DeYoung Properties
RO311, R2024-006, PDP2024-002, and TM6482

Initial Study and Mitigated Negative Declaration

October 2024

PREPARED BY:

Marissa Jensen, MA
Assistant Planner
Planning & Development Services
(559) 324-2338
marissaj@clovisca.gov

INITIAL STUDY

This Initial Study was prepared pursuant to the California Environmental Quality Act (CEQA) Public Resources Code Sections 21000 *et seq*., CEQA Guidelines Title 14, Section 15000 et seq. of the California Code of Regulations.

PROJECT TITLE:	RO311, R2024-006, PDP2024-002, and TM6482
LEAD AGENCY NAME AND ADDRESS:	City of Clovis Planning & Development Services 1033 Fifth Street Clovis, CA 93612
CONTACT PERSON AND PHONE NUMBER:	Marissa Jensen, Assistant Planner (559) 324-2338 marissaj@clovisca.gov
PROJECT LOCATION:	South of E. Behymer Avenue between N. Minnewawa Avenue and the N. Peach Avenue alignment in Clovis, CA
PROJECT SPONSOR'S NAME AND ADDRESS:	DeYoung Properties 677 W. Palmdon Drive Suite 208 Fresno, CA 93704
LAND USE DESIGNATION:	Existing – MH (Medium High Density)
ZONING DESIGNATION:	Existing – AE-20 (Fresno County, Exclusive Agricultural) Proposed – R-1-PRD (Single-Family Planned Residential Development)
PROJECT DESCRIPTION	See page 7 of this Initial Study
SURROUNDING LAND USES AND SETTING:	See pages 6 and 7 of this Initial Study
REQUIRED APPROVALS:	See page 9 of this Initial Study
HAVE CALIFORNIA NATIVE AMERICAN TRIBES REQUESTED CONSULTATION? IF SO, HAS CONSULTATION BEGUN?	Tribes did not request consultation.

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LIST OF FIGURES

A. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, as indicated by the checklist and corresponding discussion in this Initial Study.

☐ Aesthetics	☒ Agriculture & Forestry Resources	☐ Air Quality
☒ Biological Resources	☒ Cultural Resources	☐ Energy
☒ Geology & Soils	☒ Greenhouse Gas Emissions	☐ Hazards & Hazardous Materials
☐ Hydrology & Water Quality	☐ Land Use/Planning	☐ Mineral Resources
☒ Noise	☐ Population/Housing	☐ Public Services
☐ Recreation	☒ Transportation	☒ Tribal Cultural Resources
☐ Utilities & Service Systems	☐ Wildfire	☐ Mandatory Findings of Significance

Determination

On the basis of this initial evaluation:

☐ I find that the proposed Project COULD NOT have a significant effect on the environment and a NEGATIVE DECLARATION will be prepared.

☒ I find that, although the proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponents. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed Project MAY have a significant effect on the environmental, and an ENVIRONMENTAL IMPACT REPORT (EIR) will be prepared.

☐ I find that the proposed Project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environmental, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An EIR is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed Project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately analyzed in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed Project, nothing further is required.

Prepared By:

Marissa Jensen, MA, Assistant Planner
Planning & Development Services
City of Clovis

10/30/2024
Date

Approved By:

2024.10.31 08:03:33-07'00'

Renee Mathis, Director
Planning & Development Services
City of Clovis

Date

B. PROJECT OVERVIEW

Juli Kutka of DeYoung Properties (applicant) proposes to annex (RO311) and Prezone (R2024-006) the subject property from Fresno County's AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) zone district to the R-1-PRD (Single-Family Planned Residential Development) and the R-1 (Single-Family Residential) zone districts. The annexation boundary consists of ±37.92 acres, the project site is ±36.92 acres and is located south of E. Behymer Avenue, between N. Minnewawa Avenue and the N. Peach Avenue alignment in the County of Fresno, California. The Project is situated adjacent to agricultural uses designated for future residential development at varying densities. The aforementioned applications will facilitate the development of a 266-lot single-family subdivision, Tract Map 6482 (TM6482), inclusive of a Planned Development Permit (PDP2024-002) for enhanced development. The project will include site improvements (i.e., landscaping, parking, sidewalks, and utility infrastructure). The project shall be referred to throughout the document as "proposed Project" and/or "Project." Details regarding the Project and operations are described more throughout the Initial Study, beginning under Section E.

C. PROJECT LOCATION

As shown in Figure 1, the proposed ±37.92-acre annexation boundary is situated south of E. Behymer Avenue between N. Minnewawa Avenue and the N. Peach Avenue alignment. The ±36.92-acre area proposed for development herein referred to as "Project site" encompasses the majority of the annexation area with the exception of a small ±1 acre parcel situated at the southeast corner of the boundary. The proposed development will occupy the entire parcels with Accessor's Parcel Numbers (APNs) 556-010-28 and 29. APN 556-010-12 will not be incorporated as part of the proposed development but will be annexed into the City based on the need for a logical boundary per Fresno County and LAFCo's annexation requirements.

The Project is within the City's Heritage Grove planned growth area. Heritage Grove encompasses ±2,560 acres of land bounded by Willow Avenue to the west, Sunnyside Avenue to the east, Copper Avenue to the north and the Shepherd Avenue to the south. This area has been examined programmatically in the City's current General Plan EIR. This document evaluates potential environmental impacts in detail.

D. EXISTING SETTING

This section describes the existing conditions, surrounding conditions, as well as the General Plan land use and zoning designations.

1. EXISTING CONDITIONS

As shown in Figure 1 below, the Project site is primarily undeveloped with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities

2. SURROUNDING CONDITIONS

As referenced below in Table 1, and shown on Figure 1, the Project site situated adjacent to agricultural uses designated for future residential development at varying densities.

Table 1: Surrounding Land Uses

	Land Use Designation	Existing Zoning*	Existing Land Use
North	Medium High Density Residential	AE-20	Rural Residential Properties, Orchards, Undeveloped
East	Neighborhood Commercial	AE-20	Orchards
South	Medium + Medium High Density Residential	AE-20	Orchards
West	High Density Residential	R-3	Rural Residential Property, Undeveloped

*AE-20 (Exclusive Agricultural, 20-acre parcel minimum), R-3 (Multifamily High Density)

3. LAND USE DESIGNATION

As shown in Figure 2, the Project site has an existing General Plan Land Use designation of Medium High Density Residential. The Medium High Density Residential designation allows for single-family residential development at a density of 7.1-20.0 dwelling units per acre.

4. ZONING DESIGNATION

As shown in Figure 3, the Project site is currently zoned AE-20 (Exclusive Agricultural, 20-acre minimum parcel size) in the County of Fresno, however, proposes a Prezone to the Clovis R-1-PRD (Single-Family Planned Residential Development) for ±36.92 acres of the annexation area and R-1 (Single-Family Residential) Zone Districts for the remaining ±1-acre portion of the Project site. The R-1-PRD and R-1 Zone Districts are consistent with the existing Medium High Density land use designation.

E. PROJECT DESCRIPTION

The Project site is a ±37.92-acre property designated for Medium High-Density Residential development in the City of Clovis General Plan. The applicant is proposing to Prezone the project site to allow for the development of a planned single-family residential development with unique development standards. The Project proposes 266 single-family residences with a ±0.75-acre park, associated landscaping, and utility and pedestrian infrastructure. This section describes the components of the proposed Project in more detail, including site preparations, proposed structures, and on- and off-site improvements.

1. PROJECT ENTITLEMENTS

The Project would include several planning entitlements, including a prezone, vesting tentative tract map, planned development permit, and residential site plan review. The prezone is to bring the zoning into consistency with the proposed general plan land use designation, the tentative tract map is required to subdivide the property in accordance with the Subdivision Map Act and City standards, the planned development permit is to evaluate the unique development standards and enhanced development features such as architecture, landscaping, parking and additional amenities, and the residential site plan review is required to memorialize the design and layout of the homes.

2. PROJECT CONSTRUCTION AND PHASING

The Project is anticipated to begin construction in the winter of 2025 with full buildout by winter of 2029. This schedule is an estimation only and is contingent upon entitlements, and the market, among other factors.

3. SITE PREPARATION

Site preparation would include the demolition of the existing home, acessory structures, and orchards. Typical grading activities would occur to ensure an adequately graded site for drainage purposes. Part of the preparation would include the removal of any other vegetation, crops, and trees necessary to accommodate the Project. Other site preparation activities would include minor excavation for the installation of utility infrastructure, for conveyance of water, sewer, stormwater, and irrigation.

4. PROJECT COMPONENTS

This section describes the overall components of the Project, such as the proposed buildings, landscape, vehicle and pedestrian circulation, and utilities.

DEMOLITION

The existing residence, fruit orchards, and accessory structures will be demolished to accommodate the development of the Project.

SITE LAYOUT AND CIRCULATION

The Project is proposing 266 lots, ranging from ±2,090 square feet to ±8,434 square feet, with an average of ±3,682 square feet, and a 0.75-acre neighborhood park. The Project is bound by E. Behymer Avenue to the north, N. Minnewawa Avenue to the east, and the N. Peach Avenue alignment to the west. The applicant will be required to install N. Peach Avenue and upgrade N. Minnewawa and E. Behymer Avenues to City standards. Along with improvements to the surrounding streets, the applicant is also proposing a network of internal public streets. The Project would be accessed via three (3) points of ingress/egress from E. Behymer Avenue and one (1) point of shared ingress/egress from N. Peach Avenue. The installation of pedestrian paths of travel from the N. Peach, E. Behymer, and N. Minnewawa frontages would be required as part of the Project. Per the Heritage Grove Master Plan, community corner paseos are required at the corners of N. Peach and E. Behymer Avenues and N. Minnewawa and E. Behymer Avenues.

PARKING

The CMC requires that residential planned residential developments provide a minimum of two (2) covered spaces plus one (1) covered or uncovered guest space for each dwelling unit. Each garage would be required to have an interior dimension of 20 feet by 20 feet for two car garages and 10 feet by 20 feet for single-car garages. The applicant is requesting a deviation from the typical parking requirement, by only proposing one (1) covered space and one (1) uncovered space for a portion of the homes. The Planned Development Permit may adjust or modify, where necessary and justifiable, all applicable development standards. The proposed parking deviation will be reviewed thoroughly as part of the Residential Site Plan Review (RSPR) process for compliance.

LANDSCAPE

The Project would include landscape throughout the site. Landscaped areas would generally be located along the frontage of major streets, as well as in the front yard areas of each parcel, consistent with the CMC. Landscape plans are typically provided during the City's residential RSPR process at which time the proposed landscape would be reviewed for compliance with the City's water efficient landscape regulations and guidelines. As an amenity to the Project, the applicant is providing a neighborhood park (see Figure 5 for the conceptual design).

UTILITIES

Utilities for the site would consist of water, sewer, electric, cable, gas, and stormwater infrastructure. Trenching and digging activities would be required for the installation of necessary pipelines typical of development. All utility plans would be required to be reviewed and approved by the appropriate agency, and/or department to ensure that installation occurs to pertinent codes and regulations. Other infrastructure would include new fire hydrants as required by the City of Clovis Fire Department.

Utilities are provided by and managed from a combination of agencies, including the Fresno Irrigation District (FID), which provides the City's water supply which is then supplied to customers by the City of Clovis, Fresno Metropolitan Flood Control District (FMFCD) which has responsibility for storm water management, and the City's public utilities department which provides for solid waste collection, and sewer collection services. Pacific Gas & Electric (PG&E) provides electricity and natural gas within the City of Clovis.

F. REQUIRED PROJECT APPROVALS

The City of Clovis requires the following review, permits, and/or approvals for the proposed Project; however, other approvals not listed below may be required as identified throughout the entitlement process:

- Annexation
- Rezone (Prezone)
- Tentative Tract Map
- Planned Development Permit
- Residential Site Plan Review
- Grading Permit
- Building Permit
- San Joaquin Air Pollution Control District
- Fresno Metropolitan Flood Control District

G. TECHNICAL STUDIES

The analysis of the Project throughout this Initial Study relied in part on the technical studies listed below prepared for the Project, as well as other sources, including, but not limited to, the 2014 Clovis General Plan EIR, departmental staff, California Department of Conservation, and the California Department of Toxic Control Substances.

- **Appendix A:** Air Quality and Greenhouse Gas Analysis Memorandum dated August 2024
- **Appendix B:** Biological Resources Evaluation dated June 2024
- **Appendix C:** Cultural Resource Assessment dated June 24, 2024
- **Appendix D:** Water Infrastructure Investigation dated May 28, 2024
- **Appendix E:** Transportation Impact Analysis dated October 2024
- **Appendix F:** Noise and Vibration Impact Analysis dated August 2024
- **Appendix G:** California Agricultural LESA Worksheets dated May 15, 2024

Figure 1: Project Location and Existing Conditions

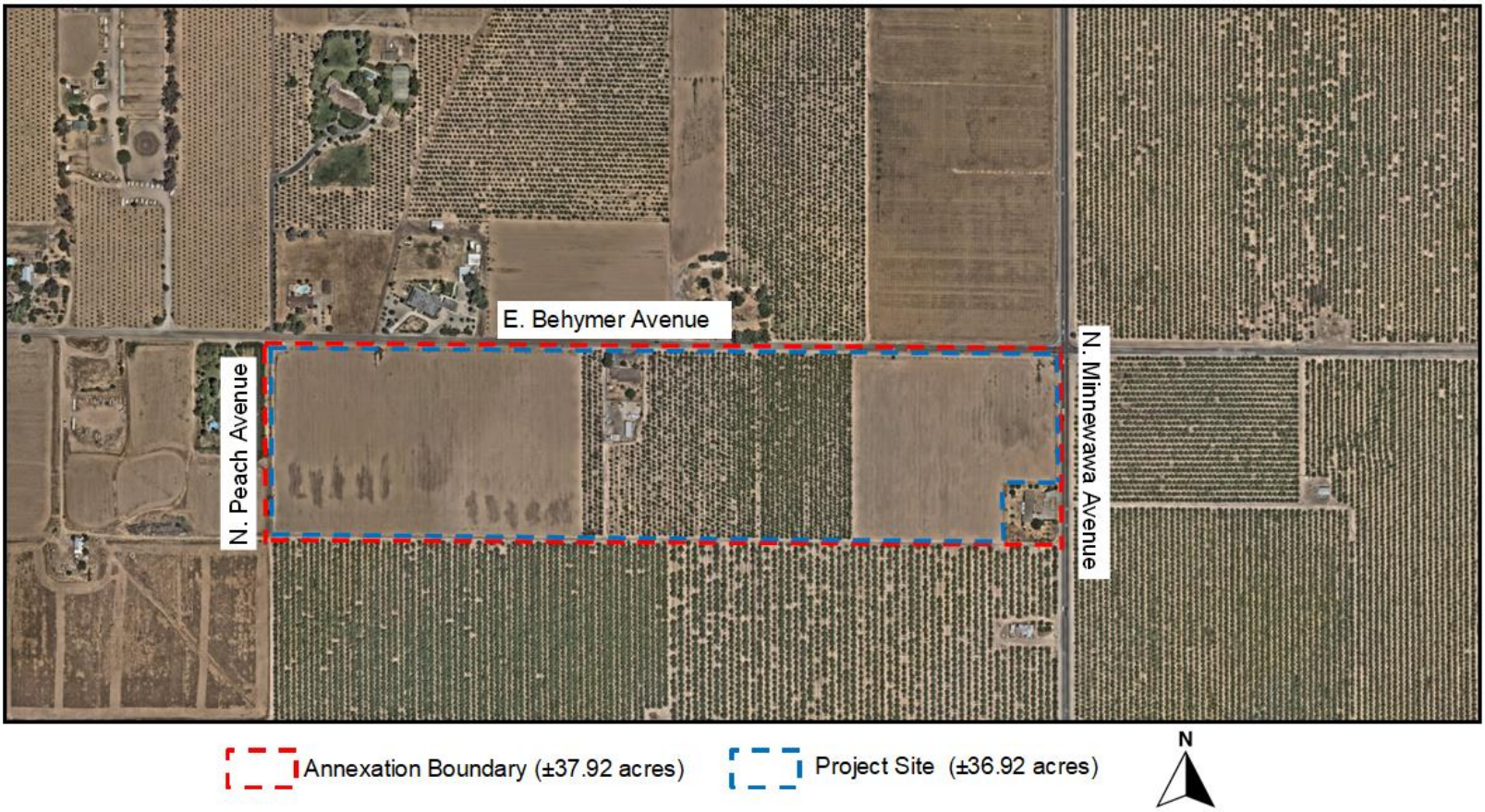

Figure 2: General Plan Land Use Designations

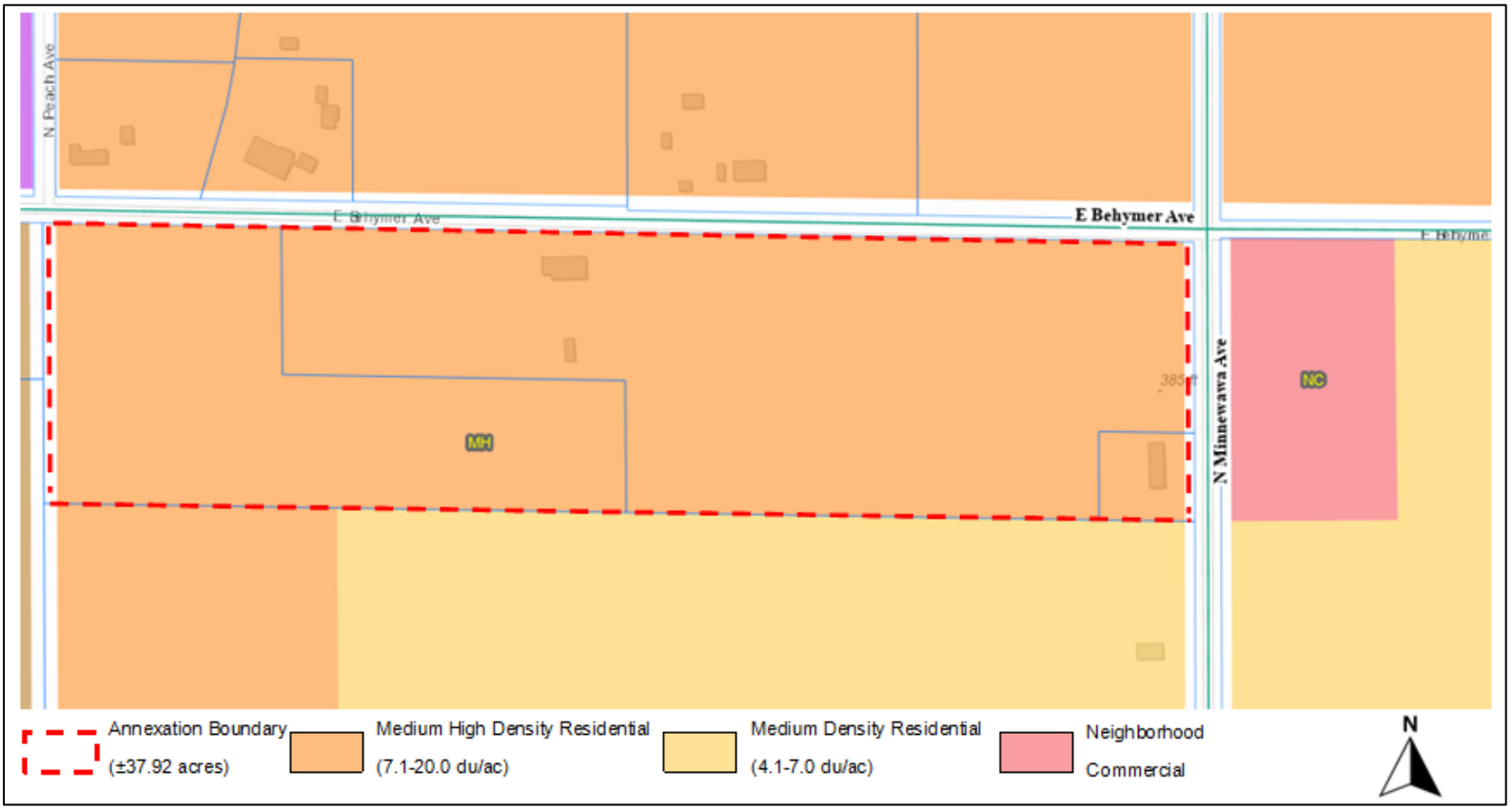

Figure 3: Current Zoning

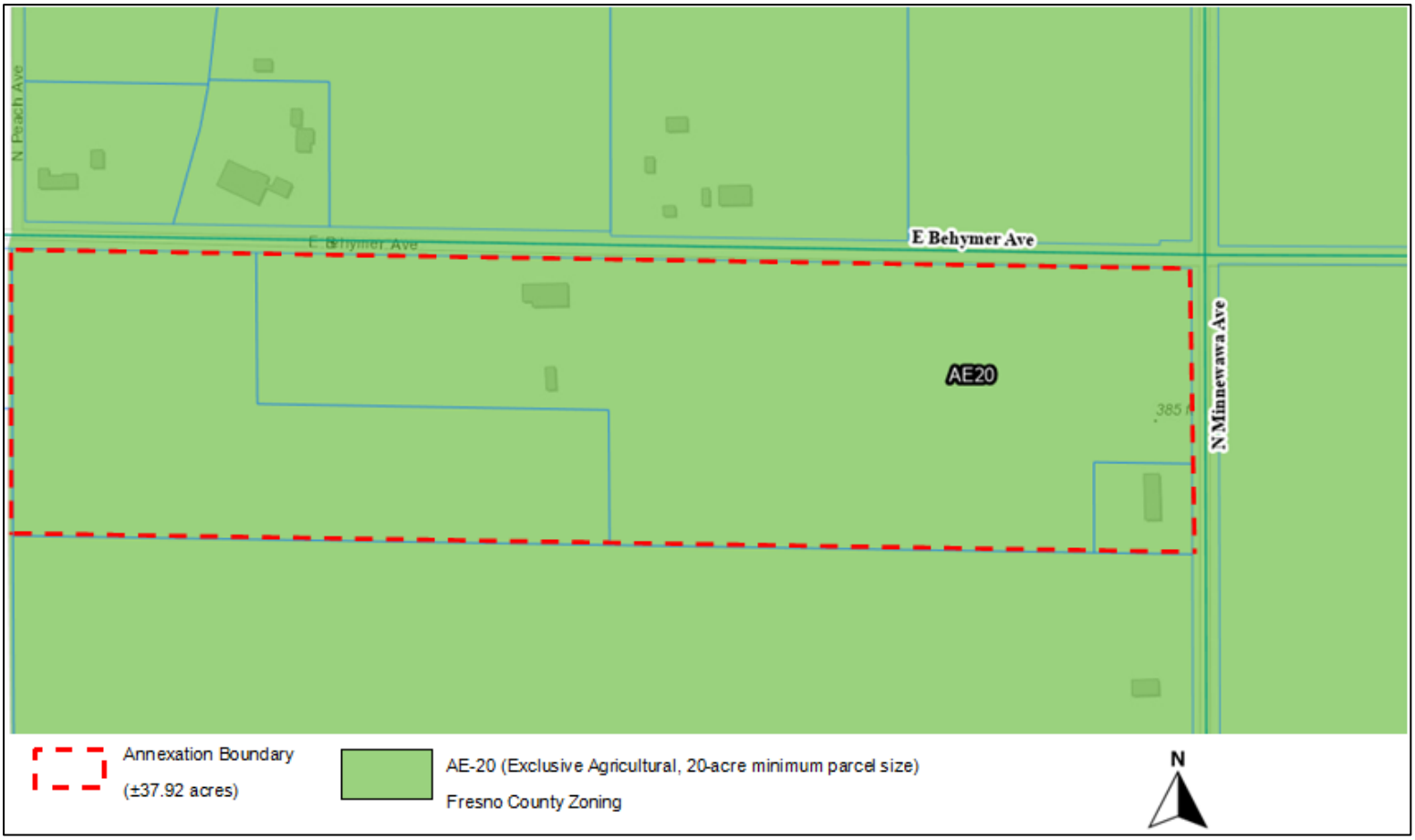

Figure 4: Conceptual Tract Map

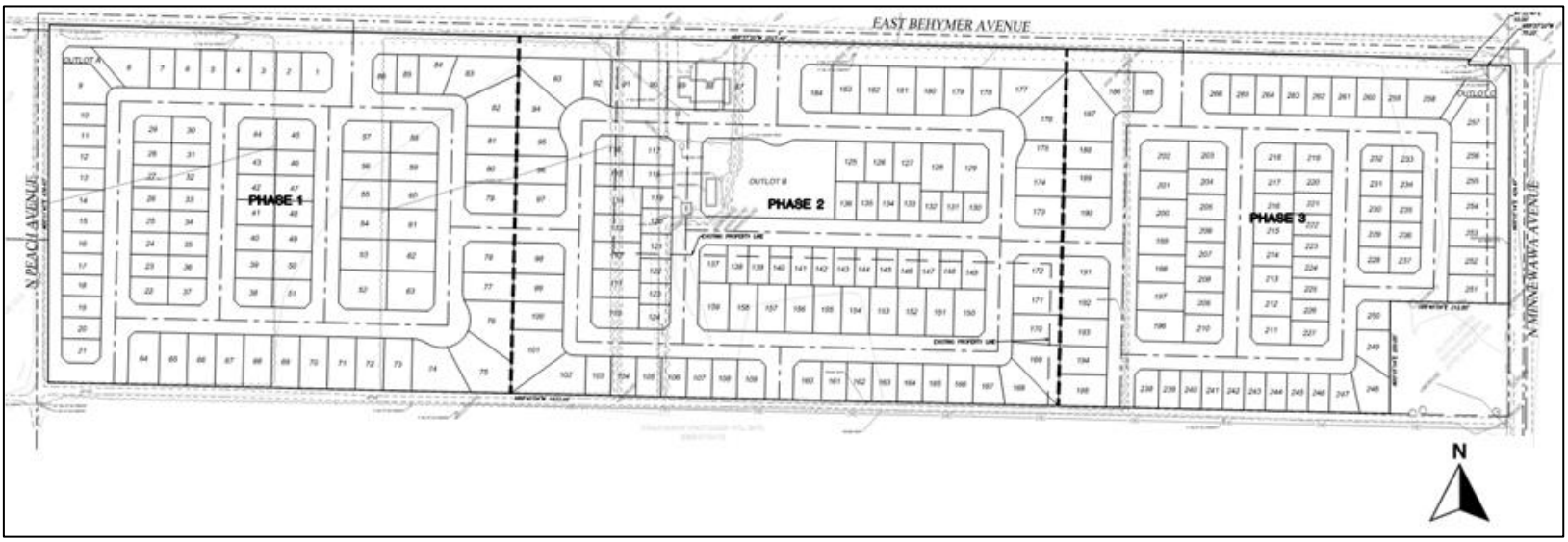

Figure 5: Conceptual Park Layout

Figure 6: Conceptual Elevations

H. ENVIRONMENTAL CHECKLIST

This section provides an evaluation of the potential environmental impacts of the proposed project and are based on CEQA Guidelines Appendix G. For each issue area, one of four conclusions is made:

- **No Impact**: No project-related impact to the environment would occur with project development.
- **Less Than Significant Impact:** The proposed project would not result in a substantial and adverse change in the environment. This impact level does not require mitigation measures.
- **Less Than Significant with Mitigation Incorporated**: The proposed project would result in an environmental impact or effect that is potentially significant, but the incorporation of mitigation measure(s) would reduce the project-related impact to a less than significant level.
- **Potentially Significant Impact**: The proposed project would result in an environmental impact or effect that is potentially significant, and no mitigation can be identified that would reduce the impact to a less than significant level**.**

1. AESTHETICS

Except as provided in Public Resources Code Section 21099, would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Have a substantial effect on a scenic vista?				X
b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				X
c. Substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?			X	
d. Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?			X	

ENVIRONMENTAL SETTING

The City of Clovis is located within the San Joaquin Valley. Thus, much of the City and its surrounding areas are predominately flat. As a result, on clear days, the Sierra Nevada Mountains are visible to the east depending on your location. Aside from Sierra Nevada, there are no officially designated focal points or viewsheds within the City. However, Policy 2.3, Visual Resources, of the Open Space Element of the 2014 Clovis General Plan, requires maintaining public views of open spaces, parks, and natural features and to preserve Clovis' viewshed of the surrounding foothills.

As mentioned above in the Project Description, the site is located south of E. Behymer Avenue between N. Minnewawa Avenue and the N. Peach Avenue alignment. In general, the Project site will be in the fringes of Clovis following annexation and is situated on a primarily undeveloped site with some orchards, a single-

family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

DISCUSSION

a) *Would the project have a substantial effect on a scenic vista?*

No Impact. As mentioned above, there are no officially designated scenic vistas or focal points in the City of Clovis. While the Sierra Nevada Mountains can be viewed on clear days the Project would allow structures to be constructed at a maximum height of 35 feet. The units will be constructed at a typical maximum height for standard single family residential zone districts. Additionally, there are no officially designated scenic vistas in the area, therefore **no impact** would occur with regards to the project having a substantial effect on a scenic vista. As a result, no mitigation measures are required.

b) *Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway?*

No Impact. As stated in the 2014 Clovis General Plan EIR, there are no Caltrans-designated scenic highways within the City of Clovis.[1] Further, there are no existing historical structures or rock outcroppings located on or within the immediate vicinity of the site, therefore, the Project would result in **no impact** with regards to substantially damaging scenic resources within a State scenic highway.

c) *Would the project substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?*

Less-Than-Significant Impact. As mentioned previously, the existing site is primarily undeveloped with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities. The Project is located within the Heritage Grove planned growth area. Although the project is proposing to convert agricultural land to residential uses, this conversion is pursuant to the 2014 General Plan. Upon completion, the project will not be consistent with the existing rural residential properties and orchards that currently exist in the surrounding area; however it will be consistent with future single-family development at Medium and Medium High Densities, per the General Plan designations.

Further, the Project would undergo the RSPR process which would ensure that the overall design and character is consistent and/or complements the surrounding areas. The RSPR process will ensure the Project complies with relevant design policies, such as in the Heritage Grove Master Plan, the CMC, and the General Plan. During the review, the height, color and materials are reviewed for consistency with these plans and guidelines. Consequently, a **less-than-significant** impact would occur with regards to substantially degrading the existing visual character of the site and its surroundings, and no mitigation measures are required.

d) *Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?*

Less-Than-Significant Impact. The Project consists of 266 single-family homes. As a result of the existing site being primarily agricultural, the Project would result in new sources of light and glare. Light and glare from

1 2014 Clovis General Plan EIR, June 2014, Page 5.1-1.

the Project would be typical of residential development, including but not limited to, sources such as exterior lighting for safety, light, and glare from vehicles or from light reflecting off surfaces such as windshields. Other sources of light would be the interior lighting of the units at night. These sources of light and glare are not typically associated with causing significant effects on the environment. Further, the site is surrounded by agricultural uses planned for single-family residences that will eventually result in similar sources and intensities of light and glare. Sources of future light and glare are comprised of streetlights, and light and glare from vehicles going to and from home.

Although the Project would introduce new sources of light and glare, the RSPR process would ensure that the design and placement of lighting is appropriate to minimize potential light and glare impacts to surrounding properties. Further, the Project would be required to comply with Section 9.22.050, Exterior Light and Glare, of the CMC, which requires light sources to be shielded and that lighting does not spillover to adjacent properties.

Overall, through the City's design review process and compliance with Section 9.22.050 of the CMC, the Project would result in a **less-than-significant impact** with regard to lighting adversely affecting day or nighttime views in the area. No mitigation measures are required.

2. AGRICULTURE AND FORESTRY RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use.		X		
b. Conflict with existing zoning for agricultural use, or a Williamson Act contract?				X
c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220 (g)) or timberland (as defined in Public Resources Code section 4526)?				X
d. Result in the loss of forest land or conversion of forest land to non-forest use?				X
e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?		X		

ENVIRONMENTAL SETTING

The site is located south of E. Behymer Avenue between N. Minnewawa Avenue and the N. Peach Avenue alignment. In general, the Project site will be in the fringes of Clovis following annexation and is situated on a

primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

DISCUSSION

a) *Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?*

Less Than Significant Impact with Mitigation. According to the California Important Farmland finder interactive map from the California Department of Conservation,[2] the Project site is considered Prime Farmland (2020 data), which is defined by the Department of Conservation as farmland with the best combination of physical and chemical features able to sustain long term agricultural production. This land has the soil quality, growing season, and moisture supply needed to produce sustained high yields. The Project would develop ±36.92 acres with 266 single-family homes. Therefore, development of the proposed Project would result in the conversion of Prime Farmland to a non-agricultural use.

The City of Clovis 2014 General Plan identifies that the 2035 buildout of the General Plan would result in significant unavoidable impacts related to conversion of Prime Farmland, Unique Farmland, and Farmland of Statewide importance. Thus, the potential impacts associated with the conversion of farmlands as described above were evaluated in conjunction with the General Plan EIR. This initial study relies on the General Plan EIR through the tiering concept (Section 15152 of the CEQA Guidelines) with regard to the analysis of potential farmland conversion impacts associated with the Project. As stated in the General Plan EIR, City policies seek to preserve the agricultural legacy of Clovis by facilitating thoughtful conversion of farmland and supporting "right to farm" and regional conservation efforts. Therefore, with the inclusion of the following Mitigation Measure, impacts in this category will be reduced to a **less than significant impact with mitigation**.

> Mitigation Measure AGR-1: The Project applicant shall prepare or fund an agricultural resource evaluation prior to project approval. The resource evaluation shall use generally accepted methodologies (such as the Land Evaluation and Site Assessment Model) to identify the potentially significant impact of the loss of agricultural land. If the loss of agricultural land is determined to be a potentially significant impact, the resource evaluation shall consider the economic viability of future agricultural use of the property. If the agricultural resource is considered significant and future agricultural use is considered economically viable, the conversion will be deemed significant. The City shall require mitigation by one of the following methods:
>
> - Mitigation at a 1:1 ration of converted to preserved acreage through a regional conservation easement, or payment of its valuation equivalent if a fee mitigation program is established. If 1:1 mitigation is determined to be economically infeasible, based upon all of the evidence, the ratio may be reduced to an economically feasible ratio or no further mitigation shall be required. This determination shall be made by the City's Director of Planning and Development Services based upon substantial evidence in the record; or
>
> - Other potential mitigation which achieves the same mitigating effect as the measures identified above, consistent with the CEQA Statutes and Guidelines. This determination shall be made by

2 Farmland Mapping, California Department of Conservation, Interactive mapping tool (https://maps.conservation.ca.gov/DLRP/CIFF/).

the City's Director of Planning and Development Services based upon substantial evidence in the record.

The Project site is not designated for farming-related activities under the 2014 General Plan as such would be consistent with the planned growth of the Heritage Grove area and as identified in the General Plan EIR the conversion of farmlands of importance cannot be mitigated. Consequently, because the Project would not result in unplanned impacts to important farmland, a **less than significant impact with mitigation** would occur.

b) *Would the project conflict with existing zoning for agricultural use, or a Williamson Act Contract?*

No Impact. As shown in Figure 5.2-2 of the Agricultural Resources Chapter of the 2014 Clovis General Plan EIR, the Project site is not under a Williamson Act Contract. Further, the site is not currently zoned or designated for agricultural use. As a result, the Project would have **no impact** with regards to conflicting with existing zoning for agricultural use or a Williamson Act Contract.

c) *Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220 (g)) or timberland (as defined in Public Resources Code section 4526)?*

No Impact. The Project site does not contain forest land. Further, the site is not zoned for forestry or other forestry related uses. As a result, **no impact** would occur with regards to conflicts with existing zoning for, or cause rezoning of, forest land.

d) *Would the project result in the loss of forest land or conversion of forest land to non-forest use?*

No Impact. See discussion under Section 2c.

e) *Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?*

Less Than Significant Impact with Mitigation. Although the Project site for development of 266-single family homes contains Prime Farmland according to the Department of Conservation, the site is not designated for agricultural uses, see discussion in Section 2a. The 2014 Clovis General Plan designates the Project site for residential uses. The Project annexation area is located within the Heritage Grove area which is planned to be converted to non-agricultural land pursuant to the 2014 General Plan. However, given that the development within the annexation area would be phased over time, some adjacent agricultural uses would continue to operate until other projects are proposed to be constructed. The City's General Plan contains policies to aid in the preservation of agricultural land, including Policies 2.4 and 2.5 of the General Plan's Open Space and Conservation Element. As such Mitigation Measure AG-2 would be implemented to ensure notification of Right-To Farm to future residents of the Project site, such that residents would be prepared to accept inconveniences and discomfort associated with normal farm activities on parcels adjacent to the Project site. Issuance of Right-to-Farm notifications would prevent agricultural operations from being the subject of nuisance complaints and being forced to cease or curtail operations. The Project site is not designated for forest or timberland. With implementation of Mitigation Measure AG-2, the proposed Project would not result in conversion of farmland to non-agricultural use, and the impact would be **less-than-significant impact with mitigation**.

Mitigation Measure AGR-2: Pursuant to Clovis Municipal Code Section 9.40.170 and the California Civil Code Section 3482.5, prior to approval of building occupancy permits the Project developer shall

provide residents of the Project site Right-To-Farm notifications. The Right-To-Farm notification would advise future occupants of the Project site that they are residing adjacent to agricultural land that has been active for three or more years and that they should expect continued activities associated with agricultural production.

3. AIR QUALITY

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Conflict with or obstruct implementation of the applicable air quality plan?		X		
b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?			X	
c. Expose sensitive receptors to substantial pollutant concentrations?			X	
d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?			X	

ENVIRONMENTAL SETTING

An Air Quality and Greenhouse Gas Analysis Memorandum (AQ/GHG Memo) was prepared by LSA Associates Inc. (LSA) in August of 2024 (see Appendix A). Information in this AQ/GHG Memo is used for the analysis included in both the Air Quality and Greenhouse Gas Emissions section of this Initial Study.

San Joaquin Valley Air Basin

The City of Clovis (City) is in the central portion of the San Joaquin Valley Air Basin (SJVAB). SJVAB consists of eight counties: Fresno, Kern (western and central), Kings, Tulare, Madera, Merced, San Joaquin, and Stanislaus. The SJVAB is approximately 25,000 square miles. It is bordered by the Sierra Nevada in the east, the Coast Ranges in the west, and the Tehachapi mountains in the south. The valley is topographically flat with a slight downward gradient to the northwest. The valley opens to the sea at the Carquinez Straits where the San Joaquin-Sacramento Delta empties into San Francisco Bay.

Topography

The topography of a region is important for air quality because mountains can block airflow that would help disperse pollutants and can channel air from upwind areas that transports pollutants to downwind areas. The San Joaquin Valley Air Pollution Control District (SJVAPCD) covers the entirety of the SJVAB. The SJVAB is generally shaped like a bowl. It is open in the north and is surrounded by mountain ranges on all other sides. The Sierra Nevada mountains are along the eastern boundary (8,000 to 14,000 feet in elevation), the Coast Ranges are along the western boundary (3,000 feet in elevation), and the Tehachapi Mountains are along the southern boundary (6,000 to 8,000 feet in elevation).

Climate

The SJVAB is in a Mediterranean climate zone and is influenced by a subtropical high-pressure cell most of the year. Mediterranean climates are characterized by sparse rainfall, which occurs mainly in winter. Summers are hot and dry. Summertime maximum temperatures often exceed 100°F in the valley.

The subtropical high-pressure cell is strongest during spring, summer, and fall and produces subsiding air, which can result in temperature inversions in the valley. A temperature inversion can act like a lid, inhibiting vertical mixing of the air mass at the surface.

Any emissions of pollutants can be trapped below the inversion. Most of the surrounding mountains are above the normal height of summer inversions (1,500–3,000 feet).

Winter-time high pressure events can often last many weeks, with surface temperatures often lowering into the 30°F. During these events, fog can be present, and inversions are extremely strong. These wintertime inversions can inhibit vertical mixing of pollutants to a few hundred feet.

Ambient Air Quality Standards

The Clean Air Act (CAA) was passed in 1963 by the US Congress and has been amended several times. The 1970 CAA amendments strengthened previous legislation and laid the foundation for the regulatory scheme of the 1970s and 1980s. In 1977, Congress again added several provisions, including nonattainment requirements for areas not meeting National Air Quality Standards (AAQS) and the Prevention of Significant Deterioration program. The 1990 amendments represent the latest in a series of federal efforts to regulate the protection of air quality in the United States. The CAA allows states to adopt more stringent standards or to include other pollution species. The California Clean Air Act, signed into law in 1988, requires all areas of the state to achieve and maintain the California AAQS by the earliest practical date. The California AAQS tend to be more restrictive than the National AAQS, based on even greater health and welfare concerns.

These National and California AAQS are the levels of air quality considered to provide a margin of safety in the protection of the public health and welfare. They are designed to protect “sensitive receptors,” those most susceptible to further respiratory distress, such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed.

Both California and the federal government have established health based AAQS for six air pollutants. As shown in Table 3, Ambient Air Quality Standards for Criteria Pollutants, these pollutants are carbon monoxide (CO), ozone (O_3), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), lead (Pb), and suspended particulate matter ($PM_{2.5}$ and PM_{10}). In addition, the state has set standards for sulfates and hydrogen sulfide. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety.

In addition to the criteria pollutants, toxic air contaminants (TACs) are another group of pollutants of concern. TACs are injurious in small quantities and are regulated despite the absence of criteria documents. The identification, regulation and monitoring of TACs is relatively recent compared to that for criteria pollutants. Unlike criteria pollutants, TACs are regulated based on risk rather than specification of safe levels of contamination.

Attainment Status

The air quality management plans prepared by SJVAPCD provide the framework for SJVAB to achieve attainment of the state and federal AAQS through the State Implementation Plan. Areas are classified as attainment or nonattainment areas for pollutants, depending on whether they meet the ambient air quality standards. Nonattainment areas are imposed with additional restrictions as required by the United States Environmental Protection Agency. There are different classifications for attainment and the severity classifications for ozone nonattainment range in magnitude from marginal, moderate, and serious to severe and extreme. These classifications are used as a foundation to create air quality management strategies to improve air quality and comply with the National AAQS.

Table 2: Air Quality Attainment Status for Fresno County

Pollutant	State	Federal
Ozone (1-hour)	Sever/Nonattainment	Not Applicable
Ozone (8-hour)	Nonattainment	Extreme Nonattainment
PM_{10}	Nonattainment	Attainment (Maintenance)
$PM_{2.5}$	Nonattainment	Nonattainment
Carbon Monoxide	Attainment	Attainment (Maintenance)
Nitrogen Dioxide	Attainment	Unclassified/Attainment
Lead	Attainment	Unclassified/Attainment
Sulfur Dioxide	Attainment	Unclassified
Sulfates	Attainment	No Federal Regulation
Hydrogen Sulfide	Unclassified	No Federal Regulation

DISCUSSION

a) *Would the project conflict with or obstruct implementation of the applicable air quality plan?*

Less-Than-Significant Impact With Mitigation. In general, regional air quality impacts and attainment of standards are the result of the cumulative impacts of all emission sources within the air basin. Thus, individual projects are generally not large enough to contribute measurably to an existing violation or air quality standards alone. Although the CEQA Guidelines indicate that a significant impact would occur if the Project were to conflict with or obstruct implementation of the applicable air quality plan, the SJVAPCDs 2015 Guide for Assessing and Mitigating Air Quality Impacts (GAMAQI) does not provide specific guidance on analyzing conformity with the plan. Thus, for purposes of analyzing this potential impact, the AQ/GHG Report considered impacts based on: (1) Conflict with or obstruct implementation of the applicable air quality plan; (2) Result in a cumulatively considerable net increase if any criteria pollutant for which the project region nonattainment under an applicable federal or state ambient air quality standard: (3) Expose sensitive receptors to substantial pollutant concentrations; and (4) Result in other emissions such as those lead to odors adversely affecting a substantial number of people.[3]

The San Joaquin Valley Air Board (SJVAB) is designated as non-attainment for O_3 and $PM_{2.5}$ for federal standards and non-attainment for O_3, PM_{10}, and $PM_{2.5}$ for State standards. Construction of the proposed project would not result in the generation of criteria air pollutants that would exceed SJVAPCD thresholds of significance. In addition to the construction period thresholds of significance, the SJVAPCD has implemented Regulation VIII measures for dust control during construction. These control measures are intended to reduce the amount of PM_{10} emissions during the construction period.

Mitigation Measure AIR-1: Consistent with San Joaquin Valley Air Pollution Control District (SJVAPCD) Regulation VIII (Fugitive PM_{10} Prohibitions), the following controls are required to be included as specifications for the proposed project and implemented at the construction site:

- All disturbed areas, including storage piles, which are not being actively utilized for construction purposes, shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant or covered with a tarp or other suitable cover or vegetative ground cover.

- All on-site unpaved roads and off-site unpaved access roads shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant.

3. Air Quality and Greenhouse Gas Analysis Report by LSA Associates Inc. (LSA) in August of 2024

- All land clearing, grubbing, scraping, excavation, land leveling, grading, cut and fill, and demolition activities shall be effectively controlled of fugitive dust emissions utilizing application of water or by presoaking.

- When materials are transported off site, all material shall be covered, or effectively wetted to limit visible dust emissions, and at least 6 inches of freeboard space from the top of the container shall be maintained.

- All operations shall limit or expeditiously remove the accumulation of mud or dirt from adjacent public streets at the end of each workday. (The use of dry rotary brushes is expressly prohibited except where preceded or accompanied by sufficient wetting to limit the visible dust emissions. Use of blower devices is expressly forbidden).

- Following the addition of materials to, or the removal of materials from, the surface of outdoor storage piles, said piles shall be effectively stabilized of fugitive dust emissions utilizing sufficient water or chemical stabilizer/suppressant.

Construction emissions associated with the proposed project have a **less-than-significant impact with mitigation** implemented.

b) *Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?*

Less-Than-Significant Impact. See discussion under Section 3a above.

c) *Would the project expose sensitive receptors to substantial pollutant concentrations?*

Less-Than-Significant Impact. Sensitive receptors are generally considered to include children, the elderly, and persons with pre-existing respiratory and cardiovascular illness. The SJVAPCD considers a sensitive receptor a location that houses or attracts children, the elderly, or people with illnesses. Examples of these receptors are considered to be hospitals, residences, schools and school facilities, daycare facilities, and convalescent facilities. The nearest sensitive receptors to the Project site would be the residences located approximately 75 feet west and 100 feet north of the project site.

Based the AQ/GHG Report, an evaluation of nearby land uses shows the maximum cancer risk for the residential receptor would be 9.92 in one million, which would not exceed the SJVAPCD cancer risk threshold of 20 in one million. The worker receptor risk would be lower at 6.02 in one million and the school receptor risk would be 0.24 in one million, which would also not exceed the SJVAPCD cancer risk thresholds. The total chronic hazard index would be 0.010 for the residential receptor MEI and worker receptor MEI and less than 0.001 for the school receptor MEI, which are all below the threshold of 1.0. In addition, the total acute hazard index would be nominal (0.000), which would also not exceed the threshold of 1.0. Therefore, construction of the proposed project would not exceed SJVAPCD thresholds and would not expose nearby sensitive receptors to substantial pollutant concentrations. No significant health risk would occur from project construction emissions. Additionally, compliance with SJVAPCD rules would further limit doses and exposures, reducing potential health risk related to vehicle and equipment emissions to a level that is not significant. Once the proposed project is constructed, it would not be a source of substantial emissions. Therefore, a **less-than-significant** impact would occur with no mitigation measures.

d) *Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?*

Less-Than-Significant Impact. Generally, sources considered to emit odors are associated with wastewater treatment facilities, sanitary landfills, petroleum refineries, chemical manufacturing, and other industrial/manufacturing related uses. During project construction, some odors may be present due to diesel exhaust. However, these odors would be temporary and limited to the construction period. The proposed uses are not anticipated to emit any objectionable odors. Any odors in general would be confined mainly to the project site and would readily dissipate. Therefore, the proposed project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. Thus, a **less-than-significant** impact would occur with no mitigation measures.

4. BIOLOGICAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?		X		
b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?				X
c. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				X
d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				X
e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				X
f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				X

ENVIRONMENTAL SETTING

A Biological Resources Evaluation (BRE) was prepared by LSA in June 2024 (see Appendix B). This BRE included a literature review, records search, and field survey on May 1, 2024, to identify the existence and potential for occurrence of sensitive or special-status plant and animal species in the project vicinity. The Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and

accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities

DISCUSSION

a) *Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?*

Less-Than-Significant Impact With Mitigation. As described in the BRE, is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site comprises of an existing single-family residence and no natural plant communities occur in the area of the Project site.[4] No special-status wildlife species or diagnostic signs of special-status wildlife species were present on the Project site, however, may be marginally suitable for isolated habitat for several regionally occurring special-status species (Swainson's hawk). Mature trees on the site could provide suitable nesting habitat for tree-nesting species. During the May 1, 2024 survey of the site, there were no signs indicating occupation by these species.

Implementation of mitigation measures BIO-1, BIO-2, and BIO-3 would ensure that a **less-than-significant impact with mitigation** occurs.

Mitigation Measure BIO-1: **Pre-Activity Surveys for Swainson's Hawk Nests.** If Project activities must occur during the nesting season (February 15 to August 31), pre-activity surveys shall be conducted for Swainson's hawk nests within 14 days prior to the start of construction. The surveys would be conducted within the Project site plus a 0.5-mile buffer. The survey shall be conducted in accordance with the methodology outlined in existing protocols. Note that Sawinson's hawks may establish a nest at any time from February through June; multiple Swainson's hawks nest surveys may be necessary in one season at the direction of a qualified biologist, depending on the timing of Project construction. If no Swainson's hawk nests are found, no further action is required.

Mitigation Measure BIO-2: **Swainson's Hawk Nest Avoidance.** If an active Swainson's hawk nest is discovered at any time within 0.5 mile of active construction, a qualified biologist shall complete an assessment of the potential for current construction activities to impact the nest. The assessment shall consider the type of construction activities to impact the nest. The assessment shall consider the type of construction activities, the location of construction relative to the nest, the visibility of construction activities from the nest location, and other existing disturbances in the area that are not related to construction activities of this Project. Based on this assessment, the biologist shall determine if construction activities can proceed and if nest monitoring will be required. At a minimum, construction activities shall not occur within 100 feet of an active nest and shall require monitoring if within 500 feet of an active nest. These buffers may need to increase depending on the sensitivity of the nest location.

Mitigation Measure BIO-3: **Pre-Activity Nesting Bird Surveys.** If Project activities must occur during the nesting season (February 15 to August 31), pre-activity nesting bird surveys shall be conducted no more than 7 days prior to the start of construction at the construction site plus a 250-foot buffer for songbirds and a 500-foot buffer for raptors (other than Swainson's hawk). If no active nests are found, no further action is required; however, note that nests may become active at any time throughout the summer, including when construction activities are occurring. If active nests are found during the

4 Biological Resources Evaluation prepared by LSA, June 2024.

survey or at any time during Project construction, an avoidance buffer ranging from 50 feet to 350 feet shall be required, as determined by a qualified biologist. The avoidance buffer shall remain in place until the biologist has determined that the young are no longer reliant on the nest. Work may occur within the avoidance buffer under the approval and guidance of the biologist. The biologist shall have the ability to stop construction if nesting adults show signs of distress.

Project impacts to special-status species will be reduced to a **less-than-significant impact with mitigation** implemented.

b) *Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?*

No Impact. There are no sensitive natural communities present. Therefore, the Project would have **no impacts** to sensitive natural communities and no measures are required.

c) *Would the project have a substantial adverse effect on state or federally protected wetlands as (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?*

No Impact. No jurisdictional aquatic resources are present on the Project site. **No impacts to** jurisdictional resources would occur with construction of the Project and no measures are required.

d) *Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?*

No Impact. The BRE did not identify the site as a regional or local wildlife movement corridors,[5] thus, **no impact** would occur.

e) *Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?*

No Impact. The Project is not located within the boundaries of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved habitat conservation plan. Development of the Project would not conflict with any habitat conservation plan; therefore, **no impact** would occur and no mitigation measures are required.

f) *Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural community Conservation Plan, or other approved local, regional, or state habitat conservation plan?*

No Impact. The City and Fresno County currently do not have a regional Natural Community Conservation Plan or a Habitat Conservation Plan. The Project site is subject to relevant biological resource policies of the 2014 General Plan. Therefore, there are no impacts to conservation plans. Overall, **no impact** would occur.

5. CULTURAL RESOURCES

Would the project:	Potentially Significant	Less Than Significant With Mitigation	Less Than Significant	No Impact

5 Biological Resources Evaluation prepared by LSA, June 2024, page 3.

	Impact	Incorporated	Impact	
a. Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?		X		
b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?		X		
c. Disturb any human remains, including those interred outside of formal cemeteries?		X		

ENVIRONMENTAL SETTING

The Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

A Cultural Resource Assessment (Cultural Study) was prepared by Peak & Associates, Inc. dated June 24, 2024 (see Appendix C). This cultural assessment included a records search at the California Historical Resources Information System (CHRIS) Southern San Joaquin Valley Information Center (SSJVIC), Native American Heritage Commission's (NAHC) Sacred Lands File, desktop archival research, as well as a pedestrian survey of the Project site.

In addition to the Cultural Study, City staff conducted Native American Consultation in compliance with Assembly Bill 52 (AB52). In compliance with AB52, invitations for consultation were mailed on July 11, 2024 which affords Native tribes thirty (30) days to respond and to request consultation. During this timeframe, no requests for consultations were received.

DISCUSSION

a) *Would the project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?*

Less-Than-Significant Impact With Mitigation. As previously mentioned, the Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities. A cultural resource records search was conducted for the Area of Potential Effects (APE) and a 0.25-mile radius at the SSJVIC on May 13, 2024. The search indicated that no prehistoric sites were found during the survey, there is a slight possibility that a site may exist and be totally obscured by vegetation, fill or other historic activities, leaving no surface evidence. Should artifacts or unusual amounts of stone, bone, or shell be uncovered during construction activities, an archeologist should be consulted for on-the spot evaluation of the finding.[6] Further, compliance with Policy 2.9 of the General Plan, which calls for the preservation of historical sites and buildings of state or national significance, would ensure that if there were historical resources present, they would be protected. Because there is the slight possibility for the accidental or inadvertent uncovering of archaeological resources during construction, Mitigation Measure CULT-1 would serve to reduce those potential impacts by requiring any work to stop until any found artifacts can be properly removed and inventoried by a qualified archaeologist. Therefore, regarding the Project causing a substantial adverse

6 Cultural Resource Assessment by Peak & Associates, June 24, 2024, pages 11-12.

change in the significance of a historical resource the Project would result in a **less-than-significant impact with mitigation.**

> Mitigation Measure CULT-1: If prehistoric or historic-era cultural or archaeological materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards for prehistoric and historic archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.
>
> If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.
>
> If a potentially eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met.

b) *Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?*

Less-Than-Significant Impact With Mitigation. The Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities. The site's ground has been previously disturbed as a result of the agriculture, single-family residence and other ground disturbing activities throughout the years. Nevertheless, the potential remains that archeological resources could be inadvertently or accidentally uncovered during ground-disturbing activities such as trenching, digging, and the installation of utilities and other infrastructure.

Because there is the slight possibility for the accidental or inadvertent uncovering of archaeological resources during construction, Mitigation Measure CULT-1 would serve to reduce those potential impacts by requiring any work to stop until any found artifacts can be properly removed and inventoried by a qualified archaeologist. Therefore, the Project would result in a **less-than-significant impact with mitigation**.

c) *Would the project disturb any human remains, including those interred outside of formal cemeteries?*

Less-Than-Significant Impact With Mitigation. The Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities The site's ground has been previously disturbed as a result of the agriculture, and residential uses and other ground disturbing activities throughout the years. Nevertheless, the potential remains that human remains could be inadvertently or accidentally uncovered during ground-disturbing activities such as trenching, digging, and the installation of utilities and other infrastructure.

Because there is the slight possibility for the accidental or inadvertent uncovering of human remains during construction, Mitigation Measure CULT-2 would serve to reduce those potential impacts by requiring any work

to stop until any found human remains can be properly removed by the County coroner and/or tribes. Therefore, the Project would result in a **less-than-significant impact with mitigation**.

> Mitigation Measure CULT-2: If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code. The specific protocol, guidelines, and channels of communication outlined by the Native American Heritage Commission, in accordance with Section 7050.5 of the Health and Safety Code, Section 5097.98 of the Public Resources Code (Chapter 1492, Statutes of 1982, Senate Bill 297), and Senate Bill 447 (Chapter 44, Statutes of 1987), shall be followed. Section 7050.5(c) shall guide the potential Native American involvement, in the event of discovery of human remains, at the direction of the County coroner. All reports, correspondence, and determinations regarding the discovery of human remains on the project site shall be submitted to the Lead Agency.

6. ENERGY

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?			X	
b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			X	

ENVIRONMENTAL SETTING

The Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

DISCUSSION

a) *Would the project result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?*

Less-Than-Significant Impact. The Project proposes the construction of 266 single-family homes on ±36.92 acres, along with associated landscape, hardscape, and infrastructure (i.e., drive aisles, utilities, etc.). The Project would include construction activities typical of residential development, thus, is not generally considered the type of use or intensity that would result in the unnecessary consumption of energy. The units themselves would comply with Title 24 Green Building Standards for energy efficiency, as well as be required to comply with the latest water efficient landscape policy regulations, and California Building Code. Further, the Project would be required to comply with Clovis 2014 General Plan Policy 3.4, and 3.7 of the Open Space and Conservation, which call for the use of water conserving and drought tolerant landscape, as well as energy efficient buildings. Consequently, compliance with these measures would ensure that the Project does not result in a significant impact due to the unnecessary consumption of energy and **less-than-significant** impact would occur with no mitigation measures.

b) *Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?*

Less-Than-Significant Impact. See discussion under Section 6a above.

7. GEOLOGY AND SOILS

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?			X	
ii. Strong seismic ground shaking?			X	
iii. Seismic-related ground failure, including liquefaction?			X	
iv. Landslides?			X	
b. Result in substantial soil erosion or the loss of topsoil?			X	
c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?			X	
d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?				X
e. Have soils incapable of adequately supporting the use of septic tanks or alternative waste disposal systems where sewers are not available for the disposal of wastewater?				X
f. Directly or indirectly destroy a unique paleontological resource or unique geologic feature?		X		

ENVIRONMENTAL SETTING

The 2014 Clovis General Plan EIR identified no geologic hazards or unstable soil conditions known to exist on the Project site.

DISCUSSION

a) *Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?; ii) Strong seismic ground shaking?; iii) Seismic-related ground failure, including liquefaction?; iv) Landslides?*

Less-Than-Significant Impact. Although the Project site does not have any known faults on the site, the potential remains that seismic ground-shaking could occur from the fault located east of the Project. However, adherence to the most current California Building Codes would ensure that the structures are constructed safely and in compliance with the appropriate building codes. With regards to liquefaction, the 2014 General Plan EIR states that the soil types in the area are not considered conducive to liquefaction due to their high clay content or from being too coarse.[7] Further, the site is generally flat and therefore landslides would not occur at the Project site. Overall, due to the location away from a known fault, adherence to the most recent California Building Codes, and the flat topography, a **less-than-significant impact** would occur with regards to potential impacts from seismic activity.

b) *Would the project result in substantial soil erosion or the loss of topsoil?*

Less-Than-Significant Impact. Although the site is relatively flat, grading activities would be required to ensure a flat and graded surface prior to construction, which may result in the soil erosion and loss of topsoil. However, as part of the Project, grading plans are required to be submitted and approved by the Engineering Division to ensure appropriate grading of the site. Thus, this review and approval process would ensure that a **less-than-significant** impact occur and no mitigation measures are required.

c) *Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?*

Less-Than-Significant Impact. See discussion under Section 7a.

d) *Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating direct or indirect substantial risks to life or property?*

No Impact. According to the 2014 Clovis General Plan EIR, expansive soils are mostly present in areas along the northern edge of the non-Sphere of Influence (SOI) and the easternmost part of the Clovis non-SOI plan area. Because the Project is not within the vicinity of these areas, there would be no potential for creating direct or indirect substantial risks to life or property with regards to expansive soils. As a result, **no impact** would occur.

e) *Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste disposal systems where sewers are not available for the disposal of wastewater?*

No Impact. The Project does not propose the use of septic tanks; therefore, **no impact** would occur.

7 2014 Clovis General Plan EIR, Chapter 5: Geology and Soils, page 5.6-3.

f) *Would the project directly or indirectly destroy a unique paleontological resource or unique geologic feature?*

Less-Than-Significant Impact With Mitigation. The Project site has been previously disturbed, as well as the immediately surrounding areas with no known occurrences of the discovery of paleontological resources. In addition, the BRE concluded that the potential for uncovering of subsurface deposits is unlikely. Nevertheless, the possibility remains that the inadvertent or accidental discovery could occur during ground disturbing construction activities. However, Mitigation Measure GEO-1, below, would serve to protect the accidental discovery of paleontological resources. As such, a **less-than-significant with mitigation** impact would occur.

> Mitigation Measure GEO-1: If prehistoric or historic-era cultural materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist and/or paleontologist, meeting the Secretary of the Interior's Professional Qualification Standards for prehistoric and historic archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.
>
> If the qualified professional determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.
>
> If a potentially eligible resource is encountered, then the qualified professional archaeologist and/or paleontologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met.

8. GREENHOUSE GAS EMISSIONS

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	X			
b. Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?	X			

ENVIRONMENTAL SETTING

Gases that trap heat in the atmosphere are referred to as greenhouse gases (GHGs) because they capture heat radiated from the sun as it is reflected into the atmosphere. The accumulation of GHG's has been implicated as a driving force for global climate change. Definitions of climate change vary between and across regulatory authorities and the scientific community, but in general can be described as the changing of the

earth's climate caused by natural fluctuations and anthropogenic activities which alter the composition of the global atmosphere.

Individual projects contribute to the cumulative effects of climate change by emitting GHGs during construction and operational phases. The principal GHGs are carbon dioxide, methane, nitrous oxide, ozone, and water vapor. While the presence of the primary GHGs in the atmosphere are naturally occurring, carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O) are largely emitted from human activities, accelerating the rate at which these compounds occur within earth's atmosphere. Carbon dioxide is the "reference gas" for climate change, meaning that emissions of GHGs are typically reported in "carbon dioxide-equivalent" measures. Emissions of carbon dioxide are largely by-products of fossil fuel combustion, whereas methane results from off-gassing associated with agricultural practices and landfills. Other GHGs, with much greater heat-absorption potential than carbon dioxide, include hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride, and are generated in certain industrial processes.

There is international scientific consensus that human-caused increases in GHGs have and will continue to contribute to global warming, although there is uncertainty concerning the magnitude and rate of the warming. Potential global warming impacts in California may include, but are not limited to, loss in snowpack, sea level rise, more extreme heat days per year, more high ozone days, more large forest fires, and more drought years. Secondary effects are likely to include a global rise in sea level, impacts to agriculture, changes in disease vectors, and changes in habitat and biodiversity.

In 2005, in recognition of California's vulnerability to the effects of climate change, Executive Order S-3-05 was signed. The order sets forth a series of target dates by which statewide emission of GHGs would be progressively reduced, as follows: by 2010, reduce GHG emissions to 2000 levels; by 2020, reduce GHG emissions to 1990 levels; and by 2050, reduce GHG emissions to 80 percent below 1990 levels. In 2006, California passed the California Global Warming Solutions Act of 2006 (Assembly Bill 32), which requires the California Air Resources Board to design and implement emission limits, regulations, and other measures, such that feasible and cost-effective statewide GHG emissions are reduced to 1990 levels by 2020.

In December 2009, the SJVAPCD adopted guidance for addressing GHG impacts in its *Guidance for Valley Land Use Agencies in Addressing GHG Emission Impacts for New Projects under* CEQA. The guidance relies on performance-based standards, otherwise known as Best Performance Standards (BPS), to assess significance of project-specific GHG emissions on global climate change during the environmental review process. Projects can reduce their GHG emission impacts to a less than significant level by implementing BPS. Projects can also demonstrate compliance with the requirements of AB 32 by demonstrating that their emissions achieve a 29% reduction below "business as usual" (BAU) levels. BAU is a projected GHG emissions inventory assuming no change in existing business practices and without considering implementation of any GHG emission reduction measures.

Significance Criteria

The SJVAPCDs *Guidance for Valley Land Use Agencies in Addressing GHG Impacts for New Projects Under CEQA* provides initial screening criteria for climate change analyses, as well as draft guidance for the determination of significance.

The effects of project specific GHG emissions are cumulative, and therefore climate change impacts are addressed as a cumulative, rather than a direct, impact. The guidance for determining significance of impacts has been developed from the requirements of Assembly Bill 32. The guideline addresses the potential cumulative impacts that a project's GHG emissions could have on climate change.

Since climate change is a global phenomenon, no direct impact would be identified for an individual land development project. The following criteria are used to evaluate whether a project would result in a significant impact for climate change impacts:

- Does the project comply with an adopted statewide, regional, or local plan for reduction or mitigation of GHG emissions?
- Does the project achieve 29% GHG reductions by using approved Best Performance Standards?
- Does the project achieve Assembly Bill 32 targeted 29% GHG emission reductions compared with BAU?

Projects that meet one of these guidelines would have less-than-significant impact on the global climate. The goal of 29% below BAU for emissions of GHG has been used as a threshold of significance for this analysis.

In December 2022 the 2022 Scoping Plan was approved by the CARB which assesses progress toward achieving carbon neutrality by 2045. Because neither the City of Clovis or the SJVAPCD have developed or adopted numerical GHG significance threshold, the proposed Project was analyzed for consistency with the 2022 Scoping Plan consistent with statewide climate goals. The 2022 Scoping Plan includes key project attributes that reduce operational GHG emissions.

DISCUSSION

a) *Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?*

Significant and Unavoidable Impact. The Project would include the construction and operation of 266 single-family homes and associated infrastructure (i.e., sewer and water infrastructure, roadways, sidewalks, etc.). As such, short-term GHG emissions would be produced through the construction phase of the Project. Using CalEEMod, it is estimated that the annual emissions associated with construction of the proposed project would be approximately 1,545.0 metric tons of CO_2 e per year. Additionally, long-term GHG emissions are typically generated from mobile sources (e.g., vehicle and truck trips), area sources (e.g., maintenance activities and landscaping), indirect emissions from sources associated with energy consumption, waste sources (land filling and waste disposal), and water sources (water supply and conveyance, treatment, and distribution). As part of the AQ/GHG Report,[8] the proposed Project would result in emissions of approximately 2,650.4 MT CO_2 e per year. With this information, the Project was analyzed for consistency with the 2022 Scoping Plan. The 2022 Scoping Plan includes key project attributes that reduce operational GHG emission in Appendix D, Local Actions, of the 2022 Scoping Plan.

The first approach the State recommends for determining whether a proposed residential or mixed-use residential development would align with the State's climate goals is to examine whether the project includes key project attributes that reduce operational GHG emissions. As demonstrated in Table K of the AQ/GHG Report,[9] the Project would not be consistent with the 2022 Scoping Plan key residential and mixed-use project attributes related to VMT reduction. As discussed in Table K and in the project's TIA, the proposed project would result in a significant and unavoidable VMT impact. As previously noted, the project is consistent with the City's General Plan. During preparation of the General Plan, an EIR was prepared, along with a Statement of Overriding Consideration, that discussed the potential environmental impacts and required mitigation

8 Air Quality and Greenhouse Gas Analysis Report, LSA, August 2024.

9 Air Quality and Greenhouse Gas Analysis Report, LSA, August 2024.

measures to be implemented/followed by all future projects that are consistent with the General Plan. The proposed project would be conditioned to implement and follow these measures. Therefore, though proposed project would have a significant and unavoidable transportation impact under CEQA, no further mitigation measure would be required for the project related to VMT.

As discussed above, the proposed project would generally comply with existing State regulations adopted to achieve the overall GHG emissions reduction goals identified in the 2022 RTP. However, as described above, the proposed project would not be consistent with the 2022 Scoping Plan key residential and mixed-use project attributes related to VMT reduction. As such, the proposed project would not contribute to its "fair share" of emission reductions required to support achieving long-term State GHG reduction goals due to project's significant and unavoidable VMT impact. Therefore, the proposed project would conflict with the plans and policies adopted for the purpose of reducing the emissions of greenhouse gases, including the CARB 2022 Scoping Plan, Executive Order B-30-15, SB 32, and AB 1279. As such, although the proposed project would have a **significant and unavoidable impact** under CEQA, no further mitigation measures would be required for the project related to GHG.

b) *Would the project conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?*

Significant and Unavoidable Impact. Based on the AQ/GHG Report,[10] the overall GHG emissions reduction goals were identified in the 2022 RTP. However, as described above, the proposed project would not be consistent with the 2022 Scoping Plan key residential and mixed-use project attributes related to VMT reduction. As such, the proposed project would not contribute to its "fair share" of emission reductions required to support achieving long-term State GHG reduction goals due to project's significant and unavoidable VMT impact. Therefore, the proposed project would conflict with the plans and policies adopted for the purpose of reducing the emissions of greenhouse gases, including the CARB 2022 Scoping Plan, Executive Order B-30-15, SB 32, and AB 1279.Consequently, the AQ/GHG Report found this potential impact to be a **significant and unavoidable impact**, however, as discussed above no additional mitigation measures required based on the Project's consistency with the General Plan designation of Medium High Density and the Heritage Grove Growth planned growth area.

9. HAZARDS AND HAZARDOUS MATERIALS

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			X	
b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?			X	
c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter				X

10 Air Quality and Greenhouse Gas Analysis Report, LSA, August 2024.

mile of an existing or proposed school?				
d. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				X
e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?				X
f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?			X	
g. Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?			X	

ENVIRONMENTAL SETTING

For purposes of this chapter, the term "hazardous materials" refers to both hazardous substances and hazardous wastes. A "hazardous material" is defined in the Code of Federal Regulations (CFR) as "substance or material that is capable of posing an unreasonable risk to health, safety, and property when transported in commerce" (49 CFR 171.8). California Health and Safety Code Section 25501 defines a hazardous material as "any material that, because of its quantity, concentration, or physical, or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment." Hazardous materials include, but are not limited to, hazardous substances, hazardous waste, and any material which a handler or the administering agency has a reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment.

"Hazardous wastes" are defined in California Health and Safety Code Section 25141(b) as wastes that "…because of their quantity, concentration, or physical, chemical, or infectious characteristics, [may either] cause or significantly contribute to an increase in mortality or an increase in serious illness, or pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of, or otherwise managed."

The nearest school to the Project site is Riverview Elementary School, located approximately one and a half (1.5) mile west of the site at its closest point.

DISCUSSION

a) *Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?*

Less-Than-Significant Impact. The Project consists of the construction of 266 single-family homes on ±36.92 acres. The type of hazardous materials that would be associated with the Project are those typical of residential uses, such as the use of household cleaners, landscape maintenance products, soaps, and

potential pesticides (for pest control). These materials, when used and applied properly, would not necessarily create a significant hazard to the public or the environment. Further, these materials are not anticipated to be stored in large quantities that could pose a threat. Overall, the Project would not routinely transport, use, or dispose of hazardous materials other than those typical of residential development, which are not generally considered of the type or quantity that would pose a significant hazard to the public when used as directed. During construction, typical equipment and materials would be used that are associated with residential construction; however, any chemicals or materials would be handled, stored, disposed of, and/or transported according to applicable laws. Consequently, because the Project is not of the type of use that would routinely transport, use, or dispose of hazardous materials a **less-than-significant** impact would occur with no mitigation measures.

b) *Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?*

Less-Than-Significant Impact. See discussion above under Section 9a.

c) *Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?*

No Impact. As mentioned above, the Project site is located approximately one and a half (1.5) mile from the nearest school. Further, the Project is not of the type of use typically associated with emitting hazardous emissions or handling the type or quantity of hazardous materials such that it would pose a risk or threat to the school, or surrounding area. Therefore, **no impact** would occur.

d) *Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?*

No Impact. According to the California Department of Toxic Substance Control EnviroStor Database, the Project site is not located on or within the immediate vicinity of a hazardous materials site.[11] Therefore, **no impact** would occur.

e) *For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?*

No Impact. The Project is located approximately seven (7) miles northeast of the Fresno Yosemite International Airport and is not within the Airport Influence Area, safety zones, noise, or airspace and overflight areas. Therefore, **no impact** would occur.

f) *Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?*

Less-Than-Significant Impact. The Project will connect in the internal street network to N. Peach, E. Behymer, and N. Minnewawa Avenues. Although the Project could result in temporary traffic detouring or closures during buildout, these delays would be temporary and would be coordinated with the City Planning

11 California Department of Toxic Substance Control, EnviroStor Database, https://www.envirostor.dtsc.ca.gov/public/map/?global_id=71003467, accessed on September 30, 2024.

and Development Services Department and other departments to ensure safe access to and from the area is maintained. Further, the site itself would be reviewed by City departments to ensure adequate site access and circulation is provided in the event of an emergency. Overall, a **less-than-significant** impact would occur with no mitigation measures.

g) *Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?*

Less-Than-Significant Impact. The Project site it is not located in an area typically associated with wildfires. Although urban fires could occur, the Project would be constructed to the latest fire code standards, which would include fire sprinklers in each unit, as well as the installation of several fire hydrants throughout the site as required by the Clovis Fire Department. Further, other life safety features would be required such as smoke detectors, which would be reviewed and checked by the Fire Department to ensure proper operation prior to occupancy. Ultimately, a **less-than-significant** impact would occur with no mitigation measures.

10. HYDROLOGY AND WATER QUALITY

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?			X	
b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?			X	
c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: (i) result in substantial erosion or siltation on- or off-site; (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; (iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or (iv) impede or redirect flood flows?			X	
i. Result in substantial erosion or siltation on- or off-site?			X	
ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite?			X	
iii. Create or contribute runoff water which			X	

would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?				
iv. Impede or redirect flood flows?			X	
d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?			X	
e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?			X	

ENVIRONMENTAL SETTING

The City is within the drainages of three streams: Dry Creek, Dog Creek, and Redbank Slough. On the north, Dry Creek discharges into the Herndon Canal in the City of Fresno west of Clovis. South of Dry Creek, Dog Creek is a tributary of Redbank Slough, which discharges into Mill Ditch south of Clovis (USGS 2012). A network of storm drains in the City discharge into 31 retention basins, most of which provide drainage for a one- to two-square-mile area. Most of the Plan Area east and northeast of the City is not in drainage areas served by retention basins.

The Project is located within the FMFCD boundary, and subject to its standards and regulations. Detention and retention basins in the FMFCD's flood control system are sized to accommodate stormwater from each basin's drainage area in built out condition. The current capacity standard for FMFCD basins is to contain runoff from six inches of rainfall during a 10-day period and to infiltrate about 75 to 80 percent of annual rainfall into the groundwater basin (Rourke 2014). Basins are highly effective at reducing average concentrations of a broad range of contaminants, including several polyaromatic hydrocarbons, total suspended solids, and most metals (FMFCD 2013). Pollutants are removed by filtration through soil, and thus do not reach the groundwater aquifer (FMFCD 2014). Basins are built to design criteria exceeding statewide Standard Urban Stormwater Mitigation Plan (SUSMP) standards (FMFCD 2013). The urban flood control system provides treatment for all types of development—not just the specific categories of development defined in a SUSMP—thus providing greater water quality protection for surface water and groundwater than does a SUSMP.

In addition to their flood control and water quality functions, many FMFCD basins are used for groundwater recharge with imported surface water during the dry season through contracts with the FID and the cities of Fresno and Clovis (FMFCD 2013).

The pipeline collection system in the urban flood control system is designed to convey the peak flow rate from a two-year storm.

Most drainage areas in the urban flood control system do not discharge to other water bodies and drain mostly through infiltration into groundwater. When necessary, FMFCD can move water from a basin in one such drainage area to a second such basin by pumping water into a street and letting water flow in curb and gutter to a storm drain inlet in an adjoining drainage area (Rourke 2014). Two FMFCD drainage areas discharge directly to the San Joaquin River, and three to an irrigation canal, without storage in a basin. Six drainage areas containing basins discharge to the San Joaquin River, and another 39 basins discharge to canals (FMFCD 2013).

A proposed development that would construct more impervious area on its project site than the affected detention/retention basin is sized to accommodate is required to infiltrate some stormwater onsite, such as through an onsite detention basin or drainage swales (Rourke 2014).

The Big Dry Creek Reservoir has a total storage capacity of about 30 thousand acre-feet (taf) and controls up to 230-year flood flows. Fancher Creek Dam and Reservoir hold up to 9.7 taf and controls up to 200-year flood flows. Redbank Creek Dam and Reservoir hold up to 1 taf and controls up to 200-year flood flows.

Groundwater

Clovis is underlain by the Kings Groundwater Basin that spans 1,530 square miles of central Fresno County and small areas of northern Kings and Tulare counties. Figure 5.9-4, Kings Groundwater Basin, shows that the basin is bounded on the north by the San Joaquin River, on the west by the Delta-Mendota and Westside Subbasins, the south by the Kings River South Fork and the Empire West Side Irrigation District, and on the east by the Sierra Nevada foothills. Depth to groundwater in 2016 ranged from 196.5 feet at the northwest City boundary to 69.5 feet at the southeast City boundary (Clovis 2016), 25 feet at the southeast SOI boundary, and about 20 feet at the eastern Plan Area boundary (FID 2013). The Kings Subbasin has been identified as critically overdrafted (Provost & Pritchard 2011).

In the Plan Area, groundwater levels are monitored by the City of Clovis and FID. The overall area has not experienced land subsidence due to groundwater pumping since the early 1900s (FID 2006). Subsidence occurs when underground water or natural resources (e.g., oil) are pumped to the extent that the ground elevation lowers. No significant land subsidence is known to have occurred in the last 50 years as a result of land development, water resources development, groundwater pumping, or oil drilling (FID 2006). The City has identified a localized area of subsidence of 0.6 feet in the vicinity of Minnewawa and Herndon Avenues within the last 14 years (Clovis 2016). Regional ground subsidence in the Plan Area was mapped as less than one foot by the US Geological Survey in 1999 (Galloway and Riley 1999). Groundwater levels in the San Joaquin Valley are forecast to hit an all-time low in 2014 (UCCHM 2014).

New development in accordance with the General Plan Update would increase the amount of impervious surface in the Plan Area, potentially affecting the amount of surface water that filters into the groundwater supply. Groundwater levels are monitored in the Plan Area by the FID and the City of Clovis. As described in the 2015 City of Clovis Urban Water Management Plan (UWMP), groundwater recharge occurs both naturally and artificially throughout the City. The Kings Groundwater Basin area is recharged through a joint effort between the Cities of Clovis and Fresno and the FID (CDWR 2006). Approximately 8,400 acre-feet per year (afy) of water are intentionally recharged into the Kings Groundwater Basin by the City of Clovis, and approximately 7,700 afy of water naturally flow into groundwater in the City's boundaries (Clovis 2011).

The FMFCD urban stormwater drainage system would provide groundwater infiltration for runoff from developed land uses in detention basins in the drainage system service area.

Projects pursuant to the proposed General Plan Update and developed outside of the FMFCD urban stormwater drainage system would be required to meet the requirements of NPDES regulations, including the implementation of BMPs to improve water retention and vegetation on project sites.

DISCUSSION

a) *Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?*

Less-Than-Significant Impact. The Project is located on a site that was previously anticipated for residential use. As with any development, existing policies and standards are required to be complied with, which are

assessed during review of the entitlements. As such, the Engineering Division, as well as outside agencies such as the FMFCD review all plans to ensure that none of the water quality standards are violated and that waste discharge requirements are adhered to during construction and operation of the Project. Consequently, this process of Project review and approval would ensure that a **less-than-significant** impact occur with no mitigation measures.

b) *Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?*

Less-Than-Significant Impact. The Project would not deplete groundwater supplies or interfere with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level due to the Project. The 2014 General Plan EIR identified a net decrease in ground water aquifer throughout the region, however, because the City's domestic water system is primarily served through surface water via existing water entitlements, the loss of aquifer is less than significant. The City has developed a surface water treatment plant (opened in June 2004) that reduces the need for pumped groundwater, and has also expanded the municipal groundwater recharge facility. The Projects impacts to groundwater are **less than significant** with no mitigation measures required.

c) *Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would: (i) result in substantial erosion or siltation on- or off-site; (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; (iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or (iv) impede or redirect flood flows?*

Less-Than-Significant Impact. There are no streams or rivers on the site that would be altered as a result of the Project. The site is mostly pervious since it is currently undeveloped, and as a result, the Project would increase the number of impervious surfaces by installing paving for roadways and sidewalks. However, the drainage pattern would be constructed per existing policies and regulations through review of the plans by the City Engineering Division and the FMFCD to ensure the site is properly and adequately drained such that the storm drain system is maintained and so that no flooding occurs. Consequently, this review and approval by City engineers and FMFCD would mean that the Project result in a **less-than-significant** impact would occur with no mitigation measures.

d) *Would the project, in flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?*

Less-Than-Significant Impact. Due to the Central Valley's location away from the ocean, an impact from a tsunami is unlikely. The majority of the site is located within the 1% annual flood (100-year flood) area as mapped by Federal Emergency Management Agency (FEMA); however, the CMC Section 8.12, Floodplain Management lists standards and requirements for new construction within special flood zones; therefore, the Project would implement flood hazard management as required by the CMC. As a result of adhering to required flood hazard management, the Project would not risk the release of pollutants due to inundation and consequently, the Project would result in a **less-than-significant** impact would occur with no mitigation measures.

e) *Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?*

Less-Than-Significant Impact. The City of Clovis is within the North Kings County Groundwater Sustainability Agency (GSA). Pursuant to the Sustainable Groundwater Management Act of 2014 (SGMA), certain regions in California are required to develop and implement a groundwater management plan that sustainably manages groundwater resources. The proposed Project would comply with the 2020 City of Clovis UWMP which promotes programs and policies to manage water supplies. Nevertheless, the Project would derive the majority of its water from surface water sources and does not propose or include plans for groundwater use. With regards to water quality control, the Project would be required to adhere to appropriate storm drain conveyance and the protection of water resources which would include the installation of backflow preventers. Consequently, the Project would result in a **less-than-significant** impact with no mitigation measures.

11. LAND USE AND PLANNING

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Physically divide an existing community?			X	
b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?			X	

ENVIRONMENTAL SETTING

As described above in the Project Description, the Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities.

DISCUSSION

a) *Would the project physically divide an existing community?*

Less-Than-Significant Impact. Although the site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings, the general area surrounding the property is designated for future residential development of varying densities. Typically, physically dividing existing communities is associated with the construction of a new road intersecting an established area or introducing uses that are not necessarily in line with the existing uses and planned land uses of the area. However, the Project site has been previously designated in the 2014 Clovis General Plan and zoned for residential use.

Consequently, because the proposed Project is the type of use previously planned for this site and the general areas, it would not physically divide an existing community. Rather, it seeks to add new housing stock to the City with installation of a new public sidewalk and roadway infrastructure. Therefore, a **less-than-significant** impact would occur, and no mitigation measures are required.

b) *Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?*

Less-Than-Significant Impact. As mentioned in the Existing Setting Section above**,** the Project site is currently within the County of Fresno jurisdiction and zoned AE-20 (Exclusive Agricultural). However, the Project site will be rezoned to the R-1-PRD (Single-Family Planned Residential Development) Zone District

though this entitlement application (Rezone 2024-006). According to Section 9.10.010(B)(5) of the CMC, the R-1-PRD Zone District identifies areas appropriate for single-family small lot uses, including attached and detached single-family structures on small lots. If approved, the Project will be required to go through the RSPR entitlement process for review for compliance with relevant design policies, such as in the Heritage Grove Master Plan, the CMC, and the General Plan. During the review, the height, color, and materials are reviewed for consistency with these plans and guidelines. As a result of the Project in complying with the land use and zoning designation upon approval, as well as the review process ensuring General Plan and other applicable policies are adhered to, the Project would result in a **less-than-significant** impact with regards to conflicting with a land use plan. No mitigation measures are required.

12. MINERAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				X
b. Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?				X

ENVIRONMENTAL SETTING

The City of Clovis 2014 General Plan EIR defines minerals as any naturally occurring chemical elements or compounds formed from inorganic processes and organic substances.[12] The 2014 General Plan EIR indicates that there are no active mines or inactive mines within the Plan Area of the City of Clovis.

DISCUSSION

a) *Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?*

No Impact. As stated above, the City of Clovis does not have any active mines or inactive mines. Further, the Project site is not zoned, designated, or otherwise mapped for mineral resource extraction, or for having mineral resources of value to the region present on or below the surface of the site. Therefore, **no impact** would occur.

b) *Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?*

No Impact. Please refer to the discussion under Section 12a.

13. NOISE

Would the project:	Potentially Significant	Less Than Significant With	Less Than Significant	No Impact

12 2014 Clovis General Plan EIR, Chapter 5: Mineral Resources, page 5.11-1.

	Impact	Mitigation Incorporated	Impact	
a. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?			X	
b. Generation of excessive groundborne vibration or groundborne noise levels?			X	
c. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				X

ENVIRONMENTAL SETTING

The Project site located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. As such, existing ambient noise levels are typical of those associated with rural residential development, such as the sound of vehicles passing by, the sound of talking, and recreation could be expected within the Project vicinity. As a result of construction existing ambient noise levels may be slightly elevated as a result of the use of construction equipment, such as large trucks, tractors, and other construction tools associated with residential development. These increases would be temporary, however, and would cease upon completion of the neighborhood.

An acoustical analysis was prepared for the Project by LSA in August of 2024 and the analysis below is based in part on the study. As part of the acoustical analysis, noise exposure from traffic on E. Behymer and N. Minnewawa Avenues was calculated for future conditions using the Federal Highway Administration (FHWA) Highway Traffic Noise Prediction Model. The acoustical analysis can be found in Appendix F of this Initial Study.

DISCUSSION

a) *Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?*

Less-Than-Significant Impact. The Project would include development of 266 single-family homes on an undeveloped site. Thus, the Project would result in a temporary and permanent increase in ambient noise levels as a result of construction and operation. However, as mentioned above, the Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site is surrounded by primarily agricultural uses designated for future residential development at varying densities. The Project would introduce new ambient noise from the construction and operation of the homes, these noises would represent the typical type of noise levels that is expected for a planned residential land use. While increases in ambient noise would occur due to the construction of the Project, this increase would be temporary and would be required to adhere to local regulations limiting the hours of construction.

Section 9.22.080 of the Clovis Municipal Code. Table 3-1: Maximum Exterior Noise Standards sets the maximum permissible sound levels, categorized by land use, as summarized in Table D. The sound level

limits set forth in the table shall not be exceeded by noise emanating from either the same land use category or a different land use category. Because of the residences near the project site, the applicable operational noise level standard for this project is 55 dBA Leq. Section 5.27.604 states that construction activities are only permitted between the hours of 7:00 a.m. and 7:00 p.m., Monday through Friday, and between 9:00 a.m. and 5:00 p.m. on Saturday and Sunday. From June 1 through September 15, permitted construction activity may commence after 6:00 a.m., Monday through Friday.

The acoustical analysis indicated that the increase in project-related traffic noise would be no greater than 0.9 dBA on currently constructed roads. Noise level increases less than 3 dBA are not perceptible to the human ear in an outdoor environment. While there is an increase of 26.9 dBA CNEL on the segment of Peach Avenue south of Behymer Avenue, the overall noise level of 47.5 dBA CNEL would be well below the City's exterior noise level standard of 65 dBA CNEL for residential uses. Therefore, traffic noise impacts from project-related traffic on off-site sensitive receptors would a **less-than-significant impact**, and no mitigation measures are required.

b) *Would the project result in generation of excessive groundborne vibration or groundborne noise levels?*

Less-Than-Significant Impact. The Project includes development of 266 single-family homes and associated infrastructure (i.e., sidewalks, roadways, curb, gutter, stormdrains, etc.). The proposed project would not generate vibration levels related to on-site operations. In addition, vibration levels generated from project-related traffic on the adjacent roadways are unusual for on-road vehicles because the rubber tires and suspension systems of on-road vehicles provide vibration isolation. Based on a reference vibration level of 0.076 in/sec PPV, structures greater than 20 ft from the roadways that contain project trips would experience vibration levels below the standard of 0.2 in/sec PPV; therefore, vibration levels generated from project-related traffic on the adjacent roadways would have a **less-than-significant impact**, and no mitigation measures are required.

c) *For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?*

No Impact. The Project is located approximately seven (7) miles northeast of the Fresno Yosemite International Airport and is not within the Airport Influence Area, safety zones, noise, or airspace and overflight areas. Therefore, **no impact** would occur.

14. POPULATION AND HOUSING

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example through extension of roads or other infrastructure)?			X	
b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?			X	

ENVIRONMENTAL SETTING

The Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site's topography is generally flat and characterized somewhat with fruit orchards.

DISCUSSION

a) *Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example through extension of roads or other infrastructure)?*

Less-Than-Significant Impact. The Project would result in 266 single-family homes. The Project site has an existing General Plan Land Use designation of Medium High Density Residential which allows for a density range of 7.1 – 20.0 du/ac. Calculated with gross acres; the Project site would require a range of 262 to 738 dwelling units. The proposed density is 7.2 units per gross acre. Further, the Project includes residential use on a site that is planned for the type of use being proposed. Unplanned population growth is typically associated with providing new services in remote areas of the City or other infrastructure that was not previously identified in the General Plan. Although the Project would result in new housing units and population to the site, this growth was previously planned and anticipated under the 2014 General Plan. Thus, a **less-than-significant** impact would occur, and no mitigation measures are required.

b) *Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?*

Less-Than-Significant Impact. The Project site is developed with one single family residence that is currently occupied. While there is an existing occupied home on the site, the Project is not displacing a substantial number of people. Therefore, the Project would not result in the substantial displacement of existing people or housing and a **less-than-significant** impact would occur.

15. PUBLIC SERVICES

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
a. Fire protection?			X	
b. Police protection?			X	
c. Schools?			X	
d. Parks?			X	
e. Other public facilities?			X	

ENVIRONMENTAL SETTING

The Project would be served by the Clovis Fire Department, Clovis Police Department, with mutual aid from the City of Fresno, when needed. The Project site would also be within the Clovis Unified School District.

The nearest fire station is Fire Station #3, located approximately three (3) miles south of the site. The other closest fire station is Fire Station #5, located approximately six (6) miles to southeast of the site.

DISCUSSION

a) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for fire protection services?*

Less-Than-Significant Impact. Although the Project would result in 266 new residential units, the site is located adjacent to an area of the City that is already served by the Clovis Fire Department. Also, the site itself is in close proximity to Fire Station's #3 and #5, which would mean that response times should be able to be maintained during calls for service. As part of the entitlement process for the Project, the Clovis Fire Department will review the design and site layout to ensure adequate fire safety measures and site circulation are achieved. This would include placement of new fire hydrants in certain locations throughout the site, adequate drive widths for fire truck and emergency vehicle access, and the appropriate application of fire codes, such as installation of sprinkler systems, fire alarms, and smoke detectors. Overall, with the site's close proximity to numerous fire stations, construction that would meet the latest fire code standards, and review by the Clovis Fire Department, impacts related to effects on the performance of the Fire Department would be **less-than-significant** and no mitigation measures are required.

b) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for police protection services?*

Less-Than-Significant Impact. Although the Project would result in 266 new residential units, the site is located adjacent to an area of the City already served by the Clovis Police Department. The Clovis Police Department headquarters are located at 1233 Fifth Street, which is approximately five (5) miles from the site. As part of the entitlement process for the Project, the Clovis Police Department will review the design and site layout to ensure adequate safety measures are achieved. Consequently, a **less-than-significant** impact would occur and no mitigation measures are required.

c) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for schools?*

Less-Than Significant Impact. As part of the review process, Clovis Unified School District (CUSD) is provided the opportunity to comment and work closely with the City as development is proposed. As mentioned previously, the Project site was previously planned for residential development, as indicated in the 2014 Clovis General Plan. As such, the CUSD has been aware of the potential for this type of development at this location. As part of the process, the Project would be required to pay school fees which typically go towards the improvement and/or construction of new schools or expanding existing schools if and when needed, as determined by the CUSD. Therefore, because the Project is consistent with what was previously

planned for at this site in addition to payment of appropriate school fees set by the CUSD, a **less-than-significant** impact would occur and no mitigation measures are required.

d) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for parks?*

Less-Than-Significant Impact. Although the Project proposes one (1) ±33,000 square foot neighborhood park, this park would not cause significant environmental impacts in order to maintain acceptable service ratios, response times or other performance objectives for parks. Furthermore, the Project is required to request annexation to and provide a covenant for the Landscape Maintenance District. Consequently, a **less-than-significant** impact would occur and no mitigation measures are required.

e) *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for other public facilities?*

Less-Than-Significant Impact. Although the Project would result in 266 new residential units, residential uses have been previously planned for in the 2014 Clovis General Plan in this area. Also, through the entitlement process, the Project would undergo review by several departments and agencies for compliance with appropriate regulations and policies. This could result in various impact fees that are intended to maintain and enhance public facilities as appropriate to be able to accommodate the Project. As such, payment of the typical development fees, as well as project review by the different department and agencies, would result in the Project having a **less-than-significant** impact to public facilities. No mitigation measures are required.

16. RECREATION

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?			X	
b. Does the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?			X	

ENVIRONMENTAL SETTING

The nearest existing recreational site is Dry Creek Trailhead, located at the corner of Shepherd and Sunnyside Avenues. A future community park is planned approximately 530 feet southeast of the Project site.

DISCUSSION

a) *Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?*

Less-Than-Significant Impact. As mentioned in the Population and Housing section of this Initial Study, the Project is of the type previously planned and accounted for in the 2014 Clovis General Plan. Although 266 new residential units would be constructed, therefore, adding new population to the area that may utilize parks within the surrounding area, this growth was planned for with regards to park usage throughout the city. Further, the Project itself would include landscaped and open space areas on-site for its residents, as well as a pocket park space within the neighborhood, thereby, providing areas of recreation within the site itself. The Project would also be required to comply with 2014 General Plan Policy 2.2 of the Open Space and Conservation Element which encourages the incorporation of on-site natural resources.

b) *Does the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?*

Less-Than-Significant Impact. The Project site itself would construct an on-site neighborhood park. The Project itself would not require the construction or expansion of new recreational facilities elsewhere that would have an adverse physical effect on the environment. The Project would also be required to contribute a proportionate share towards the acquisition and development of future parks in order for the City to maintain its adopted ratio of providing four (4) acres of parkland per 1,000 residents, as stated in Policy 1.1 in the Open Space and Conservation Element of the 2014 General Plan, and Section 3.4.03 of the CMC. As such, a **less-than-significant** impact would occur and no mitigation measures are required.

17. TRANSPORTATION

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?			X	
b. Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	X			
c. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?			X	
d. Result in inadequate emergency access?			X	

ENVIRONMENTAL SETTING

The project is bound by N. Peach Avenue to the west, E. Behymer Avenue to the north, and N. Minnewawa Avenue to the east. The circulation network serving the site including internal site circulation will be constructed as part of the project.

According to the 2014 Clovis General Plan Circulation Diagram in the Circulation Element (Figure C-1 of the Circulation Element), North Peach Avenue is classified as a “Collector” street. Collectors generally intended to

provide for relatively short distance travel between and within neighborhoods and that serve longer through trips. East Behymer and North Minnewawa are classified as "Arterial" roads. An arterial road is a high-capacity road that connects different areas of the city and is a crucial part of the national transportation system. Arterial roads are designed to carry large amounts of traffic efficiently and minimize delays.

A Transportation Impact Analysis (TIA) was prepared by LSA in October of 2024 (included as Appendix E of this Initial Study). The information and analysis in the following sections is based in part on the results of the TIA.

DISCUSSION

a) *Would the project conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?*

Less-Than-Significant Impact. As mentioned above, the site is on land that was previously planned for residential use in the 2014 Clovis General Plan. As described in the Population and Housing section above, the Project will be consistent with the planned density. The 2024 Clovis General Plan considers level of service (LOS) D as the LOS standard vehicle traffic operations, except for roadway segments that are adopted in the City's General Plan EIR to operate at LOS E or F. At study intersections under the jurisdiction of the City of Clovis, a significant impact would occur at a signalized intersection when LOS falls below the target LOS of D with the addition of project traffic or when project increases the average delay at an intersection already operating at an unacceptable LOS.

The TIA studied six (6) intersections 1) Willow and Behymer Avenues, 2) Willow and Perrin Avenues, 3) Peach and Behymer Avenues, 4) Minnewawa and Behymer Avenues, 5) Minnewawa and Perrin Avenues, and 6) Minnewawa and Shepherd Avenues for existing conditions, existing-plus-project conditions, near term with project conditions, and cumulative conditions to the year 2046. Each scenario is based on the Projects a.m. and p.m. peak hour trips as determined in the TIA. According to the TIA, the Project would result in 186 trips in the a.m. peak hours of between 7:00 a.m. and 9:00 a.m. and 250 trips in the p.m. peak hours between 4:00 p.m. and 6:00 p.m., as well as a total of 2,508 daily vehicle trips. Per the TIA, with incorporation of improvements recommended for each scenario, all study intersections will operate at satisfactory LOS levels thus, the Project, will not conflict with the Circulation Element of the 2014 General Plan. Consequently, a **less-than-significant** impact would occur. No mitigation measures are required.

b) *Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?*

Significant and Unavoidable Impact. Senate Bill 743 (SB 743) requires that relevant CEQA analysis of transportation impacts be conducted using a metric known as vehicle miles traveled (VMT) instead of level of service (LOS). VMT measures how much actual auto travel (additional miles driven) a proposed project would create on California roads. If the proposed project adds excessive car travel onto our roads, the proposed project may cause a significant transportation impact. Per CEQA Guidelines Section 15064.3(b)(4) a lead agency has discretion to choose the most appropriate methodology to evaluate a project's VMT, including whether to express the change in absolute terms, per capita, per household or in any other measure. A lead agency may use models to estimate a project's VMT and may revise those estimates to reflect professional judgment based on substantial evidence. Any assumptions used to estimate VMT and any revisions to model outputs should be documented and explained in the environmental document prepared for the project.

On October 17, 2022, the City of Clovis adopted the Transportation Impact Analysis Guidelines (Guidelines), dated September 15, 2022. Consistent with CEQA Guidelines Section 15064.3, the City of Clovis has adopted thresholds of significance to determine when a project will have a significant transportation impact based on VMT. The City has developed screening criteria to streamline the analysis for projects that meet certain

criteria. A project will require a detailed VMT analysis unless it meets at least one of the City's five screening criteria[13]:

- Small Projects that generate less than 500 vehicle trips per day (i.e., Single-Family Residential developments with less than 53 dwelling units).
- Provision of affordable housing
- Local-serving retail projects with areas of 100,000 square feet and below
- Projects located in a High-Quality Transit Area (HQTA) as defined on page 8 of the City's Transportation Impact Analysis Guidelines
- Project located in low VMT area

The Project does not qualify for the screening criteria; therefore, shall be evaluated per Guidelines thresholds. The significance thresholds and specific VMT metrics are described on page 10 of the City's Transportation Impact Analysis Guidelines. Per the City's Transportation Impact Analysis Guidelines, the residential land use impact threshold is 14.1 VMT per capita. The Project will generate 14.9 VMT per capita which is greater than the threshold of 14.1 VMT per capita; therefore, the Project would create a significant transportation impact. Feasible mitigation measures must be identified to avoid or substantially reduce a significant impact under CEQA. Mitigation of VMT impacts typically requires changes in habits and behaviors of residents. Project design features that encourage mode shift from automobiles to transit or nonmotorized modes can potentially reduce project specific VMT. The potential VMT reduction was estimated using the California Air Pollution Control Officers Association's (CAPCOA) *"Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity – Designed for Local Governments, Communities, and Project Developers"* dated December 2021.

Although the Project would create a significant transportation impact, the project is consistent with the City's General Plan. During preparation of the 2014 General Plan Circulation Element Update, a Supplemental Environmental Impact Report was prepared, along with a statement of Overriding consideration, that discussed the potential environmental impacts and required mitigation measures to be implemented/followed by all future projects that are consistent with the General Plan. The project will be conditioned to implement and follow these measures.

The City adopted a Supplemental Environmental Impact Report (SEIR) for the 2014 General Plan Circulation Element Update on October 17, 2022. The SEIR evaluated potential land uses consistent with the General Plan and their associated VMT impacts. The SEIR finds that implementation of the 2014 General Plan may result in VMT metrics that are greater than the applicable thresholds. Mitigation measures include policies to reduce VMT. Because the City cannot demonstrate that the implementation of these policies would achieve VMT reductions to meet the VMT thresholds, the impacts would remain significant and unavoidable. Therefore, following approval of the SEIR, individual land use development projects that are consistent with the 2014 General Plan have the opportunity to tier their environmental review from the General Plan SEIR pursuant to section 15152 of the CEQA Guidelines. The SEIR has disclosed the VMT impacts of land use development consistent with the General Plan. Therefore, significant, and unavoidable VMT impacts associated with the General Plan have already been disclosed. Because the proposed Project is consistent with the 2014 General Plan, the Project's significant transportation impact does not require the preparation of a project specific EIR. Although the Project, has been determined to be consistent with the 2014 General Plan and is tiering from the SEIR, it would remain a **significant and unavoidable** impact.

13 Transportation Impact Analysis, LSA, October 2024, page 4.

c) *Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?*

Less-Than-Significant Impact. The Project would result in a significant impact if it would include features that would create a hazard such as a sharp curve in a new roadway or create a blind corner or result in sight distance issues from entryways. Through the entitlement process, the Project would undergo review by multiple City divisions, such as Planning and Engineering, to ensure that the site layout conforms to existing regulations, such as the CMC, and other applicable codes, such as the fire code and building code. During this review, the Project would need to make the necessary corrections to ensure that no hazardous design features would result from the Project. Further, the main roadway network (N. Peach, E. Behymer and N. Minnewawa Avenues) will be constructed to City roadway standards. Therefore, because the Project would undergo site plan and design review to ensure consistency and adherence to applicable design and site layout guidelines, a **less-than-significant** impact would occur, and no mitigation measures are required

d) *Would the project result in inadequate emergency access?*

Less-Than-Significant Impact. The Project would include three (3) ingress/egress access points to the proposed development from E. Behymer Avenue and one (1) ingress/egress access point from the N. Peach alignment. As part of the Project review, the Clovis Fire Department would review all plans to ensure adequate emergency access is provided. This review includes review for adequate roadway widths, turning radii, as well as adequate access to units and accessibility to water. Consequently, because the Project plans would be required by the CMC to be reviewed and approved by Clovis Fire Department and Police Department prior to construction, this impact would be **less-than-significant,** and no mitigation measures are required.

18. TRIBAL CULTURAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?				X
b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Section 5024.1 for the purposes of this paragraph, the lead agency shall consider the significance of the resource to a California Native American Tribe?		X		

ENVIRONMENTAL SETTING

On September 25, 2014, Governor Jerry Brown signed Assembly Bill (AB52), which intends to protect a new class of recourse under CEQA. This new class is Tribal Cultural Resources and provides an avenue to identify Tribal Cultural resources through a consultation process. AB52 applies to all projects where a Notice of

Determination is filed. Furthermore, the consultation process is required to be complete prior to filing a Notice of Intent.

City staff conducted Native American Consultation in compliance with AB52. In compliance with AB52, invitations for consultation were mailed on July 1, 2024, which affords Native tribes thirty (30) days to respond and to request consultation. During this timeframe, no requests for consultations were received. Additionally, the Cultural Study prepared by Peak & Associates Inc. dated August 2024, included a records search from the CHRIS SSJVIC, which did not identify any tribal resources.

DISCUSSION

a) *Would the project cause a substantial adverse change to a listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?*

No Impact. See discussion under Section 5a.

b) *Would the project cause a substantial adverse change to a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Section 5024.1 for the purposes of this paragraph, the lead agency shall consider the significance of the resource to a California Native American Tribe?*

Less-Than-Significant Impact With Mitigation. As mentioned above, the City invited three (3) Native American tribes to consult on the Project under AB 52, and no tribes requested consultation within the 30-day period. The Project site is primarily undeveloped and would require trenching and ground-disturbing activities during construction for the installation of utility infrastructure needed to serve the Project. Although no cultural resources were identified at the site, the potential remains that cultural resources could be inadvertently discovered during ground-disturbing activities. However, implementation of Mitigation Measures TCR-1 and TCR-2 below would reduce potential significant impacts and ensure protection in the event of accidental discovery of any cultural resources. With Mitigation Measure TCR-1 and TCR-2, impacts would be **less-than-significant with mitigation**.

Mitigation Measure TCR-1: If cultural or archaeological materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, meeting the Secretary of the Interior's Professional Qualification Standards for prehistoric and historic archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants.

If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.

If a potentially eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met.

Mitigation Measure TCR-2: If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code. The specific protocol, guidelines, and channels of communication outlined by the Native American Heritage Commission, in accordance with Section 7050.5 of the Health and Safety Code, Section 5097.98 of the Public Resources Code (Chapter 1492, Statutes of 1982, Senate Bill 297), and Senate Bill 447 (Chapter 44, Statutes of 1987), shall be followed. Section 7050.5(c) shall guide the potential Native American involvement, in the event of discovery of human remains, at the direction of the County coroner. All reports, correspondence, and determinations regarding the discovery of human remains on the project site shall be submitted to the Lead Agency.

19. UTILITIES AND SERVICE SYSTEMS

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?			X	
b. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?			X	
c. Result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?			X	
d. Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?			X	
e. Comply with federal, state, and local management reduction statutes and regulations related to solid waste?			X	

ENVIRONMENTAL SETTING

The electricity and natural gas services in the City of Clovis are provided by PG&E. AT&T/SBC provides telephone service to the City.

The City's water supply sources include groundwater drawn from the Kings Sub-basin of the San Joaquin Valley Groundwater Basin and surface water from the FID. Surface water is treated at the City of Clovis Surface Water Treatment Facility.

The City of Clovis provides sewer collection service to its residents and businesses. Treatment of wastewater occurs at the Fresno-Clovis Regional Wastewater Treatment Plant (RWTP). The Fresno-Clovis RWTP is

operated and maintained by the City of Fresno and operates under a waste discharge requirement issued by the Central Valley Regional Water Quality Control Board. Additionally, the City has completed a 2.8 mgd wastewater treatment/water reuse facility, which will service the City's new growth areas.

The FMFCD has the responsibility for storm water management within the Fresno-Clovis metropolitan area of the Project site. Stormwater runoff that is generated by land development is controlled through a system of pipelines and storm drainage detention basins.

DISCUSSION

a) *Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?*

Less-Than-Significant Impact. The Project includes construction of 266 residential units. As mentioned above, the site is a use previously accounted for in the 2014 Clovis General Plan. Further, as part of the review process for the Project, the wastewater impacts will be evaluated by the City Engineer to ensure compliance with the City's Waste Water Master Plan, as well as FMFCD, so that the Project would not exceed wastewater treatment requirements such that a new facility would be required nor would the existing treatment facility need to be expanded. While the Project would introduce new units at this site, the type of development would be consistent with the land use designation and Zone District. Upon review and approval by the City Engineer, the Project would result in a **less-than-significant** impact. No mitigation measures are required.

b) *Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?*

Less-Than-Significant Impact. The Project is of the type of development previously accounted for the in 2014 Clovis General Plan. The Project will be primarily served through surface water and will be required to purchase water allocation rights through Fresno Irrigation District. Therefore, the Project is anticipated to be adequately served by City water. Further, the Project would comply with current Green Building Codes, as well as the water efficient landscape policies with regards to water conserving features. Lastly, the Project would be required to comply several water conserving policies, such as Policy 3.4 and 3.5 of the Open Space and Conservation Element. Overall, a **less-than-significant** impact would occur with no mitigation measures

c) *Would the project result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?*

Less-Than-Significant Impact. Because the Project is of the type previously planned and accounted for in the 2014 Clovis General Plan, it is not likely that the Project would result in a demand that would exceed the capacity of the wastewater treatment facility. Further, the Project is reviewed by the appropriate departments and agencies to ensure compliance and adequate capacity with regard to infrastructure, such as the ability to provide adequate wastewater treatment. Consequently, the impact would be **less than significant**. No mitigation measures are required.

d) *Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?*

Less-Than-Significant Impact. The Project would introduce new solid waste throughout construction and operation of the Project. However, the Project would be required to comply with Chapter 6.3.1, Recycling and Diversion of Construction and Demolition Debris, of the CMC during construction. This section of the CMC

requires that a minimum of fifty percent (50%) of waste tonnage from a project be diverted from disposal, and that all new residential (and commercial) construction within the City shall submit and obtain approval for a waste management plan prior to construction activities. Compliance with these measures would ensure that the Project does not result in a significant impact during the construction phase of the Project. Further, compliance with policies in the General Plan for the reduction and recycling of solid waste would serve to reduce impacts of solid waste by promoting and encouraging the recycling of materials. Lastly, according to the California Department of Resources Recycling and Recovery (CalRecycle), the City of Clovis has exceeded their target per resident disposal rate of 4.7 pounds per day per resident, meaning that Clovis residents are actually producing less solid waste than the target set by the State.[14] Consequently, a **less-than-significant** impact would occur. No mitigation measures are required.

e) *Would the project comply with federal, state, and local management reduction statutes and regulations related to solid waste?*

Less-Than-Significant. See discussion 19d above.

20. WILDFIRE

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:	**Potentially Significant Impact**	**Less Than Significant With Mitigation Incorporated**	**Less Than Significant Impact**	**No Impact**
a. Substantially impair an adopted emergency response plan or emergency evacuation plan?			X	
b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?			X	
c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?			X	
d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?			X	

ENVIRONMENTAL SETTING

The Project site is located on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site's topography is generally flat and characterized somewhat with fruit orchards.

14 Calrecycle, City of Clovis, https://www2.calrecycle.ca.gov/LGCentral/DiversionProgram/JurisdictionDiversionPost2006, accessed September 30, 2024.

DISCUSSION

a) *Would the project substantially impair an adopted emergency response plan or emergency evacuation plan?*

Less-Than-Significant Impact. The Project is located at a site that is surrounded by primarily agricultural uses designated for future residential development at varying densities. Although the Project could result in temporary traffic detouring or closures during buildout, these delays would be temporary and would be coordinated with the City Engineering Division and other departments to ensure safe access to and from the area is maintained. Further, the site itself would be reviewed by City departments to ensure adequate site access and circulation is provided in the event of an emergency. Overall, a **less-than-significant** impact would occur with no mitigation measures.

b) *Would the project, due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?*

Less-Than-Significant Impact. The general vicinity of the site is flat, therefore, is not of the type of topography nor in a location likely to exacerbate wildfire risks. Additionally, the Project site is located in an area mapped by CAL FIRE as "unzoned" per the Fire Hazard Severity Zone Viewer, indicating the area is not located in an area within State Responsibility Areas into Fire Hazard Severity Zones. Further, the Project would be required to comply with the latest fire codes and would be required to include sprinklers on the interior of the homes and require installation of several hydrants throughout the site. Lastly, the site plans would undergo review by the Clovis Fire Department to ensure that all fire safety regulations are met. Therefore, a **less-than-significant** impact would occur with no mitigation measures.

c) *Would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?*

Less-Than-Significant Impact. As a new development, installation of a private roadway network, water lines, and power lines would be required; however, these utilities and infrastructure are typical of residential development and would be constructed to standards of the respective agencies and departments which oversee them, as well as be required to comply all necessary plan review and permitting requirements of such departments and agencies. As such, a **less-than-significant** impact would occur. No mitigation measures are required.

d) *Would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?*

Less-Than-Significant Impact. The City of Clovis has generally flat topography, and the site itself is in an area that is not in close proximity to hillsides that would expose people or structures to significant risks associates with downstream flooding or landslides as a result of runoff or post-fire slope instability. As such, a **less-than-significant** impact would occur.

21. MANDATORY FINDINGS OF SIGNIFICANCE

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Does the project have the potential to			X	

substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?				
b. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?			X	
c. Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?			X	

ENVIRONMENTAL SETTING

The Project site is located within the City of Clovis' sphere of influence on a primarily undeveloped site with some orchards, a single-family residence, and accessory buildings. The site's topography is generally flat and characterized somewhat with fruit orchards.

DISCUSSION

a) *Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?*

Less-Than-Significant Impact. As discussed throughout the Initial Study, the Project would result in a significant and unavoidable VMT impact. However, during preparation of the General Plan, an EIR was prepared, along with a Statement of Overriding Consideration, that discussed the potential environmental impacts and required mitigation measures to be implemented/followed by all future projects that are consistent with the General Plan. The proposed project would be conditioned to implement and follow these measures. Therefore, though the proposed project would have a significant and unavoidable transportation impact under CEQA, no further mitigation measure would be required for the project related to VMT. Outside of transportation, the project will not have any impacts on fish, wildlife, plants, or animal communities. Therefore, the Project would have a **less-than-significant** impact as it would not substantially degrade the quality of the environment.

b) *Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?*

Less-Than-Significant Impact. The Project includes mitigation measures in certain topic areas identified throughout this Initial Study, which would reduce potential impacts to a less-than-significant level. None of these impacts would be cumulatively considerable since most are either temporary impacts from construction or site specific. With the exception of air quality that is generally considered measurable cumulatively, the Project was found to have a significant and unavoidable impact as discussed in the GHG section of this Initial Study. As such, this Project would be required to comply with those same regulations, ensuring adequate mitigation as development occurs. Lastly, while the Project would introduce 266 new residential units to an existing vacant site, the type of use was previously accounted for in the 2014 Clovis General Plan buildout. Thus, a **less-than-significant** impact would occur with no mitigation measures.

c) *Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?*

Less-Than-Significant Impact. As discussed throughout the document, although the Project would result in an increased VMT impact, the integration of mitigation measures as prescribed for all projects consistent with the General Plan will be required. Thus ensuring the Project will not affect human beings either directly or indirectly that would result in an impact that could not be mitigated to a less-than-significant level. Therefore, a **less-than-significant** impact would occur. No migration measures are required.

I. Report Preparation

LEAD AGENCY

Marissa Jensen, MA
Assistant Planner
City of Clovis
Planning & Development Services

TECHNICAL STUDIES

Air Quality and Greenhouse Gas Analysis Memorandum
Peach and Behymer Residential Project
LSA Associates, Inc.

Biological Resources Assessment
Peach and Behymer Residential Project
LSA Associates, Inc.

Noise and Vibration Impact Analysis
De Young Peach and Behymer Residential Project
LSA Associates, Inc.

Cultural Resource Assessment
DeYoung Development, City of Clovis
Melinda A. Peak
Peak & Associates, Inc.

Transportation Impact Analysis
De Young Properties Peach and Behymer Project
LSA Associates, Inc.

California Agricultural LESA Worksheets
De Young Properties Peach and Behymer Project
LSA Associates, Inc.

MITIGATION MONITORING AND REPORTING PROGRAM
TM6482

Proposed Mitigation	Summary of Measure	Monitoring Responsibility	Timing	Verification (Date and Initials)
Agriculture and Forestry Resources				
AGR-1	The Project applicant shall prepare or fund an agricultural resource evaluation prior to project approval. The resource evaluation shall use generally accepted methodologies (such as the Land Evaluation and Site Assessment Model) to identify the potentially significant impact of the loss of agricultural land. If the loss of agricultural land is determined to be a potentially significant impact, the resource evaluation shall consider the economic viability of future agricultural use of the property. If the agricultural resource is considered significant and future agricultural use is considered economically viable, the conversion will be deemed significant. The City shall require mitigation by one of the following methods: • Mitigation at a 1:1 ration of converted to preserved acreage through a regional conservation easement, or payment of its valuation equivalent if a fee mitigation program is established. If 1:1 mitigation is determined to be economically infeasible, based upon all of the evidence, the ratio may be reduced to an economically feasible ratio or no further mitigation shall be required. This determination shall be made by the City's Director of Planning and Development	City of Clovis Planning	*Prior to Permits and During Construction*	

Proposed Mitigation	Summary of Measure	Monitoring Responsibility	Timing	Verification (Date and Initials)
	Services based upon substantial evidence in the record; or • Other potential mitigation which achieves the same mitigating effect as the measures identified above, consistent with the CEQA Statutes and Guidelines. This determination shall be made by the City's Director of Planning and Development Services based upon substantial evidence in the record.			
AGR-2	Pursuant to Clovis Municipal Code Section 9.40.170 and the California Civil Code Section 3482.5, prior to approval of building occupancy permits the Project developer shall provide residents of the Project site Right-To-Farm notifications. The Right-To-Farm notification would advise future occupants of the Project site that they are residing adjacent to agricultural land that has been active for three or more years and that they should expect continued activities associated with agricultural production.	City of Clovis Planning	*Prior to Permits and During Construction*	
Air Quality				
AIR-1	Consistent with San Joaquin Valley Air Pollution Control District (SJVAPCD) Regulation VIII (Fugitive PM10 Prohibitions), the following controls are required to be included as specifications for the proposed project and implemented at the construction site:	City of Clovis Planning	*Prior to Permits and During Construction*	

Proposed Mitigation	Summary of Measure	Monitoring Responsibility	Timing	Verification (Date and Initials)
	• All disturbed areas, including storage piles, which are not being actively utilized for construction purposes, shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant or covered with a tarp or other suitable cover or vegetative ground cover. • All on-site unpaved roads and off-site unpaved access roads shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant. • All land clearing, grubbing, scraping, excavation, land leveling, grading, cut and fill, and demolition activities shall be effectively controlled of fugitive dust emissions utilizing application of water or by presoaking. • When materials are transported off site, all material shall be covered, or effectively wetted to limit visible dust emissions, and at least 6 inches of freeboard space from the top of the container shall be maintained. • All operations shall limit or expeditiously remove the accumulation of mud or dirt from adjacent public streets at the end of each workday. (The use of dry rotary brushes is expressly prohibited except where preceded or accompanied by sufficient wetting to limit			

Proposed Mitigation	Summary of Measure	Monitoring Responsibility	Timing	Verification (Date and Initials)
	the visible dust emissions. Use of blower devices is expressly forbidden). • Following the addition of materials to, or the removal of materials from, the surface of outdoor storage piles, said piles shall be effectively stabilized of fugitive dust emissions utilizing sufficient water or chemical stabilizer/suppressant.			
Biological Resources				
BIO-1	**Pre-Activity Surveys for Swainson's Hawk Nests.** If Project activities must occur during the nesting season (February 15 to August 31), pre-activity surveys shall be conducted for Swainson's hawk nests within 14 days prior to the start of construction. The surveys would be conducted within the Project site plus a 0.5-mile buffer. The survey shall be conducted in accordance with the methodology outlined in existing protocols. Note that Sawinson's hawks may establish a nest at any time from February through June; multiple Swainson's hawks nest surveys may be necessary in one season at the direction of a qualified biologist, depending on the timing of Project construction. If no Swainson's hawk nests are found, no further action is required.	City of Clovis Planning	*Prior to Permits and During Construction*	
BIO-2	**Swainson's Hawk Nest Avoidance.** If an active Swainson's hawk nest is discovered at any time within 0.5 mile of active construction, a qualified	City of Clovis Planning	*Prior to Permits and During Construction*	

Proposed Mitigation	Summary of Measure	Monitoring Responsibility	Timing	Verification (Date and Initials)
	biologist shall complete an assessment of the potential for current construction activities to impact the nest. The assessment shall consider the type of construction activities to impact the nest. The assessment shall consider the type of construction activities, the location of construction relative to the nest, the visibility of construction activities from the nest location, and other existing disturbances in the area that are not related to construction activities of this Project. Based on this assessment, the biologist shall determine if construction activities can proceed and if nest monitoring will be required. At a minimum, construction activities shall not occur within 100 feet of an active nest and shall require monitoring if within 500 feet of an active nest. These buffers may need to increase depending on the sensitivity of the nest location.			
BIO-3	**Pre-Activity Nesting Bird Surveys.** If Project activities must occur during the nesting season (February 15 to August 31), pre-activity nesting bird surveys shall be conducted no more than 7 days prior to the start of construction at the construction site plus a 250-foot buffer for songbirds and a 500-foot buffer for raptors (other than Swainson's hawk). If no active nests are found, no further action is required; however, note that nests may become active at any time throughout the summer, including when construction activities are occurring. If active nests are found during the survey or at any time during			

Proposed Mitigation	Summary of Measure	Monitoring Responsibility	Timing	Verification (Date and Initials)
	Project construction, an avoidance buffer ranging from 50 feet to 350 feet shall be required, as determined by a qualified biologist. The avoidance buffer shall remain in place until the biologist has determined that the young are no longer reliant on the nest. Work may occur within the avoidance buffer under the approval and guidance of the biologist. The biologist shall have the ability to stop construction if nesting adults show signs of distress.			
Cultural Resources				
CULT-1	If archaeological or tribal resources or materials are encountered during construction activities, all work in the immediate vicinity of the find shall halt until a qualified professional archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants. If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation.	City of Clovis Planning	*Prior to Permits and During Construction*	

Proposed Mitigation	Summary of Measure	Monitoring Responsibility	Timing	Verification (Date and Initials)
	If a potentially-eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met.			
CULT-2	If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health and Safety Code and Project shall follow the procedures and protocols set for un CEQA Guidelines Section 15064.4(e)(1). If human remains are identified to be those of Native American, California Health and Safety Code 7050.5 requires the County coroner notify the NAHC within 24 hours of discovery. All reports, correspondence, and determinations regarding the discovery of human remains on the project site shall be submitted to the Lead Agency.	City of Clovis Planning	*Prior to Permits and During Construction*	
Geological Resources				
GEO-1	If prehistoric or historic-era cultural materials are encountered during construction activities, all work	City of Clovis Planning	*Prior to Permits and During Construction*	

Proposed Mitigation	Summary of Measure	Monitoring Responsibility	Timing	Verification (Date and Initials)
	in the immediate vicinity of the find shall halt until a qualified professional archaeologist and/or paleontologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants. If the qualified professional determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation. If a potentially-eligible resource is encountered, then the qualified professional archaeologist and/or paleontologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met.			
Tribal Cultural Resources				
TCR-1	If archaeological or tribal resources or materials are encountered during construction activities, all work	City of Clovis Planning	*Prior to Permits and During Construction*	

Proposed Mitigation	Summary of Measure	Monitoring Responsibility	Timing	Verification (Date and Initials)
	in the immediate vicinity of the find shall halt until a qualified professional archaeologist, can evaluate the significance of the find and make recommendations. Cultural resource materials may include prehistoric resources such as flaked and ground stone tools and debris, shell, bone, ceramics, and fire-affected rock as well as historic resources such as glass, metal, wood, brick, or structural remnants. If the qualified professional archaeologist determines that the discovery represents a potentially significant cultural resource, additional investigations may be required to mitigate adverse impacts from project implementation. These additional studies may include avoidance, testing, and evaluation or data recovery excavation. If a potentially-eligible resource is encountered, then the qualified professional archaeologist, the Lead Agency, and the project proponent shall arrange for either 1) total avoidance of the resource or 2) test excavations to evaluate eligibility and, if eligible, total data recovery. The determination shall be formally documented in writing and submitted to the Lead Agency as verification that the provisions for managing unanticipated discoveries have been met.			
TCR-2	If human remains are discovered during construction or operational activities, further excavation or disturbance shall be prohibited pursuant to Section 7050.5 of the California Health	City of Clovis Planning	*Prior to Permits and During Construction*	

Proposed Mitigation	Summary of Measure	Monitoring Responsibility	Timing	Verification (Date and Initials)
	and Safety Code and Project shall follow the procedures and protocols set for un CEQA Guidelines Section 15064.4(e)(1). If human remains are identified to be those of Native American, California Health and Safety Code 7050.5 requires the County coroner notify the NAHC within 24 hours of discovery. All reports, correspondence, and determinations regarding the discovery of human remains on the project site shall be submitted to the Lead Agency.			

AIR QUALITY AND GREENHOUSE GAS IMPACT ANALYSIS

PEACH AND BEHYMER RESIDENTIAL PROJECT

CITY OF CLOVIS, CALIFORNIA

LSA

October 2024

AIR QUALITY AND GREENHOUSE GAS IMPACT ANALYSIS

PEACH AND BEHYMER RESIDENTIAL PROJECT

CITY OF CLOVIS, CALIFORNIA

Submitted to:

Juli Kutka
De Young Properties
677 W. Palmdon Drive, #208
Clovis, California 93612

Prepared by:

LSA
2565 Alluvial Avenue, Suite 112
Clovis, California 93611
(559) 490-1210

Project No. 20241700

October 2024

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FIGURES AND TABLES

FIGURES

TABLES

LIST OF ABBREVIATIONS AND ACRONYMS

°C	degrees Celsius
°F	degrees Fahrenheit
µg/m3	micrograms per cubic meter
AAQS	ambient air quality standards
AB	Assembly Bill
APN	Assessor's Parcel Number
APS	Alternative Planning Strategy
AQMP	Air Quality Management Plan
BPS	best performance standard
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CALGreen Code	California Green Building Standards Code
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CARB Handbook	California Air Resources Board's Air Quality and Land Use Handbook
CCAA	California Clean Air Act
CCAP	Climate Change Action Plan
CEQA	California Environmental Quality Act
CH_4	methane
City	City of Clovis

CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	CO2 equivalents
DPM	diesel particulate matter
EO	Executive Order
EV	electric vehicles
Fresno COG	Fresno Council of Governments
GAMAQI	Guidance for Assessing and Mitigating Air Quality Impacts
GHG	greenhouse gas
GHGRx	Greenhouse Gas Reduction Exchange
GWP	Global Warming Potential
HFC	hydrofluorocarbon
HI	Hazard Index
HRA	Health Risk Assessment
HVAC	heating, ventilation, and air conditioning
IPCC	Intergovernmental Panel on Climate Change
ISR	Indirect Source Review
LED	light-emitting diode
LESA	Land Evaluation and Site Assessment
MEI	maximum exposed individual
MERV	minimum efficiency reporting value
MMT	million metric tons
MPO	Metropolitan Planning Organization
MT	metric tons

N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NO_2	nitrogen dioxide
NOA	naturally occurring asbestos
NO_X	nitrogen oxides
O_3	ozone
OEHHA	California Office of Environmental Health Hazard Assessment
Pb	lead
PFC	perfluorocarbon
PM	particulate matter
PM_{10}	particulate matter that is 10 microns or less in diameter
$PM_{2.5}$	particulate matter that is 2.5 microns or less in diameter
project	Peach and Behymer Residential Project
RCM	Regulatory Compliance Measure
ROC	reactive organic compound
ROG	reactive organic gas
RPS	Renewables Portfolio Standard
RTP	Regional Transportation Plan
SCS	Sustainable Communities Strategy
SF_6	sulfur hexafluoride
SJVAPCD	San Joaquin Valley Air Pollution Control District
SO_2	sulfur dioxide
TAC	toxic air contaminant
TIA	Transportation Impact Analysis

UNFCCC	United Nations Framework Convention on Climate Change
USEPA	United States Environmental Protection Agency
VMT	vehicle miles traveled
VOC	volatile organic compound

INTRODUCTION

This Air Quality and Greenhouse Gas (GHG) Impact Analysis has been prepared to evaluate the potential air quality and GHG emissions impacts associated with the Peach and Behymer Residential Project (project) in unincorporated Fresno County, California and proposed to be annexed into the City of Clovis. This analysis was prepared using methods and assumptions recommended in the San Joaquin Valley Air Pollution Control District's (SJVAPCD) *Guidance for Assessing and Mitigating Air Quality Impacts* (GAMAQI).[1] This analysis includes a description of the existing regulatory framework, an assessment of project construction and operation period emissions, and an assessment of GHG emissions and energy impacts resulting from the proposed project.

PROJECT LOCATION AND DESCRIPTION

The approximately 37-acre project site is located southeast of the intersection of East Behymer Avenue and North Peach Avenue Assessor's Parcel Numbers (APNs) 556-010-28 and 556-01-029, in unincorporated Fresno County. The project site is currently primarily planted with orchards and contains two existing residential units that would be demolished as part of the project. Figure 1 shows the project location, and Figure 2 shows the project's site plan.

The proposed project is located within City's sphere of influence (SOI) and within the northwest urban center growth area. The proposed project would be annexed into the City of Clovis and would include the construction of a 266-unit single-family residential development. The proposed project would include approximately 0.84 acre of park space. The project is consistent with the City's General Plan. Based on the project's Transportation Impact Analysis (TIA), the proposed project is estimated to generate 2,508 average daily trips.[2] The proposed project would comply with the 2022 California Green Building Standards Code (CALGreen Code) building measures. In addition, based on information provided by the Project Applicant, the proposed project would be all-electric and is anticipated to include the following sustainable features[3]:

- Installation of ENERGY STAR dishwashers, bathroom exhaust fans, water heaters, and windows;
- Installation of high-efficiency heating, ventilation, and air conditioning (HVAC) systems and programmable thermostats;
- Installation of solar on each residence per CALGreen Code requirements;
- Installation of a breaker and wiring for electric vehicles (EV) at each residence;
- Installation of cool roof tiles and high-performance, formaldehyde-free insulation;

1 San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. *Guidance for Assessing and Mitigating Air Quality Impacts*. March 19. Website: www.valleyair.org/transportation/ceqa_idx.htm (accessed June 2024).
2 LSA. 2024. *De Young Properties Peach and Behymer Project Transportation Impact Analysis.* August.
3 De Young Properties, 2024. *De Young EnergySmart Home Features.* Website: https://deyoungproperties.com/smart-home/#green-smart (accessed June 2024).

- Installation of minimum efficiency reporting value (MERV)-8 filters;
- Installation of 100 percent light-emitting diode (LED) lighting;
- Use of drip irrigation;
- Installation of low-flow water fixtures;
- Use of low volatile organic compound (VOC) paints;
- Recycle up to 90 percent of construction waste; and
- Independent inspections at random for energy-efficiency verification.

Construction activities for the project would include demolition, site preparation, grading, building construction, paving, and architectural coating. Construction of the proposed project is anticipated to begin in 2024. The proposed project would not require the import or export of soil but would include the demolition of approximately 6,500 square feet of existing buildings. Grading, site preparation, and building activities would involve the use of standard earthmoving equipment such as large excavators, cranes, and other related equipment.

EXISTING LAND USES IN THE PROJECT AREA

For the purposes of this analysis, sensitive receptors are areas of the population that have an increased sensitivity to air pollution or environmental contaminants. Sensitive receptor locations include residences, schools, daycare centers, hospitals, parks, and similar uses that are sensitive to air quality. Impacts on sensitive receptors are of particular concern because those receptors are the population most vulnerable to the effects of air pollution.

The project site is surrounded primarily by agricultural uses with some residential and commercial uses. The areas adjacent to the project site include the following uses:

- **North:** Existing agricultural uses and a few single-family residences opposite East Behymer Avenue;
- **East:** Existing agricultural uses and a single-family residence at the southeast corner of the project site;
- **South:** Existing agricultural uses and a single-family residence at the southeast corner of the project site; and
- **West:** Existing agricultural uses, vacant land, and a few single-family residences.

The closest sensitive receptors to the project site include single-family residences located approximately 75 feet west of the project site and 100 feet north of the project site.

Figure 1: Regional Project Location

Figure 2: Project Site

BACKGROUND

This section provides current background information on air pollutants and their health effects. It also provides current regulatory background information, including information from the California Air Resources Board's (CARB) Air Quality and Land Use Handbook[4] (CARB Handbook), a description of the general health risks of toxics, and the significance criteria for project evaluation.

AIR POLLUTANTS AND HEALTH EFFECTS

Both State and federal governments have established health-based ambient air quality standards (California Ambient Air Quality Standards [CAAQS] and National Ambient Air Quality Standards [NAAQS], respectively) for six criteria air pollutants:[5] carbon monoxide (CO), ozone (O_3), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), lead (Pb), and suspended particulate matter (PM). In addition, the State has set standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety. Long-term exposure to elevated levels of criteria pollutants may result in adverse health effects. However, emission thresholds established by an air district are used to manage total regional emissions within an air basin based on the air basin's attainment status for criteria pollutants. These emission thresholds were established for individual projects that would contribute to regional emissions and pollutant concentrations and could adversely affect or delay the projected attainment target year for certain criteria pollutants.

Because of the conservative nature of the thresholds and the basin-wide context of individual project emissions, there is no known direct correlation between a single project and localized air quality-related health effects. One individual project that generates emissions exceeding a threshold does not necessarily result in adverse health effects for residents in the project vicinity. This condition is especially true when the criteria pollutants exceeding thresholds are those with regional effects, such as ozone precursors like nitrogen oxides (NO_X) and VOCs.

Occupants of facilities such as schools, daycare centers, parks and playgrounds, hospitals, and nursing and convalescent homes are considered to be more sensitive than the general public to air pollutants because these population groups have increased susceptibility to respiratory disease. Persons engaged in strenuous outdoor work or exercise also have increased sensitivity to poor air quality. Residential areas are considered more sensitive to air quality conditions, compared to commercial and industrial areas, because people generally spend longer periods of time at their residences, with greater associated exposure to ambient air quality conditions. Recreational uses are also considered sensitive compared to commercial and industrial uses due to greater exposure to ambient air quality conditions associated with exercise.

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4 California Air Resources Board (CARB). 2005. *Air Quality and Land Use Handbook: A Community Health Perspective.* April.

5 Criteria pollutants are defined as those pollutants for which the federal and State governments have established ambient air quality standards, or criteria, for outdoor concentrations in order to protect public health.

Ozone

Rather than being directly emitted, O_3 (smog) is formed by photochemical reactions between NO_X and VOCs. O_3 is a pungent, colorless gas. Elevated ozone concentrations result in reduced lung function, particularly during vigorous physical activity. This health problem is particularly acute in sensitive receptors such as the sick, elderly, and young children. O_3 levels peak during the summer and early fall months.

Carbon Monoxide

CO is formed by the incomplete combustion of fossil fuels, almost entirely from automobiles. It is a colorless, odorless gas that can cause dizziness, fatigue, and impairments to central nervous system functions. CO passes through the lungs into the bloodstream, where it interferes with the transfer of oxygen to body tissues.

Particulate Matter

PM is the term used for a mixture of solid particles and liquid droplets found in the air. Coarse particles are those that are 10 microns or less in diameter (PM_{10}). Fine, suspended particulate matter with an aerodynamic diameter of 2.5 microns or less ($PM_{2.5}$), is not readily filtered out by the lungs. Nitrates, sulfates, dust, and combustion particulates are major components of PM_{10} and $PM_{2.5}$. These small particles can be directly emitted into the atmosphere as byproducts of fuel combustion; through abrasion, such as tire or brake lining wear; or through fugitive dust (wind or mechanical erosion of soil). They can also be formed in the atmosphere through chemical reactions. Particulates may transport carcinogens and other toxic compounds that adhere to the particle surfaces and can enter the human body through the lungs.

Nitrogen Dioxide

NO_2 is a reddish-brown gas that is a byproduct of combustion processes. Automobiles and industrial operations are the main sources of NO_2. Aside from its contribution to ozone formation, NO_2 also contributes to other pollution problems, including a high concentration of fine particulate matter, poor visibility, and acid deposition. NO_2 may be visible as a coloring component on high pollution days, especially in conjunction with high ozone levels. NO_2 decreases lung function and may reduce resistance to infection.

Sulfur Dioxide

SO_2 is a colorless, irritating gas formed primarily from incomplete combustion of fuels containing sulfur. Industrial facilities also contribute to gaseous SO_2 levels in the region. SO_2 irritates the respiratory tract, can injure lung tissue when combined with fine particulate matter, and reduces visibility and the level of sunlight.

Lead

Leaded gasoline (phased out in the United States beginning in 1973), paint (on older houses and cars), smelters (metal refineries), and the manufacture of lead storage batteries have been the primary sources of lead released into the atmosphere. Lead has multiple adverse neurotoxic health effects, and children are at special risk. Some lead-containing chemicals cause cancer in animals.

Lead levels in the air have decreased substantially since leaded gasoline was eliminated. Ambient lead concentrations are only monitored on an as-warranted, site-specific basis in California. On October 15, 2008, the United States Environmental Protection Agency (USEPA) strengthened the NAAQS for lead by lowering it from 1.5 to 0.15 micrograms per cubic meter ($\mu g/m^3$). The USEPA revised the monitoring requirements for lead in December 2010. These requirements focus on airports and large urban areas, resulting in an increase in 76 monitors nationally.

Volatile Organic Compounds

VOCs (also known as reactive organic gases [ROGs] and reactive organic compounds [ROCs]) are formed from the combustion of fuels and the evaporation of organic solvents. VOCs are not defined as criteria pollutants, however, because VOCs accumulate in the atmosphere more quickly during the winter, when sunlight is limited and photochemical reactions are slower, they are a prime component of the photochemical smog reaction. There are no attainment designations for VOCs.

Toxic Air Contaminants

In addition to the criteria pollutants discussed above, toxic air contaminants (TACs) are another group of pollutants of concern. TACs are injurious in small quantities and are regulated by the USEPA and the CARB. Some examples of TACs include benzene, butadiene, formaldehyde, and hydrogen sulfide. The identification, regulation, and monitoring of TACs is relatively recent compared to that for criteria pollutants.

TACs do not have ambient air quality standards (AAQS), but are regulated by the USEPA, the CARB, and the SJVAPCD. In 1998, the CARB identified particulate matter from diesel-fueled engines as a TAC. The CARB has completed a risk management process that identified potential cancer risks for a range of activities using diesel-fueled engines.[6] High-volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic (e.g., distribution centers and truck stops) were identified as posing the highest risk to adjacent receptors. Other facilities associated with increased risk include warehouse distribution centers, large retail or industrial facilities, high-volume transit centers, and schools with a high volume of bus traffic. Health risks from TACs are a function of both concentration and duration of exposure.

Unlike TACs emitted from industrial and other stationary sources noted above, most diesel particulate matter (DPM) is emitted from mobile sources—primarily "off-road" sources such as construction and mining equipment, agricultural equipment, and truck-mounted refrigeration units, as well as "on-road" sources such as trucks and buses traveling on freeways and local roadways.

Although not specifically monitored, recent studies indicate that exposure to DPM may contribute significantly to a cancer risk (a risk of approximately 500 to 700 in 1,000,000) that is greater than all other measured TACs combined.[7] The technology for reducing DPM emissions from heavy-duty trucks is well established, and both State and federal agencies are moving aggressively to regulate engines and emission control systems to reduce and remediate diesel emissions. The CARB anticipated that by

6 CARB. 2000. Stationary Source Division and Mobile Source Control Division. *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles.* October.

7 Ibid.

2020, average statewide DPM concentrations will decrease by 85 percent from levels in 2000 with full implementation of the CARB's Diesel Risk Reduction Plan,[8] meaning that the statewide health risk from DPM is expected to decrease from 540 cancer cases in 1,000,000 to 21.5 cancer cases in 1,000,000. The CARB 2000 Diesel Risk Reduction Plan is still the most recent version and has not been updated.

Table A summarizes the sources and health effects of air pollutants discussed in this section. Table B presents a summary of CAAQS and NAAQS.

Table A: Sources and Health Effects of Air Pollutants

Pollutants	Sources	Primary Effects
Carbon Monoxide (CO)	● Incomplete combustion of fuels and other carbon-containing substances, such as motor exhaust ● Natural events, such as decomposition of organic matter	● Reduced tolerance for exercise ● Impairment of mental function ● Impairment of fetal development ● Death at high levels of exposure ● Aggravation of some heart diseases (angina)
Nitrogen Dioxide (NO_2)	● Motor vehicle exhaust ● High temperature stationary combustion ● Atmospheric reactions	● Aggravation of respiratory illness ● Reduced visibility ● Reduced plant growth ● Formation of acid rain
Ozone (O_3)	● Atmospheric reaction of organic gases with nitrogen oxides in sunlight	● Aggravation of respiratory and cardiovascular diseases ● Irritation of eyes ● Impairment of cardiopulmonary function ● Plant leaf injury
Lead (Pb)	● Contaminated soil	● Impairment of blood functions and nerve construction ● Behavioral and hearing problems in children
Suspended Particulate Matter ($PM_{2.5}$ and PM_{10})	● Stationary combustion of solid fuels ● Construction activities ● Industrial processes ● Atmospheric chemical reactions	● Reduced lung function ● Aggravation of the effects of gaseous pollutants ● Aggravation of respiratory and cardiorespiratory diseases ● Increased cough and chest discomfort ● Soiling ● Reduced visibility
Sulfur Dioxide (SO_2)	● Combustion of sulfur-containing fossil fuels ● Smelting of sulfur-bearing metal ores Industrial processes	● Aggravation of respiratory diseases (asthma, emphysema) ● Reduced lung function ● Irritation of eyes ● Reduced visibility ● Plant injury ● Deterioration of metals, textiles, leather, finishes, coatings, etc.

Source: California Air Resources Board (2015).

[8] CARB. 2000. Stationary Source Division and Mobile Source Control Division. *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles.* October.

Table B: Federal and State Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[1]		Federal Standards[2]		
		Concentration[3]	Method[4]	Primary[3,5]	Secondary[3,6]	Method[7]
Ozone (O_3)[8]	1-Hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	–	Same as Primary Standard	Ultraviolet Photometry
	8-Hour	0.07 ppm (137 µg/m³)		0.070 ppm (137 µg/m³)		
Respirable Particulate Matter (PM_{10})[9]	24-Hour	50 µg/m³	Gravimetric or Beta Attenuation	150 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m³		–		
Fine Particulate Matter ($PM_{2.5}$)[9]	24-Hour	-		35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	9.0 µg/m³ [15]		
Carbon Monoxide (CO)	8-Hour	9.0 ppm (10 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m³)	–	Non-Dispersive Infrared Photometry (NDIR)
	1-Hour	20 ppm (23 mg/m³)		35 ppm (40 mg/m³)		
	8-Hour (Lake Tahoe)	6 ppm (7 mg/m³)		–	–	
Nitrogen Dioxide (NO_2)[10]	Annual Arithmetic Mean	0.03 ppm (57 µg/m³)	Gas Phase Chemi-luminescence	53 ppb (100 µg/m³)	Same as Primary Standard	Gas Phase Chemi-luminescence
	1-Hour	0.18 ppm (339 µg/m³)		100 ppb (188 µg/m³)	-	
Lead (Pb)[12,13]	30-Day Average	1.5 µg/m³	Atomic Absorption	–	–	High-Volume Sampler and Atomic Absorption
	Calendar Quarter	–		1.5 µg/m³ (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average[9]	–		0.15 µg/m³		
Sulfur Dioxide (SO_2)[11]	24-Hour	0.04 ppm (105 µg/m³)	Ultraviolet Fluorescence	0.14 ppm (for certain areas)	–	Ultraviolet Fluorescence; Spectro-photometry (Pararosaniline Method)
	3-Hour	–		–	0.5 ppm (1300 µg/m³)	
	1-Hour	0.25 ppm (655 µg/m³)		75 ppb (196 µg/m³)[11]	–	
	Annual Arithmetic Mean	–		0.030 ppm (for certain areas)[11]	–	
Visibility-Reducing Particles[12]	8-Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape.	No Federal Standards		
Sulfates	24-Hour	25 µg/m³	Ion Chromatography			
Hydrogen Sulfide	1-Hour	0.03 ppm (42 µg/m³)	Ultraviolet Fluorescence			
Vinyl Chloride[10]	24-Hour	0.01 ppm (26 µg/m³)	Gas Chromatography			

Source: California Air Resources Board (2016) (Website: https://www.arb.ca.gov/research/aaqs/aaqs2.pdf).

Table notes are provided on the following page.

[1] California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter (PM_{10}, $PM_{2.5}$, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California Ambient Air Quality Standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[2] National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m^3 is equal to or less than one. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over 3 years, are equal to or less than the standard. Contact USEPA for further clarification and current national policies.

[3] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[4] Any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.

[5] National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

[6] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[7] Reference method as described by the USEPA. An “equivalent method” of measurement may be used but must have a “consistent relationship to the reference method” and must be approved by the USEPA.

[8] On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[9] On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m^3 to 12.0 µg/m^3. The existing national 24- hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m^3, as was the annual secondary standard of 15 µg/m^3. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m^3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

[10] To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

[11] On June 2, 2010, a new 1-hour SO_2 standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

[12] The CARB has identified lead and vinyl chloride as ‘toxic air contaminants’ with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[13] The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m^3 as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

[14] In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are “extinction of 0.23 per kilometer” and “extinction of 0.07 per kilometer” for the statewide and Lake Tahoe Air Basin standards, respectively.

[15] On February 7, 2024, the federal annual $PM_{2.5}$ standard was revised from 12.0 µg/m^3 to 9.0 µg/m^3.

°C = degrees Celsius
µg/m^3 = micrograms per cubic meter
CARB = California Air Resources Board
mg/m^3 = milligrams per cubic meter
PM_{10} = particulate matter less than 10 microns in size
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
ppb = parts per billion
ppm = parts per million
USEPA = United States Environmental Protection Agency

GREENHOUSE GASES

Global climate change is the observed increase in the average temperature of the Earth's atmosphere and oceans in recent decades. The Earth's average near-surface atmospheric temperature rose 0.6 ± 0.2 degrees Celsius (°C) or 1.1 ± 0.4 degrees Fahrenheit (°F) in the 20th century. The prevailing scientific opinion on climate change is that most of the warming observed over the last 50 years is attributable to human activities. The increased amounts of carbon dioxide (CO_2) and other GHGs are the primary causes of the human-induced component of warming. GHGs are released by the burning of fossil fuels, land clearing, agriculture, and other activities, and lead to an increase in the greenhouse effect.[9]

GHGs are present in the atmosphere naturally, are released by natural sources, or are formed from secondary reactions taking place in the atmosphere. The gases that are widely seen as the principal contributors to human-induced global climate change are:

- CO_2
- Methane (CH_4)
- Nitrous oxide (N_2O)
- Hydrofluorocarbons (HFCs)
- Perfluorocarbons (PFCs)
- Sulfur hexafluoride (SF_6)

Over the last 200 years, humans have caused substantial quantities of GHGs to be released into the atmosphere. These extra emissions are increasing GHG concentrations in the atmosphere, and enhancing the natural greenhouse effect, which is believed to be causing global warming. While manmade GHGs include naturally-occurring GHGs such as CO_2, methane, and N_2O, some gases, like HFCs, PFCs, and SF_6 are completely new to the atmosphere.

Certain gases, such as water vapor, are short-lived in the atmosphere. Others remain in the atmosphere for significant periods of time, contributing to climate change in the long term. Water vapor is excluded from the list of GHGs above because it is short-lived in the atmosphere and its atmospheric concentrations are largely determined by natural processes, such as oceanic evaporation. For the purposes of this air quality analysis, the term "GHGs" will refer collectively to the six gases listed above.

These gases vary considerably in terms of Global Warming Potential (GWP), which is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The global warming potential is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and length of time that the gas remains in the atmosphere

[9] The temperature on Earth is regulated by a system commonly known as the "greenhouse effect." Just as the glass in a greenhouse lets heat from sunlight in and reduces the heat escaping, greenhouse gases like carbon dioxide, methane, and nitrous oxide in the atmosphere keep the Earth at a relatively even temperature. Without the greenhouse effect, the Earth would be a frozen globe; thus, although an excess of greenhouse gas results in global warming, the naturally occurring greenhouse effect is necessary to keep our planet at a comfortable temperature.

("atmospheric lifetime"). The GWP of each gas is measured relative to carbon dioxide, the most abundant GHG; the definition of GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to the ratio of heat trapped by one unit mass of CO_2 over a specified time period. GHG emissions are typically measured in terms of pounds or tons of CO_2 equivalents (CO_2e). Table C shows the GWP for each type of GHG. For example, SF_6 is 23,500 times more potent at contributing to global warming than CO_2.

Table C: Global Warming Potential of Greenhouse Gases

Gas	Atmospheric Lifetime (Years)	Global Warming Potential (100-Year Time Horizon)
Carbon Dioxide	50-200	1
Methane	12	28
Nitrous Oxide	114	265
HFC-23	270	12,400
HFC-134a	14	1,300
HFC-152a	1.4	138
PFC: Tetrafluoromethane (CF_4)	50,000	6,630
PFC: Hexafluoromethane (C_2F_6)	10,000	11,100
Sulfur Hexafluoride (SF_6)	3,200	23,500

Source: *Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report (AR5)* (IPCC 2014).
CARB = California Air Resources Board
HFC = hydrofluorocarbons
PFC = perfluorocarbons

The following discussion summarizes the characteristics of the six GHGs and black carbon.

Carbon Dioxide

In the atmosphere, carbon generally exists in its oxidized form, as CO_2. Natural sources of CO_2 include the respiration (breathing) of humans, animals, and plants, volcanic out gassing, decomposition of organic matter and evaporation from the oceans. Human caused sources of CO_2 include the combustion of fossil fuels and wood, waste incineration, mineral production, and deforestation. Natural sources release approximately 150 billion tons of CO_2 each year, far outweighing the 7 billion tons of manmade emissions of CO_2 each year. Nevertheless, natural removal processes, such as photosynthesis by land- and ocean-dwelling plant species, cannot keep pace with this extra input of manmade CO_2, and consequently, the gas is building up in the atmosphere.

In 2021, total annual CO_2 accounted for approximately 81.2 percent of California's overall GHG emissions.[10] Transportation is the single largest source of CO_2 in California, which is primarily comprised of on-road travel. Electricity production, industrial and residential sources also make important contributions to CO_2 emissions in California.

[10] CARB. 2022b. *GHGs Descriptions & Sources in California*. Website: ww2.arb.ca.gov/ghg-descriptions-sources (accessed June 2024).

Methane

CH_4 is produced when organic matter decomposes in environments lacking sufficient oxygen. Natural sources include wetlands, termites, and oceans. Decomposition occurring in landfills accounts for the majority of human-generated CH_4 emissions in California and in the United States as a whole. Agricultural processes such as intestinal fermentation, manure management, and rice cultivation are also significant sources of CH_4 in California. Total annual emissions of CH_4 accounted for approximately 9.8 percent of GHG emissions in California in 2021.[11]

Nitrous Oxide

N_2O is produced naturally by a wide variety of biological sources, particularly microbial action in soils and water. Tropical soils and oceans account for the majority of natural source emissions. Nitrous oxide is a product of the reaction that occurs between nitrogen and oxygen during fuel combustion. Both mobile and stationary combustion emit N_2O, and the quantity emitted varies according to the type of fuel, technology, and pollution control device used, as well as maintenance and operating practices. Agricultural soil management and fossil fuel combustion are the primary sources of human-generated N_2O emissions in California. Nitrous oxide emissions accounted for approximately 3.4 percent of GHG emissions in California in 2021.[12]

Hydrofluorocarbons, Perfluorocarbons, and Sulfur Hexafluoride

HFCs are primarily used as substitutes for ozone-depleting substances regulated under the Montreal Protocol.[13] PFCs and SF_6 are emitted from various industrial processes, including aluminum smelting, semiconductor manufacturing, electric power transmission and distribution, and magnesium casting. There is no aluminum or magnesium production in California; however, the rapid growth in the semiconductor industry leads to greater use of PFCs. HFCs, PFCs, and SF_6 accounted for about 5.6 percent of GHG emissions in California in 2021.[14]

Black Carbon

Black carbon is the most strongly light-absorbing component of PM formed by burning fossil fuels such as coal, diesel, and biomass. Black carbon is emitted directly into the atmosphere in the form of $PM_{2.5}$ and is the most effective form of PM, by mass, at absorbing solar energy. Per unit of mass in the atmosphere, black carbon can absorb one million times more energy than CO_2.[15] Black carbon contributes to climate change both directly, such as absorbing sunlight, and indirectly, such as

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11 CARB. 2022b. *GHGs Descriptions & Sources in California*. Website: ww2.arb.ca.gov/ghg-descriptions-sources (accessed June 2024).

12 Ibid.

13 The Montreal Protocol is an international treaty that was approved on January 1, 1989, and was designated to protect the ozone layer by phasing out the production of several groups of halogenated hydrocarbons believed to be responsible for ozone depletion.

14 CARB. 2022. op. cit.

15 United States Environmental Protection Agency (USEPA). 2015. Black Carbon, Basic Information. February 14, 2017. Website: 19january2017snapshot.epa.gov/www3/airquality/blackcarbon/basic.html (accessed June 2024).

affecting cloud formation. However, because black carbon is short-lived in the atmosphere, it can be difficult to quantify its effect on global warming.

Most U.S. emissions of black carbon come from mobile sources (52 percent), particularly from diesel-fueled vehicles. The other major source of black carbon is open biomass burning, including wildfires, although residential heating and industry also contribute. The CARB estimates that the annual black carbon emissions in California will be reduced approximately 50 percent below 2013 levels by 2030.[16]

[16] CARB. 2017b. *Short-Lived Climate Pollutant Reduction Strategy.* March. Website: https://ww2.arb.ca.gov/sites/default/files/2020-07/final_SLCP_strategy.pdf (accessed June 2024).

REGULATORY SETTING

AIR QUALITY REGULATIONS

The USEPA and the CARB regulate direct emissions from motor vehicles. The SJVAPCD is the regional agency primarily responsible for regulating air pollution emissions from stationary sources (e.g., factories) and indirect sources (e.g., traffic associated with new development), as well as monitoring ambient pollutant concentrations.

Federal Regulations

Federal Clean Air Act

The 1970 federal Clean Air Act (CAA) authorized the establishment of national health-based air quality standards and also set deadlines for their attainment. The Federal Clean Air Act Amendments of 1990 changed deadlines for attaining national standards as well as the remedial actions required of areas of the nation that exceed the standards. Under the Clean Air Act, State and local agencies in areas that exceed the national standards are required to develop State Implementation Plans to demonstrate how they will achieve the national standards by specified dates.

State Regulations

California Clean Air Act

In 1988, the California Clean Air Act (CCAA) required that all air districts in the State endeavor to achieve and maintain CAAQS for CO, O_3, SO_2, and NO_2 by the earliest practical date. The CCAA provides districts with authority to regulate indirect sources and mandates that air quality districts focus particular attention on reducing emissions from transportation and area-wide emission sources. Each nonattainment district is required to adopt a plan to achieve a 5 percent annual reduction, averaged over consecutive 3-year periods, in district-wide emissions of each nonattainment pollutant or its precursors. A Clean Air Plan shows how a district would reduce emissions to achieve air quality standards. Generally, the State standards for these pollutants are more stringent than the national standards.

California Air Resources Board

The CARB is the State's "clean air agency." The CARB's goals are to attain and maintain healthy air quality, protect the public from exposure to toxic air contaminants, and oversee compliance with air pollution rules and regulations.

Assembly Bill 2588 Air Toxics "Hot Spots" Information and Assessment Act. Under Assembly Bill (AB) 2588, stationary sources of air pollutants are required to report the types and quantities of certain substances their facilities routinely released into the air. The goals of the Air Toxics "Hot Spots" Act are to collect emission data, identify facilities having localized impacts, determine health risks, and notify nearby residents of significant risks.

The California Air Resources Board Handbook. The CARB has developed an Air Quality and Land Use Handbook[17] which is intended to serve as a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process. According to the CARB Handbook, air pollution studies have shown an association between respiratory and other non-cancer health effects and proximity to high traffic roadways. Other studies have shown that diesel exhaust and other cancer-causing chemicals emitted from cars and trucks are responsible for much of the overall cancer risk from airborne toxics in California. The CARB Handbook recommends that county and city planning agencies strongly consider proximity to these sources when finding new locations for "sensitive" land uses such as homes, medical facilities, daycare centers, schools, and playgrounds.

Land uses that can produce air pollution sources of concern include freeways, rail yards, ports, refineries, distribution centers, chrome plating facilities, dry cleaners, and large gasoline service stations. Key recommendations in the CARB Handbook include taking steps to avoid siting new, sensitive land uses:

- Within 500 feet of a freeway, urban roads with 100,000 vehicles/day or rural roads with 50,000 vehicles/day;
- Within 1,000 feet of a major service and maintenance rail yard;
- Immediately downwind of ports (in the most heavily impacted zones) and petroleum refineries;
- Within 300 feet of any dry cleaning operation (for operations with two or more machines, provide 500 feet); and
- Within 300 feet of a large gas station (defined as a facility with a throughput of 3.6 million gallons per year or greater).

The CARB Handbook specifically states that its recommendations are advisory and acknowledges land use agencies have to balance other considerations, including housing and transportation needs, economic development priorities, and other quality of life issues.

The recommendations are generalized and do not consider site-specific meteorology, freeway truck percentages, or other factors that influence risk for a particular project site. The purpose of this guidance is to help land use agencies determine when to further examine project sites for actual health risk associated with the location of new sensitive land uses.

Regional Regulations

San Joaquin Valley Air Pollution Control District

The SJVAPCD is responsible for controlling emissions primarily from stationary sources. The SJVAPCD maintains air quality monitoring stations throughout the basin. The SJVAPCD, in coordination with the eight county transportation agencies, is also responsible for developing, updating, and

[17] CARB. 2005. *Air Quality and Land Use Handbook: A Community Health Perspective.* April.

implementing air quality attainment plans for the San Joaquin Valley Air Basin (SJVAB). The SJVAPCD also has roles under the California Environmental Quality Act (CEQA).

Guidance for Assessing and Mitigating Air Quality Impacts. The SJVAPCD prepared the GAMAQI to assist lead agencies and project applicants in evaluating the potential air quality impacts of projects in the SJVAB. The GAMAQI provides SJVAPCD-recommended procedures for evaluating potential air quality impacts during the CEQA environmental review process. The GAMAQI provides guidance on evaluating short-term (construction) and long-term (operational) air emissions. The most recent version of the GAMAQI, adopted on March 19, 2015, was used in this evaluation. It contains guidance on the following:

- Criteria and thresholds for determining whether a project may have a significant adverse air quality impact
- Specific procedures and modeling protocols for quantifying and analyzing air quality impacts
- Methods to mitigate air quality impacts
- Information for use in air quality assessments and environmental documents, including air quality, regulatory setting, climate, and topography data

Current Air Quality Plans. The SJVAPCD is responsible for formulating and implementing the Air Quality Management Plan (AQMP) for the SJVAB. The main purpose of an AQMP is to bring the area into compliance with federal and State air quality standards. The SJVAPCD does not have one single AQMP for criteria pollutants, rather the SJVAPCD address each criteria pollutant with its own Plan. The SJVAPCD has the following AQMPs:

- 2022 Plan for the 2015 8-Hour Ozone Standard
- 2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards
- 2016 Moderate Area Plan for the 2012 $PM_{2.5}$ Standard
- 2016 Plan for the 2008 8-Hour Ozone Standard
- 2013 Plan for the Revoked 1-Hour Ozone Standard
- 2007 PM_{10} Maintenance Plan
- 2004 Revision to the California State Implementation Plan for Carbon Monoxide

The SJVAPCD's AQMPs incorporate the latest scientific and technological information and planning assumptions, including updated emission inventory methodologies for various source categories. The SJVAPCD's AQMPs included the integrated strategies and measures needed to meet the national ambient air quality standards (NAAQS), implementation of new technology measures, and

demonstrations of attainment of the 1-hour and 8-hour ozone NAAQS as well as the latest 24-hour and annual $PM_{2.5}$ standards.

The SJVAPCD's current air quality plans are discussed below.

Ozone Plans. The SJVAPCD's Governing Board approved the 2022 Plan for the 2015 8-hour ozone standard on December 15, 2022. The comprehensive strategy in this plan will reduce NO_x emissions by 72 percent by 2037 and will bring the San Joaquin Valley into attainment of USEPA's 2015 8-hour ozone standard as expeditiously as practicable by the 2037 attainment deadline.

Particulate Matter Plans. The SJVAPCD adopted the 2007 PM_{10} Maintenance Plan in September 2007 to assure the SJVAB's continued attainment of the USEPA's PM_{10} standard. The USEPA designated the valley as an attainment/maintenance area for PM_{10}.

The 2008 $PM_{2.5}$ Plan builds upon the comprehensive strategy adopted in the 2007 Ozone Plan to bring the SJVAB into attainment of the 1997 national standards for $PM_{2.5}$. The USEPA has identified NO_x and SO_2 as precursors that must be addressed in air quality plans for the 1997 $PM_{2.5}$ standards. The 2008 $PM_{2.5}$ Plan is a continuation of the SJVACPD's strategy to improve the air quality in the SJVAB.

The SJVAPCD prepared the 2012 $PM_{2.5}$ Plan to bring the San Joaquin Valley into attainment of the USEPA's most recent 24-hour $PM_{2.5}$ standard of 35 $\mu g/m^3$. The CARB approved the SJVAPCD's 2012 $PM_{2.5}$ Plan at a public hearing on January 24, 2013. The plan, approved by the SJVAPCD Governing Board on December 20, 2012, will bring the San Joaquin Valley into attainment of USEPA's 1997 $PM_{2.5}$ standard as expeditiously as practicable, but no later than, December 31, 2020.

The SJVAPCD adopted the 2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ federal standards on November 15, 2018. This plan addresses the USEPA federal 1997 annual $PM_{2.5}$ standard of 15 $\mu g/m^3$ and 24-hour $PM_{2.5}$ standard of 65 $\mu g/m^3$, the 2006 24-hour $PM_{2.5}$ standard of 35 $\mu g/m^3$, and the 2012 annual $PM_{2.5}$ standard of 12 $\mu g/m^3$. This plan demonstrates attainment of the federal $PM_{2.5}$ standards as expeditiously as practicable.

Rules and Regulations. The SJVAPCD rules and regulations that may apply to the proposed project include, but are not limited to, the following:

- **Rule 8011—General Requirements: Fugitive Dust Emission Sources.** Fugitive dust regulations are applicable to outdoor fugitive dust sources. Operations, including construction operations, must control fugitive dust emissions in accordance with SJVAPCD Regulation VIII. According to Rule 8011, the SJVAPCD requires the implementation of control measures for fugitive dust emission sources.

- **Regulation VIII—Fugitive PM_{10} Prohibitions.** Rules 8011–8081 are designed to reduce PM_{10} emissions (predominantly dust/dirt) generated by human activity, including construction and demolition activities, road construction, bulk materials storage, paved and unpaved roads, and

carryout and track out. All development projects that involve soil disturbance are subject to at least one provision of the Regulation VIII series of rules.

- **Rule 2201—New and Modified Stationary Source Review Rule.** This rule provides the review of new and modified stationary sources of air pollution to operate without interfering with the attainment or maintenance of ambient air quality standards and results in no net increase in emissions above specified thresholds.

- **Rule 4102—Nuisance.** The purpose of this rule is to protect the health and safety of the public, and applies to any source operation that emits or may emit air contaminants or other materials.

- **Rule 4601—Architectural Coatings.** The purpose of this rule is to limit VOC emissions from architectural coatings. Emissions are reduced by limits on VOC content and providing requirements on coatings storage, cleanup, and labeling.

- **Rule 4901—Wood Burning Fireplaces and Wood Burning Heaters.** The purpose of this rule is to limit emissions of carbon monoxide and particulate matter from wood burning fireplaces, wood burning heaters, and outdoor wood burning devices.

- **Rule 9510—Indirect Source Review.** This rule reduces the impact of NO_x and PM_{10} emissions from new development projects. The rule places application and emission reduction requirements on development projects meeting applicability criteria in order to reduce emissions through on-site mitigation, off-site SJVAPCD-administered projects, or a combination of the two. Compliance with SJVAPCD Rule 9510 reduces emissions impacts through incorporation of on-site measures as well as payment of an off-site fee that funds emission reduction projects in the SJVAB. The emissions analysis for Rule 9510 is detailed and is dependent on the exact project design that is expected to be constructed or installed. Compliance with Rule 9510 is separate from the CEQA process, though the control measures used to comply with Rule 9510 may be used to mitigate significant air quality impacts.

Fresno County Association of Governments

Fresno Council of Governments (Fresno COG) is responsible for regional transportation planning in Fresno County and participates in developing mobile source emission inventories used in air quality attainment plans. Regional Transportation Plans (RTPs) are State-mandated plans that identify long-term transportation needs for a region's transportation network. Fresno COG's 2022 RTP charts the long-range vision of regional transportation in Fresno county through the year 2042. The RTP identifies existing and future transportation related needs, while considering all modes of travel, analyzing alternative solutions, and identifying priorities for the anticipated available funding for the 1,100 projects and multiple programs included within it. Senate Bill (SB) 375, which went into effect in 2009, added statutes to the California Government Code to encourage planning practices that create sustainable communities. It calls for each metropolitan planning organization to prepare a Sustainable Communities Strategy (SCS) as an integrated element of the RTP that is to be updated every four years. The SCS is intended to show how integrated land use and transportation planning can lead to lower GHG emissions from autos and light trucks. Fresno COG has included the SCS in its 2022 RTP.

Local Regulations

City of Clovis General Plan

The City of Clovis (City) addresses air quality in the Air Quality Element of the General Plan. The Air Quality Element provides goals, policies, and action items that work to meet or exceed all State and federal air quality standards. Applicable air quality policies and action items from the Air Quality Element are listed below.

- **Policy 1.1: Land use and transportation.** Reduce greenhouse gas and other local pollutant emissions through mixed use and transit-oriented development and well-designed transit, pedestrian, and bicycle systems.
- **Policy 1.3: Construction activities.** Encourage the use of best management practices during construction activities to reduce emissions of criteria pollutants as outlined by the SJVAPCD.
- **Policy 1.6: Alternative fuel infrastructure.** Encourage public and private activity and employment centers to incorporate electric charging and alternative fuel stations.
- **Policy 1.8: Trees.** Maintain or plant trees where appropriate to provide shade, absorb carbon, improve oxygenation, slow stormwater runoff, and reduce the heat island effect.
- **Policy 2.1: Regional coordination.** Support regional efforts to reduce air pollution (criteria air pollutants and greenhouse gas emissions) and collaborate with other agencies to improve air quality at the emission source and reduce vehicle miles traveled.
- **Policy 2.6: Innovative mitigation.** Encourage innovative mitigation measures to reduce air quality impacts by coordinating with the SJVAPCD, project applicants, and other interested parties.

GREENHOUSE GAS REGULATORY SETTING

This section describes regulations related to GHGs at the federal, State, and local level.

Federal Regulations

The United States has historically had a voluntary approach to reducing GHG emissions. However, on April 2, 2007, the United States Supreme Court ruled that the USEPA has the authority to regulate CO_2 emissions under the CAA.

While there currently are no adopted federal regulations for the control or reduction of GHG emissions, the USEPA commenced several actions in 2009 to implement a regulatory approach to global climate change, including the 2009 USEPA final rule for mandatory reporting of GHGs from large GHG emission sources in the United States. Additionally, the USEPA Administrator signed an endangerment finding action in 2009 under the CAA, finding that seven GHGs (CO_2, CH_4, N_2O, HFCs, NF_3, PFCs, and SF_6) constitute a threat to public health and welfare, and that the combined emissions from motor vehicles cause and contribute to global climate change, leading to national GHG emission standards.

State Regulations

The CARB is the lead agency for implementing climate change regulations in the State. Since its formation, the CARB has worked with the public, the business sector, and local governments to find solutions to California's air pollution problems. Key efforts by the State are described below.

Assembly Bill 32 (2006), California Global Warming Solutions Act

California's major initiative for reducing GHG emissions is AB 32, passed by the State legislature on August 31, 2006. This effort aims at reducing GHG emissions to 1990 levels by 2020. The CARB has established the level of GHG emissions in 1990 at 427 million metric tons (MMT) of CO_2e. The emissions target of 427 MMT requires the reduction of 169 MMT from the State's projected business-as-usual 2020 emissions of 596 MMT. AB 32 requires the CARB to prepare a Scoping Plan that outlines the main State strategies for meeting the 2020 deadline and to reduce GHGs that contribute to global climate change. The Scoping Plan was approved by the CARB on December 11, 2008, and contains the main strategies California will implement to achieve the reduction of approximately 169 MMT CO_2e, or approximately 30 percent, from the State's projected 2020 emissions level of 596 MMT CO_2e under a business-as-usual scenario (this is a reduction of 42 MMT CO_2e, or almost 10 percent from 2002–2004 average emissions). The Scoping Plan also includes CARB-recommended GHG reductions for each emissions sector of the State's GHG inventory. The Scoping Plan calls for the largest reductions in GHG emissions to be achieved by implementing the following measures and standards:

- Improved emissions standards for light-duty vehicles (estimated reductions of 31.7 MMT CO_2e);
- The Low-Carbon Fuel Standard (15.0 MMT CO_2e);
- Energy efficiency measures in buildings and appliances and the widespread development of combined heat and power systems (26.3 MMT CO_2e); and
- A renewable portfolio standard for electricity production (21.3 MMT CO_2e).

The CARB approved the First Update to the Climate Change Scoping Plan on May 22, 2014. The First Update identifies opportunities to leverage existing and new funds to further drive GHG emission reductions through strategic planning and targeted low carbon investments. The First Update defines CARB climate change priorities until 2020, and also sets the groundwork to reach long-term goals set forth in EOs S-3-05 and B-16-2012. The Update highlights California's progress toward meeting the "near-term" 2020 GHG emission reduction goals as defined in the initial Scoping Plan. It also evaluates how to align the State's "longer-term" GHG reduction strategies with other State policy priorities for water, waste, natural resources, clean energy, transportation, and land use. CARB released a second update to the Scoping Plan, the 2017 Scoping Plan,[18] to reflect the 2030 target set by EO B-30-15 and codified by SB 32.

[18] CARB. 2017a. *California's 2017 Climate Change Scoping Plan*. November.

Most recently, the 2022 Scoping Plan[19] was approved in December 2022 and assesses progress towards achieving the SB 32 2030 target and lay out a path to achieve carbon neutrality no later than 2045. The 2022 Scoping Plan focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

Senate Bill 375 (2008)

Signed into law on October 1, 2008, SB 375 supplements GHG reductions from new vehicle technology and fuel standards with reductions from more efficient land use patterns and improved transportation. Under the law, the CARB approved GHG reduction targets in February 2011 for California's 18 federally designated regional planning bodies, known as Metropolitan Planning Organizations (MPOs). The CARB may update the targets every 4 years and must update them every 8 years. MPOs, in turn, must demonstrate how their plans, policies, and transportation investments meet the targets set by the CARB through SCSs. The SCSs are included with the Regional Transportation Plan, a report required by State law. However, if an MPO finds that its SCS will not meet the GHG reduction target, it may prepare an Alternative Planning Strategy (APS). The APS identifies the impediments to achieving the targets.

Executive Order B-30-15 (2015)

Governor Jerry Brown signed Executive Order (EO) B-30-15 on April 29, 2015, which added the immediate target of:

- GHG emissions should be reduced to 40 percent below 1990 levels by 2030.

All State agencies with jurisdiction over sources of GHG emissions were directed to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 targets. CARB was directed to update the AB 32 Scoping Plan to reflect the 2030 target, and therefore, is moving forward with the update process. The mid-term target is critical to help frame the suite of policy measures, regulations, planning efforts, and investments in clean technologies and infrastructure needed to continue reducing emissions.

Senate Bill 350 (2015) Clean Energy and Pollution Reduction Act

SB 350, signed by Governor Jerry Brown on October 7, 2015, updates and enhances AB 32 by introducing the following set of objectives in clean energy, clean air, and pollution reduction for 2030:

- Raise California's renewable portfolio standard from 33 percent to 50 percent; and
- Increasing energy efficiency in buildings by 50 percent by the year 2030.

The 50 percent renewable energy standard will be implemented by the CPUC for the private utilities and by the CEC for municipal utilities. Each utility must submit a procurement plan showing it will

[19] CARB. 2021. *2022 Scoping Plan Update*. May 10. Website: https://ww2.arb.ca.gov/sites/default/files/2022-12/2022-sp.pdf (accessed June 2024).

purchase clean energy to displace other non-renewable resources. The 50 percent increase in energy efficiency in buildings must be achieved through the use of existing energy efficiency retrofit funding and regulatory tools already available to state energy agencies under existing law. The addition made by this legislation requires State energy agencies to plan for and implement those programs in a manner that achieves the energy efficiency target.

Senate Bill 32, California Global Warming Solutions Act of 2016, and Assembly Bill 197

In summer 2016 the Legislature passed, and the Governor signed, SB 32, and AB 197. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in Governor Brown's April 2015 EO B-30-15. SB 32 builds on AB 32 and keeps us on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels, consistent with an Intergovernmental Panel on Climate Change (IPCC) analysis of the emissions trajectory that would stabilize atmospheric GHG concentrations at 450 parts per million CO_2e and reduce the likelihood of catastrophic impacts from climate change.

The companion bill to SB 32, AB 197, provides additional direction to CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 meant to provide easier public access to air emissions data that are collected by CARB was posted in December 2016.

Senate Bill 100

On September 10, 2018, Governor Brown signed SB 100, which raises California's Renewables Portfolio Standard (RPS) requirements to 60 percent by 2030, with interim targets, and 100 percent by 2045. The bill also establishes a State policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of all retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all State agencies by December 31, 2045. Under the bill, the State cannot increase carbon emissions elsewhere in the western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

Executive Order B-55-18

EO B-55-18, signed September 10, 2018, sets a goal "to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter." EO B-55-18 directs CARB to work with relevant State agencies to ensure future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal. The goal of carbon neutrality by 2045 is in addition to other statewide goals, meaning not only should emissions be reduced to 80 percent below 1990 levels by 2050, but that, by no later than 2045, the remaining emissions be offset by equivalent net removals of CO_2e from the atmosphere, including through sequestration in forests, soils, and other natural landscapes.

Assembly Bill 1279

AB 1279 was signed in September of 2022, and codifies the State goals of achieving net carbon neutrality by 2045 and maintaining net negative GHG emissions thereafter. This bill also requires California to reduce statewide GHG emissions by 85 percent compared to 1990 levels by 2045 and directs CARB to work with relevant state agencies to achieve these goals.

Executive Order N-79-20

EO N-79-20, which was signed by the Governor on September 23, 2020, sets the following goals for the State: 100 percent of in-state sales of new passenger cars and trucks shall be zero-emission by 2035; 100 percent of medium- and heavy-duty vehicles in the State shall be zero-emission by 2045 for all operations where feasible and by 2035 for drayage trucks; and 100 percent of off-road vehicles and equipment in the State shall be zero-emission by 2035, where feasible.

Regional Regulations

San Joaquin Valley Air Pollution Control District

Tulare County is located within the SJVAB, which is under the jurisdiction of the SJVAPCD. The SJVAPCD has regulatory authority over certain stationary and industrial GHG emission sources and provides voluntary technical guidance on addressing GHGs for other emission sources in a CEQA context. SJVAPCD initiatives related to GHGs are described below:

Climate Change Action Plan. The San Joaquin Valley Air Pollution Control District Climate Change Action Plan (CCAP) was adopted on August 21, 2008. The CCAP includes suggested best performance standards (BPS) for proposed development projects. However, the SJVAPCD's CCAP was adopted in 2009 and was prepared based on the State's 2020 GHG targets, which are now superseded by State policies (i.e., the 2022 CALGreen Code) and the 2030 GHG targets, established in SB 32.

San Joaquin Valley Carbon Exchange and Rule 2301. The SJVAPCD initiated work on the San Joaquin Valley Carbon Exchange in November 2008. The Exchange was implemented with the adoption of Amendments to Rule 2301 Emission Reduction Credit Banking on January 19, 2012. The purpose of the carbon exchange is to quantify, verify, and track voluntary GHG emissions reductions generated within the San Joaquin Valley.

The SJVAPCD incorporated a method to register voluntary GHG emission reductions with amendments to Rule 2301. The purposes of the amendments to the rule include the following:

- Provide an administrative mechanism for sources to bank voluntary GHG emission reductions for later use
- Provide an administrative mechanism for sources to transfer banked GHG emission reductions to others for any use
- Define eligibility standards, quantitative procedures, and administrative practices to ensure that banked GHG emission reductions are real, permanent, quantifiable, surplus, and enforceable

The SJVAPCD is participating in a new program developed by the California Air Pollution Control Officers Association (CAPCOA) to encourage banking and use of GHG reduction credits referred to as the CAPCOA Greenhouse Gas Reduction Exchange (GHGRx). The GHGRx provides information on GHG credit projects within participating air districts. The SJVAPCD is one of the first districts to have offsets available for trading on the GHGRx.

Local Regulations

City of Clovis

The City of Clovis General Plan provides goals, policies, and action items that work to meet or exceed all current and future state-mandated targets for reducing emissions of greenhouse gases. The following policies and action items from the General Plan, listed below, would be applicable to the proposed project.

- **Policy 1.1: Land use and transportation.** Reduce greenhouse gas and other local pollutant emissions through mixed use and transit-oriented development and well-designed transit, pedestrian, and bicycle systems.

- **Policy 1.6: Alternative fuel infrastructure.** Encourage public and private activity and employment centers to incorporate electric charging and alternative fuel stations.

- **Policy 2.1: Regional coordination.** Support regional efforts to reduce air pollution (criteria air pollutants and greenhouse gas emissions) and collaborate with other agencies to improve air quality at the emission source and reduce vehicle miles traveled.

- **Policy 2.2: Cross-jurisdictional issues.** Collaborate with regional agencies and surrounding jurisdictions to address cross-jurisdictional transportation and air quality issues.

- **Policy 2.3: Valleywide programs.** Establish parallel air quality programs and implementation measures with other communities across the San Joaquin Valley.

- **Policy 2.4: Public participation.** Encourage participation of local citizens, the business community, and interested groups and individuals in air quality planning and implementation.

- **Policy 2.6: Innovative mitigation.** Encourage innovative mitigation measures to reduce air quality impacts by coordinating with the SJVAPCD, project applicants, and other interested parties.

SETTING

This section provides the current SJVAPCD attainment status, climate and air quality, ambient air quality monitoring results, and GHG emissions inventory.

ATTAINMENT STATUS

The CARB is required to designate areas of the state as attainment, nonattainment, or unclassified for all State standards. An *attainment* designation for an area signifies that pollutant concentrations did not violate the standard for that pollutant in that area. A *nonattainment* designation indicates that a pollutant concentration violated the standard at least once, excluding those occasions when a violation was caused by an exceptional event, as defined in the criteria. An *unclassified* designation signifies that data do not support either an attainment or nonattainment status. The CCAA divides districts into moderate, serious, and severe air pollution categories, with increasingly stringent control requirements mandated for each category.

The USEPA designates areas for O_3, CO, and NO_2 as either does not meet the primary standards, or cannot be classified, or better than national standards. For SO_2, areas are designated as does not meet the primary standards, does not meet the secondary standards, cannot be classified, or better than national standards.

Table D provides a summary of the attainment status for the SJVAB with respect to NAAQS and CAAQS.

Table D: San Joaquin Valley Air Basin Air Quality Attainment Status

Pollutant	State	Federal
Ozone (1-hour)	Severe/Nonattainment	Not Applicable
Ozone (8-hour)	Nonattainment	Extreme Nonattainment
PM_{10}	Nonattainment	Attainment (Maintenance)
$PM_{2.5}$	Nonattainment	Nonattainment
Carbon Monoxide	Attainment	Attainment (Maintenance)
Nitrogen Dioxide	Attainment	Unclassified/Attainment
Lead	Attainment	Unclassified/Attainment
Sulfur Dioxide	Attainment	Unclassified
Sulfates	Attainment	No Federal Standard
Hydrogen Sulfide	Unclassified	No Federal Standard

Source: California Air Resources Board and USEPA (2023).
PM_{10} = particulate matter less than 10 microns in size
$PM_{2.5}$ = particulate matter less than 2.5 microns in size

EXISTING CLIMATE AND AIR QUALITY

Air quality is a function of both local climate and local sources of air pollution. The amount of a given pollutant in the atmosphere is determined by the amount of the pollutant released and the atmosphere's ability to transport and dilute the pollutant. The major determinants of transport and dilution are wind, atmospheric stability, terrain, and for photochemical pollutants, sunshine.

The project site is located within the SJVAB and is under the jurisdiction of the SJVAPCD. A region's topographic features have a direct correlation with air pollution flow and therefore are used to determine the boundary of air basins. The SJVAB is comprised of approximately 25,000 square miles and covers of eight counties including Fresno, Kings, Madera, Merced, San Joaquin, Stanislaus and Tulare, and the western portion of Kern. The SJVAB is defined by the Sierra Nevada mountains in the east (8,000 to 14,000 feet in elevation), the Coast Ranges in the west (averaging 3,000 feet in elevation), and the Tehachapi mountains in the south (6,000 to 8,000 feet in elevation). The valley is basically flat with a slight downward gradient to the northwest. The valley opens to the sea at the Carquinez Straits where the San Joaquin-Sacramento Delta empties into San Francisco Bay.

An aerial view of the SJVAB would simulate a "bowl" opening only to the north. These topographic features restrict air movement through and out of the basin.

Although marine air generally flows into the basin from the San Joaquin River Delta, the Coast Range hinders wind access into the SJVAB from the west, the Tehachapi Mountains prevent southerly passage of air flow, and the high Sierra Nevada range is a significant barrier to the east. These topographic features result in weak air flow which becomes blocked vertically by high barometric pressure over the SJVAB. As a result, the SJVAB is highly susceptible to pollutant accumulation over time. Most of the surrounding mountains are above the normal height of summer inversion layers (1,500 to 3,000 feet).

Local climatological effects, including wind speed and direction, temperature, inversion layers, precipitation and fog, can exacerbate the air quality in the SJVAB. Wind speed and direction play an important role in dispersion and transport of air pollutants. Wind at the surface and aloft can disperse pollution by mixing vertically and by transporting it to other locations. For example, in the summer, wind usually originates at the north end of the SJVAB and flows in a south-southeasterly direction through the SJVAB, through Tehachapi pass, into the Southeast Desert Air Basin. In the winter, wind direction is reversed and flows in a north-northwesterly direction. In addition to the seasonal wind flow, a sea breeze flows into SJVAB during the day and a land breeze flowing out of the SJVAB at night. The diversified wind flow enhances the pollutant transport capability within SJVAB.

The annual average temperature varies throughout the SJVAB, ranging from the low 40s to high 90s, measured in degrees Fahrenheit (°F). With a more pronounced valley influence, inland areas show more variability in annual minimum and maximum temperatures than coastal areas. The climatological station closest to the site is the Fresno Yosemite International Airport Station (043257). The monthly average maximum temperature recorded at this station from January 1948 to June 2016 ranged from 54.6°F in January to 98.3°F in July, with an annual average maximum of 76.5°F. The monthly average minimum temperature recorded at this station ranged from 35.3°F in December to 65.7°F in July, with an annual average minimum of 50.4°F.[20] These levels are still

[20] Western Regional Climate Center. n.d. Fresno Yosemite International Airport (043257), Period of Record Monthly Climate Summary. Website: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca3257 (accessed January 2023).

representative of the project area. January and December are typically the coldest months and July is typically the warmest month in this area of the SJVAB.

The majority of annual rainfall in the SJVAB occurs between November and March. Summer rainfall is minimal and is generally limited to scattered thundershowers in desert regions and slightly heavier showers near the lower portion of the SJVAB and along the Sierra Nevada mountains to the east. Average monthly rainfall during that period varied from 0.01 inches in July and August to 2.09 inches in January, with an annual total of 10.89 inches.[21] Patterns in monthly and yearly rainfall totals are predictable due to the recognizable differences in seasons within the valley.

The vertical dispersion of air pollutants in the SJVAB is limited by the presence of persistent temperature inversions. Because of cooling of the atmosphere, air temperature usually decreases with altitude. A reversal of this atmospheric state, where the air temperature increases with height, is termed an inversion. Inversions can exist at the surface, or at any height above the ground. The height of the base of the inversion is known as the "mixing height." This is the level within which pollutants can mix vertically. Air above and below the inversion base does not mix because of the differences in air density. Semi-permanent systems of high barometric pressure fronts frequently establish themselves over the SJVAB, preventing low pressure systems that might otherwise bring rain and winds that clean the air.

Inversion layers are significant in determining ozone formation, and CO and PM_{10} concentrations. Ozone and its precursors will mix and react to produce higher ozone concentrations under an inversion. The inversion will also simultaneously trap and hold directly emitted pollutants such as carbon monoxide. PM_{10} is both directly emitted and created in the atmosphere as a chemical reaction. Concentration levels of pollutants are directly related to inversion layers due to the limitation of mixing space.

Surface or radiation inversions are formed when the ground surface becomes cooler than the air above it during the night. The earth's surface goes through a radiative process on clear nights, where heat energy is transferred from the ground to a cooler night sky. As the earth's surface cools during the evening hours, the air directly above it also cools, while air higher up remains relatively warm. The inversion is destroyed when heat from the sun warms the ground, which in turn heats the lower layers of air; this heating stimulates the ground level air to float up through the inversion layer.

The combination of stagnant wind conditions and low inversions produces the greatest pollutant concentrations. On days of no inversion or high wind speeds, ambient air pollutant concentrations are lowest. Periods of low inversions and low wind speeds are conditions favorable to high concentrations of CO and PM_{10}. In the winter, the greatest pollution problems are CO and NO_x because of extremely low inversions and air stagnation during the night and early morning hours. In

[21] Western Regional Climate Center. n.d. Fresno Yosemite International Airport (043257), Period of Record Monthly Climate Summary. Website: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca3257 (accessed January 2023).

the summer, the longer daylight hours and the brighter sunshine combine to cause a reaction between hydrocarbons and oxides of nitrogen to form photochemical smog.

AIR QUALITY MONITORING RESULTS

Air quality monitoring stations are located throughout the nation and are maintained by the local air pollution control district and State air quality regulating agencies. The SJVAPCD, together with the CARB, maintains ambient air quality monitoring stations in the SJVAB. The air quality monitoring stations closest to the project area are located at 908 North Villa Avenue in Clovis and 3727 North First Street in Fresno, California.

Pollutant monitoring results for years 2021 to 2023 at the nearby ambient air quality monitoring stations, shown in Table E, indicate that air quality in the area has generally been moderate. As indicated in the monitoring results, the State PM_{10} standard was exceeded 111 times in 2021, 73 times in 2022 and an unknown number of times in 2023. In addition, the federal PM_{10} standard was exceeded an unknown number of times in 2021 but not exceeded in 2022 or 2023. The federal $PM_{2.5}$ standard had 22 exceedances in 2021, four exceedances in 2022, and no exceedances in 2023. The State 1-hour ozone standard was exceeded six times in 2021, no times in 2022, and an unknown number of times in 2023. The State 8-hour ozone standard was exceeded 37 times in 2021, 26 times in 2022, and 21 times in 2023. The federal 8-hour standard was exceeded 34 times in 2021, 23 times in 2022, and 21 times in 2023. The CO, NO_2, and SO_2 standards were not exceeded in this area during the 3-year period.

GREENHOUSE GAS EMISSIONS INVENTORY

An emissions inventory that identifies and quantifies the primary human-generated sources and sinks of GHGs is a well-recognized and useful tool for addressing climate change. This section summarizes the latest information on global, United States, and California GHG emission inventories.

Global Emissions

Worldwide emissions of GHGs in 2020 totaled 22.9 billion metric tons (MT) of CO_2e. Global estimates are based on country inventories developed as part of the programs of the United Nations Framework Convention on Climate Change.[22]

United States Emissions

In 2022, the year for which the most recent data are available, the United States emitted about 6,343.2 MMT CO_2e. Overall, net emissions increased by 1.3 percent from 2021 to 2022 and decreased by 16.7 percent from 2005 levels. The increase in total GHG emissions was driven by an increase in CO_2 emissions from fossil fuel combustion.

[22] United Nations Framework Convention on Climate Change (UNFCCC). 2021. GHG Data from UNFCCC. Website: unfccc.int/process-and-meetings/transparency-and-reporting/greenhouse-gas-data/ghg-data-unfccc/ghg-data-from-unfccc (accessed April 2024).

Table E: Ambient Air Quality at Nearby Monitoring Stations

Pollutant	Standard	2021	2022	2023
Carbon Monoxide (CO)				
Maximum 1-hour concentration (ppm)		1.3	1.3	1.5
Number of days exceeded:	State: > 20 ppm	0	0	0
	Federal: > 35 ppm	0	0	0
Maximum 8-hour concentration (ppm)		1.2	1.1	1.3
Number of days exceeded:	State: > 9 ppm	0	0	0
	Federal: > 9 ppm	0	0	0
Ozone (O_3)				
Maximum 1-hour concentration (ppm)		0.123	0.109	0.102
Number of days exceeded:	State: > 0.09 ppm	6	0	ND
Maximum 8-hour concentration (ppm)		0.100	0.084	0.083
Number of days exceeded:	State: > 0.07 ppm	37	26	21
	Federal: > 0.07 ppm	34	23	21
Coarse Particulates (PM_{10})				
Maximum 24-hour concentration (µg/m³)		208.8	127.0	104.0
Number of days exceeded:	State: > 50 µg/m³	111	73	ND
	Federal: > 150 µg/m³	ND	0	0
Annual arithmetic average concentration (µg/m³)		43.2	36.2	ND
Exceeded for the year:	State: > 20 µg/m³	Yes	Yes	ND
	Federal: > 50 µg/m³	No	No	ND
Fine Particulates ($PM_{2.5}$)				
Maximum 24-hour concentration (µg/m³)		104.6	41.9	34.7
Number of days exceeded:	Federal: > 35 µg/m³	22	4	0
Annual arithmetic average concentration (µg/m³)		15.1	10.5	8.6
Exceeded for the year:	State: > 12 µg/m³	Yes	No	No
	Federal[1] > 12 µg/m³[a]	Yes	No	No
Nitrogen Dioxide (NO_2)				
Maximum 1-hour concentration (ppm)		0.049	0.051	0.048
Number of days exceeded:	State: > 0.250 ppm	0	0	0
Annual arithmetic average concentration (ppm)		0.008	0.009	0.008
Exceeded for the year:	Federal: > 0.053 ppm	No	No	No
Sulfur Dioxide (SO_2)[2]				
Maximum 1-hour concentration (ppm)		0.008	0.003	0.005
Number of days exceeded:	State: > 0.25 ppm	0	0	0
Maximum 24-hour concentration (ppm)		0	0	0
Number of days exceeded:	State: > 0.04 ppm	0.003	0.001	0.002
	Federal: > 0.14 ppm	0	0	0
Annual arithmetic average concentration (ppm)		0.0004	0.0003	0.0004
Exceeded for the year:	Federal: > 0.030 ppm	No	No	No

Sources: CARB (2023) and USEPA (2023).

[1] On February 7, 2024, the federal annual $PM_{2.5}$ standard was revised from 12.0 µg/m³ to 9.0 µg/m³. However, since the data presented in Table E is through 2022, it uses the 12.0 µg/m³ standard that was in effect through 2022.

[2] Data for SO_2 was taken from 3727 North First Street, Fresno monitoring station. All other data was taken from 908 North Villa Avenue, Clovis Monitoring Station.

µg/m³ = micrograms per cubic meter
CARB = California Air Resources Board
ND = No data. There were insufficient (or no) data to determine the value.
ppm = parts per million
USEPA = United States Environmental Protection Agency

In 2022, CO_2 emissions from fossil fuel combustion increased by 1 percent relative to the previous year. This increase in fossil fuel consumption emissions was due primarily to economic activity rebounding after the height of the COVID-19 pandemic. Of the five major sectors (e.g., residential and commercial, agricultural, industry, transportation, and electricity generation), transportation accounted for the highest amount of GHG emissions in 2022 (approximately 28 percent), with electricity generation second at 25 percent and emissions from industry third at 23 percent.[23]

State of California Emissions

The State emitted approximately 381.3 MMT CO_2e emissions in 2021, which was 12.1 MMT CO_2e higher than 2020 levels and 49.7 MMT CO_2e below the 2020 GHG limit of 431 MMT CO_2e.[24] CARB estimates that transportation was the source of approximately 38 percent of the State's GHG emissions in 2021. The next largest sources included industrial sources at approximately 19 percent and electricity generation at 16 percent. The remaining sources of GHG emissions were commercial and residential activities at 10 percent, agriculture at 8 percent, high GWP at 6 percent, and waste at 2 percent.[25]

23 USEPA. 2024. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2022. Website: https://www.epa.gov/system/files/documents/2024-04/us-ghg-inventory-2024-main-text_04-18-2024.pdf (accessed June 2024).

24 CARB. 2023. *California Greenhouse Gas Emissions for 2000 to 2021, Trends of Emissions and Other Indicators Report*. Website: https://ww2.arb.ca.gov/sites/default/files/2023-12/2000_2021_ghg_inventory_trends.pdf (accessed June 2024).

25 Ibid.

METHODOLOGY

The methodology used to estimate air quality and GHG impacts is described below.

CONSTRUCTION EMISSIONS

Construction activities can generate a substantial amount of air pollution. Construction activities are considered temporary; however, short-term impacts can contribute to exceedances of air quality standards. Construction activities include site preparation, earthmoving, and general construction. The emissions generated from these common construction activities include fugitive dust from soil disturbance, fuel combustion from mobile heavy-duty diesel- and gasoline-powered equipment, portable auxiliary equipment, and worker commute trips.

The California Emissions Estimator Model (CalEEMod) Version 2022.1 computer program was used to calculate emissions from on-site construction equipment and emissions from worker and vehicle trips to the site. Construction of the proposed project is anticipated to begin in 2024, which was included in CalEEMod. The construction duration of the proposed project is not yet known; therefore, this analysis utilizes a CalEEMod default construction schedule, which assumes construction would begin December 2024 and end October 2028. The proposed project would not require the import or export of soil but would require the demolition of approximately 6,500 square feet of existing buildings, which was also included in CalEEMod. This analysis also assumes the use of Tier 2 construction equipment and that the proposed project would comply with SJVAPCD Regulation VIII for fugitive dust control. Other detailed construction information is currently unavailable; therefore, this analysis utilizes CalEEMod default assumptions.

CONSTRUCTION HEALTH RISK ASSESSMENT

A construction Health Risk Assessment (HRA), which evaluates construction-period health risk to off-site receptors, was performed for the proposed project, and the analysis is presented below. To estimate the potential cancer risk associated with construction of the proposed project from equipment exhaust (including DPM), a dispersion model was used to translate an emission rate from the source location to a concentration at the receptor location of interest (i.e., a nearby residence and worksites). Dispersion modeling varies from a simpler, more conservative screening-level analysis to a more complex and refined detailed analysis. This refined assessment was conducted using the CARB exposure methodology with the air dispersion modeling performed using the USEPA dispersion model AERMOD. The model provides a detailed estimate of exhaust concentrations based on site and source geometry, source emissions strength, distance from the source to the receptor, and meteorological data.

OPERATIONAL EMISSIONS

The air quality analysis includes estimating emissions associated with long-term operation of the proposed project. Consistent with the SJVAPCD guidance for estimating emissions associated with land use development projects, the CalEEMod computer program was used to calculate the long-term operational emissions associated with the project.

As discussed in the Project Description section, the proposed project would include the construction of 266 single-family residential units and approximately 0.84 acre of park space. The proposed project analysis was conducted using land use codes *Single Family Housing* and *City Park.* Trip generation rates used in CalEEMod for the project were based on the project's TIA, which identifies that the proposed project would generate approximately 2,508 average daily trips. In addition, the following project features were included in CalEEMod:

- Installation of ENERGY STAR dishwashers;
- Installation of LED lighting;
- Use of drip irrigation;
- Installation of low-flow water fixtures;
- Use of low VOC paints;
- Recycling of up to 90 percent of construction waste; and
- Independent inspections at random for energy-efficiency verification.

In addition, consistent with SJVAPCD Rule 4901, this analysis assumes that the proposed project would not include any wood burning (or natural gas) fireplaces. Where project-specific data were not available, default assumptions (e.g., energy usage, water usage, and solid waste generation) from CalEEMod were used to estimate project emissions. CalEEMod output sheets are included in Attachment B.

GREENHOUSE GAS ANALYSIS

GHG emissions associated with the project would occur over the short term from construction activities, consisting primarily of emissions from equipment exhaust. There would also be long-term GHG emissions associated with project-related area sources, energy consumption, water conveyance and treatment, and waste generation.

THRESHOLDS OF SIGNIFICANCE

AIR QUALITY

The *State CEQA Guidelines* indicate that a project would normally have a significant adverse air quality impact if project-generated pollutant emissions would do any of the following:

- Conflict with or obstruct implementation of the applicable air quality plan;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project is nonattainment under applicable federal or State ambient air quality standards;
- Expose sensitive receptors to substantial pollutant concentrations; or
- Result in other emissions (such as those leading to odors) affecting a substantial number of people.

Regional Emissions Thresholds

The SJVAPCD defines emissions thresholds in the GAMAQI, established based on the attainment status of the air basin in regard to air quality standards for specific criteria pollutants. Because the concentration standards were set at a level that protects public health with an adequate margin of safety, these emission thresholds are regarded as conservative and would overstate an individual project's contribution to health risks. The related impacts are discussed further in the Project Impacts section. The SJVAPCD regional emission thresholds for construction and operation are shown in Table F.

Table F: Regional Thresholds for Construction and Operational Emissions

Emissions Source	Pollutant Emissions Threshold (tons per year)					
	CO	NO_X	ROG	SO_X	PM_{10}	$PM_{2.5}$
Construction	100	10	10	27	15	15
Operations	100	10	10	27	15	15

Source: *Guidance for Assessing and Mitigating Air Quality Impacts* (SJVAPCD 2015).
CO = carbon monoxide
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
ROG = reactive organic gas
SJVAPCD = San Joaquin Valley Air Pollution Control District
SO_X = sulfur oxides

Local Microscale Concentration Standards

The significance of localized project impacts under CEQA depends on whether ambient CO levels in the vicinity of the project are above or below State and federal CO standards. Because ambient CO levels are below the standards throughout the SJVAB, a project would be considered to have a significant CO impact if project emissions result in an exceedance of one or more of the 1-hour or 8-hour standards. The following are applicable local emission concentration standards for CO:

- California State 1-hour CO standard of 20 ppm
- California State 8-hour CO standard of 9 ppm

Health Risk Thresholds

Both the State and federal governments have established health-based AAQS for seven air pollutants. For other air pollutants without defined significance standards, the definition of substantial pollutant concentrations varies. For TACs, "substantial" is taken to mean that the individual health risk exceeds a threshold considered to be a prudent risk management level.

The following limits for maximum individual cancer risk (MICR) and noncancer acute and chronic Hazard Index (HI) from project emissions of TACs are considered appropriate for use in determining the health risk for projects in the SJVAB:

- **MICR:** MICR is the estimated probability of a maximum exposed individual (MEI) contracting cancer as a result of exposure to TACs over a period of 30 years for adults and 9 years for children in residential locations, 350 days per year. The SJVAPCD's *Update to the District's Risk Management Policy to Address the California Office of Environmental Health Hazard Assessment (OEHHA) Revised Risk Assessment Guidance Document* states that emissions of TACs are considered significant if an HRA shows an increased risk of greater than 20 in 1 million.

- **Chronic HI:** Chronic HI is the ratio of the estimated long-term level of exposure to a TAC for a potential MEI to its chronic reference exposure level. The chronic HI calculations include multi-pathway consideration when applicable. The project would be considered significant if the cumulative increase in total chronic HI for any target organ system would exceed 1.0 at any receptor location.

- **Acute HI:** Acute HI is the ratio of the estimated maximum 1-hour concentration of a TAC for a potential MEI to its acute reference exposure level. The project would be considered significant if the cumulative increase in total acute HI for any target organ system would exceed 1.0 at any receptor location.

GREENHOUSE GAS THRESHOLDS

The *State CEQA Guidelines* indicate that a project would normally have a significant adverse GHG emission impact if the project would:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or

- Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

Neither the City nor the SJVAPCD has developed or adopted numeric GHG significance thresholds. Therefore, this analysis evaluates the GHG emissions based on the project's consistency with applicable State GHG reduction goals.

IMPACTS ANALYSIS

This section identifies the air quality and GHG emissions impacts associated with implementation of the proposed project.

AIR QUALITY IMPACTS

Air pollutant emissions associated with the project would occur over the short term from construction activities and over the long term from operational activities associated with the proposed project.

Consistency with Applicable Air Quality Plans

An air quality plan describes air pollution control strategies to be implemented by a city, county, or region classified as a nonattainment area. . As discussed above, the SJVAB is designated as non-attainment for O_3 and $PM_{2.5}$ for federal standards and non-attainment for O_3, PM_{10}, and $PM_{2.5}$ for State standards. The main purpose of the air quality plan is to bring the area into compliance with the requirements of the federal and State air quality standards. To bring the San Joaquin Valley into attainment, the SJVAPCD adopted the *2022 Plan for the 2015 8-Hour Ozone Standard* in December 2022 to satisfy Clean Air Act requirements and ensure attainment of the 75 parts per billion (ppb) 8-hour ozone standard.[26]

To ensure the SJVAB's continued attainment of the USEPA PM_{10} standard, the SJVAPCD adopted the 2007 PM_{10} Maintenance Plan in September 2007.[27] The SJVAPCD adopted the *2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards* in November 2018, to address the USEPA 1997 annual $PM_{2.5}$ standard of 15 µg/m^3 and 24-hour $PM_{2.5}$ standard of 65 µg/m^3, the 2006 24-hour $PM_{2.5}$ standard of 35 µg/m^3, and the 2012 annual $PM_{2.5}$ standard of 12 µg/m^3.[28]

For a project to be consistent with SJVAPCD air quality plans, the pollutants emitted from a project should not exceed the SJVAPCD emission thresholds or cause a significant impact on air quality. In addition, emission reductions achieved through implementation of offset requirements are a major component of the SJVAPCD air quality plans. As discussed below, construction of the proposed project would not result in the generation of criteria air pollutants that would exceed SJVAPCD thresholds of significance. In addition to the construction period thresholds of significance, the SJVAPCD has implemented Regulation VIII measures for dust control during construction. These control measures are intended to reduce the amount of PM_{10} emissions during the construction period. Implementation of the fugitive dust control measures outlined in Regulatory Compliance Measure (RCM) AIR-1, would ensure that the proposed project complies with Regulation VIII, further reduces the short-term construction period air quality impacts, and ensures compliance with air

[26] SJVAPCD. 2016. *2016 Plan for the 2008 8-Hour Ozone Standard*. June 16. Website: www.valleyair.org/Air_Quality_Plans/Ozone-Plan-2016.htm (accessed June 2024).

[27] SJVAPCD. 2007. *2007 PM_{10} Maintenance Plan and Request for Redesignation*. Website: www.valleyair.org/Air_Quality_Plans/docs/Maintenance%20Plan10-25-07.pdf (accessed June 2024).

[28] SJVAPCD. 2018. *2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards*. November 15. Website: http://valleyair.org/pmplans/documents/2018/pm-plan-adopted/2018-Plan-for-the-1997-2006-and-2012-PM2.5-Standards.pdf (accessed June 2024).

quality plans. In addition, as discussed below and shown in Table H, long-term operational emissions associated with the proposed project, including area, energy, and mobile source emissions, would also not exceed SJVAPCD established significance thresholds. Therefore, the proposed project would not conflict with or obstruct implementation of SJVAPCD air quality plans.

Criteria Pollutant Analysis

The SJVAB is currently designated as nonattainment for the federal and State standards for O_3 and $PM_{2.5}$. In addition, the SJVAB is in nonattainment for the PM_{10} standard. The SJVAB's nonattainment status is attributed to the region's development history. Past, present, and future development projects contribute to the region's adverse air quality impacts on a cumulative basis. By its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size to, by itself, result in nonattainment of an ambient air quality standard. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant.

In developing thresholds of significance for air pollutants, the SJVAPCD considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions. The following analysis assesses the potential construction- and operation-related air quality impacts.

Construction Emissions

During construction, short-term degradation of air quality may occur due to the release of particulate emissions generated by demolition, grading, paving, building, and other activities. Emissions from construction equipment are also anticipated and would include CO, NO_x, ROG, directly-emitted particulate matter ($PM_{2.5}$ and PM_{10}), and TACs such as diesel exhaust particulate matter.

Construction activities associated with the proposed project would include demolition, site preparation, grading, paving, and building activities. Construction-related effects on air quality from the proposed project would be greatest during the site preparation phase due to the disturbance of soils. If not properly controlled, these activities would temporarily generate particulate emissions. Sources of fugitive dust would include disturbed soils at the construction site. Unless properly controlled, vehicles leaving the site would deposit dirt and mud on local streets, which could be an additional source of airborne dust after it dries. PM_{10} emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. PM_{10} emissions would depend on soil moisture, silt content of soil, wind speed, and the amount of operating equipment. Larger dust particles would settle near the source, while fine particles would be dispersed over greater distances from the construction site.

Water or other soil stabilizers can be used to control dust, resulting in emission reductions of 50 percent or more. The SJVAPCD has implemented Regulation VIII measures for reducing fugitive dust emissions (PM_{10}). With the implementation of Regulation VIII measures, fugitive dust emissions from construction activities would not result in adverse air quality impacts.

In addition to dust-related PM_{10} emissions, heavy trucks and construction equipment powered by gasoline and diesel engines would generate CO, SO_2, NO_x, ROG, and some soot particulate ($PM_{2.5}$ and PM_{10}) in exhaust emissions. If construction activities were to increase traffic congestion in the area, CO and other emissions from traffic would increase slightly while those vehicles idle in traffic. These emissions would be temporary in nature and limited to the immediate area surrounding the construction site.

Construction emissions were estimated for the project using CalEEMod and are summarized in Table G. Appendix A provides CalEEMod output sheets.

Table G: Short-Term Regional Construction Emissions

Construction Year	Pollutant Emissions (Tons per Year)					
	ROG	NO_x	CO	SO_X	PM_{10}	$PM_{2.5}$
2024	<0.1	0.3	0.2	<0.1	<0.1	<0.1
2025	0.1	4.0	3.1	<0.1	0.4	0.2
2026	0.1	2.6	2.3	<0.1	0.2	0.1
2027	0.1	1.6	2.2	<0.1	0.2	0.1
2028	1.7	1.3	1.1	<0.1	0.1	0.1
Maximum Emissions	**1.7**	**4.0**	**3.1**	**<0.1**	**0.2**	**0.2**
SJVAPCD Threshold	**10.0**	**10.0**	**100.0**	**27.0**	**15.0**	**15.0**
Significant?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Compiled by LSA (June 2024).
CO = carbon monoxide
NO_x = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
ROG = reactive organic gas
SJVAPCD = San Joaquin Valley Air Pollution Control District
SO_x = sulfur oxides

As shown in Table G, construction emissions associated with the proposed project would not exceed the SJVAPCD's thresholds for ROG, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$ emissions. In addition to the construction period thresholds of significance, the SJVAPCD has implemented Regulation VIII measures for dust control during construction. Implementation of Regulatory Compliance Measure (RCM) AIR-1 would ensure that the proposed project complies with Regulation VIII.

RCM AIR-1 Consistent with San Joaquin Valley Air Pollution Control District (SJVAPCD) Regulation VIII (Fugitive PM_{10} Prohibitions), the following controls are required to be included as specifications for the proposed project and implemented at the construction site:

- All disturbed areas, including storage piles, which are not being actively utilized for construction purposes, shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant or covered with a tarp or other suitable cover or vegetative ground cover.
- All on-site unpaved roads and off-site unpaved access roads shall be effectively stabilized of dust emissions using water or chemical stabilizer/suppressant.

- All land clearing, grubbing, scraping, excavation, land leveling, grading, cut and fill, and demolition activities shall be effectively controlled of fugitive dust emissions utilizing application of water or by presoaking.
- When materials are transported off site, all material shall be covered, or effectively wetted to limit visible dust emissions, and at least 6 inches of freeboard space from the top of the container shall be maintained.
- All operations shall limit or expeditiously remove the accumulation of mud or dirt from adjacent public streets at the end of each workday. (The use of dry rotary brushes is expressly prohibited except where preceded or accompanied by sufficient wetting to limit the visible dust emissions. Use of blower devices is expressly forbidden.)
- Following the addition of materials to, or the removal of materials from, the surface of outdoor storage piles, said piles shall be effectively stabilized of fugitive dust emissions utilizing sufficient water or chemical stabilizer/ suppressant.

Construction emissions associated with the proposed project would be less than significant with implementation of RCM AIR-1. Therefore, construction of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality standard.

Operational Air Quality Impacts

Long-term air pollutant emission impacts associated with the proposed project are those related to mobile sources (e.g., vehicle trips), energy sources (e.g., natural gas), and area sources (e.g., architectural coatings and the use of landscape maintenance equipment).

Mobile source emissions include ROG and NO_X emissions that contribute to the formation of ozone. Additionally, PM_{10} emissions result from running exhaust, tire and brake wear, and the entrainment of dust into the atmosphere from vehicles traveling on paved roadways.

Energy source emissions result from activities in buildings for which natural gas is used. The quantity of emissions is the product of usage intensity (i.e., the amount of natural gas) and the emission factor of the fuel source. However, the proposed project would not include natural gas and no natural gas demand is anticipated during operation of the proposed project.

Typically, area source emissions consist of direct sources of air emissions located at the project site, including architectural coatings and the use of landscape maintenance equipment. Area source emissions associated with the project would include emissions from the use of landscaping equipment and the use of consumer products.

Long-term operational emissions associated with the proposed project were calculated using CalEEMod. Table H provides the proposed project's estimated operational emissions. Appendix A provides CalEEMod output sheets.

Table H: Project Operational Emissions

Emission Type	Pollutant Emissions (Tons per Year)					
	ROG	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Mobile Sources	1.4	1.3	9.1	<0.1	2.2	0.6
Area Sources	2.3	<0.1	1.4	<0.1	<0.1	<0.1
Energy Sources	0.0	0.0	0.0	0.0	0.0	0.0
Total Project Emissions	**3.7**	**1.3**	**10.5**	**<0.1**	**2.2**	**0.6**
SJVAPCD Threshold	10.0	10.0	100.0	27.0	15.0	15.0
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Compiled by LSA (June 2024).
Note: Some values may not appear to add correctly due to rounding.
CO = carbon monoxide
NO_x = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
ROG = reactive organic gas
SJVAPCD = San Joaquin Valley Air Pollution Control District
SO_x = sulfur oxides

The results shown in Table H indicate the proposed project would not exceed the significance criteria for daily ROG, NO_X, CO, SO_X, PM_{10}, or $PM_{2.5}$ emissions. Therefore, operation of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or State AAQS.

Long-Term Microscale (CO Hot Spot) Analysis

Vehicular trips associated with the proposed project would contribute to congestion at intersections and along roadway segments in the vicinity of the proposed project site. Localized air quality impacts would occur when emissions from vehicular traffic increase as a result of the proposed project. The primary mobile-source pollutant of local concern is CO, a direct function of vehicle idling time and, thus, of traffic flow conditions. CO transport is extremely limited; under normal meteorological conditions, it disperses rapidly with distance from the source. However, under certain extreme meteorological conditions, CO concentrations near a congested roadway or intersection may reach unhealthful levels, affecting local sensitive receptors (e.g., residents, schoolchildren, the elderly, and hospital patients).

Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable levels of service or with extremely high traffic volumes. In areas with high ambient background CO concentrations, modeling is recommended to determine a project's effect on local CO levels.

An assessment of project-related impacts on localized ambient air quality requires that future ambient air quality levels be projected. Ambient CO levels monitored at the Clovis air quality monitoring stations, the closest stations to the project site, showed a highest recorded 1-hour concentration of 1.5 ppm (the State standard is 20 ppm) and a highest 8-hour concentration of 1.3 ppm (the State standard is 9 ppm) during the past 3 years (Table E). The highest CO concentrations would normally occur during peak traffic hours; hence, CO impacts calculated under peak traffic conditions represent a worst-case analysis.

Based on the project's TIA, the proposed project would result in 186 a.m. and 250 p.m. peak-hour trips. With implementation of the recommended improvements outlined in the TIA, the proposed project would not result in any operational deficiencies to the surrounding roadway system. The evaluation of the study area intersections shows that the addition of traffic associated with the proposed project is not expected to create a significant level of service changes. Therefore, given the extremely low level of CO concentrations in the project area and the lack of traffic impacts at any intersections, project-related vehicles are not expected to result in CO concentrations exceeding the State or federal CO standards. No CO hot spots would occur, and the project would not result in any project-related impacts on CO concentrations.

Health Risk on Nearby Sensitive Receptors

Sensitive receptors are defined as residential uses, schools, daycare centers, nursing homes, and medical centers. Individuals particularly vulnerable to diesel particulate matter are children, whose lung tissue is still developing, and the elderly, who may have serious health problems that can be aggravated by exposure to diesel particulate matter. The project site is surrounded primarily by agricultural uses with some residential and commercial uses. The closest sensitive receptors to the project site include single-family residences located approximately 75 feet west of the project site and 100 feet north of the project site.

A construction HRA, which evaluates construction-period health risk to off-site receptors, was performed for the proposed project. Table I, below, identifies the results of the analysis assuming the use of Tier 2 construction equipment as proposed by the project. Model snapshots of the sources are shown in Appendix B.

Table I: Health Risks from Project Construction to Off-Site Receptors

Location	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index
Residential Receptor Risk	9.92	0.010	0.000
Worker Receptor Risk	6.02	0.010	0.000
School Receptor	0.24	<0.001	0.000
SJVAPCD Significance Threshold	**20.0 in one million**	**1.0**	**1.0**
Significant?	**No**	**No**	**No**

Source: LSA (June 2024).
SJVAPCD = San Joaquin Valley Air Pollution Control District

As shown in Table I, the maximum cancer risk for the residential receptor MEI would be 9.92 in one million, which would not exceed the SJVAPCD cancer risk threshold of 20 in one million. The worker receptor risk would be lower at 6.02 in one million and the school receptor risk would be 0.24 in one million, which would also not exceed the SJVAPCD cancer risk thresholds. The total chronic hazard index would be 0.010 for the residential receptor MEI and worker receptor MEI and less than 0.001 for the school receptor MEI, which are all below the threshold of 1.0. In addition, the total acute hazard index would be nominal (0.000), which would also not exceed the threshold of 1.0. Therefore, construction of the proposed project would not exceed SJVAPCD thresholds and would

not expose nearby sensitive receptors to substantial pollutant concentrations. No significant health risk would occur from project construction emissions.

The proposed project would include the construction of a 266-unit single-family residential development. As identified in Table H, project operational emissions of criteria pollutants would be below SJVAPCD significance thresholds; thus, they are not likely to have a significant impact on sensitive receptors. In addition, the proposed project would be required to implement District Rule 9510, Indirect Source Review (ISR). Implementation of Rule 9510 would reduce operational emissions of NO_X and PM_{10} by 33.3 percent and 50 percent, respectively. Compliance with SJVAPCD rules would further limit doses and exposures, reducing potential health risk related to vehicle and equipment emissions to a level that is not significant. Once the proposed project is constructed, the proposed project would not be a source of substantial emissions. Therefore, implementation of the proposed project would not result in new sources of TACs. Therefore, the project would not expose sensitive receptors to substantial levels of TACs.

Odors

The SJVAPCD addresses odor criteria within the GAMAQI. The district has not established a rule or standard regarding odor emissions, rather, the district has a nuisance rule: "Any project with the potential to frequently expose members of the public to objectionable odors should be deemed to have a significant impact."

During project construction, some odors may be present due to diesel exhaust. However, these odors would be temporary and limited to the construction period. The proposed uses are not anticipated to emit any objectionable odors. Any odors in general would be confined mainly to the project site and would readily dissipate. Therefore, the proposed project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

Naturally Occurring Asbestos

The project is in Fresno County, which is among the counties found to have serpentine and ultramafic rock in their soils.[29] However, according to the California Geological Survey, no such rock has been identified in the project vicinity. In addition, the proposed project would require demolition of the existing residential uses. As such, demolition activities may expose asbestos used in building materials; however, the proposed project would be required to comply with the SJVAPCD's rules related to demolition, including SJVAPCD Rule 3050: Asbestos Removal Fees and Rule 4002: National Emission Standards for Hazardous Air Pollutants, which would help reduce asbestos exposure. Therefore, with compliance of SJVAPCD Rules 3050 and 4002, the potential risk for naturally occurring asbestos (NOA) during project construction is small and would not be significant.

[29] California Department of Conservation (DOC). n.d. California Geological Survey. Asbestos. Website: https://www.conservation.ca.gov/cgs/minerals/mineral-hazards (accessed June 2024).

Valley Fever

The closest sensitive receptors to the project site include single-family residences located approximately 75 feet west of the project site and 100 feet north of the project site. Except under high wind conditions, this distance is sufficient that particulate matter would settle prior to reaching the nearest sensitive receptor. In addition, crosswinds influenced by the adjacent roadways would help dissipate any particulate matter associated with the construction phase of the project. Therefore, any Valley fever spores suspended with the dust would not be anticipated to reach the sensitive receptors. However, during project construction, it is possible that workers could be exposed to Valley fever through fugitive dust. Dust control measures, consistent with SJVAPCD Regulation VIII, would reduce the exposure to the workers and sensitive receptors. Therefore, dust from the construction of the project is not anticipated to significantly add to the existing exposure of people to Valley fever.

GREENHOUSE GAS IMPACTS

This section describes the potential GHG impacts associated with implementation the proposed project.

Generation of Greenhouse Gas Emissions

This section describes the proposed project's construction- and operational-related GHG emissions and contribution to global climate change.

Short-Term Greenhouse Gas Emissions

Construction activities associated with the construction of residential and nonresidential development capacity would cause short-term GHG emissions. Construction activities with the proposed project would produce combustion emissions from various sources. During construction, GHGs would be emitted through the operation of construction equipment and from worker and builder supply vendor vehicles, each of which typically use fossil-based fuels to operate. The combustion of fossil-based fuels creates GHGs such as CO_2, CH_4, and N_2O. Furthermore, CH_4 is emitted during the fueling of heavy equipment. Exhaust emissions from on-site construction activities would vary daily as construction activity levels change.

The SJVAPCD does not have an adopted threshold of significance for construction-related GHG emissions. However, lead agencies are encouraged to quantify and disclose GHG emissions that would occur during construction. Using CalEEMod, it is estimated that the annual emissions associated with construction of the proposed project would be approximately 1,545.0 metric tons of CO_2e per year. Construction GHG emissions were amortized over the life of the project (assumed to be 30 years) and added to the operational emissions. When annualized over the life of the project, amortized construction emissions would be approximately 51.5 MT CO_2e per year.

Long-Term Greenhouse Gas Emissions

Long-term GHG emissions are typically generated from mobile sources (e.g., vehicle and truck trips), area sources (e.g., maintenance activities and landscaping), indirect emissions from sources associated with energy consumption, waste sources (land filling and waste disposal), and water sources (water supply and conveyance, treatment, and distribution). Mobile-source GHG emissions

would include project-generated vehicle trips to and from the project. Area-source emissions would be associated with activities such as landscaping and maintenance on the project site. Energy source emissions would be generated at off-site utility providers as a result of increased electricity demand generated by the project. Waste source emissions generated by the proposed project include energy generated by land filling and other methods of disposal related to transporting and managing project generated waste. In addition, water source emissions associated with the proposed project are generated by water supply and conveyance, water treatment, water distribution, and wastewater treatment.

Following guidance from the SJVAPCD, GHG emissions for operation of the project were calculated using CalEEMod. Based on the analysis results, summarized in Table J, the proposed project would result in emissions of approximately 2,650.4 MT CO_2e per year. These estimated emissions are provided for informational purposes, and the significance of the proposed project is further analyzed below. CalEEMod output sheets are provided in Attachment B.

Table J: Project Greenhouse Gas Emissions

Emission Type	Operational Emissions (Metric Tons per Year)			
	CO_2	**CH_4**	**N_2O**	**CO_2e**
Mobile Sources	2,225.3	0.1	0.1	2,266.2
Area Sources	6.6	<0.1	<0.1	6.7
Energy Sources	229.7	<0.1	<0.1	231.9
Water Sources	12.3	0.3	<0.1	21.3
Waste Sources	21.1	2.1	0.0	72.8
Amortized Construction Emissions				51.5
Total Operational Emissions				**2,650.4**

Source: Compiled by LSA (June 2024).
CH_4 = methane
CO_2 = carbon dioxide
CO_2e = carbon dioxide equivalent
N_2O = nitrous oxide

As discussed, the SJVAPCD has not established a numeric threshold for GHG emissions. The significance of GHG emissions may be evaluated based on locally adopted quantitative thresholds or consistency with a regional GHG reduction plan (such as a Climate Action Plan [CAP]). Neither the City nor the SJVAPCD has developed or adopted numeric GHG significance thresholds. Therefore, the proposed project was analyzed for consistency with the 2022 Scoping Plan.

The 2022 Scoping Plan includes key project attributes that reduce operational GHG emissions in Appendix D, Local Actions,[30] of the 2022 Scoping Plan. As discussed in Appendix D of the 2022 Scoping Plan, absent consistency with an adequate, geographically specific GHG reduction plan such as a CEQA-qualified CAP, the first approach the State recommends for determining whether a proposed residential or mixed-use residential development would align with the State's climate goals is to examine whether the project includes key project attributes that reduce operational GHG emissions.

30 CARB. 2022a. *2022 Scoping Plan Appendix D Local Actions.* November. Website: https://ww2.arb.ca.gov/sites/default/files/2022-11/2022-sp-appendix-d-local-actions.pdf (accessed June 2024).

The project's consistency with key project attributes from the 2022 Scoping Plan that would be applicable to residential and mixed-use development is shown in Table K.

Table K: Project Consistency with the 2022 Scoping Plan Key Residential and Mixed-Use Project Attributes that Reduce GHGs

Priority Areas	Key Project Attribute	Project Consistency
Transportation Electrification	Provides EV charging infrastructure that, at minimum, meets the most ambitious voluntary standard in the CALGreen Code at the time of project approval	***Consistent.*** CALGreen Code requires provision of infrastructure to accommodate EV chargers. The proposed project would install a breaker and wiring for EV at each residence, consistent with CALGreen requirements. Therefore, the proposed project would be consistent with this key project attribute.
VMT Reduction	Is located on infill sites that are surrounded by existing urban uses and reuses or redevelops previously undeveloped or underutilized land that is presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer)	***Not consistent***. The project site is surrounded primarily by agricultural uses with some residential and commercial uses. The surrounding residential uses are presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer). However, as described in the TIA, the project's vehicle miles traveled (VMT) was calculated to be 14.9 VMT per capita, 5.5 percent higher than the City's VMT per capita threshold. As further discussed in the TIA, the project is consistent with the City's General Plan. While preparation of the General Plan, an Environmental Impact Report was prepared, along with a statement of Overriding consideration, that discussed the potential environmental impacts and required mitigation measures to be implemented/followed by all future projects that are consistent with the General Plan. The project will be conditioned to implement and follow these measures. Therefore, the though project will have a significant and unavoidable transportation impact under CEQA, no further mitigation measure would be required for the project. However, because the proposed project would result in a significant and unavoidable VMT impact, the proposed project would not be consistent with this key project attribute.
	Does not result in the loss or conversion of natural and working lands	***Not consistent.*** The project site is currently being used for residential and agricultural uses including an active orchard. The project site is zoned Exclusive Agricultural with a minimum 20-acre lot size. Based on California DOC FMMP information, the project site is designated as Prime Farmland and Farmland of Statewide Importance. According to the County of Fresno Assessor's Map, no portion of the project site is under an active Williamson Act contract. A site-specific LESA model was prepared for the project, which found that the conversion of the agricultural land (Prime Farmland, Farmland of Statewide Importance, and Farmland of Local Importance) on the project site to a non-agricultural use would constitute a significant impact. Therefore, the proposed project

Table K: Project Consistency with the 2022 Scoping Plan Key Residential and Mixed-Use Project Attributes that Reduce GHGs

Priority Areas	Key Project Attribute	Project Consistency
		would not be consistent with this key project attribute.
	Consists of transit-supportive densities (minimum of 20 residential dwelling units per acre) or is in proximity to existing transit stops (within a half mile) or satisfies more detailed and stringent criteria specified in the region's SCS	***Not consistent.*** The proposed project would include the construction of 266 single-family units on a 37-acre project site. Therefore, the proposed project would result in less than 20 residential dwelling units per acre. In addition, the project site is not located within 0.5 mile of a transit stop. As such, the proposed project would not be consistent with this key project attribute.
	Reduces parking requirements by eliminating parking requirements or including maximum allowable parking ratios (i.e., the ratio of parking spaces to residential units or square feet); or providing residential parking supply at a ratio of less than one parking space per dwelling unit; or for multifamily residential development, requiring parking costs to be unbundled from costs to rent or own a residential unit	***Consistent.*** The proposed project would consist of 266 single-family units and would be consistent with the City's parking requirements for single homes. The proposed project would not provide additional on-site street parking space. Thus, the project would be consistent with the intent of this key project attribute.
	At least 20 percent of units included are affordable to lower-income residents	***Consistent.*** The proposed project would not include affordable residential units. Although the proposed project would not include affordable housing, the proposed project would provide needed single-family housing. Therefore, the proposed project would be consistent with this key project attribute.
	Results in no net loss of existing affordable units	***Consistent.*** The proposed project would demolish two existing residential uses; however, the proposed project would not result in the removal of any existing affordable units. As such, the proposed project would be consistent with this key project attribute.
Building Decarbonization	Uses all-electric appliances without any natural gas connections and does not use propane or other fossil fuels for space heating, water heating, or indoor cooking	***Consistent.*** The proposed project would be all-electric, which is consistent with this key project attribute.

Source: Compiled by LSA (June 2024).
CALGreen Code = California Green Building Standards Code
DOC = California Department of Conservation
EV = electric vehicle
FMMP = Farmland Mapping and Monitoring Program
GHG = greenhouse gas
GPA = General Plan Amendment
LESA = Land Evaluation and Site Assessment
SCS = Sustainable Communities Strategy
VMT = vehicle miles traveled.

Residential and mixed-use projects that have all of the key project attributes as outlined in Table K would be considered to accommodate growth in a manner consistent with State GHG reduction and equity prioritization goals as outlined in the 2022 Scoping Plan. As demonstrated in Table K, the proposed project would not be consistent with the 2022 Scoping Plan key residential and mixed-use project attributes related to VMT reduction.

As discussed in Table K and in the project's TIA, the proposed project would result in a significant and unavoidable VMT impact. As previously noted, the project is consistent with the City's General Plan. During preparation of the General Plan, an EIR was prepared, along with a Statement of Overriding Consideration, that discussed the potential environmental impacts and required mitigation measures to be implemented/followed by all future projects that are consistent with the General Plan. The proposed project would be conditioned to implement and follow these measures. Therefore, though proposed project would have a significant and unavoidable transportation impact under CEQA, no further mitigation measure would be required for the project related to VMT.

The proposed project would implement required VMT mitigation measures as identified in the City's General Plan EIR. However, they would not reduce the impact to a less than significant level. Additionally, the proposed project would result in less than 20 residential dwelling units per acre and is not located within 0.5 mile of a transit stop. Further, as determined by the site-specific Land Evaluation and Site Assessment (LESA), conversion of the agricultural land (Prime Farmland, Farmland of Statewide Importance, and Farmland of Local Importance) on the project site to a non-agricultural use would constitute a significant impact. There are no additional feasible mitigation measures that would reduce this impact. As such, the proposed project would not be consistent with all project attributes in the 2022 Scoping Plan GHG emission thresholds. As such, the proposed project would result in the generation of GHG emissions would have a significant and unavoidable impact on the environment.

Consistency with Greenhouse Gas Emissions Reduction Plans

An evaluation of the proposed project's consistency with the 2022 Scoping Plan and the 2024–2050 RTP/SCS is provided below.

2022 Scoping Plan

The following discussion evaluates the proposed project according to the goals of the 2022 Scoping Plan, EO B-30-15, AB 1279, SB 32, and AB 197.

EO B-30-15 added the immediate target of reducing GHG emissions to 40 percent below 1990 levels by 2030. CARB released a second update to the Scoping Plan, the 2017 Scoping Plan, to reflect the 2030 target set by EO B-30-15 and codified by SB 32. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in EO B-30-15. SB 32 builds on AB 32 and keeps us on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels. The companion bill to SB 32, AB 197, provides additional direction to the CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 intended to provide easier public access to air emissions data that are collected by CARB was posted in December 2016. AB 1279 establishes State policy to achieve net zero GHG emissions no later than 2045 and for

Statewide anthropogenic GHG emissions to be reduced to at least 85 percent below 1990 levels by 2045.

In addition, the 2022 Scoping Plan assesses progress toward the statutory 2030 target, while laying out a path to achieving carbon neutrality no later than 2045. The 2022 Scoping Plan focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

The 2022 Scoping Plan focuses on building clean energy production and distribution infrastructure for a carbon-neutral future, including transitioning existing energy production and transmission infrastructure to produce zero-carbon electricity and hydrogen, and utilizing biogas resulting from wildfire management or landfill and dairy operations, among other substitutes. The 2022 Scoping Plan states that in almost all sectors, electrification will play an important role. The 2022 Scoping Plan evaluates clean energy and technology options and the transition away from fossil fuels, including adding four times the solar and wind capacity by 2045 and about 1,700 times the amount of current hydrogen supply. As discussed in the 2022 Scoping Plan, EO N-79-20 requires that all new passenger vehicles sold in California will be zero-emission by 2035, and all other fleets will have transitioned to zero-emission as fully possible by 2045, which will reduce the percentage of fossil fuel combustion vehicles.

Energy efficient measures are intended to maximize energy efficiency building and appliance standards, pursue additional efficiency efforts including new technologies and new policy and implementation mechanisms, and pursue comparable investment in energy efficiency from all retail providers of electricity in California. In addition, these measures are designed to expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings. As identified above, buildout of the proposed project would be required to comply with the latest Title 24 and CALGreen Code standards regarding water efficiency and energy conservation requirements. Additionally, the proposed project would be all-electric. The elimination of natural gas in new development would help projects implement their "fair share" of achieving long-term 2045 carbon neutrality consistent with State goals. As such, if a project does not utilize natural gas, a lead agency can conclude that it would be consistent with achieving the 2045 neutrality goal and will not have a cumulative considerable impact on climate change.[31] In addition, the proposed project would include the following sustainable features: installation of ENERGY STAR dishwashers, bathroom exhaust fans, water heaters, and windows; installation of high-efficiency HVAC systems and programmable thermostats; installation of solar on each residence per CALGreen Code requirements; installation of cool roof tiles and high-performance, formaldehyde-free insulation; installation of MERV-8 filters; installation of LED lighting; and independent inspections at random for

[31] Bay Area Air Quality Management District (BAAQMD). 2022. *Justification Report: CEQA Thresholds for Evaluating the Significance of Climate Impacts From Land Use Projects and Plans.* April. Website: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-b-thresholds-for-evaluating-significance-of-climate-impacts_final-pdf (accessed June 2024).

energy-efficiency verification. Therefore, the proposed project would comply with applicable energy measures.

Water conservation and efficiency measures are intended to continue efficiency programs and use cleaner energy sources to move and treat water. Increasing the efficiency of water transport and reducing water use would reduce GHG emissions. As noted above, buildout associated with the proposed project would be required to comply with the latest Title 24 and CALGreen Code standards, which include a variety of different measures, including reduction of wastewater and water use. In addition, the proposed project would use drip irrigation and install low-flow water fixtures. Therefore, the proposed project would not conflict with any of the water conservation and efficiency measures.

The goal of transportation and motor vehicle measures is to develop regional GHG emissions reduction targets for passenger vehicles. Specific regional emission targets for transportation emissions would not directly apply to the proposed project. The Pavley II (LEV III) Advanced Clean Cars Program will reduce GHG emissions from new cars by 34 percent from 2016 levels by 2025, resulting in a 3 percent decrease in average vehicle emissions for all vehicles by 2020. Vehicles traveling to the project site would comply with the Pavley II (LEV III) Advanced Clean Cars Program. Therefore, the proposed project would not conflict with the identified transportation and motor vehicle measures.

Fresno COG 2022 RTP/SCS

The Fresno COG RTP/SCS reflects transportation planning for Fresno County through 2046. The vision, goals, and policies in the 2022 RTP are intended to serve as the foundation for both short and long-term planning and guide implementation activities. The core vision in the 2022 RTP is to create a region of diverse, safe, resilient, and accessible transportation options that improve the quality of life for all residents by fostering sustainability, equity, a vibrant economy, clean air, and healthy communities. The 2022 RTP contains transportation projects to help more efficiently distribute population, housing, and employment growth, as well as forecast development that is generally consistent with regional-level general plan data. The actions in the 2022 RTP address all transportation modes (e.g., highways, local streets and roads, mass transportation, rail, bicycle, and aviation facilities and services) and consists of short and long-term activities that address regional transportation needs. While the actions are organized by the five key policy areas, many of them support multiple goals and policies. Some actions are intended to support the SCS and reduce GHG emissions directly, while others are focused on the RTP's broader goals. The 2022 RTP does not require that local General Plans, Specific Plans, or zoning be consistent with the 2022 RTP, but provides incentives for consistency for governments and developers.

The proposed project would not interfere with the Fresno COG's ability to achieve the region's GHG reductions. Furthermore, the proposed project is not regionally significant per *State CEQA Guidelines* Section 15206, and it would not conflict with the 2022 RTP targets because those targets were established and are applicable on a regional level. The proposed project would include the construction of 266 single-family residential units. As such, the proposed project land uses would be consistent with the growth assumptions used in the 2022 RTP. Therefore, it is anticipated that

implementation of the proposed project would not interfere with Fresno COG's ability to implement the regional strategies outlined in the 2022 RTP.

Summary

As described above, the proposed project would generally comply with existing State regulations adopted to achieve the overall GHG emissions reduction goals identified in the 2022 RTP. However, as described above, the proposed project would not be consistent with the 2022 Scoping Plan key residential and mixed-use project attributes related to VMT reduction. As such, the proposed project would not contribute to its "fair share" of emission reductions required to support achieving long-term State GHG reduction goals due to project's significant and unavoidable VMT impact. Therefore, the proposed project would conflict with the plans and policies adopted for the purpose of reducing the emissions of greenhouse gases, including the CARB 2022 Scoping Plan, Executive Order B-30-15, SB 32, and AB 1279.

CONCLUSION

Based on the analysis presented above, construction and operation of the proposed project would not result in the generation of criteria air pollutants that would exceed SJVAPCD thresholds of significance. In addition, the proposed project is not expected to produce significant emissions that would affect nearby sensitive receptors. The project would also not result in other emissions (such as those leading to odors) affecting a substantial number of people. Operation of the proposed project would generate GHG emissions that would have a significant and unavoidable impact on the environment. In addition, the proposed project would be consistent with the growth assumptions used in the Fresno COG 2022 RTP/SCS, but would not be consistent with the goals of the 2022 Scoping Plan.

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APPENDIX A

CALEEMOD OUTPUT SHEETS

De Young Properties Peach & Behymer Project Custom Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	De Young Properties Peach & Behymer Project
Construction Start Date	12/2/2024
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	21.2
Location	36.88062613315833, -119.71577194386307
County	Fresno
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2569
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.24

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Single Family Housing	266	Dwelling Unit	36.2	518,700	3,115,620	—	851	—
City Park	0.84	Acre	0.84	0.00	36,590	36,590	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-6	Use Diesel Particulate Filters
Energy	E-2	Require Energy Efficient Appliances
Energy	E-7*	Require Higher Efficacy Public Street and Area Lighting
Energy	E-22*	Obtain Third-party HVAC Commissioning and Veri cation of Energy Savings
Water	W-4	Require Low-Flow Water Fixtures
Water	W-5	Design Water-Efficient Landscapes
Waste	S-4*	Recycle Demolished Construction Material

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	59.1	48.9	36.1	0.06	1.36	3.70	5.06	1.23	1.45	2.68	—	6,720	6,720	0.27	0.10	6,745
Mit.	59.1	48.9	36.1	0.06	0.20	3.70	3.90	0.18	1.45	1.64	—	6,720	6,720	0.27	0.10	6,745
% Reduced	—	—	—	—	85%	—	23%	85%	—	39%	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	59.1	48.9	36.0	0.06	1.36	7.76	8.88	1.23	3.96	4.98	—	6,706	6,706	0.27	0.10	6,731
Mit.	59.1	48.9	36.0	0.06	0.20	7.76	7.93	0.18	3.96	4.11	—	6,706	6,706	0.27	0.10	6,731
% Reduced	—	—	—	—	85%	—	11%	85%	—	17%	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.23	22.1	17.3	0.03	0.67	1.62	2.29	0.62	0.68	1.29	—	3,244	3,244	0.13	0.07	3,264
Mit.	9.23	22.1	17.3	0.03	0.10	1.62	1.72	0.09	0.68	0.77	—	3,244	3,244	0.13	0.07	3,264
% Reduced	—	—	—	—	85%	—	25%	85%	—	40%	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.69	4.03	3.15	0.01	0.12	0.30	0.42	0.11	0.12	0.24	—	537	537	0.02	0.01	540
Mit.	1.69	4.03	3.15	0.01	0.02	0.30	0.31	0.02	0.12	0.14	—	537	537	0.02	0.01	540
% Reduced	—	—	—	—	85%	—	25%	85%	—	40%	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.42	48.9	36.1	0.06	1.36	3.70	5.06	1.23	1.45	2.68	—	6,720	6,720	0.27	0.10	6,745
2026	1.02	19.7	17.8	0.03	0.69	0.62	1.31	0.65	0.15	0.80	—	3,333	3,333	0.12	0.10	3,368
2027	1.00	19.6	17.6	0.03	0.69	0.62	1.31	0.65	0.15	0.80	—	3,313	3,313	0.12	0.09	3,347
2028	59.1	19.6	17.4	0.03	0.69	0.62	1.31	0.65	0.15	0.80	—	3,294	3,294	0.12	0.09	3,327

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.78	25.1	18.7	0.03	0.79	0.19	0.98	0.71	0.04	0.75	—	3,615	3,615	0.15	0.05	3,633
2025	1.41	48.9	36.0	0.06	1.36	7.76	8.88	1.23	3.96	4.98	—	6,706	6,706	0.27	0.10	6,731
2026	0.98	19.7	17.2	0.03	0.69	0.62	1.31	0.65	0.15	0.80	—	3,270	3,270	0.13	0.10	3,302
2027	0.94	19.7	17.0	0.03	0.69	0.62	1.31	0.65	0.15	0.80	—	3,251	3,251	0.13	0.10	3,283
2028	59.1	19.7	16.8	0.03	0.69	0.62	1.31	0.65	0.15	0.80	—	3,233	3,233	0.13	0.10	3,265
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.05	1.47	1.10	< 0.005	0.05	0.01	0.06	0.04	< 0.005	0.04	—	212	212	0.01	< 0.005	213
2025	0.79	22.1	17.3	0.03	0.67	1.62	2.29	0.62	0.68	1.29	—	3,244	3,244	0.13	0.05	3,264
2026	0.70	14.1	12.3	0.02	0.50	0.43	0.93	0.46	0.10	0.57	—	2,348	2,348	0.09	0.07	2,372
2027	0.69	14.0	12.2	0.02	0.50	0.43	0.93	0.46	0.10	0.57	—	2,335	2,335	0.09	0.07	2,358
2028	9.23	7.25	6.23	0.01	0.28	0.18	0.46	0.26	0.04	0.30	—	1,114	1,114	0.04	0.03	1,124
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.01	0.27	0.20	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	35.2	35.2	< 0.005	< 0.005	35.3
2025	0.14	4.03	3.15	0.01	0.12	0.30	0.42	0.11	0.12	0.24	—	537	537	0.02	0.01	540
2026	0.13	2.57	2.25	< 0.005	0.09	0.08	0.17	0.08	0.02	0.10	—	389	389	0.01	0.01	393
2027	0.13	2.56	2.22	< 0.005	0.09	0.08	0.17	0.08	0.02	0.10	—	387	387	0.01	0.01	390
2028	1.69	1.32	1.14	< 0.005	0.05	0.03	0.08	0.05	0.01	0.06	—	185	185	0.01	< 0.005	186

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.42	48.9	36.1	0.06	0.20	3.70	3.90	0.18	1.45	1.64	—	6,720	6,720	0.27	0.10	6,745

2026	1.02	19.7	17.8	0.03	0.11	0.62	0.72	0.10	0.15	0.25	—	3,333	3,333	0.12	0.10	3,368
2027	1.00	19.6	17.6	0.03	0.11	0.62	0.72	0.10	0.15	0.25	—	3,313	3,313	0.12	0.09	3,347
2028	59.1	19.6	17.4	0.03	0.11	0.62	0.72	0.10	0.15	0.25	—	3,294	3,294	0.12	0.09	3,327
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.78	25.1	18.7	0.03	0.12	0.19	0.31	0.11	0.04	0.15	—	3,615	3,615	0.15	0.05	3,633
2025	1.41	48.9	36.0	0.06	0.20	7.76	7.93	0.18	3.96	4.11	—	6,706	6,706	0.27	0.10	6,731
2026	0.98	19.7	17.2	0.03	0.11	0.62	0.72	0.10	0.15	0.25	—	3,270	3,270	0.13	0.10	3,302
2027	0.94	19.7	17.0	0.03	0.11	0.62	0.72	0.10	0.15	0.25	—	3,251	3,251	0.13	0.10	3,283
2028	59.1	19.7	16.8	0.03	0.11	0.62	0.72	0.10	0.15	0.25	—	3,233	3,233	0.13	0.10	3,265
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.05	1.47	1.10	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	—	212	212	0.01	< 0.005	213
2025	0.79	22.1	17.3	0.03	0.10	1.62	1.72	0.09	0.68	0.77	—	3,244	3,244	0.13	0.05	3,264
2026	0.70	14.1	12.3	0.02	0.08	0.43	0.51	0.07	0.10	0.18	—	2,348	2,348	0.09	0.07	2,372
2027	0.69	14.0	12.2	0.02	0.08	0.43	0.51	0.07	0.10	0.18	—	2,335	2,335	0.09	0.07	2,358
2028	9.23	7.25	6.23	0.01	0.04	0.18	0.23	0.04	0.04	0.08	—	1,114	1,114	0.04	0.03	1,124
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.01	0.27	0.20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	35.2	35.2	< 0.005	< 0.005	35.3
2025	0.14	4.03	3.15	0.01	0.02	0.30	0.31	0.02	0.12	0.14	—	537	537	0.02	0.01	540
2026	0.13	2.57	2.25	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	389	389	0.01	0.01	393
2027	0.13	2.56	2.22	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	387	387	0.01	0.01	390
2028	1.69	1.32	1.14	< 0.005	0.01	0.03	0.04	0.01	0.01	0.02	—	185	185	0.01	< 0.005	186

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	21.8	6.82	72.2	0.14	0.11	11.9	12.0	0.10	3.02	3.12	148	15,907	16,055	15.7	0.78	16,723
Mit.	21.8	6.82	72.2	0.14	0.11	11.9	12.0	0.10	3.02	3.12	144	15,867	16,010	15.2	0.77	16,664
% Reduced	—	—	—	—	—	—	—	—	—	—	3%	< 0.5%	< 0.5%	3%	1%	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.5	7.60	50.2	0.13	0.10	11.9	12.0	0.10	3.02	3.11	148	14,687	14,835	15.8	0.83	15,480
Mit.	19.5	7.60	50.2	0.13	0.10	11.9	12.0	0.10	3.02	3.11	144	14,647	14,791	15.3	0.82	15,422
% Reduced	—	—	—	—	—	—	—	—	—	—	3%	< 0.5%	< 0.5%	3%	1%	< 0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.3	7.23	57.3	0.13	0.11	11.7	11.8	0.10	2.97	3.07	148	14,966	15,114	15.7	0.80	15,766
Mit.	20.3	7.23	57.3	0.13	0.11	11.7	11.8	0.10	2.97	3.07	144	14,926	15,069	15.3	0.79	15,707
% Reduced	—	—	—	—	—	—	—	—	—	—	3%	< 0.5%	< 0.5%	3%	1%	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.70	1.32	10.5	0.02	0.02	2.14	2.16	0.02	0.54	0.56	24.5	2,478	2,502	2.60	0.13	2,610
Mit.	3.70	1.32	10.5	0.02	0.02	2.14	2.16	0.02	0.54	0.56	23.8	2,471	2,495	2.53	0.13	2,601
% Reduced	—	—	—	—	—	—	—	—	—	—	3%	< 0.5%	< 0.5%	3%	1%	< 0.5%

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.44	6.68	57.1	0.14	0.10	11.9	12.0	0.10	3.02	3.11	—	14,292	14,292	0.57	0.70	14,554
Area	13.3	0.14	15.1	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	130	130	0.02	< 0.005	131
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,389	1,389	0.22	0.03	1,403
Water	—	—	—	—	—	—	—	—	—	—	20.5	95.8	116	2.12	0.05	185
Waste	—	—	—	—	—	—	—	—	—	—	127	0.00	127	12.7	0.00	446
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.71
Total	21.8	6.82	72.2	0.14	0.11	11.9	12.0	0.10	3.02	3.12	148	15,907	16,055	15.7	0.78	16,723
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.50	7.60	50.2	0.13	0.10	11.9	12.0	0.10	3.02	3.11	—	13,112	13,112	0.67	0.75	13,352
Area	12.0	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	89.6	89.6	0.01	< 0.005	90.5
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,389	1,389	0.22	0.03	1,403
Water	—	—	—	—	—	—	—	—	—	—	20.5	95.8	116	2.12	0.05	185
Waste	—	—	—	—	—	—	—	—	—	—	127	0.00	127	12.7	0.00	446
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.71
Total	19.5	7.60	50.2	0.13	0.10	11.9	12.0	0.10	3.02	3.11	148	14,687	14,835	15.8	0.83	15,480
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.62	7.16	49.8	0.13	0.10	11.7	11.8	0.10	2.97	3.07	—	13,441	13,441	0.62	0.72	13,688
Area	12.7	0.07	7.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	40.0	40.0	< 0.005	< 0.005	40.3
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,389	1,389	0.22	0.03	1,403
Water	—	—	—	—	—	—	—	—	—	—	20.5	95.8	116	2.12	0.05	185
Waste	—	—	—	—	—	—	—	—	—	—	127	0.00	127	12.7	0.00	446
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.71
Total	20.3	7.23	57.3	0.13	0.11	11.7	11.8	0.10	2.97	3.07	148	14,966	15,114	15.7	0.80	15,766

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.39	1.31	9.09	0.02	0.02	2.14	2.16	0.02	0.54	0.56	—	2,225	2,225	0.10	0.12	2,266
Area	2.31	0.01	1.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	6.63	6.63	< 0.005	< 0.005	6.67
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	230	230	0.04	< 0.005	232
Water	—	—	—	—	—	—	—	—	—	—	3.40	15.9	19.3	0.35	0.01	30.6
Waste	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.11	0.00	73.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.62
Total	3.70	1.32	10.5	0.02	0.02	2.14	2.16	0.02	0.54	0.56	24.5	2,478	2,502	2.60	0.13	2,610

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.44	6.68	57.1	0.14	0.10	11.9	12.0	0.10	3.02	3.11	—	14,292	14,292	0.57	0.70	14,554
Area	13.3	0.14	15.1	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	130	130	0.02	< 0.005	131
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,387	1,387	0.22	0.03	1,401
Water	—	—	—	—	—	—	—	—	—	—	16.5	57.7	74.1	1.70	0.04	129
Waste	—	—	—	—	—	—	—	—	—	—	127	0.00	127	12.7	0.00	446
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.71
Total	21.8	6.82	72.2	0.14	0.11	11.9	12.0	0.10	3.02	3.12	144	15,867	16,010	15.2	0.77	16,664
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.50	7.60	50.2	0.13	0.10	11.9	12.0	0.10	3.02	3.11	—	13,112	13,112	0.67	0.75	13,352
Area	12.0	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	89.6	89.6	0.01	< 0.005	90.5
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,387	1,387	0.22	0.03	1,401
Water	—	—	—	—	—	—	—	—	—	—	16.5	57.7	74.1	1.70	0.04	129

Waste	—	—	—	—	—	—	—	—	—	—	127	0.00	127	12.7	0.00	446
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.71
Total	19.5	7.60	50.2	0.13	0.10	11.9	12.0	0.10	3.02	3.11	144	14,647	14,791	15.3	0.82	15,422
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.62	7.16	49.8	0.13	0.10	11.7	11.8	0.10	2.97	3.07	—	13,441	13,441	0.62	0.72	13,688
Area	12.7	0.07	7.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	40.0	40.0	< 0.005	< 0.005	40.3
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,387	1,387	0.22	0.03	1,401
Water	—	—	—	—	—	—	—	—	—	—	16.5	57.7	74.1	1.70	0.04	129
Waste	—	—	—	—	—	—	—	—	—	—	127	0.00	127	12.7	0.00	446
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.71
Total	20.3	7.23	57.3	0.13	0.11	11.7	11.8	0.10	2.97	3.07	144	14,926	15,069	15.3	0.79	15,707
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.39	1.31	9.09	0.02	0.02	2.14	2.16	0.02	0.54	0.56	—	2,225	2,225	0.10	0.12	2,266
Area	2.31	0.01	1.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	6.63	6.63	< 0.005	< 0.005	6.67
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	230	230	0.04	< 0.005	232
Water	—	—	—	—	—	—	—	—	—	—	2.72	9.55	12.3	0.28	0.01	21.3
Waste	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.11	0.00	73.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.62
Total	3.70	1.32	10.5	0.02	0.02	2.14	2.16	0.02	0.54	0.56	23.8	2,471	2,495	2.53	0.13	2,601

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	24.9	18.2	0.03	0.79	—	0.79	0.71	—	0.71	—	3,425	3,425	0.14	0.03	3,437
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.46	1.07	< 0.005	0.05	—	0.05	0.04	—	0.04	—	201	201	0.01	< 0.005	202
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.27	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	33.3	33.3	< 0.005	< 0.005	33.4
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.49	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	82.4	82.4	< 0.005	< 0.005	83.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	107	107	< 0.005	0.02	112
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.01	5.01	< 0.005	< 0.005	5.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.28	6.28	< 0.005	< 0.005	6.59
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	0.84
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.04	1.04	< 0.005	< 0.005	1.09

3.2. Demolition (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	24.9	18.2	0.03	0.12	—	0.12	0.11	—	0.11	—	3,425	3,425	0.14	0.03	3,437
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.46	1.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	201	201	0.01	< 0.005	202

Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.27	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.3	33.3	< 0.005	< 0.005	33.4
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.49	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	82.4	82.4	< 0.005	< 0.005	83.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	107	107	< 0.005	0.02	112
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.01	5.01	< 0.005	< 0.005	5.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.28	6.28	< 0.005	< 0.005	6.59
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	0.84
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.04	1.04	< 0.005	< 0.005	1.09

3.3. Demolition (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	24.9	18.2	0.03	0.79	—	0.79	0.71	—	0.71	—	3,425	3,425	0.14	0.03	3,437
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	2.00	1.46	< 0.005	0.06	—	0.06	0.06	—	0.06	—	275	275	0.01	< 0.005	276
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.37	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	45.5	45.5	< 0.005	< 0.005	45.7
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.45	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	80.7	80.7	< 0.005	< 0.005	82.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.13	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	105	105	< 0.005	0.02	110
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.71	6.71	< 0.005	< 0.005	6.82
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.42	8.42	< 0.005	< 0.005	8.82
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.11	1.11	< 0.005	< 0.005	1.13
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.39	1.39	< 0.005	< 0.005	1.46

3.4. Demolition (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	24.9	18.2	0.03	0.12	—	0.12	0.11	—	0.11	—	3,425	3,425	0.14	0.03	3,437
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	2.00	1.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	275	275	0.01	< 0.005	276
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.37	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	45.5	45.5	< 0.005	< 0.005	45.7
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.45	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	80.7	80.7	< 0.005	< 0.005	82.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.13	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	105	105	< 0.005	0.02	110
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.71	6.71	< 0.005	< 0.005	6.82
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.42	8.42	< 0.005	< 0.005	8.82
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.11	1.11	< 0.005	< 0.005	1.13

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.39	1.39	< 0.005	< 0.005	1.46

3.5. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	39.9	28.3	0.05	1.12	—	1.12	1.02	—	1.02	—	5,295	5,295	0.21	0.04	5,314
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	3.28	2.33	< 0.005	0.09	—	0.09	0.08	—	0.08	—	435	435	0.02	< 0.005	437
Dust From Material Movement	—	—	—	—	—	0.63	0.63	—	0.32	0.32	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.60	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	72.1	72.1	< 0.005	< 0.005	72.3

Dust From Material Movement	—	—	—	—	—	0.11	0.11	—	0.06	0.06	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.05	0.53	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	94.2	94.2	< 0.005	< 0.005	95.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.02	8.02	< 0.005	< 0.005	8.15
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.33	1.33	< 0.005	< 0.005	1.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.6. Site Preparation (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	39.9	28.3	0.05	0.17	—	0.17	0.15	—	0.15	—	5,295	5,295	0.21	0.04	5,314
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	3.28	2.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	435	435	0.02	< 0.005	437
Dust From Material Movement	—	—	—	—	—	0.63	0.63	—	0.32	0.32	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.60	0.42	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	72.1	72.1	< 0.005	< 0.005	72.3
Dust From Material Movement	—	—	—	—	—	0.11	0.11	—	0.06	0.06	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.05	0.53	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	94.2	94.2	< 0.005	< 0.005	95.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.02	8.02	< 0.005	< 0.005	8.15
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.33	1.33	< 0.005	< 0.005	1.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.7. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	48.8	35.3	0.06	1.36	—	1.36	1.23	—	1.23	—	6,599	6,599	0.27	0.05	6,622
Dust From Material Movement	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	48.8	35.3	0.06	1.36	—	1.36	1.23	—	1.23	—	6,599	6,599	0.27	0.05	6,622
Dust From Material Movement	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	10.0	7.26	0.01	0.28	—	0.28	0.25	—	0.25	—	1,356	1,356	0.06	0.01	1,361
Dust From Material Movement	—	—	—	—	—	0.74	0.74	—	0.29	0.29	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.83	1.33	< 0.005	0.05	—	0.05	0.05	—	0.05	—	224	224	0.01	< 0.005	225
Dust From Material Movement	—	—	—	—	—	0.13	0.13	—	0.05	0.05	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.05	0.74	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	121	121	< 0.005	0.01	123
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.05	0.60	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	108	108	< 0.005	0.01	109
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.9	22.9	< 0.005	< 0.005	23.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.79	3.79	< 0.005	< 0.005	3.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.8. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	48.8	35.3	0.06	0.20	—	0.20	0.18	—	0.18	—	6,599	6,599	0.27	0.05	6,622
Dust From Material Movement	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	48.8	35.3	0.06	0.20	—	0.20	0.18	—	0.18	—	6,599	6,599	0.27	0.05	6,622
Dust From Material Movement	—	—	—	—	—	3.59	3.59	—	1.42	1.42	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	10.0	7.26	0.01	0.04	—	0.04	0.04	—	0.04	—	1,356	1,356	0.06	0.01	1,361
Dust From Material Movement	—	—	—	—	—	0.74	0.74	—	0.29	0.29	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.83	1.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	224	224	0.01	< 0.005	225
Dust From Material Movement	—	—	—	—	—	0.13	0.13	—	0.05	0.05	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.05	0.74	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	121	121	< 0.005	0.01	123
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.05	0.60	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	108	108	< 0.005	0.01	109
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.9	22.9	< 0.005	< 0.005	23.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.79	3.79	< 0.005	< 0.005	3.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	6.46	4.90	0.01	0.24	—	0.24	0.22	—	0.22	—	821	821	0.03	0.01	824
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.18	0.89	< 0.005	0.04	—	0.04	0.04	—	0.04	—	136	136	0.01	< 0.005	136
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.22	3.56	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	581	581	0.02	0.02	591
Vendor	0.02	0.60	0.27	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	374	374	0.01	0.06	392
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.36	0.26	2.89	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	515	515	0.02	0.02	523
Vendor	0.02	0.64	0.28	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	375	375	0.01	0.06	391
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.08	1.01	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	183	183	0.01	0.01	186
Vendor	0.01	0.21	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	128	128	< 0.005	0.02	134

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.18	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	30.3	30.3	< 0.005	< 0.005	30.8
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	21.2	21.2	< 0.005	< 0.005	22.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.10	—	0.10	0.10	—	0.10	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.10	—	0.10	0.10	—	0.10	—	2,398	2,398	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	6.46	4.90	0.01	0.04	—	0.04	0.03	—	0.03	—	821	821	0.03	0.01	824
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	1.18	0.89	< 0.005	0.01	—	0.01	0.01	—	0.01	—	136	136	0.01	< 0.005	136
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.22	3.56	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	581	581	0.02	0.02	591
Vendor	0.02	0.60	0.27	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	374	374	0.01	0.06	392
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.36	0.26	2.89	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	515	515	0.02	0.02	523
Vendor	0.02	0.64	0.28	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	375	375	0.01	0.06	391
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.08	1.01	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	183	183	0.01	0.01	186
Vendor	0.01	0.21	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	128	128	< 0.005	0.02	134
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.18	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	30.3	30.3	< 0.005	< 0.005	30.8
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	21.2	21.2	< 0.005	< 0.005	22.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	13.5	10.2	0.02	0.49	—	0.49	0.46	—	0.46	—	1,712	1,712	0.07	0.01	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	2.46	1.86	< 0.005	0.09	—	0.09	0.08	—	0.08	—	283	283	0.01	< 0.005	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.20	3.28	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	568	568	0.02	0.02	578
Vendor	0.02	0.58	0.26	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	367	367	0.01	0.06	385
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.24	2.65	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	505	505	0.02	0.02	513
Vendor	0.02	0.62	0.27	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	368	368	0.01	0.06	384
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.16	1.93	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	373	373	0.01	0.02	380
Vendor	0.01	0.43	0.19	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	262	262	0.01	0.04	275
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.35	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	61.8	61.8	< 0.005	< 0.005	62.8
Vendor	< 0.005	0.08	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	43.4	43.4	< 0.005	0.01	45.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.10	—	0.10	0.10	—	0.10	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.62	18.9	14.3	0.02	0.10	—	0.10	0.10	—	0.10	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	13.5	10.2	0.02	0.07	—	0.07	0.07	—	0.07	—	1,712	1,712	0.07	0.01	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	2.46	1.86	< 0.005	0.01	—	0.01	0.01	—	0.01	—	283	283	0.01	< 0.005	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.20	3.28	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	568	568	0.02	0.02	578
Vendor	0.02	0.58	0.26	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	367	367	0.01	0.06	385
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.24	2.65	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	505	505	0.02	0.02	513
Vendor	0.02	0.62	0.27	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	368	368	0.01	0.06	384
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.16	1.93	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	373	373	0.01	0.02	380
Vendor	0.01	0.43	0.19	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	262	262	0.01	0.04	275

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.35	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	61.8	61.8	< 0.005	< 0.005	62.8
Vendor	< 0.005	0.08	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	43.4	43.4	< 0.005	0.01	45.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.13. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	13.5	10.2	0.02	0.49	—	0.49	0.46	—	0.46	—	1,712	1,712	0.07	0.01	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.08	2.46	1.86	< 0.005	0.09	—	0.09	0.08	—	0.08	—	283	283	0.01	< 0.005	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.36	0.18	3.03	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	557	557	0.01	0.02	566
Vendor	0.02	0.56	0.25	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	359	359	0.01	0.05	376
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.22	2.46	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	494	494	0.02	0.02	502
Vendor	0.02	0.60	0.26	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	360	360	0.01	0.05	376
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.14	1.78	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	366	366	0.01	0.02	372
Vendor	0.01	0.42	0.18	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	257	257	0.01	0.04	268
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.32	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	60.5	60.5	< 0.005	< 0.005	61.6
Vendor	< 0.005	0.08	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	42.5	42.5	< 0.005	0.01	44.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.14. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.10	—	0.10	0.10	—	0.10	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.10	—	0.10	0.10	—	0.10	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	13.5	10.2	0.02	0.07	—	0.07	0.07	—	0.07	—	1,712	1,712	0.07	0.01	1,718
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	2.46	1.86	< 0.005	0.01	—	0.01	0.01	—	0.01	—	283	283	0.01	< 0.005	284
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.36	0.18	3.03	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	557	557	0.01	0.02	566
Vendor	0.02	0.56	0.25	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	359	359	0.01	0.05	376
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.22	2.46	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	494	494	0.02	0.02	502
Vendor	0.02	0.60	0.26	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	360	360	0.01	0.05	376
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.14	1.78	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	366	366	0.01	0.02	372
Vendor	0.01	0.42	0.18	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	257	257	0.01	0.04	268
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.32	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	60.5	60.5	< 0.005	< 0.005	61.6
Vendor	< 0.005	0.08	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	42.5	42.5	< 0.005	0.01	44.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.15. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,397	2,397	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,397	2,397	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	4.87	3.69	0.01	0.18	—	0.18	0.17	—	0.17	—	619	619	0.03	0.01	621
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.89	0.67	< 0.005	0.03	—	0.03	0.03	—	0.03	—	103	103	< 0.005	< 0.005	103
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.16	2.82	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	546	546	0.01	0.02	555
Vendor	0.02	0.55	0.25	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	350	350	0.01	0.05	367
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.29	0.20	2.28	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	485	485	0.02	0.02	493
Vendor	0.02	0.58	0.26	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	351	351	0.01	0.05	367
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.05	0.60	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	130	130	< 0.005	0.01	132
Vendor	< 0.005	0.15	0.06	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	90.6	90.6	< 0.005	0.01	94.8

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	21.5	21.5	< 0.005	< 0.005	21.8
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.0	15.0	< 0.005	< 0.005	15.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.16. Building Construction (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.10	—	0.10	0.10	—	0.10	—	2,397	2,397	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.10	—	0.10	0.10	—	0.10	—	2,397	2,397	0.10	0.02	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	4.87	3.69	0.01	0.03	—	0.03	0.02	—	0.02	—	619	619	0.03	0.01	621
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.89	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	103	103	< 0.005	< 0.005	103
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.16	2.82	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	546	546	0.01	0.02	555
Vendor	0.02	0.55	0.25	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	350	350	0.01	0.05	367
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.29	0.20	2.28	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	485	485	0.02	0.02	493
Vendor	0.02	0.58	0.26	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	351	351	0.01	0.05	367
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.05	0.60	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	130	130	< 0.005	0.01	132
Vendor	< 0.005	0.15	0.06	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	90.6	90.6	< 0.005	0.01	94.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	21.5	21.5	< 0.005	< 0.005	21.8
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.0	15.0	< 0.005	< 0.005	15.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.17. Paving (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.58	—	0.58	0.54	—	0.54	—	1,511	1,511	0.06	0.01	1,516
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	2.00	1.60	< 0.005	0.09	—	0.09	0.08	—	0.08	—	228	228	0.01	< 0.005	228
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.37	0.29	< 0.005	0.02	—	0.02	0.01	—	0.01	—	37.7	37.7	< 0.005	< 0.005	37.8
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.02	0.44	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	85.5	85.5	< 0.005	< 0.005	86.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.9	11.9	< 0.005	< 0.005	12.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.96	1.96	< 0.005	< 0.005	1.99
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.18. Paving (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	1,516
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.08	2.00	1.60	< 0.005	0.01	—	0.01	0.01	—	0.01	—	228	228	0.01	< 0.005	228
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.37	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.7	37.7	< 0.005	< 0.005	37.8
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.02	0.44	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	85.5	85.5	< 0.005	< 0.005	86.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.9	11.9	< 0.005	< 0.005	12.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.96	1.96	< 0.005	< 0.005	1.99
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.19. Architectural Coating (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	134
Architectural Coatings	59.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	134
Architectural Coatings	59.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.16	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	20.1	20.1	< 0.005	< 0.005	20.2
Architectural Coatings	8.89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.33	3.33	< 0.005	< 0.005	3.34
Architectural Coatings	1.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.03	0.56	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	109	109	< 0.005	< 0.005	111
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.46	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	97.0	97.0	< 0.005	< 0.005	98.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.1	15.1	< 0.005	< 0.005	15.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.51	2.51	< 0.005	< 0.005	2.54
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.20. Architectural Coating (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	134
Architectural Coatings	59.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	134
Architectural Coatings	59.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.16	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	20.2
Architectural Coatings	8.89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.33	3.33	< 0.005	< 0.005	3.34
Architectural Coatings	1.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.03	0.56	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	109	109	< 0.005	< 0.005	111
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.46	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	97.0	97.0	< 0.005	< 0.005	98.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.1	15.1	< 0.005	< 0.005	15.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.51	2.51	< 0.005	< 0.005	2.54
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	8.43	6.67	57.0	0.14	0.10	11.9	12.0	0.10	3.01	3.11	—	14,281	14,281	0.57	0.70	14,544
City Park	0.01	< 0.005	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	10.5	10.5	< 0.005	< 0.005	10.7
Total	8.44	6.68	57.1	0.14	0.10	11.9	12.0	0.10	3.02	3.11	—	14,292	14,292	0.57	0.70	14,554
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	7.50	7.59	50.1	0.13	0.10	11.9	12.0	0.10	3.01	3.11	—	13,103	13,103	0.67	0.75	13,343
City Park	0.01	0.01	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	9.68	9.68	< 0.005	< 0.005	9.85
Total	7.50	7.60	50.2	0.13	0.10	11.9	12.0	0.10	3.02	3.11	—	13,112	13,112	0.67	0.75	13,352
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	1.39	1.31	9.09	0.02	0.02	2.14	2.16	0.02	0.54	0.56	—	2,224	2,224	0.10	0.12	2,265
City Park	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	0.88
Total	1.39	1.31	9.09	0.02	0.02	2.14	2.16	0.02	0.54	0.56	—	2,225	2,225	0.10	0.12	2,266

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	8.43	6.67	57.0	0.14	0.10	11.9	12.0	0.10	3.01	3.11	—	14,281	14,281	0.57	0.70	14,544
City Park	0.01	< 0.005	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	10.5	10.5	< 0.005	< 0.005	10.7
Total	8.44	6.68	57.1	0.14	0.10	11.9	12.0	0.10	3.02	3.11	—	14,292	14,292	0.57	0.70	14,554
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	7.50	7.59	50.1	0.13	0.10	11.9	12.0	0.10	3.01	3.11	—	13,103	13,103	0.67	0.75	13,343
City Park	0.01	0.01	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	9.68	9.68	< 0.005	< 0.005	9.85
Total	7.50	7.60	50.2	0.13	0.10	11.9	12.0	0.10	3.02	3.11	—	13,112	13,112	0.67	0.75	13,352
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	1.39	1.31	9.09	0.02	0.02	2.14	2.16	0.02	0.54	0.56	—	2,224	2,224	0.10	0.12	2,265
City Park	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.86	0.86	< 0.005	< 0.005	0.88
Total	1.39	1.31	9.09	0.02	0.02	2.14	2.16	0.02	0.54	0.56	—	2,225	2,225	0.10	0.12	2,266

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,389	1,389	0.22	0.03	1,403
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,389	1,389	0.22	0.03	1,403
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,389	1,389	0.22	0.03	1,403
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,389	1,389	0.22	0.03	1,403
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	230	230	0.04	< 0.005	232
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	230	230	0.04	< 0.005	232

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,387	1,387	0.22	0.03	1,401

City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,387	1,387	0.22	0.03	1,401
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,387	1,387	0.22	0.03	1,401
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,387	1,387	0.22	0.03	1,401
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	230	230	0.04	< 0.005	232
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	230	230	0.04	< 0.005	232

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	89.6	89.6	0.01	< 0.005	90.5
Consumer Products	11.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.32	0.14	15.1	< 0.005	0.01	—	0.01	0.01	—	0.01	—	40.3	40.3	< 0.005	< 0.005	40.5
Total	13.3	0.14	15.1	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	130	130	0.02	< 0.005	131
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	89.6	89.6	0.01	< 0.005	90.5
Consumer Products	11.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	12.0	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	89.6	89.6	0.01	< 0.005	90.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	3.33	3.33	< 0.005	< 0.005	3.37
Consumer Products	2.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.12	0.01	1.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.29	3.29	< 0.005	< 0.005	3.31
Total	2.31	0.01	1.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	6.63	6.63	< 0.005	< 0.005	6.67

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	89.6	89.6	0.01	< 0.005	90.5
Consumer Products	11.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.32	0.14	15.1	< 0.005	0.01	—	0.01	0.01	—	0.01	—	40.3	40.3	< 0.005	< 0.005	40.5

Total	13.3	0.14	15.1	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	130	130	0.02	< 0.005	131
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	89.6	89.6	0.01	< 0.005	90.5
Consumer Products	11.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	12.0	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	89.6	89.6	0.01	< 0.005	90.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	3.33	3.33	< 0.005	< 0.005	3.37
Consumer Products	2.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.12	0.01	1.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.29	3.29	< 0.005	< 0.005	3.31
Total	2.31	0.01	1.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	6.63	6.63	< 0.005	< 0.005	6.67

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	20.5	94.3	115	2.12	0.05	183
City Park	—	—	—	—	—	—	—	—	—	—	0.00	1.51	1.51	< 0.005	< 0.005	1.52
Total	—	—	—	—	—	—	—	—	—	—	20.5	95.8	116	2.12	0.05	185
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	20.5	94.3	115	2.12	0.05	183
City Park	—	—	—	—	—	—	—	—	—	—	0.00	1.51	1.51	< 0.005	< 0.005	1.52
Total	—	—	—	—	—	—	—	—	—	—	20.5	95.8	116	2.12	0.05	185
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	3.40	15.6	19.0	0.35	0.01	30.4
City Park	—	—	—	—	—	—	—	—	—	—	0.00	0.25	0.25	< 0.005	< 0.005	0.25
Total	—	—	—	—	—	—	—	—	—	—	3.40	15.9	19.3	0.35	0.01	30.6

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	16.5	58.0	74.5	1.70	0.04	129
City Park	—	—	—	—	—	—	—	—	—	—	0.00	-0.36	-0.36	> -0.005	> -0.005	-0.37
Total	—	—	—	—	—	—	—	—	—	—	16.5	57.7	74.1	1.70	0.04	129

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	16.5	58.0	74.5	1.70	0.04	129
City Park	—	—	—	—	—	—	—	—	—	—	0.00	-0.36	-0.36	> -0.005	> -0.005	-0.37
Total	—	—	—	—	—	—	—	—	—	—	16.5	57.7	74.1	1.70	0.04	129
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	2.72	9.61	12.3	0.28	0.01	21.4
City Park	—	—	—	—	—	—	—	—	—	—	0.00	-0.06	-0.06	> -0.005	> -0.005	-0.06
Total	—	—	—	—	—	—	—	—	—	—	2.72	9.55	12.3	0.28	0.01	21.3

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	127	0.00	127	12.7	0.00	445
City Park	—	—	—	—	—	—	—	—	—	—	0.04	0.00	0.04	< 0.005	0.00	0.14
Total	—	—	—	—	—	—	—	—	—	—	127	0.00	127	12.7	0.00	446
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	127	0.00	127	12.7	0.00	445
City Park	—	—	—	—	—	—	—	—	—	—	0.04	0.00	0.04	< 0.005	0.00	0.14
Total	—	—	—	—	—	—	—	—	—	—	127	0.00	127	12.7	0.00	446
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.11	0.00	73.7
City Park	—	—	—	—	—	—	—	—	—	—	0.01	0.00	0.01	< 0.005	0.00	0.02
Total	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.11	0.00	73.8

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	127	0.00	127	12.7	0.00	445
City Park	—	—	—	—	—	—	—	—	—	—	0.04	0.00	0.04	< 0.005	0.00	0.14
Total	—	—	—	—	—	—	—	—	—	—	127	0.00	127	12.7	0.00	446
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	127	0.00	127	12.7	0.00	445
City Park	—	—	—	—	—	—	—	—	—	—	0.04	0.00	0.04	< 0.005	0.00	0.14
Total	—	—	—	—	—	—	—	—	—	—	127	0.00	127	12.7	0.00	446
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.11	0.00	73.7
City Park	—	—	—	—	—	—	—	—	—	—	0.01	0.00	0.01	< 0.005	0.00	0.02
Total	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.11	0.00	73.8

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.71
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.71
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.71
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.71
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.62
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.62

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.71
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.71
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.71
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.71
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.62
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.62

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	12/2/2024	2/10/2025	5.00	50.0	—
Site Preparation	Site Preparation	2/11/2025	3/25/2025	5.00	30.0	—
Grading	Grading	3/26/2025	7/9/2025	5.00	75.0	—
Building Construction	Building Construction	7/10/2025	5/11/2028	5.00	740	—
Paving	Paving	5/12/2028	7/28/2028	5.00	55.0	—
Architectural Coating	Architectural Coating	7/29/2028	10/14/2028	5.00	55.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 2	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 2	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 2	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 2	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 2	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 2	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 2	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 2	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 2	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Tier 2	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 2	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 2	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 2	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 2	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 2	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 2	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 2	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 2	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 2	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 2	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 2	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 2	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Tier 2	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 2	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 2	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 2	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	7.70	LDA,LDT1,LDT2
Demolition	Vendor	—	4.00	HHDT,MHDT
Demolition	Hauling	1.50	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	7.70	LDA,LDT1,LDT2
Site Preparation	Vendor	—	4.00	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	7.70	LDA,LDT1,LDT2
Grading	Vendor	—	4.00	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	95.8	7.70	LDA,LDT1,LDT2
Building Construction	Vendor	28.4	4.00	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	7.70	LDA,LDT1,LDT2
Paving	Vendor	—	4.00	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT

Architectural Coating	—	—	—	—
Architectural Coating	Worker	19.2	7.70	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	4.00	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	7.70	LDA,LDT1,LDT2
Demolition	Vendor	—	4.00	HHDT,MHDT
Demolition	Hauling	1.50	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	7.70	LDA,LDT1,LDT2
Site Preparation	Vendor	—	4.00	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	7.70	LDA,LDT1,LDT2
Grading	Vendor	—	4.00	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	95.8	7.70	LDA,LDT1,LDT2
Building Construction	Vendor	28.4	4.00	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT

Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	7.70	LDA,LDT1,LDT2
Paving	Vendor	—	4.00	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	19.2	7.70	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	4.00	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	1,050,368	350,123	0.00	0.00	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	6,500	—
Site Preparation	—	—	45.0	0.00	—
Grading	—	—	225	0.00	—
Paving	0.00	0.00	0.00	0.00	2.93

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	2.93	0%
City Park	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	2,508	2,508	2,508	915,559	16,810	16,810	16,810	6,135,600
City Park	0.66	1.65	1.84	353	4.42	11.1	12.4	2,380

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	2,508	2,508	2,508	915,559	16,810	16,810	16,810	6,135,600
City Park	0.66	1.65	1.84	353	4.42	11.1	12.4	2,380

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	133
No Fireplaces	133
Conventional Wood Stoves	0
Catalytic Wood Stoves	0

Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	133
No Fireplaces	133
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1050367.5	350,123	0.00	0.00	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	2,486,191	204	0.0330	0.0040	0.00
City Park	0.00	204	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	2,482,041	204	0.0330	0.0040	0.00
City Park	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	10,718,736	52,272,945
City Park	0.00	1,116,187

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	8,588,923	28,925,571
City Park	0.00	-268,502

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	236	—
City Park	0.07	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	236	—
City Park	0.07	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

8. User Changes to Default Data

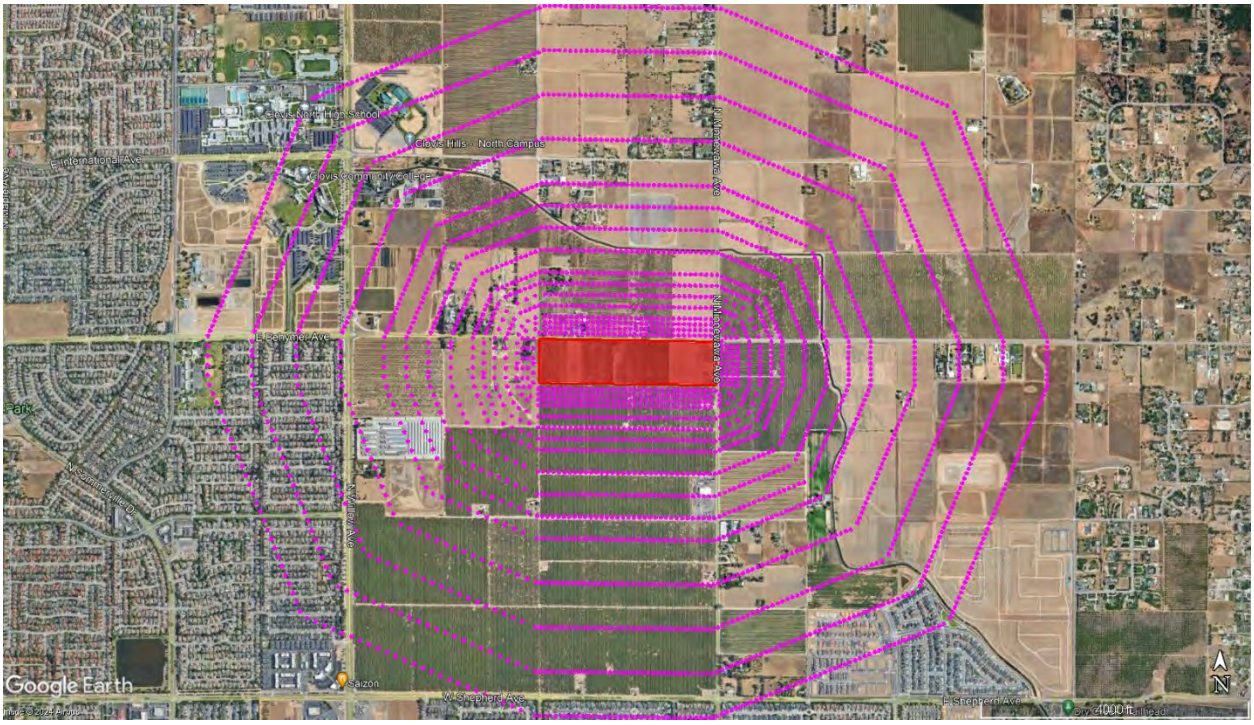
Screen	Justification
Land Use	The approximately 37-acre project site proposes to develop 266 single-family residences with 0.84 acres of park space.
Construction: Off-Road Equipment	Assuming the use of Tier 2 construction equipment.
Operations: Vehicle Data	Based on the project's trip generation, the proposed project would generate approximately 2,508 average daily trips.
Operations: Hearths	The proposed project would be all-electric; therefore, this analysis assumes no gas hearths or wood stoves. The default assumptions included 133 units with a gas hearth and 133 units without a fireplace; therefore, this assumes 133 units with an electric hearth and 133 units without a fireplace.
Operations: Energy Use	The proposed project would be all electric.

APPENDIX B

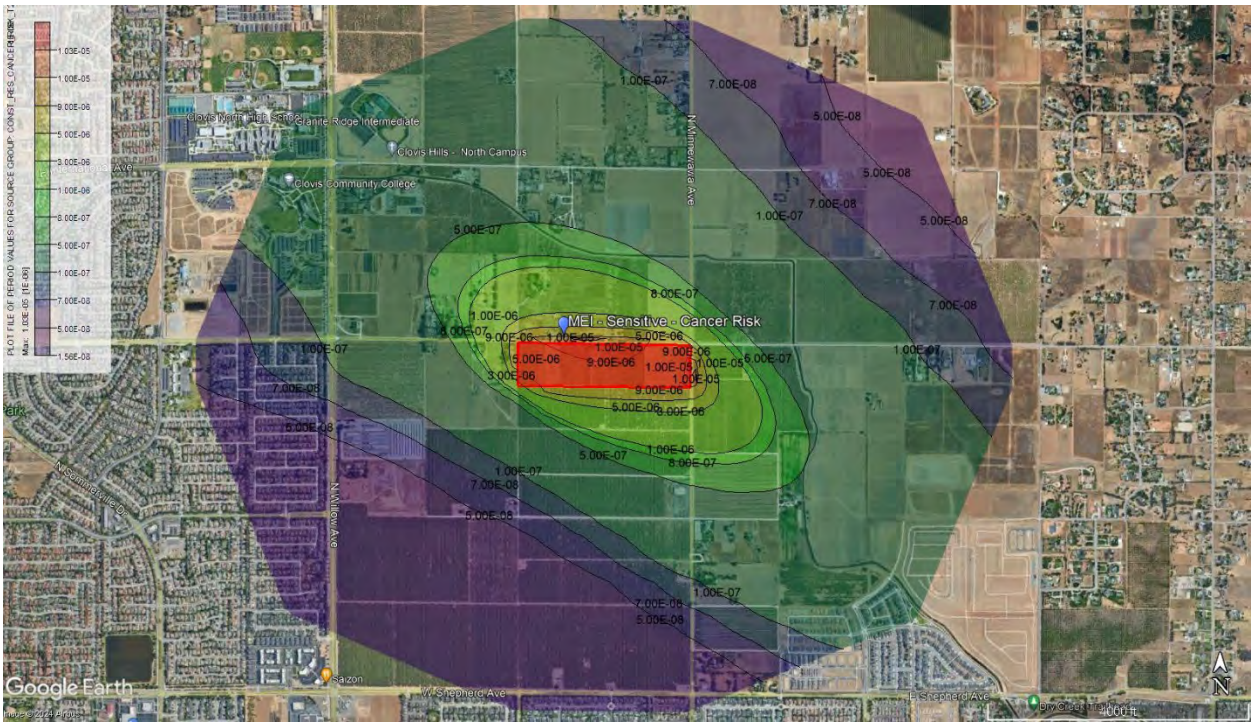
HRA MODEL SNAPSHOTS AND OUTPUT

Project Location

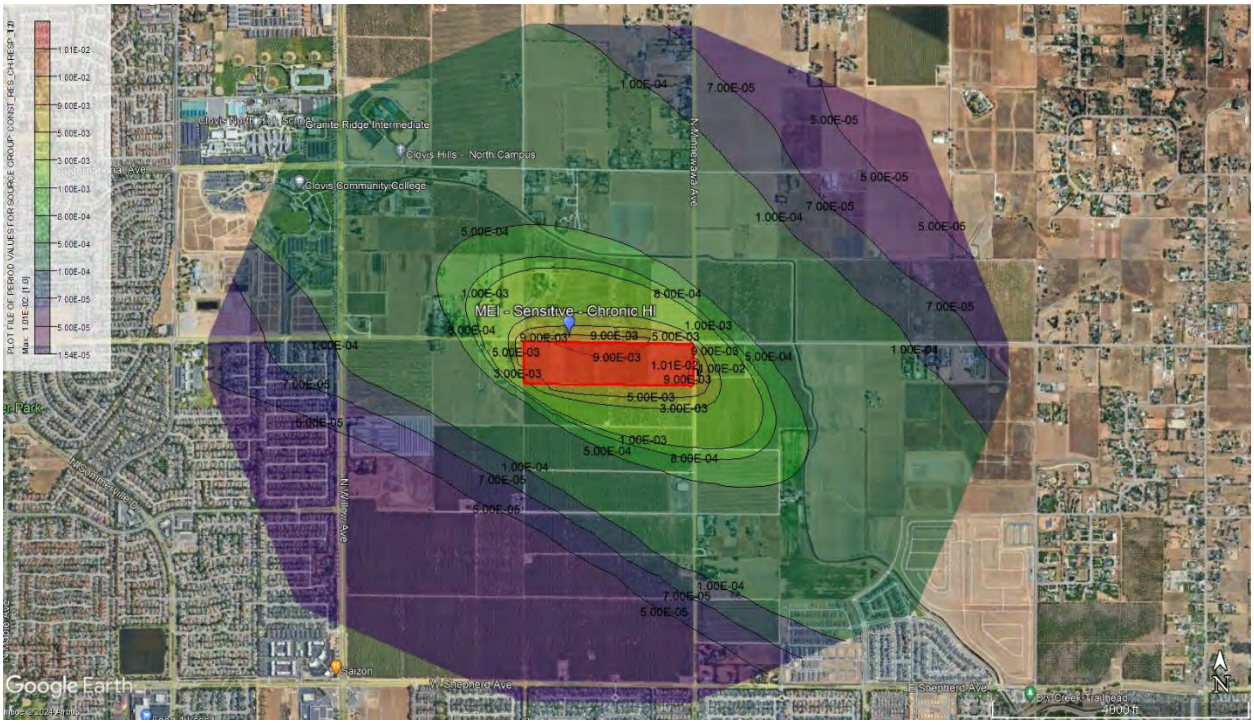
Receptor Grid



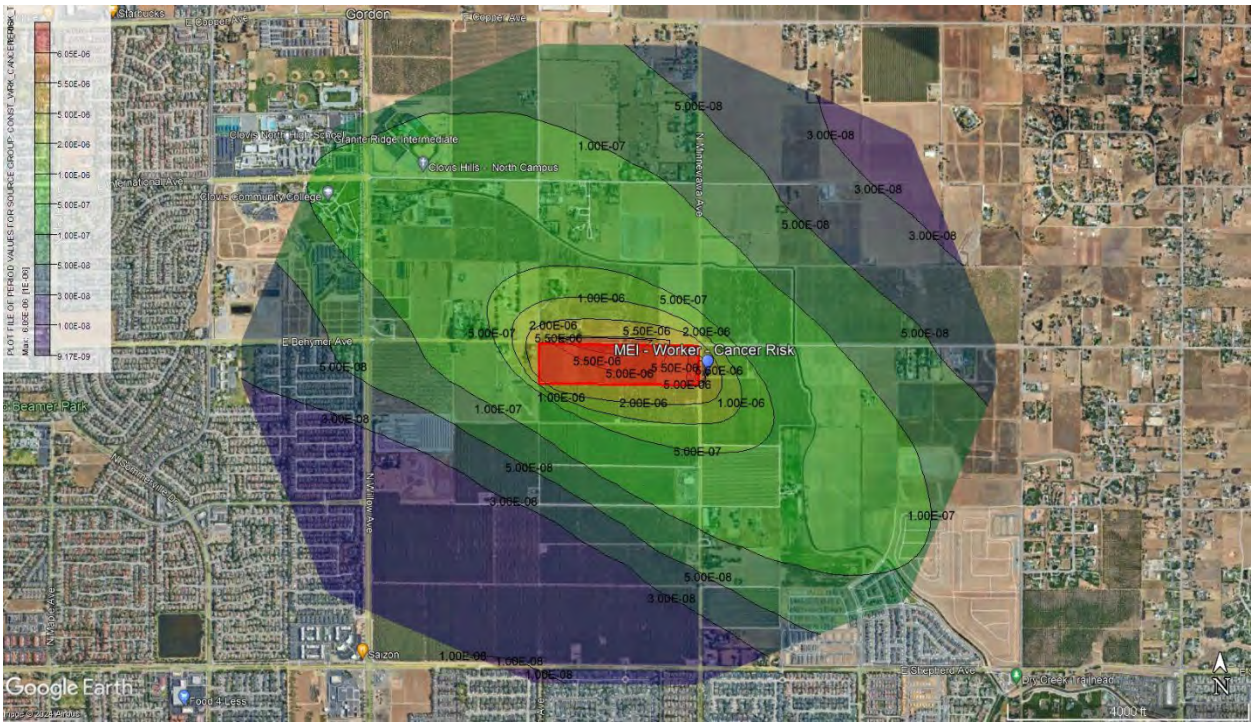
Cancer Risk – Residential Receptor



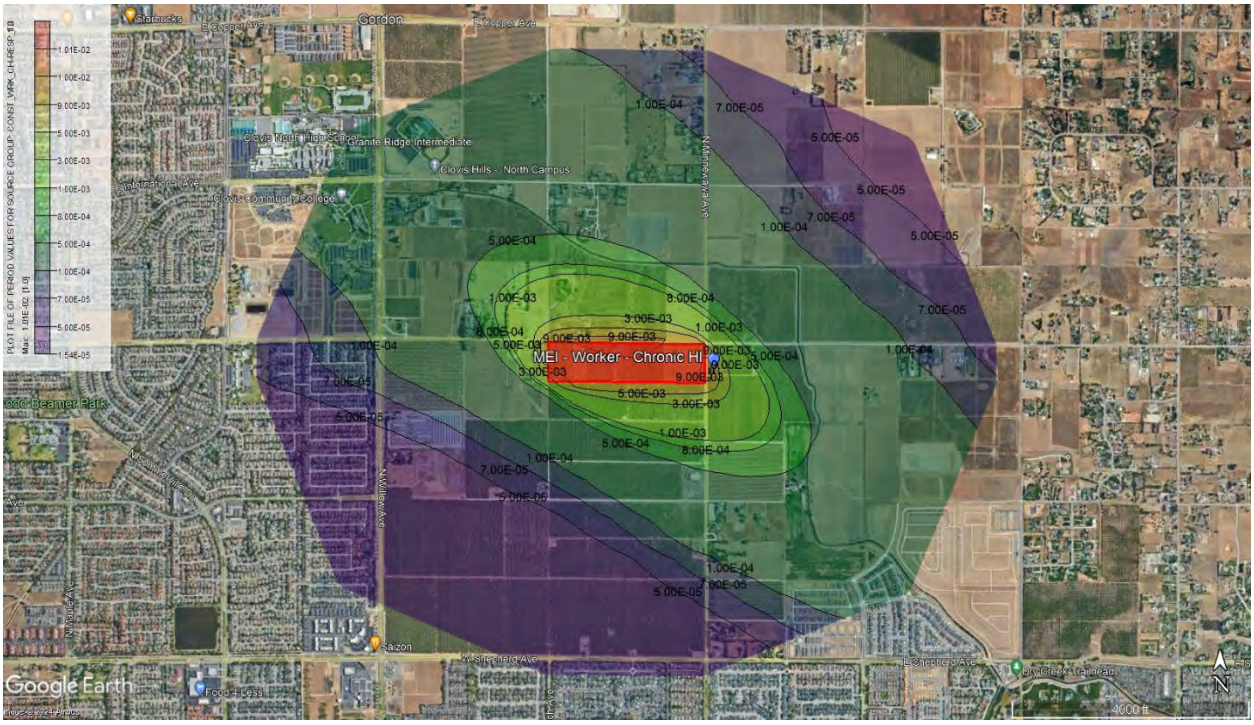
Chronic Hazard Index – Residential Receptor



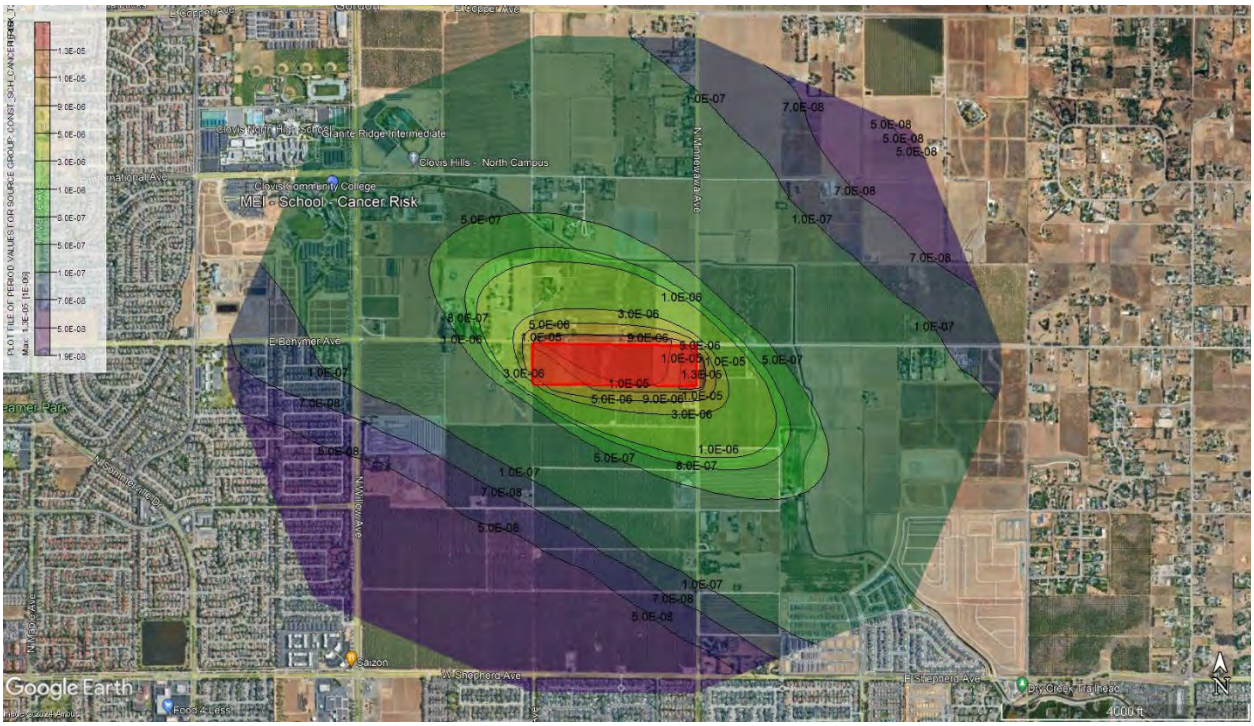
Cancer Risk – Worker Receptor



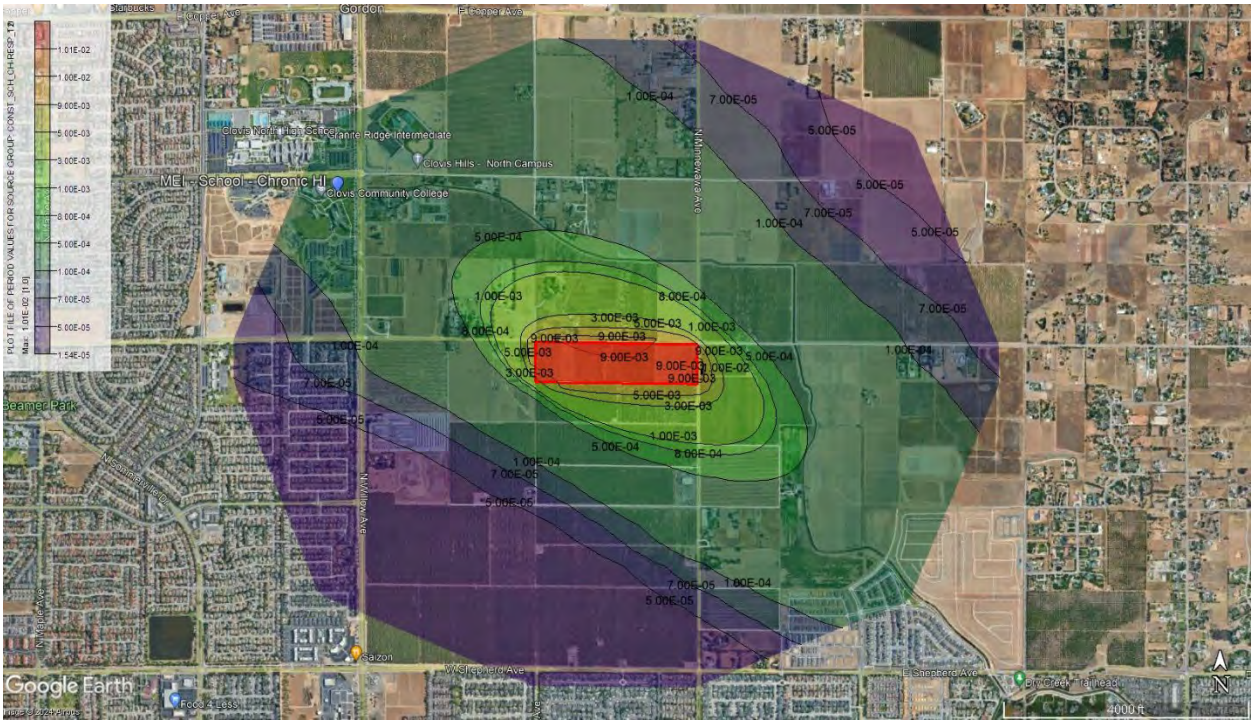
Chronic Hazard Index – Worker Receptor



Cancer Risk – School Receptor



Chronic Hazard Index – School Receptor



Construction MEI (Sensitive) - Cancer Risk (in a Million) HARP Rec #: 2000 X: 257758.52 Y: 4085171.97			
T2	T2L3	T4f	0
9.92	1.52	0.78	0.00
MEI (Sensitive) - Chronic Hazard Index HARP Rec #: 2000 X: 257758.52 Y: 4085171.97			
T2	T2L3	T4f	0
9.78E-03	1.49E-03	8.06E-04	0.00E+00
MEI (Sensitive) - Acute Hazard Index HARP Rec #: NA X: NA Y: NA			
T2	T2L3	T4f	0
0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEI (Sensitive) - PM 2.5 HARP Rec #: 2000 X: 257758.52 Y: 4085171.97			
T2	T2L3	T4f	0
0.049	0.007	0.004	0.000

Construction MEI (Worker) - Cancer Risk (in a Million) HARP Rec #: 7 X: 258385.11 Y: 4084970.84			
T2	T2L3	T4f	0
6.05	0.94	0.41	0.00
MEI (Worker) - Chronic Hazard Index HARP Rec #: 7 X: 258385.11 Y: 4084970.84			
T2	T2L3	T4f	0
1.01E-02	1.54E-03	8.35E-04	0.00E+00
MEI (Worker) - Acute Hazard Index HARP Rec #: NA X: NA Y: NA			
T2	T2L3	T4f	0
0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEI (Worker) - PM 2.5 HARP Rec #: 7 X: 258385.11 Y: 4084970.84			
T2	T2L3	T4f	0
0.051	0.008	0.004	0.000

Construction MEI (School) - Cancer Risk (in a Million) HARP Rec #: 2823 X: 256582.52 Y: 4085895.32			
T2	T2L3	T4f	0
0.24	0.04	0.02	0.00
MEI (School) - Chronic Hazard Index HARP Rec #: 2823 X: 256582.52 Y: 4085895.32			
T2	T2L3	T4f	0
1.95E-04	2.97E-05	1.61E-05	0.00E+00
MEI (School) - Acute Hazard Index HARP Rec #: NA X: NA Y: NA			
T2	T2L3	T4f	0
0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEI (School) - PM 2.5 HARP Rec #: 2823 X: 256582.52 Y: 4085895.32			
T2	T2L3	T4f	0
0.0010	0.0001	0.0001	0.0000

	Zone	**11**	Process Coordinates									
	Datum	**WGS 1984**										
	KML File Name	**20241700 Project MEI**										
											Sensitive	
Description	**Receptor Type**	**Model Type**	**UTM X**	**UTM Y**	**Latitude**	**Longitude**			Unmitigated	T2	T2L3	T4	**Row**
Construction	Sensitive	Cancer Risk	257758.52	4085171.97	36.88145626	-119.7180447		**Col**	2	3	4	5	4
Construction	Sensitive	Chronic HI	257758.52	4085171.97	36.88145626	-119.7180447			2	3	4	5	7
Construction	Sensitive	Acute HI	0	0					2	3	4	5	10
Construction	Sensitive	PM 2.5	257758.52	4085171.97	36.88145626	-119.7180447			2	3	4	5	13
Construction	School	Cancer Risk	256582.52	4085895.32	36.8876671	-119.7314585			12	13	14	15	4
Construction	School	Chronic HI	256582.52	4085895.32	36.8876671	-119.7314585			12	13	14	15	7
Construction	School	Acute HI	0	0					12	13	14	15	10
Construction	School	PM 2.5	256582.52	4085895.32	36.8876671	-119.7314585			12	13	14	15	13
Construction	Worker	Cancer Risk	258385.11	4084970.84	36.87980574	-119.7109572			7	8	9	10	4
Construction	Worker	Chronic HI	258385.11	4084970.84	36.87980574	-119.7109572			7	8	9	10	7
Construction	Worker	Acute HI	0	0					7	8	9	10	10
Construction	Worker	PM 2.5	258385.11	4084970.84	36.87980574	-119.7109572			7	8	9	10	13

General AERMOD Input Parameters			
Project Boundary			
	Based on site plan		
Project Elevation Data			
	Source	**Lakes Environmental**	
	Link	http://www.webgis.com/terraindata.html	
	Evel Data Descr.	**7.5 min DEM**	
Project Receptor Grid			
	Telescoping Grid	Spacing (m)	Distance (m)
	Grid 1	**25**	**100**
	Grid 2	**50**	**200**
	Grid 3	**100**	**400**
	Grid 4	**200**	**800**
	Comments	**Receptors on roads or paring lot areas have been removed.**	
Meteorological Dataset			
	Location	**Fresno**	
	Provided By	**San Joaquin Valley APCD**	
	Years	**2018-2022**	
	Elevation (m)	**100**	
	Link		
Construction Modeling Specific Inputs			
AERMOD Input Options			
	Regulatory Options	**Default**	
	Pollutant Type	**Other**	
	Averaging Period	**Period & Hourly**	
	Dispersion Coefficient	**Rural**	
	County	**Fresno**	
	Urban Grouping / Pop	**N**	**0**
	# of Worker Receptors	**3,016**	
	# of Sensitive Receptors		
	# of School Receptors		
Construction Area Parameters			
	Source Type	**Polygon Area**	
	Project Area (m^2)	**145482.6**	
	Ht. of Source (m)	**3.048**	

General HARP Input Parameters		
Construction		
School Receptors		
School Scenario Parameters		
	Class Grade	**Daycare - 12**
	Starting Age	**3rd trimester**
	Age Range	**3rd trimester - 5 Year**
	Receptor Type	**Individual Resident**
	Assessment Type	**Cancer / Chronic / Acute**
	Exposure Duration	**1**
	Intake Rate	**RMP using the Derived Method**

	Comments	**Each year of construction is modeled separately and the impact to each receptor is summed to estimate the total exposure from construction emissions. Additionally, the starting age is increased for each year of construction.**
School Pathway Parameters		
	Pathways	**Mandatory minimum Pathways**
	Deposition Rate	**0.02**
	TAH < 16 yrs.	**N**
	TAH ≥ 16 yrs.	**N**
Sensitive Receptors		
Sensitive Scenario Parameters		
	Starting Age	**3rd Trimester**
	Age Range	**3rd Trimester - 5 Year**
	Receptor Type	**Individual Resident**
	Assessment Type	**Cancer / Chronic / Acute**
	Exposure Duration	**1**
	Intake Rate	**RMP using the Derived Method**
	Comments	**Each year of construction is modeled separately and the impact to each receptor is summed to estimate the total exposure from construction emissions. Additionally, the starting age is increased for each year of construction.**
Sensitive Pathway Parameters		
	Pathways	**Mandatory minimum Pathways**
	Deposition Rate	**0.02**
	TAH < 16 yrs.	**Y**
	TAH ≥ 16 yrs.	**Y**
Worker Receptors		
Worker Scenario Parameters		
	Starting Age	**16**
	Age Range	**16 - 20**
	Receptor Type	**Worker**
	Assessment Type	**Cancer / Chronic / Acute**
	Exposure Duration	**1**
	Intake Rate	**OEHHA Derived Method**
	Comments	**Each year of construction is modeled separately and the impact to each receptor is summed to estimate the total exposure from construction emissions. Additionally, the starting age is increased for each year of construction.**
Worker Pathway Parameters		
	Pathways	**OEHHA minimum Pathways**
	Deposition Rate	**0.02**
	TAH < 16 yrs.	**N**
	TAH ≥ 16 yrs.	**N**

For Running Each Base Year

PM 10				
Tons/Yr	T2	T2L3	T4f	
Year 1	0.00848	0.001287	0.000699	0
Year 2	0.12265	0.018685	0.01011	0
Year 3	0.0904	0.014115	0.00628	0
Year 4	0.0904	0.014115	0.00628	0
Year 5	0.0504	0.00776	0.003109	0

PM 2.5				
Tons/Yr	T4i	T4f		
Year 1	2.99E-02	2.02E-02	0	0
Year 2	2.60E-02	2.03E-02	0	0
Year 3	2.14E-02	1.61E-02	0	0
Year 4	2.14E-02	1.62E-02	0	0
Year 5	1.66E-02	1.14E-02	0	0

PM 10				
Lbs /Yr	T2	T2L3	T4f	0
Year 1	16.96	2.574	1.398	0
Year 2	245.3	37.37	20.22	0
Year 3	180.8	28.23	12.56	0
Year 4	180.8	28.23	12.56	0
Year 5	100.8	15.52	6.217	0

PM 2.5				
Lbs /Yr	T4i	T4f	0	0
Year 1	59.71	40.45	0	0
Year 2	51.98	40.51	0	0
Year 3	42.72	32.25	0	0
Year 4	42.84	32.34	0	0
Year 5	33.17	22.7	0	0

PM 10				
% Chng	T2	T2L3	T4f	0
Year 1	100%	15.2%	8.2%	0%
Year 2	100%	15.2%	8.2%	0%
Year 3	100%	15.6%	6.9%	0%
Year 4	100%	15.6%	6.9%	0%
Year 5	100%	15.4%	6.2%	0%

PM 2.5				
g/sec	T4i	T4f	0	0
Year 1	0.000859	0.000582	0	0
Year 2	0.000748	0.000583	0	0
Year 3	0.000614	0.000464	0	0
Year 4	0.000616	0.000465	0	0
Year 5	0.000477	0.000327	0	0

\	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11
T2	100.00%	100.00%	100.00%	100.00%	55.75%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
T2L3	15.2%	15.2%	15.6%	15.6%	8.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
T4f	8.2%	8.2%	6.9%	6.9%	3.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

			UnMitigated					2004	T2L3						T4					
								9.92E-06						1.52E-06						7.80E-07
								4085171.97												
			Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Total	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Total	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Total
1	258389.45	4085119.38	1.81E-07	2.41E-06	3.57E-07	3.57E-07	1.99E-07	3.51E-06	2.74E-08	3.67E-07	5.57E-08	5.57E-08	3.06E-08	5.37E-07	1.49E-08	1.99E-07	2.48E-08	2.48E-08	1.23E-08	2.76E-07
2	258388.73	4085094.62	2.88E-07	3.84E-06	5.69E-07	5.69E-07	3.17E-07	5.59E-06	4.37E-08	5.86E-07	8.88E-08	8.88E-08	4.88E-08	8.56E-07	2.37E-08	3.17E-07	3.95E-08	3.95E-08	1.96E-08	4.39E-07
3	258388	4085069.87	3.99E-07	5.33E-06	7.88E-07	7.88E-07	4.40E-07	7.74E-06	6.05E-08	8.12E-07	1.23E-07	1.23E-07	6.77E-08	1.19E-06	3.29E-08	4.39E-07	5.48E-08	5.48E-08	2.71E-08	6.09E-07
4	258387.28	4085045.11	4.69E-07	6.27E-06	9.27E-07	9.27E-07	5.17E-07	9.11E-06	7.12E-08	9.55E-07	1.45E-07	1.45E-07	7.96E-08	1.40E-06	3.87E-08	5.17E-07	6.44E-08	6.44E-08	3.19E-08	7.16E-07
5	258386.56	4085020.36	5.10E-07	6.81E-06	1.01E-06	1.01E-06	5.62E-07	9.89E-06	7.74E-08	1.04E-06	1.57E-07	1.57E-07	8.65E-08	1.52E-06	4.20E-08	5.61E-07	7.00E-08	7.00E-08	3.46E-08	7.78E-07
6	258385.84	4084995.6	5.29E-07	7.07E-06	1.05E-06	1.05E-06	5.83E-07	1.03E-05	8.03E-08	1.08E-06	1.63E-07	1.63E-07	8.98E-08	1.57E-06	4.36E-08	5.83E-07	7.26E-08	7.26E-08	3.60E-08	8.07E-07
7	258385.11	4084970.84	5.29E-07	7.07E-06	1.05E-06	1.05E-06	5.83E-07	1.03E-05	8.03E-08	1.08E-06	1.63E-07	1.63E-07	8.98E-08	1.57E-06	4.36E-08	5.83E-07	7.27E-08	7.27E-08	3.60E-08	8.08E-07
8	258384.39	4084946.09	5.07E-07	6.78E-06	1.00E-06	1.00E-06	5.59E-07	9.85E-06	7.70E-08	1.03E-06	1.57E-07	1.57E-07	8.61E-08	1.51E-06	4.18E-08	5.59E-07	6.97E-08	6.97E-08	3.45E-08	7.74E-07
9	258383.67	4084921.33	4.38E-07	5.85E-06	8.65E-07	8.65E-07	4.82E-07	8.49E-06	6.64E-08	8.90E-07	1.35E-07	1.35E-07	7.42E-08	1.30E-06	3.61E-08	4.82E-07	6.01E-08	6.01E-08	2.97E-08	6.68E-07
10	258407.76	4085136.4	1.11E-07	1.48E-06	2.20E-07	2.20E-07	1.22E-07	2.16E-06	1.69E-08	2.26E-07	3.43E-08	3.43E-08	1.89E-08	3.30E-07	9.16E-09	1.22E-07	1.53E-08	1.53E-08	7.55E-09	1.70E-07
11	258383.88	4085162.1	1.07E-07	1.43E-06	2.12E-07	2.12E-07	1.18E-07	2.08E-06	1.63E-08	2.18E-07	3.31E-08	3.31E-08	1.82E-08	3.19E-07	8.84E-09	1.18E-07	1.47E-08	1.47E-08	7.29E-09	1.64E-07
12	258413.72	4085093.9	1.77E-07	2.37E-06	3.50E-07	3.50E-07	1.95E-07	3.44E-06	2.69E-08	3.61E-07	5.47E-08	5.47E-08	3.01E-08	5.27E-07	1.46E-08	1.95E-07	2.43E-08	2.43E-08	1.20E-08	2.70E-07
13	258412.99	4085069.14	2.38E-07	3.18E-06	4.70E-07	4.70E-07	2.62E-07	4.62E-06	3.61E-08	4.84E-07	7.34E-08	7.34E-08	4.04E-08	7.07E-07	1.96E-08	2.62E-07	3.27E-08	3.27E-08	1.62E-08	3.63E-07
14	258412.27	4085044.38	2.90E-07	3.87E-06	5.73E-07	5.73E-07	3.19E-07	5.62E-06	4.40E-08	5.90E-07	8.94E-08	8.94E-08	4.91E-08	8.61E-07	2.39E-08	3.19E-07	3.98E-08	3.98E-08	1.97E-08	4.42E-07
15	258411.55	4085019.63	3.26E-07	4.36E-06	6.45E-07	6.45E-07	3.60E-07	6.34E-06	4.95E-08	6.64E-07	1.01E-07	1.01E-07	5.54E-08	9.70E-07	2.69E-08	3.59E-07	4.48E-08	4.48E-08	2.22E-08	4.98E-07
16	258410.83	4084994.87	3.49E-07	4.66E-06	6.89E-07	6.89E-07	3.84E-07	6.77E-06	5.29E-08	7.09E-07	1.08E-07	1.08E-07	5.91E-08	1.04E-06	2.87E-08	3.84E-07	4.78E-08	4.78E-08	2.37E-08	5.32E-07
17	258410.1	4084970.11	3.57E-07	4.77E-06	7.05E-07	7.05E-07	3.93E-07	6.93E-06	5.42E-08	7.26E-07	1.10E-07	1.10E-07	6.06E-08	1.06E-06	2.94E-08	3.93E-07	4.90E-08	4.90E-08	2.43E-08	5.45E-07
18	258409.38	4084945.36	3.50E-07	4.67E-06	6.91E-07	6.91E-07	3.85E-07	6.79E-06	5.31E-08	7.12E-07	1.08E-07	1.08E-07	5.94E-08	1.04E-06	2.88E-08	3.85E-07	4.80E-08	4.80E-08	2.38E-08	5.34E-07
19	258408.66	4084920.6	3.25E-07	4.34E-06	6.42E-07	6.42E-07	3.58E-07	6.30E-06	4.93E-08	6.61E-07	1.00E-07	1.00E-07	5.51E-08	9.65E-07	2.68E-08	3.57E-07	4.46E-08	4.46E-08	2.21E-08	4.95E-07
20	258432.75	4085135.67	8.75E-08	1.17E-06	1.73E-07	1.73E-07	9.64E-08	1.70E-06	1.33E-08	1.78E-07	2.70E-08	2.70E-08	1.48E-08	2.60E-07	7.21E-09	9.63E-08	1.20E-08	1.20E-08	5.95E-09	1.34E-07
21	258402.2	4085179.12	7.71E-08	1.03E-06	1.52E-07	1.52E-07	8.50E-08	1.50E-06	1.17E-08	1.57E-07	2.38E-08	2.38E-08	1.31E-08	2.29E-07	6.36E-09	8.49E-08	1.06E-08	1.06E-08	5.24E-09	1.18E-07
22	258438.71	4085093.17	1.26E-07	1.68E-06	2.48E-07	2.48E-07	1.38E-07	2.44E-06	1.91E-08	2.56E-07	3.88E-08	3.88E-08	2.13E-08	3.74E-07	1.04E-08	1.38E-07	1.72E-08	1.72E-08	8.54E-09	1.92E-07
23	258437.98	4085068.41	1.61E-07	2.16E-06	3.19E-07	3.19E-07	1.78E-07	3.13E-06	2.45E-08	3.28E-07	4.98E-08	4.98E-08	2.74E-08	4.80E-07	1.33E-08	1.78E-07	2.22E-08	2.22E-08	1.10E-08	2.46E-07
24	258437.26	4085043.65	1.97E-07	2.63E-06	3.89E-07	3.89E-07	2.17E-07	3.82E-06	2.99E-08	4.01E-07	6.08E-08	6.08E-08	3.34E-08	5.86E-07	1.62E-08	2.17E-07	2.70E-08	2.70E-08	1.34E-08	3.01E-07
25	258436.54	4085018.9	2.27E-07	3.03E-06	4.48E-07	4.48E-07	2.50E-07	4.40E-06	3.44E-08	4.61E-07	6.99E-08	6.99E-08	3.84E-08	6.74E-07	1.87E-08	2.50E-07	3.11E-08	3.11E-08	1.54E-08	3.46E-07
26	258435.82	4084994.14	2.48E-07	3.31E-06	4.89E-07	4.89E-07	2.73E-07	4.81E-06	3.76E-08	5.04E-07	7.64E-08	7.64E-08	4.20E-08	7.36E-07	2.04E-08	2.73E-07	3.40E-08	3.40E-08	1.68E-08	3.78E-07
27	258435.09	4084969.38	2.59E-07	3.46E-06	5.12E-07	5.12E-07	2.86E-07	5.03E-06	3.94E-08	5.28E-07	8.00E-08	8.00E-08	4.40E-08	7.71E-07	2.14E-08	2.85E-07	3.56E-08	3.56E-08	1.76E-08	3.96E-07
28	258434.37	4084944.63	2.61E-07	3.48E-06	5.15E-07	5.15E-07	2.87E-07	5.06E-06	3.96E-08	5.30E-07	8.04E-08	8.04E-08	4.42E-08	7.75E-07	2.15E-08	2.87E-07	3.58E-08	3.58E-08	1.77E-08	3.98E-07
29	258433.65	4084919.87	2.52E-07	3.36E-06	4.98E-07	4.98E-07	2.78E-07	4.89E-06	3.82E-08	5.13E-07	7.77E-08	7.77E-08	4.27E-08	7.49E-07	2.08E-08	2.77E-07	3.46E-08	3.46E-08	1.71E-08	3.84E-07
30	258457.74	4085134.94	7.14E-08	9.54E-07	1.41E-07	1.41E-07	7.87E-08	1.39E-06	1.08E-08	1.45E-07	2.20E-08	2.20E-08	1.21E-08	2.12E-07	5.89E-09	7.86E-08	9.80E-09	9.80E-09	4.85E-09	1.09E-07
31	258444.39	4085170.43	6.04E-08	8.07E-07	1.19E-07	1.19E-07	6.65E-08	1.17E-06	9.17E-09	1.23E-07	1.86E-08	1.86E-08	1.02E-08	1.80E-07	4.98E-09	6.65E-08	8.29E-09	8.29E-09	4.10E-09	9.22E-08
32	258420.51	4085196.14	5.93E-08	7.92E-07	1.17E-07	1.17E-07	6.53E-08	1.15E-06	8.99E-09	1.21E-07	1.83E-08	1.83E-08	1.01E-08	1.76E-07	4.88E-09	6.52E-08	8.14E-09	8.14E-09	4.03E-09	9.04E-08
33	258386.09	4085212.05	6.66E-08	8.89E-07	1.32E-07	1.32E-07	7.33E-08	1.29E-06	1.01E-08	1.35E-07	2.05E-08	2.05E-08	1.13E-08	1.98E-07	5.49E-09	7.33E-08	9.14E-09	9.14E-09	4.52E-09	1.02E-07
34	258463.69	4085092.44	9.63E-08	1.29E-06	1.90E-07	1.90E-07	1.06E-07	1.87E-06	1.46E-08	1.96E-07	2.97E-08	2.97E-08	1.63E-08	2.86E-07	7.94E-09	1.06E-07	1.32E-08	1.32E-08	6.54E-09	1.47E-07
35	258462.97	4085067.68	1.19E-07	1.59E-06	2.35E-07	2.35E-07	1.31E-07	2.31E-06	1.81E-08	2.42E-07	3.68E-08	3.68E-08	2.02E-08	3.54E-07	9.82E-09	1.31E-07	1.64E-08	1.64E-08	8.10E-09	1.82E-07
36	258462.25	4085042.92	1.44E-07	1.92E-06	2.84E-07	2.84E-07	1.58E-07	2.79E-06	2.18E-08	2.92E-07	4.43E-08	4.43E-08	2.44E-08	4.27E-07	1.18E-08	1.58E-07	1.97E-08	1.97E-08	9.76E-09	2.19E-07
37	258461.53	4085018.17	1.66E-07	2.22E-06	3.29E-07	3.29E-07	1.83E-07	3.23E-06	2.53E-08	3.39E-07	5.13E-08	5.13E-08	2.82E-08	4.95E-07	1.37E-08	1.83E-07	2.28E-08	2.28E-08	1.13E-08	2.54E-07
38	258460.8	4084993.41	1.85E-07	2.47E-06	3.65E-07	3.65E-07	2.03E-07	3.58E-06	2.80E-08	3.76E-07	5.70E-08	5.70E-08	3.13E-08	5.49E-07	1.52E-08	2.03E-07	2.53E-08	2.53E-08	1.25E-08	2.82E-07
39	258460.08	4084968.66	1.97E-07	2.63E-06	3.89E-07	3.89E-07	2.17E-07	3.82E-06	2.99E-08	4.00E-07	6.07E-08	6.07E-08	3.34E-08	5.85E-07	1.62E-08	2.17E-07	2.70E-08	2.70E-08	1.34E-08	3.00E-07
40	258459.36	4084943.9	2.02E-07	2.70E-06	3.99E-07	3.99E-07	2.23E-07	3.92E-06	3.07E-08	4.11E-07	6.23E-08	6.23E-08	3.43E-08	6.01E-07	1.67E-08	2.22E-07	2.77E-08	2.77E-08	1.37E-08	3.08E-07
41	258458.64	4084919.14	2.00E-07	2.67E-06	3.94E-07	3.94E-07	2.20E-07	3.87E-06	3.03E-08	4.06E-07	6.16E-08	6.16E-08	3.39E-08	5.93E-07	1.64E-08	2.20E-07	2.74E-08	2.74E-08	1.36E-08	3.05E-07
42	258506.39	4085137.03	5.06E-08	6.75E-07	9.99E-08	9.99E-08	5.57E-08	9.81E-07	7.67E-09	1.03E-07	1.56E-08	1.56E-08	8.58E-09	1.50E-07	4.17E-09	5.57E-08	6.94E-09	6.94E-09	3.44E-09	7.71E-08
43	258498.38	4085158.32	4.67E-08	6.24E-07	9.23E-08	9.23E-08	5.15E-08	9.07E-07	7.09E-09	9.50E-08	1.44E-08	1.44E-08	7.92E-09	1.39E-07	3.85E-09	5.14E-08	6.41E-09	6.41E-09	3.17E-09	7.13E-08
44	258490.37	4085179.62	4.32E-08	5.77E-07	8.53E-08	8.53E-08	4.76E-08	8.38E-07	6.55E-09	8.79E-08	1.33E-08	1.33E-08	7.32E-09	1.28E-07	3.56E-09	4.75E-08	5.93E-09	5.93E-09	2.93E-09	6.59E-08
45	258482.36	4085200.92	4.00E-08	5.35E-07	7.91E-08	7.91E-08	4.41E-08	7.77E-07	6.08E-09	8.15E-08	1.24E-08	1.24E-08	6.79E-09	1.19E-07	3.30E-09	4.41E-08	5.50E-09	5.50E-09	2.72E-09	6.11E-08
46	258453.7	4085231.76	3.94E-08	5.27E-07	7.80E-08	7.80E-08	4.35E-08	7.66E-07	5.99E-09	8.03E-08	1.22E-08	1.22E-08	6.69E-09	1.17E-07	3.25E-09	4.34E-08	5.42E-09	5.42E-09	2.68E-09	6.02E-08
47	258433.05	4085241.31	4.17E-08	5.58E-07	8.25E-08	8.25E-08	4.60E-08	8.10E-07	6.34E-09	8.50E-08	1.29E-08	1.29E-08	7.08E-09	1.24E-07	3.44E-09	4.60E-08	5.73E-09	5.73E-09	2.84E-09	6.37E-08
48	258412.4	4085250.86	4.41E-08	5.89E-07	8.71E-08	8.71E-08	4.86E-08	8.56E-07	6.69E-09	8.97E-08	1.36E-08	1.36E-08	7.48E-09	1.31E-07	3.64E-09	4.86E-08	6.05E-09	6.05E-09	3.00E-09	6.73E-08
49	258391.75	4085260.41	4.65E-08	6.21E-07	9.18E-08	9.18E-08	5.12E-08	9.02E-07	7.05E-09	9.46E-08	1.43E-08	1.43E-08	7.88E-09	1.38E-07	3.83E-09	5.12E-08	6.38E-09	6.38E-09	3.16E-09	7.09E-08
50	258514.4	4085115.73	5.46E-08	7.30E-07	1.08E-07	1.08E-07	6.02E-08	1.06E-06	8.29E-09	1.11E-07	1.69E-08	1.69E-08	9.27E-09	1.62E-07	4.50E-09	6.02E-08	7.50E-09	7.50E-09	3.71E-09	8.34E-08
51	258513.67	4085090.98	6.40E-08	8.55E-07	1.26E-07	1.26E-07	7.05E-08	1.24E-06	9.71E-09	1.30E-07	1.97E-08	1.97E-08	1.09E-08	1.90E-07	5.27E-09	7.04E-08	8.78E-09	8.78E-09	4.35E-09	9.76E-08
52	258512.95	4085066.22	7.52E-08	1.00E-06	1.49E-07	1.49E-07	8.28E-08	1.46E-06	1.14E-08	1.53E-07	2.32E-08	2.32E-08	1.28E-08	2.24E-07	6.20E-09	8.28E-08	1.03E-08	1.03E-08	5.11E-09	1.15E-07
53	258512.23	4085041.47	8.78E-08	1.17E-06	1.73E-07	1.73E-07	9.67E-08	1.70E-06	1.33E-08	1.79E-07	2.71E-08	2.71E-08	1.49E-08	2.61E-07	7.23E-09	9.66E-08	1.20E-08	1.20E-08	5.96E-09	1.34E-07
54	258511.51	4085016.71	1.01E-07	1.35E-06	1.99E-07	1.99E-07	1.11E-07	1.96E-06	1.53E-08	2.05E-07	3.11E-08	3.11E-08	1.71E-08	3.00E-07	8.30E-09	1.11E-07	1.38E-08	1.38E-08	6.85E-09	1.54E-07
55	258510.78	4084991.95	1.13E-07	1.51E-06	2.23E-07	2.23E-07	1.24E-07	2.19E-06	1.71E-08	2.30E-07	3.48E-08	3.48E-08	1.91E-08	3.36E-07	9.30E-09	1.24E-07	1.55E-08	1.55E-08	7.67E-09	1.72E-07
56	258510.06	4084967.2	1.23E-07	1.64E-06	2.43E-07	2.43E-07	1.35E-07	2.39E-06	1.87E-08	2.50E-07	3.79E-08	3.79E-08	2.09E-08	3.65E-07	1.01E-08	1.35E-07	1.69E-08	1.69E-08	8.35E-09	1.88E-07
57	258509.34	4084942.44	1.30E-07	1.74E-06	2.57E-07	2.57E-07	1.43E-07	2.52E-06	1.97E-08	2.65E-07	4.01E-08	4.01E-08	2.21E-08	3.87E-07	1.07E-08	1.43E-07	1.79E-08	1.79E-08	8.84E-09	1.98E-07
58	258508.62	4084917.68	1.34E-07	1.79E-06	2.64E-07	2.64E-07	1.47E-07	2.59E-06	2.03E-08	2.72E-07	4.12E-08	4.12E-08	2.27E-08	3.97E-07	1.10E-08	1.47E-07	1.84E-08	1.84E-08	9.08E-09	2.04E-07
59	258556.75	4085134.56	3.87E-08	5.17E-07	7.65E-08	7.65E-08	4.27E-08	7.52E-07	5.88E-09	7.88E-08	1.20E-08	1.20E-08	6.57E-09	1.15E-07	3.19E-09	4.26E-08	5.32E-09	5.32E-09	2.63E-09	5.91E-08
60	258541.49	4085175.12	3.43E-08	4.58E-07	6.77E-08	6.77E-08	3.78E-08	6.65E-07	5.20E-09	6.98E-08	1.06E-08	1.06E-08	5.82E-09	1.02E-07	2.83E-09	3.77E-08	4.71E-09	4.71E-09	2.33E-09	5.23E-08
61	258526.23	4085215.68	3.03E-08	4.05E-07	5.99E-08	5.99E-08	3.34E-08	5.89E-07	4.60E-09	6.17E-08	9.36E-09	9.36E-09	5.14E-09	9.02E-08	2.50E-09	3.34E-08	4.16E-09	4.16E-09	2.06E-09	4.63E-08
62	258491.31	4085265.34	2.83E-08	3.78E-07	5.59E-08	5.59E-08	3.12E-08	5.49E-07	4.29E-09	5.75E-08	8.73E-09	8.73E-09	4.80E-09	8.41E-08	2.33E-09	3.11E-08	3.88E-09	3.88E-09	1.92E-09	4.32E-08
63	258451.98	4085283.53	3.10E-08	4.14E-07	6.12E-08	6.12E-08	3.41E-08	6.01E-07	4.70E-09	6.30E-08	9.56E-09	9.56E-09	5.26E-09	9.21E-08	2.55E-09	3.41E-08	4.25E-09	4.25E-09	2.11E-09	4.73E-08
64	258412.64	4085301.72	3.37E-08	4.51E-07	6.67E-08	6.67E-08	3.72E-08	6.55E-07	5.12E-09	6.86E-08	1.04E-08	1.04E-08	5.72E-09	1.00E-07	2.78E-09	3.71E-08	4.63E-09	4.63E-09	2.29E-09	5.15E-08
65	258563.65	4085089.52	4.66E-08	6.22E-07	9.20E-08	9.20E-08	5.13E-08	9.04E-07	7.07E-09	9.47E-08	1.44E-08	1.44E-08	7.90E-09	1.38E-07	3.84E-09	5.13E-08	6.39E-09	6.39E-09	3.16E-09	7.11E-08
66	258562.93	4085064.76	5.30E-08	7.08E-07	1.05E-07	1.05E-07	5.84E-08	1.03E-06	8.04E-09	1.08E-07	1.63E-08	1.63E-08	8.99E-09	1.58E-07	4.37E-09	5.83E-08	7.27E-09	7.27E-09	3.60E-09	8.08E-08
67	258562.21	4085040.01	6.02E-08	8.04E-07	1.19E-07	1.19E-07	6.63E-08	1.17E-06	9.14E-09	1.23E-07	1.86E-08	1.86E-08	1.02E-08	1.79E-07	4.96E-09	6.63E-08	8.27E-09	8.27E-09	4.09E-09	9.19E-08
68	258561.48	4085015.25	6.80E-08	9.08E-07	1.34E-07	1.34E-07	7.49E-08	1.32E-06	1.03E-08	1.38E-07	2.10E-08	2.10E-08	1.15E-08	2.02E-07	5.60E-09	7.48E-08	9.33E-09	9.33E-09	4.62E-09	1.04E-07
69	258560.76	4084990.49	7.58E-08	1.01E-06	1.50E-07	1.50E-07	8.35E-08	1.47E-06	1.15E-08	1.54E-07	2.34E-08	2.34E-08	1.29E-08	2.25E-07	6.24E-09	8.34E-08	1.04E-08	1.04E-08	5.15E-09	1.16E-07
70	258560.04	4084965.74	8.30E-08	1.11E-06	1.64E-07	1.64E-07	9.15E-08	1.61E-06	1.26E-08	1.69E-07	2.56E-08	2.56E-08	1.41E-08	2.47E-07	6.84E-09	9.14E-08	1.14E-08	1.14E-08	5.64E-09	1.27E-07
71	258559.32	4084940.98	8.92E-08	1.19E-06	1.76E-07	1.76E-07	9.83E-08	1.73E-06	1.35E-08	1.82E-07	2.75E-08	2.75E-08	1.51E-08	2.65E-07	7.35E-09	9.82E-08	1.22E-08	1.22E-08	6.06E-09	1.36E-07
72	258558.59	4084916.23	9.38E-08	1.25E-06	1.85E-07	1.85E-07	1.03E-07	1.82E-06	1.42E-08	1.91E-07	2.89E-08	2.89E-08	1.59E-08	2.79E-07	7.73E-09	1.03E-07	1.29E-08	1.29E-08	6.37E-09	1.43E-07
73	258606.01	4085135	3.06E-08	4.08E-07	6.04E-08	6.04E-08	3.37E-08	5.94E-07	4.64E-09	6.22E-08	9.43E-09	9.43E-09	5.19E-09	9.09E-08	2.52E-09	3.37E-08	4.20E-09	4.20E-09	2.08E-09	4.67E-08
74	258597.67	4085157.18	2.90E-08	3.87E-07	5.72E-08	5.72E-08	3.19E-08	5.62E-07	4.39E-09	5.89E-08	8.93E-09	8.93E-09	4.91E-09	8.61E-08	2.39E-09	3.19E-08	3.98E-09	3.98E-09	1.97E-09	4.42E-08
75	258589.32	4085179.36	2.74E-08	3.65E-07	5.41E-08	5.41E-08	3.01E-08	5.31E-07	4.15E-09	5.57E-08	8.44E-09	8.44E-09	4.64E-09	8.14E-08	2.26E-09	3.01E-08	3.76E-09	3.76E-09	1.86E-09	4.18E-08
76	258580.98	4085201.55	2.58E-08	3.45E-07	5.10E-08	5.10E-08	2.84E-08	5.01E-07	3.92E-09	5.25E-08	7.97E-09	7.97E-09	4.38E-09	7.68E-08	2.13E-09	2.84E-08	3.54E-09	3.54E-09	1.75E-09	3.94E-08
77	258572.64	4085223.73	2.44E-08	3.25E-07	4.82E-08	4.82E-08	2.68E-08	4.73E-07	3.70E-09	4.96E-08	7.52E-09	7.52E-09	4.13E-09	7.25E-08	2.01E-09	2.68E-08	3.35E-09	3.35E-09	1.66E-09	3.72E-08
78	258564.29	4085245.91	2.30E-08	3.07E-07	4.55E-08	4.55E-08	2.54E-08	4.47E-07	3.49E-09	4.68E-08	7.10E-09	7.10E-09	3.90E-09	6.84E-08	1.90E-09	2.53E-08	3.16E-09	3.16E-09	1.56E-09	3.51E-08
79	258555.95	4085268.1	2.18E-08	2.91E-07	4.31E-08	4.31E-08	2.40E-08	4.23E-07	3.31E-09	4.43E-08	6.72E-09	6.72E-09	3.70E-09	6.48E-08	1.80E-09	2.40E-08	2.99E-09	2.99E-09	1.48E-09	3.33E-08
80	258526.1	4085300.23	2.16E-08	2.88E-07	4.26E-08	4.26E-08	2.37E-08	4.18E-07	3.27E-09	4.39E-08	6.65E-09	6.65E-09	3.66E-09	6.41E-08	1.78E-09	2.37E-08	2.96E-09	2.96E-09	1.46E-09	3.29E-08
81	258504.59	4085310.17	2.25E-08	3.01E-07	4.45E-08	4.45E-08	2.48E-08	4.37E-07	3.42E-09	4.58E-08	6.95E-09	6.95E-09	3.82E-09	6.69E-08	1.86E-09	2.48E-08	3.09E-09	3.09E-09	1.53E-09	3.44E-08
82	258483.08	4085320.12	2.35E-08	3.14E-07	4.65E-08	4.65E-08	2.59E-08	4.57E-07	3.57E-09	4.79E-08	7.26E-09	7.26E-09	3.99E-09	7.00E-08	1.94E-09	2.59E-08	3.23E-09	3.23E-09	1.60E-09	3.59E-08
83	258461.56	4085330.07	2.46E-08	3.28E-07	4.85E-08	4.85E-08	2.71E-08	4.77E-07	3.73E-09	5.00E-08	7.58E-09	7.58E-09	4.17E-09	7.30E-08	2.02E-09	2.70E-08	3.37E-09	3.37E-09	1.67E-09	3.75E-08
84	258440.05	4085340.02	2.56E-08	3.41E-07	5.05E-08	5.05E-08	2.82E-08	4.96E-07	3.88E-09	5.20E-08	7.88E-09	7.88E-09	4.33E-09	7.60E-08	2.11E-09	2.81E-08	3.51E-09	3.51E-09	1.74E-09	3.90E-08
85	258418.54	4085349.97	2.65E-08	3.55E-07	5.25E-08	5.25E-08	2.92E-08	5.15E-07	4.03E-09	5.40E-08	8.19E-09	8.19E-09	4.50E-09	7.89E-08	2.19E-09	2.92E-08	3.64E-09	3.64E-09	1.80E-09	4.05E-08
86	258397.03	4085359.92	2.76E-08	3.68E-07	5.45E-08	5.45E-08	3.04E-08	5.35E-07	4.18E-09	5.61E-08	8.51E-09	8.51E-09	4.68E-09	8.20E-08	2.27E-09	3.04E-08	3.78E-09	3.78E-09	1.87E-09	4.21E-08
87	258614.35	4085112.82	3.22E-08	4.30E-07	6.36E-08	6.36E-08	3.55E-08	6.25E-07	4.89E-09	6.55E-08	9.94E-09	9.94E-09	5.46E-09	9.57E-08	2.65E-09	3.55E-08	4.42E-09	4.42E-09	2.19E-09	4.91E-08
88	258613.63	4085088.06	3.57E-08	4.78E-07	7.06E-08	7.06E-08	3.94E-08	6.94E-07	5.43E-09	7.27E-08	1.10E-08	1.10E-08	6.06E-09	1.06E-07	2.95E-09	3.94E-08	4.91E-09	4.91E-09	2.43E-09	5.46E-08
89	258612.91	4085063.3	3.98E-08	5.32E-07	7.87E-08	7.87E-08	4.39E-08	7.73E-07	6.04E-09	8.10E-08	1.23E-08	1.23E-08	6.75E-09	1.18E-07	3.28E-09	4.38E-08	5.46E-09	5.46E-09	2.70E-09	6.07E-08
90	258612.19	4085038.55	4.43E-08	5.92E-07	8.76E-08	8.76E-08	4.88E-08	8.61E-07	6.73E-09	9.02E-08	1.37E-08	1.37E-08	7.52E-09	1.32E-07	3.65E-09	4.88E-08	6.09E-09	6.09E-09	3.01E-09	6.77E-08
91	258611.46	4085013.79	4.93E-08	6.58E-07	9.74E-08	9.74E-08	5.43E-08	9.56E-07	7.48E-09	1.00E-07	1.52E-08	1.52E-08	8.36E-09	1.46E-07	4.06E-09	5.42E-08	6.76E-09	6.76E-09	3.35E-09	7.52E-08
92	258610.74	4084989.04	5.44E-08	7.27E-07	1.08E-07	1.08E-07	5.99E-08	1.06E-06	8.26E-09	1.11E-07	1.68E-08	1.68E-08	9.23E-09	1.62E-07	4.48E-09	5.99E-08	7.47E-09	7.47E-09	3.70E-09	8.30E-08
93	258610.02	4084964.28	5.95E-08	7.95E-07	1.18E-07	1.18E-07	6.56E-08	1.15E-06	9.03E-09	1.21E-07	1.84E-08	1.84E-08	1.01E-08	1.77E-07	4.90E-09	6.55E-08	8.17E-09	8.17E-09	4.04E-09	9.08E-08
94	258609.3	4084939.52	6.43E-08	8.59E-07	1.27E-07	1.27E-07	7.08E-08	1.25E-06	9.75E-09	1.31E-07	1.98E-08	1.98E-08	1.09E-08	1.91E-07	5.30E-09	7.08E-08	8.82E-09	8.82E-09	4.37E-09	9.81E-08
95	258608.57	4084914.77	6.84E-08	9.13E-07	1.35E-07	1.35E-07	7.53E-08	1.33E-06	1.04E-08	1.39E-07	2.11E-08	2.11E-08	1.16E-08	2.03E-07	5.64E-09	7.53E-08	9.39E-09	9.39E-09	4.65E-09	1.04E-07
96	258656.32	4085132.65	2.50E-08	3.34E-07	4.94E-08	4.94E-08	2.75E-08	4.85E-07	3.79E-09	5.08E-08	7.71E-09	7.71E-09	4.24E-09	7.43E-08	2.06E-09	2.75E-08	3.43E-09	3.43E-09	1.70E-09	3.81E-08
97	258648.31	4085153.95	2.39E-08	3.20E-07	4.73E-08	4.73E-08	2.64E-08	4.64E-07	3.63E-09	4.87E-08	7.38E-09	7.38E-09	4.06E-09	7.11E-08	1.97E-09	2.63E-08	3.28E-09	3.28E-09	1.63E-09	3.65E-08
98	258640.3	4085175.24	2.28E-08	3.05E-07	4.52E-08	4.52E-08	2.52E-08	4.44E-07	3.47E-09	4.65E-08	7.05E-09	7.05E-09	3.88E-09	6.79E-08	1.88E-09	2.52E-08	3.14E-09	3.14E-09	1.55E-09	3.49E-08
99	258632.29	4085196.54	2.18E-08	2.91E-07	4.31E-08	4.31E-08	2.40E-08	4.23E-07	3.31E-09	4.43E-08	6.72E-09	6.72E-09	3.70E-09	6.48E-08	1.80E-09	2.40E-08	2.99E-09	2.99E-09	1.48E-09	3.32E-08
100	258624.28	4085217.83	2.08E-08	2.77E-07	4.10E-08	4.10E-08	2.29E-08	4.03E-07	3.15E-09	4.22E-08	6.40E-09	6.40E-09	3.52E-09	6.17E-08	1.71E-09	2.28E-08	2.85E-09	2.85E-09	1.41E-09	3.17E-08
101	258616.27	4085239.13	1.98E-08	2.64E-07	3.91E-08	3.91E-08	2.18E-08	3.84E-07	3.00E-09	4.02E-08	6.10E-09	6.10E-09	3.35E-09	5.88E-08	1.63E-09	2.18E-08	2.71E-09	2.71E-09	1.34E-09	3.02E-08
102	258608.27	4085260.43	1.88E-08	2.52E-07	3.72E-08	3.72E-08	2.07E-08	3.66E-07	2.86E-09	3.83E-08	5.81E-09	5.81E-09	3.19E-09	5.60E-08	1.55E-09	2.07E-08	2.59E-09	2.59E-09	1.28E-09	2.87E-08
103	258600.26	4085281.72	1.80E-08	2.40E-07	3.55E-08	3.55E-08	1.98E-08	3.49E-07	2.73E-09	3.65E-08	5.54E-09	5.54E-09	3.05E-09	5.34E-08	1.48E-09	1.98E-08	2.47E-09	2.47E-09	1.22E-09	2.74E-08
104	258592.25	4085303.02	1.72E-08	2.29E-07	3.39E-08	3.39E-08	1.89E-08	3.33E-07	2.60E-09	3.49E-08	5.29E-09	5.29E-09	2.91E-09	5.10E-08	1.41E-09	1.89E-08	2.36E-09	2.36E-09	1.17E-09	2.62E-08
105	258563.59	4085333.86	1.70E-08	2.27E-07	3.36E-08	3.36E-08	1.87E-08	3.30E-07	2.58E-09	3.46E-08	5.25E-09	5.25E-09	2.88E-09	5.06E-08	1.40E-09	1.87E-08	2.33E-09	2.33E-09	1.16E-09	2.59E-08
106	258542.94	4085343.41	1.76E-08	2.35E-07	3.48E-08	3.48E-08	1.94E-08	3.42E-07	2.68E-09	3.59E-08	5.44E-09	5.44E-09	2.99E-09	5.24E-08	1.45E-09	1.94E-08	2.42E-09	2.42E-09	1.20E-09	2.69E-08
107	258522.29	4085352.96	1.83E-08	2.45E-07	3.62E-08	3.62E-08	2.02E-08	3.55E-07	2.78E-09	3.73E-08	5.65E-09	5.65E-09	3.11E-09	5.44E-08	1.51E-09	2.02E-08	2.51E-09	2.51E-09	1.24E-09	2.79E-08
108	258501.64	4085362.51	1.90E-08	2.54E-07	3.76E-08	3.76E-08	2.10E-08	3.69E-07	2.89E-09	3.87E-08	5.87E-09	5.87E-09	3.23E-09	5.66E-08	1.57E-09	2.09E-08	2.61E-09	2.61E-09	1.29E-09	2.90E-08
109	258480.99	4085372.06	1.97E-08	2.64E-07	3.90E-08	3.90E-08	2.17E-08	3.83E-07	2.99E-09	4.01E-08	6.09E-09	6.09E-09	3.35E-09	5.87E-08	1.63E-09	2.17E-08	2.71E-09	2.71E-09	1.34E-09	3.01E-08
110	258460.34	4085381.61	2.04E-08	2.73E-07	4.03E-08	4.03E-08	2.25E-08	3.96E-07	3.10E-09	4.15E-08	6.30E-09	6.30E-09	3.46E-09	6.07E-08	1.68E-09	2.25E-08	2.80E-09	2.80E-09	1.39E-09	3.11E-08
111	258439.68	4085391.16	2.11E-08	2.81E-07	4.16E-08	4.16E-08	2.32E-08	4.09E-07	3.20E-09	4.29E-08	6.50E-09	6.50E-09	3.57E-09	6.26E-08	1.74E-09	2.32E-08	2.89E-09	2.89E-09	1.43E-09	3.21E-08
112	258419.03	4085400.72	2.17E-08	2.90E-07	4.29E-08	4.29E-08	2.39E-08	4.22E-07	3.30E-09	4.42E-08	6.71E-09	6.71E-09	3.69E-09	6.46E-08	1.79E-09	2.39E-08	2.98E-09	2.98E-09	1.48E-09	3.32E-08
113	258398.38	4085410.27	2.24E-08	3.00E-07	4.43E-08	4.43E-08	2.47E-08	4.36E-07	3.41E-09	4.57E-08	6.92E-09	6.92E-09	3.81E-09	6.67E-08	1.85E-09	2.47E-08	3.08E-09	3.08E-09	1.52E-09	3.42E-08
114	258664.33	4085111.36	2.60E-08	3.48E-07	5.15E-08	5.15E-08	2.87E-08	5.05E-07	3.95E-09	5.30E-08	8.03E-09	8.03E-09	4.42E-09	7.74E-08	2.15E-09	2.87E-08	3.57E-09	3.57E-09	1.77E-09	3.97E-08

115	258663.61	4085086.6	2.85E-08	3.80E-07	5.63E-08	5.63E-08	3.14E-08	5.53E-07	4.32E-09	5.79E-08	8.79E-09	8.79E-09	4.83E-09	8.47E-08	2.35E-09	3.13E-08	3.91E-09	3.91E-09	1.93E-09	4.34E-08
116	258662.89	4085061.85	3.12E-08	4.17E-07	6.17E-08	6.17E-08	3.44E-08	6.06E-07	4.74E-09	6.35E-08	9.63E-09	9.63E-09	5.29E-09	9.28E-08	2.57E-09	3.44E-08	4.28E-09	4.28E-09	2.12E-09	4.76E-08
117	258662.16	4085037.09	3.43E-08	4.58E-07	6.77E-08	6.77E-08	3.77E-08	6.65E-07	5.20E-09	6.97E-08	1.06E-08	1.06E-08	5.81E-09	1.02E-07	2.82E-09	3.77E-08	4.70E-09	4.70E-09	2.33E-09	5.23E-08
118	258661.44	4085012.33	3.76E-08	5.02E-07	7.42E-08	7.42E-08	4.14E-08	7.29E-07	5.70E-09	7.64E-08	1.16E-08	1.16E-08	6.37E-09	1.12E-07	3.10E-09	4.14E-08	5.16E-09	5.16E-09	2.55E-09	5.73E-08
119	258660.72	4084987.58	4.11E-08	5.49E-07	8.12E-08	8.12E-08	4.52E-08	7.97E-07	6.23E-09	8.36E-08	1.27E-08	1.27E-08	6.97E-09	1.22E-07	3.39E-09	4.52E-08	5.64E-09	5.64E-09	2.79E-09	6.27E-08
120	258660	4084962.82	4.47E-08	5.97E-07	8.83E-08	8.83E-08	4.92E-08	8.67E-07	6.78E-09	9.09E-08	1.38E-08	1.38E-08	7.58E-09	1.33E-07	3.68E-09	4.92E-08	6.13E-09	6.13E-09	3.04E-09	6.82E-08
121	258659.27	4084938.06	4.83E-08	6.45E-07	9.54E-08	9.54E-08	5.32E-08	9.37E-07	7.32E-09	9.82E-08	1.49E-08	1.49E-08	8.19E-09	1.43E-07	3.98E-09	5.31E-08	6.62E-09	6.62E-09	3.28E-09	7.36E-08
122	258658.55	4084913.31	5.16E-08	6.89E-07	1.02E-07	1.02E-07	5.68E-08	1.00E-06	7.83E-09	1.05E-07	1.59E-08	1.59E-08	8.75E-09	1.53E-07	4.25E-09	5.68E-08	7.08E-09	7.08E-09	3.50E-09	7.87E-08
123	258756.07	4085130.28	1.77E-08	2.36E-07	3.49E-08	3.49E-08	1.95E-08	3.43E-07	2.68E-09	3.59E-08	5.45E-09	5.45E-09	3.00E-09	5.25E-08	1.46E-09	1.94E-08	2.42E-09	2.42E-09	1.20E-09	2.69E-08
124	258747.86	4085152.12	1.71E-08	2.28E-07	3.38E-08	3.38E-08	1.88E-08	3.32E-07	2.59E-09	3.48E-08	5.27E-09	5.27E-09	2.90E-09	5.08E-08	1.41E-09	1.88E-08	2.35E-09	2.35E-09	1.16E-09	2.61E-08
125	258739.64	4085173.97	1.65E-08	2.20E-07	3.26E-08	3.26E-08	1.82E-08	3.20E-07	2.50E-09	3.36E-08	5.09E-09	5.09E-09	2.80E-09	4.90E-08	1.36E-09	1.82E-08	2.26E-09	2.26E-09	1.12E-09	2.52E-08
126	258731.43	4085195.81	1.59E-08	2.12E-07	3.14E-08	3.14E-08	1.75E-08	3.08E-07	2.41E-09	3.23E-08	4.90E-09	4.90E-09	2.70E-09	4.73E-08	1.31E-09	1.75E-08	2.18E-09	2.18E-09	1.08E-09	2.42E-08
127	258723.22	4085217.65	1.53E-08	2.04E-07	3.02E-08	3.02E-08	1.68E-08	2.97E-07	2.32E-09	3.11E-08	4.72E-09	4.72E-09	2.59E-09	4.55E-08	1.26E-09	1.68E-08	2.10E-09	2.10E-09	1.04E-09	2.33E-08
128	258715	4085239.49	1.47E-08	1.96E-07	2.91E-08	2.91E-08	1.62E-08	2.85E-07	2.23E-09	2.99E-08	4.54E-09	4.54E-09	2.49E-09	4.37E-08	1.21E-09	1.62E-08	2.02E-09	2.02E-09	9.99E-10	2.24E-08
129	258706.79	4085261.33	1.41E-08	1.89E-07	2.79E-08	2.79E-08	1.56E-08	2.74E-07	2.14E-09	2.88E-08	4.36E-09	4.36E-09	2.40E-09	4.20E-08	1.16E-09	1.56E-08	1.94E-09	1.94E-09	9.60E-10	2.16E-08
130	258698.57	4085283.17	1.36E-08	1.81E-07	2.68E-08	2.68E-08	1.50E-08	2.64E-07	2.06E-09	2.76E-08	4.19E-09	4.19E-09	2.30E-09	4.04E-08	1.12E-09	1.49E-08	1.86E-09	1.86E-09	9.23E-10	2.07E-08
131	258690.36	4085305.01	1.30E-08	1.74E-07	2.58E-08	2.58E-08	1.44E-08	2.53E-07	1.98E-09	2.65E-08	4.02E-09	4.02E-09	2.21E-09	3.87E-08	1.07E-09	1.43E-08	1.79E-09	1.79E-09	8.86E-10	1.99E-08
132	258682.14	4085326.85	1.25E-08	1.67E-07	2.47E-08	2.47E-08	1.38E-08	2.43E-07	1.90E-09	2.54E-08	3.86E-09	3.86E-09	2.12E-09	3.72E-08	1.03E-09	1.38E-08	1.72E-09	1.72E-09	8.49E-10	1.91E-08
133	258673.93	4085348.7	1.21E-08	1.61E-07	2.38E-08	2.38E-08	1.33E-08	2.34E-07	1.83E-09	2.45E-08	3.72E-09	3.72E-09	2.05E-09	3.59E-08	9.94E-10	1.33E-08	1.66E-09	1.66E-09	8.19E-10	1.84E-08
134	258665.71	4085370.54	1.16E-08	1.55E-07	2.29E-08	2.29E-08	1.28E-08	2.25E-07	1.76E-09	2.36E-08	3.58E-09	3.58E-09	1.97E-09	3.45E-08	9.57E-10	1.28E-08	1.59E-09	1.59E-09	7.89E-10	1.77E-08
135	258636.32	4085402.17	1.16E-08	1.54E-07	2.28E-08	2.28E-08	1.27E-08	2.24E-07	1.75E-09	2.35E-08	3.57E-09	3.57E-09	1.96E-09	3.44E-08	9.52E-10	1.27E-08	1.59E-09	1.59E-09	7.85E-10	1.76E-08
136	258615.14	4085411.97	1.19E-08	1.59E-07	2.35E-08	2.35E-08	1.31E-08	2.31E-07	1.80E-09	2.42E-08	3.67E-09	3.67E-09	2.02E-09	3.54E-08	9.80E-10	1.31E-08	1.63E-09	1.63E-09	8.08E-10	1.81E-08
137	258593.96	4085421.76	1.23E-08	1.64E-07	2.42E-08	2.42E-08	1.35E-08	2.38E-07	1.86E-09	2.49E-08	3.78E-09	3.78E-09	2.08E-09	3.65E-08	1.01E-09	1.35E-08	1.68E-09	1.68E-09	8.33E-10	1.87E-08
138	258572.78	4085431.56	1.27E-08	1.69E-07	2.50E-08	2.50E-08	1.40E-08	2.46E-07	1.92E-09	2.58E-08	3.91E-09	3.91E-09	2.15E-09	3.77E-08	1.04E-09	1.39E-08	1.74E-09	1.74E-09	8.61E-10	1.93E-08
139	258551.6	4085441.36	1.31E-08	1.75E-07	2.59E-08	2.59E-08	1.44E-08	2.54E-07	1.99E-09	2.67E-08	4.04E-09	4.04E-09	2.22E-09	3.89E-08	1.08E-09	1.44E-08	1.80E-09	1.80E-09	8.90E-10	2.00E-08
140	258530.42	4085451.15	1.35E-08	1.81E-07	2.67E-08	2.67E-08	1.49E-08	2.63E-07	2.05E-09	2.75E-08	4.17E-09	4.17E-09	2.29E-09	4.02E-08	1.11E-09	1.49E-08	1.86E-09	1.86E-09	9.19E-10	2.06E-08
141	258509.24	4085460.95	1.39E-08	1.86E-07	2.75E-08	2.75E-08	1.53E-08	2.70E-07	2.11E-09	2.83E-08	4.30E-09	4.30E-09	2.36E-09	4.14E-08	1.15E-09	1.53E-08	1.91E-09	1.91E-09	9.47E-10	2.13E-08
142	258488.06	4085470.74	1.43E-08	1.91E-07	2.83E-08	2.83E-08	1.58E-08	2.78E-07	2.17E-09	2.91E-08	4.41E-09	4.41E-09	2.43E-09	4.25E-08	1.18E-09	1.57E-08	1.96E-09	1.96E-09	9.72E-10	2.18E-08
143	258466.88	4085480.54	1.47E-08	1.96E-07	2.90E-08	2.90E-08	1.62E-08	2.85E-07	2.23E-09	2.98E-08	4.53E-09	4.53E-09	2.49E-09	4.36E-08	1.21E-09	1.61E-08	2.01E-09	2.01E-09	9.97E-10	2.24E-08
144	258445.7	4085490.33	1.50E-08	2.01E-07	2.97E-08	2.97E-08	1.66E-08	2.92E-07	2.28E-09	3.06E-08	4.64E-09	4.64E-09	2.55E-09	4.47E-08	1.24E-09	1.66E-08	2.07E-09	2.07E-09	1.02E-09	2.30E-08
145	258424.52	4085500.13	1.54E-08	2.06E-07	3.05E-08	3.05E-08	1.70E-08	3.00E-07	2.34E-09	3.14E-08	4.77E-09	4.77E-09	2.62E-09	4.59E-08	1.27E-09	1.70E-08	2.12E-09	2.12E-09	1.05E-09	2.36E-08
146	258403.34	4085509.92	1.59E-08	2.12E-07	3.14E-08	3.14E-08	1.75E-08	3.08E-07	2.41E-09	3.23E-08	4.90E-09	4.90E-09	2.69E-09	4.72E-08	1.31E-09	1.75E-08	2.18E-09	2.18E-09	1.08E-09	2.42E-08
147	258764.29	4085108.44	1.82E-08	2.43E-07	3.60E-08	3.60E-08	2.01E-08	3.54E-07	2.77E-09	3.71E-08	5.62E-09	5.62E-09	3.09E-09	5.42E-08	1.50E-09	2.01E-08	2.50E-09	2.50E-09	1.24E-09	2.78E-08
148	258763.57	4085083.68	1.95E-08	2.61E-07	3.86E-08	3.86E-08	2.15E-08	3.79E-07	2.96E-09	3.97E-08	6.02E-09	6.02E-09	3.31E-09	5.80E-08	1.61E-09	2.15E-08	2.68E-09	2.68E-09	1.33E-09	2.98E-08
149	258762.84	4085058.93	2.09E-08	2.80E-07	4.14E-08	4.14E-08	2.31E-08	4.07E-07	3.18E-09	4.26E-08	6.46E-09	6.46E-09	3.55E-09	6.23E-08	1.73E-09	2.31E-08	2.88E-09	2.88E-09	1.42E-09	3.20E-08
150	258762.12	4085034.17	2.25E-08	3.01E-07	4.45E-08	4.45E-08	2.48E-08	4.37E-07	3.42E-09	4.58E-08	6.95E-09	6.95E-09	3.82E-09	6.69E-08	1.86E-09	2.48E-08	3.09E-09	3.09E-09	1.53E-09	3.44E-08
151	258761.4	4085009.42	2.42E-08	3.23E-07	4.78E-08	4.78E-08	2.67E-08	4.70E-07	3.67E-09	4.93E-08	7.47E-09	7.47E-09	4.11E-09	7.20E-08	2.00E-09	2.66E-08	3.32E-09	3.32E-09	1.64E-09	3.69E-08
152	258760.68	4084984.66	2.60E-08	3.48E-07	5.14E-08	5.14E-08	2.87E-08	5.05E-07	3.95E-09	5.30E-08	8.03E-09	8.03E-09	4.42E-09	7.74E-08	2.15E-09	2.87E-08	3.57E-09	3.57E-09	1.77E-09	3.97E-08
153	258759.95	4084959.9	2.80E-08	3.74E-07	5.53E-08	5.53E-08	3.08E-08	5.43E-07	4.25E-09	5.69E-08	8.63E-09	8.63E-09	4.75E-09	8.32E-08	2.31E-09	3.08E-08	3.84E-09	3.84E-09	1.90E-09	4.27E-08
154	258759.23	4084935.15	3.00E-08	4.01E-07	5.93E-08	5.93E-08	3.30E-08	5.82E-07	4.55E-09	6.10E-08	9.26E-09	9.26E-09	5.09E-09	8.92E-08	2.47E-09	3.30E-08	4.12E-09	4.12E-09	2.04E-09	4.58E-08
155	258758.51	4084910.39	3.20E-08	4.28E-07	6.33E-08	6.33E-08	3.53E-08	6.22E-07	4.86E-09	6.52E-08	9.88E-09	9.88E-09	5.43E-09	9.52E-08	2.64E-09	3.53E-08	4.40E-09	4.40E-09	2.18E-09	4.89E-08
156	258855.9	4085127.71	1.33E-08	1.77E-07	2.63E-08	2.63E-08	1.46E-08	2.58E-07	2.02E-09	2.70E-08	4.10E-09	4.10E-09	2.25E-09	3.95E-08	1.10E-09	1.46E-08	1.82E-09	1.82E-09	9.03E-10	2.03E-08
157	258847.56	4085149.89	1.29E-08	1.73E-07	2.56E-08	2.56E-08	1.43E-08	2.51E-07	1.96E-09	2.63E-08	3.99E-09	3.99E-09	2.20E-09	3.85E-08	1.07E-09	1.42E-08	1.78E-09	1.78E-09	8.79E-10	1.97E-08
158	258839.22	4085172.07	1.26E-08	1.68E-07	2.49E-08	2.49E-08	1.39E-08	2.44E-07	1.91E-09	2.56E-08	3.88E-09	3.88E-09	2.13E-09	3.74E-08	1.04E-09	1.38E-08	1.73E-09	1.73E-09	8.55E-10	1.92E-08
159	258830.87	4085194.25	1.22E-08	1.63E-07	2.41E-08	2.41E-08	1.34E-08	2.37E-07	1.85E-09	2.48E-08	3.76E-09	3.76E-09	2.07E-09	3.63E-08	1.01E-09	1.34E-08	1.68E-09	1.68E-09	8.29E-10	1.86E-08
160	258822.53	4085216.44	1.18E-08	1.58E-07	2.34E-08	2.34E-08	1.30E-08	2.29E-07	1.79E-09	2.41E-08	3.65E-09	3.65E-09	2.00E-09	3.51E-08	9.74E-10	1.30E-08	1.62E-09	1.62E-09	8.03E-10	1.80E-08
161	258814.19	4085238.62	1.14E-08	1.53E-07	2.26E-08	2.26E-08	1.26E-08	2.22E-07	1.74E-09	2.33E-08	3.53E-09	3.53E-09	1.94E-09	3.40E-08	9.43E-10	1.26E-08	1.57E-09	1.57E-09	7.78E-10	1.75E-08
162	258805.84	4085260.8	1.11E-08	1.48E-07	2.19E-08	2.19E-08	1.22E-08	2.15E-07	1.68E-09	2.25E-08	3.42E-09	3.42E-09	1.88E-09	3.29E-08	9.13E-10	1.22E-08	1.52E-09	1.52E-09	7.53E-10	1.69E-08
163	258797.5	4085282.98	1.07E-08	1.43E-07	2.12E-08	2.12E-08	1.18E-08	2.08E-07	1.63E-09	2.18E-08	3.31E-09	3.31E-09	1.82E-09	3.19E-08	8.83E-10	1.18E-08	1.47E-09	1.47E-09	7.28E-10	1.64E-08
164	258789.16	4085305.17	1.04E-08	1.38E-07	2.05E-08	2.05E-08	1.14E-08	2.01E-07	1.57E-09	2.11E-08	3.19E-09	3.19E-09	1.76E-09	3.08E-08	8.53E-10	1.14E-08	1.42E-09	1.42E-09	7.04E-10	1.58E-08
165	258780.81	4085327.35	9.96E-09	1.33E-07	1.97E-08	1.97E-08	1.10E-08	1.93E-07	1.51E-09	2.03E-08	3.07E-09	3.07E-09	1.69E-09	2.96E-08	8.21E-10	1.10E-08	1.37E-09	1.37E-09	6.77E-10	1.52E-08
166	258772.47	4085349.53	9.63E-09	1.29E-07	1.90E-08	1.90E-08	1.06E-08	1.87E-07	1.46E-09	1.96E-08	2.97E-09	2.97E-09	1.63E-09	2.86E-08	7.94E-10	1.06E-08	1.32E-09	1.32E-09	6.54E-10	1.47E-08
167	258764.13	4085371.72	9.32E-09	1.24E-07	1.84E-08	1.84E-08	1.03E-08	1.81E-07	1.41E-09	1.90E-08	2.88E-09	2.88E-09	1.58E-09	2.77E-08	7.68E-10	1.03E-08	1.28E-09	1.28E-09	6.33E-10	1.42E-08
168	258755.78	4085393.9	9.02E-09	1.21E-07	1.78E-08	1.78E-08	9.94E-09	1.75E-07	1.37E-09	1.84E-08	2.78E-09	2.78E-09	1.53E-09	2.68E-08	7.44E-10	9.93E-09	1.24E-09	1.24E-09	6.13E-10	1.38E-08
169	258747.44	4085416.08	8.74E-09	1.17E-07	1.73E-08	1.73E-08	9.63E-09	1.70E-07	1.33E-09	1.78E-08	2.70E-09	2.70E-09	1.48E-09	2.60E-08	7.21E-10	9.63E-09	1.20E-09	1.20E-09	5.94E-10	1.33E-08
170	258739.1	4085438.26	8.49E-09	1.13E-07	1.68E-08	1.68E-08	9.35E-09	1.65E-07	1.29E-09	1.73E-08	2.62E-09	2.62E-09	1.44E-09	2.52E-08	7.00E-10	9.35E-09	1.17E-09	1.17E-09	5.77E-10	1.30E-08
171	258709.24	4085470.39	8.43E-09	1.13E-07	1.67E-08	1.67E-08	9.29E-09	1.64E-07	1.28E-09	1.72E-08	2.60E-09	2.60E-09	1.43E-09	2.51E-08	6.95E-10	9.28E-09	1.16E-09	1.16E-09	5.73E-10	1.29E-08
172	258687.73	4085480.34	8.62E-09	1.15E-07	1.70E-08	1.70E-08	9.50E-09	1.67E-07	1.31E-09	1.75E-08	2.66E-09	2.66E-09	1.46E-09	2.56E-08	7.11E-10	9.50E-09	1.18E-09	1.18E-09	5.86E-10	1.32E-08
173	258666.22	4085490.29	8.84E-09	1.18E-07	1.75E-08	1.75E-08	9.74E-09	1.72E-07	1.34E-09	1.80E-08	2.73E-09	2.73E-09	1.50E-09	2.63E-08	7.28E-10	9.73E-09	1.21E-09	1.21E-09	6.01E-10	1.35E-08
174	258644.71	4085500.24	9.08E-09	1.21E-07	1.79E-08	1.79E-08	1.00E-08	1.76E-07	1.38E-09	1.85E-08	2.80E-09	2.80E-09	1.54E-09	2.70E-08	7.48E-10	9.99E-09	1.25E-09	1.25E-09	6.17E-10	1.38E-08
175	258623.2	4085510.19	9.34E-09	1.25E-07	1.85E-08	1.85E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.88E-09	2.88E-09	1.58E-09	2.78E-08	7.70E-10	1.03E-08	1.28E-09	1.28E-09	6.35E-10	1.43E-08
176	258601.69	4085520.14	9.63E-09	1.29E-07	1.90E-08	1.90E-08	1.06E-08	1.87E-07	1.46E-09	1.96E-08	2.97E-09	2.97E-09	1.63E-09	2.86E-08	7.94E-10	1.06E-08	1.32E-09	1.32E-09	6.55E-10	1.47E-08
177	258580.18	4085530.08	9.93E-09	1.33E-07	1.96E-08	1.96E-08	1.09E-08	1.93E-07	1.51E-09	2.02E-08	3.06E-09	3.06E-09	1.68E-09	2.95E-08	8.18E-10	1.09E-08	1.36E-09	1.36E-09	6.75E-10	1.52E-08
178	258558.67	4085540.03	1.02E-08	1.37E-07	2.02E-08	2.02E-08	1.13E-08	1.99E-07	1.55E-09	2.08E-08	3.16E-09	3.16E-09	1.74E-09	3.04E-08	8.43E-10	1.13E-08	1.40E-09	1.40E-09	6.95E-10	1.56E-08
179	258537.16	4085549.98	1.05E-08	1.40E-07	2.08E-08	2.08E-08	1.16E-08	2.04E-07	1.60E-09	2.14E-08	3.24E-09	3.24E-09	1.78E-09	3.13E-08	8.66E-10	1.16E-08	1.44E-09	1.44E-09	7.14E-10	1.60E-08
180	258515.65	4085559.93	1.07E-08	1.43E-07	2.12E-08	2.12E-08	1.18E-08	2.08E-07	1.63E-09	2.19E-08	3.31E-09	3.31E-09	1.82E-09	3.19E-08	8.85E-10	1.18E-08	1.47E-09	1.47E-09	7.30E-10	1.64E-08
181	258494.14	4085569.88	1.10E-08	1.46E-07	2.17E-08	2.17E-08	1.21E-08	2.13E-07	1.66E-09	2.23E-08	3.38E-09	3.38E-09	1.86E-09	3.26E-08	9.04E-10	1.21E-08	1.51E-09	1.51E-09	7.45E-10	1.67E-08
182	258472.63	4085579.83	1.12E-08	1.50E-07	2.21E-08	2.21E-08	1.23E-08	2.17E-07	1.70E-09	2.28E-08	3.46E-09	3.46E-09	1.90E-09	3.33E-08	9.23E-10	1.23E-08	1.54E-09	1.54E-09	7.61E-10	1.71E-08
183	258451.12	4085589.78	1.15E-08	1.53E-07	2.26E-08	2.26E-08	1.26E-08	2.22E-07	1.74E-09	2.33E-08	3.53E-09	3.53E-09	1.94E-09	3.41E-08	9.44E-10	1.26E-08	1.57E-09	1.57E-09	7.78E-10	1.75E-08
184	258429.6	4085599.72	1.17E-08	1.57E-07	2.32E-08	2.32E-08	1.29E-08	2.28E-07	1.78E-09	2.39E-08	3.62E-09	3.62E-09	1.99E-09	3.49E-08	9.67E-10	1.29E-08	1.61E-09	1.61E-09	7.97E-10	1.79E-08
185	258408.09	4085609.67	1.20E-08	1.60E-07	2.37E-08	2.37E-08	1.32E-08	2.33E-07	1.82E-09	2.44E-08	3.71E-09	3.71E-09	2.04E-09	3.57E-08	9.90E-10	1.32E-08	1.65E-09	1.65E-09	8.16E-10	1.83E-08
186	258864.25	4085105.52	1.36E-08	1.82E-07	2.69E-08	2.69E-08	1.50E-08	2.64E-07	2.07E-09	2.77E-08	4.20E-09	4.20E-09	2.31E-09	4.05E-08	1.12E-09	1.50E-08	1.87E-09	1.87E-09	9.25E-10	2.08E-08
187	258863.52	4085080.77	1.44E-08	1.92E-07	2.84E-08	2.84E-08	1.59E-08	2.79E-07	2.18E-09	2.93E-08	4.44E-09	4.44E-09	2.44E-09	4.28E-08	1.19E-09	1.58E-08	1.98E-09	1.98E-09	9.78E-10	2.20E-08
188	258862.8	4085056.01	1.52E-08	2.03E-07	3.01E-08	3.01E-08	1.68E-08	2.96E-07	2.31E-09	3.10E-08	4.70E-09	4.70E-09	2.58E-09	4.53E-08	1.25E-09	1.68E-08	2.09E-09	2.09E-09	1.03E-09	2.32E-08
189	258862.08	4085031.26	1.61E-08	2.16E-07	3.19E-08	3.19E-08	1.78E-08	3.13E-07	2.45E-09	3.28E-08	4.98E-09	4.98E-09	2.74E-09	4.80E-08	1.33E-09	1.78E-08	2.22E-09	2.22E-09	1.10E-09	2.46E-08
190	258861.36	4085006.5	1.71E-08	2.29E-07	3.38E-08	3.38E-08	1.89E-08	3.32E-07	2.60E-09	3.48E-08	5.28E-09	5.28E-09	2.90E-09	5.09E-08	1.41E-09	1.89E-08	2.35E-09	2.35E-09	1.16E-09	2.61E-08
191	258860.63	4084981.74	1.82E-08	2.43E-07	3.59E-08	3.59E-08	2.00E-08	3.53E-07	2.76E-09	3.70E-08	5.61E-09	5.61E-09	3.09E-09	5.41E-08	1.50E-09	2.00E-08	2.50E-09	2.50E-09	1.24E-09	2.78E-08
192	258859.91	4084956.99	1.93E-08	2.58E-07	3.82E-08	3.82E-08	2.13E-08	3.75E-07	2.93E-09	3.93E-08	5.97E-09	5.97E-09	3.28E-09	5.75E-08	1.59E-09	2.13E-08	2.65E-09	2.65E-09	1.31E-09	2.95E-08
193	258859.19	4084932.23	2.06E-08	2.75E-07	4.06E-08	4.06E-08	2.27E-08	3.99E-07	3.12E-09	4.18E-08	6.34E-09	6.34E-09	3.49E-09	6.11E-08	1.69E-09	2.26E-08	2.82E-09	2.82E-09	1.40E-09	3.14E-08
194	258858.47	4084907.47	2.18E-08	2.92E-07	4.31E-08	4.31E-08	2.40E-08	4.24E-07	3.31E-09	4.44E-08	6.74E-09	6.74E-09	3.70E-09	6.49E-08	1.80E-09	2.40E-08	3.00E-09	3.00E-09	1.48E-09	3.33E-08
195	258955.77	4085125.02	1.05E-08	1.40E-07	2.07E-08	2.07E-08	1.15E-08	2.03E-07	1.59E-09	2.13E-08	3.23E-09	3.23E-09	1.78E-09	3.11E-08	8.63E-10	1.15E-08	1.44E-09	1.44E-09	7.11E-10	1.60E-08
196	258947.34	4085147.44	1.02E-08	1.37E-07	2.03E-08	2.03E-08	1.13E-08	1.99E-07	1.56E-09	2.09E-08	3.16E-09	3.16E-09	1.74E-09	3.05E-08	8.45E-10	1.13E-08	1.41E-09	1.41E-09	6.96E-10	1.56E-08
197	258938.91	4085169.86	1.00E-08	1.34E-07	1.98E-08	1.98E-08	1.10E-08	1.94E-07	1.52E-09	2.04E-08	3.09E-09	3.09E-09	1.70E-09	2.98E-08	8.25E-10	1.10E-08	1.37E-09	1.37E-09	6.80E-10	1.53E-08
198	258930.48	4085192.27	9.76E-09	1.30E-07	1.93E-08	1.93E-08	1.07E-08	1.89E-07	1.48E-09	1.99E-08	3.01E-09	3.01E-09	1.66E-09	2.90E-08	8.04E-10	1.07E-08	1.34E-09	1.34E-09	6.63E-10	1.49E-08
199	258922.05	4085214.69	9.49E-09	1.27E-07	1.88E-08	1.88E-08	1.05E-08	1.84E-07	1.44E-09	1.93E-08	2.93E-09	2.93E-09	1.61E-09	2.82E-08	7.82E-10	1.05E-08	1.30E-09	1.30E-09	6.45E-10	1.45E-08
200	258913.62	4085237.1	9.23E-09	1.23E-07	1.82E-08	1.82E-08	1.02E-08	1.79E-07	1.40E-09	1.88E-08	2.85E-09	2.85E-09	1.57E-09	2.74E-08	7.61E-10	1.02E-08	1.27E-09	1.27E-09	6.27E-10	1.41E-08
201	258905.19	4085259.52	8.97E-09	1.20E-07	1.77E-08	1.77E-08	9.88E-09	1.74E-07	1.36E-09	1.82E-08	2.77E-09	2.77E-09	1.52E-09	2.67E-08	7.39E-10	9.87E-09	1.23E-09	1.23E-09	6.09E-10	1.37E-08
202	258896.76	4085281.94	8.69E-09	1.16E-07	1.72E-08	1.72E-08	9.58E-09	1.69E-07	1.32E-09	1.77E-08	2.68E-09	2.68E-09	1.47E-09	2.58E-08	7.16E-10	9.57E-09	1.19E-09	1.19E-09	5.91E-10	1.33E-08
203	258888.32	4085304.35	8.42E-09	1.12E-07	1.66E-08	1.66E-08	9.28E-09	1.63E-07	1.28E-09	1.71E-08	2.60E-09	2.60E-09	1.43E-09	2.50E-08	6.94E-10	9.27E-09	1.16E-09	1.16E-09	5.72E-10	1.29E-08
204	258879.89	4085326.77	8.19E-09	1.09E-07	1.62E-08	1.62E-08	9.03E-09	1.59E-07	1.24E-09	1.67E-08	2.53E-09	2.53E-09	1.39E-09	2.44E-08	6.75E-10	9.02E-09	1.12E-09	1.12E-09	5.57E-10	1.25E-08
205	258871.46	4085349.18	7.97E-09	1.06E-07	1.58E-08	1.58E-08	8.78E-09	1.55E-07	1.21E-09	1.62E-08	2.46E-09	2.46E-09	1.35E-09	2.37E-08	6.57E-10	8.78E-09	1.09E-09	1.09E-09	5.42E-10	1.22E-08
206	258863.03	4085371.6	7.75E-09	1.04E-07	1.53E-08	1.53E-08	8.54E-09	1.50E-07	1.18E-09	1.58E-08	2.39E-09	2.39E-09	1.31E-09	2.30E-08	6.39E-10	8.53E-09	1.06E-09	1.06E-09	5.27E-10	1.18E-08
207	258854.6	4085394.02	7.54E-09	1.01E-07	1.49E-08	1.49E-08	8.30E-09	1.46E-07	1.14E-09	1.53E-08	2.33E-09	2.33E-09	1.28E-09	2.24E-08	6.21E-10	8.30E-09	1.03E-09	1.03E-09	5.12E-10	1.15E-08
208	258846.17	4085416.43	7.33E-09	9.79E-08	1.45E-08	1.45E-08	8.07E-09	1.42E-07	1.11E-09	1.49E-08	2.26E-09	2.26E-09	1.24E-09	2.18E-08	6.04E-10	8.07E-09	1.01E-09	1.01E-09	4.98E-10	1.12E-08
209	258837.74	4085438.85	7.12E-09	9.52E-08	1.41E-08	1.41E-08	7.85E-09	1.38E-07	1.08E-09	1.45E-08	2.20E-09	2.20E-09	1.21E-09	2.12E-08	5.87E-10	7.84E-09	9.78E-10	9.78E-10	4.84E-10	1.09E-08
210	258829.31	4085461.26	6.93E-09	9.26E-08	1.37E-08	1.37E-08	7.64E-09	1.35E-07	1.05E-09	1.41E-08	2.14E-09	2.14E-09	1.18E-09	2.06E-08	5.72E-10	7.63E-09	9.52E-10	9.52E-10	4.71E-10	1.06E-08
211	258820.88	4085483.68	6.75E-09	9.02E-08	1.33E-08	1.33E-08	7.44E-09	1.31E-07	1.02E-09	1.37E-08	2.08E-09	2.08E-09	1.15E-09	2.01E-08	5.57E-10	7.44E-09	9.27E-10	9.27E-10	4.59E-10	1.03E-08
212	258812.44	4085506.1	6.59E-09	8.80E-08	1.30E-08	1.30E-08	7.26E-09	1.28E-07	9.99E-10	1.34E-08	2.03E-09	2.03E-09	1.12E-09	1.96E-08	5.43E-10	7.25E-09	9.04E-10	9.04E-10	4.48E-10	1.00E-08
213	258782.28	4085538.57	6.55E-09	8.75E-08	1.29E-08	1.29E-08	7.21E-09	1.27E-07	9.94E-10	1.33E-08	2.02E-09	2.02E-09	1.11E-09	1.95E-08	5.40E-10	7.21E-09	8.99E-10	8.99E-10	4.45E-10	9.99E-09
214	258760.54	4085548.62	6.67E-09	8.91E-08	1.32E-08	1.32E-08	7.35E-09	1.30E-07	1.01E-09	1.36E-08	2.06E-09	2.06E-09	1.13E-09	1.98E-08	5.50E-10	7.35E-09	9.16E-10	9.16E-10	4.54E-10	1.02E-08
215	258738.8	4085558.67	6.81E-09	9.09E-08	1.35E-08	1.35E-08	7.50E-09	1.32E-07	1.03E-09	1.39E-08	2.10E-09	2.10E-09	1.15E-09	2.02E-08	5.61E-10	7.50E-09	9.35E-10	9.35E-10	4.63E-10	1.04E-08
216	258717.06	4085568.73	6.96E-09	9.29E-08	1.37E-08	1.37E-08	7.66E-09	1.35E-07	1.06E-09	1.42E-08	2.15E-09	2.15E-09	1.18E-09	2.07E-08	5.73E-10	7.66E-09	9.55E-10	9.55E-10	4.73E-10	1.06E-08
217	258695.33	4085578.78	7.12E-09	9.51E-08	1.41E-08	1.41E-08	7.84E-09	1.38E-07	1.08E-09	1.45E-08	2.20E-09	2.20E-09	1.21E-09	2.12E-08	5.87E-10	7.84E-09	9.77E-10	9.77E-10	4.84E-10	1.09E-08
218	258673.59	4085588.83	7.30E-09	9.76E-08	1.44E-08	1.44E-08	8.05E-09	1.42E-07	1.11E-09	1.49E-08	2.25E-09	2.25E-09	1.24E-09	2.17E-08	6.02E-10	8.04E-09	1.00E-09	1.00E-09	4.96E-10	1.11E-08
219	258651.85	4085598.88	7.50E-09	1.00E-07	1.48E-08	1.48E-08	8.27E-09	1.46E-07	1.14E-09	1.53E-08	2.32E-09	2.32E-09	1.27E-09	2.23E-08	6.19E-10	8.26E-09	1.03E-09	1.03E-09	5.10E-10	1.15E-08
220	258630.12	4085608.94	7.71E-09	1.03E-07	1.52E-08	1.52E-08	8.49E-09	1.50E-07	1.17E-09	1.57E-08	2.38E-09	2.38E-09	1.31E-09	2.29E-08	6.36E-10	8.49E-09	1.06E-09	1.06E-09	5.24E-10	1.18E-08
221	258608.38	4085618.99	7.91E-09	1.06E-07	1.56E-08	1.56E-08	8.72E-09	1.54E-07	1.20E-09	1.61E-08	2.44E-09	2.44E-09	1.34E-09	2.35E-08	6.52E-10	8.71E-09	1.09E-09	1.09E-09	5.38E-10	1.21E-08
222	258586.64	4085629.04	8.10E-09	1.08E-07	1.60E-08	1.60E-08	8.92E-09	1.57E-07	1.23E-09	1.65E-08	2.50E-09	2.50E-09	1.37E-09	2.41E-08	6.68E-10	8.92E-09	1.11E-09	1.11E-09	5.50E-10	1.24E-08
223	258564.91	4085639.1	8.28E-09	1.11E-07	1.64E-08	1.64E-08	9.13E-09	1.61E-07	1.26E-09	1.69E-08	2.56E-09	2.56E-09	1.41E-09	2.46E-08	6.83E-10	9.12E-09	1.14E-09	1.14E-09	5.63E-10	1.26E-08
224	258543.17	4085649.15	8.44E-09	1.13E-07	1.67E-08	1.67E-08	9.30E-09	1.64E-07	1.28E-09	1.72E-08	2.61E-09	2.61E-09	1.43E-09	2.51E-08	6.96E-10	9.30E-09	1.16E-09	1.16E-09	5.74E-10	1.29E-08
225	258521.43	4085659.2	8.57E-09	1.15E-07	1.69E-08	1.69E-08	9.45E-09	1.66E-07	1.30E-09	1.74E-08	2.65E-09	2.65E-09	1.45E-09	2.55E-08	7.07E-10	9.44E-09	1.18E-09	1.18E-09	5.83E-10	1.31E-08
226	258499.69	4085669.26	8.76E-09	1.17E-07	1.73E-08	1.73E-08	9.65E-09	1.70E-07	1.33E-09	1.78E-08	2.70E-09	2.70E-09	1.49E-09	2.60E-08	7.22E-10	9.64E-09	1.20E-09	1.20E-09	5.95E-10	1.34E-08
227	258477.96	4085679.31	8.93E-09	1.19E-07	1.76E-08	1.76E-08	9.84E-09	1.73E-07	1.35E-09	1.82E-08	2.75E-09	2.75E-09	1.51E-09	2.65E-08	7.36E-10	9.83E-09	1.23E-09	1.23E-09	6.07E-10	1.36E-08
228	258456.22	4085689.36	9.10E-09	1.22E-07	1.80E-08	1.80E-08	1.00E-08	1.77E-07	1.38E-09	1.85E-08	2.81E-09	2.81E-09	1.54E-09	2.70E-08	7.50E-10	1.00E-08	1.25E-09	1.25E-09	6.18E-10	1.39E-08
229	258434.48	4085699.42	9.30E-09	1.24E-07	1.84E-08	1.84E-08	1.02E-08	1.81E-07	1.41E-09	1.89E-08	2.87E-09	2.87E-09	1.58E-09	2.77E-08	7.67E-10	1.02E-08	1.28E-09	1.28E-09	6.32E-10	1.42E-08
230	258412.75	4085709.47	9.52E-09	1.27E-07	1.88E-08	1.88E-08	1.05E-08	1.85E-07	1.44E-09	1.94E-08	2.94E-09	2.94E-09	1.61E-09	2.83E-08	7.84E-10	1.05E-08	1.31E-09	1.31E-09	6.47E-10	1.45E-08
231	258964.2	4085102.61	1.07E-08	1.43E-07	2.11E-08	2.11E-08	1.18E-08	2.07E-07	1.62E-09	2.17E-08	3.29E-09	3.29E-09	1.81E-09	3.17E-08	8.80E-10	1.18E-08	1.47E-09	1.47E-09	7.25E-10	1.63E-08
232	258963.48	4085077.85	1.12E-08	1.49E-07	2.21E-08	2.21E-08	1.23E-08	2.17E-07	1.69E-09	2.27E-08	3.44E-09	3.44E-09	1.89E-09	3.32E-08	9.20E-10	1.23E-08	1.53E-09	1.53E-09	7.59E-10	1.70E-08

233	258962.76	4085053.09	1.17E-08	1.56E-07	2.31E-08	2.31E-08	1.29E-08	2.27E-07	1.77E-09	2.38E-08	3.61E-09	3.61E-09	1.98E-09	3.48E-08	9.64E-10	1.29E-08	1.60E-09	1.60E-09	7.94E-10	1.78E-08
234	258962.04	4085028.34	1.23E-08	1.64E-07	2.42E-08	2.42E-08	1.35E-08	2.38E-07	1.86E-09	2.50E-08	3.79E-09	3.79E-09	2.08E-09	3.65E-08	1.01E-09	1.35E-08	1.68E-09	1.68E-09	8.34E-10	1.87E-08
235	258961.31	4085003.58	1.29E-08	1.72E-07	2.55E-08	2.55E-08	1.42E-08	2.50E-07	1.96E-09	2.63E-08	3.98E-09	3.98E-09	2.19E-09	3.84E-08	1.06E-09	1.42E-08	1.77E-09	1.77E-09	8.77E-10	1.97E-08
236	258960.59	4084978.83	1.36E-08	1.81E-07	2.68E-08	2.68E-08	1.50E-08	2.64E-07	2.06E-09	2.76E-08	4.19E-09	4.19E-09	2.30E-09	4.04E-08	1.12E-09	1.50E-08	1.86E-09	1.86E-09	9.23E-10	2.07E-08
237	258959.87	4084954.07	1.43E-08	1.91E-07	2.83E-08	2.83E-08	1.58E-08	2.78E-07	2.17E-09	2.91E-08	4.42E-09	4.42E-09	2.43E-09	4.26E-08	1.18E-09	1.58E-08	1.97E-09	1.97E-09	9.73E-10	2.19E-08
238	258959.15	4084929.31	1.51E-08	2.02E-07	2.99E-08	2.99E-08	1.66E-08	2.93E-07	2.29E-09	3.08E-08	4.66E-09	4.66E-09	2.56E-09	4.49E-08	1.25E-09	1.66E-08	2.07E-09	2.07E-09	1.03E-09	2.31E-08
239	258958.42	4084904.56	1.59E-08	2.13E-07	3.15E-08	3.15E-08	1.76E-08	3.09E-07	2.42E-09	3.24E-08	4.92E-09	4.92E-09	2.70E-09	4.74E-08	1.31E-09	1.76E-08	2.19E-09	2.19E-09	1.08E-09	2.43E-08
240	259055.67	4085122.28	8.54E-09	1.14E-07	1.69E-08	1.69E-08	9.40E-09	1.66E-07	1.30E-09	1.74E-08	2.63E-09	2.63E-09	1.45E-09	2.54E-08	7.04E-10	9.40E-09	1.17E-09	1.17E-09	5.80E-10	1.30E-08
241	259047.17	4085144.86	8.39E-09	1.12E-07	1.66E-08	1.66E-08	9.25E-09	1.63E-07	1.27E-09	1.71E-08	2.59E-09	2.59E-09	1.42E-09	2.50E-08	6.92E-10	9.24E-09	1.15E-09	1.15E-09	5.70E-10	1.28E-08
242	259038.68	4085167.45	8.23E-09	1.10E-07	1.63E-08	1.63E-08	9.07E-09	1.60E-07	1.25E-09	1.68E-08	2.54E-09	2.54E-09	1.40E-09	2.45E-08	6.79E-10	9.07E-09	1.13E-09	1.13E-09	5.59E-10	1.26E-08
243	259030.18	4085190.03	8.04E-09	1.07E-07	1.59E-08	1.59E-08	8.86E-09	1.56E-07	1.22E-09	1.64E-08	2.48E-09	2.48E-09	1.36E-09	2.39E-08	6.63E-10	8.85E-09	1.10E-09	1.10E-09	5.46E-10	1.23E-08
244	259021.69	4085212.62	7.83E-09	1.05E-07	1.55E-08	1.55E-08	8.62E-09	1.52E-07	1.19E-09	1.59E-08	2.41E-09	2.41E-09	1.33E-09	2.33E-08	6.45E-10	8.62E-09	1.07E-09	1.07E-09	5.32E-10	1.19E-08
245	259013.19	4085235.21	7.62E-09	1.02E-07	1.51E-08	1.51E-08	8.40E-09	1.48E-07	1.16E-09	1.55E-08	2.35E-09	2.35E-09	1.29E-09	2.27E-08	6.28E-10	8.39E-09	1.05E-09	1.05E-09	5.18E-10	1.16E-08
246	259004.7	4085257.79	7.42E-09	9.92E-08	1.47E-08	1.47E-08	8.18E-09	1.44E-07	1.13E-09	1.51E-08	2.29E-09	2.29E-09	1.26E-09	2.21E-08	6.12E-10	8.17E-09	1.02E-09	1.02E-09	5.04E-10	1.13E-08
247	258996.2	4085280.38	7.23E-09	9.66E-08	1.43E-08	1.43E-08	7.97E-09	1.40E-07	1.10E-09	1.47E-08	2.23E-09	2.23E-09	1.23E-09	2.15E-08	5.96E-10	7.96E-09	9.93E-10	9.93E-10	4.92E-10	1.10E-08
248	258987.71	4085302.96	7.05E-09	9.42E-08	1.39E-08	1.39E-08	7.77E-09	1.37E-07	1.07E-09	1.44E-08	2.18E-09	2.18E-09	1.20E-09	2.10E-08	5.81E-10	7.77E-09	9.68E-10	9.68E-10	4.79E-10	1.08E-08
249	258979.21	4085325.55	6.88E-09	9.19E-08	1.36E-08	1.36E-08	7.58E-09	1.34E-07	1.04E-09	1.40E-08	2.12E-09	2.12E-09	1.17E-09	2.05E-08	5.67E-10	7.58E-09	9.45E-10	9.45E-10	4.68E-10	1.05E-08
250	258970.72	4085348.13	6.72E-09	8.98E-08	1.33E-08	1.33E-08	7.41E-09	1.31E-07	1.02E-09	1.37E-08	2.07E-09	2.07E-09	1.14E-09	2.00E-08	5.54E-10	7.40E-09	9.23E-10	9.23E-10	4.57E-10	1.03E-08
251	258962.22	4085370.72	6.57E-09	8.78E-08	1.30E-08	1.30E-08	7.24E-09	1.28E-07	9.97E-10	1.34E-08	2.03E-09	2.03E-09	1.11E-09	1.95E-08	5.42E-10	7.23E-09	9.02E-10	9.02E-10	4.46E-10	1.00E-08
252	258953.73	4085393.31	6.42E-09	8.57E-08	1.27E-08	1.27E-08	7.07E-09	1.25E-07	9.74E-10	1.31E-08	1.98E-09	1.98E-09	1.09E-09	1.91E-08	5.29E-10	7.07E-09	8.81E-10	8.81E-10	4.36E-10	9.79E-09
253	258945.23	4085415.89	6.27E-09	8.37E-08	1.24E-08	1.24E-08	6.91E-09	1.22E-07	9.52E-10	1.28E-08	1.93E-09	1.93E-09	1.06E-09	1.86E-08	5.17E-10	6.90E-09	8.61E-10	8.61E-10	4.26E-10	9.57E-09
254	258936.74	4085438.48	6.12E-09	8.18E-08	1.21E-08	1.21E-08	6.74E-09	1.19E-07	9.29E-10	1.25E-08	1.89E-09	1.89E-09	1.04E-09	1.82E-08	5.05E-10	6.74E-09	8.40E-10	8.40E-10	4.16E-10	9.34E-09
255	258928.24	4085461.06	5.97E-09	7.98E-08	1.18E-08	1.18E-08	6.58E-09	1.16E-07	9.07E-10	1.22E-08	1.84E-09	1.84E-09	1.01E-09	1.78E-08	4.92E-10	6.58E-09	8.20E-10	8.20E-10	4.06E-10	9.12E-09
256	258919.75	4085483.65	5.83E-09	7.79E-08	1.15E-08	1.15E-08	6.42E-09	1.13E-07	8.85E-10	1.19E-08	1.80E-09	1.80E-09	9.89E-10	1.73E-08	4.81E-10	6.42E-09	8.00E-10	8.00E-10	3.96E-10	8.90E-09
257	258911.25	4085506.24	5.69E-09	7.60E-08	1.12E-08	1.12E-08	6.27E-09	1.10E-07	8.64E-10	1.16E-08	1.76E-09	1.76E-09	9.65E-10	1.69E-08	4.69E-10	6.27E-09	7.81E-10	7.81E-10	3.87E-10	8.68E-09
258	258902.76	4085528.82	5.56E-09	7.42E-08	1.10E-08	1.10E-08	6.12E-09	1.08E-07	8.44E-10	1.13E-08	1.72E-09	1.72E-09	9.43E-10	1.65E-08	4.58E-10	6.12E-09	7.63E-10	7.63E-10	3.78E-10	8.48E-09
259	258894.26	4085551.41	5.43E-09	7.26E-08	1.07E-08	1.07E-08	5.99E-09	1.05E-07	8.25E-10	1.11E-08	1.68E-09	1.68E-09	9.22E-10	1.62E-08	4.48E-10	5.98E-09	7.46E-10	7.46E-10	3.69E-10	8.29E-09
260	258885.77	4085573.99	5.32E-09	7.10E-08	1.05E-08	1.05E-08	5.86E-09	1.03E-07	8.07E-10	1.08E-08	1.64E-09	1.64E-09	9.02E-10	1.58E-08	4.38E-10	5.86E-09	7.30E-10	7.30E-10	3.61E-10	8.12E-09
261	258855.37	4085606.71	5.29E-09	7.07E-08	1.05E-08	1.05E-08	5.83E-09	1.03E-07	8.03E-10	1.08E-08	1.63E-09	1.63E-09	8.98E-10	1.57E-08	4.36E-10	5.83E-09	7.27E-10	7.27E-10	3.60E-10	8.08E-09
262	258833.47	4085616.84	5.38E-09	7.18E-08	1.06E-08	1.06E-08	5.92E-09	1.04E-07	8.16E-10	1.09E-08	1.66E-09	1.66E-09	9.12E-10	1.60E-08	4.43E-10	5.92E-09	7.38E-10	7.38E-10	3.65E-10	8.21E-09
263	258811.57	4085626.97	5.47E-09	7.31E-08	1.08E-08	1.08E-08	6.03E-09	1.06E-07	8.30E-10	1.11E-08	1.69E-09	1.69E-09	9.28E-10	1.63E-08	4.51E-10	6.02E-09	7.51E-10	7.51E-10	3.72E-10	8.35E-09
264	258789.66	4085637.1	5.57E-09	7.44E-08	1.10E-08	1.10E-08	6.13E-09	1.08E-07	8.45E-10	1.13E-08	1.72E-09	1.72E-09	9.45E-10	1.66E-08	4.59E-10	6.13E-09	7.64E-10	7.64E-10	3.78E-10	8.50E-09
265	258767.76	4085647.23	5.67E-09	7.58E-08	1.12E-08	1.12E-08	6.25E-09	1.10E-07	8.61E-10	1.15E-08	1.75E-09	1.75E-09	9.63E-10	1.69E-08	4.68E-10	6.25E-09	7.79E-10	7.79E-10	3.86E-10	8.66E-09
266	258745.86	4085657.36	5.80E-09	7.74E-08	1.15E-08	1.15E-08	6.39E-09	1.13E-07	8.80E-10	1.18E-08	1.79E-09	1.79E-09	9.83E-10	1.72E-08	4.78E-10	6.38E-09	7.96E-10	7.96E-10	3.94E-10	8.84E-09
267	258723.96	4085667.49	5.93E-09	7.92E-08	1.17E-08	1.17E-08	6.54E-09	1.15E-07	9.00E-10	1.21E-08	1.83E-09	1.83E-09	1.01E-09	1.76E-08	4.89E-10	6.53E-09	8.14E-10	8.14E-10	4.03E-10	9.05E-09
268	258702.06	4085677.61	6.08E-09	8.12E-08	1.20E-08	1.20E-08	6.70E-09	1.18E-07	9.23E-10	1.24E-08	1.88E-09	1.88E-09	1.03E-09	1.81E-08	5.01E-10	6.70E-09	8.35E-10	8.35E-10	4.13E-10	9.28E-09
269	258680.16	4085687.74	6.24E-09	8.34E-08	1.23E-08	1.23E-08	6.88E-09	1.21E-07	9.47E-10	1.27E-08	1.93E-09	1.93E-09	1.06E-09	1.86E-08	5.14E-10	6.87E-09	8.57E-10	8.57E-10	4.24E-10	9.52E-09
270	258658.25	4085697.87	6.40E-09	8.55E-08	1.26E-08	1.26E-08	7.05E-09	1.24E-07	9.71E-10	1.30E-08	1.97E-09	1.97E-09	1.09E-09	1.90E-08	5.28E-10	7.05E-09	8.79E-10	8.79E-10	4.35E-10	9.77E-09
271	258636.35	4085708	6.55E-09	8.75E-08	1.29E-08	1.29E-08	7.22E-09	1.27E-07	9.94E-10	1.33E-08	2.02E-09	2.02E-09	1.11E-09	1.95E-08	5.40E-10	7.21E-09	8.99E-10	8.99E-10	4.45E-10	1.00E-08
272	258614.45	4085718.13	6.68E-09	8.93E-08	1.32E-08	1.32E-08	7.36E-09	1.30E-07	1.01E-09	1.36E-08	2.06E-09	2.06E-09	1.13E-09	1.99E-08	5.51E-10	7.36E-09	9.18E-10	9.18E-10	4.54E-10	1.02E-08
273	258592.55	4085728.26	6.81E-09	9.09E-08	1.35E-08	1.35E-08	7.50E-09	1.32E-07	1.03E-09	1.39E-08	2.10E-09	2.10E-09	1.15E-09	2.02E-08	5.61E-10	7.49E-09	9.34E-10	9.34E-10	4.63E-10	1.04E-08
274	258570.65	4085738.39	6.92E-09	9.24E-08	1.37E-08	1.37E-08	7.62E-09	1.34E-07	1.05E-09	1.41E-08	2.14E-09	2.14E-09	1.17E-09	2.06E-08	5.70E-10	7.62E-09	9.50E-10	9.50E-10	4.70E-10	1.06E-08
275	258548.75	4085748.52	7.03E-09	9.39E-08	1.39E-08	1.39E-08	7.75E-09	1.36E-07	1.07E-09	1.43E-08	2.17E-09	2.17E-09	1.19E-09	2.09E-08	5.80E-10	7.74E-09	9.65E-10	9.65E-10	4.78E-10	1.07E-08
276	258526.84	4085758.65	7.15E-09	9.55E-08	1.41E-08	1.41E-08	7.88E-09	1.39E-07	1.09E-09	1.45E-08	2.21E-09	2.21E-09	1.21E-09	2.13E-08	5.89E-10	7.87E-09	9.82E-10	9.82E-10	4.86E-10	1.09E-08
277	258504.94	4085768.78	7.28E-09	9.72E-08	1.44E-08	1.44E-08	8.02E-09	1.41E-07	1.10E-09	1.48E-08	2.25E-09	2.25E-09	1.23E-09	2.16E-08	6.00E-10	8.01E-09	9.99E-10	9.99E-10	4.95E-10	1.11E-08
278	258483.04	4085778.91	7.42E-09	9.91E-08	1.47E-08	1.47E-08	8.18E-09	1.44E-07	1.13E-09	1.51E-08	2.29E-09	2.29E-09	1.26E-09	2.21E-08	6.12E-10	8.17E-09	1.02E-09	1.02E-09	5.04E-10	1.13E-08
279	258461.14	4085789.04	7.57E-09	1.01E-07	1.50E-08	1.50E-08	8.34E-09	1.47E-07	1.15E-09	1.54E-08	2.34E-09	2.34E-09	1.28E-09	2.25E-08	6.24E-10	8.34E-09	1.04E-09	1.04E-09	5.15E-10	1.16E-08
280	258439.24	4085799.17	7.73E-09	1.03E-07	1.53E-08	1.53E-08	8.52E-09	1.50E-07	1.17E-09	1.57E-08	2.39E-09	2.39E-09	1.31E-09	2.30E-08	6.38E-10	8.52E-09	1.06E-09	1.06E-09	5.26E-10	1.18E-08
281	258417.33	4085809.3	7.90E-09	1.06E-07	1.56E-08	1.56E-08	8.70E-09	1.53E-07	1.20E-09	1.61E-08	2.44E-09	2.44E-09	1.34E-09	2.35E-08	6.51E-10	8.70E-09	1.08E-09	1.08E-09	5.37E-10	1.21E-08
282	259064.16	4085099.69	8.67E-09	1.16E-07	1.71E-08	1.71E-08	9.55E-09	1.68E-07	1.32E-09	1.76E-08	2.67E-09	2.67E-09	1.47E-09	2.58E-08	7.14E-10	9.54E-09	1.19E-09	1.19E-09	5.89E-10	1.32E-08
283	259063.44	4085074.93	8.99E-09	1.20E-07	1.78E-08	1.78E-08	9.91E-09	1.75E-07	1.36E-09	1.83E-08	2.77E-09	2.77E-09	1.53E-09	2.67E-08	7.41E-10	9.90E-09	1.23E-09	1.23E-09	6.11E-10	1.37E-08
284	259062.72	4085050.18	9.35E-09	1.25E-07	1.85E-08	1.85E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.88E-09	2.88E-09	1.59E-09	2.78E-08	7.70E-10	1.03E-08	1.28E-09	1.28E-09	6.35E-10	1.43E-08
285	259061.99	4085025.42	9.74E-09	1.30E-07	1.92E-08	1.92E-08	1.07E-08	1.89E-07	1.48E-09	1.98E-08	3.00E-09	3.00E-09	1.65E-09	2.90E-08	8.03E-10	1.07E-08	1.34E-09	1.34E-09	6.62E-10	1.49E-08
286	259061.27	4085000.66	1.02E-08	1.36E-07	2.01E-08	2.01E-08	1.12E-08	1.97E-07	1.54E-09	2.07E-08	3.14E-09	3.14E-09	1.73E-09	3.02E-08	8.38E-10	1.12E-08	1.40E-09	1.40E-09	6.91E-10	1.55E-08
287	259060.55	4084975.91	1.06E-08	1.42E-07	2.10E-08	2.10E-08	1.17E-08	2.07E-07	1.62E-09	2.17E-08	3.28E-09	3.28E-09	1.81E-09	3.17E-08	8.77E-10	1.17E-08	1.46E-09	1.46E-09	7.23E-10	1.62E-08
288	259059.83	4084951.15	1.12E-08	1.49E-07	2.20E-08	2.20E-08	1.23E-08	2.17E-07	1.69E-09	2.27E-08	3.44E-09	3.44E-09	1.89E-09	3.32E-08	9.19E-10	1.23E-08	1.53E-09	1.53E-09	7.58E-10	1.70E-08
289	259059.1	4084926.4	1.17E-08	1.56E-07	2.31E-08	2.31E-08	1.29E-08	2.27E-07	1.77E-09	2.38E-08	3.61E-09	3.61E-09	1.98E-09	3.48E-08	9.64E-10	1.29E-08	1.61E-09	1.61E-09	7.95E-10	1.78E-08
290	259058.38	4084901.64	1.23E-08	1.64E-07	2.42E-08	2.42E-08	1.35E-08	2.38E-07	1.86E-09	2.50E-08	3.78E-09	3.78E-09	2.08E-09	3.65E-08	1.01E-09	1.35E-08	1.68E-09	1.68E-09	8.33E-10	1.87E-08
291	259255.5	4085116.67	6.11E-09	8.16E-08	1.21E-08	1.21E-08	6.73E-09	1.19E-07	9.28E-10	1.24E-08	1.89E-09	1.89E-09	1.04E-09	1.82E-08	5.04E-10	6.73E-09	8.39E-10	8.39E-10	4.15E-10	9.33E-09
292	259246.91	4085139.49	6.05E-09	8.08E-08	1.20E-08	1.20E-08	6.67E-09	1.17E-07	9.19E-10	1.23E-08	1.87E-09	1.87E-09	1.03E-09	1.80E-08	4.99E-10	6.66E-09	8.31E-10	8.31E-10	4.11E-10	9.24E-09
293	259238.33	4085162.3	5.98E-09	7.99E-08	1.18E-08	1.18E-08	6.59E-09	1.16E-07	9.08E-10	1.22E-08	1.85E-09	1.85E-09	1.01E-09	1.78E-08	4.93E-10	6.59E-09	8.21E-10	8.21E-10	4.06E-10	9.13E-09
294	259229.75	4085185.12	5.89E-09	7.87E-08	1.16E-08	1.16E-08	6.49E-09	1.14E-07	8.94E-10	1.20E-08	1.82E-09	1.82E-09	9.99E-10	1.75E-08	4.85E-10	6.48E-09	8.08E-10	8.08E-10	4.00E-10	8.99E-09
295	259221.17	4085207.94	5.76E-09	7.70E-08	1.14E-08	1.14E-08	6.35E-09	1.12E-07	8.75E-10	1.17E-08	1.78E-09	1.78E-09	9.78E-10	1.71E-08	4.75E-10	6.35E-09	7.91E-10	7.91E-10	3.92E-10	8.80E-09
296	259212.59	4085230.75	5.65E-09	7.54E-08	1.12E-08	1.12E-08	6.22E-09	1.10E-07	8.57E-10	1.15E-08	1.74E-09	1.74E-09	9.58E-10	1.68E-08	4.65E-10	6.22E-09	7.75E-10	7.75E-10	3.84E-10	8.62E-09
297	259204.01	4085253.57	5.52E-09	7.38E-08	1.09E-08	1.09E-08	6.08E-09	1.07E-07	8.38E-10	1.12E-08	1.70E-09	1.70E-09	9.37E-10	1.64E-08	4.55E-10	6.08E-09	7.58E-10	7.58E-10	3.75E-10	8.43E-09
298	259195.42	4085276.39	5.39E-09	7.21E-08	1.07E-08	1.07E-08	5.94E-09	1.05E-07	8.19E-10	1.10E-08	1.66E-09	1.66E-09	9.15E-10	1.60E-08	4.45E-10	5.94E-09	7.41E-10	7.41E-10	3.67E-10	8.23E-09
299	259186.84	4085299.2	5.27E-09	7.04E-08	1.04E-08	1.04E-08	5.81E-09	1.02E-07	8.00E-10	1.07E-08	1.63E-09	1.63E-09	8.94E-10	1.57E-08	4.34E-10	5.80E-09	7.23E-10	7.23E-10	3.58E-10	8.04E-09
300	259178.26	4085322.02	5.15E-09	6.88E-08	1.02E-08	1.02E-08	5.68E-09	1.00E-07	7.82E-10	1.05E-08	1.59E-09	1.59E-09	8.74E-10	1.53E-08	4.25E-10	5.67E-09	7.07E-10	7.07E-10	3.50E-10	7.86E-09
301	259169.68	4085344.84	5.04E-09	6.73E-08	9.96E-09	9.96E-09	5.55E-09	9.79E-08	7.65E-10	1.03E-08	1.56E-09	1.56E-09	8.55E-10	1.50E-08	4.16E-10	5.55E-09	6.92E-10	6.92E-10	3.43E-10	7.69E-09
302	259161.1	4085367.65	4.94E-09	6.60E-08	9.76E-09	9.76E-09	5.44E-09	9.59E-08	7.50E-10	1.01E-08	1.52E-09	1.52E-09	8.38E-10	1.47E-08	4.07E-10	5.44E-09	6.78E-10	6.78E-10	3.36E-10	7.54E-09
303	259152.52	4085390.47	4.85E-09	6.48E-08	9.58E-09	9.58E-09	5.34E-09	9.41E-08	7.36E-10	9.86E-09	1.50E-09	1.50E-09	8.22E-10	1.44E-08	4.00E-10	5.34E-09	6.66E-10	6.66E-10	3.29E-10	7.40E-09
304	259143.93	4085413.28	4.76E-09	6.36E-08	9.41E-09	9.41E-09	5.25E-09	9.24E-08	7.23E-10	9.69E-09	1.47E-09	1.47E-09	8.08E-10	1.42E-08	3.93E-10	5.24E-09	6.54E-10	6.54E-10	3.24E-10	7.27E-09
305	259135.35	4085436.1	4.68E-09	6.26E-08	9.26E-09	9.26E-09	5.16E-09	9.09E-08	7.11E-10	9.53E-09	1.45E-09	1.45E-09	7.95E-10	1.39E-08	3.86E-10	5.16E-09	6.43E-10	6.43E-10	3.18E-10	7.15E-09
306	259126.77	4085458.92	4.61E-09	6.15E-08	9.10E-09	9.10E-09	5.07E-09	8.94E-08	6.99E-10	9.37E-09	1.42E-09	1.42E-09	7.81E-10	1.37E-08	3.80E-10	5.07E-09	6.32E-10	6.32E-10	3.13E-10	7.03E-09
307	259118.19	4085481.73	4.53E-09	6.05E-08	8.95E-09	8.95E-09	4.99E-09	8.79E-08	6.88E-10	9.22E-09	1.40E-09	1.40E-09	7.69E-10	1.35E-08	3.73E-10	4.99E-09	6.22E-10	6.22E-10	3.08E-10	6.91E-09
308	259109.61	4085504.55	4.45E-09	5.95E-08	8.80E-09	8.80E-09	4.91E-09	8.64E-08	6.76E-10	9.06E-09	1.37E-09	1.37E-09	7.55E-10	1.32E-08	3.67E-10	4.90E-09	6.11E-10	6.11E-10	3.03E-10	6.79E-09
309	259101.02	4085527.37	4.38E-09	5.84E-08	8.65E-09	8.65E-09	4.82E-09	8.49E-08	6.64E-10	8.90E-09	1.35E-09	1.35E-09	7.42E-10	1.30E-08	3.61E-10	4.82E-09	6.01E-10	6.01E-10	2.97E-10	6.68E-09
310	259092.44	4085550.18	4.30E-09	5.74E-08	8.49E-09	8.49E-09	4.74E-09	8.34E-08	6.52E-10	8.75E-09	1.33E-09	1.33E-09	7.29E-10	1.28E-08	3.54E-10	4.73E-09	5.90E-10	5.90E-10	2.92E-10	6.56E-09
311	259083.86	4085573	4.22E-09	5.63E-08	8.33E-09	8.33E-09	4.65E-09	8.19E-08	6.40E-10	8.58E-09	1.30E-09	1.30E-09	7.15E-10	1.25E-08	3.48E-10	4.64E-09	5.79E-10	5.79E-10	2.87E-10	6.44E-09
312	259075.28	4085595.82	4.14E-09	5.53E-08	8.18E-09	8.18E-09	4.56E-09	8.03E-08	6.28E-10	8.42E-09	1.28E-09	1.28E-09	7.02E-10	1.23E-08	3.41E-10	4.55E-09	5.68E-10	5.68E-10	2.81E-10	6.31E-09
313	259066.7	4085618.63	4.06E-09	5.42E-08	8.02E-09	8.02E-09	4.47E-09	7.87E-08	6.16E-10	8.25E-09	1.25E-09	1.25E-09	6.88E-10	1.21E-08	3.34E-10	4.47E-09	5.57E-10	5.57E-10	2.76E-10	6.19E-09
314	259058.12	4085641.45	3.98E-09	5.31E-08	7.86E-09	7.86E-09	4.38E-09	7.72E-08	6.04E-10	8.10E-09	1.23E-09	1.23E-09	6.75E-10	1.18E-08	3.28E-10	4.38E-09	5.46E-10	5.46E-10	2.70E-10	6.07E-09
315	259049.53	4085664.27	3.91E-09	5.22E-08	7.72E-09	7.72E-09	4.30E-09	7.58E-08	5.93E-10	7.95E-09	1.21E-09	1.21E-09	6.63E-10	1.16E-08	3.22E-10	4.30E-09	5.36E-10	5.36E-10	2.65E-10	5.96E-09
316	259040.95	4085687.08	3.84E-09	5.12E-08	7.58E-09	7.58E-09	4.23E-09	7.45E-08	5.82E-10	7.81E-09	1.18E-09	1.18E-09	6.51E-10	1.14E-08	3.16E-10	4.22E-09	5.27E-10	5.27E-10	2.61E-10	5.85E-09
317	259032.37	4085709.9	3.77E-09	5.04E-08	7.46E-09	7.46E-09	4.16E-09	7.32E-08	5.73E-10	7.68E-09	1.16E-09	1.16E-09	6.40E-10	1.12E-08	3.11E-10	4.15E-09	5.18E-10	5.18E-10	2.56E-10	5.76E-09
318	259001.66	4085742.95	3.76E-09	5.02E-08	7.43E-09	7.43E-09	4.14E-09	7.30E-08	5.71E-10	7.65E-09	1.16E-09	1.16E-09	6.38E-10	1.12E-08	3.10E-10	4.14E-09	5.16E-10	5.16E-10	2.56E-10	5.74E-09
319	258979.54	4085753.18	3.81E-09	5.09E-08	7.53E-09	7.53E-09	4.20E-09	7.39E-08	5.78E-10	7.75E-09	1.18E-09	1.18E-09	6.46E-10	1.13E-08	3.14E-10	4.19E-09	5.23E-10	5.23E-10	2.59E-10	5.81E-09
320	258957.41	4085763.41	3.86E-09	5.16E-08	7.63E-09	7.63E-09	4.25E-09	7.49E-08	5.86E-10	7.85E-09	1.19E-09	1.19E-09	6.55E-10	1.15E-08	3.18E-10	4.25E-09	5.30E-10	5.30E-10	2.62E-10	5.89E-09
321	258935.29	4085773.65	3.91E-09	5.23E-08	7.73E-09	7.73E-09	4.31E-09	7.60E-08	5.94E-10	7.96E-09	1.21E-09	1.21E-09	6.64E-10	1.16E-08	3.23E-10	4.31E-09	5.37E-10	5.37E-10	2.66E-10	5.97E-09
322	258913.16	4085783.88	3.97E-09	5.30E-08	7.85E-09	7.85E-09	4.38E-09	7.71E-08	6.03E-10	8.08E-09	1.23E-09	1.23E-09	6.74E-10	1.18E-08	3.27E-10	4.37E-09	5.45E-10	5.45E-10	2.70E-10	6.06E-09
323	258891.04	4085794.11	4.03E-09	5.39E-08	7.97E-09	7.97E-09	4.44E-09	7.83E-08	6.12E-10	8.21E-09	1.24E-09	1.24E-09	6.84E-10	1.20E-08	3.32E-10	4.44E-09	5.54E-10	5.54E-10	2.74E-10	6.15E-09
324	258868.91	4085804.34	4.10E-09	5.48E-08	8.10E-09	8.10E-09	4.52E-09	7.96E-08	6.22E-10	8.34E-09	1.27E-09	1.27E-09	6.95E-10	1.22E-08	3.38E-10	4.51E-09	5.63E-10	5.63E-10	2.79E-10	6.26E-09
325	258846.79	4085814.58	4.17E-09	5.58E-08	8.25E-09	8.25E-09	4.60E-09	8.10E-08	6.33E-10	8.49E-09	1.29E-09	1.29E-09	7.08E-10	1.24E-08	3.44E-10	4.60E-09	5.73E-10	5.73E-10	2.84E-10	6.37E-09
326	258824.66	4085824.81	4.26E-09	5.69E-08	8.42E-09	8.42E-09	4.69E-09	8.27E-08	6.46E-10	8.67E-09	1.31E-09	1.31E-09	7.23E-10	1.27E-08	3.51E-10	4.69E-09	5.85E-10	5.85E-10	2.89E-10	6.50E-09
327	258802.54	4085835.04	4.35E-09	5.81E-08	8.60E-09	8.60E-09	4.80E-09	8.45E-08	6.61E-10	8.86E-09	1.34E-09	1.34E-09	7.38E-10	1.29E-08	3.59E-10	4.79E-09	5.97E-10	5.97E-10	2.96E-10	6.64E-09
328	258780.41	4085845.27	4.45E-09	5.95E-08	8.80E-09	8.80E-09	4.91E-09	8.64E-08	6.76E-10	9.06E-09	1.37E-09	1.37E-09	7.55E-10	1.32E-08	3.67E-10	4.90E-09	6.11E-10	6.11E-10	3.03E-10	6.79E-09
329	258758.29	4085855.51	4.56E-09	6.09E-08	9.02E-09	9.02E-09	5.03E-09	8.86E-08	6.92E-10	9.28E-09	1.41E-09	1.41E-09	7.74E-10	1.36E-08	3.76E-10	5.02E-09	6.26E-10	6.26E-10	3.10E-10	6.96E-09
330	258736.16	4085865.74	4.67E-09	6.24E-08	9.23E-09	9.23E-09	5.15E-09	9.07E-08	7.09E-10	9.51E-09	1.44E-09	1.44E-09	7.92E-10	1.39E-08	3.85E-10	5.14E-09	6.41E-10	6.41E-10	3.17E-10	7.13E-09
331	258714.04	4085875.97	4.77E-09	6.37E-08	9.43E-09	9.43E-09	5.26E-09	9.26E-08	7.24E-10	9.71E-09	1.47E-09	1.47E-09	8.09E-10	1.42E-08	3.93E-10	5.25E-09	6.55E-10	6.55E-10	3.24E-10	7.28E-09
332	258691.91	4085886.2	4.87E-09	6.50E-08	9.62E-09	9.62E-09	5.36E-09	9.45E-08	7.39E-10	9.91E-09	1.50E-09	1.50E-09	8.26E-10	1.45E-08	4.01E-10	5.36E-09	6.68E-10	6.68E-10	3.31E-10	7.43E-09
333	258669.79	4085896.44	4.95E-09	6.61E-08	9.79E-09	9.79E-09	5.46E-09	9.61E-08	7.51E-10	1.01E-08	1.53E-09	1.53E-09	8.40E-10	1.47E-08	4.08E-10	5.45E-09	6.80E-10	6.80E-10	3.36E-10	7.56E-09
334	258647.66	4085906.67	5.03E-09	6.72E-08	9.94E-09	9.94E-09	5.54E-09	9.76E-08	7.63E-10	1.02E-08	1.55E-09	1.55E-09	8.53E-10	1.50E-08	4.15E-10	5.54E-09	6.90E-10	6.90E-10	3.42E-10	7.67E-09
335	258625.54	4085916.9	5.10E-09	6.81E-08	1.01E-08	1.01E-08	5.62E-09	9.90E-08	7.74E-10	1.04E-08	1.57E-09	1.57E-09	8.65E-10	1.52E-08	4.20E-10	5.62E-09	7.00E-10	7.00E-10	3.47E-10	7.78E-09
336	258603.41	4085927.13	5.17E-09	6.91E-08	1.02E-08	1.02E-08	5.70E-09	1.00E-07	7.85E-10	1.05E-08	1.60E-09	1.60E-09	8.77E-10	1.54E-08	4.26E-10	5.69E-09	7.10E-10	7.10E-10	3.51E-10	7.89E-09
337	258581.28	4085937.37	5.24E-09	7.00E-08	1.04E-08	1.04E-08	5.77E-09	1.02E-07	7.95E-10	1.07E-08	1.62E-09	1.62E-09	8.89E-10	1.56E-08	4.32E-10	5.77E-09	7.20E-10	7.20E-10	3.56E-10	8.00E-09
338	258559.16	4085947.6	5.32E-09	7.10E-08	1.05E-08	1.05E-08	5.86E-09	1.03E-07	8.07E-10	1.08E-08	1.64E-09	1.64E-09	9.02E-10	1.58E-08	4.38E-10	5.85E-09	7.30E-10	7.30E-10	3.61E-10	8.11E-09
339	258537.03	4085957.83	5.40E-09	7.21E-08	1.07E-08	1.07E-08	5.95E-09	1.05E-07	8.19E-10	1.10E-08	1.67E-09	1.67E-09	9.15E-10	1.60E-08	4.45E-10	5.94E-09	7.41E-10	7.41E-10	3.67E-10	8.23E-09
340	258514.91	4085968.07	5.48E-09	7.32E-08	1.08E-08	1.08E-08	6.04E-09	1.06E-07	8.32E-10	1.12E-08	1.69E-09	1.69E-09	9.30E-10	1.63E-08	4.52E-10	6.03E-09	7.52E-10	7.52E-10	3.72E-10	8.36E-09
341	258492.78	4085978.3	5.57E-09	7.44E-08	1.10E-08	1.10E-08	6.13E-09	1.08E-07	8.45E-10	1.13E-08	1.72E-09	1.72E-09	9.45E-10	1.66E-08	4.59E-10	6.13E-09	7.64E-10	7.64E-10	3.78E-10	8.50E-09
342	258470.66	4085988.53	5.66E-09	7.56E-08	1.12E-08	1.12E-08	6.24E-09	1.10E-07	8.59E-10	1.15E-08	1.75E-09	1.75E-09	9.60E-10	1.68E-08	4.66E-10	6.23E-09	7.77E-10	7.77E-10	3.85E-10	8.64E-09
343	258448.53	4085998.76	5.75E-09	7.68E-08	1.14E-08	1.14E-08	6.34E-09	1.12E-07	8.73E-10	1.17E-08	1.77E-09	1.77E-09	9.76E-10	1.71E-08	4.74E-10	6.33E-09	7.90E-10	7.90E-10	3.91E-10	8.78E-09
344	258426.41	4086009	5.85E-09	7.81E-08	1.16E-08	1.16E-08	6.44E-09	1.13E-07	8.87E-10	1.19E-08	1.80E-09	1.80E-09	9.92E-10	1.74E-08	4.82E-10	6.44E-09	8.03E-10	8.03E-10	3.97E-10	8.92E-09
345	259264.08	4085093.86	6.17E-09	8.24E-08	1.22E-08	1.22E-08	6.79E-09	1.20E-07	9.36E-10	1.25E-08	1.90E-09	1.90E-09	1.05E-09	1.83E-08	5.08E-10	6.79E-09	8.46E-10	8.46E-10	4.19E-10	9.41E-09
346	259263.35	4085069.1	6.33E-09	8.45E-08	1.25E-08	1.25E-08	6.97E-09	1.23E-07	9.60E-10	1.29E-08	1.95E-09	1.95E-09	1.07E-09	1.88E-08	5.22E-10	6.97E-09	8.69E-10	8.69E-10	4.30E-10	9.65E-09
347	259262.63	4085044.34	6.51E-09	8.69E-08	1.29E-08	1.29E-08	7.17E-09	1.26E-07	9.88E-10	1.32E-08	2.01E-09	2.01E-09	1.10E-09	1.94E-08	5.36E-10	7.17E-09	8.93E-10	8.93E-10	4.42E-10	9.93E-09
348	259261.91	4085019.59	6.72E-09	8.97E-08	1.33E-08	1.33E-08	7.40E-09	1.30E-07	1.02E-09	1.37E-08	2.07E-09	2.07E-09	1.14E-09	2.00E-08	5.54E-10	7.40E-09	9.22E-10	9.22E-10	4.56E-10	1.03E-08
349	259261.19	4084994.83	6.96E-09	9.29E-08	1.37E-08	1.37E-08	7.67E-09	1.35E-07	1.06E-09	1.42E-08	2.15E-09	2.15E-09	1.18E-09	2.07E-08	5.73E-10	7.66E-09	9.55E-10	9.55E-10	4.73E-10	1.06E-08
350	259260.46	4084970.07	7.22E-09	9.65E-08	1.43E-08	1.43E-08	7.96E-09	1.40E-07	1.10E-09	1.47E-08	2.23E-09	2.23E-09	1.23E-09	2.15E-08	5.95E-10	7.95E-09	9.92E-10	9.92E-10	4.91E-10	1.10E-08

351	259259.74	4084945.32	7.51E-09	1.00E-07	1.48E-08	1.48E-08	8.28E-09	1.46E-07	1.14E-09	1.53E-08	2.32E-09	2.32E-09	1.27E-09	2.23E-08	6.19E-10	8.27E-09	1.03E-09	1.03E-09	5.10E-10	1.15E-08
352	259259.02	4084920.56	7.81E-09	1.04E-07	1.54E-08	1.54E-08	8.61E-09	1.52E-07	1.19E-09	1.59E-08	2.41E-09	2.41E-09	1.32E-09	2.32E-08	6.44E-10	8.60E-09	1.07E-09	1.07E-09	5.31E-10	1.19E-08
353	259258.3	4084895.81	8.12E-09	1.08E-07	1.60E-08	1.60E-08	8.94E-09	1.58E-07	1.23E-09	1.65E-08	2.50E-09	2.50E-09	1.38E-09	2.41E-08	6.69E-10	8.94E-09	1.11E-09	1.11E-09	5.51E-10	1.24E-08
354	259455.35	4085110.99	4.69E-09	6.27E-08	9.27E-09	9.27E-09	5.17E-09	9.11E-08	7.12E-10	9.55E-09	1.45E-09	1.45E-09	7.96E-10	1.40E-08	3.87E-10	5.17E-09	6.44E-10	6.44E-10	3.19E-10	7.16E-09
355	259446.72	4085133.95	4.67E-09	6.24E-08	9.23E-09	9.23E-09	5.14E-09	9.06E-08	7.09E-10	9.50E-09	1.44E-09	1.44E-09	7.92E-10	1.39E-08	3.85E-10	5.14E-09	6.41E-10	6.41E-10	3.17E-10	7.13E-09
356	259438.08	4085156.92	4.64E-09	6.20E-08	9.17E-09	9.17E-09	5.11E-09	9.01E-08	7.04E-10	9.44E-09	1.43E-09	1.43E-09	7.87E-10	1.38E-08	3.82E-10	5.11E-09	6.37E-10	6.37E-10	3.15E-10	7.08E-09
357	259429.44	4085179.88	4.60E-09	6.15E-08	9.09E-09	9.09E-09	5.07E-09	8.93E-08	6.98E-10	9.36E-09	1.42E-09	1.42E-09	7.81E-10	1.37E-08	3.79E-10	5.07E-09	6.32E-10	6.32E-10	3.13E-10	7.02E-09
358	259420.8	4085202.85	4.55E-09	6.08E-08	8.99E-09	8.99E-09	5.01E-09	8.83E-08	6.90E-10	9.26E-09	1.40E-09	1.40E-09	7.72E-10	1.35E-08	3.75E-10	5.01E-09	6.24E-10	6.24E-10	3.09E-10	6.94E-09
359	259412.17	4085225.81	4.48E-09	5.99E-08	8.86E-09	8.86E-09	4.94E-09	8.70E-08	6.80E-10	9.12E-09	1.38E-09	1.38E-09	7.60E-10	1.33E-08	3.69E-10	4.94E-09	6.15E-10	6.15E-10	3.05E-10	6.84E-09
360	259403.53	4085248.78	4.40E-09	5.88E-08	8.70E-09	8.70E-09	4.85E-09	8.55E-08	6.69E-10	8.96E-09	1.36E-09	1.36E-09	7.47E-10	1.31E-08	3.63E-10	4.85E-09	6.05E-10	6.05E-10	2.99E-10	6.72E-09
361	259394.89	4085271.74	4.32E-09	5.77E-08	8.53E-09	8.53E-09	4.76E-09	8.38E-08	6.55E-10	8.79E-09	1.33E-09	1.33E-09	7.33E-10	1.28E-08	3.56E-10	4.75E-09	5.93E-10	5.93E-10	2.93E-10	6.59E-09
362	259386.25	4085294.71	4.23E-09	5.65E-08	8.35E-09	8.35E-09	4.66E-09	8.20E-08	6.41E-10	8.60E-09	1.30E-09	1.30E-09	7.17E-10	1.26E-08	3.48E-10	4.65E-09	5.80E-10	5.80E-10	2.87E-10	6.45E-09
363	259377.61	4085317.68	4.13E-09	5.52E-08	8.17E-09	8.17E-09	4.55E-09	8.02E-08	6.27E-10	8.41E-09	1.28E-09	1.28E-09	7.01E-10	1.23E-08	3.41E-10	4.55E-09	5.67E-10	5.67E-10	2.81E-10	6.31E-09
364	259368.98	4085340.64	4.03E-09	5.39E-08	7.97E-09	7.97E-09	4.45E-09	7.83E-08	6.12E-10	8.21E-09	1.24E-09	1.24E-09	6.84E-10	1.20E-08	3.33E-10	4.44E-09	5.54E-10	5.54E-10	2.74E-10	6.16E-09
365	259360.34	4085363.61	3.95E-09	5.28E-08	7.81E-09	7.81E-09	4.35E-09	7.67E-08	5.99E-10	8.04E-09	1.22E-09	1.22E-09	6.70E-10	1.17E-08	3.26E-10	4.35E-09	5.42E-10	5.42E-10	2.68E-10	6.03E-09
366	259351.7	4085386.57	3.87E-09	5.17E-08	7.66E-09	7.66E-09	4.27E-09	7.52E-08	5.88E-10	7.88E-09	1.20E-09	1.20E-09	6.57E-10	1.15E-08	3.19E-10	4.26E-09	5.32E-10	5.32E-10	2.63E-10	5.91E-09
367	259343.06	4085409.54	3.80E-09	5.08E-08	7.52E-09	7.52E-09	4.19E-09	7.38E-08	5.77E-10	7.74E-09	1.17E-09	1.17E-09	6.45E-10	1.13E-08	3.14E-10	4.19E-09	5.22E-10	5.22E-10	2.58E-10	5.80E-09
368	259334.43	4085432.5	3.74E-09	5.00E-08	7.39E-09	7.39E-09	4.12E-09	7.26E-08	5.68E-10	7.61E-09	1.15E-09	1.15E-09	6.35E-10	1.11E-08	3.08E-10	4.12E-09	5.14E-10	5.14E-10	2.54E-10	5.71E-09
369	259325.79	4085455.47	3.69E-09	4.93E-08	7.29E-09	7.29E-09	4.06E-09	7.16E-08	5.60E-10	7.50E-09	1.14E-09	1.14E-09	6.26E-10	1.10E-08	3.04E-10	4.06E-09	5.06E-10	5.06E-10	2.51E-10	5.63E-09
370	259317.15	4085478.43	3.64E-09	4.86E-08	7.19E-09	7.19E-09	4.01E-09	7.06E-08	5.52E-10	7.40E-09	1.12E-09	1.12E-09	6.17E-10	1.08E-08	3.00E-10	4.00E-09	4.99E-10	4.99E-10	2.47E-10	5.55E-09
371	259308.51	4085501.4	3.59E-09	4.80E-08	7.09E-09	7.09E-09	3.96E-09	6.97E-08	5.45E-10	7.31E-09	1.11E-09	1.11E-09	6.09E-10	1.07E-08	2.96E-10	3.95E-09	4.93E-10	4.93E-10	2.44E-10	5.48E-09
372	259299.87	4085524.37	3.55E-09	4.74E-08	7.01E-09	7.01E-09	3.91E-09	6.88E-08	5.38E-10	7.21E-09	1.09E-09	1.09E-09	6.01E-10	1.05E-08	2.92E-10	3.90E-09	4.87E-10	4.87E-10	2.41E-10	5.41E-09
373	259291.24	4085547.33	3.50E-09	4.68E-08	6.92E-09	6.92E-09	3.86E-09	6.80E-08	5.31E-10	7.13E-09	1.08E-09	1.08E-09	5.94E-10	1.04E-08	2.89E-10	3.86E-09	4.81E-10	4.81E-10	2.38E-10	5.34E-09
374	259282.6	4085570.3	3.46E-09	4.62E-08	6.84E-09	6.84E-09	3.81E-09	6.72E-08	5.25E-10	7.04E-09	1.07E-09	1.07E-09	5.87E-10	1.03E-08	2.85E-10	3.81E-09	4.75E-10	4.75E-10	2.35E-10	5.28E-09
375	259273.96	4085593.26	3.42E-09	4.56E-08	6.75E-09	6.75E-09	3.76E-09	6.63E-08	5.19E-10	6.95E-09	1.05E-09	1.05E-09	5.80E-10	1.02E-08	2.82E-10	3.76E-09	4.69E-10	4.69E-10	2.32E-10	5.21E-09
376	259265.32	4085616.23	3.37E-09	4.51E-08	6.67E-09	6.67E-09	3.72E-09	6.55E-08	5.12E-10	6.86E-09	1.04E-09	1.04E-09	5.72E-10	1.00E-08	2.78E-10	3.71E-09	4.63E-10	4.63E-10	2.29E-10	5.15E-09
377	259256.69	4085639.19	3.33E-09	4.45E-08	6.58E-09	6.58E-09	3.67E-09	6.46E-08	5.05E-10	6.77E-09	1.03E-09	1.03E-09	5.65E-10	9.90E-09	2.74E-10	3.66E-09	4.57E-10	4.57E-10	2.26E-10	5.08E-09
378	259248.05	4085662.16	3.28E-09	4.38E-08	6.48E-09	6.48E-09	3.61E-09	6.37E-08	4.98E-10	6.68E-09	1.01E-09	1.01E-09	5.56E-10	9.75E-09	2.70E-10	3.61E-09	4.50E-10	4.50E-10	2.23E-10	5.01E-09
379	259239.41	4085685.12	3.23E-09	4.32E-08	6.38E-09	6.38E-09	3.56E-09	6.27E-08	4.90E-10	6.57E-09	9.97E-10	9.97E-10	5.48E-10	9.61E-09	2.66E-10	3.56E-09	4.44E-10	4.44E-10	2.20E-10	4.93E-09
380	259230.77	4085708.09	3.18E-09	4.25E-08	6.28E-09	6.28E-09	3.50E-09	6.17E-08	4.82E-10	6.47E-09	9.81E-10	9.81E-10	5.39E-10	9.45E-09	2.62E-10	3.50E-09	4.36E-10	4.36E-10	2.16E-10	4.85E-09
381	259222.13	4085731.06	3.13E-09	4.17E-08	6.18E-09	6.18E-09	3.44E-09	6.07E-08	4.74E-10	6.36E-09	9.64E-10	9.64E-10	5.30E-10	9.29E-09	2.58E-10	3.44E-09	4.29E-10	4.29E-10	2.12E-10	4.77E-09
382	259213.5	4085754.02	3.07E-09	4.11E-08	6.08E-09	6.08E-09	3.39E-09	5.97E-08	4.67E-10	6.26E-09	9.49E-10	9.49E-10	5.22E-10	9.14E-09	2.53E-10	3.39E-09	4.22E-10	4.22E-10	2.09E-10	4.69E-09
383	259204.86	4085776.99	3.02E-09	4.04E-08	5.97E-09	5.97E-09	3.33E-09	5.87E-08	4.59E-10	6.15E-09	9.33E-10	9.33E-10	5.13E-10	8.99E-09	2.49E-10	3.33E-09	4.15E-10	4.15E-10	2.05E-10	4.61E-09
384	259196.22	4085799.95	2.98E-09	3.98E-08	5.88E-09	5.88E-09	3.28E-09	5.78E-08	4.52E-10	6.06E-09	9.19E-10	9.19E-10	5.05E-10	8.85E-09	2.45E-10	3.28E-09	4.09E-10	4.09E-10	2.02E-10	4.54E-09
385	259187.58	4085822.92	2.93E-09	3.92E-08	5.80E-09	5.80E-09	3.23E-09	5.69E-08	4.45E-10	5.97E-09	9.05E-10	9.05E-10	4.98E-10	8.72E-09	2.42E-10	3.23E-09	4.03E-10	4.03E-10	1.99E-10	4.48E-09
386	259178.95	4085845.88	2.89E-09	3.87E-08	5.72E-09	5.72E-09	3.19E-09	5.62E-08	4.39E-10	5.89E-09	8.93E-10	8.93E-10	4.91E-10	8.61E-09	2.39E-10	3.19E-09	3.97E-10	3.97E-10	1.97E-10	4.42E-09
387	259148.04	4085879.15	2.89E-09	3.86E-08	5.71E-09	5.71E-09	3.19E-09	5.61E-08	4.39E-10	5.88E-09	8.92E-10	8.92E-10	4.91E-10	8.60E-09	2.38E-10	3.18E-09	3.97E-10	3.97E-10	1.96E-10	4.41E-09
388	259125.77	4085889.45	2.93E-09	3.91E-08	5.78E-09	5.78E-09	3.22E-09	5.68E-08	4.44E-10	5.95E-09	9.03E-10	9.03E-10	4.96E-10	8.70E-09	2.41E-10	3.22E-09	4.02E-10	4.02E-10	1.99E-10	4.46E-09
389	259103.5	4085899.75	2.96E-09	3.95E-08	5.85E-09	5.85E-09	3.26E-09	5.75E-08	4.49E-10	6.02E-09	9.13E-10	9.13E-10	5.02E-10	8.80E-09	2.44E-10	3.26E-09	4.06E-10	4.06E-10	2.01E-10	4.52E-09
390	259081.23	4085910.05	3.00E-09	4.00E-08	5.92E-09	5.92E-09	3.30E-09	5.81E-08	4.55E-10	6.10E-09	9.24E-10	9.24E-10	5.08E-10	8.91E-09	2.47E-10	3.30E-09	4.11E-10	4.11E-10	2.04E-10	4.57E-09
391	259058.96	4085920.35	3.03E-09	4.05E-08	5.99E-09	5.99E-09	3.34E-09	5.89E-08	4.60E-10	6.17E-09	9.36E-10	9.36E-10	5.14E-10	9.02E-09	2.50E-10	3.34E-09	4.16E-10	4.16E-10	2.06E-10	4.63E-09
392	259036.69	4085930.65	3.07E-09	4.10E-08	6.07E-09	6.07E-09	3.38E-09	5.96E-08	4.66E-10	6.25E-09	9.48E-10	9.48E-10	5.21E-10	9.13E-09	2.53E-10	3.38E-09	4.22E-10	4.22E-10	2.09E-10	4.69E-09
393	259014.42	4085940.95	3.11E-09	4.16E-08	6.15E-09	6.15E-09	3.43E-09	6.04E-08	4.72E-10	6.33E-09	9.60E-10	9.60E-10	5.28E-10	9.25E-09	2.56E-10	3.43E-09	4.27E-10	4.27E-10	2.11E-10	4.75E-09
394	258992.15	4085951.25	3.15E-09	4.21E-08	6.23E-09	6.23E-09	3.48E-09	6.12E-08	4.79E-10	6.42E-09	9.73E-10	9.73E-10	5.35E-10	9.38E-09	2.60E-10	3.47E-09	4.33E-10	4.33E-10	2.14E-10	4.81E-09
395	258969.88	4085961.54	3.20E-09	4.27E-08	6.32E-09	6.32E-09	3.53E-09	6.21E-08	4.86E-10	6.51E-09	9.87E-10	9.87E-10	5.43E-10	9.51E-09	2.64E-10	3.52E-09	4.39E-10	4.39E-10	2.17E-10	4.88E-09
396	258947.61	4085971.84	3.24E-09	4.33E-08	6.41E-09	6.41E-09	3.57E-09	6.30E-08	4.92E-10	6.60E-09	1.00E-09	1.00E-09	5.50E-10	9.64E-09	2.67E-10	3.57E-09	4.45E-10	4.45E-10	2.20E-10	4.95E-09
397	258925.34	4085982.14	3.30E-09	4.41E-08	6.52E-09	6.52E-09	3.63E-09	6.40E-08	5.01E-10	6.71E-09	1.02E-09	1.02E-09	5.60E-10	9.81E-09	2.72E-10	3.63E-09	4.53E-10	4.53E-10	2.24E-10	5.03E-09
398	258903.07	4085992.44	3.37E-09	4.50E-08	6.65E-09	6.65E-09	3.71E-09	6.53E-08	5.11E-10	6.85E-09	1.04E-09	1.04E-09	5.71E-10	1.00E-08	2.77E-10	3.71E-09	4.62E-10	4.62E-10	2.29E-10	5.14E-09
399	258880.8	4086002.74	3.44E-09	4.59E-08	6.79E-09	6.79E-09	3.79E-09	6.67E-08	5.22E-10	7.00E-09	1.06E-09	1.06E-09	5.83E-10	1.02E-08	2.83E-10	3.79E-09	4.72E-10	4.72E-10	2.34E-10	5.25E-09
400	258858.53	4086013.04	3.52E-09	4.70E-08	6.95E-09	6.95E-09	3.88E-09	6.83E-08	5.34E-10	7.16E-09	1.09E-09	1.09E-09	5.97E-10	1.05E-08	2.90E-10	3.87E-09	4.83E-10	4.83E-10	2.39E-10	5.37E-09
401	258836.26	4086023.34	3.60E-09	4.81E-08	7.12E-09	7.12E-09	3.97E-09	6.99E-08	5.47E-10	7.33E-09	1.11E-09	1.11E-09	6.11E-10	1.07E-08	2.97E-10	3.97E-09	4.95E-10	4.95E-10	2.45E-10	5.50E-09
402	258813.99	4086033.64	3.69E-09	4.92E-08	7.28E-09	7.28E-09	4.06E-09	7.16E-08	5.59E-10	7.50E-09	1.14E-09	1.14E-09	6.25E-10	1.10E-08	3.04E-10	4.06E-09	5.06E-10	5.06E-10	2.50E-10	5.63E-09
403	258791.72	4086043.94	3.77E-09	5.03E-08	7.44E-09	7.44E-09	4.15E-09	7.31E-08	5.71E-10	7.66E-09	1.16E-09	1.16E-09	6.39E-10	1.12E-08	3.10E-10	4.15E-09	5.17E-10	5.17E-10	2.56E-10	5.75E-09
404	258769.45	4086054.24	3.84E-09	5.13E-08	7.58E-09	7.58E-09	4.23E-09	7.45E-08	5.82E-10	7.81E-09	1.18E-09	1.18E-09	6.51E-10	1.14E-08	3.16E-10	4.23E-09	5.27E-10	5.27E-10	2.61E-10	5.86E-09
405	258747.18	4086064.54	3.90E-09	5.21E-08	7.71E-09	7.71E-09	4.30E-09	7.58E-08	5.92E-10	7.94E-09	1.20E-09	1.20E-09	6.62E-10	1.16E-08	3.22E-10	4.30E-09	5.36E-10	5.36E-10	2.65E-10	5.96E-09
406	258724.91	4086074.84	3.96E-09	5.29E-08	7.82E-09	7.82E-09	4.36E-09	7.68E-08	6.01E-10	8.05E-09	1.22E-09	1.22E-09	6.71E-10	1.18E-08	3.26E-10	4.36E-09	5.43E-10	5.43E-10	2.69E-10	6.04E-09
407	258702.64	4086085.14	4.01E-09	5.35E-08	7.92E-09	7.92E-09	4.41E-09	7.77E-08	6.08E-10	8.15E-09	1.24E-09	1.24E-09	6.79E-10	1.19E-08	3.30E-10	4.41E-09	5.50E-10	5.50E-10	2.72E-10	6.11E-09
408	258680.37	4086095.44	4.05E-09	5.41E-08	8.00E-09	8.00E-09	4.46E-09	7.86E-08	6.14E-10	8.24E-09	1.25E-09	1.25E-09	6.87E-10	1.20E-08	3.34E-10	4.46E-09	5.56E-10	5.56E-10	2.75E-10	6.18E-09
409	258658.1	4086105.74	4.09E-09	5.46E-08	8.08E-09	8.08E-09	4.50E-09	7.93E-08	6.20E-10	8.32E-09	1.26E-09	1.26E-09	6.93E-10	1.22E-08	3.37E-10	4.50E-09	5.61E-10	5.61E-10	2.78E-10	6.24E-09
410	258635.83	4086116.04	4.13E-09	5.51E-08	8.15E-09	8.15E-09	4.55E-09	8.01E-08	6.26E-10	8.40E-09	1.27E-09	1.27E-09	7.00E-10	1.23E-08	3.40E-10	4.54E-09	5.66E-10	5.66E-10	2.80E-10	6.30E-09
411	258613.56	4086126.34	4.17E-09	5.57E-08	8.23E-09	8.23E-09	4.59E-09	8.09E-08	6.32E-10	8.48E-09	1.29E-09	1.29E-09	7.07E-10	1.24E-08	3.43E-10	4.59E-09	5.72E-10	5.72E-10	2.83E-10	6.36E-09
412	258591.29	4086136.64	4.21E-09	5.62E-08	8.32E-09	8.32E-09	4.64E-09	8.17E-08	6.39E-10	8.56E-09	1.30E-09	1.30E-09	7.14E-10	1.25E-08	3.47E-10	4.63E-09	5.78E-10	5.78E-10	2.86E-10	6.42E-09
413	258569.02	4086146.94	4.25E-09	5.68E-08	8.41E-09	8.41E-09	4.69E-09	8.26E-08	6.46E-10	8.66E-09	1.31E-09	1.31E-09	7.22E-10	1.27E-08	3.51E-10	4.68E-09	5.84E-10	5.84E-10	2.89E-10	6.49E-09
414	258546.75	4086157.24	4.30E-09	5.75E-08	8.51E-09	8.51E-09	4.74E-09	8.36E-08	6.53E-10	8.76E-09	1.33E-09	1.33E-09	7.30E-10	1.28E-08	3.55E-10	4.74E-09	5.91E-10	5.91E-10	2.92E-10	6.57E-09
415	258524.48	4086167.54	4.36E-09	5.82E-08	8.61E-09	8.61E-09	4.80E-09	8.46E-08	6.61E-10	8.87E-09	1.34E-09	1.34E-09	7.39E-10	1.30E-08	3.59E-10	4.80E-09	5.98E-10	5.98E-10	2.96E-10	6.65E-09
416	258502.21	4086177.83	4.42E-09	5.90E-08	8.73E-09	8.73E-09	4.87E-09	8.57E-08	6.70E-10	8.99E-09	1.36E-09	1.36E-09	7.49E-10	1.31E-08	3.64E-10	4.86E-09	6.06E-10	6.06E-10	3.00E-10	6.74E-09
417	258479.94	4086188.13	4.48E-09	5.98E-08	8.85E-09	8.85E-09	4.94E-09	8.69E-08	6.80E-10	9.11E-09	1.38E-09	1.38E-09	7.60E-10	1.33E-08	3.69E-10	4.93E-09	6.15E-10	6.15E-10	3.04E-10	6.84E-09
418	258457.67	4086198.43	4.54E-09	6.07E-08	8.97E-09	8.97E-09	5.00E-09	8.81E-08	6.89E-10	9.24E-09	1.40E-09	1.40E-09	7.70E-10	1.35E-08	3.74E-10	5.00E-09	6.23E-10	6.23E-10	3.09E-10	6.93E-09
419	258435.4	4086208.73	4.61E-09	6.16E-08	9.12E-09	9.12E-09	5.08E-09	8.96E-08	7.00E-10	9.39E-09	1.42E-09	1.42E-09	7.83E-10	1.37E-08	3.80E-10	5.08E-09	6.33E-10	6.33E-10	3.14E-10	7.04E-09
420	259463.99	4085088.02	4.71E-09	6.30E-08	9.32E-09	9.32E-09	5.19E-09	9.15E-08	7.16E-10	9.59E-09	1.45E-09	1.45E-09	8.00E-10	1.40E-08	3.89E-10	5.19E-09	6.47E-10	6.47E-10	3.20E-10	7.19E-09
421	259463.27	4085063.26	4.80E-09	6.42E-08	9.49E-09	9.49E-09	5.29E-09	9.33E-08	7.29E-10	9.78E-09	1.48E-09	1.48E-09	8.15E-10	1.43E-08	3.96E-10	5.29E-09	6.60E-10	6.60E-10	3.26E-10	7.33E-09
422	259462.55	4085038.51	4.92E-09	6.57E-08	9.72E-09	9.72E-09	5.42E-09	9.55E-08	7.47E-10	1.00E-08	1.52E-09	1.52E-09	8.34E-10	1.46E-08	4.05E-10	5.42E-09	6.75E-10	6.75E-10	3.34E-10	7.51E-09
423	259461.82	4085013.75	5.05E-09	6.75E-08	9.98E-09	9.98E-09	5.56E-09	9.80E-08	7.67E-10	1.03E-08	1.56E-09	1.56E-09	8.57E-10	1.50E-08	4.16E-10	5.56E-09	6.93E-10	6.93E-10	3.43E-10	7.71E-09
424	259461.1	4084989	5.21E-09	6.95E-08	1.03E-08	1.03E-08	5.74E-09	1.01E-07	7.90E-10	1.06E-08	1.61E-09	1.61E-09	8.83E-10	1.55E-08	4.29E-10	5.73E-09	7.15E-10	7.15E-10	3.54E-10	7.94E-09
425	259460.38	4084964.24	5.38E-09	7.18E-08	1.06E-08	1.06E-08	5.93E-09	1.04E-07	8.16E-10	1.09E-08	1.66E-09	1.66E-09	9.12E-10	1.60E-08	4.43E-10	5.92E-09	7.38E-10	7.38E-10	3.66E-10	8.21E-09
426	259459.66	4084939.48	5.57E-09	7.44E-08	1.10E-08	1.10E-08	6.13E-09	1.08E-07	8.45E-10	1.13E-08	1.72E-09	1.72E-09	9.45E-10	1.66E-08	4.59E-10	6.13E-09	7.64E-10	7.64E-10	3.78E-10	8.50E-09
427	259458.93	4084914.73	5.76E-09	7.70E-08	1.14E-08	1.14E-08	6.35E-09	1.12E-07	8.75E-10	1.17E-08	1.78E-09	1.78E-09	9.78E-10	1.71E-08	4.75E-10	6.35E-09	7.91E-10	7.91E-10	3.92E-10	8.79E-09
428	259458.21	4084889.97	5.96E-09	7.96E-08	1.18E-08	1.18E-08	6.56E-09	1.16E-07	9.04E-10	1.21E-08	1.84E-09	1.84E-09	1.01E-09	1.77E-08	4.91E-10	6.56E-09	8.18E-10	8.18E-10	4.05E-10	9.09E-09
429	259655.23	4085105.26	3.79E-09	5.06E-08	7.49E-09	7.49E-09	4.17E-09	7.35E-08	5.75E-10	7.71E-09	1.17E-09	1.17E-09	6.43E-10	1.13E-08	3.12E-10	4.17E-09	5.20E-10	5.20E-10	2.57E-10	5.78E-09
430	259646.55	4085128.33	3.78E-09	5.05E-08	7.47E-09	7.47E-09	4.17E-09	7.34E-08	5.74E-10	7.70E-09	1.17E-09	1.17E-09	6.42E-10	1.12E-08	3.12E-10	4.16E-09	5.19E-10	5.19E-10	2.57E-10	5.77E-09
431	259637.88	4085151.4	3.77E-09	5.04E-08	7.46E-09	7.46E-09	4.16E-09	7.33E-08	5.73E-10	7.68E-09	1.16E-09	1.16E-09	6.40E-10	1.12E-08	3.11E-10	4.16E-09	5.18E-10	5.18E-10	2.56E-10	5.76E-09
432	259629.2	4085174.47	3.75E-09	5.01E-08	7.42E-09	7.42E-09	4.14E-09	7.29E-08	5.70E-10	7.64E-09	1.16E-09	1.16E-09	6.37E-10	1.12E-08	3.09E-10	4.13E-09	5.15E-10	5.15E-10	2.55E-10	5.73E-09
433	259620.52	4085197.54	3.73E-09	4.98E-08	7.37E-09	7.37E-09	4.11E-09	7.24E-08	5.66E-10	7.59E-09	1.15E-09	1.15E-09	6.33E-10	1.11E-08	3.07E-10	4.11E-09	5.12E-10	5.12E-10	2.53E-10	5.69E-09
434	259611.84	4085220.61	3.70E-09	4.94E-08	7.30E-09	7.30E-09	4.07E-09	7.17E-08	5.61E-10	7.52E-09	1.14E-09	1.14E-09	6.27E-10	1.10E-08	3.05E-10	4.07E-09	5.07E-10	5.07E-10	2.51E-10	5.64E-09
435	259603.17	4085243.68	3.65E-09	4.88E-08	7.21E-09	7.21E-09	4.02E-09	7.09E-08	5.54E-10	7.43E-09	1.13E-09	1.13E-09	6.19E-10	1.09E-08	3.01E-10	4.02E-09	5.01E-10	5.01E-10	2.48E-10	5.57E-09
436	259594.49	4085266.75	3.59E-09	4.80E-08	7.10E-09	7.10E-09	3.96E-09	6.98E-08	5.46E-10	7.32E-09	1.11E-09	1.11E-09	6.10E-10	1.07E-08	2.96E-10	3.96E-09	4.94E-10	4.94E-10	2.44E-10	5.49E-09
437	259585.81	4085289.82	3.53E-09	4.72E-08	6.98E-09	6.98E-09	3.89E-09	6.86E-08	5.36E-10	7.19E-09	1.09E-09	1.09E-09	5.99E-10	1.05E-08	2.91E-10	3.89E-09	4.85E-10	4.85E-10	2.40E-10	5.39E-09
438	259577.14	4085312.89	3.47E-09	4.63E-08	6.85E-09	6.85E-09	3.82E-09	6.73E-08	5.26E-10	7.05E-09	1.07E-09	1.07E-09	5.88E-10	1.03E-08	2.86E-10	3.82E-09	4.76E-10	4.76E-10	2.36E-10	5.29E-09
439	259568.46	4085335.96	3.40E-09	4.54E-08	6.71E-09	6.71E-09	3.74E-09	6.59E-08	5.15E-10	6.91E-09	1.05E-09	1.05E-09	5.76E-10	1.01E-08	2.80E-10	3.74E-09	4.66E-10	4.66E-10	2.31E-10	5.18E-09
440	259559.78	4085359.03	3.33E-09	4.45E-08	6.58E-09	6.58E-09	3.67E-09	6.46E-08	5.05E-10	6.77E-09	1.03E-09	1.03E-09	5.65E-10	9.90E-09	2.74E-10	3.66E-09	4.57E-10	4.57E-10	2.26E-10	5.08E-09
441	259551.11	4085382.1	3.26E-09	4.36E-08	6.45E-09	6.45E-09	3.59E-09	6.33E-08	4.95E-10	6.64E-09	1.01E-09	1.01E-09	5.53E-10	9.70E-09	2.69E-10	3.59E-09	4.48E-10	4.48E-10	2.22E-10	4.98E-09
442	259542.43	4085405.17	3.20E-09	4.27E-08	6.32E-09	6.32E-09	3.52E-09	6.21E-08	4.85E-10	6.51E-09	9.87E-10	9.87E-10	5.43E-10	9.51E-09	2.64E-10	3.52E-09	4.39E-10	4.39E-10	2.17E-10	4.88E-09
443	259533.75	4085428.24	3.14E-09	4.19E-08	6.20E-09	6.20E-09	3.46E-09	6.09E-08	4.76E-10	6.39E-09	9.69E-10	9.69E-10	5.33E-10	9.34E-09	2.59E-10	3.46E-09	4.31E-10	4.31E-10	2.13E-10	4.79E-09
444	259525.07	4085451.31	3.09E-09	4.12E-08	6.10E-09	6.10E-09	3.40E-09	5.99E-08	4.68E-10	6.28E-09	9.52E-10	9.52E-10	5.23E-10	9.17E-09	2.54E-10	3.40E-09	4.24E-10	4.24E-10	2.10E-10	4.71E-09
445	259516.4	4085474.37	3.04E-09	4.05E-08	6.00E-09	6.00E-09	3.34E-09	5.89E-08	4.61E-10	6.18E-09	9.37E-10	9.37E-10	5.15E-10	9.03E-09	2.50E-10	3.34E-09	4.17E-10	4.17E-10	2.06E-10	4.63E-09
446	259507.72	4085497.44	2.99E-09	4.00E-08	5.92E-09	5.92E-09	3.30E-09	5.81E-08	4.54E-10	6.09E-09	9.24E-10	9.24E-10	5.08E-10	8.90E-09	2.47E-10	3.30E-09	4.11E-10	4.11E-10	2.03E-10	4.57E-09
447	259499.04	4085520.51	2.96E-09	3.95E-08	5.84E-09	5.84E-09	3.26E-09	5.74E-08	4.49E-10	6.02E-09	9.12E-10	9.12E-10	5.02E-10	8.79E-09	2.44E-10	3.26E-09	4.06E-10	4.06E-10	2.01E-10	4.51E-09
448	259490.37	4085543.58	2.92E-09	3.91E-08	5.78E-09	5.78E-09	3.22E-09	5.68E-08	4.44E-10	5.95E-09	9.02E-10	9.02E-10	4.96E-10	8.69E-09	2.41E-10	3.22E-09	4.01E-10	4.01E-10	1.99E-10	4.46E-09
449	259481.69	4085566.65	2.89E-09	3.87E-08	5.72E-09	5.72E-09	3.19E-09	5.62E-08	4.39E-10	5.89E-09	8.93E-10	8.93E-10	4.91E-10	8.61E-09	2.39E-10	3.19E-09	3.97E-10	3.97E-10	1.97E-10	4.42E-09
450	259473.01	4085589.72	2.87E-09	3.83E-08	5.67E-09	5.67E-09	3.16E-09	5.57E-08	4.35E-10	5.83E-09	8.85E-10	8.85E-10	4.86E-10	8.52E-09	2.36E-10	3.16E-09	3.94E-10	3.94E-10	1.95E-10	4.37E-09
451	259464.33	4085612.79	2.84E-09	3.79E-08	5.61E-09	5.61E-09	3.13E-09	5.51E-08	4.31E-10	5.78E-09	8.76E-10	8.76E-10	4.82E-10	8.45E-09	2.34E-10	3.13E-09	3.90E-10	3.90E-10	1.93E-10	4.33E-09
452	259455.66	4085635.86	2.82E-09	3.76E-08	5.56E-09	5.56E-09	3.10E-09	5.47E-08	4.27E-10	5.73E-09	8.69E-10	8.69E-10	4.78E-10	8.37E-09	2.32E-10	3.10E-09	3.87E-10	3.87E-10	1.91E-10	4.30E-09
453	259446.98	4085658.93	2.79E-09	3.73E-08	5.51E-09	5.51E-09	3.07E-09	5.41E-08	4.23E-10	5.68E-09	8.61E-10	8.61E-10	4.73E-10	8.29E-09	2.30E-10	3.07E-09	3.83E-10	3.83E-10	1.90E-10	4.26E-09
454	259438.3	4085682	2.76E-09	3.69E-08	5.46E-09	5.46E-09	3.05E-09	5.37E-08	4.20E-10	5.63E-09	8.53E-10	8.53E-10	4.69E-10	8.22E-09	2.28E-10	3.04E-09	3.80E-10	3.80E-10	1.88E-10	4.22E-09
455	259429.63	4085705.07	2.74E-09	3.66E-08	5.41E-09	5.41E-09	3.02E-09	5.32E-08	4.16E-10	5.57E-09	8.45E-10	8.45E-10	4.65E-10	8.14E-09	2.26E-10	3.01E-09	3.76E-10	3.76E-10	1.86E-10	4.18E-09
456	259420.95	4085728.14	2.71E-09	3.62E-08	5.36E-09	5.36E-09	2.99E-09	5.26E-08	4.11E-10	5.52E-09	8.36E-10	8.36E-10	4.60E-10	8.06E-09	2.23E-10	2.98E-09	3.72E-10	3.72E-10	1.84E-10	4.14E-09
457	259412.27	4085751.21	2.68E-09	3.58E-08	5.30E-09	5.30E-09	2.95E-09	5.20E-08	4.07E-10	5.46E-09	8.27E-10	8.27E-10	4.55E-10	7.97E-09	2.21E-10	2.95E-09	3.68E-10	3.68E-10	1.82E-10	4.09E-09
458	259403.6	4085774.28	2.65E-09	3.54E-08	5.23E-09	5.23E-09	2.92E-09	5.14E-08	4.02E-10	5.39E-09	8.17E-10	8.17E-10	4.49E-10	7.88E-09	2.18E-10	2.92E-09	3.64E-10	3.64E-10	1.80E-10	4.04E-09
459	259394.92	4085797.35	2.61E-09	3.49E-08	5.17E-09	5.17E-09	2.88E-09	5.07E-08	3.97E-10	5.32E-09	8.07E-10	8.07E-10	4.44E-10	7.77E-09	2.16E-10	2.88E-09	3.59E-10	3.59E-10	1.78E-10	3.99E-09
460	259386.24	4085820.42	2.58E-09	3.44E-08	5.09E-09	5.09E-09	2.84E-09	5.00E-08	3.91E-10	5.24E-09	7.95E-10	7.95E-10	4.37E-10	7.66E-09	2.12E-10	2.84E-09	3.54E-10	3.54E-10	1.75E-10	3.93E-09
461	259377.56	4085843.49	2.54E-09	3.39E-08	5.02E-09	5.02E-09	2.80E-09	4.93E-08	3.85E-10	5.17E-09	7.83E-10	7.83E-10	4.31E-10	7.55E-09	2.09E-10	2.80E-09	3.48E-10	3.48E-10	1.73E-10	3.87E-09
462	259368.89	4085866.56	2.50E-09	3.34E-08	4.94E-09	4.94E-09	2.75E-09	4.85E-08	3.79E-10	5.09E-09	7.71E-10	7.71E-10	4.24E-10	7.43E-09	2.06E-10	2.75E-09	3.43E-10	3.43E-10	1.70E-10	3.81E-09
463	259360.21	4085889.63	2.46E-09	3.29E-08	4.87E-09	4.87E-09	2.71E-09	4.78E-08	3.74E-10	5.01E-09	7.60E-10	7.60E-10	4.18E-10	7.32E-09	2.03E-10	2.71E-09	3.38E-10	3.38E-10	1.67E-10	3.76E-09
464	259351.53	4085912.7	2.43E-09	3.24E-08	4.80E-09	4.80E-09	2.68E-09	4.71E-08	3.69E-10	4.94E-09	7.49E-10	7.49E-10	4.12E-10	7.22E-09	2.00E-10	2.67E-09	3.33E-10	3.33E-10	1.65E-10	3.71E-09
465	259342.86	4085935.77	2.40E-09	3.20E-08	4.74E-09	4.74E-09	2.64E-09	4.65E-08	3.64E-10	4.88E-09	7.39E-10	7.39E-10	4.06E-10	7.12E-09	1.98E-10	2.64E-09	3.29E-10	3.29E-10	1.63E-10	3.66E-09
466	259334.18	4085958.84	2.37E-09	3.17E-08	4.68E-09	4.68E-09	2.61E-09	4.60E-08	3.60E-10	4.82E-09	7.31E-10	7.31E-10	4.02E-10	7.05E-09	1.95E-10	2.61E-09	3.25E-10	3.25E-10	1.61E-10	3.62E-09
467	259325.5	4085981.91	2.35E-09	3.13E-08	4.64E-09	4.64E-09	2.59E-09	4.55E-08	3.56E-10	4.77E-09	7.24E-10	7.24E-10	3.98E-10	6.98E-09	1.93E-10	2.58E-09	3.22E-10	3.22E-10	1.59E-10	3.58E-09
468	259294.45	4086015.33	2.35E-09	3.14E-08	4.64E-09	4.64E-09	2.59E-09	4.56E-08	3.57E-10	4.78E-09	7.25E-10	7.25E-10	3.99E-10	6.99E-09	1.94E-10	2.59E-09	3.23E-10	3.23E-10	1.60E-10	3.59E-09

469	259272.08	4086025.68	2.37E-09	3.17E-08	4.69E-09	4.69E-09	2.62E-09	4.61E-08	3.60E-10	4.83E-09	7.33E-10	7.33E-10	4.03E-10	7.06E-09	1.96E-10	2.61E-09	3.26E-10	3.26E-10	1.61E-10	3.62E-09
470	259249.71	4086036.02	2.40E-09	3.20E-08	4.74E-09	4.74E-09	2.64E-09	4.66E-08	3.64E-10	4.88E-09	7.40E-10	7.40E-10	4.07E-10	7.13E-09	1.98E-10	2.64E-09	3.29E-10	3.29E-10	1.63E-10	3.66E-09
471	259227.34	4086046.37	2.43E-09	3.24E-08	4.79E-09	4.79E-09	2.67E-09	4.71E-08	3.68E-10	4.94E-09	7.48E-10	7.48E-10	4.11E-10	7.21E-09	2.00E-10	2.67E-09	3.33E-10	3.33E-10	1.65E-10	3.70E-09
472	259204.97	4086056.71	2.45E-09	3.27E-08	4.84E-09	4.84E-09	2.70E-09	4.76E-08	3.72E-10	4.99E-09	7.56E-10	7.56E-10	4.16E-10	7.29E-09	2.02E-10	2.70E-09	3.36E-10	3.36E-10	1.67E-10	3.74E-09
473	259182.6	4086067.06	2.48E-09	3.31E-08	4.89E-09	4.89E-09	2.73E-09	4.80E-08	3.76E-10	5.04E-09	7.64E-10	7.64E-10	4.20E-10	7.36E-09	2.04E-10	2.73E-09	3.40E-10	3.40E-10	1.68E-10	3.78E-09
474	259160.23	4086077.41	2.50E-09	3.34E-08	4.94E-09	4.94E-09	2.75E-09	4.85E-08	3.79E-10	5.09E-09	7.71E-10	7.71E-10	4.24E-10	7.43E-09	2.06E-10	2.75E-09	3.43E-10	3.43E-10	1.70E-10	3.81E-09
475	259137.86	4086087.75	2.53E-09	3.38E-08	5.00E-09	5.00E-09	2.79E-09	4.91E-08	3.84E-10	5.15E-09	7.80E-10	7.80E-10	4.29E-10	7.52E-09	2.08E-10	2.78E-09	3.47E-10	3.47E-10	1.72E-10	3.86E-09
476	259115.49	4086098.1	2.56E-09	3.42E-08	5.06E-09	5.06E-09	2.82E-09	4.97E-08	3.89E-10	5.21E-09	7.90E-10	7.90E-10	4.34E-10	7.61E-09	2.11E-10	2.82E-09	3.51E-10	3.51E-10	1.74E-10	3.91E-09
477	259093.11	4086108.45	2.59E-09	3.46E-08	5.12E-09	5.12E-09	2.86E-09	5.03E-08	3.93E-10	5.28E-09	8.00E-10	8.00E-10	4.40E-10	7.71E-09	2.14E-10	2.85E-09	3.56E-10	3.56E-10	1.76E-10	3.96E-09
478	259070.74	4086118.79	2.63E-09	3.51E-08	5.19E-09	5.19E-09	2.90E-09	5.10E-08	3.99E-10	5.35E-09	8.11E-10	8.11E-10	4.46E-10	7.82E-09	2.17E-10	2.89E-09	3.61E-10	3.61E-10	1.79E-10	4.01E-09
479	259048.37	4086129.14	2.67E-09	3.56E-08	5.27E-09	5.27E-09	2.94E-09	5.18E-08	4.05E-10	5.43E-09	8.23E-10	8.23E-10	4.53E-10	7.93E-09	2.20E-10	2.94E-09	3.66E-10	3.66E-10	1.81E-10	4.07E-09
480	259026	4086139.49	2.71E-09	3.62E-08	5.36E-09	5.36E-09	2.99E-09	5.27E-08	4.12E-10	5.52E-09	8.37E-10	8.37E-10	4.60E-10	8.07E-09	2.24E-10	2.99E-09	3.73E-10	3.73E-10	1.84E-10	4.14E-09
481	259003.63	4086149.83	2.76E-09	3.69E-08	5.46E-09	5.46E-09	3.05E-09	5.37E-08	4.20E-10	5.63E-09	8.53E-10	8.53E-10	4.69E-10	8.22E-09	2.28E-10	3.04E-09	3.80E-10	3.80E-10	1.88E-10	4.22E-09
482	258981.26	4086160.18	2.82E-09	3.77E-08	5.58E-09	5.58E-09	3.11E-09	5.48E-08	4.28E-10	5.74E-09	8.71E-10	8.71E-10	4.79E-10	8.39E-09	2.33E-10	3.11E-09	3.87E-10	3.87E-10	1.92E-10	4.31E-09
483	258958.89	4086170.52	2.89E-09	3.85E-08	5.70E-09	5.70E-09	3.18E-09	5.60E-08	4.38E-10	5.87E-09	8.90E-10	8.90E-10	4.89E-10	8.58E-09	2.38E-10	3.18E-09	3.96E-10	3.96E-10	1.96E-10	4.40E-09
484	258936.52	4086180.87	2.95E-09	3.94E-08	5.83E-09	5.83E-09	3.25E-09	5.73E-08	4.48E-10	6.01E-09	9.11E-10	9.11E-10	5.01E-10	8.78E-09	2.43E-10	3.25E-09	4.05E-10	4.05E-10	2.01E-10	4.50E-09
485	258914.15	4086191.22	3.02E-09	4.03E-08	5.97E-09	5.97E-09	3.33E-09	5.86E-08	4.58E-10	6.15E-09	9.32E-10	9.32E-10	5.12E-10	8.98E-09	2.49E-10	3.33E-09	4.15E-10	4.15E-10	2.05E-10	4.61E-09
486	258891.77	4086201.56	3.09E-09	4.12E-08	6.10E-09	6.10E-09	3.40E-09	5.99E-08	4.68E-10	6.28E-09	9.52E-10	9.52E-10	5.24E-10	9.18E-09	2.54E-10	3.40E-09	4.24E-10	4.24E-10	2.10E-10	4.71E-09
487	258869.4	4086211.91	3.15E-09	4.21E-08	6.23E-09	6.23E-09	3.47E-09	6.12E-08	4.78E-10	6.41E-09	9.72E-10	9.72E-10	5.34E-10	9.37E-09	2.60E-10	3.47E-09	4.32E-10	4.32E-10	2.14E-10	4.81E-09
488	258847.03	4086222.26	3.20E-09	4.28E-08	6.33E-09	6.33E-09	3.53E-09	6.22E-08	4.86E-10	6.52E-09	9.89E-10	9.89E-10	5.44E-10	9.53E-09	2.64E-10	3.53E-09	4.40E-10	4.40E-10	2.18E-10	4.89E-09
489	258824.66	4086232.6	3.25E-09	4.34E-08	6.43E-09	6.43E-09	3.58E-09	6.31E-08	4.94E-10	6.62E-09	1.00E-09	1.00E-09	5.52E-10	9.67E-09	2.68E-10	3.58E-09	4.47E-10	4.47E-10	2.21E-10	4.96E-09
490	258802.29	4086242.95	3.29E-09	4.40E-08	6.50E-09	6.50E-09	3.63E-09	6.39E-08	5.00E-10	6.70E-09	1.02E-09	1.02E-09	5.58E-10	9.79E-09	2.71E-10	3.62E-09	4.52E-10	4.52E-10	2.24E-10	5.02E-09
491	258779.92	4086253.3	3.32E-09	4.44E-08	6.57E-09	6.57E-09	3.66E-09	6.45E-08	5.04E-10	6.76E-09	1.03E-09	1.03E-09	5.64E-10	9.88E-09	2.74E-10	3.66E-09	4.56E-10	4.56E-10	2.26E-10	5.07E-09
492	258757.55	4086263.64	3.35E-09	4.47E-08	6.62E-09	6.62E-09	3.69E-09	6.50E-08	5.08E-10	6.81E-09	1.03E-09	1.03E-09	5.68E-10	9.96E-09	2.76E-10	3.69E-09	4.60E-10	4.60E-10	2.28E-10	5.11E-09
493	258735.18	4086273.99	3.37E-09	4.50E-08	6.66E-09	6.66E-09	3.71E-09	6.55E-08	5.12E-10	6.86E-09	1.04E-09	1.04E-09	5.72E-10	1.00E-08	2.78E-10	3.71E-09	4.63E-10	4.63E-10	2.29E-10	5.15E-09
494	258712.81	4086284.33	3.39E-09	4.53E-08	6.70E-09	6.70E-09	3.74E-09	6.58E-08	5.15E-10	6.90E-09	1.05E-09	1.05E-09	5.75E-10	1.01E-08	2.80E-10	3.73E-09	4.66E-10	4.66E-10	2.30E-10	5.18E-09
495	258690.43	4086294.68	3.41E-09	4.56E-08	6.74E-09	6.74E-09	3.76E-09	6.62E-08	5.18E-10	6.94E-09	1.05E-09	1.05E-09	5.79E-10	1.01E-08	2.81E-10	3.76E-09	4.68E-10	4.68E-10	2.32E-10	5.21E-09
496	258668.06	4086305.03	3.44E-09	4.59E-08	6.79E-09	6.79E-09	3.78E-09	6.67E-08	5.21E-10	6.99E-09	1.06E-09	1.06E-09	5.83E-10	1.02E-08	2.83E-10	3.78E-09	4.72E-10	4.72E-10	2.33E-10	5.24E-09
497	258645.69	4086315.37	3.46E-09	4.62E-08	6.84E-09	6.84E-09	3.81E-09	6.72E-08	5.25E-10	7.04E-09	1.07E-09	1.07E-09	5.87E-10	1.03E-08	2.85E-10	3.81E-09	4.75E-10	4.75E-10	2.35E-10	5.28E-09
498	258623.32	4086325.72	3.49E-09	4.66E-08	6.90E-09	6.90E-09	3.84E-09	6.77E-08	5.30E-10	7.10E-09	1.08E-09	1.08E-09	5.92E-10	1.04E-08	2.88E-10	3.84E-09	4.79E-10	4.79E-10	2.37E-10	5.32E-09
499	258600.95	4086336.07	3.52E-09	4.70E-08	6.96E-09	6.96E-09	3.88E-09	6.84E-08	5.35E-10	7.17E-09	1.09E-09	1.09E-09	5.97E-10	1.05E-08	2.90E-10	3.88E-09	4.84E-10	4.84E-10	2.39E-10	5.37E-09
500	258578.58	4086346.41	3.56E-09	4.75E-08	7.03E-09	7.03E-09	3.92E-09	6.91E-08	5.40E-10	7.24E-09	1.10E-09	1.10E-09	6.04E-10	1.06E-08	2.93E-10	3.92E-09	4.89E-10	4.89E-10	2.42E-10	5.43E-09
501	258556.21	4086356.76	3.60E-09	4.81E-08	7.11E-09	7.11E-09	3.96E-09	6.98E-08	5.46E-10	7.32E-09	1.11E-09	1.11E-09	6.10E-10	1.07E-08	2.97E-10	3.96E-09	4.94E-10	4.94E-10	2.44E-10	5.49E-09
502	258533.84	4086367.11	3.64E-09	4.86E-08	7.19E-09	7.19E-09	4.01E-09	7.07E-08	5.52E-10	7.41E-09	1.12E-09	1.12E-09	6.17E-10	1.08E-08	3.00E-10	4.01E-09	5.00E-10	5.00E-10	2.47E-10	5.55E-09
503	258511.47	4086377.45	3.68E-09	4.92E-08	7.28E-09	7.28E-09	4.06E-09	7.15E-08	5.59E-10	7.49E-09	1.14E-09	1.14E-09	6.25E-10	1.10E-08	3.04E-10	4.06E-09	5.06E-10	5.06E-10	2.50E-10	5.62E-09
504	258489.09	4086387.8	3.73E-09	4.98E-08	7.37E-09	7.37E-09	4.11E-09	7.24E-08	5.66E-10	7.59E-09	1.15E-09	1.15E-09	6.32E-10	1.11E-08	3.07E-10	4.10E-09	5.12E-10	5.12E-10	2.53E-10	5.69E-09
505	258466.72	4086398.14	3.77E-09	5.04E-08	7.46E-09	7.46E-09	4.16E-09	7.33E-08	5.73E-10	7.68E-09	1.16E-09	1.16E-09	6.40E-10	1.12E-08	3.11E-10	4.16E-09	5.18E-10	5.18E-10	2.56E-10	5.76E-09
506	258444.35	4086408.49	3.82E-09	5.10E-08	7.55E-09	7.55E-09	4.21E-09	7.41E-08	5.80E-10	7.77E-09	1.18E-09	1.18E-09	6.48E-10	1.14E-08	3.15E-10	4.21E-09	5.24E-10	5.24E-10	2.60E-10	5.83E-09
507	259663.91	4085082.19	3.80E-09	5.07E-08	7.51E-09	7.51E-09	4.19E-09	7.37E-08	5.77E-10	7.73E-09	1.17E-09	1.17E-09	6.45E-10	1.13E-08	3.13E-10	4.18E-09	5.22E-10	5.22E-10	2.58E-10	5.80E-09
508	259663.18	4085057.43	3.86E-09	5.15E-08	7.62E-09	7.62E-09	4.25E-09	7.49E-08	5.85E-10	7.85E-09	1.19E-09	1.19E-09	6.54E-10	1.15E-08	3.18E-10	4.25E-09	5.29E-10	5.29E-10	2.62E-10	5.89E-09
509	259662.46	4085032.67	3.93E-09	5.25E-08	7.76E-09	7.76E-09	4.33E-09	7.62E-08	5.96E-10	7.99E-09	1.21E-09	1.21E-09	6.66E-10	1.17E-08	3.24E-10	4.32E-09	5.39E-10	5.39E-10	2.67E-10	5.99E-09
510	259661.74	4085007.92	4.01E-09	5.36E-08	7.93E-09	7.93E-09	4.42E-09	7.79E-08	6.09E-10	8.17E-09	1.24E-09	1.24E-09	6.81E-10	1.19E-08	3.31E-10	4.42E-09	5.51E-10	5.51E-10	2.73E-10	6.13E-09
511	259661.02	4084983.16	4.12E-09	5.50E-08	8.14E-09	8.14E-09	4.54E-09	7.99E-08	6.25E-10	8.38E-09	1.27E-09	1.27E-09	6.99E-10	1.22E-08	3.39E-10	4.53E-09	5.65E-10	5.65E-10	2.80E-10	6.28E-09
512	259660.29	4084958.4	4.24E-09	5.66E-08	8.38E-09	8.38E-09	4.67E-09	8.23E-08	6.44E-10	8.63E-09	1.31E-09	1.31E-09	7.19E-10	1.26E-08	3.50E-10	4.67E-09	5.82E-10	5.82E-10	2.88E-10	6.47E-09
513	259659.57	4084933.65	4.38E-09	5.84E-08	8.65E-09	8.65E-09	4.82E-09	8.49E-08	6.64E-10	8.90E-09	1.35E-09	1.35E-09	7.42E-10	1.30E-08	3.61E-10	4.82E-09	6.01E-10	6.01E-10	2.97E-10	6.68E-09
514	259658.85	4084908.89	4.51E-09	6.03E-08	8.92E-09	8.92E-09	4.97E-09	8.76E-08	6.85E-10	9.19E-09	1.39E-09	1.39E-09	7.66E-10	1.34E-08	3.72E-10	4.97E-09	6.20E-10	6.20E-10	3.07E-10	6.89E-09
515	259658.13	4084884.14	4.65E-09	6.22E-08	9.20E-09	9.20E-09	5.13E-09	9.03E-08	7.06E-10	9.47E-09	1.44E-09	1.44E-09	7.90E-10	1.38E-08	3.84E-10	5.12E-09	6.39E-10	6.39E-10	3.16E-10	7.10E-09
516	259855.12	4085099.5	3.17E-09	4.23E-08	6.26E-09	6.26E-09	3.49E-09	6.15E-08	4.81E-10	6.45E-09	9.77E-10	9.77E-10	5.37E-10	9.42E-09	2.61E-10	3.49E-09	4.35E-10	4.35E-10	2.15E-10	4.83E-09
517	259846.41	4085122.65	3.17E-09	4.23E-08	6.26E-09	6.26E-09	3.49E-09	6.15E-08	4.80E-10	6.44E-09	9.77E-10	9.77E-10	5.37E-10	9.41E-09	2.61E-10	3.49E-09	4.35E-10	4.35E-10	2.15E-10	4.83E-09
518	259837.7	4085145.79	3.17E-09	4.23E-08	6.26E-09	6.26E-09	3.49E-09	6.15E-08	4.80E-10	6.44E-09	9.77E-10	9.77E-10	5.37E-10	9.41E-09	2.61E-10	3.49E-09	4.35E-10	4.35E-10	2.15E-10	4.83E-09
519	259829	4085168.94	3.16E-09	4.22E-08	6.25E-09	6.25E-09	3.48E-09	6.14E-08	4.80E-10	6.43E-09	9.75E-10	9.75E-10	5.36E-10	9.40E-09	2.61E-10	3.48E-09	4.34E-10	4.34E-10	2.15E-10	4.82E-09
520	259820.29	4085192.09	3.15E-09	4.21E-08	6.23E-09	6.23E-09	3.48E-09	6.12E-08	4.79E-10	6.42E-09	9.73E-10	9.73E-10	5.35E-10	9.38E-09	2.60E-10	3.47E-09	4.33E-10	4.33E-10	2.14E-10	4.81E-09
521	259811.59	4085215.23	3.14E-09	4.20E-08	6.21E-09	6.21E-09	3.46E-09	6.10E-08	4.77E-10	6.39E-09	9.69E-10	9.69E-10	5.33E-10	9.34E-09	2.59E-10	3.46E-09	4.31E-10	4.31E-10	2.13E-10	4.79E-09
522	259802.88	4085238.38	3.12E-09	4.16E-08	6.16E-09	6.16E-09	3.44E-09	6.05E-08	4.73E-10	6.34E-09	9.62E-10	9.62E-10	5.29E-10	9.27E-09	2.57E-10	3.43E-09	4.28E-10	4.28E-10	2.12E-10	4.76E-09
523	259794.17	4085261.53	3.09E-09	4.12E-08	6.10E-09	6.10E-09	3.40E-09	5.99E-08	4.68E-10	6.28E-09	9.52E-10	9.52E-10	5.23E-10	9.17E-09	2.54E-10	3.40E-09	4.24E-10	4.24E-10	2.10E-10	4.71E-09
524	259785.47	4085284.68	3.04E-09	4.07E-08	6.01E-09	6.01E-09	3.35E-09	5.91E-08	4.62E-10	6.19E-09	9.39E-10	9.39E-10	5.16E-10	9.05E-09	2.51E-10	3.35E-09	4.18E-10	4.18E-10	2.07E-10	4.64E-09
525	259776.76	4085307.82	3.00E-09	4.00E-08	5.92E-09	5.92E-09	3.30E-09	5.81E-08	4.55E-10	6.10E-09	9.24E-10	9.24E-10	5.08E-10	8.91E-09	2.47E-10	3.30E-09	4.11E-10	4.11E-10	2.04E-10	4.57E-09
526	259768.05	4085330.97	2.94E-09	3.93E-08	5.82E-09	5.82E-09	3.24E-09	5.72E-08	4.47E-10	5.99E-09	9.08E-10	9.08E-10	4.99E-10	8.75E-09	2.43E-10	3.24E-09	4.04E-10	4.04E-10	2.00E-10	4.49E-09
527	259759.35	4085354.12	2.89E-09	3.86E-08	5.71E-09	5.71E-09	3.18E-09	5.61E-08	4.39E-10	5.88E-09	8.92E-10	8.92E-10	4.90E-10	8.59E-09	2.38E-10	3.18E-09	3.97E-10	3.97E-10	1.96E-10	4.41E-09
528	259750.64	4085377.26	2.84E-09	3.79E-08	5.61E-09	5.61E-09	3.13E-09	5.51E-08	4.31E-10	5.77E-09	8.76E-10	8.76E-10	4.81E-10	8.44E-09	2.34E-10	3.12E-09	3.90E-10	3.90E-10	1.93E-10	4.33E-09
529	259741.94	4085400.41	2.78E-09	3.72E-08	5.50E-09	5.50E-09	3.07E-09	5.41E-08	4.23E-10	5.67E-09	8.59E-10	8.59E-10	4.72E-10	8.28E-09	2.30E-10	3.07E-09	3.82E-10	3.82E-10	1.89E-10	4.25E-09
530	259733.23	4085423.56	2.73E-09	3.65E-08	5.40E-09	5.40E-09	3.01E-09	5.31E-08	4.15E-10	5.56E-09	8.44E-10	8.44E-10	4.64E-10	8.13E-09	2.25E-10	3.01E-09	3.75E-10	3.75E-10	1.86E-10	4.17E-09
531	259724.52	4085446.71	2.69E-09	3.59E-08	5.31E-09	5.31E-09	2.96E-09	5.21E-08	4.08E-10	5.47E-09	8.29E-10	8.29E-10	4.56E-10	7.99E-09	2.21E-10	2.96E-09	3.69E-10	3.69E-10	1.83E-10	4.10E-09
532	259715.82	4085469.85	2.64E-09	3.53E-08	5.22E-09	5.22E-09	2.91E-09	5.13E-08	4.01E-10	5.37E-09	8.15E-10	8.15E-10	4.48E-10	7.85E-09	2.18E-10	2.91E-09	3.63E-10	3.63E-10	1.79E-10	4.03E-09
533	259707.11	4085493	2.60E-09	3.47E-08	5.14E-09	5.14E-09	2.86E-09	5.04E-08	3.94E-10	5.29E-09	8.02E-10	8.02E-10	4.41E-10	7.73E-09	2.14E-10	2.86E-09	3.57E-10	3.57E-10	1.77E-10	3.97E-09
534	259698.41	4085516.15	2.56E-09	3.42E-08	5.06E-09	5.06E-09	2.82E-09	4.97E-08	3.89E-10	5.21E-09	7.90E-10	7.90E-10	4.35E-10	7.62E-09	2.11E-10	2.82E-09	3.52E-10	3.52E-10	1.74E-10	3.91E-09
535	259689.7	4085539.29	2.53E-09	3.37E-08	4.99E-09	4.99E-09	2.78E-09	4.90E-08	3.83E-10	5.14E-09	7.79E-10	7.79E-10	4.29E-10	7.51E-09	2.08E-10	2.78E-09	3.47E-10	3.47E-10	1.72E-10	3.85E-09
536	259680.99	4085562.44	2.50E-09	3.34E-08	4.94E-09	4.94E-09	2.75E-09	4.85E-08	3.79E-10	5.09E-09	7.71E-10	7.71E-10	4.24E-10	7.43E-09	2.06E-10	2.75E-09	3.43E-10	3.43E-10	1.70E-10	3.81E-09
537	259672.29	4085585.59	2.47E-09	3.30E-08	4.89E-09	4.89E-09	2.72E-09	4.80E-08	3.75E-10	5.03E-09	7.63E-10	7.63E-10	4.19E-10	7.35E-09	2.04E-10	2.72E-09	3.39E-10	3.39E-10	1.68E-10	3.77E-09
538	259663.58	4085608.73	2.45E-09	3.27E-08	4.84E-09	4.84E-09	2.70E-09	4.75E-08	3.72E-10	4.98E-09	7.56E-10	7.56E-10	4.15E-10	7.28E-09	2.02E-10	2.70E-09	3.36E-10	3.36E-10	1.66E-10	3.74E-09
539	259654.88	4085631.88	2.43E-09	3.24E-08	4.80E-09	4.80E-09	2.68E-09	4.71E-08	3.69E-10	4.94E-09	7.49E-10	7.49E-10	4.12E-10	7.22E-09	2.00E-10	2.67E-09	3.33E-10	3.33E-10	1.65E-10	3.71E-09
540	259646.17	4085655.03	2.41E-09	3.22E-08	4.77E-09	4.77E-09	2.66E-09	4.68E-08	3.66E-10	4.91E-09	7.44E-10	7.44E-10	4.09E-10	7.17E-09	1.99E-10	2.66E-09	3.31E-10	3.31E-10	1.64E-10	3.68E-09
541	259637.46	4085678.18	2.39E-09	3.20E-08	4.73E-09	4.73E-09	2.64E-09	4.65E-08	3.63E-10	4.87E-09	7.39E-10	7.39E-10	4.06E-10	7.12E-09	1.97E-10	2.64E-09	3.29E-10	3.29E-10	1.63E-10	3.65E-09
542	259628.76	4085701.32	2.38E-09	3.18E-08	4.70E-09	4.70E-09	2.62E-09	4.61E-08	3.61E-10	4.84E-09	7.34E-10	7.34E-10	4.03E-10	7.07E-09	1.96E-10	2.62E-09	3.26E-10	3.26E-10	1.62E-10	3.63E-09
543	259620.05	4085724.47	2.36E-09	3.15E-08	4.66E-09	4.66E-09	2.60E-09	4.58E-08	3.58E-10	4.80E-09	7.28E-10	7.28E-10	4.00E-10	7.02E-09	1.95E-10	2.60E-09	3.24E-10	3.24E-10	1.60E-10	3.60E-09
544	259611.35	4085747.62	2.34E-09	3.12E-08	4.62E-09	4.62E-09	2.58E-09	4.54E-08	3.55E-10	4.76E-09	7.22E-10	7.22E-10	3.97E-10	6.95E-09	1.93E-10	2.58E-09	3.21E-10	3.21E-10	1.59E-10	3.57E-09
545	259602.64	4085770.76	2.32E-09	3.10E-08	4.59E-09	4.59E-09	2.56E-09	4.51E-08	3.53E-10	4.73E-09	7.17E-10	7.17E-10	3.94E-10	6.91E-09	1.91E-10	2.56E-09	3.19E-10	3.19E-10	1.58E-10	3.55E-09
546	259593.93	4085793.91	2.31E-09	3.08E-08	4.56E-09	4.56E-09	2.54E-09	4.48E-08	3.50E-10	4.69E-09	7.12E-10	7.12E-10	3.91E-10	6.86E-09	1.90E-10	2.54E-09	3.17E-10	3.17E-10	1.57E-10	3.52E-09
547	259585.23	4085817.06	2.29E-09	3.06E-08	4.52E-09	4.52E-09	2.52E-09	4.44E-08	3.47E-10	4.66E-09	7.06E-10	7.06E-10	3.88E-10	6.80E-09	1.89E-10	2.52E-09	3.14E-10	3.14E-10	1.55E-10	3.49E-09
548	259576.52	4085840.21	2.27E-09	3.03E-08	4.48E-09	4.48E-09	2.50E-09	4.40E-08	3.44E-10	4.62E-09	7.00E-10	7.00E-10	3.85E-10	6.75E-09	1.87E-10	2.50E-09	3.11E-10	3.11E-10	1.54E-10	3.46E-09
549	259567.82	4085863.35	2.25E-09	3.00E-08	4.44E-09	4.44E-09	2.48E-09	4.36E-08	3.41E-10	4.57E-09	6.93E-10	6.93E-10	3.81E-10	6.68E-09	1.85E-10	2.47E-09	3.09E-10	3.09E-10	1.53E-10	3.43E-09
550	259559.11	4085886.5	2.22E-09	2.97E-08	4.39E-09	4.39E-09	2.45E-09	4.31E-08	3.37E-10	4.52E-09	6.86E-10	6.86E-10	3.77E-10	6.61E-09	1.83E-10	2.45E-09	3.05E-10	3.05E-10	1.51E-10	3.39E-09
551	259550.4	4085909.65	2.20E-09	2.93E-08	4.34E-09	4.34E-09	2.42E-09	4.26E-08	3.33E-10	4.47E-09	6.78E-10	6.78E-10	3.73E-10	6.53E-09	1.81E-10	2.42E-09	3.02E-10	3.02E-10	1.49E-10	3.35E-09
552	259541.7	4085932.79	2.17E-09	2.90E-08	4.29E-09	4.29E-09	2.39E-09	4.21E-08	3.29E-10	4.41E-09	6.69E-10	6.69E-10	3.68E-10	6.45E-09	1.79E-10	2.39E-09	2.98E-10	2.98E-10	1.47E-10	3.31E-09
553	259532.99	4085955.94	2.14E-09	2.86E-08	4.23E-09	4.23E-09	2.36E-09	4.15E-08	3.25E-10	4.35E-09	6.60E-10	6.60E-10	3.63E-10	6.36E-09	1.76E-10	2.36E-09	2.94E-10	2.94E-10	1.45E-10	3.26E-09
554	259524.29	4085979.09	2.11E-09	2.82E-08	4.17E-09	4.17E-09	2.32E-09	4.09E-08	3.20E-10	4.29E-09	6.51E-10	6.51E-10	3.58E-10	6.27E-09	1.74E-10	2.32E-09	2.90E-10	2.90E-10	1.43E-10	3.22E-09
555	259515.58	4086002.24	2.08E-09	2.78E-08	4.11E-09	4.11E-09	2.29E-09	4.04E-08	3.16E-10	4.24E-09	6.42E-10	6.42E-10	3.53E-10	6.19E-09	1.72E-10	2.29E-09	2.86E-10	2.86E-10	1.41E-10	3.18E-09
556	259506.87	4086025.38	2.06E-09	2.75E-08	4.06E-09	4.06E-09	2.26E-09	3.99E-08	3.12E-10	4.18E-09	6.34E-10	6.34E-10	3.49E-10	6.11E-09	1.69E-10	2.26E-09	2.82E-10	2.82E-10	1.40E-10	3.14E-09
557	259498.17	4086048.53	2.03E-09	2.71E-08	4.01E-09	4.01E-09	2.24E-09	3.94E-08	3.08E-10	4.13E-09	6.27E-10	6.27E-10	3.44E-10	6.04E-09	1.67E-10	2.24E-09	2.79E-10	2.79E-10	1.38E-10	3.10E-09
558	259489.46	4086071.68	2.01E-09	2.69E-08	3.97E-09	3.97E-09	2.21E-09	3.90E-08	3.05E-10	4.09E-09	6.20E-10	6.20E-10	3.41E-10	5.98E-09	1.66E-10	2.21E-09	2.76E-10	2.76E-10	1.37E-10	3.07E-09
559	259480.75	4086094.82	1.99E-09	2.66E-08	3.94E-09	3.94E-09	2.19E-09	3.87E-08	3.02E-10	4.05E-09	6.15E-10	6.15E-10	3.38E-10	5.92E-09	1.64E-10	2.19E-09	2.73E-10	2.73E-10	1.35E-10	3.04E-09
560	259472.05	4086117.97	1.97E-09	2.64E-08	3.90E-09	3.90E-09	2.18E-09	3.83E-08	3.00E-10	4.02E-09	6.09E-10	6.09E-10	3.35E-10	5.87E-09	1.63E-10	2.17E-09	2.71E-10	2.71E-10	1.34E-10	3.01E-09
561	259440.9	4086151.5	1.98E-09	2.64E-08	3.91E-09	3.91E-09	2.18E-09	3.84E-08	3.00E-10	4.02E-09	6.10E-10	6.10E-10	3.35E-10	5.88E-09	1.63E-10	2.18E-09	2.71E-10	2.71E-10	1.34E-10	3.02E-09
562	259418.45	4086161.88	1.99E-09	2.66E-08	3.94E-09	3.94E-09	2.20E-09	3.87E-08	3.03E-10	4.06E-09	6.16E-10	6.16E-10	3.38E-10	5.93E-09	1.64E-10	2.20E-09	2.74E-10	2.74E-10	1.36E-10	3.04E-09
563	259396.01	4086172.26	2.02E-09	2.69E-08	3.98E-09	3.98E-09	2.22E-09	3.91E-08	3.06E-10	4.10E-09	6.22E-10	6.22E-10	3.42E-10	5.99E-09	1.66E-10	2.22E-09	2.77E-10	2.77E-10	1.37E-10	3.07E-09
564	259373.56	4086182.64	2.04E-09	2.72E-08	4.02E-09	4.02E-09	2.24E-09	3.95E-08	3.09E-10	4.14E-09	6.28E-10	6.28E-10	3.45E-10	6.05E-09	1.68E-10	2.24E-09	2.79E-10	2.79E-10	1.38E-10	3.11E-09
565	259351.11	4086193.02	2.06E-09	2.75E-08	4.06E-09	4.06E-09	2.27E-09	3.99E-08	3.12E-10	4.19E-09	6.35E-10	6.35E-10	3.49E-10	6.12E-09	1.70E-10	2.26E-09	2.82E-10	2.82E-10	1.40E-10	3.14E-09
566	259328.67	4086203.4	2.08E-09	2.77E-08	4.10E-09	4.10E-09	2.29E-09	4.03E-08	3.15E-10	4.23E-09	6.41E-10	6.41E-10	3.52E-10	6.18E-09	1.71E-10	2.29E-09	2.85E-10	2.85E-10	1.41E-10	3.17E-09
567	259306.22	4086213.78	2.10E-09	2.80E-08	4.15E-09	4.15E-09	2.31E-09	4.07E-08	3.19E-10	4.27E-09	6.48E-10	6.48E-10	3.56E-10	6.24E-09	1.73E-10	2.31E-09	2.88E-10	2.88E-10	1.43E-10	3.20E-09
568	259283.78	4086224.17	2.12E-09	2.83E-08	4.19E-09	4.19E-09	2.34E-09	4.12E-08	3.22E-10	4.31E-09	6.54E-10	6.54E-10	3.60E-10	6.30E-09	1.75E-10	2.33E-09	2.91E-10	2.91E-10	1.44E-10	3.24E-09
569	259261.33	4086234.55	2.14E-09	2.86E-08	4.24E-09	4.24E-09	2.36E-09	4.16E-08	3.25E-10	4.36E-09	6.61E-10	6.61E-10	3.64E-10	6.37E-09	1.77E-10	2.36E-09	2.94E-10	2.94E-10	1.46E-10	3.27E-09
570	259238.88	4086244.93	2.17E-09	2.90E-08	4.29E-09	4.29E-09	2.39E-09	4.21E-08	3.29E-10	4.41E-09	6.69E-10	6.69E-10	3.68E-10	6.45E-09	1.79E-10	2.39E-09	2.98E-10	2.98E-10	1.47E-10	3.31E-09
571	259216.44	4086255.31	2.19E-09	2.93E-08	4.34E-09	4.34E-09	2.42E-09	4.26E-08	3.33E-10	4.47E-09	6.77E-10	6.77E-10	3.72E-10	6.53E-09	1.81E-10	2.42E-09	3.01E-10	3.01E-10	1.49E-10	3.35E-09
572	259193.99	4086265.69	2.22E-09	2.97E-08	4.39E-09	4.39E-09	2.45E-09	4.31E-08	3.37E-10	4.52E-09	6.86E-10	6.86E-10	3.77E-10	6.61E-09	1.83E-10	2.45E-09	3.05E-10	3.05E-10	1.51E-10	3.39E-09
573	259171.55	4086276.07	2.25E-09	3.01E-08	4.45E-09	4.45E-09	2.48E-09	4.37E-08	3.42E-10	4.59E-09	6.95E-10	6.95E-10	3.82E-10	6.70E-09	1.86E-10	2.48E-09	3.09E-10	3.09E-10	1.53E-10	3.44E-09
574	259149.1	4086286.45	2.29E-09	3.06E-08	4.52E-09	4.52E-09	2.52E-09	4.44E-08	3.47E-10	4.66E-09	7.06E-10	7.06E-10	3.88E-10	6.80E-09	1.89E-10	2.52E-09	3.14E-10	3.14E-10	1.55E-10	3.49E-09
575	259126.65	4086296.83	2.32E-09	3.11E-08	4.59E-09	4.59E-09	2.56E-09	4.51E-08	3.53E-10	4.73E-09	7.17E-10	7.17E-10	3.94E-10	6.91E-09	1.92E-10	2.56E-09	3.19E-10	3.19E-10	1.58E-10	3.55E-09
576	259104.21	4086307.21	2.37E-09	3.16E-08	4.68E-09	4.68E-09	2.61E-09	4.59E-08	3.59E-10	4.82E-09	7.30E-10	7.30E-10	4.01E-10	7.04E-09	1.95E-10	2.61E-09	3.25E-10	3.25E-10	1.61E-10	3.61E-09
577	259081.76	4086317.59	2.41E-09	3.22E-08	4.77E-09	4.77E-09	2.66E-09	4.68E-08	3.66E-10	4.91E-09	7.45E-10	7.45E-10	4.09E-10	7.18E-09	1.99E-10	2.66E-09	3.31E-10	3.31E-10	1.64E-10	3.68E-09
578	259059.32	4086327.97	2.46E-09	3.29E-08	4.87E-09	4.87E-09	2.71E-09	4.78E-08	3.74E-10	5.01E-09	7.60E-10	7.60E-10	4.18E-10	7.32E-09	2.03E-10	2.71E-09	3.38E-10	3.38E-10	1.67E-10	3.76E-09
579	259036.87	4086338.36	2.52E-09	3.36E-08	4.97E-09	4.97E-09	2.77E-09	4.88E-08	3.82E-10	5.12E-09	7.76E-10	7.76E-10	4.27E-10	7.48E-09	2.07E-10	2.77E-09	3.45E-10	3.45E-10	1.71E-10	3.84E-09
580	259014.42	4086348.74	2.57E-09	3.43E-08	5.08E-09	5.08E-09	2.83E-09	4.99E-08	3.90E-10	5.23E-09	7.93E-10	7.93E-10	4.36E-10	7.64E-09	2.12E-10	2.83E-09	3.53E-10	3.53E-10	1.75E-10	3.92E-09
581	258991.98	4086359.12	2.62E-09	3.50E-08	5.19E-09	5.19E-09	2.89E-09	5.09E-08	3.98E-10	5.34E-09	8.10E-10	8.10E-10	4.45E-10	7.80E-09	2.16E-10	2.89E-09	3.60E-10	3.60E-10	1.78E-10	4.00E-09
582	258969.53	4086369.5	2.67E-09	3.57E-08	5.29E-09	5.29E-09	2.95E-09	5.19E-08	4.06E-10	5.44E-09	8.25E-10	8.25E-10	4.54E-10	7.95E-09	2.20E-10	2.95E-09	3.67E-10	3.67E-10	1.82E-10	4.08E-09
583	258947.09	4086379.88	2.72E-09	3.64E-08	5.38E-09	5.38E-09	3.00E-09	5.29E-08	4.13E-10	5.54E-09	8.40E-10	8.40E-10	4.62E-10	8.10E-09	2.24E-10	3.00E-09	3.74E-10	3.74E-10	1.85E-10	4.16E-09
584	258924.64	4086390.26	2.76E-09	3.69E-08	5.46E-09	5.46E-09	3.04E-09	5.36E-08	4.19E-10	5.62E-09	8.53E-10	8.53E-10	4.69E-10	8.22E-09	2.28E-10	3.04E-09	3.79E-10	3.79E-10	1.88E-10	4.22E-09
585	258902.19	4086400.64	2.80E-09	3.74E-08	5.53E-09	5.53E-09	3.08E-09	5.43E-08	4.25E-10	5.69E-09	8.63E-10	8.63E-10	4.75E-10	8.32E-09	2.31E-10	3.08E-09	3.84E-10	3.84E-10	1.90E-10	4.27E-09
586	258879.75	4086411.02	2.83E-09	3.77E-08	5.58E-09	5.58E-09	3.11E-09	5.48E-08	4.29E-10	5.75E-09	8.72E-10	8.72E-10	4.79E-10	8.40E-09	2.33E-10	3.11E-09	3.88E-10	3.88E-10	1.92E-10	4.31E-09

587	258857.3	4086421.4	2.85E-09	3.80E-08	5.63E-09	5.63E-09	3.14E-09	5.53E-08	4.32E-10	5.79E-09	8.78E-10	8.78E-10	4.83E-10	8.46E-09	2.35E-10	3.13E-09	3.91E-10	3.91E-10	1.93E-10	4.34E-09
588	258834.86	4086431.78	2.86E-09	3.83E-08	5.66E-09	5.66E-09	3.16E-09	5.56E-08	4.35E-10	5.83E-09	8.84E-10	8.84E-10	4.86E-10	8.52E-09	2.36E-10	3.15E-09	3.93E-10	3.93E-10	1.95E-10	4.37E-09
589	258812.41	4086442.16	2.88E-09	3.85E-08	5.69E-09	5.69E-09	3.17E-09	5.59E-08	4.37E-10	5.86E-09	8.88E-10	8.88E-10	4.88E-10	8.56E-09	2.37E-10	3.17E-09	3.95E-10	3.95E-10	1.96E-10	4.39E-09
590	258789.97	4086452.55	2.89E-09	3.86E-08	5.71E-09	5.71E-09	3.19E-09	5.61E-08	4.39E-10	5.88E-09	8.92E-10	8.92E-10	4.91E-10	8.60E-09	2.38E-10	3.18E-09	3.97E-10	3.97E-10	1.96E-10	4.41E-09
591	258767.52	4086462.93	2.91E-09	3.88E-08	5.74E-09	5.74E-09	3.20E-09	5.64E-08	4.41E-10	5.91E-09	8.97E-10	8.97E-10	4.93E-10	8.64E-09	2.39E-10	3.20E-09	3.99E-10	3.99E-10	1.97E-10	4.43E-09
592	258745.07	4086473.31	2.92E-09	3.90E-08	5.77E-09	5.77E-09	3.22E-09	5.67E-08	4.43E-10	5.94E-09	9.01E-10	9.01E-10	4.95E-10	8.68E-09	2.41E-10	3.21E-09	4.01E-10	4.01E-10	1.98E-10	4.46E-09
593	258722.63	4086483.69	2.94E-09	3.92E-08	5.80E-09	5.80E-09	3.23E-09	5.70E-08	4.45E-10	5.97E-09	9.06E-10	9.06E-10	4.98E-10	8.73E-09	2.42E-10	3.23E-09	4.03E-10	4.03E-10	1.99E-10	4.48E-09
594	258700.18	4086494.07	2.95E-09	3.94E-08	5.83E-09	5.83E-09	3.25E-09	5.73E-08	4.48E-10	6.01E-09	9.11E-10	9.11E-10	5.01E-10	8.78E-09	2.43E-10	3.25E-09	4.05E-10	4.05E-10	2.01E-10	4.50E-09
595	258677.74	4086504.45	2.97E-09	3.97E-08	5.87E-09	5.87E-09	3.27E-09	5.77E-08	4.51E-10	6.05E-09	9.17E-10	9.17E-10	5.04E-10	8.84E-09	2.45E-10	3.27E-09	4.08E-10	4.08E-10	2.02E-10	4.54E-09
596	258655.29	4086514.83	3.00E-09	4.00E-08	5.92E-09	5.92E-09	3.30E-09	5.81E-08	4.55E-10	6.10E-09	9.24E-10	9.24E-10	5.08E-10	8.91E-09	2.47E-10	3.30E-09	4.11E-10	4.11E-10	2.04E-10	4.57E-09
597	258632.84	4086525.21	3.02E-09	4.03E-08	5.97E-09	5.97E-09	3.33E-09	5.86E-08	4.58E-10	6.15E-09	9.32E-10	9.32E-10	5.12E-10	8.98E-09	2.49E-10	3.33E-09	4.15E-10	4.15E-10	2.05E-10	4.61E-09
598	258610.4	4086535.59	3.05E-09	4.07E-08	6.02E-09	6.02E-09	3.36E-09	5.91E-08	4.62E-10	6.20E-09	9.40E-10	9.40E-10	5.17E-10	9.06E-09	2.51E-10	3.35E-09	4.18E-10	4.18E-10	2.07E-10	4.65E-09
599	258587.95	4086545.97	3.08E-09	4.11E-08	6.08E-09	6.08E-09	3.39E-09	5.97E-08	4.67E-10	6.26E-09	9.49E-10	9.49E-10	5.22E-10	9.15E-09	2.54E-10	3.39E-09	4.22E-10	4.22E-10	2.09E-10	4.69E-09
600	258565.51	4086556.36	3.11E-09	4.15E-08	6.14E-09	6.14E-09	3.42E-09	6.03E-08	4.72E-10	6.32E-09	9.59E-10	9.59E-10	5.27E-10	9.24E-09	2.56E-10	3.42E-09	4.27E-10	4.27E-10	2.11E-10	4.74E-09
601	258543.06	4086566.74	3.14E-09	4.19E-08	6.20E-09	6.20E-09	3.46E-09	6.09E-08	4.76E-10	6.39E-09	9.69E-10	9.69E-10	5.33E-10	9.34E-09	2.59E-10	3.46E-09	4.31E-10	4.31E-10	2.13E-10	4.79E-09
602	258520.61	4086577.12	3.17E-09	4.24E-08	6.27E-09	6.27E-09	3.49E-09	6.16E-08	4.81E-10	6.45E-09	9.79E-10	9.79E-10	5.38E-10	9.43E-09	2.61E-10	3.49E-09	4.35E-10	4.35E-10	2.16E-10	4.84E-09
603	258498.17	4086587.5	3.20E-09	4.28E-08	6.33E-09	6.33E-09	3.53E-09	6.22E-08	4.86E-10	6.52E-09	9.89E-10	9.89E-10	5.44E-10	9.53E-09	2.64E-10	3.53E-09	4.40E-10	4.40E-10	2.18E-10	4.89E-09
604	258475.72	4086597.88	3.24E-09	4.32E-08	6.39E-09	6.39E-09	3.56E-09	6.28E-08	4.91E-10	6.58E-09	9.98E-10	9.98E-10	5.49E-10	9.62E-09	2.67E-10	3.56E-09	4.44E-10	4.44E-10	2.20E-10	4.94E-09
605	258453.28	4086608.26	3.26E-09	4.36E-08	6.45E-09	6.45E-09	3.60E-09	6.34E-08	4.96E-10	6.64E-09	1.01E-09	1.01E-09	5.54E-10	9.71E-09	2.69E-10	3.59E-09	4.48E-10	4.48E-10	2.22E-10	4.98E-09
606	259863.82	4085076.35	3.17E-09	4.24E-08	6.27E-09	6.27E-09	3.49E-09	6.16E-08	4.81E-10	6.45E-09	9.79E-10	9.79E-10	5.38E-10	9.43E-09	2.61E-10	3.49E-09	4.35E-10	4.35E-10	2.16E-10	4.84E-09
607	259863.1	4085051.6	3.21E-09	4.29E-08	6.35E-09	6.35E-09	3.54E-09	6.23E-08	4.87E-10	6.53E-09	9.91E-10	9.91E-10	5.45E-10	9.55E-09	2.65E-10	3.54E-09	4.41E-10	4.41E-10	2.18E-10	4.90E-09
608	259862.38	4085026.84	3.26E-09	4.35E-08	6.44E-09	6.44E-09	3.59E-09	6.33E-08	4.95E-10	6.63E-09	1.01E-09	1.01E-09	5.53E-10	9.69E-09	2.69E-10	3.59E-09	4.48E-10	4.48E-10	2.22E-10	4.98E-09
609	259861.65	4085002.08	3.33E-09	4.44E-08	6.57E-09	6.57E-09	3.66E-09	6.45E-08	5.05E-10	6.77E-09	1.03E-09	1.03E-09	5.64E-10	9.89E-09	2.74E-10	3.66E-09	4.57E-10	4.57E-10	2.26E-10	5.07E-09
610	259860.93	4084977.33	3.40E-09	4.55E-08	6.73E-09	6.73E-09	3.75E-09	6.61E-08	5.17E-10	6.93E-09	1.05E-09	1.05E-09	5.78E-10	1.01E-08	2.81E-10	3.75E-09	4.67E-10	4.67E-10	2.31E-10	5.19E-09
611	259860.21	4084952.57	3.49E-09	4.67E-08	6.91E-09	6.91E-09	3.85E-09	6.78E-08	5.30E-10	7.11E-09	1.08E-09	1.08E-09	5.93E-10	1.04E-08	2.88E-10	3.85E-09	4.80E-10	4.80E-10	2.37E-10	5.33E-09
612	259859.49	4084927.81	3.59E-09	4.80E-08	7.10E-09	7.10E-09	3.96E-09	6.98E-08	5.46E-10	7.32E-09	1.11E-09	1.11E-09	6.10E-10	1.07E-08	2.96E-10	3.96E-09	4.94E-10	4.94E-10	2.44E-10	5.49E-09
613	259858.76	4084903.06	3.70E-09	4.94E-08	7.32E-09	7.32E-09	4.08E-09	7.19E-08	5.62E-10	7.53E-09	1.14E-09	1.14E-09	6.28E-10	1.10E-08	3.05E-10	4.08E-09	5.08E-10	5.08E-10	2.52E-10	5.65E-09
614	259858.04	4084878.3	3.81E-09	5.09E-08	7.53E-09	7.53E-09	4.20E-09	7.39E-08	5.78E-10	7.75E-09	1.18E-09	1.18E-09	6.46E-10	1.13E-08	3.14E-10	4.19E-09	5.23E-10	5.23E-10	2.59E-10	5.81E-09
615	258357.65	4084897.08	3.69E-07	4.93E-06	7.30E-07	7.30E-07	4.07E-07	7.17E-06	5.61E-08	7.52E-07	1.14E-07	1.14E-07	6.27E-08	1.10E-06	3.05E-08	4.07E-07	5.07E-08	5.07E-08	2.51E-08	5.64E-07
616	258333.32	4084898.08	3.87E-07	5.17E-06	7.64E-07	7.64E-07	4.26E-07	7.51E-06	5.87E-08	7.87E-07	1.19E-07	1.19E-07	6.56E-08	1.15E-06	3.19E-08	4.26E-07	5.31E-08	5.31E-08	2.63E-08	5.90E-07
617	258308.99	4084899.08	3.96E-07	5.29E-06	7.82E-07	7.82E-07	4.36E-07	7.68E-06	6.01E-08	8.05E-07	1.22E-07	1.22E-07	6.71E-08	1.18E-06	3.26E-08	4.36E-07	5.43E-08	5.43E-08	2.69E-08	6.04E-07
618	258284.66	4084900.08	4.02E-07	5.36E-06	7.94E-07	7.94E-07	4.42E-07	7.80E-06	6.09E-08	8.17E-07	1.24E-07	1.24E-07	6.81E-08	1.19E-06	3.31E-08	4.42E-07	5.51E-08	5.51E-08	2.73E-08	6.13E-07
619	258260.33	4084901.08	4.06E-07	5.42E-06	8.02E-07	8.02E-07	4.47E-07	7.88E-06	6.16E-08	8.26E-07	1.25E-07	1.25E-07	6.88E-08	1.21E-06	3.34E-08	4.47E-07	5.57E-08	5.57E-08	2.76E-08	6.19E-07
620	258235.99	4084902.08	4.09E-07	5.46E-06	8.08E-07	8.08E-07	4.50E-07	7.93E-06	6.20E-08	8.32E-07	1.26E-07	1.26E-07	6.93E-08	1.22E-06	3.37E-08	4.50E-07	5.61E-08	5.61E-08	2.78E-08	6.24E-07
621	258211.66	4084903.08	4.10E-07	5.48E-06	8.11E-07	8.11E-07	4.52E-07	7.97E-06	6.23E-08	8.35E-07	1.27E-07	1.27E-07	6.96E-08	1.22E-06	3.38E-08	4.52E-07	5.63E-08	5.63E-08	2.79E-08	6.26E-07
622	258187.33	4084904.08	4.11E-07	5.49E-06	8.13E-07	8.13E-07	4.53E-07	7.98E-06	6.24E-08	8.37E-07	1.27E-07	1.27E-07	6.98E-08	1.22E-06	3.39E-08	4.53E-07	5.65E-08	5.65E-08	2.79E-08	6.28E-07
623	258163	4084905.08	4.11E-07	5.49E-06	8.13E-07	8.13E-07	4.53E-07	7.98E-06	6.24E-08	8.37E-07	1.27E-07	1.27E-07	6.98E-08	1.22E-06	3.39E-08	4.53E-07	5.65E-08	5.65E-08	2.80E-08	6.28E-07
624	258138.67	4084906.08	4.11E-07	5.49E-06	8.12E-07	8.12E-07	4.53E-07	7.98E-06	6.24E-08	8.36E-07	1.27E-07	1.27E-07	6.97E-08	1.22E-06	3.39E-08	4.53E-07	5.64E-08	5.64E-08	2.79E-08	6.27E-07
625	258114.33	4084907.08	4.10E-07	5.48E-06	8.11E-07	8.11E-07	4.52E-07	7.97E-06	6.23E-08	8.35E-07	1.27E-07	1.27E-07	6.96E-08	1.22E-06	3.38E-08	4.52E-07	5.63E-08	5.63E-08	2.79E-08	6.26E-07
626	258090	4084908.08	4.09E-07	5.47E-06	8.09E-07	8.09E-07	4.51E-07	7.95E-06	6.21E-08	8.33E-07	1.26E-07	1.26E-07	6.94E-08	1.22E-06	3.37E-08	4.51E-07	5.62E-08	5.62E-08	2.78E-08	6.25E-07
627	258065.67	4084909.08	4.08E-07	5.45E-06	8.06E-07	8.06E-07	4.50E-07	7.92E-06	6.19E-08	8.30E-07	1.26E-07	1.26E-07	6.92E-08	1.21E-06	3.36E-08	4.49E-07	5.60E-08	5.60E-08	2.77E-08	6.23E-07
628	258041.34	4084910.09	4.06E-07	5.43E-06	8.03E-07	8.03E-07	4.48E-07	7.89E-06	6.17E-08	8.27E-07	1.25E-07	1.25E-07	6.89E-08	1.21E-06	3.35E-08	4.47E-07	5.58E-08	5.58E-08	2.76E-08	6.20E-07
629	258017.01	4084911.09	4.04E-07	5.40E-06	7.99E-07	7.99E-07	4.45E-07	7.85E-06	6.13E-08	8.22E-07	1.25E-07	1.25E-07	6.86E-08	1.20E-06	3.33E-08	4.45E-07	5.55E-08	5.55E-08	2.75E-08	6.17E-07
630	257992.68	4084912.09	4.02E-07	5.37E-06	7.94E-07	7.94E-07	4.43E-07	7.80E-06	6.10E-08	8.17E-07	1.24E-07	1.24E-07	6.81E-08	1.19E-06	3.31E-08	4.42E-07	5.51E-08	5.51E-08	2.73E-08	6.13E-07
631	257968.34	4084913.09	3.99E-07	5.32E-06	7.88E-07	7.88E-07	4.39E-07	7.74E-06	6.05E-08	8.11E-07	1.23E-07	1.23E-07	6.76E-08	1.19E-06	3.29E-08	4.39E-07	5.47E-08	5.47E-08	2.71E-08	6.08E-07
632	257944.01	4084914.09	3.95E-07	5.28E-06	7.81E-07	7.81E-07	4.35E-07	7.67E-06	5.99E-08	8.04E-07	1.22E-07	1.22E-07	6.70E-08	1.17E-06	3.26E-08	4.35E-07	5.42E-08	5.42E-08	2.68E-08	6.03E-07
633	257919.68	4084915.09	3.91E-07	5.22E-06	7.72E-07	7.72E-07	4.30E-07	7.58E-06	5.93E-08	7.95E-07	1.21E-07	1.21E-07	6.63E-08	1.16E-06	3.22E-08	4.30E-07	5.36E-08	5.36E-08	2.65E-08	5.96E-07
634	257895.35	4084916.09	3.85E-07	5.15E-06	7.62E-07	7.62E-07	4.25E-07	7.48E-06	5.85E-08	7.84E-07	1.19E-07	1.19E-07	6.54E-08	1.15E-06	3.18E-08	4.24E-07	5.29E-08	5.29E-08	2.62E-08	5.88E-07
635	257871.02	4084917.09	3.79E-07	5.07E-06	7.49E-07	7.49E-07	4.18E-07	7.36E-06	5.76E-08	7.72E-07	1.17E-07	1.17E-07	6.43E-08	1.13E-06	3.13E-08	4.18E-07	5.21E-08	5.21E-08	2.58E-08	5.79E-07
636	257846.68	4084918.09	3.72E-07	4.97E-06	7.35E-07	7.35E-07	4.10E-07	7.22E-06	5.64E-08	7.56E-07	1.15E-07	1.15E-07	6.31E-08	1.11E-06	3.06E-08	4.09E-07	5.10E-08	5.10E-08	2.53E-08	5.67E-07
637	257822.35	4084919.09	3.63E-07	4.85E-06	7.17E-07	7.17E-07	4.00E-07	7.04E-06	5.51E-08	7.38E-07	1.12E-07	1.12E-07	6.16E-08	1.08E-06	2.99E-08	3.99E-07	4.98E-08	4.98E-08	2.47E-08	5.54E-07
638	257798.02	4084920.09	3.52E-07	4.70E-06	6.96E-07	6.96E-07	3.88E-07	6.83E-06	5.34E-08	7.16E-07	1.09E-07	1.09E-07	5.97E-08	1.05E-06	2.90E-08	3.88E-07	4.83E-08	4.83E-08	2.39E-08	5.37E-07
639	257773.69	4084921.09	3.39E-07	4.53E-06	6.70E-07	6.70E-07	3.73E-07	6.58E-06	5.14E-08	6.90E-07	1.05E-07	1.05E-07	5.75E-08	1.01E-06	2.79E-08	3.73E-07	4.65E-08	4.65E-08	2.30E-08	5.17E-07
640	257749.36	4084922.09	3.23E-07	4.32E-06	6.39E-07	6.39E-07	3.56E-07	6.27E-06	4.90E-08	6.58E-07	9.97E-08	9.97E-08	5.48E-08	9.61E-07	2.66E-08	3.56E-07	4.44E-08	4.44E-08	2.20E-08	4.93E-07
641	257725.03	4084923.09	3.04E-07	4.06E-06	6.01E-07	6.01E-07	3.35E-07	5.90E-06	4.62E-08	6.19E-07	9.38E-08	9.38E-08	5.16E-08	9.04E-07	2.51E-08	3.35E-07	4.18E-08	4.18E-08	2.07E-08	4.64E-07
642	257700.69	4084924.09	2.81E-07	3.75E-06	5.55E-07	5.55E-07	3.10E-07	5.45E-06	4.26E-08	5.72E-07	8.67E-08	8.67E-08	4.77E-08	8.36E-07	2.32E-08	3.09E-07	3.86E-08	3.86E-08	1.91E-08	4.29E-07
643	257676.36	4084925.09	2.53E-07	3.37E-06	4.99E-07	4.99E-07	2.78E-07	4.90E-06	3.83E-08	5.14E-07	7.79E-08	7.79E-08	4.29E-08	7.51E-07	2.08E-08	2.78E-07	3.47E-08	3.47E-08	1.72E-08	3.85E-07
644	257652.03	4084926.09	2.18E-07	2.91E-06	4.30E-07	4.30E-07	2.40E-07	4.23E-06	3.31E-08	4.43E-07	6.72E-08	6.72E-08	3.69E-08	6.48E-07	1.80E-08	2.40E-07	2.99E-08	2.99E-08	1.48E-08	3.32E-07
645	257627.7	4084927.09	1.75E-07	2.34E-06	3.46E-07	3.46E-07	1.93E-07	3.40E-06	2.66E-08	3.56E-07	5.40E-08	5.40E-08	2.97E-08	5.21E-07	1.44E-08	1.93E-07	2.40E-08	2.40E-08	1.19E-08	2.67E-07
646	257603.37	4084928.09	1.25E-07	1.67E-06	2.47E-07	2.47E-07	1.38E-07	2.43E-06	1.90E-08	2.55E-07	3.86E-08	3.86E-08	2.12E-08	3.72E-07	1.03E-08	1.38E-07	1.72E-08	1.72E-08	8.51E-09	1.91E-07
647	257579.03	4084929.09	7.82E-08	1.05E-06	1.55E-07	1.55E-07	8.62E-08	1.52E-06	1.19E-08	1.59E-07	2.41E-08	2.41E-08	1.33E-08	2.33E-07	6.45E-09	8.61E-08	1.07E-08	1.07E-08	5.32E-09	1.19E-07
648	257554.7	4084930.09	5.29E-08	7.07E-07	1.05E-07	1.05E-07	5.83E-08	1.03E-06	8.03E-09	1.08E-07	1.63E-08	1.63E-08	8.97E-09	1.57E-07	4.36E-09	5.82E-08	7.26E-09	7.26E-09	3.59E-09	8.07E-08
649	258374.7	4084878.79	2.74E-07	3.66E-06	5.42E-07	5.42E-07	3.02E-07	5.32E-06	4.16E-08	5.58E-07	8.46E-08	8.46E-08	4.65E-08	8.16E-07	2.26E-08	3.02E-07	3.77E-08	3.77E-08	1.86E-08	4.19E-07
650	258332.29	4084873.1	2.69E-07	3.59E-06	5.31E-07	5.31E-07	2.96E-07	5.22E-06	4.08E-08	5.47E-07	8.29E-08	8.29E-08	4.56E-08	7.99E-07	2.22E-08	2.96E-07	3.69E-08	3.69E-08	1.83E-08	4.10E-07
651	258307.96	4084874.1	2.73E-07	3.65E-06	5.40E-07	5.40E-07	3.01E-07	5.31E-06	4.15E-08	5.56E-07	8.43E-08	8.43E-08	4.64E-08	8.13E-07	2.25E-08	3.01E-07	3.75E-08	3.75E-08	1.86E-08	4.17E-07
652	258283.63	4084875.1	2.76E-07	3.69E-06	5.46E-07	5.46E-07	3.05E-07	5.37E-06	4.19E-08	5.62E-07	8.53E-08	8.53E-08	4.69E-08	8.22E-07	2.28E-08	3.04E-07	3.79E-08	3.79E-08	1.88E-08	4.22E-07
653	258259.3	4084876.1	2.79E-07	3.72E-06	5.50E-07	5.50E-07	3.07E-07	5.41E-06	4.23E-08	5.67E-07	8.60E-08	8.60E-08	4.73E-08	8.28E-07	2.30E-08	3.07E-07	3.82E-08	3.82E-08	1.89E-08	4.25E-07
654	258234.97	4084877.1	2.80E-07	3.74E-06	5.53E-07	5.53E-07	3.09E-07	5.44E-06	4.25E-08	5.70E-07	8.64E-08	8.64E-08	4.75E-08	8.33E-07	2.31E-08	3.08E-07	3.84E-08	3.84E-08	1.90E-08	4.27E-07
655	258210.64	4084878.1	2.81E-07	3.75E-06	5.55E-07	5.55E-07	3.10E-07	5.45E-06	4.26E-08	5.72E-07	8.67E-08	8.67E-08	4.77E-08	8.35E-07	2.32E-08	3.09E-07	3.86E-08	3.86E-08	1.91E-08	4.29E-07
656	258186.3	4084879.1	2.81E-07	3.76E-06	5.56E-07	5.56E-07	3.10E-07	5.46E-06	4.27E-08	5.73E-07	8.68E-08	8.68E-08	4.77E-08	8.37E-07	2.32E-08	3.10E-07	3.86E-08	3.86E-08	1.91E-08	4.29E-07
657	258161.97	4084880.1	2.82E-07	3.76E-06	5.56E-07	5.56E-07	3.10E-07	5.46E-06	4.27E-08	5.73E-07	8.69E-08	8.69E-08	4.78E-08	8.37E-07	2.32E-08	3.10E-07	3.86E-08	3.86E-08	1.91E-08	4.30E-07
658	258137.64	4084881.1	2.81E-07	3.76E-06	5.56E-07	5.56E-07	3.10E-07	5.46E-06	4.27E-08	5.72E-07	8.68E-08	8.68E-08	4.77E-08	8.36E-07	2.32E-08	3.10E-07	3.86E-08	3.86E-08	1.91E-08	4.29E-07
659	258113.31	4084882.11	2.81E-07	3.75E-06	5.55E-07	5.55E-07	3.09E-07	5.45E-06	4.26E-08	5.71E-07	8.66E-08	8.66E-08	4.76E-08	8.34E-07	2.31E-08	3.09E-07	3.85E-08	3.85E-08	1.91E-08	4.28E-07
660	258088.98	4084883.11	2.80E-07	3.73E-06	5.53E-07	5.53E-07	3.08E-07	5.43E-06	4.24E-08	5.69E-07	8.63E-08	8.63E-08	4.74E-08	8.31E-07	2.30E-08	3.08E-07	3.84E-08	3.84E-08	1.90E-08	4.27E-07
661	258064.64	4084884.11	2.78E-07	3.72E-06	5.50E-07	5.50E-07	3.07E-07	5.40E-06	4.22E-08	5.66E-07	8.58E-08	8.58E-08	4.72E-08	8.27E-07	2.29E-08	3.06E-07	3.82E-08	3.82E-08	1.89E-08	4.25E-07
662	258040.31	4084885.11	2.76E-07	3.69E-06	5.46E-07	5.46E-07	3.05E-07	5.37E-06	4.20E-08	5.63E-07	8.53E-08	8.53E-08	4.69E-08	8.22E-07	2.28E-08	3.04E-07	3.79E-08	3.79E-08	1.88E-08	4.22E-07
663	258015.98	4084886.11	2.74E-07	3.66E-06	5.42E-07	5.42E-07	3.02E-07	5.32E-06	4.16E-08	5.58E-07	8.46E-08	8.46E-08	4.65E-08	8.15E-07	2.26E-08	3.02E-07	3.76E-08	3.76E-08	1.86E-08	4.18E-07
664	257991.65	4084887.11	2.71E-07	3.63E-06	5.36E-07	5.36E-07	2.99E-07	5.27E-06	4.12E-08	5.52E-07	8.38E-08	8.38E-08	4.61E-08	8.07E-07	2.24E-08	2.99E-07	3.73E-08	3.73E-08	1.84E-08	4.14E-07
665	257967.32	4084888.11	2.68E-07	3.58E-06	5.30E-07	5.30E-07	2.95E-07	5.21E-06	4.07E-08	5.46E-07	8.28E-08	8.28E-08	4.55E-08	7.97E-07	2.21E-08	2.95E-07	3.68E-08	3.68E-08	1.82E-08	4.09E-07
666	257942.99	4084889.11	2.64E-07	3.53E-06	5.22E-07	5.22E-07	2.91E-07	5.13E-06	4.01E-08	5.38E-07	8.16E-08	8.16E-08	4.48E-08	7.86E-07	2.18E-08	2.91E-07	3.63E-08	3.63E-08	1.80E-08	4.03E-07
667	257918.65	4084890.11	2.60E-07	3.47E-06	5.13E-07	5.13E-07	2.86E-07	5.04E-06	3.94E-08	5.29E-07	8.02E-08	8.02E-08	4.41E-08	7.73E-07	2.14E-08	2.86E-07	3.57E-08	3.57E-08	1.77E-08	3.96E-07
668	257894.32	4084891.11	2.55E-07	3.40E-06	5.03E-07	5.03E-07	2.80E-07	4.94E-06	3.86E-08	5.18E-07	7.85E-08	7.85E-08	4.32E-08	7.57E-07	2.10E-08	2.80E-07	3.49E-08	3.49E-08	1.73E-08	3.88E-07
669	257869.99	4084892.11	2.48E-07	3.32E-06	4.91E-07	4.91E-07	2.74E-07	4.82E-06	3.77E-08	5.05E-07	7.66E-08	7.66E-08	4.21E-08	7.38E-07	2.05E-08	2.73E-07	3.41E-08	3.41E-08	1.69E-08	3.79E-07
670	257845.66	4084893.11	2.41E-07	3.22E-06	4.76E-07	4.76E-07	2.65E-07	4.68E-06	3.66E-08	4.90E-07	7.43E-08	7.43E-08	4.09E-08	7.16E-07	1.99E-08	2.65E-07	3.31E-08	3.31E-08	1.64E-08	3.68E-07
671	257821.33	4084894.11	2.32E-07	3.10E-06	4.59E-07	4.59E-07	2.56E-07	4.51E-06	3.52E-08	4.72E-07	7.16E-08	7.16E-08	3.94E-08	6.90E-07	1.91E-08	2.56E-07	3.19E-08	3.19E-08	1.58E-08	3.54E-07
672	257796.99	4084895.11	2.22E-07	2.96E-06	4.38E-07	4.38E-07	2.44E-07	4.31E-06	3.37E-08	4.51E-07	6.85E-08	6.85E-08	3.76E-08	6.60E-07	1.83E-08	2.44E-07	3.05E-08	3.05E-08	1.51E-08	3.39E-07
673	257772.66	4084896.11	2.10E-07	2.80E-06	4.15E-07	4.15E-07	2.31E-07	4.07E-06	3.18E-08	4.27E-07	6.47E-08	6.47E-08	3.56E-08	6.24E-07	1.73E-08	2.31E-07	2.88E-08	2.88E-08	1.43E-08	3.20E-07
674	257748.33	4084897.11	1.96E-07	2.61E-06	3.87E-07	3.87E-07	2.16E-07	3.80E-06	2.97E-08	3.98E-07	6.04E-08	6.04E-08	3.32E-08	5.82E-07	1.61E-08	2.15E-07	2.69E-08	2.69E-08	1.33E-08	2.99E-07
675	257724	4084898.11	1.79E-07	2.39E-06	3.54E-07	3.54E-07	1.97E-07	3.48E-06	2.72E-08	3.64E-07	5.53E-08	5.53E-08	3.04E-08	5.33E-07	1.48E-08	1.97E-07	2.46E-08	2.46E-08	1.22E-08	2.73E-07
676	257699.67	4084899.11	1.60E-07	2.14E-06	3.16E-07	3.16E-07	1.76E-07	3.11E-06	2.43E-08	3.25E-07	4.94E-08	4.94E-08	2.71E-08	4.76E-07	1.32E-08	1.76E-07	2.20E-08	2.20E-08	1.09E-08	2.44E-07
677	257675.34	4084900.11	1.38E-07	1.84E-06	2.73E-07	2.73E-07	1.52E-07	2.68E-06	2.10E-08	2.81E-07	4.26E-08	4.26E-08	2.34E-08	4.11E-07	1.14E-08	1.52E-07	1.90E-08	1.90E-08	9.38E-09	2.11E-07
678	257651	4084901.11	1.14E-07	1.52E-06	2.25E-07	2.25E-07	1.25E-07	2.21E-06	1.73E-08	2.31E-07	3.51E-08	3.51E-08	1.93E-08	3.38E-07	9.37E-09	1.25E-07	1.56E-08	1.56E-08	7.72E-09	1.73E-07
679	257626.67	4084902.11	8.81E-08	1.18E-06	1.74E-07	1.74E-07	9.70E-08	1.71E-06	1.34E-08	1.79E-07	2.72E-08	2.72E-08	1.49E-08	2.62E-07	7.26E-09	9.70E-08	1.21E-08	1.21E-08	5.98E-09	1.34E-07
680	257602.34	4084903.11	6.43E-08	8.59E-07	1.27E-07	1.27E-07	7.08E-08	1.25E-06	9.76E-09	1.31E-07	1.98E-08	1.98E-08	1.09E-08	1.91E-07	5.30E-09	7.08E-08	8.83E-09	8.83E-09	4.37E-09	9.81E-08
681	257578.01	4084904.11	4.68E-08	6.25E-07	9.25E-08	9.25E-08	5.16E-08	9.08E-07	7.10E-09	9.52E-08	1.44E-08	1.44E-08	7.94E-09	1.39E-07	3.86E-09	5.15E-08	6.42E-09	6.42E-09	3.18E-09	7.14E-08
682	257553.68	4084905.11	3.65E-08	4.87E-07	7.20E-08	7.20E-08	4.02E-08	7.08E-07	5.53E-09	7.42E-08	1.12E-08	1.12E-08	6.18E-09	1.08E-07	3.00E-09	4.01E-08	5.00E-09	5.00E-09	2.48E-09	5.56E-08
683	258373.67	4084853.81	2.11E-07	2.81E-06	4.16E-07	4.16E-07	2.32E-07	4.09E-06	3.19E-08	4.28E-07	6.50E-08	6.50E-08	3.57E-08	6.26E-07	1.74E-08	2.32E-07	2.89E-08	2.89E-08	1.43E-08	3.21E-07
684	258417.76	4084884.76	2.38E-07	3.18E-06	4.70E-07	4.70E-07	2.62E-07	4.62E-06	3.61E-08	4.84E-07	7.34E-08	7.34E-08	4.04E-08	7.08E-07	1.96E-08	2.62E-07	3.27E-08	3.27E-08	1.62E-08	3.63E-07
685	258331.27	4084848.12	2.05E-07	2.74E-06	4.05E-07	4.05E-07	2.26E-07	3.98E-06	3.11E-08	4.17E-07	6.33E-08	6.33E-08	3.48E-08	6.10E-07	1.69E-08	2.26E-07	2.81E-08	2.81E-08	1.39E-08	3.13E-07
686	258306.94	4084849.12	2.08E-07	2.77E-06	4.10E-07	4.10E-07	2.29E-07	4.03E-06	3.15E-08	4.23E-07	6.41E-08	6.41E-08	3.52E-08	6.18E-07	1.71E-08	2.29E-07	2.85E-08	2.85E-08	1.41E-08	3.17E-07
687	258282.6	4084850.12	2.09E-07	2.80E-06	4.14E-07	4.14E-07	2.31E-07	4.07E-06	3.18E-08	4.26E-07	6.46E-08	6.46E-08	3.55E-08	6.23E-07	1.73E-08	2.31E-07	2.88E-08	2.88E-08	1.42E-08	3.20E-07
688	258258.27	4084851.12	2.11E-07	2.81E-06	4.16E-07	4.16E-07	2.32E-07	4.09E-06	3.20E-08	4.29E-07	6.50E-08	6.50E-08	3.57E-08	6.26E-07	1.74E-08	2.32E-07	2.89E-08	2.89E-08	1.43E-08	3.21E-07
689	258233.94	4084852.12	2.11E-07	2.82E-06	4.18E-07	4.18E-07	2.33E-07	4.10E-06	3.21E-08	4.30E-07	6.52E-08	6.52E-08	3.59E-08	6.28E-07	1.74E-08	2.33E-07	2.90E-08	2.90E-08	1.44E-08	3.23E-07
690	258209.61	4084853.13	2.12E-07	2.83E-06	4.18E-07	4.18E-07	2.33E-07	4.11E-06	3.21E-08	4.31E-07	6.53E-08	6.53E-08	3.59E-08	6.30E-07	1.75E-08	2.33E-07	2.91E-08	2.91E-08	1.44E-08	3.23E-07
691	258185.28	4084854.13	2.12E-07	2.83E-06	4.18E-07	4.18E-07	2.33E-07	4.11E-06	3.21E-08	4.31E-07	6.53E-08	6.53E-08	3.59E-08	6.30E-07	1.75E-08	2.33E-07	2.91E-08	2.91E-08	1.44E-08	3.23E-07
692	258160.94	4084855.13	2.11E-07	2.82E-06	4.18E-07	4.18E-07	2.33E-07	4.10E-06	3.21E-08	4.30E-07	6.52E-08	6.52E-08	3.59E-08	6.29E-07	1.74E-08	2.33E-07	2.90E-08	2.90E-08	1.44E-08	3.23E-07
693	258136.61	4084856.13	2.11E-07	2.82E-06	4.16E-07	4.16E-07	2.32E-07	4.09E-06	3.20E-08	4.29E-07	6.50E-08	6.50E-08	3.58E-08	6.27E-07	1.74E-08	2.32E-07	2.89E-08	2.89E-08	1.43E-08	3.22E-07
694	258112.28	4084857.13	2.10E-07	2.80E-06	4.15E-07	4.15E-07	2.31E-07	4.07E-06	3.18E-08	4.27E-07	6.47E-08	6.47E-08	3.56E-08	6.24E-07	1.73E-08	2.31E-07	2.88E-08	2.88E-08	1.43E-08	3.20E-07
695	258087.95	4084858.13	2.09E-07	2.79E-06	4.12E-07	4.12E-07	2.30E-07	4.05E-06	3.16E-08	4.24E-07	6.43E-08	6.43E-08	3.54E-08	6.20E-07	1.72E-08	2.30E-07	2.86E-08	2.86E-08	1.42E-08	3.18E-07
696	258063.62	4084859.13	2.07E-07	2.76E-06	4.09E-07	4.09E-07	2.28E-07	4.02E-06	3.14E-08	4.21E-07	6.39E-08	6.39E-08	3.51E-08	6.15E-07	1.71E-08	2.28E-07	2.84E-08	2.84E-08	1.41E-08	3.16E-07
697	258039.29	4084860.13	2.05E-07	2.74E-06	4.05E-07	4.05E-07	2.26E-07	3.98E-06	3.11E-08	4.17E-07	6.32E-08	6.32E-08	3.48E-08	6.09E-07	1.69E-08	2.26E-07	2.81E-08	2.81E-08	1.39E-08	3.13E-07
698	258014.95	4084861.13	2.03E-07	2.71E-06	4.00E-07	4.00E-07	2.23E-07	3.93E-06	3.07E-08	4.12E-07	6.25E-08	6.25E-08	3.44E-08	6.02E-07	1.67E-08	2.23E-07	2.78E-08	2.78E-08	1.38E-08	3.09E-07
699	257990.62	4084862.13	2.00E-07	2.67E-06	3.95E-07	3.95E-07	2.20E-07	3.88E-06	3.03E-08	4.07E-07	6.16E-08	6.16E-08	3.39E-08	5.94E-07	1.65E-08	2.20E-07	2.74E-08	2.74E-08	1.36E-08	3.05E-07
700	257966.29	4084863.13	1.96E-07	2.62E-06	3.88E-07	3.88E-07	2.16E-07	3.81E-06	2.98E-08	4.00E-07	6.06E-08	6.06E-08	3.33E-08	5.84E-07	1.62E-08	2.16E-07	2.70E-08	2.70E-08	1.33E-08	3.00E-07
701	257941.96	4084864.13	1.93E-07	2.57E-06	3.80E-07	3.80E-07	2.12E-07	3.74E-06	2.92E-08	3.92E-07	5.94E-08	5.94E-08	3.27E-08	5.72E-07	1.59E-08	2.12E-07	2.64E-08	2.64E-08	1.31E-08	2.94E-07
702	257917.63	4084865.13	1.88E-07	2.51E-06	3.71E-07	3.71E-07	2.07E-07	3.65E-06	2.85E-08	3.82E-07	5.80E-08	5.80E-08	3.19E-08	5.59E-07	1.55E-08	2.07E-07	2.58E-08	2.58E-08	1.28E-08	2.87E-07
703	257893.29	4084866.13	1.83E-07	2.44E-06	3.61E-07	3.61E-07	2.01E-07	3.54E-06	2.77E-08	3.72E-07	5.63E-08	5.63E-08	3.10E-08	5.43E-07	1.50E-08	2.01E-07	2.51E-08	2.51E-08	1.24E-08	2.79E-07
704	257868.96	4084867.13	1.76E-07	2.36E-06	3.49E-07	3.49E-07	1.94E-07	3.42E-06	2.68E-08	3.59E-07	5.44E-08	5.44E-08	2.99E-08	5.25E-07	1.45E-08	1.94E-07	2.42E-08	2.42E-08	1.20E-08	2.69E-07

705	257844.63	4084868.13	1.69E-07	2.26E-06	3.34E-07	3.34E-07	1.86E-07	3.29E-06	2.57E-08	3.44E-07	5.22E-08	5.22E-08	2.87E-08	5.03E-07	1.39E-08	1.86E-07	2.32E-08	2.32E-08	1.15E-08	2.58E-07
706	257820.3	4084869.13	1.61E-07	2.15E-06	3.18E-07	3.18E-07	1.77E-07	3.12E-06	2.44E-08	3.28E-07	4.97E-08	4.97E-08	2.73E-08	4.79E-07	1.33E-08	1.77E-07	2.21E-08	2.21E-08	1.09E-08	2.46E-07
707	257795.97	4084870.13	1.52E-07	2.02E-06	2.99E-07	2.99E-07	1.67E-07	2.94E-06	2.30E-08	3.08E-07	4.68E-08	4.68E-08	2.57E-08	4.51E-07	1.25E-08	1.67E-07	2.08E-08	2.08E-08	1.03E-08	2.31E-07
708	257771.64	4084871.13	1.41E-07	1.88E-06	2.78E-07	2.78E-07	1.55E-07	2.73E-06	2.14E-08	2.86E-07	4.34E-08	4.34E-08	2.39E-08	4.18E-07	1.16E-08	1.55E-07	1.93E-08	1.93E-08	9.56E-09	2.15E-07
709	257747.3	4084872.13	1.29E-07	1.72E-06	2.54E-07	2.54E-07	1.42E-07	2.49E-06	1.95E-08	2.62E-07	3.97E-08	3.97E-08	2.18E-08	3.82E-07	1.06E-08	1.42E-07	1.76E-08	1.76E-08	8.73E-09	1.96E-07
710	257722.97	4084873.13	1.15E-07	1.54E-06	2.27E-07	2.27E-07	1.27E-07	2.23E-06	1.74E-08	2.34E-07	3.55E-08	3.55E-08	1.95E-08	3.42E-07	9.47E-09	1.27E-07	1.58E-08	1.58E-08	7.81E-09	1.75E-07
711	257698.64	4084874.13	1.00E-07	1.34E-06	1.98E-07	1.98E-07	1.10E-07	1.94E-06	1.52E-08	2.04E-07	3.09E-08	3.09E-08	1.70E-08	2.98E-07	8.25E-09	1.10E-07	1.37E-08	1.37E-08	6.80E-09	1.53E-07
712	257674.31	4084875.13	8.43E-08	1.13E-06	1.67E-07	1.67E-07	9.29E-08	1.64E-06	1.28E-08	1.72E-07	2.60E-08	2.60E-08	1.43E-08	2.51E-07	6.95E-09	9.28E-08	1.16E-08	1.16E-08	5.73E-09	1.29E-07
713	257649.98	4084876.13	6.84E-08	9.14E-07	1.35E-07	1.35E-07	7.54E-08	1.33E-06	1.04E-08	1.39E-07	2.11E-08	2.11E-08	1.16E-08	2.03E-07	5.64E-09	7.53E-08	9.39E-09	9.39E-09	4.65E-09	1.04E-07
714	257625.64	4084877.13	5.37E-08	7.17E-07	1.06E-07	1.06E-07	5.92E-08	1.04E-06	8.15E-09	1.09E-07	1.66E-08	1.66E-08	9.11E-09	1.60E-07	4.43E-09	5.91E-08	7.37E-09	7.37E-09	3.65E-09	8.19E-08
715	257601.31	4084878.13	4.17E-08	5.57E-07	8.24E-08	8.24E-08	4.59E-08	8.09E-07	6.33E-09	8.48E-08	1.29E-08	1.29E-08	7.07E-09	1.24E-07	3.44E-09	4.59E-08	5.72E-09	5.72E-09	2.83E-09	6.36E-08
716	257576.98	4084879.13	3.32E-08	4.43E-07	6.56E-08	6.56E-08	3.66E-08	6.44E-07	5.03E-09	6.75E-08	1.02E-08	1.02E-08	5.63E-09	9.86E-08	2.73E-09	3.65E-08	4.55E-09	4.55E-09	2.25E-09	5.06E-08
717	257552.65	4084880.13	2.75E-08	3.68E-07	5.44E-08	5.44E-08	3.03E-08	5.35E-07	4.18E-09	5.60E-08	8.50E-09	8.50E-09	4.67E-09	8.19E-08	2.27E-09	3.03E-08	3.78E-09	3.78E-09	1.87E-09	4.20E-08
718	258372.65	4084828.84	1.69E-07	2.26E-06	3.34E-07	3.34E-07	1.86E-07	3.28E-06	2.56E-08	3.44E-07	5.21E-08	5.21E-08	2.86E-08	5.02E-07	1.39E-08	1.86E-07	2.32E-08	2.32E-08	1.15E-08	2.58E-07
719	258408.79	4084842.22	1.78E-07	2.38E-06	3.52E-07	3.52E-07	1.96E-07	3.46E-06	2.70E-08	3.62E-07	5.50E-08	5.50E-08	3.02E-08	5.30E-07	1.47E-08	1.96E-07	2.45E-08	2.45E-08	1.21E-08	2.72E-07
720	258434.81	4084866.47	1.92E-07	2.57E-06	3.80E-07	3.80E-07	2.12E-07	3.73E-06	2.92E-08	3.91E-07	5.93E-08	5.93E-08	3.26E-08	5.72E-07	1.59E-08	2.12E-07	2.64E-08	2.64E-08	1.31E-08	2.93E-07
721	258330.24	4084823.14	1.64E-07	2.19E-06	3.24E-07	3.24E-07	1.81E-07	3.18E-06	2.49E-08	3.34E-07	5.06E-08	5.06E-08	2.78E-08	4.88E-07	1.35E-08	1.81E-07	2.25E-08	2.25E-08	1.11E-08	2.50E-07
722	258305.91	4084824.15	1.66E-07	2.21E-06	3.27E-07	3.27E-07	1.82E-07	3.21E-06	2.51E-08	3.37E-07	5.11E-08	5.11E-08	2.81E-08	4.92E-07	1.36E-08	1.82E-07	2.27E-08	2.27E-08	1.13E-08	2.53E-07
723	258281.58	4084825.15	1.67E-07	2.22E-06	3.29E-07	3.29E-07	1.83E-07	3.23E-06	2.53E-08	3.39E-07	5.14E-08	5.14E-08	2.82E-08	4.95E-07	1.37E-08	1.83E-07	2.29E-08	2.29E-08	1.13E-08	2.54E-07
724	258257.25	4084826.15	1.67E-07	2.23E-06	3.30E-07	3.30E-07	1.84E-07	3.24E-06	2.54E-08	3.40E-07	5.16E-08	5.16E-08	2.83E-08	4.97E-07	1.38E-08	1.84E-07	2.29E-08	2.29E-08	1.14E-08	2.55E-07
725	258232.91	4084827.15	1.67E-07	2.24E-06	3.31E-07	3.31E-07	1.84E-07	3.25E-06	2.54E-08	3.41E-07	5.16E-08	5.16E-08	2.84E-08	4.98E-07	1.38E-08	1.84E-07	2.30E-08	2.30E-08	1.14E-08	2.55E-07
726	258208.58	4084828.15	1.67E-07	2.24E-06	3.31E-07	3.31E-07	1.84E-07	3.25E-06	2.54E-08	3.41E-07	5.16E-08	5.16E-08	2.84E-08	4.98E-07	1.38E-08	1.84E-07	2.30E-08	2.30E-08	1.14E-08	2.55E-07
727	258184.25	4084829.15	1.67E-07	2.23E-06	3.30E-07	3.30E-07	1.84E-07	3.24E-06	2.54E-08	3.40E-07	5.15E-08	5.15E-08	2.83E-08	4.97E-07	1.38E-08	1.84E-07	2.29E-08	2.29E-08	1.14E-08	2.55E-07
728	258159.92	4084830.15	1.66E-07	2.22E-06	3.29E-07	3.29E-07	1.83E-07	3.23E-06	2.53E-08	3.39E-07	5.14E-08	5.14E-08	2.82E-08	4.95E-07	1.37E-08	1.83E-07	2.29E-08	2.29E-08	1.13E-08	2.54E-07
729	258135.59	4084831.15	1.66E-07	2.21E-06	3.27E-07	3.27E-07	1.82E-07	3.21E-06	2.51E-08	3.37E-07	5.11E-08	5.11E-08	2.81E-08	4.92E-07	1.37E-08	1.82E-07	2.27E-08	2.27E-08	1.13E-08	2.53E-07
730	258111.25	4084832.15	1.64E-07	2.20E-06	3.25E-07	3.25E-07	1.81E-07	3.19E-06	2.50E-08	3.35E-07	5.07E-08	5.07E-08	2.79E-08	4.89E-07	1.36E-08	1.81E-07	2.26E-08	2.26E-08	1.12E-08	2.51E-07
731	258086.92	4084833.15	1.63E-07	2.18E-06	3.22E-07	3.22E-07	1.80E-07	3.16E-06	2.47E-08	3.32E-07	5.03E-08	5.03E-08	2.77E-08	4.85E-07	1.34E-08	1.79E-07	2.24E-08	2.24E-08	1.11E-08	2.49E-07
732	258062.59	4084834.15	1.61E-07	2.15E-06	3.19E-07	3.19E-07	1.78E-07	3.13E-06	2.45E-08	3.28E-07	4.97E-08	4.97E-08	2.73E-08	4.79E-07	1.33E-08	1.78E-07	2.21E-08	2.21E-08	1.10E-08	2.46E-07
733	258038.26	4084835.15	1.59E-07	2.13E-06	3.14E-07	3.14E-07	1.75E-07	3.09E-06	2.41E-08	3.24E-07	4.91E-08	4.91E-08	2.70E-08	4.73E-07	1.31E-08	1.75E-07	2.18E-08	2.18E-08	1.08E-08	2.43E-07
734	258013.93	4084836.15	1.57E-07	2.09E-06	3.09E-07	3.09E-07	1.72E-07	3.04E-06	2.38E-08	3.19E-07	4.83E-08	4.83E-08	2.66E-08	4.66E-07	1.29E-08	1.72E-07	2.15E-08	2.15E-08	1.06E-08	2.39E-07
735	257989.6	4084837.15	1.54E-07	2.05E-06	3.04E-07	3.04E-07	1.69E-07	2.98E-06	2.33E-08	3.13E-07	4.74E-08	4.74E-08	2.61E-08	4.57E-07	1.27E-08	1.69E-07	2.11E-08	2.11E-08	1.04E-08	2.34E-07
736	257965.26	4084838.15	1.50E-07	2.01E-06	2.97E-07	2.97E-07	1.65E-07	2.92E-06	2.28E-08	3.06E-07	4.63E-08	4.63E-08	2.55E-08	4.47E-07	1.24E-08	1.65E-07	2.06E-08	2.06E-08	1.02E-08	2.29E-07
737	257940.93	4084839.15	1.46E-07	1.95E-06	2.89E-07	2.89E-07	1.61E-07	2.84E-06	2.22E-08	2.98E-07	4.51E-08	4.51E-08	2.48E-08	4.35E-07	1.21E-08	1.61E-07	2.01E-08	2.01E-08	9.94E-09	2.23E-07
738	257916.6	4084840.15	1.42E-07	1.89E-06	2.80E-07	2.80E-07	1.56E-07	2.75E-06	2.15E-08	2.88E-07	4.37E-08	4.37E-08	2.40E-08	4.21E-07	1.17E-08	1.56E-07	1.94E-08	1.94E-08	9.63E-09	2.16E-07
739	257892.27	4084841.15	1.36E-07	1.82E-06	2.70E-07	2.70E-07	1.50E-07	2.65E-06	2.07E-08	2.78E-07	4.21E-08	4.21E-08	2.32E-08	4.06E-07	1.12E-08	1.50E-07	1.87E-08	1.87E-08	9.27E-09	2.08E-07
740	257867.94	4084842.15	1.31E-07	1.74E-06	2.58E-07	2.58E-07	1.44E-07	2.53E-06	1.98E-08	2.66E-07	4.03E-08	4.03E-08	2.21E-08	3.88E-07	1.08E-08	1.44E-07	1.79E-08	1.79E-08	8.87E-09	1.99E-07
741	257843.6	4084843.15	1.24E-07	1.65E-06	2.45E-07	2.45E-07	1.36E-07	2.40E-06	1.88E-08	2.52E-07	3.82E-08	3.82E-08	2.10E-08	3.68E-07	1.02E-08	1.36E-07	1.70E-08	1.70E-08	8.42E-09	1.89E-07
742	257819.27	4084844.15	1.16E-07	1.55E-06	2.30E-07	2.30E-07	1.28E-07	2.26E-06	1.77E-08	2.37E-07	3.59E-08	3.59E-08	1.97E-08	3.46E-07	9.59E-09	1.28E-07	1.60E-08	1.60E-08	7.90E-09	1.78E-07
743	257794.94	4084845.15	1.08E-07	1.44E-06	2.13E-07	2.13E-07	1.19E-07	2.09E-06	1.64E-08	2.20E-07	3.33E-08	3.33E-08	1.83E-08	3.21E-07	8.90E-09	1.19E-07	1.48E-08	1.48E-08	7.33E-09	1.65E-07
744	257770.61	4084846.15	9.87E-08	1.32E-06	1.95E-07	1.95E-07	1.09E-07	1.92E-06	1.50E-08	2.01E-07	3.04E-08	3.04E-08	1.67E-08	2.93E-07	8.13E-09	1.09E-07	1.35E-08	1.35E-08	6.70E-09	1.51E-07
745	257746.28	4084847.15	8.86E-08	1.18E-06	1.75E-07	1.75E-07	9.76E-08	1.72E-06	1.34E-08	1.80E-07	2.73E-08	2.73E-08	1.50E-08	2.63E-07	7.30E-09	9.76E-08	1.22E-08	1.22E-08	6.02E-09	1.35E-07
746	257721.95	4084848.15	7.79E-08	1.04E-06	1.54E-07	1.54E-07	8.59E-08	1.51E-06	1.18E-08	1.59E-07	2.40E-08	2.40E-08	1.32E-08	2.32E-07	6.42E-09	8.58E-08	1.07E-08	1.07E-08	5.30E-09	1.19E-07
747	257697.61	4084849.15	6.69E-08	8.93E-07	1.32E-07	1.32E-07	7.37E-08	1.30E-06	1.02E-08	1.36E-07	2.06E-08	2.06E-08	1.13E-08	1.99E-07	5.51E-09	7.36E-08	9.18E-09	9.18E-09	4.55E-09	1.02E-07
748	257673.28	4084850.15	5.60E-08	7.48E-07	1.11E-07	1.11E-07	6.17E-08	1.09E-06	8.50E-09	1.14E-07	1.73E-08	1.73E-08	9.50E-09	1.66E-07	4.61E-09	6.16E-08	7.68E-09	7.68E-09	3.80E-09	8.54E-08
749	257648.95	4084851.15	4.58E-08	6.12E-07	9.06E-08	9.06E-08	5.05E-08	8.90E-07	6.96E-09	9.33E-08	1.41E-08	1.41E-08	7.78E-09	1.36E-07	3.78E-09	5.05E-08	6.29E-09	6.29E-09	3.11E-09	6.99E-08
750	257624.62	4084852.15	3.72E-08	4.96E-07	7.34E-08	7.34E-08	4.09E-08	7.21E-07	5.64E-09	7.56E-08	1.15E-08	1.15E-08	6.30E-09	1.10E-07	3.06E-09	4.09E-08	5.10E-09	5.10E-09	2.53E-09	5.67E-08
751	257600.29	4084853.15	3.04E-08	4.06E-07	6.00E-08	6.00E-08	3.35E-08	5.90E-07	4.61E-09	6.18E-08	9.38E-09	9.38E-09	5.15E-09	9.03E-08	2.50E-09	3.35E-08	4.17E-09	4.17E-09	2.06E-09	4.64E-08
752	257575.95	4084854.15	2.54E-08	3.40E-07	5.03E-08	5.03E-08	2.80E-08	4.94E-07	3.86E-09	5.18E-08	7.85E-09	7.85E-09	4.32E-09	7.57E-08	2.10E-09	2.80E-08	3.49E-09	3.49E-09	1.73E-09	3.88E-08
753	257551.62	4084855.15	2.19E-08	2.92E-07	4.33E-08	4.33E-08	2.41E-08	4.25E-07	3.32E-09	4.46E-08	6.76E-09	6.76E-09	3.71E-09	6.51E-08	1.80E-09	2.41E-08	3.01E-09	3.01E-09	1.49E-09	3.34E-08
754	258374.21	4084780.22	1.18E-07	1.58E-06	2.34E-07	2.34E-07	1.30E-07	2.30E-06	1.80E-08	2.41E-07	3.65E-08	3.65E-08	2.01E-08	3.52E-07	9.76E-09	1.30E-07	1.63E-08	1.63E-08	8.05E-09	1.81E-07
755	258395.89	4084788.25	1.23E-07	1.65E-06	2.44E-07	2.44E-07	1.36E-07	2.39E-06	1.87E-08	2.51E-07	3.81E-08	3.81E-08	2.09E-08	3.67E-07	1.02E-08	1.36E-07	1.69E-08	1.69E-08	8.38E-09	1.88E-07
756	258417.58	4084796.27	1.27E-07	1.70E-06	2.51E-07	2.51E-07	1.40E-07	2.47E-06	1.93E-08	2.59E-07	3.93E-08	3.93E-08	2.16E-08	3.78E-07	1.05E-08	1.40E-07	1.75E-08	1.75E-08	8.64E-09	1.94E-07
757	258439.27	4084804.3	1.29E-07	1.73E-06	2.55E-07	2.55E-07	1.42E-07	2.51E-06	1.96E-08	2.63E-07	3.98E-08	3.98E-08	2.19E-08	3.84E-07	1.06E-08	1.42E-07	1.77E-08	1.77E-08	8.78E-09	1.97E-07
758	258470.49	4084833.4	1.38E-07	1.85E-06	2.73E-07	2.73E-07	1.52E-07	2.68E-06	2.10E-08	2.81E-07	4.26E-08	4.26E-08	2.34E-08	4.11E-07	1.14E-08	1.52E-07	1.90E-08	1.90E-08	9.39E-09	2.11E-07
759	258480.02	4084854.47	1.44E-07	1.93E-06	2.86E-07	2.86E-07	1.59E-07	2.80E-06	2.19E-08	2.94E-07	4.46E-08	4.46E-08	2.45E-08	4.30E-07	1.19E-08	1.59E-07	1.98E-08	1.98E-08	9.82E-09	2.20E-07
760	258489.55	4084875.54	1.46E-07	1.95E-06	2.88E-07	2.88E-07	1.61E-07	2.83E-06	2.21E-08	2.97E-07	4.50E-08	4.50E-08	2.47E-08	4.33E-07	1.20E-08	1.60E-07	2.00E-08	2.00E-08	9.91E-09	2.22E-07
761	258499.08	4084896.61	1.42E-07	1.90E-06	2.81E-07	2.81E-07	1.57E-07	2.76E-06	2.16E-08	2.89E-07	4.38E-08	4.38E-08	2.41E-08	4.22E-07	1.17E-08	1.56E-07	1.95E-08	1.95E-08	9.66E-09	2.17E-07
762	258352.52	4084772.19	1.13E-07	1.51E-06	2.23E-07	2.23E-07	1.24E-07	2.19E-06	1.71E-08	2.30E-07	3.48E-08	3.48E-08	1.92E-08	3.36E-07	9.31E-09	1.24E-07	1.55E-08	1.55E-08	7.67E-09	1.72E-07
763	258328.19	4084773.19	1.14E-07	1.52E-06	2.25E-07	2.25E-07	1.25E-07	2.21E-06	1.73E-08	2.32E-07	3.51E-08	3.51E-08	1.93E-08	3.38E-07	9.38E-09	1.25E-07	1.56E-08	1.56E-08	7.73E-09	1.74E-07
764	258303.85	4084774.19	1.14E-07	1.53E-06	2.26E-07	2.26E-07	1.26E-07	2.22E-06	1.73E-08	2.32E-07	3.52E-08	3.52E-08	1.94E-08	3.40E-07	9.42E-09	1.26E-07	1.57E-08	1.57E-08	7.76E-09	1.74E-07
765	258279.52	4084775.19	1.14E-07	1.53E-06	2.26E-07	2.26E-07	1.26E-07	2.22E-06	1.74E-08	2.33E-07	3.53E-08	3.53E-08	1.94E-08	3.40E-07	9.42E-09	1.26E-07	1.57E-08	1.57E-08	7.77E-09	1.74E-07
766	258255.19	4084776.19	1.14E-07	1.53E-06	2.26E-07	2.26E-07	1.26E-07	2.22E-06	1.73E-08	2.32E-07	3.52E-08	3.52E-08	1.94E-08	3.40E-07	9.41E-09	1.26E-07	1.57E-08	1.57E-08	7.76E-09	1.74E-07
767	258230.86	4084777.19	1.14E-07	1.52E-06	2.25E-07	2.25E-07	1.25E-07	2.21E-06	1.73E-08	2.32E-07	3.51E-08	3.51E-08	1.93E-08	3.38E-07	9.38E-09	1.25E-07	1.56E-08	1.56E-08	7.73E-09	1.74E-07
768	258206.53	4084778.19	1.13E-07	1.51E-06	2.24E-07	2.24E-07	1.25E-07	2.20E-06	1.72E-08	2.30E-07	3.49E-08	3.49E-08	1.92E-08	3.37E-07	9.33E-09	1.25E-07	1.55E-08	1.55E-08	7.69E-09	1.73E-07
769	258182.2	4084779.19	1.12E-07	1.50E-06	2.22E-07	2.22E-07	1.24E-07	2.18E-06	1.71E-08	2.29E-07	3.47E-08	3.47E-08	1.91E-08	3.34E-07	9.27E-09	1.24E-07	1.54E-08	1.54E-08	7.64E-09	1.72E-07
770	258157.86	4084780.19	1.11E-07	1.49E-06	2.20E-07	2.20E-07	1.23E-07	2.16E-06	1.69E-08	2.27E-07	3.44E-08	3.44E-08	1.89E-08	3.31E-07	9.19E-09	1.23E-07	1.53E-08	1.53E-08	7.57E-09	1.70E-07
771	258133.53	4084781.19	1.10E-07	1.47E-06	2.18E-07	2.18E-07	1.21E-07	2.14E-06	1.67E-08	2.24E-07	3.40E-08	3.40E-08	1.87E-08	3.28E-07	9.08E-09	1.21E-07	1.51E-08	1.51E-08	7.49E-09	1.68E-07
772	258109.2	4084782.19	1.09E-07	1.45E-06	2.15E-07	2.15E-07	1.20E-07	2.11E-06	1.65E-08	2.21E-07	3.36E-08	3.36E-08	1.84E-08	3.23E-07	8.96E-09	1.20E-07	1.49E-08	1.49E-08	7.39E-09	1.66E-07
773	258084.87	4084783.19	1.07E-07	1.43E-06	2.12E-07	2.12E-07	1.18E-07	2.08E-06	1.62E-08	2.18E-07	3.30E-08	3.30E-08	1.82E-08	3.18E-07	8.82E-09	1.18E-07	1.47E-08	1.47E-08	7.27E-09	1.63E-07
774	258060.54	4084784.19	1.05E-07	1.40E-06	2.08E-07	2.08E-07	1.16E-07	2.04E-06	1.59E-08	2.14E-07	3.24E-08	3.24E-08	1.78E-08	3.12E-07	8.66E-09	1.16E-07	1.44E-08	1.44E-08	7.14E-09	1.60E-07
775	258036.2	4084785.19	1.03E-07	1.37E-06	2.03E-07	2.03E-07	1.13E-07	1.99E-06	1.56E-08	2.09E-07	3.17E-08	3.17E-08	1.74E-08	3.05E-07	8.47E-09	1.13E-07	1.41E-08	1.41E-08	6.98E-09	1.57E-07
776	258011.87	4084786.19	1.00E-07	1.34E-06	1.98E-07	1.98E-07	1.10E-07	1.94E-06	1.52E-08	2.04E-07	3.09E-08	3.09E-08	1.70E-08	2.98E-07	8.25E-09	1.10E-07	1.37E-08	1.37E-08	6.80E-09	1.53E-07
777	257987.54	4084787.19	9.72E-08	1.30E-06	1.92E-07	1.92E-07	1.07E-07	1.89E-06	1.47E-08	1.98E-07	3.00E-08	3.00E-08	1.65E-08	2.89E-07	8.01E-09	1.07E-07	1.33E-08	1.33E-08	6.60E-09	1.48E-07
778	257963.21	4084788.19	9.38E-08	1.25E-06	1.85E-07	1.85E-07	1.03E-07	1.82E-06	1.42E-08	1.91E-07	2.90E-08	2.90E-08	1.59E-08	2.79E-07	7.73E-09	1.03E-07	1.29E-08	1.29E-08	6.38E-09	1.43E-07
779	257938.88	4084789.19	9.01E-08	1.20E-06	1.78E-07	1.78E-07	9.93E-08	1.75E-06	1.37E-08	1.83E-07	2.78E-08	2.78E-08	1.53E-08	2.68E-07	7.43E-09	9.92E-08	1.24E-08	1.24E-08	6.12E-09	1.38E-07
780	257914.55	4084790.19	8.60E-08	1.15E-06	1.70E-07	1.70E-07	9.47E-08	1.67E-06	1.30E-08	1.75E-07	2.65E-08	2.65E-08	1.46E-08	2.56E-07	7.09E-09	9.47E-08	1.18E-08	1.18E-08	5.84E-09	1.31E-07
781	257890.21	4084791.19	8.14E-08	1.09E-06	1.61E-07	1.61E-07	8.97E-08	1.58E-06	1.24E-08	1.66E-07	2.51E-08	2.51E-08	1.38E-08	2.42E-07	6.71E-09	8.97E-08	1.12E-08	1.12E-08	5.53E-09	1.24E-07
782	257865.88	4084792.19	7.64E-08	1.02E-06	1.51E-07	1.51E-07	8.42E-08	1.48E-06	1.16E-08	1.56E-07	2.36E-08	2.36E-08	1.30E-08	2.27E-07	6.30E-09	8.42E-08	1.05E-08	1.05E-08	5.20E-09	1.17E-07
783	257841.55	4084793.19	7.11E-08	9.49E-07	1.40E-07	1.40E-07	7.83E-08	1.38E-06	1.08E-08	1.45E-07	2.19E-08	2.19E-08	1.21E-08	2.11E-07	5.86E-09	7.83E-08	9.76E-09	9.76E-09	4.83E-09	1.08E-07
784	257817.22	4084794.19	6.53E-08	8.73E-07	1.29E-07	1.29E-07	7.20E-08	1.27E-06	9.91E-09	1.33E-07	2.02E-08	2.02E-08	1.11E-08	1.94E-07	5.38E-09	7.19E-08	8.97E-09	8.97E-09	4.44E-09	9.97E-08
785	257792.89	4084795.19	5.93E-08	7.92E-07	1.17E-07	1.17E-07	6.53E-08	1.15E-06	9.00E-09	1.21E-07	1.83E-08	1.83E-08	1.01E-08	1.76E-07	4.89E-09	6.53E-08	8.14E-09	8.14E-09	4.03E-09	9.05E-08
786	257768.55	4084796.19	5.31E-08	7.09E-07	1.05E-07	1.05E-07	5.85E-08	1.03E-06	8.05E-09	1.08E-07	1.64E-08	1.64E-08	9.00E-09	1.58E-07	4.37E-09	5.84E-08	7.29E-09	7.29E-09	3.61E-09	8.10E-08
787	257744.22	4084797.19	4.68E-08	6.25E-07	9.25E-08	9.25E-08	5.16E-08	9.09E-07	7.11E-09	9.53E-08	1.44E-08	1.44E-08	7.94E-09	1.39E-07	3.86E-09	5.15E-08	6.43E-09	6.43E-09	3.18E-09	7.14E-08
788	257719.89	4084798.19	4.07E-08	5.44E-07	8.05E-08	8.05E-08	4.49E-08	7.91E-07	6.18E-09	8.29E-08	1.26E-08	1.26E-08	6.91E-09	1.21E-07	3.36E-09	4.48E-08	5.59E-09	5.59E-09	2.77E-09	6.21E-08
789	257695.56	4084799.19	3.50E-08	4.68E-07	6.92E-08	6.92E-08	3.86E-08	6.80E-07	5.31E-09	7.12E-08	1.08E-08	1.08E-08	5.94E-09	1.04E-07	2.89E-09	3.85E-08	4.81E-09	4.81E-09	2.38E-09	5.34E-08
790	257671.23	4084800.2	2.99E-08	3.99E-07	5.91E-08	5.91E-08	3.29E-08	5.80E-07	4.54E-09	6.08E-08	9.22E-09	9.22E-09	5.07E-09	8.89E-08	2.46E-09	3.29E-08	4.10E-09	4.10E-09	2.03E-09	4.56E-08
791	257646.9	4084801.2	2.55E-08	3.41E-07	5.04E-08	5.04E-08	2.81E-08	4.95E-07	3.87E-09	5.19E-08	7.87E-09	7.87E-09	4.33E-09	7.59E-08	2.10E-09	2.81E-08	3.50E-09	3.50E-09	1.73E-09	3.89E-08
792	257622.56	4084802.2	2.19E-08	2.93E-07	4.34E-08	4.34E-08	2.42E-08	4.26E-07	3.33E-09	4.47E-08	6.77E-09	6.77E-09	3.72E-09	6.52E-08	1.81E-09	2.42E-08	3.01E-09	3.01E-09	1.49E-09	3.35E-08
793	257598.23	4084803.2	1.91E-08	2.55E-07	3.78E-08	3.78E-08	2.11E-08	3.71E-07	2.90E-09	3.89E-08	5.90E-09	5.90E-09	3.24E-09	5.68E-08	1.58E-09	2.10E-08	2.62E-09	2.62E-09	1.30E-09	2.92E-08
794	257573.9	4084804.2	1.69E-08	2.26E-07	3.34E-08	3.34E-08	1.86E-08	3.28E-07	2.56E-09	3.44E-08	5.21E-09	5.21E-09	2.87E-09	5.02E-08	1.39E-09	1.86E-08	2.32E-09	2.32E-09	1.15E-09	2.58E-08
795	257549.57	4084805.2	1.51E-08	2.02E-07	2.99E-08	2.99E-08	1.67E-08	2.94E-07	2.30E-09	3.08E-08	4.67E-09	4.67E-09	2.57E-09	4.50E-08	1.25E-09	1.67E-08	2.08E-09	2.08E-09	1.03E-09	2.31E-08
796	258371.12	4084729.88	8.73E-08	1.17E-06	1.73E-07	1.73E-07	9.62E-08	1.70E-06	1.33E-08	1.78E-07	2.69E-08	2.69E-08	1.48E-08	2.60E-07	7.20E-09	9.62E-08	1.20E-08	1.20E-08	5.93E-09	1.33E-07
797	258412.43	4084745.17	9.42E-08	1.26E-06	1.86E-07	1.86E-07	1.04E-07	1.83E-06	1.43E-08	1.92E-07	2.91E-08	2.91E-08	1.60E-08	2.80E-07	7.76E-09	1.04E-07	1.29E-08	1.29E-08	6.40E-09	1.44E-07
798	258453.74	4084760.46	9.88E-08	1.32E-06	1.95E-07	1.95E-07	1.09E-07	1.92E-06	1.50E-08	2.01E-07	3.05E-08	3.05E-08	1.68E-08	2.94E-07	8.14E-09	1.09E-07	1.36E-08	1.36E-08	6.71E-09	1.51E-07
799	258504.13	4084795.83	1.05E-07	1.40E-06	2.07E-07	2.07E-07	1.15E-07	2.03E-06	1.59E-08	2.13E-07	3.23E-08	3.23E-08	1.78E-08	3.12E-07	8.64E-09	1.15E-07	1.44E-08	1.44E-08	7.12E-09	1.60E-07
800	258522.28	4084835.96	1.11E-07	1.48E-06	2.19E-07	2.19E-07	1.22E-07	2.15E-06	1.68E-08	2.26E-07	3.42E-08	3.42E-08	1.88E-08	3.30E-07	9.15E-09	1.22E-07	1.52E-08	1.52E-08	7.54E-09	1.69E-07
801	258540.44	4084876.09	1.07E-07	1.43E-06	2.12E-07	2.12E-07	1.18E-07	2.08E-06	1.63E-08	2.18E-07	3.31E-08	3.31E-08	1.82E-08	3.19E-07	8.83E-09	1.18E-07	1.47E-08	1.47E-08	7.28E-09	1.64E-07
802	258326.13	4084723.23	8.37E-08	1.12E-06	1.65E-07	1.65E-07	9.22E-08	1.62E-06	1.27E-08	1.70E-07	2.58E-08	2.58E-08	1.42E-08	2.49E-07	6.90E-09	9.21E-08	1.15E-08	1.15E-08	5.69E-09	1.28E-07
803	258301.8	4084724.23	8.36E-08	1.12E-06	1.65E-07	1.65E-07	9.21E-08	1.62E-06	1.27E-08	1.70E-07	2.58E-08	2.58E-08	1.42E-08	2.48E-07	6.89E-09	9.20E-08	1.15E-08	1.15E-08	5.68E-09	1.27E-07
804	258277.47	4084725.23	8.32E-08	1.11E-06	1.64E-07	1.64E-07	9.17E-08	1.62E-06	1.26E-08	1.69E-07	2.57E-08	2.57E-08	1.41E-08	2.47E-07	6.86E-09	9.16E-08	1.14E-08	1.14E-08	5.65E-09	1.27E-07
805	258253.14	4084726.23	8.27E-08	1.10E-06	1.63E-07	1.63E-07	9.11E-08	1.60E-06	1.25E-08	1.68E-07	2.55E-08	2.55E-08	1.40E-08	2.46E-07	6.81E-09	9.10E-08	1.13E-08	1.13E-08	5.62E-09	1.26E-07
806	258228.81	4084727.23	8.20E-08	1.09E-06	1.62E-07	1.62E-07	9.03E-08	1.59E-06	1.24E-08	1.67E-07	2.53E-08	2.53E-08	1.39E-08	2.44E-07	6.76E-09	9.02E-08	1.13E-08	1.13E-08	5.57E-09	1.25E-07
807	258204.47	4084728.23	8.11E-08	1.08E-06	1.60E-07	1.60E-07	8.93E-08	1.57E-06	1.23E-08	1.65E-07	2.50E-08	2.50E-08	1.38E-08	2.41E-07	6.68E-09	8.93E-08	1.11E-08	1.11E-08	5.51E-09	1.24E-07
808	258180.14	4084729.23	8.00E-08	1.07E-06	1.58E-07	1.58E-07	8.82E-08	1.55E-06	1.21E-08	1.63E-07	2.47E-08	2.47E-08	1.36E-08	2.38E-07	6.60E-09	8.81E-08	1.10E-08	1.10E-08	5.44E-09	1.22E-07
809	258155.81	4084730.23	7.88E-08	1.05E-06	1.56E-07	1.56E-07	8.68E-08	1.53E-06	1.20E-08	1.60E-07	2.43E-08	2.43E-08	1.34E-08	2.34E-07	6.49E-09	8.67E-08	1.08E-08	1.08E-08	5.35E-09	1.20E-07
810	258131.48	4084731.23	7.74E-08	1.03E-06	1.53E-07	1.53E-07	8.53E-08	1.50E-06	1.17E-08	1.57E-07	2.39E-08	2.39E-08	1.31E-08	2.30E-07	6.38E-09	8.52E-08	1.06E-08	1.06E-08	5.26E-09	1.18E-07
811	258107.15	4084732.23	7.58E-08	1.01E-06	1.50E-07	1.50E-07	8.35E-08	1.47E-06	1.15E-08	1.54E-07	2.34E-08	2.34E-08	1.29E-08	2.25E-07	6.25E-09	8.34E-08	1.04E-08	1.04E-08	5.15E-09	1.16E-07
812	258082.81	4084733.23	7.40E-08	9.88E-07	1.46E-07	1.46E-07	8.15E-08	1.44E-06	1.12E-08	1.51E-07	2.28E-08	2.28E-08	1.25E-08	2.20E-07	6.10E-09	8.14E-08	1.02E-08	1.02E-08	5.03E-09	1.13E-07
813	258058.48	4084734.23	7.19E-08	9.61E-07	1.42E-07	1.42E-07	7.93E-08	1.40E-06	1.09E-08	1.46E-07	2.22E-08	2.22E-08	1.22E-08	2.14E-07	5.93E-09	7.92E-08	9.88E-09	9.88E-09	4.89E-09	1.10E-07
814	258034.15	4084735.23	6.97E-08	9.31E-07	1.38E-07	1.38E-07	7.68E-08	1.35E-06	1.06E-08	1.42E-07	2.15E-08	2.15E-08	1.18E-08	2.07E-07	5.75E-09	7.67E-08	9.57E-09	9.57E-09	4.74E-09	1.06E-07
815	258009.82	4084736.23	6.72E-08	8.98E-07	1.33E-07	1.33E-07	7.41E-08	1.30E-06	1.02E-08	1.37E-07	2.07E-08	2.07E-08	1.14E-08	2.00E-07	5.54E-09	7.40E-08	9.23E-09	9.23E-09	4.57E-09	1.03E-07
816	257985.49	4084737.23	6.45E-08	8.62E-07	1.27E-07	1.27E-07	7.11E-08	1.25E-06	9.79E-09	1.31E-07	1.99E-08	1.99E-08	1.09E-08	1.92E-07	5.32E-09	7.10E-08	8.86E-09	8.86E-09	4.38E-09	9.84E-08
817	257961.16	4084738.23	6.15E-08	8.22E-07	1.22E-07	1.22E-07	6.78E-08	1.19E-06	9.34E-09	1.25E-07	1.90E-08	1.90E-08	1.04E-08	1.83E-07	5.07E-09	6.78E-08	8.45E-09	8.45E-09	4.18E-09	9.39E-08
818	257936.82	4084739.23	5.83E-08	7.79E-07	1.15E-07	1.15E-07	6.43E-08	1.13E-06	8.85E-09	1.19E-07	1.80E-08	1.80E-08	9.89E-09	1.73E-07	4.81E-09	6.42E-08	8.01E-09	8.01E-09	3.96E-09	8.90E-08
819	257912.49	4084740.23	5.49E-08	7.33E-07	1.08E-07	1.08E-07	6.05E-08	1.07E-06	8.33E-09	1.12E-07	1.69E-08	1.69E-08	9.31E-09	1.63E-07	4.52E-09	6.04E-08	7.54E-09	7.54E-09	3.73E-09	8.38E-08
820	257888.16	4084741.23	5.12E-08	6.84E-07	1.01E-07	1.01E-07	5.65E-08	9.95E-07	7.78E-09	1.04E-07	1.58E-08	1.58E-08	8.69E-09	1.52E-07	4.22E-09	5.64E-08	7.04E-09	7.04E-09	3.48E-09	7.82E-08
821	257863.83	4084742.23	4.74E-08	6.33E-07	9.37E-08	9.37E-08	5.22E-08	9.21E-07	7.20E-09	9.65E-08	1.46E-08	1.46E-08	8.04E-09	1.41E-07	3.91E-09	5.22E-08	6.51E-09	6.51E-09	3.22E-09	7.24E-08
822	257839.5	4084743.24	4.35E-08	5.81E-07	8.59E-08	8.59E-08	4.79E-08	8.44E-07	6.60E-09	8.85E-08	1.34E-08	1.34E-08	7.38E-09	1.29E-07	3.58E-09	4.79E-08	5.97E-09	5.97E-09	2.95E-09	6.63E-08

823	257815.16	4084744.24	3.95E-08	5.27E-07	7.80E-08	7.80E-08	4.35E-08	7.66E-07	5.99E-09	8.03E-08	1.22E-08	1.22E-08	6.70E-09	1.17E-07	3.25E-09	4.35E-08	5.42E-09	5.42E-09	2.68E-09	6.02E-08
824	257790.83	4084745.24	3.55E-08	4.74E-07	7.01E-08	7.01E-08	3.91E-08	6.89E-07	5.38E-09	7.22E-08	1.09E-08	1.09E-08	6.02E-09	1.05E-07	2.92E-09	3.91E-08	4.87E-09	4.87E-09	2.41E-09	5.41E-08
825	257766.5	4084746.24	3.16E-08	4.22E-07	6.25E-08	6.25E-08	3.48E-08	6.13E-07	4.80E-09	6.43E-08	9.75E-09	9.75E-09	5.36E-09	9.40E-08	2.60E-09	3.48E-08	4.34E-09	4.34E-09	2.15E-09	4.82E-08
826	257742.17	4084747.24	2.79E-08	3.73E-07	5.52E-08	5.52E-08	3.08E-08	5.42E-07	4.24E-09	5.68E-08	8.62E-09	8.62E-09	4.74E-09	8.31E-08	2.30E-09	3.08E-08	3.84E-09	3.84E-09	1.90E-09	4.26E-08
827	257717.84	4084748.24	2.46E-08	3.28E-07	4.86E-08	4.86E-08	2.71E-08	4.77E-07	3.73E-09	5.00E-08	7.58E-09	7.58E-09	4.17E-09	7.31E-08	2.03E-09	2.71E-08	3.37E-09	3.37E-09	1.67E-09	3.75E-08
828	257693.51	4084749.24	2.16E-08	2.88E-07	4.26E-08	4.26E-08	2.38E-08	4.19E-07	3.27E-09	4.39E-08	6.66E-09	6.66E-09	3.66E-09	6.41E-08	1.78E-09	2.38E-08	2.96E-09	2.96E-09	1.47E-09	3.29E-08
829	257669.17	4084750.24	1.90E-08	2.54E-07	3.75E-08	3.75E-08	2.09E-08	3.69E-07	2.88E-09	3.86E-08	5.86E-09	5.86E-09	3.22E-09	5.64E-08	1.56E-09	2.09E-08	2.61E-09	2.61E-09	1.29E-09	2.90E-08
830	257644.84	4084751.24	1.68E-08	2.24E-07	3.32E-08	3.32E-08	1.85E-08	3.26E-07	2.55E-09	3.42E-08	5.18E-09	5.18E-09	2.85E-09	5.00E-08	1.38E-09	1.85E-08	2.31E-09	2.31E-09	1.14E-09	2.56E-08
831	257620.51	4084752.24	1.50E-08	2.00E-07	2.96E-08	2.96E-08	1.65E-08	2.91E-07	2.28E-09	3.05E-08	4.63E-09	4.63E-09	2.54E-09	4.46E-08	1.24E-09	1.65E-08	2.06E-09	2.06E-09	1.02E-09	2.29E-08
832	257596.18	4084753.24	1.35E-08	1.80E-07	2.67E-08	2.67E-08	1.49E-08	2.62E-07	2.05E-09	2.75E-08	4.17E-09	4.17E-09	2.29E-09	4.01E-08	1.11E-09	1.49E-08	1.85E-09	1.85E-09	9.17E-10	2.06E-08
833	257571.85	4084754.24	1.23E-08	1.64E-07	2.42E-08	2.42E-08	1.35E-08	2.38E-07	1.86E-09	2.50E-08	3.79E-09	3.79E-09	2.08E-09	3.65E-08	1.01E-09	1.35E-08	1.68E-09	1.68E-09	8.34E-10	1.87E-08
834	257547.51	4084755.24	1.12E-08	1.50E-07	2.22E-08	2.22E-08	1.24E-08	2.18E-07	1.71E-09	2.29E-08	3.47E-09	3.47E-09	1.91E-09	3.34E-08	9.27E-10	1.24E-08	1.54E-09	1.54E-09	7.64E-10	1.72E-08
835	258371	4084680.64	6.70E-08	8.95E-07	1.32E-07	1.32E-07	7.38E-08	1.30E-06	1.02E-08	1.36E-07	2.07E-08	2.07E-08	1.14E-08	1.99E-07	5.53E-09	7.38E-08	9.20E-09	9.20E-09	4.55E-09	1.02E-07
836	258393.59	4084689	7.01E-08	9.37E-07	1.39E-07	1.39E-07	7.73E-08	1.36E-06	1.06E-08	1.43E-07	2.16E-08	2.16E-08	1.19E-08	2.08E-07	5.78E-09	7.72E-08	9.63E-09	9.63E-09	4.76E-09	1.07E-07
837	258416.18	4084697.36	7.30E-08	9.75E-07	1.44E-07	1.44E-07	8.04E-08	1.42E-06	1.11E-08	1.49E-07	2.25E-08	2.25E-08	1.24E-08	2.17E-07	6.02E-09	8.04E-08	1.00E-08	1.00E-08	4.96E-09	1.11E-07
838	258438.77	4084705.73	7.56E-08	1.01E-06	1.49E-07	1.49E-07	8.33E-08	1.47E-06	1.15E-08	1.54E-07	2.33E-08	2.33E-08	1.28E-08	2.25E-07	6.23E-09	8.32E-08	1.04E-08	1.04E-08	5.14E-09	1.15E-07
839	258461.37	4084714.09	7.77E-08	1.04E-06	1.54E-07	1.54E-07	8.56E-08	1.51E-06	1.18E-08	1.58E-07	2.40E-08	2.40E-08	1.32E-08	2.31E-07	6.40E-09	8.55E-08	1.07E-08	1.07E-08	5.28E-09	1.19E-07
840	258483.96	4084722.46	7.91E-08	1.06E-06	1.56E-07	1.56E-07	8.72E-08	1.54E-06	1.20E-08	1.61E-07	2.44E-08	2.44E-08	1.34E-08	2.35E-07	6.52E-09	8.71E-08	1.09E-08	1.09E-08	5.38E-09	1.21E-07
841	258506.55	4084730.82	7.96E-08	1.06E-06	1.57E-07	1.57E-07	8.77E-08	1.55E-06	1.21E-08	1.62E-07	2.46E-08	2.46E-08	1.35E-08	2.37E-07	6.56E-09	8.76E-08	1.09E-08	1.09E-08	5.41E-09	1.21E-07
842	258539.07	4084761.13	8.35E-08	1.12E-06	1.65E-07	1.65E-07	9.20E-08	1.62E-06	1.27E-08	1.70E-07	2.58E-08	2.58E-08	1.42E-08	2.48E-07	6.89E-09	9.20E-08	1.15E-08	1.15E-08	5.68E-09	1.27E-07
843	258549	4084783.08	8.67E-08	1.16E-06	1.71E-07	1.71E-07	9.55E-08	1.68E-06	1.32E-08	1.76E-07	2.67E-08	2.67E-08	1.47E-08	2.58E-07	7.14E-09	9.54E-08	1.19E-08	1.19E-08	5.89E-09	1.32E-07
844	258558.93	4084805.03	8.82E-08	1.18E-06	1.74E-07	1.74E-07	9.72E-08	1.71E-06	1.34E-08	1.79E-07	2.72E-08	2.72E-08	1.50E-08	2.62E-07	7.27E-09	9.71E-08	1.21E-08	1.21E-08	5.99E-09	1.35E-07
845	258568.86	4084826.98	8.78E-08	1.17E-06	1.74E-07	1.74E-07	9.68E-08	1.70E-06	1.33E-08	1.79E-07	2.71E-08	2.71E-08	1.49E-08	2.61E-07	7.24E-09	9.67E-08	1.21E-08	1.21E-08	5.97E-09	1.34E-07
846	258578.79	4084848.92	8.54E-08	1.14E-06	1.69E-07	1.69E-07	9.41E-08	1.66E-06	1.30E-08	1.74E-07	2.63E-08	2.63E-08	1.45E-08	2.54E-07	7.04E-09	9.40E-08	1.17E-08	1.17E-08	5.80E-09	1.30E-07
847	258588.71	4084870.87	8.10E-08	1.08E-06	1.60E-07	1.60E-07	8.93E-08	1.57E-06	1.23E-08	1.65E-07	2.50E-08	2.50E-08	1.37E-08	2.41E-07	6.68E-09	8.92E-08	1.11E-08	1.11E-08	5.51E-09	1.24E-07
848	258598.64	4084892.82	7.52E-08	1.00E-06	1.49E-07	1.49E-07	8.28E-08	1.46E-06	1.14E-08	1.53E-07	2.32E-08	2.32E-08	1.28E-08	2.24E-07	6.20E-09	8.28E-08	1.03E-08	1.03E-08	5.11E-09	1.15E-07
849	258348.41	4084672.27	6.38E-08	8.53E-07	1.26E-07	1.26E-07	7.03E-08	1.24E-06	9.69E-09	1.30E-07	1.97E-08	1.97E-08	1.08E-08	1.90E-07	5.26E-09	7.03E-08	8.76E-09	8.76E-09	4.34E-09	9.74E-08
850	258324.08	4084673.27	6.36E-08	8.49E-07	1.26E-07	1.26E-07	7.00E-08	1.23E-06	9.65E-09	1.29E-07	1.96E-08	1.96E-08	1.08E-08	1.89E-07	5.24E-09	7.00E-08	8.73E-09	8.73E-09	4.32E-09	9.70E-08
851	258299.75	4084674.27	6.31E-08	8.43E-07	1.25E-07	1.25E-07	6.95E-08	1.23E-06	9.58E-09	1.28E-07	1.95E-08	1.95E-08	1.07E-08	1.88E-07	5.20E-09	6.95E-08	8.66E-09	8.66E-09	4.29E-09	9.63E-08
852	258275.42	4084675.27	6.25E-08	8.35E-07	1.24E-07	1.24E-07	6.89E-08	1.21E-06	9.49E-09	1.27E-07	1.93E-08	1.93E-08	1.06E-08	1.86E-07	5.15E-09	6.88E-08	8.58E-09	8.58E-09	4.25E-09	9.54E-08
853	258251.08	4084676.27	6.18E-08	8.25E-07	1.22E-07	1.22E-07	6.81E-08	1.20E-06	9.37E-09	1.26E-07	1.91E-08	1.91E-08	1.05E-08	1.84E-07	5.09E-09	6.80E-08	8.48E-09	8.48E-09	4.20E-09	9.43E-08
854	258226.75	4084677.27	6.09E-08	8.13E-07	1.20E-07	1.20E-07	6.71E-08	1.18E-06	9.24E-09	1.24E-07	1.88E-08	1.88E-08	1.03E-08	1.81E-07	5.02E-09	6.70E-08	8.36E-09	8.36E-09	4.14E-09	9.29E-08
855	258202.42	4084678.27	5.98E-08	7.99E-07	1.18E-07	1.18E-07	6.59E-08	1.16E-06	9.08E-09	1.22E-07	1.85E-08	1.85E-08	1.02E-08	1.78E-07	4.93E-09	6.59E-08	8.21E-09	8.21E-09	4.07E-09	9.13E-08
856	258178.09	4084679.27	5.87E-08	7.84E-07	1.16E-07	1.16E-07	6.46E-08	1.14E-06	8.90E-09	1.19E-07	1.81E-08	1.81E-08	9.95E-09	1.74E-07	4.84E-09	6.46E-08	8.05E-09	8.05E-09	3.99E-09	8.95E-08
857	258153.76	4084680.27	5.74E-08	7.66E-07	1.13E-07	1.13E-07	6.32E-08	1.11E-06	8.71E-09	1.17E-07	1.77E-08	1.77E-08	9.73E-09	1.71E-07	4.73E-09	6.32E-08	7.88E-09	7.88E-09	3.90E-09	8.75E-08
858	258129.42	4084681.27	5.59E-08	7.47E-07	1.11E-07	1.11E-07	6.16E-08	1.09E-06	8.49E-09	1.14E-07	1.73E-08	1.73E-08	9.49E-09	1.66E-07	4.61E-09	6.16E-08	7.68E-09	7.68E-09	3.80E-09	8.53E-08
859	258105.09	4084682.27	5.43E-08	7.26E-07	1.07E-07	1.07E-07	5.99E-08	1.05E-06	8.24E-09	1.11E-07	1.68E-08	1.68E-08	9.22E-09	1.62E-07	4.48E-09	5.98E-08	7.46E-09	7.46E-09	3.69E-09	8.29E-08
860	258080.76	4084683.27	5.26E-08	7.02E-07	1.04E-07	1.04E-07	5.79E-08	1.02E-06	7.98E-09	1.07E-07	1.62E-08	1.62E-08	8.92E-09	1.56E-07	4.33E-09	5.79E-08	7.22E-09	7.22E-09	3.57E-09	8.02E-08
861	258056.43	4084684.27	5.07E-08	6.77E-07	1.00E-07	1.00E-07	5.58E-08	9.84E-07	7.69E-09	1.03E-07	1.56E-08	1.56E-08	8.60E-09	1.51E-07	4.18E-09	5.58E-08	6.96E-09	6.96E-09	3.44E-09	7.73E-08
862	258032.1	4084685.27	4.86E-08	6.50E-07	9.61E-08	9.61E-08	5.36E-08	9.44E-07	7.38E-09	9.90E-08	1.50E-08	1.50E-08	8.25E-09	1.45E-07	4.01E-09	5.35E-08	6.68E-09	6.68E-09	3.30E-09	7.42E-08
863	258007.77	4084686.28	4.64E-08	6.20E-07	9.18E-08	9.18E-08	5.12E-08	9.01E-07	7.05E-09	9.45E-08	1.43E-08	1.43E-08	7.88E-09	1.38E-07	3.83E-09	5.11E-08	6.37E-09	6.37E-09	3.16E-09	7.09E-08
864	257983.43	4084687.28	4.41E-08	5.89E-07	8.71E-08	8.71E-08	4.86E-08	8.56E-07	6.69E-09	8.97E-08	1.36E-08	1.36E-08	7.48E-09	1.31E-07	3.63E-09	4.85E-08	6.05E-09	6.05E-09	3.00E-09	6.73E-08
865	257959.1	4084688.28	4.16E-08	5.56E-07	8.23E-08	8.23E-08	4.59E-08	8.08E-07	6.32E-09	8.47E-08	1.28E-08	1.28E-08	7.06E-09	1.24E-07	3.43E-09	4.59E-08	5.72E-09	5.72E-09	2.83E-09	6.35E-08
866	257934.77	4084689.28	3.91E-08	5.22E-07	7.72E-08	7.72E-08	4.30E-08	7.58E-07	5.93E-09	7.95E-08	1.21E-08	1.21E-08	6.63E-09	1.16E-07	3.22E-09	4.30E-08	5.36E-09	5.36E-09	2.65E-09	5.96E-08
867	257910.44	4084690.28	3.64E-08	4.86E-07	7.19E-08	7.19E-08	4.01E-08	7.06E-07	5.52E-09	7.40E-08	1.12E-08	1.12E-08	6.17E-09	1.08E-07	3.00E-09	4.01E-08	5.00E-09	5.00E-09	2.47E-09	5.55E-08
868	257886.11	4084691.28	3.37E-08	4.49E-07	6.65E-08	6.65E-08	3.71E-08	6.53E-07	5.11E-09	6.85E-08	1.04E-08	1.04E-08	5.71E-09	1.00E-07	2.77E-09	3.71E-08	4.62E-09	4.62E-09	2.29E-09	5.14E-08
869	257861.77	4084692.28	3.09E-08	4.13E-07	6.11E-08	6.11E-08	3.40E-08	6.00E-07	4.69E-09	6.29E-08	9.53E-09	9.53E-09	5.24E-09	9.19E-08	2.55E-09	3.40E-08	4.24E-09	4.24E-09	2.10E-09	4.71E-08
870	257837.44	4084693.28	2.82E-08	3.76E-07	5.57E-08	5.57E-08	3.10E-08	5.47E-07	4.27E-09	5.73E-08	8.69E-09	8.69E-09	4.78E-09	8.37E-08	2.32E-09	3.10E-08	3.87E-09	3.87E-09	1.91E-09	4.30E-08
871	257813.11	4084694.28	2.55E-08	3.41E-07	5.04E-08	5.04E-08	2.81E-08	4.95E-07	3.87E-09	5.19E-08	7.87E-09	7.87E-09	4.33E-09	7.58E-08	2.10E-09	2.81E-08	3.50E-09	3.50E-09	1.73E-09	3.89E-08
872	257788.78	4084695.28	2.30E-08	3.07E-07	4.54E-08	4.54E-08	2.53E-08	4.46E-07	3.49E-09	4.67E-08	7.09E-09	7.09E-09	3.90E-09	6.83E-08	1.89E-09	2.53E-08	3.15E-09	3.15E-09	1.56E-09	3.51E-08
873	257764.45	4084696.28	2.06E-08	2.75E-07	4.07E-08	4.07E-08	2.27E-08	4.00E-07	3.13E-09	4.19E-08	6.36E-09	6.36E-09	3.50E-09	6.13E-08	1.70E-09	2.27E-08	2.83E-09	2.83E-09	1.40E-09	3.15E-08
874	257740.12	4084697.28	1.85E-08	2.47E-07	3.65E-08	3.65E-08	2.03E-08	3.58E-07	2.80E-09	3.76E-08	5.69E-09	5.69E-09	3.13E-09	5.49E-08	1.52E-09	2.03E-08	2.53E-09	2.53E-09	1.25E-09	2.82E-08
875	257715.78	4084698.28	1.65E-08	2.21E-07	3.27E-08	3.27E-08	1.82E-08	3.21E-07	2.51E-09	3.36E-08	5.10E-09	5.10E-09	2.80E-09	4.92E-08	1.36E-09	1.82E-08	2.27E-09	2.27E-09	1.12E-09	2.52E-08
876	257691.45	4084699.28	1.48E-08	1.98E-07	2.93E-08	2.93E-08	1.64E-08	2.88E-07	2.25E-09	3.02E-08	4.58E-09	4.58E-09	2.52E-09	4.41E-08	1.22E-09	1.63E-08	2.04E-09	2.04E-09	1.01E-09	2.26E-08
877	257667.12	4084700.28	1.34E-08	1.79E-07	2.65E-08	2.65E-08	1.47E-08	2.60E-07	2.03E-09	2.72E-08	4.13E-09	4.13E-09	2.27E-09	3.98E-08	1.10E-09	1.47E-08	1.84E-09	1.84E-09	9.10E-10	2.04E-08
878	257642.79	4084701.28	1.21E-08	1.62E-07	2.40E-08	2.40E-08	1.34E-08	2.36E-07	1.84E-09	2.47E-08	3.75E-09	3.75E-09	2.06E-09	3.61E-08	1.00E-09	1.34E-08	1.67E-09	1.67E-09	8.25E-10	1.85E-08
879	257618.46	4084702.28	1.11E-08	1.48E-07	2.19E-08	2.19E-08	1.22E-08	2.15E-07	1.68E-09	2.26E-08	3.42E-09	3.42E-09	1.88E-09	3.30E-08	9.14E-10	1.22E-08	1.52E-09	1.52E-09	7.53E-10	1.69E-08
880	257594.12	4084703.28	1.02E-08	1.36E-07	2.01E-08	2.01E-08	1.12E-08	1.98E-07	1.55E-09	2.07E-08	3.14E-09	3.14E-09	1.73E-09	3.03E-08	8.40E-10	1.12E-08	1.40E-09	1.40E-09	6.92E-10	1.55E-08
881	257569.79	4084704.28	9.42E-09	1.26E-07	1.86E-08	1.86E-08	1.04E-08	1.83E-07	1.43E-09	1.92E-08	2.91E-09	2.91E-09	1.60E-09	2.80E-08	7.76E-10	1.04E-08	1.29E-09	1.29E-09	6.40E-10	1.44E-08
882	257545.46	4084705.28	8.75E-09	1.17E-07	1.73E-08	1.73E-08	9.64E-09	1.70E-07	1.33E-09	1.78E-08	2.70E-09	2.70E-09	1.48E-09	2.60E-08	7.22E-10	9.64E-09	1.20E-09	1.20E-09	5.95E-10	1.34E-08
883	258368.04	4084630.34	5.22E-08	6.97E-07	1.03E-07	1.03E-07	5.75E-08	1.01E-06	7.92E-09	1.06E-07	1.61E-08	1.61E-08	8.86E-09	1.55E-07	4.30E-09	5.75E-08	7.17E-09	7.17E-09	3.55E-09	7.97E-08
884	258389.73	4084638.37	5.47E-08	7.30E-07	1.08E-07	1.08E-07	6.02E-08	1.06E-06	8.30E-09	1.11E-07	1.69E-08	1.69E-08	9.27E-09	1.63E-07	4.51E-09	6.02E-08	7.50E-09	7.50E-09	3.71E-09	8.34E-08
885	258411.42	4084646.4	5.70E-08	7.62E-07	1.13E-07	1.13E-07	6.28E-08	1.11E-06	8.65E-09	1.16E-07	1.76E-08	1.76E-08	9.67E-09	1.70E-07	4.70E-09	6.28E-08	7.83E-09	7.83E-09	3.87E-09	8.70E-08
886	258433.11	4084654.43	5.92E-08	7.91E-07	1.17E-07	1.17E-07	6.53E-08	1.15E-06	8.99E-09	1.21E-07	1.83E-08	1.83E-08	1.00E-08	1.76E-07	4.88E-09	6.52E-08	8.13E-09	8.13E-09	4.03E-09	9.04E-08
887	258454.79	4084662.46	6.12E-08	8.18E-07	1.21E-07	1.21E-07	6.75E-08	1.19E-06	9.30E-09	1.25E-07	1.89E-08	1.89E-08	1.04E-08	1.82E-07	5.05E-09	6.74E-08	8.41E-09	8.41E-09	4.16E-09	9.35E-08
888	258476.48	4084670.49	6.30E-08	8.41E-07	1.24E-07	1.24E-07	6.94E-08	1.22E-06	9.56E-09	1.28E-07	1.94E-08	1.94E-08	1.07E-08	1.87E-07	5.19E-09	6.93E-08	8.65E-09	8.65E-09	4.28E-09	9.61E-08
889	258498.17	4084678.52	6.43E-08	8.59E-07	1.27E-07	1.27E-07	7.09E-08	1.25E-06	9.76E-09	1.31E-07	1.98E-08	1.98E-08	1.09E-08	1.91E-07	5.30E-09	7.08E-08	8.83E-09	8.83E-09	4.37E-09	9.81E-08
890	258519.86	4084686.55	6.52E-08	8.70E-07	1.29E-07	1.29E-07	7.18E-08	1.26E-06	9.89E-09	1.33E-07	2.01E-08	2.01E-08	1.11E-08	1.94E-07	5.37E-09	7.17E-08	8.94E-09	8.94E-09	4.43E-09	9.94E-08
891	258541.54	4084694.58	6.54E-08	8.73E-07	1.29E-07	1.29E-07	7.20E-08	1.27E-06	9.92E-09	1.33E-07	2.02E-08	2.02E-08	1.11E-08	1.94E-07	5.39E-09	7.20E-08	8.98E-09	8.98E-09	4.44E-09	9.98E-08
892	258572.76	4084723.68	6.81E-08	9.10E-07	1.35E-07	1.35E-07	7.51E-08	1.32E-06	1.03E-08	1.39E-07	2.10E-08	2.10E-08	1.16E-08	2.03E-07	5.62E-09	7.50E-08	9.35E-09	9.35E-09	4.63E-09	1.04E-07
893	258582.29	4084744.75	7.06E-08	9.44E-07	1.40E-07	1.40E-07	7.78E-08	1.37E-06	1.07E-08	1.44E-07	2.18E-08	2.18E-08	1.20E-08	2.10E-07	5.82E-09	7.78E-08	9.70E-09	9.70E-09	4.80E-09	1.08E-07
894	258591.83	4084765.82	7.19E-08	9.60E-07	1.42E-07	1.42E-07	7.92E-08	1.40E-06	1.09E-08	1.46E-07	2.22E-08	2.22E-08	1.22E-08	2.14E-07	5.93E-09	7.92E-08	9.87E-09	9.87E-09	4.89E-09	1.10E-07
895	258601.36	4084786.89	7.22E-08	9.65E-07	1.43E-07	1.43E-07	7.96E-08	1.40E-06	1.10E-08	1.47E-07	2.23E-08	2.23E-08	1.23E-08	2.15E-07	5.95E-09	7.95E-08	9.92E-09	9.92E-09	4.91E-09	1.10E-07
896	258610.89	4084807.96	7.13E-08	9.52E-07	1.41E-07	1.41E-07	7.85E-08	1.38E-06	1.08E-08	1.45E-07	2.20E-08	2.20E-08	1.21E-08	2.12E-07	5.88E-09	7.85E-08	9.79E-09	9.79E-09	4.84E-09	1.09E-07
897	258620.42	4084829.03	6.91E-08	9.23E-07	1.37E-07	1.37E-07	7.61E-08	1.34E-06	1.05E-08	1.41E-07	2.13E-08	2.13E-08	1.17E-08	2.05E-07	5.69E-09	7.61E-08	9.48E-09	9.48E-09	4.69E-09	1.05E-07
898	258629.96	4084850.1	6.57E-08	8.78E-07	1.30E-07	1.30E-07	7.24E-08	1.28E-06	9.98E-09	1.34E-07	2.03E-08	2.03E-08	1.11E-08	1.95E-07	5.42E-09	7.24E-08	9.02E-09	9.02E-09	4.47E-09	1.00E-07
899	258639.49	4084871.17	6.15E-08	8.21E-07	1.22E-07	1.22E-07	6.78E-08	1.19E-06	9.33E-09	1.25E-07	1.90E-08	1.90E-08	1.04E-08	1.83E-07	5.07E-09	6.77E-08	8.44E-09	8.44E-09	4.18E-09	9.38E-08
900	258649.02	4084892.24	5.67E-08	7.57E-07	1.12E-07	1.12E-07	6.24E-08	1.10E-06	8.60E-09	1.15E-07	1.75E-08	1.75E-08	9.62E-09	1.69E-07	4.67E-09	6.24E-08	7.78E-09	7.78E-09	3.85E-09	8.65E-08
901	258346.36	4084622.31	4.97E-08	6.64E-07	9.82E-08	9.82E-08	5.48E-08	9.65E-07	7.54E-09	1.01E-07	1.53E-08	1.53E-08	8.43E-09	1.48E-07	4.10E-09	5.47E-08	6.82E-09	6.82E-09	3.38E-09	7.58E-08
902	258322.03	4084623.31	4.92E-08	6.57E-07	9.73E-08	9.73E-08	5.42E-08	9.55E-07	7.47E-09	1.00E-07	1.52E-08	1.52E-08	8.35E-09	1.46E-07	4.06E-09	5.42E-08	6.76E-09	6.76E-09	3.34E-09	7.51E-08
903	258297.69	4084624.31	4.86E-08	6.49E-07	9.61E-08	9.61E-08	5.36E-08	9.44E-07	7.38E-09	9.89E-08	1.50E-08	1.50E-08	8.25E-09	1.45E-07	4.01E-09	5.35E-08	6.67E-09	6.67E-09	3.30E-09	7.42E-08
904	258273.36	4084625.31	4.79E-08	6.40E-07	9.47E-08	9.47E-08	5.28E-08	9.30E-07	7.27E-09	9.75E-08	1.48E-08	1.48E-08	8.13E-09	1.42E-07	3.95E-09	5.27E-08	6.58E-09	6.58E-09	3.26E-09	7.31E-08
905	258249.03	4084626.31	4.71E-08	6.29E-07	9.30E-08	9.30E-08	5.18E-08	9.13E-07	7.14E-09	9.58E-08	1.45E-08	1.45E-08	7.98E-09	1.40E-07	3.88E-09	5.18E-08	6.46E-09	6.46E-09	3.20E-09	7.18E-08
906	258224.7	4084627.31	4.61E-08	6.16E-07	9.11E-08	9.11E-08	5.08E-08	8.95E-07	7.00E-09	9.39E-08	1.42E-08	1.42E-08	7.82E-09	1.37E-07	3.80E-09	5.08E-08	6.33E-09	6.33E-09	3.13E-09	7.04E-08
907	258200.37	4084628.32	4.51E-08	6.02E-07	8.90E-08	8.90E-08	4.96E-08	8.75E-07	6.84E-09	9.17E-08	1.39E-08	1.39E-08	7.64E-09	1.34E-07	3.71E-09	4.96E-08	6.19E-09	6.19E-09	3.06E-09	6.88E-08
908	258176.03	4084629.32	4.39E-08	5.86E-07	8.67E-08	8.67E-08	4.83E-08	8.52E-07	6.66E-09	8.93E-08	1.35E-08	1.35E-08	7.44E-09	1.30E-07	3.62E-09	4.83E-08	6.02E-09	6.02E-09	2.98E-09	6.70E-08
909	258151.7	4084630.32	4.26E-08	5.69E-07	8.42E-08	8.42E-08	4.69E-08	8.27E-07	6.47E-09	8.67E-08	1.31E-08	1.31E-08	7.23E-09	1.27E-07	3.51E-09	4.69E-08	5.85E-09	5.85E-09	2.89E-09	6.50E-08
910	258127.37	4084631.32	4.12E-08	5.51E-07	8.15E-08	8.15E-08	4.54E-08	8.00E-07	6.26E-09	8.39E-08	1.27E-08	1.27E-08	6.99E-09	1.23E-07	3.40E-09	4.54E-08	5.66E-09	5.66E-09	2.80E-09	6.29E-08
911	258103.04	4084632.32	3.97E-08	5.30E-07	7.84E-08	7.84E-08	4.37E-08	7.70E-07	6.02E-09	8.08E-08	1.22E-08	1.22E-08	6.73E-09	1.18E-07	3.27E-09	4.37E-08	5.45E-09	5.45E-09	2.70E-09	6.06E-08
912	258078.71	4084633.32	3.81E-08	5.09E-07	7.53E-08	7.53E-08	4.20E-08	7.40E-07	5.78E-09	7.75E-08	1.18E-08	1.18E-08	6.46E-09	1.13E-07	3.14E-09	4.19E-08	5.23E-09	5.23E-09	2.59E-09	5.81E-08
913	258054.38	4084634.32	3.64E-08	4.86E-07	7.20E-08	7.20E-08	4.01E-08	7.07E-07	5.53E-09	7.41E-08	1.12E-08	1.12E-08	6.18E-09	1.08E-07	3.00E-09	4.01E-08	5.00E-09	5.00E-09	2.47E-09	5.56E-08
914	258030.04	4084635.32	3.47E-08	4.63E-07	6.85E-08	6.85E-08	3.82E-08	6.73E-07	5.26E-09	7.05E-08	1.07E-08	1.07E-08	5.88E-09	1.03E-07	2.86E-09	3.82E-08	4.76E-09	4.76E-09	2.36E-09	5.29E-08
915	258005.71	4084636.32	3.28E-08	4.39E-07	6.49E-08	6.49E-08	3.62E-08	6.37E-07	4.98E-09	6.68E-08	1.01E-08	1.01E-08	5.57E-09	9.77E-08	2.71E-09	3.62E-08	4.51E-09	4.51E-09	2.23E-09	5.01E-08
916	257981.38	4084637.32	3.09E-08	4.13E-07	6.11E-08	6.11E-08	3.41E-08	6.00E-07	4.69E-09	6.29E-08	9.54E-09	9.54E-09	5.25E-09	9.20E-08	2.55E-09	3.41E-08	4.25E-09	4.25E-09	2.10E-09	4.72E-08
917	257957.05	4084638.32	2.90E-08	3.87E-07	5.72E-08	5.72E-08	3.19E-08	5.62E-07	4.40E-09	5.89E-08	8.94E-09	8.94E-09	4.91E-09	8.61E-08	2.39E-09	3.19E-08	3.98E-09	3.98E-09	1.97E-09	4.42E-08
918	257932.72	4084639.32	2.70E-08	3.60E-07	5.33E-08	5.33E-08	2.97E-08	5.24E-07	4.09E-09	5.49E-08	8.32E-09	8.32E-09	4.58E-09	8.02E-08	2.22E-09	2.97E-08	3.70E-09	3.70E-09	1.83E-09	4.12E-08
919	257908.38	4084640.32	2.50E-08	3.34E-07	4.94E-08	4.94E-08	2.75E-08	4.85E-07	3.79E-09	5.08E-08	7.71E-09	7.71E-09	4.24E-09	7.43E-08	2.06E-09	2.75E-08	3.43E-09	3.43E-09	1.70E-09	3.81E-08
920	257884.05	4084641.32	2.30E-08	3.08E-07	4.55E-08	4.55E-08	2.54E-08	4.47E-07	3.49E-09	4.69E-08	7.10E-09	7.10E-09	3.91E-09	6.85E-08	1.90E-09	2.54E-08	3.16E-09	3.16E-09	1.56E-09	3.51E-08
921	257859.72	4084642.32	2.11E-08	2.82E-07	4.17E-08	4.17E-08	2.33E-08	4.10E-07	3.20E-09	4.30E-08	6.52E-09	6.52E-09	3.58E-09	6.28E-08	1.74E-09	2.32E-08	2.90E-09	2.90E-09	1.43E-09	3.22E-08
922	257835.39	4084643.32	1.93E-08	2.58E-07	3.81E-08	3.81E-08	2.12E-08	3.74E-07	2.93E-09	3.92E-08	5.95E-09	5.95E-09	3.27E-09	5.73E-08	1.59E-09	2.12E-08	2.65E-09	2.65E-09	1.31E-09	2.94E-08
923	257811.06	4084644.32	1.76E-08	2.35E-07	3.47E-08	3.47E-08	1.94E-08	3.41E-07	2.67E-09	3.57E-08	5.42E-09	5.42E-09	2.98E-09	5.22E-08	1.45E-09	1.93E-08	2.41E-09	2.41E-09	1.19E-09	2.68E-08
924	257786.73	4084645.32	1.60E-08	2.13E-07	3.16E-08	3.16E-08	1.76E-08	3.10E-07	2.42E-09	3.25E-08	4.93E-09	4.93E-09	2.71E-09	4.75E-08	1.32E-09	1.76E-08	2.19E-09	2.19E-09	1.08E-09	2.44E-08
925	257762.39	4084646.32	1.45E-08	1.94E-07	2.87E-08	2.87E-08	1.60E-08	2.82E-07	2.20E-09	2.95E-08	4.48E-09	4.48E-09	2.46E-09	4.31E-08	1.20E-09	1.60E-08	1.99E-09	1.99E-09	9.86E-10	2.21E-08
926	257738.06	4084647.32	1.32E-08	1.76E-07	2.61E-08	2.61E-08	1.45E-08	2.56E-07	2.00E-09	2.68E-08	4.07E-09	4.07E-09	2.24E-09	3.92E-08	1.09E-09	1.45E-08	1.81E-09	1.81E-09	8.97E-10	2.01E-08
927	257713.73	4084648.32	1.20E-08	1.61E-07	2.38E-08	2.38E-08	1.33E-08	2.33E-07	1.83E-09	2.45E-08	3.71E-09	3.71E-09	2.04E-09	3.58E-08	9.91E-10	1.32E-08	1.65E-09	1.65E-09	8.17E-10	1.84E-08
928	257689.4	4084649.32	1.10E-08	1.47E-07	2.17E-08	2.17E-08	1.21E-08	2.13E-07	1.67E-09	2.24E-08	3.39E-09	3.39E-09	1.87E-09	3.27E-08	9.06E-10	1.21E-08	1.51E-09	1.51E-09	7.47E-10	1.68E-08
929	257665.07	4084650.32	1.01E-08	1.35E-07	2.00E-08	2.00E-08	1.11E-08	1.96E-07	1.53E-09	2.05E-08	3.12E-09	3.12E-09	1.71E-09	3.00E-08	8.32E-10	1.11E-08	1.39E-09	1.39E-09	6.86E-10	1.54E-08
930	257640.73	4084651.32	9.32E-09	1.24E-07	1.84E-08	1.84E-08	1.03E-08	1.81E-07	1.41E-09	1.90E-08	2.88E-09	2.88E-09	1.58E-09	2.77E-08	7.68E-10	1.03E-08	1.28E-09	1.28E-09	6.33E-10	1.42E-08
931	257616.4	4084652.32	8.64E-09	1.15E-07	1.71E-08	1.71E-08	9.52E-09	1.68E-07	1.31E-09	1.76E-08	2.67E-09	2.67E-09	1.47E-09	2.57E-08	7.12E-10	9.51E-09	1.19E-09	1.19E-09	5.87E-10	1.32E-08
932	257592.07	4084653.32	8.05E-09	1.07E-07	1.59E-08	1.59E-08	8.87E-09	1.56E-07	1.22E-09	1.64E-08	2.48E-09	2.48E-09	1.37E-09	2.39E-08	6.63E-10	8.86E-09	1.10E-09	1.10E-09	5.47E-10	1.23E-08
933	257567.74	4084654.32	7.53E-09	1.01E-07	1.49E-08	1.49E-08	8.29E-09	1.46E-07	1.14E-09	1.53E-08	2.32E-09	2.32E-09	1.28E-09	2.24E-08	6.20E-10	8.29E-09	1.03E-09	1.03E-09	5.11E-10	1.15E-08
934	257543.41	4084655.32	7.07E-09	9.44E-08	1.40E-08	1.40E-08	7.78E-09	1.37E-07	1.07E-09	1.44E-08	2.18E-09	2.18E-09	1.20E-09	2.10E-08	5.82E-10	7.78E-09	9.70E-10	9.70E-10	4.80E-10	1.08E-08
935	258364.49	4084530.63	3.30E-08	4.40E-07	6.52E-08	6.52E-08	3.63E-08	6.40E-07	5.00E-09	6.71E-08	1.02E-08	1.02E-08	5.59E-09	9.80E-08	2.72E-09	3.63E-08	4.53E-09	4.53E-09	2.24E-09	5.03E-08
936	258386.74	4084538.87	3.48E-08	4.65E-07	6.87E-08	6.87E-08	3.83E-08	6.75E-07	5.28E-09	7.08E-08	1.07E-08	1.07E-08	5.90E-09	1.03E-07	2.87E-09	3.83E-08	4.77E-09	4.77E-09	2.36E-09	5.31E-08
937	258408.98	4084547.1	3.66E-08	4.88E-07	7.23E-08	7.23E-08	4.03E-08	7.10E-07	5.55E-09	7.44E-08	1.13E-08	1.13E-08	6.20E-09	1.09E-07	3.01E-09	4.03E-08	5.02E-09	5.02E-09	2.48E-09	5.58E-08
938	258431.22	4084555.34	3.83E-08	5.12E-07	7.57E-08	7.57E-08	4.22E-08	7.43E-07	5.81E-09	7.79E-08	1.18E-08	1.18E-08	6.50E-09	1.14E-07	3.16E-09	4.22E-08	5.26E-09	5.26E-09	2.60E-09	5.84E-08
939	258453.47	4084563.57	4.00E-08	5.34E-07	7.90E-08	7.90E-08	4.40E-08	7.76E-07	6.06E-09	8.13E-08	1.23E-08	1.23E-08	6.78E-09	1.19E-07	3.29E-09	4.40E-08	5.49E-09	5.49E-09	2.72E-09	6.10E-08
940	258475.71	4084571.81	4.15E-08	5.55E-07	8.21E-08	8.21E-08	4.58E-08	8.06E-07	6.30E-09	8.45E-08	1.28E-08	1.28E-08	7.05E-09	1.23E-07	3.42E-09	4.57E-08	5.70E-09	5.70E-09	2.82E-09	6.34E-08

941	258497.95	4084580.04	4.30E-08	5.74E-07	8.49E-08	8.49E-08	4.73E-08	8.34E-07	6.52E-09	8.74E-08	1.33E-08	1.33E-08	7.29E-09	1.28E-07	3.54E-09	4.73E-08	5.90E-09	5.90E-09	2.92E-09	6.56E-08
942	258520.2	4084588.28	4.42E-08	5.91E-07	8.74E-08	8.74E-08	4.87E-08	8.59E-07	6.71E-09	9.00E-08	1.37E-08	1.37E-08	7.50E-09	1.32E-07	3.65E-09	4.87E-08	6.07E-09	6.07E-09	3.01E-09	6.75E-08
943	258542.44	4084596.52	4.53E-08	6.05E-07	8.95E-08	8.95E-08	4.99E-08	8.79E-07	6.87E-09	9.22E-08	1.40E-08	1.40E-08	7.68E-09	1.35E-07	3.73E-09	4.99E-08	6.22E-09	6.22E-09	3.08E-09	6.91E-08
944	258564.68	4084604.75	4.61E-08	6.16E-07	9.11E-08	9.11E-08	5.08E-08	8.95E-07	6.99E-09	9.38E-08	1.42E-08	1.42E-08	7.82E-09	1.37E-07	3.80E-09	5.07E-08	6.33E-09	6.33E-09	3.13E-09	7.03E-08
945	258586.93	4084612.99	4.66E-08	6.22E-07	9.20E-08	9.20E-08	5.13E-08	9.04E-07	7.07E-09	9.48E-08	1.44E-08	1.44E-08	7.90E-09	1.38E-07	3.84E-09	5.13E-08	6.39E-09	6.39E-09	3.16E-09	7.11E-08
946	258609.17	4084621.22	4.67E-08	6.24E-07	9.23E-08	9.23E-08	5.15E-08	9.06E-07	7.09E-09	9.50E-08	1.44E-08	1.44E-08	7.92E-09	1.39E-07	3.85E-09	5.14E-08	6.41E-09	6.41E-09	3.17E-09	7.13E-08
947	258641.19	4084651.07	4.84E-08	6.47E-07	9.57E-08	9.57E-08	5.34E-08	9.40E-07	7.35E-09	9.85E-08	1.49E-08	1.49E-08	8.22E-09	1.44E-07	3.99E-09	5.33E-08	6.65E-09	6.65E-09	3.29E-09	7.39E-08
948	258650.97	4084672.68	5.00E-08	6.68E-07	9.89E-08	9.89E-08	5.51E-08	9.71E-07	7.59E-09	1.02E-07	1.54E-08	1.54E-08	8.49E-09	1.49E-07	4.12E-09	5.51E-08	6.87E-09	6.87E-09	3.40E-09	7.63E-08
949	258660.74	4084694.29	5.11E-08	6.82E-07	1.01E-07	1.01E-07	5.63E-08	9.91E-07	7.75E-09	1.04E-07	1.58E-08	1.58E-08	8.66E-09	1.52E-07	4.21E-09	5.62E-08	7.01E-09	7.01E-09	3.47E-09	7.79E-08
950	258670.52	4084715.9	5.15E-08	6.88E-07	1.02E-07	1.02E-07	5.67E-08	9.99E-07	7.81E-09	1.05E-07	1.59E-08	1.59E-08	8.73E-09	1.53E-07	4.24E-09	5.67E-08	7.07E-09	7.07E-09	3.50E-09	7.86E-08
951	258680.3	4084737.51	5.13E-08	6.86E-07	1.01E-07	1.01E-07	5.66E-08	9.96E-07	7.79E-09	1.04E-07	1.58E-08	1.58E-08	8.71E-09	1.53E-07	4.23E-09	5.65E-08	7.05E-09	7.05E-09	3.49E-09	7.83E-08
952	258690.07	4084759.12	5.05E-08	6.74E-07	9.98E-08	9.98E-08	5.56E-08	9.80E-07	7.66E-09	1.03E-07	1.56E-08	1.56E-08	8.56E-09	1.50E-07	4.16E-09	5.56E-08	6.93E-09	6.93E-09	3.43E-09	7.70E-08
953	258699.85	4084780.73	4.90E-08	6.54E-07	9.68E-08	9.68E-08	5.40E-08	9.51E-07	7.43E-09	9.97E-08	1.51E-08	1.51E-08	8.31E-09	1.46E-07	4.04E-09	5.39E-08	6.72E-09	6.72E-09	3.33E-09	7.47E-08
954	258709.63	4084802.34	4.69E-08	6.26E-07	9.26E-08	9.26E-08	5.16E-08	9.10E-07	7.11E-09	9.54E-08	1.45E-08	1.45E-08	7.95E-09	1.39E-07	3.86E-09	5.16E-08	6.43E-09	6.43E-09	3.18E-09	7.15E-08
955	258719.4	4084823.95	4.43E-08	5.92E-07	8.75E-08	8.75E-08	4.88E-08	8.60E-07	6.72E-09	9.01E-08	1.37E-08	1.37E-08	7.51E-09	1.32E-07	3.65E-09	4.88E-08	6.08E-09	6.08E-09	3.01E-09	6.76E-08
956	258729.18	4084845.56	4.14E-08	5.53E-07	8.17E-08	8.17E-08	4.56E-08	8.03E-07	6.28E-09	8.42E-08	1.28E-08	1.28E-08	7.02E-09	1.23E-07	3.41E-09	4.55E-08	5.68E-09	5.68E-09	2.81E-09	6.31E-08
957	258738.96	4084867.17	3.83E-08	5.11E-07	7.56E-08	7.56E-08	4.22E-08	7.43E-07	5.81E-09	7.79E-08	1.18E-08	1.18E-08	6.49E-09	1.14E-07	3.15E-09	4.21E-08	5.25E-09	5.25E-09	2.60E-09	5.84E-08
958	258748.73	4084888.78	3.51E-08	4.69E-07	6.94E-08	6.94E-08	3.87E-08	6.82E-07	5.33E-09	7.14E-08	1.08E-08	1.08E-08	5.96E-09	1.04E-07	2.89E-09	3.87E-08	4.82E-09	4.82E-09	2.39E-09	5.36E-08
959	258342.25	4084522.4	3.12E-08	4.16E-07	6.16E-08	6.16E-08	3.43E-08	6.05E-07	4.73E-09	6.34E-08	9.62E-09	9.62E-09	5.29E-09	9.27E-08	2.57E-09	3.43E-08	4.28E-09	4.28E-09	2.12E-09	4.76E-08
960	258317.92	4084523.4	3.05E-08	4.08E-07	6.04E-08	6.04E-08	3.36E-08	5.93E-07	4.64E-09	6.21E-08	9.42E-09	9.42E-09	5.18E-09	9.08E-08	2.52E-09	3.36E-08	4.19E-09	4.19E-09	2.08E-09	4.66E-08
961	258293.59	4084524.4	2.98E-08	3.99E-07	5.90E-08	5.90E-08	3.29E-08	5.79E-07	4.53E-09	6.07E-08	9.21E-09	9.21E-09	5.06E-09	8.87E-08	2.46E-09	3.29E-08	4.10E-09	4.10E-09	2.03E-09	4.55E-08
962	258269.25	4084525.4	2.91E-08	3.88E-07	5.74E-08	5.74E-08	3.20E-08	5.64E-07	4.41E-09	5.91E-08	8.97E-09	8.97E-09	4.93E-09	8.64E-08	2.40E-09	3.20E-08	3.99E-09	3.99E-09	1.98E-09	4.44E-08
963	258244.92	4084526.4	2.82E-08	3.77E-07	5.58E-08	5.58E-08	3.11E-08	5.48E-07	4.28E-09	5.74E-08	8.71E-09	8.71E-09	4.79E-09	8.39E-08	2.33E-09	3.11E-08	3.87E-09	3.87E-09	1.92E-09	4.31E-08
964	258220.59	4084527.4	2.73E-08	3.65E-07	5.40E-08	5.40E-08	3.01E-08	5.30E-07	4.15E-09	5.56E-08	8.43E-09	8.43E-09	4.63E-09	8.12E-08	2.25E-09	3.01E-08	3.75E-09	3.75E-09	1.86E-09	4.17E-08
965	258196.26	4084528.4	2.64E-08	3.52E-07	5.21E-08	5.21E-08	2.90E-08	5.12E-07	4.00E-09	5.36E-08	8.13E-09	8.13E-09	4.47E-09	7.84E-08	2.17E-09	2.90E-08	3.62E-09	3.62E-09	1.79E-09	4.02E-08
966	258171.93	4084529.4	2.54E-08	3.39E-07	5.01E-08	5.01E-08	2.79E-08	4.92E-07	3.85E-09	5.16E-08	7.82E-09	7.82E-09	4.30E-09	7.54E-08	2.09E-09	2.79E-08	3.48E-09	3.48E-09	1.72E-09	3.87E-08
967	258147.59	4084530.4	2.43E-08	3.25E-07	4.80E-08	4.80E-08	2.68E-08	4.72E-07	3.69E-09	4.95E-08	7.50E-09	7.50E-09	4.12E-09	7.23E-08	2.00E-09	2.68E-08	3.34E-09	3.34E-09	1.65E-09	3.71E-08
968	258123.26	4084531.4	2.32E-08	3.10E-07	4.59E-08	4.59E-08	2.56E-08	4.51E-07	3.52E-09	4.72E-08	7.16E-09	7.16E-09	3.94E-09	6.90E-08	1.91E-09	2.56E-08	3.19E-09	3.19E-09	1.58E-09	3.54E-08
969	258098.93	4084532.4	2.21E-08	2.95E-07	4.37E-08	4.37E-08	2.43E-08	4.29E-07	3.35E-09	4.50E-08	6.82E-09	6.82E-09	3.75E-09	6.57E-08	1.82E-09	2.43E-08	3.03E-09	3.03E-09	1.50E-09	3.37E-08
970	258074.6	4084533.4	2.10E-08	2.80E-07	4.14E-08	4.14E-08	2.31E-08	4.07E-07	3.18E-09	4.26E-08	6.47E-09	6.47E-09	3.55E-09	6.23E-08	1.73E-09	2.31E-08	2.88E-09	2.88E-09	1.42E-09	3.20E-08
971	258050.27	4084534.4	1.98E-08	2.64E-07	3.91E-08	3.91E-08	2.18E-08	3.84E-07	3.01E-09	4.03E-08	6.11E-09	6.11E-09	3.36E-09	5.89E-08	1.63E-09	2.18E-08	2.72E-09	2.72E-09	1.35E-09	3.02E-08
972	258025.94	4084535.4	1.86E-08	2.49E-07	3.68E-08	3.68E-08	2.05E-08	3.62E-07	2.83E-09	3.79E-08	5.75E-09	5.75E-09	3.16E-09	5.54E-08	1.54E-09	2.05E-08	2.56E-09	2.56E-09	1.27E-09	2.84E-08
973	258001.6	4084536.4	1.75E-08	2.34E-07	3.45E-08	3.45E-08	1.93E-08	3.39E-07	2.65E-09	3.56E-08	5.39E-09	5.39E-09	2.97E-09	5.20E-08	1.44E-09	1.92E-08	2.40E-09	2.40E-09	1.19E-09	2.67E-08
974	257977.27	4084537.4	1.63E-08	2.18E-07	3.23E-08	3.23E-08	1.80E-08	3.17E-07	2.48E-09	3.32E-08	5.04E-09	5.04E-09	2.77E-09	4.86E-08	1.35E-09	1.80E-08	2.24E-09	2.24E-09	1.11E-09	2.49E-08
975	257952.94	4084538.4	1.52E-08	2.03E-07	3.01E-08	3.01E-08	1.68E-08	2.96E-07	2.31E-09	3.10E-08	4.70E-09	4.70E-09	2.58E-09	4.53E-08	1.25E-09	1.68E-08	2.09E-09	2.09E-09	1.03E-09	2.32E-08
976	257928.61	4084539.4	1.42E-08	1.89E-07	2.80E-08	2.80E-08	1.56E-08	2.75E-07	2.15E-09	2.88E-08	4.37E-09	4.37E-09	2.40E-09	4.21E-08	1.17E-09	1.56E-08	1.94E-09	1.94E-09	9.62E-10	2.16E-08
977	257904.28	4084540.4	1.31E-08	1.75E-07	2.59E-08	2.59E-08	1.45E-08	2.55E-07	1.99E-09	2.67E-08	4.05E-09	4.05E-09	2.23E-09	3.90E-08	1.08E-09	1.45E-08	1.80E-09	1.80E-09	8.92E-10	2.00E-08
978	257879.94	4084541.4	1.22E-08	1.62E-07	2.40E-08	2.40E-08	1.34E-08	2.36E-07	1.85E-09	2.47E-08	3.75E-09	3.75E-09	2.06E-09	3.62E-08	1.00E-09	1.34E-08	1.67E-09	1.67E-09	8.26E-10	1.86E-08
979	257855.61	4084542.4	1.13E-08	1.50E-07	2.23E-08	2.23E-08	1.24E-08	2.19E-07	1.71E-09	2.29E-08	3.47E-09	3.47E-09	1.91E-09	3.35E-08	9.28E-10	1.24E-08	1.55E-09	1.55E-09	7.65E-10	1.72E-08
980	257831.28	4084543.4	1.04E-08	1.39E-07	2.06E-08	2.06E-08	1.15E-08	2.03E-07	1.58E-09	2.12E-08	3.22E-09	3.22E-09	1.77E-09	3.10E-08	8.60E-10	1.15E-08	1.43E-09	1.43E-09	7.09E-10	1.59E-08
981	257806.95	4084544.4	9.68E-09	1.29E-07	1.91E-08	1.91E-08	1.07E-08	1.88E-07	1.47E-09	1.97E-08	2.99E-09	2.99E-09	1.64E-09	2.88E-08	7.98E-10	1.07E-08	1.33E-09	1.33E-09	6.58E-10	1.48E-08
982	257782.62	4084545.4	8.99E-09	1.20E-07	1.78E-08	1.78E-08	9.91E-09	1.75E-07	1.36E-09	1.83E-08	2.77E-09	2.77E-09	1.53E-09	2.67E-08	7.41E-10	9.90E-09	1.23E-09	1.23E-09	6.11E-10	1.37E-08
983	257758.29	4084546.4	8.37E-09	1.12E-07	1.65E-08	1.65E-08	9.22E-09	1.63E-07	1.27E-09	1.70E-08	2.58E-09	2.58E-09	1.42E-09	2.49E-08	6.90E-10	9.22E-09	1.15E-09	1.15E-09	5.69E-10	1.28E-08
984	257733.95	4084547.41	7.81E-09	1.04E-07	1.54E-08	1.54E-08	8.61E-09	1.52E-07	1.19E-09	1.59E-08	2.41E-09	2.41E-09	1.33E-09	2.32E-08	6.44E-10	8.60E-09	1.07E-09	1.07E-09	5.31E-10	1.19E-08
985	257709.62	4084548.41	7.32E-09	9.77E-08	1.45E-08	1.45E-08	8.06E-09	1.42E-07	1.11E-09	1.49E-08	2.26E-09	2.26E-09	1.24E-09	2.18E-08	6.03E-10	8.05E-09	1.00E-09	1.00E-09	4.97E-10	1.12E-08
986	257685.29	4084549.41	6.87E-09	9.18E-08	1.36E-08	1.36E-08	7.57E-09	1.33E-07	1.04E-09	1.40E-08	2.12E-09	2.12E-09	1.17E-09	2.04E-08	5.66E-10	7.56E-09	9.43E-10	9.43E-10	4.67E-10	1.05E-08
987	257660.96	4084550.41	6.47E-09	8.64E-08	1.28E-08	1.28E-08	7.13E-09	1.26E-07	9.82E-10	1.32E-08	2.00E-09	2.00E-09	1.10E-09	1.92E-08	5.33E-10	7.12E-09	8.88E-10	8.88E-10	4.40E-10	9.87E-09
988	257636.63	4084551.41	6.11E-09	8.16E-08	1.21E-08	1.21E-08	6.73E-09	1.19E-07	9.27E-10	1.24E-08	1.89E-09	1.89E-09	1.04E-09	1.82E-08	5.04E-10	6.73E-09	8.39E-10	8.39E-10	4.15E-10	9.32E-09
989	257612.29	4084552.41	5.79E-09	7.73E-08	1.14E-08	1.14E-08	6.38E-09	1.12E-07	8.78E-10	1.18E-08	1.79E-09	1.79E-09	9.82E-10	1.72E-08	4.77E-10	6.37E-09	7.94E-10	7.94E-10	3.93E-10	8.83E-09
990	257587.96	4084553.41	5.49E-09	7.34E-08	1.09E-08	1.09E-08	6.05E-09	1.07E-07	8.34E-10	1.12E-08	1.69E-09	1.69E-09	9.32E-10	1.63E-08	4.53E-10	6.05E-09	7.54E-10	7.54E-10	3.73E-10	8.38E-09
991	257563.63	4084554.41	5.22E-09	6.98E-08	1.03E-08	1.03E-08	5.76E-09	1.01E-07	7.93E-10	1.06E-08	1.61E-09	1.61E-09	8.86E-10	1.55E-08	4.31E-10	5.75E-09	7.17E-10	7.17E-10	3.55E-10	7.97E-09
992	257539.3	4084555.41	4.98E-09	6.65E-08	9.83E-09	9.83E-09	5.48E-09	9.66E-08	7.55E-10	1.01E-08	1.54E-09	1.54E-09	8.44E-10	1.48E-08	4.10E-10	5.48E-09	6.83E-10	6.83E-10	3.38E-10	7.59E-09
993	258360.73	4084430.85	2.14E-08	2.86E-07	4.23E-08	4.23E-08	2.36E-08	4.16E-07	3.25E-09	4.36E-08	6.61E-09	6.61E-09	3.63E-09	6.37E-08	1.76E-09	2.36E-08	2.94E-09	2.94E-09	1.45E-09	3.27E-08
994	258383.32	4084439.21	2.28E-08	3.04E-07	4.50E-08	4.50E-08	2.51E-08	4.42E-07	3.45E-09	4.63E-08	7.02E-09	7.02E-09	3.86E-09	6.77E-08	1.88E-09	2.51E-08	3.13E-09	3.13E-09	1.55E-09	3.47E-08
995	258405.91	4084447.57	2.41E-08	3.22E-07	4.77E-08	4.77E-08	2.66E-08	4.68E-07	3.66E-09	4.91E-08	7.44E-09	7.44E-09	4.09E-09	7.17E-08	1.99E-09	2.66E-08	3.31E-09	3.31E-09	1.64E-09	3.68E-08
996	258428.51	4084455.94	2.55E-08	3.40E-07	5.03E-08	5.03E-08	2.81E-08	4.94E-07	3.86E-09	5.18E-08	7.86E-09	7.86E-09	4.32E-09	7.57E-08	2.10E-09	2.80E-08	3.50E-09	3.50E-09	1.73E-09	3.89E-08
997	258451.1	4084464.3	2.68E-08	3.58E-07	5.29E-08	5.29E-08	2.95E-08	5.20E-07	4.06E-09	5.45E-08	8.26E-09	8.26E-09	4.54E-09	7.96E-08	2.21E-09	2.95E-08	3.67E-09	3.67E-09	1.82E-09	4.08E-08
998	258473.69	4084472.67	2.81E-08	3.75E-07	5.54E-08	5.54E-08	3.09E-08	5.45E-07	4.26E-09	5.71E-08	8.66E-09	8.66E-09	4.76E-09	8.34E-08	2.31E-09	3.09E-08	3.85E-09	3.85E-09	1.91E-09	4.28E-08
999	258496.28	4084481.03	2.93E-08	3.91E-07	5.79E-08	5.79E-08	3.23E-08	5.69E-07	4.45E-09	5.96E-08	9.04E-09	9.04E-09	4.97E-09	8.71E-08	2.42E-09	3.23E-08	4.02E-09	4.02E-09	1.99E-09	4.47E-08
1000	258518.87	4084489.39	3.05E-08	4.07E-07	6.03E-08	6.03E-08	3.36E-08	5.92E-07	4.63E-09	6.20E-08	9.41E-09	9.41E-09	5.17E-09	9.07E-08	2.51E-09	3.36E-08	4.19E-09	4.19E-09	2.07E-09	4.65E-08
1001	258541.46	4084497.76	3.16E-08	4.22E-07	6.24E-08	6.24E-08	3.48E-08	6.13E-07	4.80E-09	6.43E-08	9.75E-09	9.75E-09	5.36E-09	9.40E-08	2.60E-09	3.48E-08	4.34E-09	4.34E-09	2.15E-09	4.82E-08
1002	258564.05	4084506.12	3.26E-08	4.35E-07	6.44E-08	6.44E-08	3.59E-08	6.33E-07	4.95E-09	6.63E-08	1.01E-08	1.01E-08	5.53E-09	9.69E-08	2.69E-09	3.59E-08	4.48E-09	4.48E-09	2.22E-09	4.97E-08
1003	258586.64	4084514.49	3.35E-08	4.47E-07	6.62E-08	6.62E-08	3.69E-08	6.50E-07	5.08E-09	6.81E-08	1.03E-08	1.03E-08	5.68E-09	9.95E-08	2.76E-09	3.69E-08	4.60E-09	4.60E-09	2.27E-09	5.11E-08
1004	258609.23	4084522.85	3.42E-08	4.57E-07	6.76E-08	6.76E-08	3.77E-08	6.64E-07	5.19E-09	6.96E-08	1.06E-08	1.06E-08	5.80E-09	1.02E-07	2.82E-09	3.77E-08	4.70E-09	4.70E-09	2.32E-09	5.22E-08
1005	258631.82	4084531.21	3.47E-08	4.64E-07	6.87E-08	6.87E-08	3.83E-08	6.74E-07	5.27E-09	7.07E-08	1.07E-08	1.07E-08	5.89E-09	1.03E-07	2.86E-09	3.83E-08	4.77E-09	4.77E-09	2.36E-09	5.30E-08
1006	258654.41	4084539.58	3.51E-08	4.69E-07	6.93E-08	6.93E-08	3.87E-08	6.81E-07	5.32E-09	7.14E-08	1.08E-08	1.08E-08	5.95E-09	1.04E-07	2.89E-09	3.86E-08	4.82E-09	4.82E-09	2.38E-09	5.35E-08
1007	258677.01	4084547.94	3.52E-08	4.70E-07	6.95E-08	6.95E-08	3.88E-08	6.83E-07	5.34E-09	7.16E-08	1.09E-08	1.09E-08	5.97E-09	1.05E-07	2.90E-09	3.87E-08	4.83E-09	4.83E-09	2.39E-09	5.37E-08
1008	258709.53	4084578.25	3.63E-08	4.85E-07	7.17E-08	7.17E-08	4.00E-08	7.05E-07	5.51E-09	7.39E-08	1.12E-08	1.12E-08	6.16E-09	1.08E-07	2.99E-09	4.00E-08	4.98E-09	4.98E-09	2.47E-09	5.54E-08
1009	258719.46	4084600.2	3.74E-08	5.00E-07	7.39E-08	7.39E-08	4.12E-08	7.26E-07	5.68E-09	7.61E-08	1.15E-08	1.15E-08	6.35E-09	1.11E-07	3.08E-09	4.12E-08	5.14E-09	5.14E-09	2.54E-09	5.71E-08
1010	258729.38	4084622.15	3.83E-08	5.11E-07	7.56E-08	7.56E-08	4.21E-08	7.43E-07	5.81E-09	7.78E-08	1.18E-08	1.18E-08	6.49E-09	1.14E-07	3.15E-09	4.21E-08	5.25E-09	5.25E-09	2.60E-09	5.84E-08
1011	258739.31	4084644.1	3.88E-08	5.18E-07	7.66E-08	7.66E-08	4.27E-08	7.52E-07	5.88E-09	7.89E-08	1.20E-08	1.20E-08	6.57E-09	1.15E-07	3.19E-09	4.27E-08	5.32E-09	5.32E-09	2.63E-09	5.91E-08
1012	258749.24	4084666.05	3.89E-08	5.19E-07	7.68E-08	7.68E-08	4.28E-08	7.55E-07	5.90E-09	7.91E-08	1.20E-08	1.20E-08	6.60E-09	1.16E-07	3.21E-09	4.28E-08	5.34E-09	5.34E-09	2.64E-09	5.93E-08
1013	258759.17	4084687.99	3.86E-08	5.16E-07	7.63E-08	7.63E-08	4.26E-08	7.50E-07	5.86E-09	7.86E-08	1.19E-08	1.19E-08	6.55E-09	1.15E-07	3.18E-09	4.25E-08	5.30E-09	5.30E-09	2.62E-09	5.89E-08
1014	258769.1	4084709.94	3.79E-08	5.07E-07	7.50E-08	7.50E-08	4.18E-08	7.37E-07	5.76E-09	7.72E-08	1.17E-08	1.17E-08	6.44E-09	1.13E-07	3.13E-09	4.18E-08	5.21E-09	5.21E-09	2.58E-09	5.79E-08
1015	258779.03	4084731.89	3.69E-08	4.93E-07	7.29E-08	7.29E-08	4.06E-08	7.16E-07	5.60E-09	7.51E-08	1.14E-08	1.14E-08	6.26E-09	1.10E-07	3.04E-09	4.06E-08	5.06E-09	5.06E-09	2.51E-09	5.63E-08
1016	258788.96	4084753.84	3.55E-08	4.74E-07	7.01E-08	7.01E-08	3.91E-08	6.89E-07	5.39E-09	7.22E-08	1.10E-08	1.10E-08	6.02E-09	1.06E-07	2.93E-09	3.91E-08	4.87E-09	4.87E-09	2.41E-09	5.42E-08
1017	258798.89	4084775.79	3.38E-08	4.52E-07	6.68E-08	6.68E-08	3.72E-08	6.56E-07	5.13E-09	6.88E-08	1.04E-08	1.04E-08	5.73E-09	1.01E-07	2.79E-09	3.72E-08	4.64E-09	4.64E-09	2.30E-09	5.16E-08
1018	258808.82	4084797.73	3.19E-08	4.26E-07	6.31E-08	6.31E-08	3.52E-08	6.19E-07	4.84E-09	6.49E-08	9.85E-09	9.85E-09	5.41E-09	9.49E-08	2.63E-09	3.51E-08	4.38E-09	4.38E-09	2.17E-09	4.87E-08
1019	258818.75	4084819.68	2.99E-08	3.99E-07	5.90E-08	5.90E-08	3.29E-08	5.80E-07	4.53E-09	6.08E-08	9.22E-09	9.22E-09	5.07E-09	8.88E-08	2.46E-09	3.29E-08	4.10E-09	4.10E-09	2.03E-09	4.56E-08
1020	258828.68	4084841.63	2.78E-08	3.71E-07	5.49E-08	5.49E-08	3.06E-08	5.39E-07	4.22E-09	5.66E-08	8.58E-09	8.58E-09	4.71E-09	8.26E-08	2.29E-09	3.06E-08	3.82E-09	3.82E-09	1.89E-09	4.24E-08
1021	258838.61	4084863.58	2.57E-08	3.44E-07	5.08E-08	5.08E-08	2.83E-08	4.99E-07	3.90E-09	5.24E-08	7.94E-09	7.94E-09	4.36E-09	7.65E-08	2.12E-09	2.83E-08	3.53E-09	3.53E-09	1.75E-09	3.93E-08
1022	258848.54	4084885.53	2.37E-08	3.17E-07	4.69E-08	4.69E-08	2.61E-08	4.61E-07	3.60E-09	4.83E-08	7.32E-09	7.32E-09	4.03E-09	7.06E-08	1.96E-09	2.61E-08	3.26E-09	3.26E-09	1.61E-09	3.62E-08
1023	258338.14	4084422.48	2.01E-08	2.68E-07	3.97E-08	3.97E-08	2.21E-08	3.90E-07	3.05E-09	4.08E-08	6.19E-09	6.19E-09	3.40E-09	5.97E-08	1.65E-09	2.21E-08	2.76E-09	2.76E-09	1.36E-09	3.06E-08
1024	258313.81	4084423.48	1.95E-08	2.60E-07	3.85E-08	3.85E-08	2.15E-08	3.78E-07	2.96E-09	3.96E-08	6.01E-09	6.01E-09	3.30E-09	5.79E-08	1.61E-09	2.14E-08	2.67E-09	2.67E-09	1.32E-09	2.97E-08
1025	258289.48	4084424.48	1.88E-08	2.52E-07	3.72E-08	3.72E-08	2.08E-08	3.66E-07	2.86E-09	3.84E-08	5.82E-09	5.82E-09	3.20E-09	5.60E-08	1.55E-09	2.08E-08	2.59E-09	2.59E-09	1.28E-09	2.88E-08
1026	258265.15	4084425.48	1.82E-08	2.43E-07	3.59E-08	3.59E-08	2.00E-08	3.53E-07	2.76E-09	3.70E-08	5.61E-09	5.61E-09	3.09E-09	5.41E-08	1.50E-09	2.00E-08	2.50E-09	2.50E-09	1.24E-09	2.78E-08
1027	258240.81	4084426.48	1.75E-08	2.34E-07	3.46E-08	3.46E-08	1.93E-08	3.40E-07	2.66E-09	3.56E-08	5.40E-09	5.40E-09	2.97E-09	5.20E-08	1.44E-09	1.93E-08	2.40E-09	2.40E-09	1.19E-09	2.67E-08
1028	258216.48	4084427.48	1.68E-08	2.24E-07	3.32E-08	3.32E-08	1.85E-08	3.26E-07	2.55E-09	3.41E-08	5.18E-09	5.18E-09	2.85E-09	4.99E-08	1.38E-09	1.85E-08	2.30E-09	2.30E-09	1.14E-09	2.56E-08
1029	258192.15	4084428.48	1.60E-08	2.14E-07	3.17E-08	3.17E-08	1.77E-08	3.11E-07	2.43E-09	3.26E-08	4.95E-09	4.95E-09	2.72E-09	4.77E-08	1.32E-09	1.77E-08	2.20E-09	2.20E-09	1.09E-09	2.45E-08
1030	258167.82	4084429.48	1.53E-08	2.04E-07	3.02E-08	3.02E-08	1.68E-08	2.97E-07	2.32E-09	3.11E-08	4.72E-09	4.72E-09	2.59E-09	4.55E-08	1.26E-09	1.68E-08	2.10E-09	2.10E-09	1.04E-09	2.33E-08
1031	258143.49	4084430.48	1.45E-08	1.94E-07	2.87E-08	2.87E-08	1.60E-08	2.82E-07	2.21E-09	2.96E-08	4.48E-09	4.48E-09	2.47E-09	4.32E-08	1.20E-09	1.60E-08	2.00E-09	2.00E-09	9.88E-10	2.22E-08
1032	258119.16	4084431.48	1.38E-08	1.84E-07	2.72E-08	2.72E-08	1.52E-08	2.67E-07	2.09E-09	2.80E-08	4.25E-09	4.25E-09	2.34E-09	4.10E-08	1.14E-09	1.52E-08	1.89E-09	1.89E-09	9.36E-10	2.10E-08
1033	258094.82	4084432.49	1.30E-08	1.74E-07	2.58E-08	2.58E-08	1.44E-08	2.53E-07	1.98E-09	2.65E-08	4.02E-09	4.02E-09	2.21E-09	3.87E-08	1.07E-09	1.43E-08	1.79E-09	1.79E-09	8.86E-10	1.99E-08
1034	258070.49	4084433.49	1.23E-08	1.64E-07	2.43E-08	2.43E-08	1.36E-08	2.39E-07	1.87E-09	2.50E-08	3.80E-09	3.80E-09	2.09E-09	3.66E-08	1.01E-09	1.35E-08	1.69E-09	1.69E-09	8.36E-10	1.88E-08
1035	258046.16	4084434.49	1.16E-08	1.55E-07	2.29E-08	2.29E-08	1.28E-08	2.25E-07	1.76E-09	2.36E-08	3.57E-09	3.57E-09	1.97E-09	3.44E-08	9.55E-10	1.28E-08	1.59E-09	1.59E-09	7.87E-10	1.77E-08
1036	258021.83	4084435.49	1.09E-08	1.46E-07	2.15E-08	2.15E-08	1.20E-08	2.11E-07	1.65E-09	2.22E-08	3.36E-09	3.36E-09	1.85E-09	3.24E-08	8.98E-10	1.20E-08	1.50E-09	1.50E-09	7.40E-10	1.66E-08
1037	257997.5	4084436.49	1.02E-08	1.37E-07	2.02E-08	2.02E-08	1.13E-08	1.99E-07	1.55E-09	2.08E-08	3.16E-09	3.16E-09	1.74E-09	3.04E-08	8.43E-10	1.13E-08	1.40E-09	1.40E-09	6.95E-10	1.56E-08
1038	257973.16	4084437.49	9.60E-09	1.28E-07	1.90E-08	1.90E-08	1.06E-08	1.86E-07	1.46E-09	1.95E-08	2.96E-09	2.96E-09	1.63E-09	2.86E-08	7.92E-10	1.06E-08	1.32E-09	1.32E-09	6.53E-10	1.47E-08
1039	257948.83	4084438.49	9.01E-09	1.20E-07	1.78E-08	1.78E-08	9.92E-09	1.75E-07	1.37E-09	1.83E-08	2.78E-09	2.78E-09	1.53E-09	2.68E-08	7.42E-10	9.92E-09	1.24E-09	1.24E-09	6.12E-10	1.37E-08
1040	257924.5	4084439.49	8.45E-09	1.13E-07	1.67E-08	1.67E-08	9.31E-09	1.64E-07	1.28E-09	1.72E-08	2.61E-09	2.61E-09	1.43E-09	2.51E-08	6.96E-10	9.30E-09	1.16E-09	1.16E-09	5.74E-10	1.29E-08
1041	257900.17	4084440.49	7.92E-09	1.06E-07	1.57E-08	1.57E-08	8.73E-09	1.54E-07	1.20E-09	1.61E-08	2.44E-09	2.44E-09	1.34E-09	2.36E-08	6.53E-10	8.72E-09	1.09E-09	1.09E-09	5.38E-10	1.21E-08
1042	257875.84	4084441.49	7.43E-09	9.93E-08	1.47E-08	1.47E-08	8.19E-09	1.44E-07	1.13E-09	1.51E-08	2.29E-09	2.29E-09	1.26E-09	2.21E-08	6.13E-10	8.19E-09	1.02E-09	1.02E-09	5.05E-10	1.13E-08
1043	257851.51	4084442.49	6.98E-09	9.33E-08	1.38E-08	1.38E-08	7.69E-09	1.36E-07	1.06E-09	1.42E-08	2.15E-09	2.15E-09	1.18E-09	2.08E-08	5.76E-10	7.69E-09	9.59E-10	9.59E-10	4.74E-10	1.07E-08
1044	257827.17	4084443.49	6.56E-09	8.77E-08	1.30E-08	1.30E-08	7.23E-09	1.27E-07	9.96E-10	1.34E-08	2.03E-09	2.03E-09	1.11E-09	1.95E-08	5.41E-10	7.23E-09	9.01E-10	9.01E-10	4.46E-10	1.00E-08
1045	257802.84	4084444.49	6.18E-09	8.26E-08	1.22E-08	1.22E-08	6.81E-09	1.20E-07	9.38E-10	1.26E-08	1.91E-09	1.91E-09	1.05E-09	1.84E-08	5.10E-10	6.81E-09	8.49E-10	8.49E-10	4.20E-10	9.43E-09
1046	257778.51	4084445.49	5.83E-09	7.79E-08	1.15E-08	1.15E-08	6.43E-09	1.13E-07	8.85E-10	1.19E-08	1.80E-09	1.80E-09	9.89E-10	1.73E-08	4.81E-10	6.42E-09	8.01E-10	8.01E-10	3.96E-10	8.90E-09
1047	257754.18	4084446.49	5.52E-09	7.37E-08	1.09E-08	1.09E-08	6.08E-09	1.07E-07	8.37E-10	1.12E-08	1.70E-09	1.70E-09	9.36E-10	1.64E-08	4.55E-10	6.07E-09	7.57E-10	7.57E-10	3.75E-10	8.42E-09
1048	257729.85	4084447.49	5.23E-09	6.99E-08	1.03E-08	1.03E-08	5.77E-09	1.02E-07	7.94E-10	1.06E-08	1.61E-09	1.61E-09	8.88E-10	1.56E-08	4.31E-10	5.76E-09	7.18E-10	7.18E-10	3.56E-10	7.99E-09
1049	257705.51	4084448.49	4.98E-09	6.65E-08	9.83E-09	9.83E-09	5.48E-09	9.66E-08	7.55E-10	1.01E-08	1.54E-09	1.54E-09	8.44E-10	1.48E-08	4.10E-10	5.48E-09	6.83E-10	6.83E-10	3.38E-10	7.59E-09
1050	257681.18	4084449.49	4.75E-09	6.34E-08	9.38E-09	9.38E-09	5.23E-09	9.21E-08	7.20E-10	9.66E-09	1.46E-09	1.46E-09	8.05E-10	1.41E-08	3.91E-10	5.23E-09	6.51E-10	6.51E-10	3.22E-10	7.24E-09
1051	257656.85	4084450.49	4.54E-09	6.06E-08	8.97E-09	8.97E-09	5.00E-09	8.81E-08	6.89E-10	9.23E-09	1.40E-09	1.40E-09	7.70E-10	1.35E-08	3.74E-10	5.00E-09	6.23E-10	6.23E-10	3.08E-10	6.93E-09
1052	257632.52	4084451.49	4.35E-09	5.81E-08	8.59E-09	8.59E-09	4.79E-09	8.44E-08	6.60E-10	8.85E-09	1.34E-09	1.34E-09	7.38E-10	1.29E-08	3.58E-10	4.79E-09	5.97E-10	5.97E-10	2.96E-10	6.64E-09
1053	257608.19	4084452.49	4.18E-09	5.58E-08	8.25E-09	8.25E-09	4.60E-09	8.11E-08	6.34E-10	8.50E-09	1.29E-09	1.29E-09	7.09E-10	1.24E-08	3.44E-10	4.60E-09	5.73E-10	5.73E-10	2.84E-10	6.37E-09
1054	257583.86	4084453.49	4.02E-09	5.37E-08	7.94E-09	7.94E-09	4.43E-09	7.80E-08	6.10E-10	8.18E-09	1.24E-09	1.24E-09	6.82E-10	1.19E-08	3.31E-10	4.42E-09	5.52E-10	5.52E-10	2.73E-10	6.13E-09
1055	257559.52	4084454.49	3.87E-09	5.17E-08	7.65E-09	7.65E-09	4.26E-09	7.51E-08	5.87E-10	7.87E-09	1.19E-09	1.19E-09	6.56E-10	1.15E-08	3.19E-10	4.26E-09	5.31E-10	5.31E-10	2.63E-10	5.90E-09
1056	257535.19	4084455.49	3.73E-09	4.98E-08	7.37E-09	7.37E-09	4.11E-09	7.24E-08	5.66E-10	7.59E-09	1.15E-09	1.15E-09	6.33E-10	1.11E-08	3.07E-10	4.11E-09	5.12E-10	5.12E-10	2.53E-10	5.69E-09
1057	258356.86	4084331.02	1.42E-08	1.90E-07	2.81E-08	2.81E-08	1.56E-08	2.76E-07	2.16E-09	2.89E-08	4.38E-09	4.38E-09	2.41E-09	4.22E-08	1.17E-09	1.56E-08	1.95E-09	1.95E-09	9.65E-10	2.17E-08
1058	258379.69	4084339.47	1.52E-08	2.03E-07	3.00E-08	3.00E-08	1.67E-08	2.95E-07	2.30E-09	3.09E-08	4.69E-09	4.69E-09	2.58E-09	4.52E-08	1.25E-09	1.67E-08	2.08E-09	2.08E-09	1.03E-09	2.32E-08

1059	258402.52	4084347.92	1.62E-08	2.16E-07	3.20E-08	3.20E-08	1.78E-08	3.14E-07	2.46E-09	3.29E-08	5.00E-09	5.00E-09	2.75E-09	4.81E-08	1.33E-09	1.78E-08	2.22E-09	2.22E-09	1.10E-09	2.47E-08
1060	258425.35	4084356.37	1.72E-08	2.30E-07	3.40E-08	3.40E-08	1.90E-08	3.34E-07	2.61E-09	3.50E-08	5.31E-09	5.31E-09	2.92E-09	5.12E-08	1.42E-09	1.89E-08	2.36E-09	2.36E-09	1.17E-09	2.63E-08
1061	258448.18	4084364.83	1.82E-08	2.44E-07	3.60E-08	3.60E-08	2.01E-08	3.54E-07	2.77E-09	3.71E-08	5.63E-09	5.63E-09	3.09E-09	5.42E-08	1.50E-09	2.01E-08	2.50E-09	2.50E-09	1.24E-09	2.78E-08
1062	258471.01	4084373.28	1.93E-08	2.57E-07	3.81E-08	3.81E-08	2.12E-08	3.74E-07	2.92E-09	3.92E-08	5.94E-09	5.94E-09	3.27E-09	5.73E-08	1.59E-09	2.12E-08	2.64E-09	2.64E-09	1.31E-09	2.94E-08
1063	258493.84	4084381.73	2.03E-08	2.71E-07	4.01E-08	4.01E-08	2.23E-08	3.93E-07	3.08E-09	4.12E-08	6.25E-09	6.25E-09	3.44E-09	6.03E-08	1.67E-09	2.23E-08	2.78E-09	2.78E-09	1.38E-09	3.09E-08
1064	258516.66	4084390.18	2.13E-08	2.84E-07	4.20E-08	4.20E-08	2.34E-08	4.13E-07	3.23E-09	4.33E-08	6.56E-09	6.56E-09	3.61E-09	6.32E-08	1.75E-09	2.34E-08	2.92E-09	2.92E-09	1.44E-09	3.24E-08
1065	258539.49	4084398.63	2.22E-08	2.97E-07	4.39E-08	4.39E-08	2.45E-08	4.32E-07	3.37E-09	4.52E-08	6.86E-09	6.86E-09	3.77E-09	6.61E-08	1.83E-09	2.45E-08	3.05E-09	3.05E-09	1.51E-09	3.39E-08
1066	258562.32	4084407.09	2.32E-08	3.09E-07	4.58E-08	4.58E-08	2.55E-08	4.50E-07	3.52E-09	4.71E-08	7.15E-09	7.15E-09	3.93E-09	6.89E-08	1.91E-09	2.55E-08	3.18E-09	3.18E-09	1.57E-09	3.53E-08
1067	258585.15	4084415.54	2.40E-08	3.21E-07	4.75E-08	4.75E-08	2.65E-08	4.67E-07	3.65E-09	4.89E-08	7.42E-09	7.42E-09	4.08E-09	7.15E-08	1.98E-09	2.65E-08	3.30E-09	3.30E-09	1.63E-09	3.67E-08
1068	258607.98	4084423.99	2.49E-08	3.32E-07	4.91E-08	4.91E-08	2.74E-08	4.82E-07	3.77E-09	5.06E-08	7.67E-09	7.67E-09	4.22E-09	7.39E-08	2.05E-09	2.74E-08	3.41E-09	3.41E-09	1.69E-09	3.79E-08
1069	258630.81	4084432.44	2.56E-08	3.42E-07	5.06E-08	5.06E-08	2.82E-08	4.97E-07	3.88E-09	5.21E-08	7.89E-09	7.89E-09	4.34E-09	7.61E-08	2.11E-09	2.82E-08	3.51E-09	3.51E-09	1.74E-09	3.90E-08
1070	258653.64	4084440.9	2.62E-08	3.50E-07	5.18E-08	5.18E-08	2.89E-08	5.09E-07	3.98E-09	5.34E-08	8.09E-09	8.09E-09	4.45E-09	7.80E-08	2.16E-09	2.89E-08	3.60E-09	3.60E-09	1.78E-09	4.00E-08
1071	258676.47	4084449.35	2.68E-08	3.58E-07	5.29E-08	5.29E-08	2.95E-08	5.20E-07	4.06E-09	5.45E-08	8.26E-09	8.26E-09	4.54E-09	7.96E-08	2.21E-09	2.95E-08	3.67E-09	3.67E-09	1.82E-09	4.08E-08
1072	258699.29	4084457.8	2.72E-08	3.63E-07	5.37E-08	5.37E-08	2.99E-08	5.28E-07	4.12E-09	5.53E-08	8.39E-09	8.39E-09	4.61E-09	8.08E-08	2.24E-09	2.99E-08	3.73E-09	3.73E-09	1.85E-09	4.15E-08
1073	258722.12	4084466.25	2.74E-08	3.66E-07	5.42E-08	5.42E-08	3.02E-08	5.32E-07	4.16E-09	5.58E-08	8.46E-09	8.46E-09	4.65E-09	8.15E-08	2.26E-09	3.02E-08	3.76E-09	3.76E-09	1.86E-09	4.18E-08
1074	258744.95	4084474.7	2.75E-08	3.67E-07	5.43E-08	5.43E-08	3.03E-08	5.33E-07	4.17E-09	5.59E-08	8.48E-09	8.48E-09	4.66E-09	8.17E-08	2.27E-09	3.03E-08	3.77E-09	3.77E-09	1.87E-09	4.19E-08
1075	258777.81	4084505.33	2.84E-08	3.80E-07	5.62E-08	5.62E-08	3.13E-08	5.52E-07	4.31E-09	5.78E-08	8.77E-09	8.77E-09	4.82E-09	8.45E-08	2.34E-09	3.13E-08	3.90E-09	3.90E-09	1.93E-09	4.34E-08
1076	258787.85	4084527.51	2.92E-08	3.91E-07	5.78E-08	5.78E-08	3.22E-08	5.68E-07	4.44E-09	5.95E-08	9.02E-09	9.02E-09	4.96E-09	8.70E-08	2.41E-09	3.22E-08	4.01E-09	4.01E-09	1.99E-09	4.46E-08
1077	258797.88	4084549.69	2.99E-08	3.99E-07	5.91E-08	5.91E-08	3.29E-08	5.80E-07	4.54E-09	6.08E-08	9.22E-09	9.22E-09	5.07E-09	8.89E-08	2.46E-09	3.29E-08	4.10E-09	4.10E-09	2.03E-09	4.56E-08
1078	258807.92	4084571.87	3.03E-08	4.05E-07	6.00E-08	6.00E-08	3.34E-08	5.89E-07	4.60E-09	6.17E-08	9.36E-09	9.36E-09	5.15E-09	9.02E-08	2.50E-09	3.34E-08	4.16E-09	4.16E-09	2.06E-09	4.63E-08
1079	258817.95	4084594.05	3.06E-08	4.08E-07	6.04E-08	6.04E-08	3.37E-08	5.93E-07	4.64E-09	6.22E-08	9.43E-09	9.43E-09	5.18E-09	9.09E-08	2.52E-09	3.36E-08	4.19E-09	4.19E-09	2.08E-09	4.66E-08
1080	258827.98	4084616.23	3.05E-08	4.08E-07	6.03E-08	6.03E-08	3.36E-08	5.93E-07	4.63E-09	6.21E-08	9.42E-09	9.42E-09	5.18E-09	9.08E-08	2.52E-09	3.36E-08	4.19E-09	4.19E-09	2.07E-09	4.66E-08
1081	258838.02	4084638.41	3.03E-08	4.04E-07	5.98E-08	5.98E-08	3.33E-08	5.87E-07	4.59E-09	6.16E-08	9.34E-09	9.34E-09	5.13E-09	9.00E-08	2.49E-09	3.33E-08	4.15E-09	4.15E-09	2.06E-09	4.62E-08
1082	258848.05	4084660.59	2.97E-08	3.97E-07	5.88E-08	5.88E-08	3.28E-08	5.77E-07	4.51E-09	6.05E-08	9.18E-09	9.18E-09	5.05E-09	8.84E-08	2.45E-09	3.27E-08	4.08E-09	4.08E-09	2.02E-09	4.54E-08
1083	258858.09	4084682.77	2.90E-08	3.87E-07	5.73E-08	5.73E-08	3.19E-08	5.63E-07	4.40E-09	5.90E-08	8.94E-09	8.94E-09	4.92E-09	8.62E-08	2.39E-09	3.19E-08	3.98E-09	3.98E-09	1.97E-09	4.42E-08
1084	258868.12	4084704.95	2.80E-08	3.74E-07	5.54E-08	5.54E-08	3.09E-08	5.44E-07	4.25E-09	5.70E-08	8.64E-09	8.64E-09	4.75E-09	8.33E-08	2.31E-09	3.08E-08	3.85E-09	3.85E-09	1.90E-09	4.28E-08
1085	258878.15	4084727.12	2.69E-08	3.59E-07	5.31E-08	5.31E-08	2.96E-08	5.21E-07	4.08E-09	5.47E-08	8.29E-09	8.29E-09	4.56E-09	7.99E-08	2.21E-09	2.96E-08	3.69E-09	3.69E-09	1.83E-09	4.10E-08
1086	258888.19	4084749.3	2.56E-08	3.42E-07	5.05E-08	5.05E-08	2.82E-08	4.96E-07	3.88E-09	5.20E-08	7.89E-09	7.89E-09	4.34E-09	7.60E-08	2.11E-09	2.82E-08	3.51E-09	3.51E-09	1.74E-09	3.90E-08
1087	258898.22	4084771.48	2.42E-08	3.23E-07	4.78E-08	4.78E-08	2.66E-08	4.69E-07	3.67E-09	4.92E-08	7.46E-09	7.46E-09	4.10E-09	7.19E-08	1.99E-09	2.66E-08	3.32E-09	3.32E-09	1.64E-09	3.69E-08
1088	258908.26	4084793.66	2.27E-08	3.04E-07	4.49E-08	4.49E-08	2.50E-08	4.41E-07	3.45E-09	4.63E-08	7.01E-09	7.01E-09	3.86E-09	6.76E-08	1.87E-09	2.50E-08	3.12E-09	3.12E-09	1.54E-09	3.47E-08
1089	258918.29	4084815.84	2.13E-08	2.84E-07	4.21E-08	4.21E-08	2.34E-08	4.13E-07	3.23E-09	4.33E-08	6.57E-09	6.57E-09	3.61E-09	6.33E-08	1.75E-09	2.34E-08	2.92E-09	2.92E-09	1.45E-09	3.25E-08
1090	258928.32	4084838.02	1.99E-08	2.65E-07	3.92E-08	3.92E-08	2.19E-08	3.85E-07	3.01E-09	4.04E-08	6.13E-09	6.13E-09	3.37E-09	5.90E-08	1.64E-09	2.19E-08	2.73E-09	2.73E-09	1.35E-09	3.03E-08
1091	258938.36	4084860.2	1.85E-08	2.47E-07	3.65E-08	3.65E-08	2.04E-08	3.59E-07	2.80E-09	3.76E-08	5.70E-09	5.70E-09	3.14E-09	5.50E-08	1.52E-09	2.03E-08	2.54E-09	2.54E-09	1.26E-09	2.82E-08
1092	258948.39	4084882.38	1.72E-08	2.29E-07	3.39E-08	3.39E-08	1.89E-08	3.33E-07	2.61E-09	3.49E-08	5.30E-09	5.30E-09	2.91E-09	5.11E-08	1.42E-09	1.89E-08	2.36E-09	2.36E-09	1.17E-09	2.62E-08
1093	258334.03	4084322.57	1.32E-08	1.77E-07	2.62E-08	2.62E-08	1.46E-08	2.57E-07	2.01E-09	2.69E-08	4.09E-09	4.09E-09	2.25E-09	3.94E-08	1.09E-09	1.46E-08	1.82E-09	1.82E-09	9.00E-10	2.02E-08
1094	258309.7	4084323.57	1.28E-08	1.70E-07	2.52E-08	2.52E-08	1.41E-08	2.48E-07	1.94E-09	2.60E-08	3.94E-09	3.94E-09	2.16E-09	3.79E-08	1.05E-09	1.40E-08	1.75E-09	1.75E-09	8.67E-10	1.95E-08
1095	258285.37	4084324.57	1.23E-08	1.64E-07	2.42E-08	2.42E-08	1.35E-08	2.38E-07	1.86E-09	2.50E-08	3.78E-09	3.78E-09	2.08E-09	3.65E-08	1.01E-09	1.35E-08	1.68E-09	1.68E-09	8.33E-10	1.87E-08
1096	258261.04	4084325.57	1.18E-08	1.57E-07	2.32E-08	2.32E-08	1.30E-08	2.28E-07	1.78E-09	2.39E-08	3.63E-09	3.63E-09	1.99E-09	3.50E-08	9.69E-10	1.29E-08	1.61E-09	1.61E-09	7.99E-10	1.79E-08
1097	258236.71	4084326.57	1.12E-08	1.50E-07	2.22E-08	2.22E-08	1.24E-08	2.18E-07	1.71E-09	2.29E-08	3.47E-09	3.47E-09	1.91E-09	3.34E-08	9.27E-10	1.24E-08	1.54E-09	1.54E-09	7.64E-10	1.72E-08
1098	258212.38	4084327.57	1.07E-08	1.43E-07	2.12E-08	2.12E-08	1.18E-08	2.08E-07	1.63E-09	2.18E-08	3.31E-09	3.31E-09	1.82E-09	3.19E-08	8.85E-10	1.18E-08	1.47E-09	1.47E-09	7.29E-10	1.64E-08
1099	258188.04	4084328.57	1.02E-08	1.36E-07	2.02E-08	2.02E-08	1.13E-08	1.98E-07	1.55E-09	2.08E-08	3.15E-09	3.15E-09	1.73E-09	3.04E-08	8.42E-10	1.12E-08	1.40E-09	1.40E-09	6.94E-10	1.56E-08
1100	258163.71	4084329.57	9.71E-09	1.30E-07	1.92E-08	1.92E-08	1.07E-08	1.88E-07	1.47E-09	1.98E-08	3.00E-09	3.00E-09	1.65E-09	2.89E-08	8.00E-10	1.07E-08	1.33E-09	1.33E-09	6.60E-10	1.48E-08
1101	258139.38	4084330.57	9.20E-09	1.23E-07	1.82E-08	1.82E-08	1.01E-08	1.79E-07	1.40E-09	1.87E-08	2.84E-09	2.84E-09	1.56E-09	2.74E-08	7.59E-10	1.01E-08	1.26E-09	1.26E-09	6.25E-10	1.40E-08
1102	258115.05	4084331.57	8.72E-09	1.16E-07	1.72E-08	1.72E-08	9.60E-09	1.69E-07	1.32E-09	1.77E-08	2.69E-09	2.69E-09	1.48E-09	2.59E-08	7.19E-10	9.60E-09	1.20E-09	1.20E-09	5.92E-10	1.33E-08
1103	258090.72	4084332.57	8.25E-09	1.10E-07	1.63E-08	1.63E-08	9.09E-09	1.60E-07	1.25E-09	1.68E-08	2.54E-09	2.54E-09	1.40E-09	2.45E-08	6.80E-10	9.08E-09	1.13E-09	1.13E-09	5.60E-10	1.26E-08
1104	258066.38	4084333.57	7.80E-09	1.04E-07	1.54E-08	1.54E-08	8.59E-09	1.51E-07	1.18E-09	1.59E-08	2.41E-09	2.41E-09	1.32E-09	2.32E-08	6.43E-10	8.58E-09	1.07E-09	1.07E-09	5.30E-10	1.19E-08
1105	258042.05	4084334.57	7.37E-09	9.84E-08	1.46E-08	1.46E-08	8.12E-09	1.43E-07	1.12E-09	1.50E-08	2.27E-09	2.27E-09	1.25E-09	2.19E-08	6.07E-10	8.11E-09	1.01E-09	1.01E-09	5.01E-10	1.12E-08
1106	258017.72	4084335.57	6.96E-09	9.30E-08	1.38E-08	1.38E-08	7.67E-09	1.35E-07	1.06E-09	1.42E-08	2.15E-09	2.15E-09	1.18E-09	2.07E-08	5.74E-10	7.67E-09	9.56E-10	9.56E-10	4.73E-10	1.06E-08
1107	257993.39	4084336.57	6.59E-09	8.80E-08	1.30E-08	1.30E-08	7.26E-09	1.28E-07	1.00E-09	1.34E-08	2.03E-09	2.03E-09	1.12E-09	1.96E-08	5.43E-10	7.25E-09	9.04E-10	9.04E-10	4.48E-10	1.01E-08
1108	257969.06	4084337.57	6.23E-09	8.33E-08	1.23E-08	1.23E-08	6.87E-09	1.21E-07	9.46E-10	1.27E-08	1.92E-09	1.92E-09	1.06E-09	1.85E-08	5.14E-10	6.86E-09	8.56E-10	8.56E-10	4.24E-10	9.51E-09
1109	257944.73	4084338.57	5.90E-09	7.89E-08	1.17E-08	1.17E-08	6.51E-09	1.15E-07	8.96E-10	1.20E-08	1.82E-09	1.82E-09	1.00E-09	1.76E-08	4.87E-10	6.50E-09	8.11E-10	8.11E-10	4.01E-10	9.01E-09
1110	257920.39	4084339.57	5.60E-09	7.48E-08	1.11E-08	1.11E-08	6.17E-09	1.09E-07	8.50E-10	1.14E-08	1.73E-09	1.73E-09	9.50E-10	1.66E-08	4.61E-10	6.16E-09	7.68E-10	7.68E-10	3.80E-10	8.54E-09
1111	257896.06	4084340.57	5.31E-09	7.10E-08	1.05E-08	1.05E-08	5.85E-09	1.03E-07	8.06E-10	1.08E-08	1.64E-09	1.64E-09	9.01E-10	1.58E-08	4.38E-10	5.85E-09	7.29E-10	7.29E-10	3.61E-10	8.11E-09
1112	257871.73	4084341.57	5.05E-09	6.74E-08	9.98E-09	9.98E-09	5.56E-09	9.80E-08	7.66E-10	1.03E-08	1.56E-09	1.56E-09	8.56E-10	1.50E-08	4.16E-10	5.56E-09	6.93E-10	6.93E-10	3.43E-10	7.70E-09
1113	257847.4	4084342.57	4.80E-09	6.41E-08	9.49E-09	9.49E-09	5.29E-09	9.32E-08	7.28E-10	9.77E-09	1.48E-09	1.48E-09	8.14E-10	1.43E-08	3.96E-10	5.28E-09	6.59E-10	6.59E-10	3.26E-10	7.32E-09
1114	257823.07	4084343.57	4.57E-09	6.11E-08	9.03E-09	9.03E-09	5.04E-09	8.87E-08	6.94E-10	9.30E-09	1.41E-09	1.41E-09	7.75E-10	1.36E-08	3.77E-10	5.03E-09	6.27E-10	6.27E-10	3.11E-10	6.97E-09
1115	257798.73	4084344.57	4.36E-09	5.82E-08	8.61E-09	8.61E-09	4.80E-09	8.46E-08	6.61E-10	8.87E-09	1.34E-09	1.34E-09	7.39E-10	1.30E-08	3.59E-10	4.80E-09	5.98E-10	5.98E-10	2.96E-10	6.65E-09
1116	257774.4	4084345.57	4.16E-09	5.56E-08	8.22E-09	8.22E-09	4.58E-09	8.08E-08	6.31E-10	8.47E-09	1.28E-09	1.28E-09	7.06E-10	1.24E-08	3.43E-10	4.58E-09	5.71E-10	5.71E-10	2.83E-10	6.35E-09
1117	257750.07	4084346.57	3.98E-09	5.31E-08	7.86E-09	7.86E-09	4.38E-09	7.72E-08	6.04E-10	8.10E-09	1.23E-09	1.23E-09	6.75E-10	1.18E-08	3.28E-10	4.38E-09	5.46E-10	5.46E-10	2.70E-10	6.07E-09
1118	257725.74	4084347.57	3.81E-09	5.09E-08	7.53E-09	7.53E-09	4.20E-09	7.40E-08	5.78E-10	7.76E-09	1.18E-09	1.18E-09	6.47E-10	1.13E-08	3.14E-10	4.20E-09	5.23E-10	5.23E-10	2.59E-10	5.82E-09
1119	257701.41	4084348.57	3.66E-09	4.89E-08	7.23E-09	7.23E-09	4.03E-09	7.10E-08	5.55E-10	7.45E-09	1.13E-09	1.13E-09	6.21E-10	1.09E-08	3.02E-10	4.03E-09	5.02E-10	5.02E-10	2.49E-10	5.58E-09
1120	257677.08	4084349.57	3.52E-09	4.70E-08	6.96E-09	6.96E-09	3.88E-09	6.83E-08	5.34E-10	7.16E-09	1.09E-09	1.09E-09	5.97E-10	1.05E-08	2.90E-10	3.88E-09	4.83E-10	4.83E-10	2.39E-10	5.37E-09
1121	257652.74	4084350.57	3.39E-09	4.53E-08	6.70E-09	6.70E-09	3.74E-09	6.58E-08	5.15E-10	6.90E-09	1.05E-09	1.05E-09	5.75E-10	1.01E-08	2.80E-10	3.73E-09	4.66E-10	4.66E-10	2.30E-10	5.18E-09
1122	257628.41	4084351.58	3.28E-09	4.38E-08	6.47E-09	6.47E-09	3.61E-09	6.36E-08	4.97E-10	6.67E-09	1.01E-09	1.01E-09	5.56E-10	9.74E-09	2.70E-10	3.61E-09	4.50E-10	4.50E-10	2.23E-10	5.00E-09
1123	257604.08	4084352.58	3.17E-09	4.23E-08	6.26E-09	6.26E-09	3.49E-09	6.15E-08	4.81E-10	6.45E-09	9.78E-10	9.78E-10	5.38E-10	9.42E-09	2.61E-10	3.49E-09	4.35E-10	4.35E-10	2.15E-10	4.84E-09
1124	257579.75	4084353.58	3.07E-09	4.10E-08	6.07E-09	6.07E-09	3.38E-09	5.96E-08	4.66E-10	6.25E-09	9.47E-10	9.47E-10	5.21E-10	9.13E-09	2.53E-10	3.38E-09	4.21E-10	4.21E-10	2.09E-10	4.68E-09
1125	257555.42	4084354.58	2.98E-09	3.98E-08	5.88E-09	5.88E-09	3.28E-09	5.78E-08	4.52E-10	6.06E-09	9.19E-10	9.19E-10	5.05E-10	8.85E-09	2.45E-10	3.28E-09	4.09E-10	4.09E-10	2.02E-10	4.54E-09
1126	257531.08	4084355.58	2.89E-09	3.86E-08	5.71E-09	5.71E-09	3.19E-09	5.61E-08	4.39E-10	5.88E-09	8.92E-10	8.92E-10	4.91E-10	8.60E-09	2.38E-10	3.18E-09	3.97E-10	3.97E-10	1.96E-10	4.41E-09
1127	258351.93	4084230.8	9.62E-09	1.29E-07	1.90E-08	1.90E-08	1.06E-08	1.87E-07	1.46E-09	1.96E-08	2.97E-09	2.97E-09	1.63E-09	2.86E-08	7.93E-10	1.06E-08	1.32E-09	1.32E-09	6.54E-10	1.47E-08
1128	258373.93	4084238.94	1.03E-08	1.37E-07	2.03E-08	2.03E-08	1.13E-08	2.00E-07	1.56E-09	2.09E-08	3.18E-09	3.18E-09	1.75E-09	3.06E-08	8.48E-10	1.13E-08	1.41E-09	1.41E-09	6.99E-10	1.57E-08
1129	258395.93	4084247.09	1.10E-08	1.47E-07	2.17E-08	2.17E-08	1.21E-08	2.13E-07	1.67E-09	2.24E-08	3.39E-09	3.39E-09	1.86E-09	3.27E-08	9.05E-10	1.21E-08	1.51E-09	1.51E-09	7.46E-10	1.68E-08
1130	258417.93	4084255.23	1.17E-08	1.56E-07	2.31E-08	2.31E-08	1.29E-08	2.27E-07	1.78E-09	2.38E-08	3.61E-09	3.61E-09	1.98E-09	3.48E-08	9.65E-10	1.29E-08	1.61E-09	1.61E-09	7.95E-10	1.79E-08
1131	258439.93	4084263.38	1.24E-08	1.66E-07	2.46E-08	2.46E-08	1.37E-08	2.41E-07	1.89E-09	2.53E-08	3.84E-09	3.84E-09	2.11E-09	3.70E-08	1.03E-09	1.37E-08	1.71E-09	1.71E-09	8.45E-10	1.90E-08
1132	258461.94	4084271.53	1.32E-08	1.76E-07	2.61E-08	2.61E-08	1.45E-08	2.56E-07	2.00E-09	2.68E-08	4.07E-09	4.07E-09	2.24E-09	3.92E-08	1.09E-09	1.45E-08	1.81E-09	1.81E-09	8.96E-10	2.01E-08
1133	258483.94	4084279.67	1.39E-08	1.86E-07	2.76E-08	2.76E-08	1.54E-08	2.71E-07	2.12E-09	2.84E-08	4.30E-09	4.30E-09	2.37E-09	4.15E-08	1.15E-09	1.54E-08	1.91E-09	1.91E-09	9.47E-10	2.13E-08
1134	258505.94	4084287.82	1.47E-08	1.96E-07	2.91E-08	2.91E-08	1.62E-08	2.85E-07	2.23E-09	2.99E-08	4.54E-09	4.54E-09	2.49E-09	4.37E-08	1.21E-09	1.62E-08	2.02E-09	2.02E-09	9.99E-10	2.24E-08
1135	258527.94	4084295.96	1.55E-08	2.07E-07	3.06E-08	3.06E-08	1.70E-08	3.00E-07	2.35E-09	3.15E-08	4.77E-09	4.77E-09	2.62E-09	4.60E-08	1.27E-09	1.70E-08	2.12E-09	2.12E-09	1.05E-09	2.36E-08
1136	258549.94	4084304.11	1.62E-08	2.17E-07	3.20E-08	3.20E-08	1.79E-08	3.15E-07	2.46E-09	3.30E-08	5.00E-09	5.00E-09	2.75E-09	4.82E-08	1.34E-09	1.79E-08	2.23E-09	2.23E-09	1.10E-09	2.47E-08
1137	258571.94	4084312.25	1.70E-08	2.26E-07	3.35E-08	3.35E-08	1.87E-08	3.29E-07	2.57E-09	3.45E-08	5.23E-09	5.23E-09	2.88E-09	5.04E-08	1.40E-09	1.87E-08	2.33E-09	2.33E-09	1.15E-09	2.59E-08
1138	258593.95	4084320.4	1.77E-08	2.36E-07	3.49E-08	3.49E-08	1.95E-08	3.43E-07	2.68E-09	3.60E-08	5.46E-09	5.46E-09	3.00E-09	5.26E-08	1.46E-09	1.95E-08	2.43E-09	2.43E-09	1.20E-09	2.70E-08
1139	258615.95	4084328.55	1.84E-08	2.45E-07	3.63E-08	3.63E-08	2.02E-08	3.57E-07	2.79E-09	3.74E-08	5.67E-09	5.67E-09	3.12E-09	5.46E-08	1.51E-09	2.02E-08	2.52E-09	2.52E-09	1.25E-09	2.80E-08
1140	258637.95	4084336.69	1.90E-08	2.54E-07	3.76E-08	3.76E-08	2.10E-08	3.70E-07	2.89E-09	3.87E-08	5.87E-09	5.87E-09	3.23E-09	5.66E-08	1.57E-09	2.10E-08	2.61E-09	2.61E-09	1.29E-09	2.91E-08
1141	258659.95	4084344.84	1.97E-08	2.63E-07	3.89E-08	3.89E-08	2.17E-08	3.82E-07	2.98E-09	4.00E-08	6.07E-09	6.07E-09	3.34E-09	5.85E-08	1.62E-09	2.17E-08	2.70E-09	2.70E-09	1.34E-09	3.00E-08
1142	258681.95	4084352.98	2.02E-08	2.70E-07	4.00E-08	4.00E-08	2.23E-08	3.93E-07	3.07E-09	4.12E-08	6.25E-09	6.25E-09	3.43E-09	6.02E-08	1.67E-09	2.23E-08	2.78E-09	2.78E-09	1.38E-09	3.09E-08
1143	258703.95	4084361.13	2.08E-08	2.77E-07	4.10E-08	4.10E-08	2.29E-08	4.03E-07	3.15E-09	4.23E-08	6.41E-09	6.41E-09	3.52E-09	6.17E-08	1.71E-09	2.29E-08	2.85E-09	2.85E-09	1.41E-09	3.17E-08
1144	258725.96	4084369.28	2.12E-08	2.84E-07	4.19E-08	4.19E-08	2.34E-08	4.12E-07	3.22E-09	4.32E-08	6.55E-09	6.55E-09	3.60E-09	6.31E-08	1.75E-09	2.34E-08	2.91E-09	2.91E-09	1.44E-09	3.24E-08
1145	258747.96	4084377.42	2.16E-08	2.89E-07	4.27E-08	4.27E-08	2.38E-08	4.19E-07	3.28E-09	4.40E-08	6.67E-09	6.67E-09	3.67E-09	6.43E-08	1.78E-09	2.38E-08	2.97E-09	2.97E-09	1.47E-09	3.30E-08
1146	258769.96	4084385.57	2.19E-08	2.93E-07	4.33E-08	4.33E-08	2.41E-08	4.25E-07	3.32E-09	4.46E-08	6.76E-09	6.76E-09	3.72E-09	6.51E-08	1.81E-09	2.41E-08	3.01E-09	3.01E-09	1.49E-09	3.34E-08
1147	258791.96	4084393.71	2.21E-08	2.95E-07	4.37E-08	4.37E-08	2.44E-08	4.29E-07	3.36E-09	4.50E-08	6.82E-09	6.82E-09	3.75E-09	6.57E-08	1.82E-09	2.43E-08	3.04E-09	3.04E-09	1.50E-09	3.37E-08
1148	258813.96	4084401.86	2.22E-08	2.96E-07	4.38E-08	4.38E-08	2.44E-08	4.30E-07	3.36E-09	4.51E-08	6.84E-09	6.84E-09	3.76E-09	6.59E-08	1.83E-09	2.44E-08	3.04E-09	3.04E-09	1.51E-09	3.38E-08
1149	258845.63	4084431.38	2.29E-08	3.06E-07	4.52E-08	4.52E-08	2.52E-08	4.44E-07	3.47E-09	4.66E-08	7.06E-09	7.06E-09	3.88E-09	6.81E-08	1.89E-09	2.52E-08	3.14E-09	3.14E-09	1.56E-09	3.49E-08
1150	258855.3	4084452.76	2.35E-08	3.14E-07	4.65E-08	4.65E-08	2.59E-08	4.56E-07	3.57E-09	4.79E-08	7.26E-09	7.26E-09	3.99E-09	6.99E-08	1.94E-09	2.59E-08	3.23E-09	3.23E-09	1.60E-09	3.59E-08
1151	258864.97	4084474.13	2.40E-08	3.21E-07	4.75E-08	4.75E-08	2.65E-08	4.66E-07	3.65E-09	4.89E-08	7.41E-09	7.41E-09	4.08E-09	7.14E-08	1.98E-09	2.65E-08	3.30E-09	3.30E-09	1.63E-09	3.67E-08
1152	258874.64	4084495.51	2.44E-08	3.26E-07	4.83E-08	4.83E-08	2.69E-08	4.74E-07	3.71E-09	4.97E-08	7.53E-09	7.53E-09	4.14E-09	7.26E-08	2.01E-09	2.69E-08	3.35E-09	3.35E-09	1.66E-09	3.73E-08
1153	258884.32	4084516.88	2.47E-08	3.30E-07	4.88E-08	4.88E-08	2.72E-08	4.79E-07	3.74E-09	5.02E-08	7.61E-09	7.61E-09	4.19E-09	7.34E-08	2.03E-09	2.72E-08	3.39E-09	3.39E-09	1.68E-09	3.77E-08
1154	258893.99	4084538.26	2.48E-08	3.31E-07	4.90E-08	4.90E-08	2.73E-08	4.81E-07	3.76E-09	5.04E-08	7.65E-09	7.65E-09	4.20E-09	7.37E-08	2.04E-09	2.73E-08	3.40E-09	3.40E-09	1.68E-09	3.78E-08
1155	258903.66	4084559.63	2.48E-08	3.31E-07	4.89E-08	4.89E-08	2.73E-08	4.80E-07	3.76E-09	5.04E-08	7.64E-09	7.64E-09	4.20E-09	7.36E-08	2.04E-09	2.73E-08	3.40E-09	3.40E-09	1.68E-09	3.78E-08
1156	258913.33	4084581.01	2.46E-08	3.28E-07	4.86E-08	4.86E-08	2.71E-08	4.77E-07	3.73E-09	5.00E-08	7.58E-09	7.58E-09	4.17E-09	7.31E-08	2.03E-09	2.71E-08	3.37E-09	3.37E-09	1.67E-09	3.75E-08
1157	258923	4084602.38	2.42E-08	3.24E-07	4.79E-08	4.79E-08	2.67E-08	4.71E-07	3.68E-09	4.93E-08	7.48E-09	7.48E-09	4.11E-09	7.21E-08	2.00E-09	2.67E-08	3.33E-09	3.33E-09	1.65E-09	3.70E-08
1158	258932.67	4084623.76	2.38E-08	3.17E-07	4.70E-08	4.70E-08	2.62E-08	4.61E-07	3.61E-09	4.84E-08	7.33E-09	7.33E-09	4.03E-09	7.07E-08	1.96E-09	2.62E-08	3.26E-09	3.26E-09	1.61E-09	3.63E-08
1159	258942.34	4084645.13	2.32E-08	3.09E-07	4.58E-08	4.58E-08	2.55E-08	4.50E-07	3.51E-09	4.71E-08	7.15E-09	7.15E-09	3.93E-09	6.89E-08	1.91E-09	2.55E-08	3.18E-09	3.18E-09	1.57E-09	3.53E-08
1160	258952.01	4084666.51	2.24E-08	3.00E-07	4.43E-08	4.43E-08	2.47E-08	4.35E-07	3.40E-09	4.56E-08	6.92E-09	6.92E-09	3.81E-09	6.67E-08	1.85E-09	2.47E-08	3.08E-09	3.08E-09	1.52E-09	3.42E-08
1161	258961.68	4084687.89	2.16E-08	2.89E-07	4.27E-08	4.27E-08	2.38E-08	4.19E-07	3.28E-09	4.40E-08	6.67E-09	6.67E-09	3.67E-09	6.42E-08	1.78E-09	2.38E-08	2.97E-09	2.97E-09	1.47E-09	3.30E-08
1162	258971.35	4084709.26	2.07E-08	2.77E-07	4.09E-08	4.09E-08	2.28E-08	4.02E-07	3.14E-09	4.21E-08	6.39E-09	6.39E-09	3.51E-09	6.16E-08	1.71E-09	2.28E-08	2.84E-09	2.84E-09	1.41E-09	3.16E-08
1163	258981.02	4084730.64	1.97E-08	2.64E-07	3.90E-08	3.90E-08	2.18E-08	3.83E-07	3.00E-09	4.02E-08	6.09E-09	6.09E-09	3.35E-09	5.87E-08	1.63E-09	2.17E-08	2.71E-09	2.71E-09	1.34E-09	3.01E-08
1164	258990.69	4084752.01	1.87E-08	2.50E-07	3.70E-08	3.70E-08	2.06E-08	3.64E-07	2.84E-09	3.81E-08	5.78E-09	5.78E-09	3.18E-09	5.57E-08	1.54E-09	2.06E-08	2.57E-09	2.57E-09	1.27E-09	2.86E-08
1165	259000.36	4084773.39	1.77E-08	2.37E-07	3.50E-08	3.50E-08	1.95E-08	3.44E-07	2.69E-09	3.61E-08	5.47E-09	5.47E-09	3.01E-09	5.27E-08	1.46E-09	1.95E-08	2.43E-09	2.43E-09	1.20E-09	2.71E-08
1166	259010.03	4084794.76	1.67E-08	2.23E-07	3.31E-08	3.31E-08	1.84E-08	3.25E-07	2.54E-09	3.40E-08	5.16E-09	5.16E-09	2.84E-09	4.97E-08	1.38E-09	1.84E-08	2.30E-09	2.30E-09	1.14E-09	2.55E-08
1167	259019.7	4084816.14	1.57E-08	2.10E-07	3.11E-08	3.11E-08	1.74E-08	3.06E-07	2.39E-09	3.20E-08	4.86E-09	4.86E-09	2.67E-09	4.68E-08	1.30E-09	1.73E-08	2.16E-09	2.16E-09	1.07E-09	2.40E-08
1168	259029.37	4084837.51	1.48E-08	1.98E-07	2.93E-08	2.93E-08	1.63E-08	2.87E-07	2.25E-09	3.01E-08	4.57E-09	4.57E-09	2.51E-09	4.40E-08	1.22E-09	1.63E-08	2.03E-09	2.03E-09	1.01E-09	2.26E-08
1169	259039.04	4084858.89	1.39E-08	1.86E-07	2.75E-08	2.75E-08	1.53E-08	2.70E-07	2.11E-09	2.83E-08	4.29E-09	4.29E-09	2.36E-09	4.14E-08	1.15E-09	1.53E-08	1.91E-09	1.91E-09	9.45E-10	2.12E-08
1170	259048.71	4084880.26	1.31E-08	1.74E-07	2.58E-08	2.58E-08	1.44E-08	2.54E-07	1.98E-09	2.66E-08	4.03E-09	4.03E-09	2.22E-09	3.88E-08	1.08E-09	1.44E-08	1.79E-09	1.79E-09	8.88E-10	1.99E-08
1171	258329.93	4084222.65	8.98E-09	1.20E-07	1.78E-08	1.78E-08	9.90E-09	1.74E-07	1.36E-09	1.83E-08	2.77E-09	2.77E-09	1.52E-09	2.67E-08	7.41E-10	9.89E-09	1.23E-09	1.23E-09	6.11E-10	1.37E-08
1172	258305.59	4084223.65	8.62E-09	1.15E-07	1.70E-08	1.70E-08	9.50E-09	1.67E-07	1.31E-09	1.75E-08	2.66E-09	2.66E-09	1.46E-09	2.56E-08	7.11E-10	9.50E-09	1.18E-09	1.18E-09	5.86E-10	1.32E-08
1173	258281.26	4084224.65	8.26E-09	1.10E-07	1.63E-08	1.63E-08	9.11E-09	1.60E-07	1.25E-09	1.68E-08	2.55E-09	2.55E-09	1.40E-09	2.46E-08	6.81E-10	9.10E-09	1.13E-09	1.13E-09	5.62E-10	1.26E-08
1174	258256.93	4084225.65	7.91E-09	1.06E-07	1.56E-08	1.56E-08	8.71E-09	1.54E-07	1.20E-09	1.61E-08	2.44E-09	2.44E-09	1.34E-09	2.35E-08	6.52E-10	8.71E-09	1.09E-09	1.09E-09	5.37E-10	1.21E-08
1175	258232.6	4084226.65	7.56E-09	1.01E-07	1.49E-08	1.49E-08	8.32E-09	1.47E-07	1.15E-09	1.54E-08	2.33E-09	2.33E-09	1.28E-09	2.25E-08	6.23E-10	8.32E-09	1.04E-09	1.04E-09	5.13E-10	1.15E-08
1176	258208.27	4084227.65	7.21E-09	9.63E-08	1.42E-08	1.42E-08	7.94E-09	1.40E-07	1.09E-09	1.47E-08	2.22E-09	2.22E-09	1.22E-09	2.14E-08	5.94E-10	7.93E-09	9.89E-10	9.89E-10	4.90E-10	1.10E-08

1177	258183.94	4084228.65	6.86E-09	9.17E-08	1.36E-08	1.36E-08	7.56E-09	1.33E-07	1.04E-09	1.40E-08	2.12E-09	2.12E-09	1.16E-09	2.04E-08	5.66E-10	7.56E-09	9.42E-10	9.42E-10	4.66E-10	1.05E-08
1178	258159.6	4084229.65	6.53E-09	8.72E-08	1.29E-08	1.29E-08	7.20E-09	1.27E-07	9.91E-10	1.33E-08	2.02E-09	2.02E-09	1.11E-09	1.94E-08	5.38E-10	7.19E-09	8.97E-10	8.97E-10	4.44E-10	9.97E-09
1179	258135.27	4084230.65	6.21E-09	8.29E-08	1.23E-08	1.23E-08	6.84E-09	1.21E-07	9.42E-10	1.26E-08	1.92E-09	1.92E-09	1.05E-09	1.85E-08	5.12E-10	6.84E-09	8.52E-10	8.52E-10	4.22E-10	9.48E-09
1180	258110.94	4084231.65	5.90E-09	7.88E-08	1.17E-08	1.17E-08	6.50E-09	1.15E-07	8.96E-10	1.20E-08	1.82E-09	1.82E-09	1.00E-09	1.75E-08	4.86E-10	6.50E-09	8.10E-10	8.10E-10	4.01E-10	9.00E-09
1181	258086.61	4084232.65	5.61E-09	7.49E-08	1.11E-08	1.11E-08	6.18E-09	1.09E-07	8.51E-10	1.14E-08	1.73E-09	1.73E-09	9.52E-10	1.67E-08	4.62E-10	6.18E-09	7.70E-10	7.70E-10	3.81E-10	8.56E-09
1182	258062.28	4084233.65	5.33E-09	7.12E-08	1.05E-08	1.05E-08	5.88E-09	1.04E-07	8.09E-10	1.09E-08	1.65E-09	1.65E-09	9.05E-10	1.59E-08	4.40E-10	5.87E-09	7.32E-10	7.32E-10	3.62E-10	8.14E-09
1183	258037.94	4084234.65	5.07E-09	6.78E-08	1.00E-08	1.00E-08	5.59E-09	9.85E-08	7.70E-10	1.03E-08	1.57E-09	1.57E-09	8.60E-10	1.51E-08	4.18E-10	5.58E-09	6.96E-10	6.96E-10	3.45E-10	7.74E-09
1184	258013.61	4084235.65	4.83E-09	6.45E-08	9.54E-09	9.54E-09	5.32E-09	9.37E-08	7.33E-10	9.82E-09	1.49E-09	1.49E-09	8.19E-10	1.44E-08	3.98E-10	5.32E-09	6.63E-10	6.63E-10	3.28E-10	7.37E-09
1185	257989.28	4084236.66	4.60E-09	6.14E-08	9.09E-09	9.09E-09	5.07E-09	8.93E-08	6.98E-10	9.36E-09	1.42E-09	1.42E-09	7.80E-10	1.37E-08	3.79E-10	5.06E-09	6.32E-10	6.32E-10	3.13E-10	7.02E-09
1186	257964.95	4084237.66	4.39E-09	5.86E-08	8.67E-09	8.67E-09	4.83E-09	8.52E-08	6.66E-10	8.93E-09	1.35E-09	1.35E-09	7.44E-10	1.30E-08	3.62E-10	4.83E-09	6.02E-10	6.02E-10	2.98E-10	6.70E-09
1187	257940.62	4084238.66	4.19E-09	5.60E-08	8.28E-09	8.28E-09	4.62E-09	8.13E-08	6.36E-10	8.53E-09	1.29E-09	1.29E-09	7.11E-10	1.25E-08	3.45E-10	4.61E-09	5.75E-10	5.75E-10	2.85E-10	6.39E-09
1188	257916.29	4084239.66	4.01E-09	5.35E-08	7.92E-09	7.92E-09	4.41E-09	7.77E-08	6.08E-10	8.15E-09	1.24E-09	1.24E-09	6.79E-10	1.19E-08	3.30E-10	4.41E-09	5.50E-10	5.50E-10	2.72E-10	6.11E-09
1189	257891.95	4084240.66	3.83E-09	5.12E-08	7.58E-09	7.58E-09	4.23E-09	7.44E-08	5.82E-10	7.80E-09	1.18E-09	1.18E-09	6.51E-10	1.14E-08	3.16E-10	4.22E-09	5.26E-10	5.26E-10	2.61E-10	5.85E-09
1190	257867.62	4084241.66	3.68E-09	4.91E-08	7.27E-09	7.27E-09	4.05E-09	7.14E-08	5.58E-10	7.48E-09	1.13E-09	1.13E-09	6.24E-10	1.09E-08	3.03E-10	4.05E-09	5.05E-10	5.05E-10	2.50E-10	5.61E-09
1191	257843.29	4084242.66	3.53E-09	4.72E-08	6.98E-09	6.98E-09	3.89E-09	6.85E-08	5.36E-10	7.19E-09	1.09E-09	1.09E-09	5.99E-10	1.05E-08	2.91E-10	3.89E-09	4.85E-10	4.85E-10	2.40E-10	5.39E-09
1192	257818.96	4084243.66	3.40E-09	4.54E-08	6.72E-09	6.72E-09	3.74E-09	6.60E-08	5.16E-10	6.91E-09	1.05E-09	1.05E-09	5.76E-10	1.01E-08	2.80E-10	3.74E-09	4.67E-10	4.67E-10	2.31E-10	5.19E-09
1193	257794.63	4084244.66	3.27E-09	4.37E-08	6.47E-09	6.47E-09	3.61E-09	6.35E-08	4.97E-10	6.66E-09	1.01E-09	1.01E-09	5.55E-10	9.73E-09	2.70E-10	3.60E-09	4.49E-10	4.49E-10	2.22E-10	4.99E-09
1194	257770.29	4084245.66	3.16E-09	4.22E-08	6.24E-09	6.24E-09	3.48E-09	6.13E-08	4.79E-10	6.42E-09	9.74E-10	9.74E-10	5.35E-10	9.39E-09	2.60E-10	3.48E-09	4.33E-10	4.33E-10	2.14E-10	4.82E-09
1195	257745.96	4084246.66	3.05E-09	4.07E-08	6.02E-09	6.02E-09	3.36E-09	5.92E-08	4.63E-10	6.20E-09	9.41E-10	9.41E-10	5.17E-10	9.06E-09	2.51E-10	3.36E-09	4.18E-10	4.18E-10	2.07E-10	4.65E-09
1196	257721.63	4084247.66	2.95E-09	3.93E-08	5.82E-09	5.82E-09	3.25E-09	5.72E-08	4.47E-10	5.99E-09	9.09E-10	9.09E-10	5.00E-10	8.76E-09	2.43E-10	3.24E-09	4.04E-10	4.04E-10	2.00E-10	4.50E-09
1197	257697.3	4084248.66	2.85E-09	3.81E-08	5.63E-09	5.63E-09	3.14E-09	5.53E-08	4.33E-10	5.80E-09	8.79E-10	8.79E-10	4.83E-10	8.47E-09	2.35E-10	3.14E-09	3.91E-10	3.91E-10	1.94E-10	4.35E-09
1198	257672.97	4084249.66	2.76E-09	3.69E-08	5.46E-09	5.46E-09	3.04E-09	5.36E-08	4.19E-10	5.62E-09	8.52E-10	8.52E-10	4.68E-10	8.21E-09	2.28E-10	3.04E-09	3.79E-10	3.79E-10	1.88E-10	4.21E-09
1199	257648.64	4084250.66	2.68E-09	3.57E-08	5.29E-09	5.29E-09	2.95E-09	5.20E-08	4.06E-10	5.45E-09	8.26E-10	8.26E-10	4.54E-10	7.96E-09	2.21E-10	2.95E-09	3.67E-10	3.67E-10	1.82E-10	4.08E-09
1200	257624.3	4084251.66	2.60E-09	3.47E-08	5.13E-09	5.13E-09	2.86E-09	5.04E-08	3.94E-10	5.29E-09	8.01E-10	8.01E-10	4.41E-10	7.72E-09	2.14E-10	2.86E-09	3.57E-10	3.57E-10	1.77E-10	3.96E-09
1201	257599.97	4084252.66	2.52E-09	3.37E-08	4.98E-09	4.98E-09	2.78E-09	4.89E-08	3.83E-10	5.13E-09	7.78E-10	7.78E-10	4.28E-10	7.50E-09	2.08E-10	2.78E-09	3.46E-10	3.46E-10	1.71E-10	3.85E-09
1202	257575.64	4084253.66	2.45E-09	3.27E-08	4.84E-09	4.84E-09	2.70E-09	4.76E-08	3.72E-10	4.99E-09	7.56E-10	7.56E-10	4.16E-10	7.29E-09	2.02E-10	2.70E-09	3.36E-10	3.36E-10	1.67E-10	3.74E-09
1203	257551.31	4084254.66	2.38E-09	3.18E-08	4.71E-09	4.71E-09	2.63E-09	4.63E-08	3.62E-10	4.85E-09	7.35E-10	7.35E-10	4.04E-10	7.09E-09	1.96E-10	2.62E-09	3.27E-10	3.27E-10	1.62E-10	3.64E-09
1204	257526.98	4084255.66	2.32E-09	3.10E-08	4.59E-09	4.59E-09	2.56E-09	4.50E-08	3.52E-10	4.72E-09	7.16E-10	7.16E-10	3.94E-10	6.90E-09	1.91E-10	2.55E-09	3.19E-10	3.19E-10	1.58E-10	3.54E-09
1205	258344.15	4084031.13	4.92E-09	6.57E-08	9.72E-09	9.72E-09	5.42E-09	9.55E-08	7.46E-10	1.00E-08	1.52E-09	1.52E-09	8.34E-10	1.46E-08	4.05E-10	5.41E-09	6.75E-10	6.75E-10	3.34E-10	7.50E-09
1206	258366.58	4084039.43	5.24E-09	6.99E-08	1.03E-08	1.03E-08	5.77E-09	1.02E-07	7.95E-10	1.07E-08	1.62E-09	1.62E-09	8.88E-10	1.56E-08	4.32E-10	5.77E-09	7.19E-10	7.19E-10	3.56E-10	7.99E-09
1207	258389.02	4084047.74	5.58E-09	7.45E-08	1.10E-08	1.10E-08	6.15E-09	1.08E-07	8.47E-10	1.14E-08	1.72E-09	1.72E-09	9.46E-10	1.66E-08	4.60E-10	6.14E-09	7.66E-10	7.66E-10	3.79E-10	8.51E-09
1208	258411.45	4084056.04	5.94E-09	7.94E-08	1.17E-08	1.17E-08	6.55E-09	1.15E-07	9.02E-10	1.21E-08	1.83E-09	1.83E-09	1.01E-09	1.77E-08	4.90E-10	6.54E-09	8.16E-10	8.16E-10	4.04E-10	9.07E-09
1209	258433.89	4084064.35	6.33E-09	8.45E-08	1.25E-08	1.25E-08	6.97E-09	1.23E-07	9.60E-10	1.29E-08	1.95E-09	1.95E-09	1.07E-09	1.88E-08	5.22E-10	6.97E-09	8.69E-10	8.69E-10	4.30E-10	9.66E-09
1210	258456.32	4084072.66	6.73E-09	9.00E-08	1.33E-08	1.33E-08	7.42E-09	1.31E-07	1.02E-09	1.37E-08	2.08E-09	2.08E-09	1.14E-09	2.00E-08	5.55E-10	7.41E-09	9.24E-10	9.24E-10	4.58E-10	1.03E-08
1211	258478.76	4084080.96	7.16E-09	9.56E-08	1.41E-08	1.41E-08	7.89E-09	1.39E-07	1.09E-09	1.46E-08	2.21E-09	2.21E-09	1.21E-09	2.13E-08	5.90E-10	7.88E-09	9.83E-10	9.83E-10	4.86E-10	1.09E-08
1212	258501.19	4084089.27	7.60E-09	1.02E-07	1.50E-08	1.50E-08	8.37E-09	1.48E-07	1.15E-09	1.55E-08	2.35E-09	2.35E-09	1.29E-09	2.26E-08	6.26E-10	8.37E-09	1.04E-09	1.04E-09	5.16E-10	1.16E-08
1213	258523.63	4084097.58	8.06E-09	1.08E-07	1.59E-08	1.59E-08	8.88E-09	1.56E-07	1.22E-09	1.64E-08	2.49E-09	2.49E-09	1.37E-09	2.40E-08	6.64E-10	8.87E-09	1.11E-09	1.11E-09	5.47E-10	1.23E-08
1214	258546.06	4084105.88	8.53E-09	1.14E-07	1.69E-08	1.69E-08	9.39E-09	1.66E-07	1.29E-09	1.74E-08	2.63E-09	2.63E-09	1.45E-09	2.54E-08	7.03E-10	9.39E-09	1.17E-09	1.17E-09	5.79E-10	1.30E-08
1215	258568.5	4084114.19	9.00E-09	1.20E-07	1.78E-08	1.78E-08	9.92E-09	1.75E-07	1.37E-09	1.83E-08	2.78E-09	2.78E-09	1.53E-09	2.68E-08	7.42E-10	9.91E-09	1.24E-09	1.24E-09	6.12E-10	1.37E-08
1216	258590.93	4084122.5	9.49E-09	1.27E-07	1.88E-08	1.88E-08	1.05E-08	1.84E-07	1.44E-09	1.93E-08	2.93E-09	2.93E-09	1.61E-09	2.82E-08	7.82E-10	1.05E-08	1.30E-09	1.30E-09	6.45E-10	1.45E-08
1217	258613.37	4084130.8	9.98E-09	1.33E-07	1.97E-08	1.97E-08	1.10E-08	1.94E-07	1.51E-09	2.03E-08	3.08E-09	3.08E-09	1.69E-09	2.97E-08	8.23E-10	1.10E-08	1.37E-09	1.37E-09	6.78E-10	1.52E-08
1218	258635.8	4084139.11	1.05E-08	1.40E-07	2.07E-08	2.07E-08	1.15E-08	2.03E-07	1.59E-09	2.13E-08	3.23E-09	3.23E-09	1.78E-09	3.11E-08	8.63E-10	1.15E-08	1.44E-09	1.44E-09	7.12E-10	1.60E-08
1219	258658.24	4084147.41	1.10E-08	1.46E-07	2.17E-08	2.17E-08	1.21E-08	2.13E-07	1.66E-09	2.23E-08	3.38E-09	3.38E-09	1.86E-09	3.26E-08	9.03E-10	1.21E-08	1.50E-09	1.50E-09	7.45E-10	1.67E-08
1220	258680.67	4084155.72	1.14E-08	1.53E-07	2.26E-08	2.26E-08	1.26E-08	2.22E-07	1.74E-09	2.33E-08	3.53E-09	3.53E-09	1.94E-09	3.40E-08	9.43E-10	1.26E-08	1.57E-09	1.57E-09	7.77E-10	1.75E-08
1221	258703.11	4084164.03	1.19E-08	1.59E-07	2.35E-08	2.35E-08	1.31E-08	2.31E-07	1.81E-09	2.42E-08	3.68E-09	3.68E-09	2.02E-09	3.54E-08	9.82E-10	1.31E-08	1.64E-09	1.64E-09	8.10E-10	1.82E-08
1222	258725.54	4084172.33	1.24E-08	1.65E-07	2.45E-08	2.45E-08	1.36E-08	2.40E-07	1.88E-09	2.52E-08	3.82E-09	3.82E-09	2.10E-09	3.68E-08	1.02E-09	1.36E-08	1.70E-09	1.70E-09	8.41E-10	1.89E-08
1223	258747.98	4084180.64	1.28E-08	1.71E-07	2.53E-08	2.53E-08	1.41E-08	2.49E-07	1.95E-09	2.61E-08	3.96E-09	3.96E-09	2.17E-09	3.81E-08	1.06E-09	1.41E-08	1.76E-09	1.76E-09	8.71E-10	1.96E-08
1224	258770.41	4084188.95	1.32E-08	1.77E-07	2.62E-08	2.62E-08	1.46E-08	2.57E-07	2.01E-09	2.69E-08	4.09E-09	4.09E-09	2.25E-09	3.94E-08	1.09E-09	1.46E-08	1.82E-09	1.82E-09	9.00E-10	2.02E-08
1225	258792.85	4084197.25	1.36E-08	1.82E-07	2.70E-08	2.70E-08	1.50E-08	2.65E-07	2.07E-09	2.78E-08	4.21E-09	4.21E-09	2.31E-09	4.06E-08	1.12E-09	1.50E-08	1.87E-09	1.87E-09	9.27E-10	2.08E-08
1226	258815.28	4084205.56	1.40E-08	1.87E-07	2.77E-08	2.77E-08	1.54E-08	2.72E-07	2.13E-09	2.85E-08	4.32E-09	4.32E-09	2.38E-09	4.17E-08	1.16E-09	1.54E-08	1.92E-09	1.92E-09	9.52E-10	2.14E-08
1227	258837.72	4084213.87	1.44E-08	1.92E-07	2.84E-08	2.84E-08	1.58E-08	2.79E-07	2.18E-09	2.92E-08	4.43E-09	4.43E-09	2.44E-09	4.27E-08	1.18E-09	1.58E-08	1.97E-09	1.97E-09	9.76E-10	2.19E-08
1228	258860.15	4084222.17	1.47E-08	1.96E-07	2.90E-08	2.90E-08	1.61E-08	2.85E-07	2.22E-09	2.98E-08	4.52E-09	4.52E-09	2.49E-09	4.36E-08	1.21E-09	1.61E-08	2.01E-09	2.01E-09	9.96E-10	2.24E-08
1229	258882.59	4084230.48	1.49E-08	1.99E-07	2.95E-08	2.95E-08	1.64E-08	2.89E-07	2.26E-09	3.03E-08	4.60E-09	4.60E-09	2.53E-09	4.43E-08	1.23E-09	1.64E-08	2.05E-09	2.05E-09	1.01E-09	2.27E-08
1230	258905.02	4084238.78	1.51E-08	2.02E-07	2.99E-08	2.99E-08	1.67E-08	2.94E-07	2.30E-09	3.08E-08	4.67E-09	4.67E-09	2.57E-09	4.50E-08	1.25E-09	1.67E-08	2.08E-09	2.08E-09	1.03E-09	2.31E-08
1231	258927.46	4084247.09	1.53E-08	2.04E-07	3.02E-08	3.02E-08	1.68E-08	2.97E-07	2.32E-09	3.11E-08	4.72E-09	4.72E-09	2.59E-09	4.55E-08	1.26E-09	1.68E-08	2.10E-09	2.10E-09	1.04E-09	2.33E-08
1232	258949.89	4084255.4	1.54E-08	2.06E-07	3.04E-08	3.04E-08	1.70E-08	2.99E-07	2.34E-09	3.13E-08	4.75E-09	4.75E-09	2.61E-09	4.58E-08	1.27E-09	1.70E-08	2.11E-09	2.11E-09	1.05E-09	2.35E-08
1233	258982.19	4084285.5	1.59E-08	2.13E-07	3.15E-08	3.15E-08	1.75E-08	3.09E-07	2.42E-09	3.24E-08	4.91E-09	4.91E-09	2.70E-09	4.74E-08	1.31E-09	1.75E-08	2.19E-09	2.19E-09	1.08E-09	2.43E-08
1234	258992.05	4084307.3	1.63E-08	2.18E-07	3.23E-08	3.23E-08	1.80E-08	3.17E-07	2.48E-09	3.33E-08	5.04E-09	5.04E-09	2.77E-09	4.86E-08	1.35E-09	1.80E-08	2.24E-09	2.24E-09	1.11E-09	2.49E-08
1235	259001.91	4084329.09	1.67E-08	2.23E-07	3.30E-08	3.30E-08	1.84E-08	3.24E-07	2.53E-09	3.40E-08	5.15E-09	5.15E-09	2.83E-09	4.96E-08	1.38E-09	1.84E-08	2.29E-09	2.29E-09	1.13E-09	2.55E-08
1236	259011.77	4084350.89	1.70E-08	2.27E-07	3.36E-08	3.36E-08	1.87E-08	3.30E-07	2.58E-09	3.46E-08	5.24E-09	5.24E-09	2.88E-09	5.05E-08	1.40E-09	1.87E-08	2.33E-09	2.33E-09	1.15E-09	2.59E-08
1237	259021.63	4084372.69	1.72E-08	2.30E-07	3.40E-08	3.40E-08	1.90E-08	3.34E-07	2.61E-09	3.50E-08	5.31E-09	5.31E-09	2.92E-09	5.12E-08	1.42E-09	1.90E-08	2.36E-09	2.36E-09	1.17E-09	2.63E-08
1238	259031.5	4084394.48	1.74E-08	2.32E-07	3.43E-08	3.43E-08	1.91E-08	3.37E-07	2.64E-09	3.53E-08	5.36E-09	5.36E-09	2.95E-09	5.16E-08	1.43E-09	1.91E-08	2.38E-09	2.38E-09	1.18E-09	2.65E-08
1239	259041.36	4084416.28	1.74E-08	2.33E-07	3.45E-08	3.45E-08	1.92E-08	3.39E-07	2.65E-09	3.55E-08	5.38E-09	5.38E-09	2.96E-09	5.19E-08	1.44E-09	1.92E-08	2.40E-09	2.40E-09	1.19E-09	2.66E-08
1240	259051.22	4084438.08	1.74E-08	2.33E-07	3.45E-08	3.45E-08	1.92E-08	3.39E-07	2.65E-09	3.55E-08	5.38E-09	5.38E-09	2.96E-09	5.19E-08	1.44E-09	1.92E-08	2.40E-09	2.40E-09	1.19E-09	2.66E-08
1241	259061.08	4084459.87	1.74E-08	2.32E-07	3.43E-08	3.43E-08	1.91E-08	3.37E-07	2.64E-09	3.53E-08	5.36E-09	5.36E-09	2.95E-09	5.16E-08	1.43E-09	1.91E-08	2.38E-09	2.38E-09	1.18E-09	2.65E-08
1242	259070.94	4084481.67	1.72E-08	2.30E-07	3.40E-08	3.40E-08	1.90E-08	3.34E-07	2.61E-09	3.50E-08	5.31E-09	5.31E-09	2.92E-09	5.12E-08	1.42E-09	1.90E-08	2.36E-09	2.36E-09	1.17E-09	2.63E-08
1243	259080.8	4084503.47	1.70E-08	2.27E-07	3.36E-08	3.36E-08	1.87E-08	3.30E-07	2.58E-09	3.46E-08	5.24E-09	5.24E-09	2.88E-09	5.05E-08	1.40E-09	1.87E-08	2.33E-09	2.33E-09	1.15E-09	2.59E-08
1244	259090.66	4084525.26	1.67E-08	2.23E-07	3.30E-08	3.30E-08	1.84E-08	3.24E-07	2.53E-09	3.40E-08	5.15E-09	5.15E-09	2.83E-09	4.96E-08	1.38E-09	1.84E-08	2.29E-09	2.29E-09	1.13E-09	2.55E-08
1245	259100.52	4084547.06	1.63E-08	2.18E-07	3.23E-08	3.23E-08	1.80E-08	3.17E-07	2.48E-09	3.33E-08	5.04E-09	5.04E-09	2.77E-09	4.86E-08	1.35E-09	1.80E-08	2.24E-09	2.24E-09	1.11E-09	2.49E-08
1246	259110.38	4084568.86	1.59E-08	2.13E-07	3.15E-08	3.15E-08	1.76E-08	3.09E-07	2.42E-09	3.24E-08	4.92E-09	4.92E-09	2.70E-09	4.74E-08	1.31E-09	1.75E-08	2.19E-09	2.19E-09	1.08E-09	2.43E-08
1247	259120.24	4084590.65	1.55E-08	2.07E-07	3.06E-08	3.06E-08	1.71E-08	3.00E-07	2.35E-09	3.15E-08	4.78E-09	4.78E-09	2.63E-09	4.60E-08	1.28E-09	1.70E-08	2.13E-09	2.13E-09	1.05E-09	2.36E-08
1248	259130.1	4084612.45	1.50E-08	2.00E-07	2.96E-08	2.96E-08	1.65E-08	2.91E-07	2.27E-09	3.05E-08	4.62E-09	4.62E-09	2.54E-09	4.46E-08	1.24E-09	1.65E-08	2.06E-09	2.06E-09	1.02E-09	2.29E-08
1249	259139.97	4084634.25	1.45E-08	1.93E-07	2.86E-08	2.86E-08	1.59E-08	2.81E-07	2.20E-09	2.94E-08	4.46E-09	4.46E-09	2.45E-09	4.30E-08	1.19E-09	1.59E-08	1.99E-09	1.99E-09	9.83E-10	2.21E-08
1250	259149.83	4084656.04	1.39E-08	1.86E-07	2.75E-08	2.75E-08	1.53E-08	2.70E-07	2.11E-09	2.83E-08	4.29E-09	4.29E-09	2.36E-09	4.14E-08	1.15E-09	1.53E-08	1.91E-09	1.91E-09	9.46E-10	2.12E-08
1251	259159.69	4084677.84	1.34E-08	1.79E-07	2.64E-08	2.64E-08	1.47E-08	2.60E-07	2.03E-09	2.72E-08	4.13E-09	4.13E-09	2.27E-09	3.98E-08	1.10E-09	1.47E-08	1.84E-09	1.84E-09	9.09E-10	2.04E-08
1252	259169.55	4084699.64	1.28E-08	1.71E-07	2.53E-08	2.53E-08	1.41E-08	2.48E-07	1.94E-09	2.60E-08	3.95E-09	3.95E-09	2.17E-09	3.81E-08	1.06E-09	1.41E-08	1.76E-09	1.76E-09	8.70E-10	1.95E-08
1253	259179.41	4084721.43	1.22E-08	1.63E-07	2.41E-08	2.41E-08	1.34E-08	2.37E-07	1.85E-09	2.48E-08	3.76E-09	3.76E-09	2.07E-09	3.63E-08	1.00E-09	1.34E-08	1.67E-09	1.67E-09	8.28E-10	1.86E-08
1254	259189.27	4084743.23	1.16E-08	1.55E-07	2.29E-08	2.29E-08	1.28E-08	2.25E-07	1.76E-09	2.36E-08	3.58E-09	3.58E-09	1.97E-09	3.45E-08	9.57E-10	1.28E-08	1.59E-09	1.59E-09	7.89E-10	1.77E-08
1255	259199.13	4084765.03	1.10E-08	1.48E-07	2.18E-08	2.18E-08	1.22E-08	2.14E-07	1.68E-09	2.25E-08	3.41E-09	3.41E-09	1.87E-09	3.28E-08	9.11E-10	1.22E-08	1.52E-09	1.52E-09	7.51E-10	1.69E-08
1256	259208.99	4084786.82	1.05E-08	1.40E-07	2.07E-08	2.07E-08	1.15E-08	2.03E-07	1.59E-09	2.13E-08	3.23E-09	3.23E-09	1.78E-09	3.11E-08	8.63E-10	1.15E-08	1.44E-09	1.44E-09	7.11E-10	1.60E-08
1257	259218.85	4084808.62	9.94E-09	1.33E-07	1.96E-08	1.96E-08	1.09E-08	1.93E-07	1.51E-09	2.02E-08	3.07E-09	3.07E-09	1.69E-09	2.95E-08	8.19E-10	1.09E-08	1.36E-09	1.36E-09	6.75E-10	1.52E-08
1258	259228.71	4084830.42	9.44E-09	1.26E-07	1.87E-08	1.87E-08	1.04E-08	1.83E-07	1.43E-09	1.92E-08	2.91E-09	2.91E-09	1.60E-09	2.81E-08	7.78E-10	1.04E-08	1.30E-09	1.30E-09	6.41E-10	1.44E-08
1259	259238.58	4084852.21	8.97E-09	1.20E-07	1.77E-08	1.77E-08	9.89E-09	1.74E-07	1.36E-09	1.83E-08	2.77E-09	2.77E-09	1.52E-09	2.67E-08	7.40E-10	9.88E-09	1.23E-09	1.23E-09	6.10E-10	1.37E-08
1260	259248.44	4084874.01	8.53E-09	1.14E-07	1.69E-08	1.69E-08	9.40E-09	1.66E-07	1.30E-09	1.74E-08	2.63E-09	2.63E-09	1.45E-09	2.54E-08	7.03E-10	9.40E-09	1.17E-09	1.17E-09	5.80E-10	1.30E-08
1261	258321.71	4084022.82	4.62E-09	6.17E-08	9.13E-09	9.13E-09	5.09E-09	8.97E-08	7.01E-10	9.40E-09	1.43E-09	1.43E-09	7.84E-10	1.37E-08	3.81E-10	5.09E-09	6.34E-10	6.34E-10	3.14E-10	7.05E-09
1262	258297.38	4084023.82	4.44E-09	5.94E-08	8.78E-09	8.78E-09	4.90E-09	8.63E-08	6.74E-10	9.04E-09	1.37E-09	1.37E-09	7.54E-10	1.32E-08	3.66E-10	4.89E-09	6.10E-10	6.10E-10	3.02E-10	6.78E-09
1263	258273.05	4084024.82	4.28E-09	5.71E-08	8.45E-09	8.45E-09	4.71E-09	8.30E-08	6.49E-10	8.70E-09	1.32E-09	1.32E-09	7.25E-10	1.27E-08	3.52E-10	4.71E-09	5.87E-10	5.87E-10	2.91E-10	6.53E-09
1264	258248.72	4084025.82	4.11E-09	5.49E-08	8.13E-09	8.13E-09	4.53E-09	7.99E-08	6.24E-10	8.37E-09	1.27E-09	1.27E-09	6.98E-10	1.22E-08	3.39E-10	4.53E-09	5.65E-10	5.65E-10	2.80E-10	6.28E-09
1265	258224.38	4084026.82	3.96E-09	5.29E-08	7.82E-09	7.82E-09	4.36E-09	7.68E-08	6.01E-10	8.05E-09	1.22E-09	1.22E-09	6.71E-10	1.18E-08	3.26E-10	4.36E-09	5.43E-10	5.43E-10	2.69E-10	6.04E-09
1266	258200.05	4084027.82	3.81E-09	5.08E-08	7.52E-09	7.52E-09	4.19E-09	7.39E-08	5.78E-10	7.74E-09	1.17E-09	1.17E-09	6.46E-10	1.13E-08	3.14E-10	4.19E-09	5.22E-10	5.22E-10	2.59E-10	5.81E-09
1267	258175.72	4084028.82	3.66E-09	4.89E-08	7.23E-09	7.23E-09	4.03E-09	7.10E-08	5.55E-10	7.45E-09	1.13E-09	1.13E-09	6.21E-10	1.09E-08	3.02E-10	4.03E-09	5.02E-10	5.02E-10	2.49E-10	5.58E-09
1268	258151.39	4084029.82	3.52E-09	4.70E-08	6.95E-09	6.95E-09	3.88E-09	6.83E-08	5.34E-10	7.16E-09	1.09E-09	1.09E-09	5.97E-10	1.05E-08	2.90E-10	3.87E-09	4.83E-10	4.83E-10	2.39E-10	5.37E-09
1269	258127.06	4084030.82	3.38E-09	4.52E-08	6.68E-09	6.68E-09	3.73E-09	6.56E-08	5.13E-10	6.88E-09	1.04E-09	1.04E-09	5.74E-10	1.01E-08	2.79E-10	3.72E-09	4.64E-10	4.64E-10	2.30E-10	5.16E-09
1270	258102.73	4084031.82	3.25E-09	4.34E-08	6.42E-09	6.42E-09	3.58E-09	6.31E-08	4.93E-10	6.61E-09	1.00E-09	1.00E-09	5.51E-10	9.66E-09	2.68E-10	3.58E-09	4.46E-10	4.46E-10	2.21E-10	4.96E-09
1271	258078.39	4084032.82	3.12E-09	4.17E-08	6.17E-09	6.17E-09	3.44E-09	6.06E-08	4.74E-10	6.35E-09	9.63E-10	9.63E-10	5.30E-10	9.28E-09	2.57E-10	3.44E-09	4.29E-10	4.29E-10	2.12E-10	4.76E-09
1272	258054.06	4084033.82	3.00E-09	4.01E-08	5.93E-09	5.93E-09	3.31E-09	5.82E-08	4.55E-10	6.10E-09	9.26E-10	9.26E-10	5.09E-10	8.92E-09	2.47E-10	3.30E-09	4.12E-10	4.12E-10	2.04E-10	4.58E-09
1273	258029.73	4084034.82	2.88E-09	3.85E-08	5.70E-09	5.70E-09	3.18E-09	5.60E-08	4.38E-10	5.87E-09	8.90E-10	8.90E-10	4.89E-10	8.58E-09	2.38E-10	3.18E-09	3.96E-10	3.96E-10	1.96E-10	4.40E-09
1274	258005.4	4084035.82	2.77E-09	3.71E-08	5.48E-09	5.48E-09	3.06E-09	5.38E-08	4.21E-10	5.64E-09	8.56E-10	8.56E-10	4.71E-10	8.25E-09	2.29E-10	3.05E-09	3.81E-10	3.81E-10	1.88E-10	4.23E-09
1275	257981.07	4084036.82	2.67E-09	3.57E-08	5.28E-09	5.28E-09	2.94E-09	5.19E-08	4.05E-10	5.44E-09	8.24E-10	8.24E-10	4.53E-10	7.94E-09	2.20E-10	2.94E-09	3.67E-10	3.67E-10	1.82E-10	4.08E-09
1276	257956.73	4084037.82	2.57E-09	3.44E-08	5.09E-09	5.09E-09	2.84E-09	5.00E-08	3.91E-10	5.24E-09	7.94E-10	7.94E-10	4.37E-10	7.65E-09	2.12E-10	2.83E-09	3.53E-10	3.53E-10	1.75E-10	3.93E-09
1277	257932.4	4084038.82	2.48E-09	3.32E-08	4.91E-09	4.91E-09	2.74E-09	4.82E-08	3.77E-10	5.06E-09	7.67E-10	7.67E-10	4.21E-10	7.39E-09	2.05E-10	2.74E-09	3.41E-10	3.41E-10	1.69E-10	3.79E-09
1278	257908.07	4084039.82	2.40E-09	3.21E-08	4.75E-09	4.75E-09	2.65E-09	4.66E-08	3.65E-10	4.89E-09	7.41E-10	7.41E-10	4.08E-10	7.14E-09	1.98E-10	2.64E-09	3.30E-10	3.30E-10	1.63E-10	3.67E-09
1279	257883.74	4084040.83	2.33E-09	3.11E-08	4.60E-09	4.60E-09	2.56E-09	4.52E-08	3.53E-10	4.73E-09	7.18E-10	7.18E-10	3.95E-10	6.92E-09	1.92E-10	2.56E-09	3.19E-10	3.19E-10	1.58E-10	3.55E-09
1280	257859.41	4084041.83	2.26E-09	3.01E-08	4.46E-09	4.46E-09	2.49E-09	4.38E-08	3.42E-10	4.59E-09	6.96E-10	6.96E-10	3.83E-10	6.71E-09	1.86E-10	2.48E-09	3.10E-10	3.10E-10	1.53E-10	3.44E-09
1281	257835.08	4084042.83	2.19E-09	2.93E-08	4.33E-09	4.33E-09	2.42E-09	4.26E-08	3.33E-10	4.46E-09	6.77E-10	6.77E-10	3.72E-10	6.52E-09	1.81E-10	2.41E-09	3.01E-10	3.01E-10	1.49E-10	3.35E-09
1282	257810.74	4084043.83	2.13E-09	2.85E-08	4.22E-09	4.22E-09	2.35E-09	4.14E-08	3.24E-10	4.34E-09	6.59E-10	6.59E-10	3.62E-10	6.35E-09	1.76E-10	2.35E-09	2.93E-10	2.93E-10	1.45E-10	3.26E-09
1283	257786.41	4084044.83	2.08E-09	2.78E-08	4.11E-09	4.11E-09	2.29E-09	4.04E-08	3.16E-10	4.24E-09	6.42E-10	6.42E-10	3.53E-10	6.19E-09	1.72E-10	2.29E-09	2.86E-10	2.86E-10	1.41E-10	3.18E-09
1284	257762.08	4084045.83	2.03E-09	2.72E-08	4.02E-09	4.02E-09	2.24E-09	3.95E-08	3.09E-10	4.14E-09	6.27E-10	6.27E-10	3.45E-10	6.05E-09	1.68E-10	2.24E-09	2.79E-10	2.79E-10	1.38E-10	3.10E-09
1285	257737.75	4084046.83	1.99E-09	2.66E-08	3.93E-09	3.93E-09	2.19E-09	3.86E-08	3.02E-10	4.05E-09	6.14E-10	6.14E-10	3.38E-10	5.92E-09	1.64E-10	2.19E-09	2.73E-10	2.73E-10	1.35E-10	3.04E-09
1286	257713.42	4084047.83	1.95E-09	2.60E-08	3.85E-09	3.85E-09	2.15E-09	3.78E-08	2.96E-10	3.96E-09	6.01E-10	6.01E-10	3.31E-10	5.79E-09	1.61E-10	2.15E-09	2.67E-10	2.67E-10	1.32E-10	2.97E-09
1287	257689.08	4084048.83	1.91E-09	2.55E-08	3.78E-09	3.78E-09	2.11E-09	3.71E-08	2.90E-10	3.89E-09	5.90E-10	5.90E-10	3.24E-10	5.68E-09	1.58E-10	2.10E-09	2.62E-10	2.62E-10	1.30E-10	2.92E-09
1288	257664.75	4084049.83	1.87E-09	2.50E-08	3.70E-09	3.70E-09	2.06E-09	3.64E-08	2.84E-10	3.81E-09	5.78E-10	5.78E-10	3.18E-10	5.57E-09	1.54E-10	2.06E-09	2.57E-10	2.57E-10	1.27E-10	2.86E-09
1289	257640.42	4084050.83	1.84E-09	2.46E-08	3.63E-09	3.63E-09	2.03E-09	3.57E-08	2.79E-10	3.74E-09	5.67E-10	5.67E-10	3.12E-10	5.47E-09	1.52E-10	2.02E-09	2.52E-10	2.52E-10	1.25E-10	2.81E-09
1290	257616.09	4084051.83	1.80E-09	2.41E-08	3.56E-09	3.56E-09	1.99E-09	3.50E-08	2.74E-10	3.67E-09	5.56E-10	5.56E-10	3.06E-10	5.36E-09	1.49E-10	1.98E-09	2.47E-10	2.47E-10	1.23E-10	2.75E-09
1291	257591.76	4084052.83	1.77E-09	2.36E-08	3.49E-09	3.49E-09	1.95E-09	3.43E-08	2.68E-10	3.60E-09	5.45E-10	5.45E-10	3.00E-10	5.25E-09	1.46E-10	1.95E-09	2.43E-10	2.43E-10	1.20E-10	2.70E-09
1292	257567.43	4084053.83	1.73E-09	2.31E-08	3.42E-09	3.42E-09	1.91E-09	3.36E-08	2.63E-10	3.52E-09	5.34E-10	5.34E-10	2.93E-10	5.14E-09	1.43E-10	1.90E-09	2.38E-10	2.38E-10	1.18E-10	2.64E-09
1293	257543.09	4084054.83	1.69E-09	2.26E-08	3.35E-09	3.35E-09	1.87E-09	3.29E-08	2.57E-10	3.44E-09	5.22E-10	5.22E-10	2.87E-10	5.03E-09	1.40E-10	1.86E-09	2.32E-10	2.32E-10	1.15E-10	2.58E-09
1294	257518.76	4084055.83	1.66E-09	2.21E-08	3.27E-09	3.27E-09	1.82E-09	3.21E-08	2.51E-10	3.37E-09	5.11E-10	5.11E-10	2.81E-10	4.92E-09	1.36E-10	1.82E-09	2.27E-10	2.27E-10	1.13E-10	2.53E-09

1295	258336.22	4083831.4	2.92E-09	3.90E-08	5.78E-09	5.78E-09	3.22E-09	5.67E-08	4.44E-10	5.95E-09	9.02E-10	9.02E-10	4.96E-10	8.69E-09	2.41E-10	3.22E-09	4.01E-10	4.01E-10	1.99E-10	4.46E-09
1296	258358.94	4083839.81	3.07E-09	4.11E-08	6.08E-09	6.08E-09	3.39E-09	5.97E-08	4.67E-10	6.26E-09	9.49E-10	9.49E-10	5.22E-10	9.14E-09	2.53E-10	3.39E-09	4.22E-10	4.22E-10	2.09E-10	4.69E-09
1297	258381.66	4083848.22	3.24E-09	4.33E-08	6.40E-09	6.40E-09	3.57E-09	6.29E-08	4.92E-10	6.59E-09	9.99E-10	9.99E-10	5.49E-10	9.63E-09	2.67E-10	3.57E-09	4.45E-10	4.45E-10	2.20E-10	4.94E-09
1298	258404.38	4083856.64	3.42E-09	4.56E-08	6.75E-09	6.75E-09	3.76E-09	6.63E-08	5.19E-10	6.95E-09	1.05E-09	1.05E-09	5.80E-10	1.02E-08	2.82E-10	3.76E-09	4.69E-10	4.69E-10	2.32E-10	5.21E-09
1299	258427.1	4083865.05	3.61E-09	4.82E-08	7.13E-09	7.13E-09	3.98E-09	7.01E-08	5.48E-10	7.34E-09	1.11E-09	1.11E-09	6.12E-10	1.07E-08	2.97E-10	3.97E-09	4.95E-10	4.95E-10	2.45E-10	5.51E-09
1300	258449.82	4083873.46	3.82E-09	5.10E-08	7.54E-09	7.54E-09	4.20E-09	7.41E-08	5.79E-10	7.77E-09	1.18E-09	1.18E-09	6.47E-10	1.13E-08	3.15E-10	4.20E-09	5.24E-10	5.24E-10	2.59E-10	5.82E-09
1301	258472.54	4083881.87	4.04E-09	5.40E-08	7.98E-09	7.98E-09	4.45E-09	7.84E-08	6.13E-10	8.22E-09	1.25E-09	1.25E-09	6.85E-10	1.20E-08	3.33E-10	4.45E-09	5.55E-10	5.55E-10	2.74E-10	6.16E-09
1302	258495.26	4083890.28	4.27E-09	5.71E-08	8.45E-09	8.45E-09	4.71E-09	8.30E-08	6.49E-10	8.70E-09	1.32E-09	1.32E-09	7.25E-10	1.27E-08	3.52E-10	4.71E-09	5.87E-10	5.87E-10	2.90E-10	6.52E-09
1303	258517.98	4083898.69	4.52E-09	6.04E-08	8.94E-09	8.94E-09	4.98E-09	8.78E-08	6.87E-10	9.21E-09	1.40E-09	1.40E-09	7.67E-10	1.35E-08	3.73E-10	4.98E-09	6.21E-10	6.21E-10	3.07E-10	6.90E-09
1304	258540.7	4083907.11	4.79E-09	6.39E-08	9.46E-09	9.46E-09	5.27E-09	9.29E-08	7.26E-10	9.74E-09	1.48E-09	1.48E-09	8.12E-10	1.42E-08	3.94E-10	5.27E-09	6.57E-10	6.57E-10	3.25E-10	7.30E-09
1305	258563.42	4083915.52	5.06E-09	6.76E-08	1.00E-08	1.00E-08	5.58E-09	9.83E-08	7.68E-10	1.03E-08	1.56E-09	1.56E-09	8.59E-10	1.51E-08	4.17E-10	5.57E-09	6.95E-10	6.95E-10	3.44E-10	7.72E-09
1306	258586.14	4083923.93	5.35E-09	7.14E-08	1.06E-08	1.06E-08	5.89E-09	1.04E-07	8.12E-10	1.09E-08	1.65E-09	1.65E-09	9.07E-10	1.59E-08	4.41E-10	5.89E-09	7.34E-10	7.34E-10	3.63E-10	8.16E-09
1307	258608.86	4083932.34	5.65E-09	7.54E-08	1.12E-08	1.12E-08	6.22E-09	1.10E-07	8.57E-10	1.15E-08	1.74E-09	1.74E-09	9.58E-10	1.68E-08	4.65E-10	6.22E-09	7.75E-10	7.75E-10	3.84E-10	8.61E-09
1308	258631.58	4083940.75	5.95E-09	7.95E-08	1.18E-08	1.18E-08	6.56E-09	1.16E-07	9.04E-10	1.21E-08	1.84E-09	1.84E-09	1.01E-09	1.77E-08	4.91E-10	6.56E-09	8.17E-10	8.17E-10	4.05E-10	9.09E-09
1309	258654.3	4083949.17	6.27E-09	8.37E-08	1.24E-08	1.24E-08	6.91E-09	1.22E-07	9.52E-10	1.28E-08	1.93E-09	1.93E-09	1.06E-09	1.86E-08	5.17E-10	6.90E-09	8.61E-10	8.61E-10	4.26E-10	9.57E-09
1310	258677.02	4083957.58	6.59E-09	8.81E-08	1.30E-08	1.30E-08	7.26E-09	1.28E-07	1.00E-09	1.34E-08	2.03E-09	2.03E-09	1.12E-09	1.96E-08	5.43E-10	7.26E-09	9.05E-10	9.05E-10	4.48E-10	1.01E-08
1311	258699.74	4083965.99	6.92E-09	9.25E-08	1.37E-08	1.37E-08	7.63E-09	1.34E-07	1.05E-09	1.41E-08	2.14E-09	2.14E-09	1.17E-09	2.06E-08	5.71E-10	7.62E-09	9.50E-10	9.50E-10	4.70E-10	1.06E-08
1312	258722.46	4083974.4	7.26E-09	9.69E-08	1.43E-08	1.43E-08	7.99E-09	1.41E-07	1.10E-09	1.48E-08	2.24E-09	2.24E-09	1.23E-09	2.16E-08	5.98E-10	7.99E-09	9.96E-10	9.96E-10	4.93E-10	1.11E-08
1313	258745.18	4083982.81	7.59E-09	1.01E-07	1.50E-08	1.50E-08	8.37E-09	1.47E-07	1.15E-09	1.54E-08	2.34E-09	2.34E-09	1.29E-09	2.26E-08	6.26E-10	8.36E-09	1.04E-09	1.04E-09	5.16E-10	1.16E-08
1314	258767.9	4083991.22	7.93E-09	1.06E-07	1.57E-08	1.57E-08	8.73E-09	1.54E-07	1.20E-09	1.61E-08	2.45E-09	2.45E-09	1.34E-09	2.36E-08	6.53E-10	8.73E-09	1.09E-09	1.09E-09	5.39E-10	1.21E-08
1315	258790.62	4083999.64	8.26E-09	1.10E-07	1.63E-08	1.63E-08	9.10E-09	1.60E-07	1.25E-09	1.68E-08	2.55E-09	2.55E-09	1.40E-09	2.46E-08	6.81E-10	9.09E-09	1.13E-09	1.13E-09	5.61E-10	1.26E-08
1316	258813.34	4084008.05	8.59E-09	1.15E-07	1.70E-08	1.70E-08	9.46E-09	1.67E-07	1.30E-09	1.75E-08	2.65E-09	2.65E-09	1.46E-09	2.55E-08	7.08E-10	9.46E-09	1.18E-09	1.18E-09	5.84E-10	1.31E-08
1317	258836.06	4084016.46	8.91E-09	1.19E-07	1.76E-08	1.76E-08	9.82E-09	1.73E-07	1.35E-09	1.81E-08	2.75E-09	2.75E-09	1.51E-09	2.65E-08	7.34E-10	9.81E-09	1.22E-09	1.22E-09	6.06E-10	1.36E-08
1318	258858.78	4084024.87	9.23E-09	1.23E-07	1.82E-08	1.82E-08	1.02E-08	1.79E-07	1.40E-09	1.88E-08	2.85E-09	2.85E-09	1.57E-09	2.74E-08	7.61E-10	1.02E-08	1.27E-09	1.27E-09	6.27E-10	1.41E-08
1319	258881.5	4084033.28	9.53E-09	1.27E-07	1.88E-08	1.88E-08	1.05E-08	1.85E-07	1.45E-09	1.94E-08	2.94E-09	2.94E-09	1.62E-09	2.83E-08	7.86E-10	1.05E-08	1.31E-09	1.31E-09	6.48E-10	1.45E-08
1320	258904.22	4084041.7	9.82E-09	1.31E-07	1.94E-08	1.94E-08	1.08E-08	1.91E-07	1.49E-09	2.00E-08	3.03E-09	3.03E-09	1.67E-09	2.92E-08	8.10E-10	1.08E-08	1.35E-09	1.35E-09	6.67E-10	1.50E-08
1321	258926.94	4084050.11	1.01E-08	1.35E-07	2.00E-08	2.00E-08	1.11E-08	1.96E-07	1.53E-09	2.05E-08	3.12E-09	3.12E-09	1.71E-09	3.00E-08	8.32E-10	1.11E-08	1.39E-09	1.39E-09	6.86E-10	1.54E-08
1322	258949.66	4084058.52	1.03E-08	1.38E-07	2.04E-08	2.04E-08	1.14E-08	2.01E-07	1.57E-09	2.10E-08	3.19E-09	3.19E-09	1.75E-09	3.07E-08	8.51E-10	1.14E-08	1.42E-09	1.42E-09	7.02E-10	1.58E-08
1323	258972.38	4084066.93	1.06E-08	1.41E-07	2.09E-08	2.09E-08	1.16E-08	2.05E-07	1.60E-09	2.15E-08	3.26E-09	3.26E-09	1.79E-09	3.14E-08	8.70E-10	1.16E-08	1.45E-09	1.45E-09	7.18E-10	1.61E-08
1324	258995.1	4084075.34	1.08E-08	1.44E-07	2.13E-08	2.13E-08	1.19E-08	2.09E-07	1.63E-09	2.19E-08	3.32E-09	3.32E-09	1.83E-09	3.20E-08	8.88E-10	1.19E-08	1.48E-09	1.48E-09	7.32E-10	1.64E-08
1325	259017.82	4084083.75	1.10E-08	1.46E-07	2.17E-08	2.17E-08	1.21E-08	2.13E-07	1.66E-09	2.23E-08	3.38E-09	3.38E-09	1.86E-09	3.26E-08	9.03E-10	1.21E-08	1.50E-09	1.50E-09	7.45E-10	1.67E-08
1326	259040.54	4084092.17	1.11E-08	1.49E-07	2.20E-08	2.20E-08	1.22E-08	2.16E-07	1.69E-09	2.26E-08	3.43E-09	3.43E-09	1.89E-09	3.31E-08	9.16E-10	1.22E-08	1.53E-09	1.53E-09	7.55E-10	1.70E-08
1327	259063.26	4084100.58	1.12E-08	1.50E-07	2.22E-08	2.22E-08	1.24E-08	2.18E-07	1.71E-09	2.29E-08	3.47E-09	3.47E-09	1.91E-09	3.34E-08	9.27E-10	1.24E-08	1.54E-09	1.54E-09	7.64E-10	1.72E-08
1328	259085.98	4084108.99	1.13E-08	1.52E-07	2.24E-08	2.24E-08	1.25E-08	2.20E-07	1.72E-09	2.31E-08	3.50E-09	3.50E-09	1.92E-09	3.37E-08	9.35E-10	1.25E-08	1.56E-09	1.56E-09	7.71E-10	1.73E-08
1329	259118.68	4084139.48	1.17E-08	1.57E-07	2.32E-08	2.32E-08	1.29E-08	2.28E-07	1.78E-09	2.39E-08	3.62E-09	3.62E-09	1.99E-09	3.49E-08	9.68E-10	1.29E-08	1.61E-09	1.61E-09	7.98E-10	1.79E-08
1330	259128.67	4084161.55	1.21E-08	1.61E-07	2.38E-08	2.38E-08	1.33E-08	2.34E-07	1.83E-09	2.45E-08	3.72E-09	3.72E-09	2.04E-09	3.58E-08	9.94E-10	1.33E-08	1.65E-09	1.65E-09	8.19E-10	1.84E-08
1331	259138.66	4084183.62	1.23E-08	1.65E-07	2.44E-08	2.44E-08	1.36E-08	2.39E-07	1.87E-09	2.51E-08	3.80E-09	3.80E-09	2.09E-09	3.67E-08	1.02E-09	1.36E-08	1.69E-09	1.69E-09	8.38E-10	1.88E-08
1332	259148.64	4084205.7	1.26E-08	1.68E-07	2.48E-08	2.48E-08	1.39E-08	2.44E-07	1.91E-09	2.56E-08	3.88E-09	3.88E-09	2.13E-09	3.74E-08	1.04E-09	1.38E-08	1.73E-09	1.73E-09	8.54E-10	1.92E-08
1333	259158.63	4084227.77	1.28E-08	1.71E-07	2.52E-08	2.52E-08	1.41E-08	2.48E-07	1.94E-09	2.60E-08	3.94E-09	3.94E-09	2.17E-09	3.80E-08	1.05E-09	1.41E-08	1.75E-09	1.75E-09	8.68E-10	1.95E-08
1334	259168.61	4084249.84	1.29E-08	1.73E-07	2.56E-08	2.56E-08	1.42E-08	2.51E-07	1.96E-09	2.63E-08	3.99E-09	3.99E-09	2.19E-09	3.84E-08	1.07E-09	1.42E-08	1.78E-09	1.78E-09	8.79E-10	1.97E-08
1335	259178.6	4084271.92	1.30E-08	1.74E-07	2.58E-08	2.58E-08	1.44E-08	2.53E-07	1.98E-09	2.65E-08	4.02E-09	4.02E-09	2.21E-09	3.88E-08	1.08E-09	1.44E-08	1.79E-09	1.79E-09	8.86E-10	1.99E-08
1336	259188.59	4084293.99	1.31E-08	1.75E-07	2.59E-08	2.59E-08	1.44E-08	2.54E-07	1.99E-09	2.67E-08	4.04E-09	4.04E-09	2.22E-09	3.90E-08	1.08E-09	1.44E-08	1.80E-09	1.80E-09	8.91E-10	2.00E-08
1337	259198.57	4084316.06	1.31E-08	1.75E-07	2.59E-08	2.59E-08	1.45E-08	2.55E-07	1.99E-09	2.67E-08	4.05E-09	4.05E-09	2.23E-09	3.90E-08	1.08E-09	1.44E-08	1.80E-09	1.80E-09	8.92E-10	2.00E-08
1338	259208.56	4084338.14	1.31E-08	1.75E-07	2.59E-08	2.59E-08	1.44E-08	2.54E-07	1.99E-09	2.66E-08	4.04E-09	4.04E-09	2.22E-09	3.89E-08	1.08E-09	1.44E-08	1.80E-09	1.80E-09	8.90E-10	2.00E-08
1339	259218.54	4084360.21	1.30E-08	1.74E-07	2.57E-08	2.57E-08	1.43E-08	2.53E-07	1.98E-09	2.65E-08	4.02E-09	4.02E-09	2.21E-09	3.87E-08	1.07E-09	1.43E-08	1.79E-09	1.79E-09	8.84E-10	1.99E-08
1340	259228.53	4084382.28	1.29E-08	1.72E-07	2.55E-08	2.55E-08	1.42E-08	2.50E-07	1.96E-09	2.62E-08	3.98E-09	3.98E-09	2.19E-09	3.83E-08	1.06E-09	1.42E-08	1.77E-09	1.77E-09	8.76E-10	1.97E-08
1341	259238.52	4084404.36	1.27E-08	1.70E-07	2.52E-08	2.52E-08	1.40E-08	2.47E-07	1.93E-09	2.59E-08	3.93E-09	3.93E-09	2.16E-09	3.79E-08	1.05E-09	1.40E-08	1.75E-09	1.75E-09	8.65E-10	1.94E-08
1342	259248.5	4084426.43	1.26E-08	1.68E-07	2.49E-08	2.49E-08	1.39E-08	2.44E-07	1.91E-09	2.56E-08	3.88E-09	3.88E-09	2.13E-09	3.74E-08	1.04E-09	1.39E-08	1.73E-09	1.73E-09	8.55E-10	1.92E-08
1343	259258.49	4084448.5	1.24E-08	1.65E-07	2.44E-08	2.44E-08	1.36E-08	2.40E-07	1.87E-09	2.51E-08	3.81E-09	3.81E-09	2.10E-09	3.67E-08	1.02E-09	1.36E-08	1.70E-09	1.70E-09	8.39E-10	1.89E-08
1344	259268.48	4084470.58	1.21E-08	1.62E-07	2.39E-08	2.39E-08	1.33E-08	2.35E-07	1.84E-09	2.46E-08	3.73E-09	3.73E-09	2.05E-09	3.60E-08	9.97E-10	1.33E-08	1.66E-09	1.66E-09	8.22E-10	1.85E-08
1345	259278.46	4084492.65	1.18E-08	1.58E-07	2.34E-08	2.34E-08	1.30E-08	2.29E-07	1.79E-09	2.40E-08	3.65E-09	3.65E-09	2.00E-09	3.51E-08	9.74E-10	1.30E-08	1.62E-09	1.62E-09	8.03E-10	1.80E-08
1346	259288.45	4084514.72	1.15E-08	1.54E-07	2.28E-08	2.28E-08	1.27E-08	2.24E-07	1.75E-09	2.34E-08	3.56E-09	3.56E-09	1.95E-09	3.43E-08	9.50E-10	1.27E-08	1.58E-09	1.58E-09	7.83E-10	1.76E-08
1347	259298.43	4084536.8	1.12E-08	1.50E-07	2.22E-08	2.22E-08	1.24E-08	2.18E-07	1.70E-09	2.28E-08	3.46E-09	3.46E-09	1.90E-09	3.33E-08	9.24E-10	1.23E-08	1.54E-09	1.54E-09	7.62E-10	1.71E-08
1348	259308.42	4084558.87	1.09E-08	1.46E-07	2.15E-08	2.15E-08	1.20E-08	2.11E-07	1.65E-09	2.22E-08	3.36E-09	3.36E-09	1.85E-09	3.24E-08	8.98E-10	1.20E-08	1.50E-09	1.50E-09	7.40E-10	1.66E-08
1349	259318.41	4084580.94	1.06E-08	1.41E-07	2.09E-08	2.09E-08	1.16E-08	2.05E-07	1.60E-09	2.15E-08	3.26E-09	3.26E-09	1.79E-09	3.14E-08	8.71E-10	1.16E-08	1.45E-09	1.45E-09	7.18E-10	1.61E-08
1350	259328.39	4084603.02	1.02E-08	1.36E-07	2.02E-08	2.02E-08	1.13E-08	1.98E-07	1.55E-09	2.08E-08	3.15E-09	3.15E-09	1.73E-09	3.04E-08	8.42E-10	1.13E-08	1.40E-09	1.40E-09	6.94E-10	1.56E-08
1351	259338.38	4084625.09	9.86E-09	1.32E-07	1.95E-08	1.95E-08	1.09E-08	1.91E-07	1.50E-09	2.01E-08	3.04E-09	3.04E-09	1.67E-09	2.93E-08	8.13E-10	1.09E-08	1.35E-09	1.35E-09	6.70E-10	1.50E-08
1352	259348.36	4084647.16	9.49E-09	1.27E-07	1.88E-08	1.88E-08	1.05E-08	1.84E-07	1.44E-09	1.93E-08	2.93E-09	2.93E-09	1.61E-09	2.82E-08	7.82E-10	1.05E-08	1.30E-09	1.30E-09	6.45E-10	1.45E-08
1353	259358.35	4084669.24	9.11E-09	1.22E-07	1.80E-08	1.80E-08	1.00E-08	1.77E-07	1.38E-09	1.85E-08	2.81E-09	2.81E-09	1.55E-09	2.71E-08	7.51E-10	1.00E-08	1.25E-09	1.25E-09	6.19E-10	1.39E-08
1354	259368.34	4084691.31	8.73E-09	1.17E-07	1.73E-08	1.73E-08	9.62E-09	1.69E-07	1.32E-09	1.78E-08	2.69E-09	2.69E-09	1.48E-09	2.60E-08	7.20E-10	9.61E-09	1.20E-09	1.20E-09	5.93E-10	1.33E-08
1355	259378.32	4084713.38	8.35E-09	1.12E-07	1.65E-08	1.65E-08	9.20E-09	1.62E-07	1.27E-09	1.70E-08	2.58E-09	2.58E-09	1.42E-09	2.48E-08	6.89E-10	9.20E-09	1.15E-09	1.15E-09	5.68E-10	1.27E-08
1356	259388.31	4084735.46	7.99E-09	1.07E-07	1.58E-08	1.58E-08	8.80E-09	1.55E-07	1.21E-09	1.63E-08	2.46E-09	2.46E-09	1.36E-09	2.38E-08	6.59E-10	8.80E-09	1.10E-09	1.10E-09	5.43E-10	1.22E-08
1357	259398.29	4084757.53	7.64E-09	1.02E-07	1.51E-08	1.51E-08	8.42E-09	1.48E-07	1.16E-09	1.56E-08	2.36E-09	2.36E-09	1.30E-09	2.27E-08	6.30E-10	8.42E-09	1.05E-09	1.05E-09	5.19E-10	1.17E-08
1358	259408.28	4084779.6	7.32E-09	9.78E-08	1.45E-08	1.45E-08	8.07E-09	1.42E-07	1.11E-09	1.49E-08	2.26E-09	2.26E-09	1.24E-09	2.18E-08	6.03E-10	8.06E-09	1.01E-09	1.01E-09	4.97E-10	1.12E-08
1359	259418.27	4084801.68	7.02E-09	9.38E-08	1.39E-08	1.39E-08	7.74E-09	1.36E-07	1.07E-09	1.43E-08	2.17E-09	2.17E-09	1.19E-09	2.09E-08	5.79E-10	7.73E-09	9.64E-10	9.64E-10	4.77E-10	1.07E-08
1360	259428.25	4084823.75	6.74E-09	9.00E-08	1.33E-08	1.33E-08	7.43E-09	1.31E-07	1.02E-09	1.37E-08	2.08E-09	2.08E-09	1.14E-09	2.00E-08	5.56E-10	7.42E-09	9.25E-10	9.25E-10	4.58E-10	1.03E-08
1361	259438.24	4084845.82	6.47E-09	8.65E-08	1.28E-08	1.28E-08	7.13E-09	1.26E-07	9.82E-10	1.32E-08	2.00E-09	2.00E-09	1.10E-09	1.92E-08	5.34E-10	7.13E-09	8.89E-10	8.89E-10	4.40E-10	9.88E-09
1362	259448.23	4084867.9	6.21E-09	8.30E-08	1.23E-08	1.23E-08	6.84E-09	1.21E-07	9.43E-10	1.26E-08	1.92E-09	1.92E-09	1.05E-09	1.85E-08	5.12E-10	6.84E-09	8.53E-10	8.53E-10	4.22E-10	9.48E-09
1363	258313.5	4083822.99	2.78E-09	3.72E-08	5.50E-09	5.50E-09	3.07E-09	5.41E-08	4.23E-10	5.67E-09	8.59E-10	8.59E-10	4.72E-10	8.28E-09	2.30E-10	3.07E-09	3.82E-10	3.82E-10	1.89E-10	4.25E-09
1364	258289.16	4083823.99	2.70E-09	3.61E-08	5.34E-09	5.34E-09	2.98E-09	5.25E-08	4.10E-10	5.50E-09	8.34E-10	8.34E-10	4.58E-10	8.04E-09	2.23E-10	2.98E-09	3.71E-10	3.71E-10	1.84E-10	4.12E-09
1365	258264.83	4083824.99	2.62E-09	3.50E-08	5.19E-09	5.19E-09	2.89E-09	5.09E-08	3.98E-10	5.34E-09	8.10E-10	8.10E-10	4.45E-10	7.80E-09	2.16E-10	2.89E-09	3.60E-10	3.60E-10	1.78E-10	4.00E-09
1366	258240.5	4083825.99	2.55E-09	3.40E-08	5.04E-09	5.04E-09	2.81E-09	4.95E-08	3.87E-10	5.18E-09	7.86E-10	7.86E-10	4.32E-10	7.58E-09	2.10E-10	2.81E-09	3.50E-10	3.50E-10	1.73E-10	3.89E-09
1367	258216.17	4083826.99	2.47E-09	3.30E-08	4.89E-09	4.89E-09	2.73E-09	4.80E-08	3.75E-10	5.03E-09	7.63E-10	7.63E-10	4.20E-10	7.35E-09	2.04E-10	2.72E-09	3.40E-10	3.40E-10	1.68E-10	3.77E-09
1368	258191.84	4083827.99	2.40E-09	3.20E-08	4.74E-09	4.74E-09	2.64E-09	4.66E-08	3.64E-10	4.88E-09	7.40E-10	7.40E-10	4.07E-10	7.13E-09	1.98E-10	2.64E-09	3.29E-10	3.29E-10	1.63E-10	3.66E-09
1369	258167.51	4083828.99	2.33E-09	3.11E-08	4.60E-09	4.60E-09	2.56E-09	4.52E-08	3.53E-10	4.74E-09	7.18E-10	7.18E-10	3.95E-10	6.92E-09	1.92E-10	2.56E-09	3.20E-10	3.20E-10	1.58E-10	3.55E-09
1370	258143.17	4083829.99	2.26E-09	3.01E-08	4.46E-09	4.46E-09	2.49E-09	4.38E-08	3.42E-10	4.59E-09	6.96E-10	6.96E-10	3.83E-10	6.71E-09	1.86E-10	2.48E-09	3.10E-10	3.10E-10	1.53E-10	3.44E-09
1371	258118.84	4083830.99	2.19E-09	2.92E-08	4.32E-09	4.32E-09	2.41E-09	4.25E-08	3.32E-10	4.45E-09	6.75E-10	6.75E-10	3.71E-10	6.50E-09	1.80E-10	2.41E-09	3.00E-10	3.00E-10	1.49E-10	3.34E-09
1372	258094.51	4083831.99	2.12E-09	2.83E-08	4.18E-09	4.18E-09	2.33E-09	4.11E-08	3.21E-10	4.31E-09	6.53E-10	6.53E-10	3.59E-10	6.30E-09	1.75E-10	2.33E-09	2.91E-10	2.91E-10	1.44E-10	3.23E-09
1373	258070.18	4083832.99	2.05E-09	2.74E-08	4.05E-09	4.05E-09	2.26E-09	3.98E-08	3.11E-10	4.17E-09	6.33E-10	6.33E-10	3.48E-10	6.10E-09	1.69E-10	2.26E-09	2.82E-10	2.82E-10	1.39E-10	3.13E-09
1374	258045.85	4083833.99	1.99E-09	2.65E-08	3.93E-09	3.93E-09	2.19E-09	3.86E-08	3.02E-10	4.04E-09	6.13E-10	6.13E-10	3.37E-10	5.91E-09	1.64E-10	2.19E-09	2.73E-10	2.73E-10	1.35E-10	3.03E-09
1375	258021.51	4083834.99	1.93E-09	2.57E-08	3.80E-09	3.80E-09	2.12E-09	3.74E-08	2.92E-10	3.92E-09	5.94E-10	5.94E-10	3.27E-10	5.72E-09	1.59E-10	2.12E-09	2.64E-10	2.64E-10	1.31E-10	2.94E-09
1376	257997.18	4083835.99	1.87E-09	2.49E-08	3.69E-09	3.69E-09	2.06E-09	3.62E-08	2.83E-10	3.80E-09	5.76E-10	5.76E-10	3.17E-10	5.55E-09	1.54E-10	2.05E-09	2.56E-10	2.56E-10	1.27E-10	2.85E-09
1377	257972.85	4083836.99	1.81E-09	2.42E-08	3.58E-09	3.58E-09	1.99E-09	3.51E-08	2.75E-10	3.68E-09	5.58E-10	5.58E-10	3.07E-10	5.38E-09	1.49E-10	1.99E-09	2.48E-10	2.48E-10	1.23E-10	2.76E-09
1378	257948.52	4083837.99	1.76E-09	2.35E-08	3.47E-09	3.47E-09	1.94E-09	3.41E-08	2.67E-10	3.58E-09	5.42E-10	5.42E-10	2.98E-10	5.23E-09	1.45E-10	1.94E-09	2.41E-10	2.41E-10	1.19E-10	2.68E-09
1379	257924.19	4083838.99	1.71E-09	2.28E-08	3.38E-09	3.38E-09	1.88E-09	3.32E-08	2.59E-10	3.48E-09	5.27E-10	5.27E-10	2.90E-10	5.08E-09	1.41E-10	1.88E-09	2.35E-10	2.35E-10	1.16E-10	2.61E-09
1380	257899.86	4083839.99	1.66E-09	2.22E-08	3.29E-09	3.29E-09	1.83E-09	3.23E-08	2.52E-10	3.38E-09	5.13E-10	5.13E-10	2.82E-10	4.95E-09	1.37E-10	1.83E-09	2.28E-10	2.28E-10	1.13E-10	2.54E-09
1381	257875.52	4083840.99	1.62E-09	2.16E-08	3.20E-09	3.20E-09	1.78E-09	3.14E-08	2.46E-10	3.30E-09	5.00E-10	5.00E-10	2.75E-10	4.82E-09	1.34E-10	1.78E-09	2.22E-10	2.22E-10	1.10E-10	2.47E-09
1382	257851.19	4083841.99	1.58E-09	2.11E-08	3.13E-09	3.13E-09	1.74E-09	3.07E-08	2.40E-10	3.22E-09	4.88E-10	4.88E-10	2.68E-10	4.70E-09	1.30E-10	1.74E-09	2.17E-10	2.17E-10	1.07E-10	2.41E-09
1383	257826.86	4083842.99	1.55E-09	2.06E-08	3.05E-09	3.05E-09	1.70E-09	3.00E-08	2.35E-10	3.15E-09	4.77E-10	4.77E-10	2.62E-10	4.60E-09	1.27E-10	1.70E-09	2.12E-10	2.12E-10	1.05E-10	2.36E-09
1384	257802.53	4083843.99	1.51E-09	2.02E-08	2.99E-09	2.99E-09	1.67E-09	2.94E-08	2.30E-10	3.08E-09	4.67E-10	4.67E-10	2.57E-10	4.50E-09	1.25E-10	1.67E-09	2.08E-10	2.08E-10	1.03E-10	2.31E-09
1385	257778.2	4083845	1.48E-09	1.98E-08	2.93E-09	2.93E-09	1.63E-09	2.88E-08	2.25E-10	3.02E-09	4.58E-10	4.58E-10	2.52E-10	4.41E-09	1.22E-10	1.63E-09	2.04E-10	2.04E-10	1.01E-10	2.26E-09
1386	257753.86	4083846	1.46E-09	1.95E-08	2.88E-09	2.88E-09	1.61E-09	2.83E-08	2.21E-10	2.97E-09	4.50E-10	4.50E-10	2.47E-10	4.33E-09	1.20E-10	1.60E-09	2.00E-10	2.00E-10	9.90E-11	2.22E-09
1387	257729.53	4083847	1.43E-09	1.91E-08	2.83E-09	2.83E-09	1.58E-09	2.78E-08	2.17E-10	2.92E-09	4.42E-10	4.42E-10	2.43E-10	4.26E-09	1.18E-10	1.58E-09	1.97E-10	1.97E-10	9.74E-11	2.19E-09
1388	257705.2	4083848	1.41E-09	1.88E-08	2.79E-09	2.79E-09	1.55E-09	2.74E-08	2.14E-10	2.87E-09	4.35E-10	4.35E-10	2.39E-10	4.19E-09	1.16E-10	1.55E-09	1.93E-10	1.93E-10	9.58E-11	2.15E-09
1389	257680.87	4083849	1.39E-09	1.86E-08	2.75E-09	2.75E-09	1.53E-09	2.70E-08	2.11E-10	2.83E-09	4.29E-10	4.29E-10	2.36E-10	4.13E-09	1.15E-10	1.53E-09	1.91E-10	1.91E-10	9.44E-11	2.12E-09
1390	257656.54	4083850	1.37E-09	1.83E-08	2.71E-09	2.71E-09	1.51E-09	2.66E-08	2.08E-10	2.79E-09	4.22E-10	4.22E-10	2.32E-10	4.07E-09	1.13E-10	1.51E-09	1.88E-10	1.88E-10	9.30E-11	2.09E-09
1391	257632.21	4083851	1.35E-09	1.81E-08	2.67E-09	2.67E-09	1.49E-09	2.62E-08	2.05E-10	2.75E-09	4.17E-10	4.17E-10	2.29E-10	4.02E-09	1.11E-10	1.49E-09	1.86E-10	1.86E-10	9.19E-11	2.06E-09
1392	257607.87	4083852	1.33E-09	1.78E-08	2.64E-09	2.64E-09	1.47E-09	2.59E-08	2.02E-10	2.71E-09	4.11E-10	4.11E-10	2.26E-10	3.97E-09	1.10E-10	1.47E-09	1.83E-10	1.83E-10	9.06E-11	2.03E-09
1393	257583.54	4083853	1.32E-09	1.76E-08	2.60E-09	2.60E-09	1.45E-09	2.56E-08	2.00E-10	2.68E-09	4.06E-10	4.06E-10	2.23E-10	3.91E-09	1.09E-10	1.45E-09	1.81E-10	1.81E-10	8.95E-11	2.01E-09
1394	257559.21	4083854	1.30E-09	1.74E-08	2.57E-09	2.57E-09	1.43E-09	2.52E-08	1.97E-10	2.64E-09	4.01E-10	4.01E-10	2.20E-10	3.86E-09	1.07E-10	1.43E-09	1.78E-10	1.78E-10	8.83E-11	1.98E-09
1395	257534.88	4083855	1.28E-09	1.71E-08	2.53E-09	2.53E-09	1.41E-09	2.49E-08	1.94E-10	2.61E-09	3.95E-10	3.95E-10	2.17E-10	3.81E-09	1.06E-10	1.41E-09	1.76E-10	1.76E-10	8.70E-11	1.95E-09
1396	257510.55	4083856	1.26E-09	1.69E-08	2.50E-09	2.50E-09	1.39E-09	2.45E-08	1.92E-10	2.57E-09	3.90E-10	3.90E-10	2.14E-10	3.76E-09	1.04E-10	1.39E-09	1.74E-10	1.74E-10	8.59E-11	1.93E-09
1397	258327.66	4083631.44	1.98E-09	2.64E-08	3.91E-09	3.91E-09	2.18E-09	3.84E-08	3.00E-10	4.03E-09	6.11E-10	6.11E-10	3.36E-10	5.89E-09	1.63E-10	2.18E-09	2.72E-10	2.72E-10	1.35E-10	3.02E-09
1398	258350.03	4083639.73	2.06E-09	2.75E-08	4.06E-09	4.06E-09	2.27E-09	3.99E-08	3.12E-10	4.19E-09	6.35E-10	6.35E-10	3.49E-10	6.12E-09	1.70E-10	2.26E-09	2.82E-10	2.82E-10	1.40E-10	3.14E-09
1399	258372.41	4083648.01	2.14E-09	2.86E-08	4.23E-09	4.23E-09	2.36E-09	4.15E-08	3.25E-10	4.35E-09	6.60E-10	6.60E-10	3.63E-10	6.36E-09	1.76E-10	2.36E-09	2.94E-10	2.94E-10	1.45E-10	3.26E-09
1400	258394.78	4083656.29	2.23E-09	2.97E-08	4.40E-09	4.40E-09	2.45E-09	4.32E-08	3.38E-10	4.53E-09	6.87E-10	6.87E-10	3.78E-10	6.62E-09	1.84E-10	2.45E-09	3.06E-10	3.06E-10	1.51E-10	3.40E-09
1401	258417.16	4083664.58	2.32E-09	3.10E-08	4.59E-09	4.59E-09	2.56E-09	4.51E-08	3.53E-10	4.73E-09	7.17E-10	7.17E-10	3.94E-10	6.91E-09	1.91E-10	2.56E-09	3.19E-10	3.19E-10	1.58E-10	3.55E-09
1402	258439.54	4083672.86	2.43E-09	3.24E-08	4.79E-09	4.79E-09	2.67E-09	4.71E-08	3.68E-10	4.94E-09	7.48E-10	7.48E-10	4.11E-10	7.21E-09	2.00E-10	2.67E-09	3.33E-10	3.33E-10	1.65E-10	3.70E-09
1403	258461.91	4083681.15	2.54E-09	3.39E-08	5.01E-09	5.01E-09	2.79E-09	4.92E-08	3.85E-10	5.16E-09	7.82E-10	7.82E-10	4.30E-10	7.54E-09	2.09E-10	2.79E-09	3.48E-10	3.48E-10	1.72E-10	3.87E-09
1404	258484.29	4083689.43	2.65E-09	3.54E-08	5.24E-09	5.24E-09	2.92E-09	5.15E-08	4.03E-10	5.40E-09	8.19E-10	8.19E-10	4.50E-10	7.89E-09	2.19E-10	2.92E-09	3.64E-10	3.64E-10	1.80E-10	4.05E-09
1405	258506.66	4083697.72	2.78E-09	3.72E-08	5.50E-09	5.50E-09	3.06E-09	5.40E-08	4.22E-10	5.66E-09	8.58E-10	8.58E-10	4.72E-10	8.27E-09	2.29E-10	3.06E-09	3.82E-10	3.82E-10	1.89E-10	4.24E-09
1406	258529.04	4083706	2.92E-09	3.90E-08	5.77E-09	5.77E-09	3.21E-09	5.66E-08	4.43E-10	5.94E-09	9.00E-10	9.00E-10	4.95E-10	8.68E-09	2.41E-10	3.21E-09	4.01E-10	4.01E-10	1.98E-10	4.45E-09
1407	258551.41	4083714.29	3.06E-09	4.09E-08	6.05E-09	6.05E-09	3.38E-09	5.95E-08	4.65E-10	6.23E-09	9.45E-10	9.45E-10	5.20E-10	9.11E-09	2.53E-10	3.37E-09	4.21E-10	4.21E-10	2.08E-10	4.67E-09
1408	258573.79	4083722.57	3.22E-09	4.30E-08	6.36E-09	6.36E-09	3.55E-09	6.25E-08	4.88E-10	6.55E-09	9.93E-10	9.93E-10	5.46E-10	9.57E-09	2.65E-10	3.54E-09	4.42E-10	4.42E-10	2.19E-10	4.91E-09
1409	258596.17	4083730.85	3.38E-09	4.52E-08	6.68E-09	6.68E-09	3.73E-09	6.57E-08	5.13E-10	6.88E-09	1.04E-09	1.04E-09	5.74E-10	1.01E-08	2.79E-10	3.72E-09	4.64E-10	4.64E-10	2.30E-10	5.16E-09
1410	258618.54	4083739.14	3.55E-09	4.75E-08	7.02E-09	7.02E-09	3.92E-09	6.90E-08	5.39E-10	7.23E-09	1.10E-09	1.10E-09	6.03E-10	1.06E-08	2.93E-10	3.91E-09	4.88E-10	4.88E-10	2.42E-10	5.42E-09
1411	258640.92	4083747.42	3.74E-09	4.99E-08	7.38E-09	7.38E-09	4.12E-09	7.25E-08	5.67E-10	7.60E-09	1.15E-09	1.15E-09	6.34E-10	1.11E-08	3.08E-10	4.11E-09	5.13E-10	5.13E-10	2.54E-10	5.70E-09
1412	258663.29	4083755.71	3.92E-09	5.24E-08	7.75E-09	7.75E-09	4.32E-09	7.62E-08	5.95E-10	7.98E-09	1.21E-09	1.21E-09	6.66E-10	1.17E-08	3.23E-10	4.32E-09	5.39E-10	5.39E-10	2.67E-10	5.99E-09

1413	258685.67	4083763.99	4.12E-09	5.50E-08	8.14E-09	8.14E-09	4.54E-09	8.00E-08	6.25E-10	8.38E-09	1.27E-09	1.27E-09	6.99E-10	1.23E-08	3.40E-10	4.54E-09	5.66E-10	5.66E-10	2.80E-10	6.29E-09
1414	258708.04	4083772.28	4.32E-09	5.77E-08	8.54E-09	8.54E-09	4.76E-09	8.39E-08	6.56E-10	8.80E-09	1.33E-09	1.33E-09	7.33E-10	1.29E-08	3.56E-10	4.76E-09	5.93E-10	5.93E-10	2.94E-10	6.60E-09
1415	258730.42	4083780.56	4.53E-09	6.05E-08	8.96E-09	8.96E-09	4.99E-09	8.80E-08	6.88E-10	9.22E-09	1.40E-09	1.40E-09	7.69E-10	1.35E-08	3.74E-10	4.99E-09	6.22E-10	6.22E-10	3.08E-10	6.92E-09
1416	258752.8	4083788.84	4.75E-09	6.34E-08	9.38E-09	9.38E-09	5.23E-09	9.22E-08	7.21E-10	9.66E-09	1.47E-09	1.47E-09	8.06E-10	1.41E-08	3.91E-10	5.23E-09	6.52E-10	6.52E-10	3.23E-10	7.25E-09
1417	258775.17	4083797.13	4.97E-09	6.64E-08	9.82E-09	9.82E-09	5.47E-09	9.64E-08	7.54E-10	1.01E-08	1.53E-09	1.53E-09	8.43E-10	1.48E-08	4.10E-10	5.47E-09	6.82E-10	6.82E-10	3.38E-10	7.58E-09
1418	258797.55	4083805.41	5.19E-09	6.94E-08	1.03E-08	1.03E-08	5.72E-09	1.01E-07	7.88E-10	1.06E-08	1.60E-09	1.60E-09	8.81E-10	1.54E-08	4.28E-10	5.72E-09	7.13E-10	7.13E-10	3.53E-10	7.93E-09
1419	258819.92	4083813.7	5.43E-09	7.25E-08	1.07E-08	1.07E-08	5.98E-09	1.05E-07	8.23E-10	1.10E-08	1.67E-09	1.67E-09	9.20E-10	1.61E-08	4.47E-10	5.97E-09	7.45E-10	7.45E-10	3.69E-10	8.28E-09
1420	258842.3	4083821.98	5.66E-09	7.56E-08	1.12E-08	1.12E-08	6.23E-09	1.10E-07	8.59E-10	1.15E-08	1.75E-09	1.75E-09	9.60E-10	1.68E-08	4.66E-10	6.23E-09	7.77E-10	7.77E-10	3.84E-10	8.63E-09
1421	258864.68	4083830.27	5.89E-09	7.87E-08	1.16E-08	1.16E-08	6.49E-09	1.14E-07	8.94E-10	1.20E-08	1.82E-09	1.82E-09	9.99E-10	1.75E-08	4.86E-10	6.49E-09	8.09E-10	8.09E-10	4.00E-10	8.99E-09
1422	258887.05	4083838.55	6.13E-09	8.18E-08	1.21E-08	1.21E-08	6.75E-09	1.19E-07	9.30E-10	1.25E-08	1.89E-09	1.89E-09	1.04E-09	1.82E-08	5.05E-10	6.75E-09	8.41E-10	8.41E-10	4.16E-10	9.35E-09
1423	258909.43	4083846.83	6.36E-09	8.50E-08	1.26E-08	1.26E-08	7.01E-09	1.23E-07	9.65E-10	1.29E-08	1.96E-09	1.96E-09	1.08E-09	1.89E-08	5.24E-10	7.00E-09	8.73E-10	8.73E-10	4.32E-10	9.71E-09
1424	258931.8	4083855.12	6.59E-09	8.81E-08	1.30E-08	1.30E-08	7.27E-09	1.28E-07	1.00E-09	1.34E-08	2.03E-09	2.03E-09	1.12E-09	1.96E-08	5.44E-10	7.26E-09	9.05E-10	9.05E-10	4.48E-10	1.01E-08
1425	258954.18	4083863.4	6.83E-09	9.12E-08	1.35E-08	1.35E-08	7.52E-09	1.32E-07	1.04E-09	1.39E-08	2.11E-09	2.11E-09	1.16E-09	2.03E-08	5.63E-10	7.52E-09	9.37E-10	9.37E-10	4.64E-10	1.04E-08
1426	258976.55	4083871.69	7.05E-09	9.42E-08	1.39E-08	1.39E-08	7.77E-09	1.37E-07	1.07E-09	1.44E-08	2.18E-09	2.18E-09	1.20E-09	2.10E-08	5.81E-10	7.77E-09	9.68E-10	9.68E-10	4.79E-10	1.08E-08
1427	258998.93	4083879.97	7.27E-09	9.72E-08	1.44E-08	1.44E-08	8.01E-09	1.41E-07	1.10E-09	1.48E-08	2.24E-09	2.24E-09	1.23E-09	2.16E-08	6.00E-10	8.01E-09	9.99E-10	9.99E-10	4.94E-10	1.11E-08
1428	259021.31	4083888.26	7.49E-09	1.00E-07	1.48E-08	1.48E-08	8.25E-09	1.45E-07	1.14E-09	1.52E-08	2.31E-09	2.31E-09	1.27E-09	2.23E-08	6.17E-10	8.25E-09	1.03E-09	1.03E-09	5.09E-10	1.14E-08
1429	259043.68	4083896.54	7.69E-09	1.03E-07	1.52E-08	1.52E-08	8.48E-09	1.49E-07	1.17E-09	1.57E-08	2.37E-09	2.37E-09	1.31E-09	2.29E-08	6.34E-10	8.47E-09	1.06E-09	1.06E-09	5.23E-10	1.17E-08
1430	259066.06	4083904.83	7.88E-09	1.05E-07	1.56E-08	1.56E-08	8.69E-09	1.53E-07	1.20E-09	1.60E-08	2.43E-09	2.43E-09	1.34E-09	2.34E-08	6.50E-10	8.68E-09	1.08E-09	1.08E-09	5.36E-10	1.20E-08
1431	259088.43	4083913.11	8.06E-09	1.08E-07	1.59E-08	1.59E-08	8.89E-09	1.57E-07	1.22E-09	1.64E-08	2.49E-09	2.49E-09	1.37E-09	2.40E-08	6.65E-10	8.88E-09	1.11E-09	1.11E-09	5.48E-10	1.23E-08
1432	259110.81	4083921.39	8.23E-09	1.10E-07	1.63E-08	1.63E-08	9.07E-09	1.60E-07	1.25E-09	1.67E-08	2.54E-09	2.54E-09	1.40E-09	2.45E-08	6.78E-10	9.06E-09	1.13E-09	1.13E-09	5.59E-10	1.26E-08
1433	259133.18	4083929.68	8.38E-09	1.12E-07	1.66E-08	1.66E-08	9.24E-09	1.63E-07	1.27E-09	1.71E-08	2.59E-09	2.59E-09	1.42E-09	2.49E-08	6.91E-10	9.23E-09	1.15E-09	1.15E-09	5.70E-10	1.28E-08
1434	259155.56	4083937.96	8.52E-09	1.14E-07	1.68E-08	1.68E-08	9.38E-09	1.65E-07	1.29E-09	1.73E-08	2.63E-09	2.63E-09	1.44E-09	2.53E-08	7.02E-10	9.38E-09	1.17E-09	1.17E-09	5.79E-10	1.30E-08
1435	259177.94	4083946.25	8.63E-09	1.15E-07	1.70E-08	1.70E-08	9.51E-09	1.67E-07	1.31E-09	1.76E-08	2.66E-09	2.66E-09	1.46E-09	2.57E-08	7.11E-10	9.50E-09	1.18E-09	1.18E-09	5.86E-10	1.32E-08
1436	259200.31	4083954.53	8.73E-09	1.17E-07	1.72E-08	1.72E-08	9.61E-09	1.69E-07	1.32E-09	1.78E-08	2.69E-09	2.69E-09	1.48E-09	2.59E-08	7.19E-10	9.61E-09	1.20E-09	1.20E-09	5.93E-10	1.33E-08
1437	259222.69	4083962.82	8.81E-09	1.18E-07	1.74E-08	1.74E-08	9.70E-09	1.71E-07	1.34E-09	1.79E-08	2.72E-09	2.72E-09	1.49E-09	2.62E-08	7.26E-10	9.70E-09	1.21E-09	1.21E-09	5.99E-10	1.34E-08
1438	259254.9	4083992.84	9.11E-09	1.22E-07	1.80E-08	1.80E-08	1.00E-08	1.77E-07	1.38E-09	1.85E-08	2.81E-09	2.81E-09	1.55E-09	2.71E-08	7.51E-10	1.00E-08	1.25E-09	1.25E-09	6.19E-10	1.39E-08
1439	259264.73	4084014.58	9.33E-09	1.25E-07	1.84E-08	1.84E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.88E-09	2.88E-09	1.58E-09	2.77E-08	7.69E-10	1.03E-08	1.28E-09	1.28E-09	6.34E-10	1.42E-08
1440	259274.57	4084036.32	9.54E-09	1.27E-07	1.88E-08	1.88E-08	1.05E-08	1.85E-07	1.45E-09	1.94E-08	2.94E-09	2.94E-09	1.62E-09	2.84E-08	7.86E-10	1.05E-08	1.31E-09	1.31E-09	6.48E-10	1.46E-08
1441	259284.4	4084058.06	9.73E-09	1.30E-07	1.92E-08	1.92E-08	1.07E-08	1.89E-07	1.48E-09	1.98E-08	3.00E-09	3.00E-09	1.65E-09	2.89E-08	8.02E-10	1.07E-08	1.34E-09	1.34E-09	6.61E-10	1.48E-08
1442	259294.24	4084079.8	9.90E-09	1.32E-07	1.96E-08	1.96E-08	1.09E-08	1.92E-07	1.50E-09	2.01E-08	3.05E-09	3.05E-09	1.68E-09	2.94E-08	8.16E-10	1.09E-08	1.36E-09	1.36E-09	6.73E-10	1.51E-08
1443	259304.07	4084101.53	1.00E-08	1.34E-07	1.98E-08	1.98E-08	1.11E-08	1.95E-07	1.52E-09	2.04E-08	3.10E-09	3.10E-09	1.70E-09	2.99E-08	8.28E-10	1.11E-08	1.38E-09	1.38E-09	6.82E-10	1.53E-08
1444	259313.91	4084123.27	1.02E-08	1.36E-07	2.01E-08	2.01E-08	1.12E-08	1.97E-07	1.54E-09	2.07E-08	3.14E-09	3.14E-09	1.72E-09	3.02E-08	8.38E-10	1.12E-08	1.40E-09	1.40E-09	6.91E-10	1.55E-08
1445	259323.74	4084145.01	1.03E-08	1.37E-07	2.03E-08	2.03E-08	1.13E-08	1.99E-07	1.56E-09	2.09E-08	3.16E-09	3.16E-09	1.74E-09	3.05E-08	8.45E-10	1.13E-08	1.41E-09	1.41E-09	6.97E-10	1.57E-08
1446	259333.58	4084166.75	1.03E-08	1.38E-07	2.04E-08	2.04E-08	1.14E-08	2.00E-07	1.57E-09	2.10E-08	3.18E-09	3.18E-09	1.75E-09	3.07E-08	8.51E-10	1.14E-08	1.42E-09	1.42E-09	7.01E-10	1.57E-08
1447	259343.41	4084188.49	1.04E-08	1.38E-07	2.05E-08	2.05E-08	1.14E-08	2.01E-07	1.57E-09	2.11E-08	3.20E-09	3.20E-09	1.76E-09	3.08E-08	8.54E-10	1.14E-08	1.42E-09	1.42E-09	7.04E-10	1.58E-08
1448	259353.25	4084210.23	1.04E-08	1.38E-07	2.05E-08	2.05E-08	1.14E-08	2.01E-07	1.57E-09	2.11E-08	3.20E-09	3.20E-09	1.76E-09	3.08E-08	8.54E-10	1.14E-08	1.42E-09	1.42E-09	7.04E-10	1.58E-08
1449	259363.08	4084231.97	1.03E-08	1.38E-07	2.04E-08	2.04E-08	1.14E-08	2.01E-07	1.57E-09	2.10E-08	3.19E-09	3.19E-09	1.75E-09	3.07E-08	8.52E-10	1.14E-08	1.42E-09	1.42E-09	7.02E-10	1.58E-08
1450	259372.92	4084253.71	1.03E-08	1.37E-07	2.03E-08	2.03E-08	1.13E-08	2.00E-07	1.56E-09	2.09E-08	3.17E-09	3.17E-09	1.74E-09	3.06E-08	8.47E-10	1.13E-08	1.41E-09	1.41E-09	6.99E-10	1.57E-08
1451	259382.75	4084275.45	1.02E-08	1.36E-07	2.02E-08	2.02E-08	1.12E-08	1.98E-07	1.55E-09	2.08E-08	3.15E-09	3.15E-09	1.73E-09	3.03E-08	8.41E-10	1.12E-08	1.40E-09	1.40E-09	6.93E-10	1.56E-08
1452	259392.59	4084297.18	1.01E-08	1.35E-07	1.99E-08	1.99E-08	1.11E-08	1.96E-07	1.53E-09	2.05E-08	3.11E-09	3.11E-09	1.71E-09	3.00E-08	8.32E-10	1.11E-08	1.39E-09	1.39E-09	6.86E-10	1.54E-08
1453	259402.42	4084318.92	9.96E-09	1.33E-07	1.97E-08	1.97E-08	1.10E-08	1.93E-07	1.51E-09	2.03E-08	3.07E-09	3.07E-09	1.69E-09	2.96E-08	8.21E-10	1.10E-08	1.37E-09	1.37E-09	6.77E-10	1.52E-08
1454	259412.26	4084340.66	9.81E-09	1.31E-07	1.94E-08	1.94E-08	1.08E-08	1.90E-07	1.49E-09	2.00E-08	3.03E-09	3.03E-09	1.66E-09	2.92E-08	8.09E-10	1.08E-08	1.35E-09	1.35E-09	6.67E-10	1.50E-08
1455	259422.09	4084362.4	9.64E-09	1.29E-07	1.91E-08	1.91E-08	1.06E-08	1.87E-07	1.46E-09	1.96E-08	2.97E-09	2.97E-09	1.64E-09	2.87E-08	7.95E-10	1.06E-08	1.32E-09	1.32E-09	6.55E-10	1.47E-08
1456	259431.93	4084384.14	9.46E-09	1.26E-07	1.87E-08	1.87E-08	1.04E-08	1.84E-07	1.44E-09	1.93E-08	2.92E-09	2.92E-09	1.60E-09	2.81E-08	7.80E-10	1.04E-08	1.30E-09	1.30E-09	6.43E-10	1.44E-08
1457	259441.76	4084405.88	9.31E-09	1.24E-07	1.84E-08	1.84E-08	1.03E-08	1.81E-07	1.41E-09	1.89E-08	2.87E-09	2.87E-09	1.58E-09	2.77E-08	7.67E-10	1.02E-08	1.28E-09	1.28E-09	6.32E-10	1.42E-08
1458	259451.6	4084427.62	9.11E-09	1.22E-07	1.80E-08	1.80E-08	1.00E-08	1.77E-07	1.38E-09	1.85E-08	2.81E-09	2.81E-09	1.55E-09	2.71E-08	7.51E-10	1.00E-08	1.25E-09	1.25E-09	6.19E-10	1.39E-08
1459	259461.43	4084449.36	8.91E-09	1.19E-07	1.76E-08	1.76E-08	9.82E-09	1.73E-07	1.35E-09	1.81E-08	2.75E-09	2.75E-09	1.51E-09	2.65E-08	7.35E-10	9.81E-09	1.22E-09	1.22E-09	6.06E-10	1.36E-08
1460	259471.26	4084471.1	8.71E-09	1.16E-07	1.72E-08	1.72E-08	9.60E-09	1.69E-07	1.32E-09	1.77E-08	2.69E-09	2.69E-09	1.48E-09	2.59E-08	7.18E-10	9.59E-09	1.20E-09	1.20E-09	5.92E-10	1.33E-08
1461	259481.1	4084492.84	8.51E-09	1.14E-07	1.68E-08	1.68E-08	9.38E-09	1.65E-07	1.29E-09	1.73E-08	2.63E-09	2.63E-09	1.44E-09	2.53E-08	7.01E-10	9.37E-09	1.17E-09	1.17E-09	5.78E-10	1.30E-08
1462	259490.93	4084514.57	8.30E-09	1.11E-07	1.64E-08	1.64E-08	9.15E-09	1.61E-07	1.26E-09	1.69E-08	2.56E-09	2.56E-09	1.41E-09	2.47E-08	6.85E-10	9.14E-09	1.14E-09	1.14E-09	5.64E-10	1.27E-08
1463	259500.77	4084536.31	8.09E-09	1.08E-07	1.60E-08	1.60E-08	8.92E-09	1.57E-07	1.23E-09	1.65E-08	2.50E-09	2.50E-09	1.37E-09	2.41E-08	6.67E-10	8.91E-09	1.11E-09	1.11E-09	5.50E-10	1.23E-08
1464	259510.6	4084558.05	7.87E-09	1.05E-07	1.56E-08	1.56E-08	8.67E-09	1.53E-07	1.19E-09	1.60E-08	2.43E-09	2.43E-09	1.34E-09	2.34E-08	6.49E-10	8.67E-09	1.08E-09	1.08E-09	5.35E-10	1.20E-08
1465	259520.44	4084579.79	7.64E-09	1.02E-07	1.51E-08	1.51E-08	8.41E-09	1.48E-07	1.16E-09	1.55E-08	2.36E-09	2.36E-09	1.30E-09	2.27E-08	6.29E-10	8.41E-09	1.05E-09	1.05E-09	5.19E-10	1.17E-08
1466	259530.27	4084601.53	7.39E-09	9.87E-08	1.46E-08	1.46E-08	8.14E-09	1.43E-07	1.12E-09	1.50E-08	2.28E-09	2.28E-09	1.25E-09	2.20E-08	6.09E-10	8.13E-09	1.01E-09	1.01E-09	5.02E-10	1.13E-08
1467	259540.11	4084623.27	7.13E-09	9.52E-08	1.41E-08	1.41E-08	7.85E-09	1.38E-07	1.08E-09	1.45E-08	2.20E-09	2.20E-09	1.21E-09	2.12E-08	5.88E-10	7.85E-09	9.79E-10	9.79E-10	4.84E-10	1.09E-08
1468	259549.94	4084645.01	6.86E-09	9.17E-08	1.36E-08	1.36E-08	7.56E-09	1.33E-07	1.04E-09	1.40E-08	2.12E-09	2.12E-09	1.16E-09	2.04E-08	5.66E-10	7.56E-09	9.42E-10	9.42E-10	4.66E-10	1.05E-08
1469	259559.78	4084666.75	6.60E-09	8.82E-08	1.30E-08	1.30E-08	7.27E-09	1.28E-07	1.00E-09	1.34E-08	2.04E-09	2.04E-09	1.12E-09	1.96E-08	5.44E-10	7.27E-09	9.06E-10	9.06E-10	4.49E-10	1.01E-08
1470	259569.61	4084688.49	6.35E-09	8.48E-08	1.25E-08	1.25E-08	6.99E-09	1.23E-07	9.63E-10	1.29E-08	1.96E-09	1.96E-09	1.08E-09	1.89E-08	5.23E-10	6.99E-09	8.71E-10	8.71E-10	4.31E-10	9.69E-09
1471	259579.45	4084710.22	6.11E-09	8.16E-08	1.21E-08	1.21E-08	6.73E-09	1.19E-07	9.27E-10	1.24E-08	1.88E-09	1.88E-09	1.04E-09	1.82E-08	5.04E-10	6.73E-09	8.39E-10	8.39E-10	4.15E-10	9.32E-09
1472	259589.28	4084731.96	5.89E-09	7.87E-08	1.16E-08	1.16E-08	6.49E-09	1.14E-07	8.94E-10	1.20E-08	1.82E-09	1.82E-09	9.99E-10	1.75E-08	4.85E-10	6.48E-09	8.08E-10	8.08E-10	4.00E-10	8.99E-09
1473	259599.12	4084753.7	5.69E-09	7.60E-08	1.12E-08	1.12E-08	6.27E-09	1.10E-07	8.63E-10	1.16E-08	1.75E-09	1.75E-09	9.65E-10	1.69E-08	4.69E-10	6.26E-09	7.81E-10	7.81E-10	3.86E-10	8.68E-09
1474	259608.95	4084775.44	5.50E-09	7.35E-08	1.09E-08	1.09E-08	6.06E-09	1.07E-07	8.35E-10	1.12E-08	1.70E-09	1.70E-09	9.33E-10	1.64E-08	4.53E-10	6.06E-09	7.55E-10	7.55E-10	3.74E-10	8.40E-09
1475	259618.79	4084797.18	5.33E-09	7.12E-08	1.05E-08	1.05E-08	5.87E-09	1.03E-07	8.09E-10	1.08E-08	1.64E-09	1.64E-09	9.04E-10	1.58E-08	4.39E-10	5.87E-09	7.31E-10	7.31E-10	3.62E-10	8.13E-09
1476	259628.62	4084818.92	5.16E-09	6.89E-08	1.02E-08	1.02E-08	5.68E-09	1.00E-07	7.83E-10	1.05E-08	1.59E-09	1.59E-09	8.75E-10	1.53E-08	4.25E-10	5.68E-09	7.08E-10	7.08E-10	3.51E-10	7.87E-09
1477	259638.46	4084840.66	4.99E-09	6.67E-08	9.86E-09	9.86E-09	5.50E-09	9.69E-08	7.58E-10	1.02E-08	1.54E-09	1.54E-09	8.47E-10	1.48E-08	4.11E-10	5.50E-09	6.85E-10	6.85E-10	3.39E-10	7.62E-09
1478	259648.29	4084862.4	4.82E-09	6.44E-08	9.53E-09	9.53E-09	5.32E-09	9.37E-08	7.32E-10	9.82E-09	1.49E-09	1.49E-09	8.18E-10	1.43E-08	3.98E-10	5.31E-09	6.62E-10	6.62E-10	3.28E-10	7.36E-09
1479	258305.28	4083623.16	1.91E-09	2.55E-08	3.77E-09	3.77E-09	2.10E-09	3.70E-08	2.89E-10	3.88E-09	5.88E-10	5.88E-10	3.23E-10	5.67E-09	1.57E-10	2.10E-09	2.62E-10	2.62E-10	1.30E-10	2.91E-09
1480	258280.95	4083624.16	1.86E-09	2.49E-08	3.68E-09	3.68E-09	2.05E-09	3.61E-08	2.83E-10	3.79E-09	5.74E-10	5.74E-10	3.16E-10	5.54E-09	1.53E-10	2.05E-09	2.56E-10	2.56E-10	1.27E-10	2.84E-09
1481	258256.62	4083625.16	1.82E-09	2.43E-08	3.59E-09	3.59E-09	2.00E-09	3.53E-08	2.76E-10	3.70E-09	5.61E-10	5.61E-10	3.08E-10	5.41E-09	1.50E-10	2.00E-09	2.50E-10	2.50E-10	1.24E-10	2.77E-09
1482	258232.29	4083626.16	1.78E-09	2.37E-08	3.51E-09	3.51E-09	1.96E-09	3.45E-08	2.70E-10	3.61E-09	5.48E-10	5.48E-10	3.01E-10	5.28E-09	1.46E-10	1.96E-09	2.44E-10	2.44E-10	1.21E-10	2.71E-09
1483	258207.95	4083627.16	1.73E-09	2.32E-08	3.43E-09	3.43E-09	1.91E-09	3.37E-08	2.63E-10	3.53E-09	5.35E-10	5.35E-10	2.94E-10	5.16E-09	1.43E-10	1.91E-09	2.38E-10	2.38E-10	1.18E-10	2.65E-09
1484	258183.62	4083628.16	1.69E-09	2.26E-08	3.35E-09	3.35E-09	1.87E-09	3.29E-08	2.57E-10	3.45E-09	5.23E-10	5.23E-10	2.87E-10	5.04E-09	1.40E-10	1.87E-09	2.33E-10	2.33E-10	1.15E-10	2.59E-09
1485	258159.29	4083629.16	1.65E-09	2.21E-08	3.27E-09	3.27E-09	1.82E-09	3.21E-08	2.51E-10	3.37E-09	5.10E-10	5.10E-10	2.81E-10	4.92E-09	1.36E-10	1.82E-09	2.27E-10	2.27E-10	1.12E-10	2.52E-09
1486	258134.96	4083630.16	1.61E-09	2.16E-08	3.19E-09	3.19E-09	1.78E-09	3.13E-08	2.45E-10	3.28E-09	4.98E-10	4.98E-10	2.74E-10	4.80E-09	1.33E-10	1.78E-09	2.22E-10	2.22E-10	1.10E-10	2.46E-09
1487	258110.63	4083631.16	1.57E-09	2.10E-08	3.11E-09	3.11E-09	1.73E-09	3.05E-08	2.39E-10	3.20E-09	4.86E-10	4.86E-10	2.67E-10	4.68E-09	1.30E-10	1.73E-09	2.16E-10	2.16E-10	1.07E-10	2.40E-09
1488	258086.29	4083632.16	1.53E-09	2.05E-08	3.03E-09	3.03E-09	1.69E-09	2.98E-08	2.33E-10	3.12E-09	4.74E-10	4.74E-10	2.60E-10	4.56E-09	1.27E-10	1.69E-09	2.11E-10	2.11E-10	1.04E-10	2.34E-09
1489	258061.96	4083633.16	1.50E-09	2.00E-08	2.96E-09	2.96E-09	1.65E-09	2.91E-08	2.27E-10	3.05E-09	4.62E-10	4.62E-10	2.54E-10	4.45E-09	1.23E-10	1.65E-09	2.06E-10	2.06E-10	1.02E-10	2.29E-09
1490	258037.63	4083634.16	1.46E-09	1.95E-08	2.89E-09	2.89E-09	1.61E-09	2.84E-08	2.22E-10	2.97E-09	4.51E-10	4.51E-10	2.48E-10	4.34E-09	1.20E-10	1.61E-09	2.01E-10	2.01E-10	9.92E-11	2.23E-09
1491	258013.3	4083635.16	1.42E-09	1.90E-08	2.81E-09	2.81E-09	1.57E-09	2.76E-08	2.16E-10	2.90E-09	4.39E-10	4.39E-10	2.41E-10	4.23E-09	1.17E-10	1.57E-09	1.95E-10	1.95E-10	9.67E-11	2.17E-09
1492	257988.97	4083636.16	1.39E-09	1.86E-08	2.75E-09	2.75E-09	1.53E-09	2.70E-08	2.11E-10	2.83E-09	4.29E-10	4.29E-10	2.36E-10	4.13E-09	1.15E-10	1.53E-09	1.91E-10	1.91E-10	9.44E-11	2.12E-09
1493	257964.64	4083637.16	1.36E-09	1.81E-08	2.68E-09	2.68E-09	1.49E-09	2.63E-08	2.06E-10	2.76E-09	4.18E-10	4.18E-10	2.30E-10	4.03E-09	1.12E-10	1.49E-09	1.86E-10	1.86E-10	9.21E-11	2.07E-09
1494	257940.3	4083638.16	1.32E-09	1.77E-08	2.62E-09	2.62E-09	1.46E-09	2.57E-08	2.01E-10	2.69E-09	4.09E-10	4.09E-10	2.25E-10	3.94E-09	1.09E-10	1.46E-09	1.82E-10	1.82E-10	9.00E-11	2.02E-09
1495	257915.97	4083639.16	1.29E-09	1.73E-08	2.56E-09	2.56E-09	1.42E-09	2.51E-08	1.96E-10	2.63E-09	3.99E-10	3.99E-10	2.19E-10	3.85E-09	1.07E-10	1.42E-09	1.78E-10	1.78E-10	8.79E-11	1.97E-09
1496	257891.64	4083640.16	1.26E-09	1.69E-08	2.50E-09	2.50E-09	1.39E-09	2.45E-08	1.92E-10	2.57E-09	3.90E-10	3.90E-10	2.14E-10	3.76E-09	1.04E-10	1.39E-09	1.74E-10	1.74E-10	8.59E-11	1.93E-09
1497	257867.31	4083641.16	1.24E-09	1.65E-08	2.45E-09	2.45E-09	1.36E-09	2.40E-08	1.88E-10	2.52E-09	3.82E-10	3.82E-10	2.10E-10	3.68E-09	1.02E-10	1.36E-09	1.70E-10	1.70E-10	8.41E-11	1.89E-09
1498	257842.98	4083642.16	1.21E-09	1.62E-08	2.39E-09	2.39E-09	1.33E-09	2.35E-08	1.84E-10	2.46E-09	3.74E-10	3.74E-10	2.05E-10	3.60E-09	9.98E-11	1.33E-09	1.66E-10	1.66E-10	8.23E-11	1.85E-09
1499	257818.64	4083643.16	1.19E-09	1.59E-08	2.35E-09	2.35E-09	1.31E-09	2.31E-08	1.80E-10	2.42E-09	3.67E-10	3.67E-10	2.02E-10	3.53E-09	9.79E-11	1.31E-09	1.63E-10	1.63E-10	8.07E-11	1.81E-09
1500	257794.31	4083644.16	1.17E-09	1.56E-08	2.30E-09	2.30E-09	1.28E-09	2.26E-08	1.77E-10	2.37E-09	3.60E-10	3.60E-10	1.98E-10	3.47E-09	9.61E-11	1.28E-09	1.60E-10	1.60E-10	7.93E-11	1.78E-09
1501	257769.98	4083645.16	1.15E-09	1.53E-08	2.27E-09	2.27E-09	1.26E-09	2.22E-08	1.74E-10	2.33E-09	3.54E-10	3.54E-10	1.94E-10	3.41E-09	9.45E-11	1.26E-09	1.57E-10	1.57E-10	7.79E-11	1.75E-09
1502	257745.65	4083646.16	1.13E-09	1.50E-08	2.23E-09	2.23E-09	1.24E-09	2.19E-08	1.71E-10	2.29E-09	3.47E-10	3.47E-10	1.91E-10	3.35E-09	9.28E-11	1.24E-09	1.55E-10	1.55E-10	7.65E-11	1.72E-09
1503	257721.32	4083647.16	1.11E-09	1.48E-08	2.19E-09	2.19E-09	1.22E-09	2.15E-08	1.68E-10	2.26E-09	3.42E-10	3.42E-10	1.88E-10	3.30E-09	9.14E-11	1.22E-09	1.52E-10	1.52E-10	7.54E-11	1.69E-09
1504	257696.99	4083648.16	1.09E-09	1.46E-08	2.16E-09	2.16E-09	1.20E-09	2.12E-08	1.66E-10	2.23E-09	3.37E-10	3.37E-10	1.85E-10	3.25E-09	9.01E-11	1.20E-09	1.50E-10	1.50E-10	7.43E-11	1.67E-09
1505	257672.65	4083649.17	1.08E-09	1.44E-08	2.13E-09	2.13E-09	1.19E-09	2.09E-08	1.64E-10	2.19E-09	3.33E-10	3.33E-10	1.83E-10	3.21E-09	8.89E-11	1.19E-09	1.48E-10	1.48E-10	7.33E-11	1.64E-09
1506	257648.32	4083650.17	1.06E-09	1.42E-08	2.10E-09	2.10E-09	1.17E-09	2.07E-08	1.61E-10	2.17E-09	3.28E-10	3.28E-10	1.81E-10	3.16E-09	8.77E-11	1.17E-09	1.46E-10	1.46E-10	7.23E-11	1.62E-09
1507	257623.99	4083651.17	1.05E-09	1.40E-08	2.08E-09	2.08E-09	1.16E-09	2.04E-08	1.59E-10	2.14E-09	3.24E-10	3.24E-10	1.78E-10	3.12E-09	8.66E-11	1.16E-09	1.44E-10	1.44E-10	7.14E-11	1.60E-09
1508	257599.66	4083652.17	1.04E-09	1.39E-08	2.05E-09	2.05E-09	1.14E-09	2.01E-08	1.57E-10	2.11E-09	3.20E-10	3.20E-10	1.76E-10	3.09E-09	8.55E-11	1.14E-09	1.42E-10	1.42E-10	7.05E-11	1.58E-09
1509	257575.33	4083653.17	1.03E-09	1.37E-08	2.03E-09	2.03E-09	1.13E-09	1.99E-08	1.56E-10	2.09E-09	3.16E-10	3.16E-10	1.74E-10	3.05E-09	8.45E-11	1.13E-09	1.41E-10	1.41E-10	6.97E-11	1.56E-09
1510	257550.99	4083654.17	1.01E-09	1.35E-08	2.00E-09	2.00E-09	1.12E-09	1.97E-08	1.54E-10	2.06E-09	3.13E-10	3.13E-10	1.72E-10	3.01E-09	8.35E-11	1.12E-09	1.39E-10	1.39E-10	6.88E-11	1.55E-09
1511	257526.66	4083655.17	1.00E-09	1.34E-08	1.98E-09	1.98E-09	1.10E-09	1.95E-08	1.52E-10	2.04E-09	3.09E-10	3.09E-10	1.70E-10	2.98E-09	8.26E-11	1.10E-09	1.38E-10	1.38E-10	6.81E-11	1.53E-09
1512	257502.33	4083656.17	9.90E-10	1.32E-08	1.96E-09	1.96E-09	1.09E-09	1.92E-08	1.50E-10	2.01E-09	3.05E-10	3.05E-10	1.68E-10	2.94E-09	8.16E-11	1.09E-09	1.36E-10	1.36E-10	6.73E-11	1.51E-09
1513	258319.66	4083431.69	1.46E-09	1.95E-08	2.89E-09	2.89E-09	1.61E-09	2.84E-08	2.22E-10	2.97E-09	4.51E-10	4.51E-10	2.48E-10	4.34E-09	1.20E-10	1.61E-09	2.01E-10	2.01E-10	9.92E-11	2.23E-09
1514	258342.25	4083440.05	1.51E-09	2.02E-08	2.98E-09	2.98E-09	1.66E-09	2.93E-08	2.29E-10	3.07E-09	4.65E-10	4.65E-10	2.56E-10	4.49E-09	1.24E-10	1.66E-09	2.07E-10	2.07E-10	1.03E-10	2.30E-09
1515	258364.84	4083448.42	1.56E-09	2.08E-08	3.08E-09	3.08E-09	1.72E-09	3.02E-08	2.36E-10	3.17E-09	4.81E-10	4.81E-10	2.64E-10	4.63E-09	1.28E-10	1.72E-09	2.14E-10	2.14E-10	1.06E-10	2.38E-09
1516	258387.43	4083456.78	1.61E-09	2.15E-08	3.18E-09	3.18E-09	1.77E-09	3.13E-08	2.44E-10	3.28E-09	4.97E-10	4.97E-10	2.73E-10	4.79E-09	1.33E-10	1.77E-09	2.21E-10	2.21E-10	1.09E-10	2.46E-09
1517	258410.02	4083465.15	1.67E-09	2.23E-08	3.29E-09	3.29E-09	1.84E-09	3.23E-08	2.53E-10	3.39E-09	5.14E-10	5.14E-10	2.83E-10	4.96E-09	1.37E-10	1.83E-09	2.29E-10	2.29E-10	1.13E-10	2.54E-09
1518	258432.61	4083473.51	1.73E-09	2.31E-08	3.41E-09	3.41E-09	1.90E-09	3.35E-08	2.62E-10	3.51E-09	5.33E-10	5.33E-10	2.93E-10	5.13E-09	1.42E-10	1.90E-09	2.37E-10	2.37E-10	1.17E-10	2.64E-09
1519	258455.2	4083481.87	1.79E-09	2.39E-08	3.54E-09	3.54E-09	1.97E-09	3.47E-08	2.71E-10	3.64E-09	5.52E-10	5.52E-10	3.03E-10	5.32E-09	1.47E-10	1.97E-09	2.46E-10	2.46E-10	1.22E-10	2.73E-09
1520	258477.79	4083490.24	1.86E-09	2.48E-08	3.67E-09	3.67E-09	2.04E-09	3.60E-08	2.82E-10	3.78E-09	5.73E-10	5.73E-10	3.15E-10	5.52E-09	1.53E-10	2.04E-09	2.55E-10	2.55E-10	1.26E-10	2.83E-09
1521	258500.38	4083498.6	1.93E-09	2.57E-08	3.80E-09	3.80E-09	2.12E-09	3.74E-08	2.92E-10	3.92E-09	5.94E-10	5.94E-10	3.27E-10	5.72E-09	1.59E-10	2.12E-09	2.64E-10	2.64E-10	1.31E-10	2.94E-09
1522	258522.97	4083506.97	2.00E-09	2.67E-08	3.95E-09	3.95E-09	2.20E-09	3.88E-08	3.04E-10	4.07E-09	6.17E-10	6.17E-10	3.39E-10	5.95E-09	1.65E-10	2.20E-09	2.75E-10	2.75E-10	1.36E-10	3.05E-09
1523	258545.57	4083515.33	2.08E-09	2.78E-08	4.11E-09	4.11E-09	2.29E-09	4.04E-08	3.16E-10	4.24E-09	6.42E-10	6.42E-10	3.53E-10	6.19E-09	1.72E-10	2.29E-09	2.86E-10	2.86E-10	1.41E-10	3.18E-09
1524	258568.16	4083523.69	2.17E-09	2.89E-08	4.28E-09	4.28E-09	2.39E-09	4.21E-08	3.29E-10	4.41E-09	6.69E-10	6.69E-10	3.68E-10	6.44E-09	1.79E-10	2.39E-09	2.97E-10	2.97E-10	1.47E-10	3.31E-09
1525	258590.75	4083532.06	2.26E-09	3.02E-08	4.46E-09	4.46E-09	2.49E-09	4.38E-08	3.43E-10	4.60E-09	6.97E-10	6.97E-10	3.83E-10	6.71E-09	1.86E-10	2.49E-09	3.10E-10	3.10E-10	1.53E-10	3.45E-09
1526	258613.34	4083540.42	2.36E-09	3.15E-08	4.66E-09	4.66E-09	2.60E-09	4.57E-08	3.58E-10	4.79E-09	7.27E-10	7.27E-10	4.00E-10	7.00E-09	1.94E-10	2.59E-09	3.23E-10	3.23E-10	1.60E-10	3.59E-09
1527	258635.93	4083548.79	2.46E-09	3.29E-08	4.86E-09	4.86E-09	2.71E-09	4.77E-08	3.73E-10	5.00E-09	7.59E-10	7.59E-10	4.17E-10	7.31E-09	2.03E-10	2.71E-09	3.38E-10	3.38E-10	1.67E-10	3.75E-09
1528	258658.52	4083557.15	2.57E-09	3.43E-08	5.08E-09	5.08E-09	2.83E-09	4.99E-08	3.90E-10	5.23E-09	7.93E-10	7.93E-10	4.36E-10	7.64E-09	2.12E-10	2.83E-09	3.53E-10	3.53E-10	1.75E-10	3.92E-09
1529	258681.11	4083565.51	2.69E-09	3.59E-08	5.31E-09	5.31E-09	2.96E-09	5.22E-08	4.08E-10	5.47E-09	8.30E-10	8.30E-10	4.56E-10	7.99E-09	2.22E-10	2.96E-09	3.69E-10	3.69E-10	1.83E-10	4.10E-09
1530	258703.7	4083573.88	2.81E-09	3.75E-08	5.56E-09	5.56E-09	3.10E-09	5.46E-08	4.27E-10	5.72E-09	8.67E-10	8.67E-10	4.77E-10	8.36E-09	2.32E-10	3.10E-09	3.86E-10	3.86E-10	1.91E-10	4.29E-09

1531	258726.29	4083582.24	2.94E-09	3.93E-08	5.81E-09	5.81E-09	3.24E-09	5.71E-08	4.46E-10	5.99E-09	9.08E-10	9.08E-10	4.99E-10	8.75E-09	2.42E-10	3.24E-09	4.04E-10	4.04E-10	2.00E-10	4.49E-09
1532	258748.88	4083590.61	3.08E-09	4.11E-08	6.08E-09	6.08E-09	3.39E-09	5.97E-08	4.67E-10	6.26E-09	9.49E-10	9.49E-10	5.22E-10	9.15E-09	2.54E-10	3.39E-09	4.22E-10	4.22E-10	2.09E-10	4.69E-09
1533	258771.48	4083598.97	3.22E-09	4.29E-08	6.35E-09	6.35E-09	3.54E-09	6.24E-08	4.88E-10	6.54E-09	9.92E-10	9.92E-10	5.45E-10	9.56E-09	2.65E-10	3.54E-09	4.41E-10	4.41E-10	2.18E-10	4.91E-09
1534	258794.07	4083607.33	3.36E-09	4.49E-08	6.64E-09	6.64E-09	3.70E-09	6.52E-08	5.10E-10	6.84E-09	1.04E-09	1.04E-09	5.70E-10	9.99E-09	2.77E-10	3.70E-09	4.61E-10	4.61E-10	2.28E-10	5.13E-09
1535	258816.66	4083615.7	3.51E-09	4.69E-08	6.94E-09	6.94E-09	3.87E-09	6.82E-08	5.33E-10	7.14E-09	1.08E-09	1.08E-09	5.96E-10	1.04E-08	2.89E-10	3.87E-09	4.82E-10	4.82E-10	2.39E-10	5.36E-09
1536	258839.25	4083624.06	3.67E-09	4.90E-08	7.24E-09	7.24E-09	4.04E-09	7.12E-08	5.56E-10	7.46E-09	1.13E-09	1.13E-09	6.22E-10	1.09E-08	3.02E-10	4.04E-09	5.03E-10	5.03E-10	2.49E-10	5.59E-09
1537	258861.84	4083632.43	3.82E-09	5.11E-08	7.56E-09	7.56E-09	4.21E-09	7.42E-08	5.80E-10	7.78E-09	1.18E-09	1.18E-09	6.49E-10	1.14E-08	3.15E-10	4.21E-09	5.25E-10	5.25E-10	2.60E-10	5.84E-09
1538	258884.43	4083640.79	3.99E-09	5.33E-08	7.88E-09	7.88E-09	4.39E-09	7.74E-08	6.05E-10	8.11E-09	1.23E-09	1.23E-09	6.76E-10	1.19E-08	3.29E-10	4.39E-09	5.47E-10	5.47E-10	2.71E-10	6.08E-09
1539	258907.02	4083649.15	4.15E-09	5.55E-08	8.21E-09	8.21E-09	4.57E-09	8.06E-08	6.30E-10	8.45E-09	1.28E-09	1.28E-09	7.04E-10	1.23E-08	3.42E-10	4.57E-09	5.70E-10	5.70E-10	2.82E-10	6.34E-09
1540	258929.61	4083657.52	4.32E-09	5.77E-08	8.54E-09	8.54E-09	4.76E-09	8.39E-08	6.56E-10	8.80E-09	1.33E-09	1.33E-09	7.33E-10	1.29E-08	3.56E-10	4.76E-09	5.93E-10	5.93E-10	2.94E-10	6.60E-09
1541	258952.2	4083665.88	4.49E-09	6.00E-08	8.88E-09	8.88E-09	4.95E-09	8.72E-08	6.82E-10	9.15E-09	1.39E-09	1.39E-09	7.62E-10	1.34E-08	3.70E-10	4.95E-09	6.17E-10	6.17E-10	3.05E-10	6.86E-09
1542	258974.79	4083674.25	4.67E-09	6.24E-08	9.23E-09	9.23E-09	5.14E-09	9.06E-08	7.09E-10	9.50E-09	1.44E-09	1.44E-09	7.92E-10	1.39E-08	3.85E-10	5.14E-09	6.41E-10	6.41E-10	3.17E-10	7.13E-09
1543	258997.38	4083682.61	4.85E-09	6.47E-08	9.58E-09	9.58E-09	5.34E-09	9.41E-08	7.36E-10	9.86E-09	1.50E-09	1.50E-09	8.22E-10	1.44E-08	3.99E-10	5.34E-09	6.65E-10	6.65E-10	3.29E-10	7.40E-09
1544	259019.98	4083690.97	5.02E-09	6.71E-08	9.93E-09	9.93E-09	5.54E-09	9.75E-08	7.63E-10	1.02E-08	1.55E-09	1.55E-09	8.52E-10	1.49E-08	4.14E-10	5.53E-09	6.90E-10	6.90E-10	3.41E-10	7.67E-09
1545	259042.57	4083699.34	5.20E-09	6.95E-08	1.03E-08	1.03E-08	5.73E-09	1.01E-07	7.90E-10	1.06E-08	1.61E-09	1.61E-09	8.83E-10	1.55E-08	4.29E-10	5.73E-09	7.14E-10	7.14E-10	3.54E-10	7.94E-09
1546	259065.16	4083707.7	5.38E-09	7.18E-08	1.06E-08	1.06E-08	5.93E-09	1.04E-07	8.16E-10	1.09E-08	1.66E-09	1.66E-09	9.12E-10	1.60E-08	4.43E-10	5.92E-09	7.38E-10	7.38E-10	3.66E-10	8.21E-09
1547	259087.75	4083716.07	5.55E-09	7.42E-08	1.10E-08	1.10E-08	6.12E-09	1.08E-07	8.43E-10	1.13E-08	1.71E-09	1.71E-09	9.42E-10	1.65E-08	4.58E-10	6.12E-09	7.62E-10	7.62E-10	3.77E-10	8.48E-09
1548	259110.34	4083724.43	5.73E-09	7.65E-08	1.13E-08	1.13E-08	6.31E-09	1.11E-07	8.69E-10	1.17E-08	1.77E-09	1.77E-09	9.72E-10	1.70E-08	4.72E-10	6.31E-09	7.86E-10	7.86E-10	3.89E-10	8.74E-09
1549	259132.93	4083732.79	5.90E-09	7.88E-08	1.17E-08	1.17E-08	6.50E-09	1.14E-07	8.95E-10	1.20E-08	1.82E-09	1.82E-09	1.00E-09	1.75E-08	4.86E-10	6.49E-09	8.09E-10	8.09E-10	4.01E-10	9.00E-09
1550	259155.52	4083741.16	6.06E-09	8.09E-08	1.20E-08	1.20E-08	6.68E-09	1.18E-07	9.20E-10	1.23E-08	1.87E-09	1.87E-09	1.03E-09	1.80E-08	4.99E-10	6.67E-09	8.32E-10	8.32E-10	4.12E-10	9.25E-09
1551	259178.11	4083749.52	6.22E-09	8.30E-08	1.23E-08	1.23E-08	6.85E-09	1.21E-07	9.43E-10	1.26E-08	1.92E-09	1.92E-09	1.05E-09	1.85E-08	5.12E-10	6.84E-09	8.53E-10	8.53E-10	4.22E-10	9.48E-09
1552	259200.7	4083757.89	6.36E-09	8.50E-08	1.26E-08	1.26E-08	7.01E-09	1.24E-07	9.66E-10	1.30E-08	1.96E-09	1.96E-09	1.08E-09	1.89E-08	5.25E-10	7.01E-09	8.74E-10	8.74E-10	4.32E-10	9.71E-09
1553	259223.29	4083766.25	6.50E-09	8.68E-08	1.28E-08	1.28E-08	7.16E-09	1.26E-07	9.87E-10	1.32E-08	2.01E-09	2.01E-09	1.10E-09	1.93E-08	5.36E-10	7.16E-09	8.93E-10	8.93E-10	4.42E-10	9.92E-09
1554	259245.88	4083774.61	6.63E-09	8.86E-08	1.31E-08	1.31E-08	7.31E-09	1.29E-07	1.01E-09	1.35E-08	2.05E-09	2.05E-09	1.12E-09	1.97E-08	5.47E-10	7.30E-09	9.10E-10	9.10E-10	4.51E-10	1.01E-08
1555	259268.48	4083782.98	6.75E-09	9.01E-08	1.33E-08	1.33E-08	7.43E-09	1.31E-07	1.02E-09	1.37E-08	2.08E-09	2.08E-09	1.14E-09	2.01E-08	5.56E-10	7.43E-09	9.26E-10	9.26E-10	4.58E-10	1.03E-08
1556	259291.07	4083791.34	6.85E-09	9.15E-08	1.35E-08	1.35E-08	7.55E-09	1.33E-07	1.04E-09	1.39E-08	2.11E-09	2.11E-09	1.16E-09	2.04E-08	5.65E-10	7.54E-09	9.40E-10	9.40E-10	4.66E-10	1.05E-08
1557	259313.66	4083799.71	6.94E-09	9.27E-08	1.37E-08	1.37E-08	7.65E-09	1.35E-07	1.05E-09	1.41E-08	2.14E-09	2.14E-09	1.18E-09	2.06E-08	5.72E-10	7.64E-09	9.53E-10	9.53E-10	4.72E-10	1.06E-08
1558	259336.25	4083808.07	7.02E-09	9.38E-08	1.39E-08	1.39E-08	7.74E-09	1.36E-07	1.07E-09	1.43E-08	2.17E-09	2.17E-09	1.19E-09	2.09E-08	5.79E-10	7.73E-09	9.64E-10	9.64E-10	4.77E-10	1.07E-08
1559	259358.84	4083816.43	7.09E-09	9.47E-08	1.40E-08	1.40E-08	7.81E-09	1.38E-07	1.08E-09	1.44E-08	2.19E-09	2.19E-09	1.20E-09	2.11E-08	5.84E-10	7.81E-09	9.73E-10	9.73E-10	4.82E-10	1.08E-08
1560	259391.36	4083846.75	7.32E-09	9.78E-08	1.45E-08	1.45E-08	8.07E-09	1.42E-07	1.11E-09	1.49E-08	2.26E-09	2.26E-09	1.24E-09	2.18E-08	6.04E-10	8.06E-09	1.01E-09	1.01E-09	4.98E-10	1.12E-08
1561	259401.29	4083868.69	7.50E-09	1.00E-07	1.48E-08	1.48E-08	8.26E-09	1.46E-07	1.14E-09	1.53E-08	2.31E-09	2.31E-09	1.27E-09	2.23E-08	6.18E-10	8.25E-09	1.03E-09	1.03E-09	5.09E-10	1.14E-08
1562	259411.22	4083890.64	7.66E-09	1.02E-07	1.51E-08	1.51E-08	8.44E-09	1.49E-07	1.16E-09	1.56E-08	2.36E-09	2.36E-09	1.30E-09	2.28E-08	6.31E-10	8.43E-09	1.05E-09	1.05E-09	5.21E-10	1.17E-08
1563	259421.15	4083912.59	7.81E-09	1.04E-07	1.54E-08	1.54E-08	8.61E-09	1.52E-07	1.19E-09	1.59E-08	2.41E-09	2.41E-09	1.33E-09	2.32E-08	6.44E-10	8.60E-09	1.07E-09	1.07E-09	5.31E-10	1.19E-08
1564	259431.08	4083934.54	7.95E-09	1.06E-07	1.57E-08	1.57E-08	8.76E-09	1.54E-07	1.21E-09	1.62E-08	2.45E-09	2.45E-09	1.35E-09	2.36E-08	6.55E-10	8.75E-09	1.09E-09	1.09E-09	5.40E-10	1.21E-08
1565	259441.01	4083956.49	8.08E-09	1.08E-07	1.60E-08	1.60E-08	8.90E-09	1.57E-07	1.23E-09	1.64E-08	2.49E-09	2.49E-09	1.37E-09	2.40E-08	6.66E-10	8.89E-09	1.11E-09	1.11E-09	5.49E-10	1.23E-08
1566	259450.94	4083978.43	8.19E-09	1.09E-07	1.62E-08	1.62E-08	9.02E-09	1.59E-07	1.24E-09	1.67E-08	2.53E-09	2.53E-09	1.39E-09	2.43E-08	6.75E-10	9.02E-09	1.12E-09	1.12E-09	5.56E-10	1.25E-08
1567	259460.87	4084000.38	8.28E-09	1.11E-07	1.64E-08	1.64E-08	9.13E-09	1.61E-07	1.26E-09	1.69E-08	2.56E-09	2.56E-09	1.41E-09	2.46E-08	6.83E-10	9.12E-09	1.14E-09	1.14E-09	5.63E-10	1.26E-08
1568	259470.79	4084022.33	8.36E-09	1.12E-07	1.65E-08	1.65E-08	9.21E-09	1.62E-07	1.27E-09	1.70E-08	2.58E-09	2.58E-09	1.42E-09	2.49E-08	6.89E-10	9.20E-09	1.15E-09	1.15E-09	5.68E-10	1.28E-08
1569	259480.72	4084044.28	8.42E-09	1.12E-07	1.66E-08	1.66E-08	9.28E-09	1.63E-07	1.28E-09	1.71E-08	2.60E-09	2.60E-09	1.43E-09	2.50E-08	6.94E-10	9.27E-09	1.16E-09	1.16E-09	5.72E-10	1.28E-08
1570	259490.65	4084066.23	8.46E-09	1.13E-07	1.67E-08	1.67E-08	9.32E-09	1.64E-07	1.28E-09	1.72E-08	2.61E-09	2.61E-09	1.43E-09	2.52E-08	6.97E-10	9.31E-09	1.16E-09	1.16E-09	5.75E-10	1.29E-08
1571	259500.58	4084088.17	8.48E-09	1.13E-07	1.68E-08	1.68E-08	9.34E-09	1.65E-07	1.29E-09	1.72E-08	2.62E-09	2.62E-09	1.44E-09	2.52E-08	6.99E-10	9.33E-09	1.16E-09	1.16E-09	5.76E-10	1.29E-08
1572	259510.51	4084110.12	8.48E-09	1.13E-07	1.67E-08	1.67E-08	9.34E-09	1.65E-07	1.29E-09	1.72E-08	2.62E-09	2.62E-09	1.44E-09	2.52E-08	6.99E-10	9.33E-09	1.16E-09	1.16E-09	5.76E-10	1.29E-08
1573	259520.44	4084132.07	8.45E-09	1.13E-07	1.67E-08	1.67E-08	9.31E-09	1.64E-07	1.28E-09	1.72E-08	2.61E-09	2.61E-09	1.43E-09	2.51E-08	6.97E-10	9.31E-09	1.16E-09	1.16E-09	5.74E-10	1.29E-08
1574	259530.37	4084154.02	8.41E-09	1.12E-07	1.66E-08	1.66E-08	9.27E-09	1.63E-07	1.28E-09	1.71E-08	2.60E-09	2.60E-09	1.43E-09	2.50E-08	6.93E-10	9.26E-09	1.15E-09	1.15E-09	5.71E-10	1.28E-08
1575	259540.3	4084175.97	8.35E-09	1.12E-07	1.65E-08	1.65E-08	9.20E-09	1.62E-07	1.27E-09	1.70E-08	2.58E-09	2.58E-09	1.42E-09	2.48E-08	6.88E-10	9.19E-09	1.15E-09	1.15E-09	5.67E-10	1.27E-08
1576	259550.23	4084197.91	8.27E-09	1.10E-07	1.63E-08	1.63E-08	9.11E-09	1.60E-07	1.25E-09	1.68E-08	2.55E-09	2.55E-09	1.40E-09	2.46E-08	6.81E-10	9.10E-09	1.13E-09	1.13E-09	5.62E-10	1.26E-08
1577	259560.16	4084219.86	8.17E-09	1.09E-07	1.61E-08	1.61E-08	9.00E-09	1.59E-07	1.24E-09	1.66E-08	2.52E-09	2.52E-09	1.39E-09	2.43E-08	6.73E-10	8.99E-09	1.12E-09	1.12E-09	5.55E-10	1.25E-08
1578	259570.09	4084241.81	8.06E-09	1.08E-07	1.59E-08	1.59E-08	8.88E-09	1.56E-07	1.22E-09	1.64E-08	2.49E-09	2.49E-09	1.37E-09	2.40E-08	6.64E-10	8.87E-09	1.11E-09	1.11E-09	5.47E-10	1.23E-08
1579	259580.02	4084263.76	7.93E-09	1.06E-07	1.57E-08	1.57E-08	8.74E-09	1.54E-07	1.20E-09	1.61E-08	2.45E-09	2.45E-09	1.34E-09	2.36E-08	6.54E-10	8.73E-09	1.09E-09	1.09E-09	5.39E-10	1.21E-08
1580	259589.95	4084285.71	7.80E-09	1.04E-07	1.54E-08	1.54E-08	8.59E-09	1.51E-07	1.18E-09	1.59E-08	2.41E-09	2.41E-09	1.32E-09	2.32E-08	6.43E-10	8.58E-09	1.07E-09	1.07E-09	5.30E-10	1.19E-08
1581	259599.88	4084307.65	7.65E-09	1.02E-07	1.51E-08	1.51E-08	8.43E-09	1.49E-07	1.16E-09	1.56E-08	2.36E-09	2.36E-09	1.30E-09	2.28E-08	6.31E-10	8.43E-09	1.05E-09	1.05E-09	5.20E-10	1.17E-08
1582	259609.81	4084329.6	7.51E-09	1.00E-07	1.48E-08	1.48E-08	8.28E-09	1.46E-07	1.14E-09	1.53E-08	2.32E-09	2.32E-09	1.27E-09	2.23E-08	6.19E-10	8.27E-09	1.03E-09	1.03E-09	5.10E-10	1.15E-08
1583	259619.74	4084351.55	7.37E-09	9.85E-08	1.46E-08	1.46E-08	8.12E-09	1.43E-07	1.12E-09	1.50E-08	2.27E-09	2.27E-09	1.25E-09	2.19E-08	6.08E-10	8.12E-09	1.01E-09	1.01E-09	5.01E-10	1.12E-08
1584	259629.67	4084373.5	7.23E-09	9.66E-08	1.43E-08	1.43E-08	7.97E-09	1.40E-07	1.10E-09	1.47E-08	2.23E-09	2.23E-09	1.23E-09	2.15E-08	5.96E-10	7.96E-09	9.93E-10	9.93E-10	4.91E-10	1.10E-08
1585	259639.59	4084395.45	7.10E-09	9.48E-08	1.40E-08	1.40E-08	7.82E-09	1.38E-07	1.08E-09	1.44E-08	2.19E-09	2.19E-09	1.20E-09	2.11E-08	5.85E-10	7.81E-09	9.74E-10	9.74E-10	4.82E-10	1.08E-08
1586	259649.52	4084417.39	6.99E-09	9.33E-08	1.38E-08	1.38E-08	7.70E-09	1.36E-07	1.06E-09	1.42E-08	2.16E-09	2.16E-09	1.19E-09	2.08E-08	5.76E-10	7.69E-09	9.59E-10	9.59E-10	4.75E-10	1.07E-08
1587	259659.45	4084439.34	6.86E-09	9.16E-08	1.35E-08	1.35E-08	7.55E-09	1.33E-07	1.04E-09	1.39E-08	2.12E-09	2.12E-09	1.16E-09	2.04E-08	5.65E-10	7.55E-09	9.41E-10	9.41E-10	4.66E-10	1.05E-08
1588	259669.38	4084461.29	6.72E-09	8.98E-08	1.33E-08	1.33E-08	7.40E-09	1.30E-07	1.02E-09	1.37E-08	2.07E-09	2.07E-09	1.14E-09	2.00E-08	5.54E-10	7.40E-09	9.23E-10	9.23E-10	4.57E-10	1.03E-08
1589	259679.31	4084483.24	6.57E-09	8.78E-08	1.30E-08	1.30E-08	7.24E-09	1.28E-07	9.98E-10	1.34E-08	2.03E-09	2.03E-09	1.12E-09	1.95E-08	5.42E-10	7.24E-09	9.03E-10	9.03E-10	4.47E-10	1.00E-08
1590	259689.24	4084505.19	6.42E-09	8.58E-08	1.27E-08	1.27E-08	7.07E-09	1.25E-07	9.75E-10	1.31E-08	1.98E-09	1.98E-09	1.09E-09	1.91E-08	5.29E-10	7.07E-09	8.82E-10	8.82E-10	4.36E-10	9.80E-09
1591	259699.17	4084527.13	6.26E-09	8.36E-08	1.24E-08	1.24E-08	6.89E-09	1.21E-07	9.49E-10	1.27E-08	1.93E-09	1.93E-09	1.06E-09	1.86E-08	5.16E-10	6.89E-09	8.59E-10	8.59E-10	4.25E-10	9.55E-09
1592	259709.1	4084549.08	6.08E-09	8.12E-08	1.20E-08	1.20E-08	6.69E-09	1.18E-07	9.22E-10	1.24E-08	1.87E-09	1.87E-09	1.03E-09	1.81E-08	5.01E-10	6.69E-09	8.34E-10	8.34E-10	4.13E-10	9.27E-09
1593	259719.03	4084571.03	5.89E-09	7.86E-08	1.16E-08	1.16E-08	6.48E-09	1.14E-07	8.93E-10	1.20E-08	1.82E-09	1.82E-09	9.98E-10	1.75E-08	4.85E-10	6.48E-09	8.08E-10	8.08E-10	4.00E-10	8.98E-09
1594	259728.96	4084592.98	5.69E-09	7.60E-08	1.12E-08	1.12E-08	6.27E-09	1.10E-07	8.63E-10	1.16E-08	1.75E-09	1.75E-09	9.65E-10	1.69E-08	4.69E-10	6.26E-09	7.81E-10	7.81E-10	3.86E-10	8.68E-09
1595	259738.89	4084614.93	5.49E-09	7.33E-08	1.08E-08	1.08E-08	6.05E-09	1.07E-07	8.33E-10	1.12E-08	1.69E-09	1.69E-09	9.31E-10	1.63E-08	4.52E-10	6.04E-09	7.54E-10	7.54E-10	3.73E-10	8.38E-09
1596	259748.82	4084636.87	5.29E-09	7.07E-08	1.05E-08	1.05E-08	5.83E-09	1.03E-07	8.03E-10	1.08E-08	1.63E-09	1.63E-09	8.98E-10	1.57E-08	4.36E-10	5.83E-09	7.27E-10	7.27E-10	3.60E-10	8.08E-09
1597	259758.75	4084658.82	5.11E-09	6.83E-08	1.01E-08	1.01E-08	5.63E-09	9.92E-08	7.76E-10	1.04E-08	1.58E-09	1.58E-09	8.67E-10	1.52E-08	4.21E-10	5.63E-09	7.02E-10	7.02E-10	3.47E-10	7.80E-09
1598	259768.68	4084680.77	4.94E-09	6.60E-08	9.77E-09	9.77E-09	5.45E-09	9.59E-08	7.50E-10	1.01E-08	1.52E-09	1.52E-09	8.38E-10	1.47E-08	4.07E-10	5.44E-09	6.78E-10	6.78E-10	3.36E-10	7.54E-09
1599	259778.61	4084702.72	4.79E-09	6.40E-08	9.47E-09	9.47E-09	5.28E-09	9.30E-08	7.27E-10	9.75E-09	1.48E-09	1.48E-09	8.13E-10	1.42E-08	3.95E-10	5.27E-09	6.58E-10	6.58E-10	3.26E-10	7.31E-09
1600	259788.54	4084724.67	4.65E-09	6.22E-08	9.20E-09	9.20E-09	5.13E-09	9.03E-08	7.06E-10	9.47E-09	1.44E-09	1.44E-09	7.90E-10	1.38E-08	3.84E-10	5.12E-09	6.39E-10	6.39E-10	3.16E-10	7.10E-09
1601	259798.47	4084746.61	4.53E-09	6.05E-08	8.95E-09	8.95E-09	4.99E-09	8.79E-08	6.87E-10	9.22E-09	1.40E-09	1.40E-09	7.68E-10	1.35E-08	3.73E-10	4.99E-09	6.22E-10	6.22E-10	3.08E-10	6.91E-09
1602	259808.39	4084768.56	4.41E-09	5.89E-08	8.72E-09	8.72E-09	4.86E-09	8.56E-08	6.69E-10	8.98E-09	1.36E-09	1.36E-09	7.48E-10	1.31E-08	3.64E-10	4.86E-09	6.06E-10	6.06E-10	3.00E-10	6.73E-09
1603	259818.32	4084790.51	4.30E-09	5.74E-08	8.49E-09	8.49E-09	4.73E-09	8.34E-08	6.52E-10	8.74E-09	1.33E-09	1.33E-09	7.29E-10	1.28E-08	3.54E-10	4.73E-09	5.90E-10	5.90E-10	2.92E-10	6.56E-09
1604	259828.25	4084812.46	4.18E-09	5.58E-08	8.26E-09	8.26E-09	4.61E-09	8.11E-08	6.34E-10	8.51E-09	1.29E-09	1.29E-09	7.09E-10	1.24E-08	3.45E-10	4.60E-09	5.74E-10	5.74E-10	2.84E-10	6.38E-09
1605	259838.18	4084834.41	4.06E-09	5.42E-08	8.03E-09	8.03E-09	4.47E-09	7.88E-08	6.16E-10	8.26E-09	1.25E-09	1.25E-09	6.89E-10	1.21E-08	3.35E-10	4.47E-09	5.58E-10	5.58E-10	2.76E-10	6.20E-09
1606	259848.11	4084856.35	3.94E-09	5.26E-08	7.78E-09	7.78E-09	4.34E-09	7.64E-08	5.98E-10	8.01E-09	1.21E-09	1.21E-09	6.68E-10	1.17E-08	3.25E-10	4.33E-09	5.41E-10	5.41E-10	2.68E-10	6.01E-09
1607	258297.07	4083423.33	1.42E-09	1.89E-08	2.80E-09	2.80E-09	1.56E-09	2.75E-08	2.15E-10	2.88E-09	4.37E-10	4.37E-10	2.40E-10	4.21E-09	1.17E-10	1.56E-09	1.95E-10	1.95E-10	9.63E-11	2.16E-09
1608	258272.73	4083424.33	1.39E-09	1.86E-08	2.75E-09	2.75E-09	1.53E-09	2.70E-08	2.11E-10	2.83E-09	4.29E-10	4.29E-10	2.36E-10	4.13E-09	1.15E-10	1.53E-09	1.91E-10	1.91E-10	9.44E-11	2.12E-09
1609	258248.4	4083425.33	1.36E-09	1.82E-08	2.69E-09	2.69E-09	1.50E-09	2.65E-08	2.07E-10	2.77E-09	4.21E-10	4.21E-10	2.31E-10	4.05E-09	1.12E-10	1.50E-09	1.87E-10	1.87E-10	9.26E-11	2.08E-09
1610	258224.07	4083426.33	1.34E-09	1.79E-08	2.64E-09	2.64E-09	1.47E-09	2.60E-08	2.03E-10	2.72E-09	4.13E-10	4.13E-10	2.27E-10	3.98E-09	1.10E-10	1.47E-09	1.84E-10	1.84E-10	9.09E-11	2.04E-09
1611	258199.74	4083427.33	1.31E-09	1.75E-08	2.60E-09	2.60E-09	1.45E-09	2.55E-08	1.99E-10	2.67E-09	4.05E-10	4.05E-10	2.23E-10	3.91E-09	1.08E-10	1.45E-09	1.80E-10	1.80E-10	8.92E-11	2.00E-09
1612	258175.41	4083428.33	1.29E-09	1.72E-08	2.55E-09	2.55E-09	1.42E-09	2.50E-08	1.96E-10	2.63E-09	3.98E-10	3.98E-10	2.19E-10	3.84E-09	1.06E-10	1.42E-09	1.77E-10	1.77E-10	8.77E-11	1.97E-09
1613	258151.07	4083429.33	1.27E-09	1.69E-08	2.50E-09	2.50E-09	1.40E-09	2.46E-08	1.92E-10	2.58E-09	3.91E-10	3.91E-10	2.15E-10	3.77E-09	1.04E-10	1.39E-09	1.74E-10	1.74E-10	8.61E-11	1.93E-09
1614	258126.74	4083430.33	1.24E-09	1.66E-08	2.46E-09	2.46E-09	1.37E-09	2.41E-08	1.89E-10	2.53E-09	3.84E-10	3.84E-10	2.11E-10	3.70E-09	1.03E-10	1.37E-09	1.71E-10	1.71E-10	8.45E-11	1.90E-09
1615	258102.41	4083431.33	1.22E-09	1.63E-08	2.41E-09	2.41E-09	1.34E-09	2.37E-08	1.85E-10	2.48E-09	3.77E-10	3.77E-10	2.07E-10	3.63E-09	1.01E-10	1.34E-09	1.68E-10	1.68E-10	8.29E-11	1.86E-09
1616	258078.08	4083432.33	1.20E-09	1.60E-08	2.37E-09	2.37E-09	1.32E-09	2.32E-08	1.82E-10	2.44E-09	3.69E-10	3.69E-10	2.03E-10	3.56E-09	9.87E-11	1.32E-09	1.64E-10	1.64E-10	8.14E-11	1.83E-09
1617	258053.75	4083433.33	1.18E-09	1.57E-08	2.32E-09	2.32E-09	1.30E-09	2.28E-08	1.78E-10	2.39E-09	3.63E-10	3.63E-10	1.99E-10	3.50E-09	9.69E-11	1.29E-09	1.61E-10	1.61E-10	7.99E-11	1.79E-09
1618	258029.42	4083434.33	1.15E-09	1.54E-08	2.28E-09	2.28E-09	1.27E-09	2.24E-08	1.75E-10	2.34E-09	3.56E-10	3.56E-10	1.95E-10	3.43E-09	9.50E-11	1.27E-09	1.58E-10	1.58E-10	7.83E-11	1.76E-09
1619	258005.08	4083435.33	1.13E-09	1.51E-08	2.23E-09	2.23E-09	1.25E-09	2.19E-08	1.72E-10	2.30E-09	3.49E-10	3.49E-10	1.92E-10	3.36E-09	9.32E-11	1.24E-09	1.55E-10	1.55E-10	7.68E-11	1.73E-09
1620	257980.75	4083436.33	1.11E-09	1.48E-08	2.19E-09	2.19E-09	1.22E-09	2.15E-08	1.68E-10	2.25E-09	3.42E-10	3.42E-10	1.88E-10	3.29E-09	9.13E-11	1.22E-09	1.52E-10	1.52E-10	7.53E-11	1.69E-09
1621	257956.42	4083437.33	1.09E-09	1.45E-08	2.15E-09	2.15E-09	1.20E-09	2.11E-08	1.65E-10	2.21E-09	3.35E-10	3.35E-10	1.84E-10	3.23E-09	8.95E-11	1.20E-09	1.49E-10	1.49E-10	7.38E-11	1.66E-09
1622	257932.09	4083438.33	1.07E-09	1.42E-08	2.11E-09	2.11E-09	1.17E-09	2.07E-08	1.62E-10	2.17E-09	3.29E-10	3.29E-10	1.81E-10	3.17E-09	8.78E-11	1.17E-09	1.46E-10	1.46E-10	7.24E-11	1.63E-09
1623	257907.76	4083439.33	1.04E-09	1.39E-08	2.06E-09	2.06E-09	1.15E-09	2.03E-08	1.58E-10	2.12E-09	3.22E-10	3.22E-10	1.77E-10	3.10E-09	8.60E-11	1.15E-09	1.43E-10	1.43E-10	7.09E-11	1.59E-09
1624	257883.42	4083440.33	1.02E-09	1.37E-08	2.02E-09	2.02E-09	1.13E-09	1.99E-08	1.55E-10	2.08E-09	3.16E-10	3.16E-10	1.74E-10	3.04E-09	8.44E-11	1.13E-09	1.41E-10	1.41E-10	6.96E-11	1.56E-09
1625	257859.09	4083441.33	1.01E-09	1.34E-08	1.99E-09	1.99E-09	1.11E-09	1.95E-08	1.53E-10	2.05E-09	3.10E-10	3.10E-10	1.71E-10	2.99E-09	8.29E-11	1.11E-09	1.38E-10	1.38E-10	6.83E-11	1.53E-09
1626	257834.76	4083442.33	9.87E-10	1.32E-08	1.95E-09	1.95E-09	1.09E-09	1.92E-08	1.50E-10	2.01E-09	3.04E-10	3.04E-10	1.67E-10	2.93E-09	8.13E-11	1.09E-09	1.35E-10	1.35E-10	6.70E-11	1.51E-09
1627	257810.43	4083443.33	9.70E-10	1.30E-08	1.92E-09	1.92E-09	1.07E-09	1.88E-08	1.47E-10	1.97E-09	2.99E-10	2.99E-10	1.64E-10	2.88E-09	7.99E-11	1.07E-09	1.33E-10	1.33E-10	6.59E-11	1.48E-09
1628	257786.1	4083444.33	9.53E-10	1.27E-08	1.88E-09	1.88E-09	1.05E-09	1.85E-08	1.45E-10	1.94E-09	2.94E-10	2.94E-10	1.62E-10	2.83E-09	7.85E-11	1.05E-09	1.31E-10	1.31E-10	6.47E-11	1.45E-09
1629	257761.77	4083445.33	9.37E-10	1.25E-08	1.85E-09	1.85E-09	1.03E-09	1.82E-08	1.42E-10	1.91E-09	2.89E-10	2.89E-10	1.59E-10	2.79E-09	7.72E-11	1.03E-09	1.29E-10	1.29E-10	6.37E-11	1.43E-09
1630	257737.43	4083446.33	9.22E-10	1.23E-08	1.82E-09	1.82E-09	1.02E-09	1.79E-08	1.40E-10	1.88E-09	2.84E-10	2.84E-10	1.56E-10	2.74E-09	7.60E-11	1.01E-09	1.27E-10	1.27E-10	6.26E-11	1.41E-09
1631	257713.1	4083447.33	9.08E-10	1.21E-08	1.79E-09	1.79E-09	1.00E-09	1.76E-08	1.38E-10	1.85E-09	2.80E-10	2.80E-10	1.54E-10	2.70E-09	7.48E-11	9.99E-10	1.25E-10	1.25E-10	6.17E-11	1.38E-09
1632	257688.77	4083448.33	8.94E-10	1.19E-08	1.77E-09	1.77E-09	9.85E-10	1.73E-08	1.36E-10	1.82E-09	2.76E-10	2.76E-10	1.52E-10	2.66E-09	7.37E-11	9.84E-10	1.23E-10	1.23E-10	6.07E-11	1.36E-09
1633	257664.44	4083449.33	8.81E-10	1.18E-08	1.74E-09	1.74E-09	9.71E-10	1.71E-08	1.34E-10	1.79E-09	2.72E-10	2.72E-10	1.50E-10	2.62E-09	7.26E-11	9.70E-10	1.21E-10	1.21E-10	5.99E-11	1.34E-09
1634	257640.11	4083450.33	8.69E-10	1.16E-08	1.72E-09	1.72E-09	9.57E-10	1.69E-08	1.32E-10	1.77E-09	2.68E-10	2.68E-10	1.47E-10	2.58E-09	7.16E-11	9.57E-10	1.19E-10	1.19E-10	5.90E-11	1.33E-09
1635	257615.77	4083451.33	8.56E-10	1.14E-08	1.69E-09	1.69E-09	9.44E-10	1.66E-08	1.30E-10	1.74E-09	2.64E-10	2.64E-10	1.45E-10	2.55E-09	7.06E-11	9.43E-10	1.18E-10	1.18E-10	5.82E-11	1.31E-09
1636	257591.44	4083452.33	8.46E-10	1.13E-08	1.67E-09	1.67E-09	9.32E-10	1.64E-08	1.28E-10	1.72E-09	2.61E-10	2.61E-10	1.43E-10	2.51E-09	6.97E-11	9.31E-10	1.16E-10	1.16E-10	5.75E-11	1.29E-09
1637	257567.11	4083453.34	8.35E-10	1.12E-08	1.65E-09	1.65E-09	9.20E-10	1.62E-08	1.27E-10	1.70E-09	2.58E-10	2.58E-10	1.42E-10	2.48E-09	6.88E-11	9.19E-10	1.15E-10	1.15E-10	5.67E-11	1.27E-09
1638	257542.78	4083454.34	8.24E-10	1.10E-08	1.63E-09	1.63E-09	9.08E-10	1.60E-08	1.25E-10	1.68E-09	2.54E-10	2.54E-10	1.40E-10	2.45E-09	6.79E-11	9.07E-10	1.13E-10	1.13E-10	5.60E-11	1.26E-09
1639	257518.45	4083455.34	8.13E-10	1.09E-08	1.61E-09	1.61E-09	8.96E-10	1.58E-08	1.23E-10	1.65E-09	2.51E-10	2.51E-10	1.38E-10	2.42E-09	6.70E-11	8.95E-10	1.12E-10	1.12E-10	5.53E-11	1.24E-09
1640	257494.12	4083456.34	8.04E-10	1.07E-08	1.59E-09	1.59E-09	8.86E-10	1.56E-08	1.22E-10	1.64E-09	2.48E-10	2.48E-10	1.36E-10	2.39E-09	6.63E-11	8.85E-10	1.10E-10	1.10E-10	5.46E-11	1.23E-09
1641	257530.75	4084956	6.15E-08	8.21E-07	1.21E-07	1.21E-07	6.77E-08	1.19E-06	9.33E-09	1.25E-07	1.90E-08	1.90E-08	1.04E-08	1.83E-07	5.07E-09	6.77E-08	8.44E-09	8.44E-09	4.18E-09	9.38E-08
1642	257532.4	4085000.56	1.63E-07	2.17E-06	3.22E-07	3.22E-07	1.79E-07	3.16E-06	2.47E-08	3.31E-07	5.02E-08	5.02E-08	2.76E-08	4.84E-07	1.34E-08	1.79E-07	2.24E-08	2.24E-08	1.11E-08	2.48E-07
1643	257534.05	4085045.12	2.59E-07	3.46E-06	5.11E-07	5.11E-07	2.85E-07	5.02E-06	3.93E-08	5.27E-07	7.98E-08	7.98E-08	4.39E-08	7.69E-07	2.13E-08	2.85E-07	3.55E-08	3.55E-08	1.76E-08	3.95E-07
1644	257534.87	4085067.4	2.89E-07	3.86E-06	5.72E-07	5.72E-07	3.19E-07	5.62E-06	4.39E-08	5.89E-07	8.93E-08	8.93E-08	4.91E-08	8.60E-07	2.38E-08	3.19E-07	3.97E-08	3.97E-08	1.97E-08	4.41E-07
1645	257536.53	4085111.96	3.25E-07	4.35E-06	6.43E-07	6.43E-07	3.58E-07	6.31E-06	4.94E-08	6.62E-07	1.00E-07	1.00E-07	5.52E-08	9.67E-07	2.68E-08	3.58E-07	4.47E-08	4.47E-08	2.21E-08	4.96E-07
1646	257538.18	4085156.53	3.15E-07	4.20E-06	6.22E-07	6.22E-07	3.47E-07	6.11E-06	4.78E-08	6.40E-07	9.71E-08	9.71E-08	5.34E-08	9.36E-07	2.59E-08	3.46E-07	4.32E-08	4.32E-08	2.14E-08	4.80E-07
1647	257512.39	4084939.02	3.85E-08	5.14E-07	7.60E-08	7.60E-08	4.24E-08	7.46E-07	5.84E-09	7.83E-08	1.19E-08	1.19E-08	6.52E-09	1.14E-07	3.17E-09	4.23E-08	5.28E-09	5.28E-09	2.61E-09	5.87E-08
1648	257506.59	4084979.2	6.45E-08	8.61E-07	1.27E-07	1.27E-07	7.10E-08	1.25E-06	9.79E-09	1.31E-07	1.99E-08	1.99E-08	1.09E-08	1.92E-07	5.32E-09	7.10E-08	8.85E-09	8.85E-09	4.38E-09	9.84E-08

1649	257508.24	4085023.76	1.23E-07	1.64E-06	2.43E-07	2.43E-07	1.36E-07	2.39E-06	1.87E-08	2.50E-07	3.80E-08	3.80E-08	2.09E-08	3.66E-07	1.01E-08	1.35E-07	1.69E-08	1.69E-08	8.36E-09	1.88E-07
1650	257509.89	4085068.33	1.75E-07	2.34E-06	3.47E-07	3.47E-07	1.93E-07	3.41E-06	2.66E-08	3.57E-07	5.41E-08	5.41E-08	2.98E-08	5.22E-07	1.45E-08	1.93E-07	2.41E-08	2.41E-08	1.19E-08	2.68E-07
1651	257511.54	4085112.89	2.07E-07	2.77E-06	4.10E-07	4.10E-07	2.29E-07	4.03E-06	3.15E-08	4.22E-07	6.40E-08	6.40E-08	3.52E-08	6.17E-07	1.71E-08	2.28E-07	2.85E-08	2.85E-08	1.41E-08	3.17E-07
1652	257513.19	4085157.45	2.13E-07	2.84E-06	4.21E-07	4.21E-07	2.35E-07	4.13E-06	3.23E-08	4.33E-07	6.57E-08	6.57E-08	3.61E-08	6.33E-07	1.76E-08	2.34E-07	2.92E-08	2.92E-08	1.45E-08	3.25E-07
1653	257487.41	4084939.95	3.17E-08	4.24E-07	6.27E-08	6.27E-08	3.49E-08	6.16E-07	4.81E-09	6.45E-08	9.79E-09	9.79E-09	5.38E-09	9.43E-08	2.61E-09	3.49E-08	4.35E-09	4.35E-09	2.16E-09	4.84E-08
1654	257517.99	4084896.14	2.54E-08	3.39E-07	5.02E-08	5.02E-08	2.80E-08	4.93E-07	3.86E-09	5.17E-08	7.84E-09	7.84E-09	4.31E-09	7.56E-08	2.09E-09	2.80E-08	3.49E-09	3.49E-09	1.73E-09	3.88E-08
1655	257481.61	4084980.13	4.76E-08	6.36E-07	9.41E-08	9.41E-08	5.24E-08	9.24E-07	7.22E-09	9.68E-08	1.47E-08	1.47E-08	8.07E-09	1.42E-07	3.92E-09	5.24E-08	6.53E-09	6.53E-09	3.23E-09	7.26E-08
1656	257483.26	4085024.69	8.08E-08	1.08E-06	1.60E-07	1.60E-07	8.91E-08	1.57E-06	1.23E-08	1.65E-07	2.49E-08	2.49E-08	1.37E-08	2.40E-07	6.66E-09	8.90E-08	1.11E-08	1.11E-08	5.49E-09	1.23E-07
1657	257484.91	4085069.25	1.18E-07	1.57E-06	2.33E-07	2.33E-07	1.30E-07	2.29E-06	1.79E-08	2.40E-07	3.64E-08	3.64E-08	2.00E-08	3.50E-07	9.72E-09	1.30E-07	1.62E-08	1.62E-08	8.01E-09	1.80E-07
1658	257486.56	4085113.81	1.45E-07	1.93E-06	2.86E-07	2.86E-07	1.59E-07	2.81E-06	2.19E-08	2.94E-07	4.46E-08	4.46E-08	2.45E-08	4.30E-07	1.19E-08	1.59E-07	1.99E-08	1.99E-08	9.83E-09	2.21E-07
1659	257488.21	4085158.38	1.55E-07	2.07E-06	3.07E-07	3.07E-07	1.71E-07	3.01E-06	2.36E-08	3.16E-07	4.79E-08	4.79E-08	2.63E-08	4.62E-07	1.28E-08	1.71E-07	2.13E-08	2.13E-08	1.05E-08	2.37E-07
1660	257462.43	4084940.87	2.69E-08	3.59E-07	5.32E-08	5.32E-08	2.96E-08	5.22E-07	4.08E-09	5.47E-08	8.30E-09	8.30E-09	4.56E-09	8.00E-08	2.22E-09	2.96E-08	3.69E-09	3.69E-09	1.83E-09	4.11E-08
1661	257475.68	4084905.07	2.15E-08	2.87E-07	4.25E-08	4.25E-08	2.37E-08	4.17E-07	3.26E-09	4.37E-08	6.63E-09	6.63E-09	3.65E-09	6.39E-08	1.77E-09	2.37E-08	2.95E-09	2.95E-09	1.46E-09	3.28E-08
1662	257499.64	4084879.17	1.99E-08	2.66E-07	3.94E-08	3.94E-08	2.20E-08	3.87E-07	3.02E-09	4.05E-08	6.15E-09	6.15E-09	3.38E-09	5.92E-08	1.64E-09	2.19E-08	2.74E-09	2.74E-09	1.35E-09	3.04E-08
1663	257456.62	4084981.05	3.78E-08	5.04E-07	7.46E-08	7.46E-08	4.16E-08	7.33E-07	5.73E-09	7.68E-08	1.17E-08	1.17E-08	6.41E-09	1.12E-07	3.11E-09	4.16E-08	5.18E-09	5.18E-09	2.57E-09	5.76E-08
1664	257458.28	4085025.62	5.86E-08	7.82E-07	1.16E-07	1.16E-07	6.45E-08	1.14E-06	8.89E-09	1.19E-07	1.81E-08	1.81E-08	9.94E-09	1.74E-07	4.83E-09	6.45E-08	8.04E-09	8.04E-09	3.98E-09	8.94E-08
1665	257459.1	4085047.9	7.15E-08	9.56E-07	1.41E-07	1.41E-07	7.88E-08	1.39E-06	1.09E-08	1.46E-07	2.21E-08	2.21E-08	1.21E-08	2.13E-07	5.90E-09	7.88E-08	9.82E-09	9.82E-09	4.86E-09	1.09E-07
1666	257460.75	4085092.46	9.65E-08	1.29E-06	1.91E-07	1.91E-07	1.06E-07	1.87E-06	1.46E-08	1.96E-07	2.98E-08	2.98E-08	1.64E-08	2.87E-07	7.95E-09	1.06E-07	1.32E-08	1.32E-08	6.55E-09	1.47E-07
1667	257462.4	4085137.02	1.14E-07	1.52E-06	2.25E-07	2.25E-07	1.25E-07	2.21E-06	1.73E-08	2.31E-07	3.51E-08	3.51E-08	1.93E-08	3.38E-07	9.37E-09	1.25E-07	1.56E-08	1.56E-08	7.73E-09	1.73E-07
1668	257412.46	4084942.72	2.05E-08	2.73E-07	4.04E-08	4.04E-08	2.25E-08	3.97E-07	3.11E-09	4.16E-08	6.32E-09	6.32E-09	3.47E-09	6.09E-08	1.69E-09	2.25E-08	2.81E-09	2.81E-09	1.39E-09	3.12E-08
1669	257425.72	4084906.93	1.70E-08	2.28E-07	3.37E-08	3.37E-08	1.88E-08	3.31E-07	2.59E-09	3.47E-08	5.26E-09	5.26E-09	2.89E-09	5.06E-08	1.40E-09	1.88E-08	2.34E-09	2.34E-09	1.16E-09	2.60E-08
1670	257438.97	4084871.13	1.44E-08	1.93E-07	2.85E-08	2.85E-08	1.59E-08	2.80E-07	2.19E-09	2.94E-08	4.45E-09	4.45E-09	2.45E-09	4.29E-08	1.19E-09	1.59E-08	1.98E-09	1.98E-09	9.80E-10	2.20E-08
1671	257462.93	4084845.22	1.36E-08	1.82E-07	2.69E-08	2.69E-08	1.50E-08	2.64E-07	2.06E-09	2.77E-08	4.20E-09	4.20E-09	2.31E-09	4.04E-08	1.12E-09	1.50E-08	1.87E-09	1.87E-09	9.24E-10	2.07E-08
1672	257497.59	4084829.21	1.41E-08	1.88E-07	2.79E-08	2.79E-08	1.55E-08	2.74E-07	2.14E-09	2.87E-08	4.35E-09	4.35E-09	2.39E-09	4.19E-08	1.16E-09	1.55E-08	1.94E-09	1.94E-09	9.58E-10	2.15E-08
1673	257406.66	4084982.91	2.66E-08	3.55E-07	5.25E-08	5.25E-08	2.93E-08	5.16E-07	4.03E-09	5.41E-08	8.20E-09	8.20E-09	4.51E-09	7.90E-08	2.19E-09	2.93E-08	3.65E-09	3.65E-09	1.81E-09	4.06E-08
1674	257408.31	4085027.47	3.67E-08	4.91E-07	7.26E-08	7.26E-08	4.05E-08	7.13E-07	5.58E-09	7.48E-08	1.13E-08	1.13E-08	6.23E-09	1.09E-07	3.03E-09	4.04E-08	5.04E-09	5.04E-09	2.50E-09	5.61E-08
1675	257409.96	4085072.03	5.00E-08	6.68E-07	9.88E-08	9.88E-08	5.51E-08	9.70E-07	7.59E-09	1.02E-07	1.54E-08	1.54E-08	8.48E-09	1.49E-07	4.12E-09	5.50E-08	6.86E-09	6.86E-09	3.40E-09	7.63E-08
1676	257411.61	4085116.59	6.38E-08	8.52E-07	1.26E-07	1.26E-07	7.03E-08	1.24E-06	9.68E-09	1.30E-07	1.97E-08	1.97E-08	1.08E-08	1.90E-07	5.26E-09	7.02E-08	8.75E-09	8.75E-09	4.33E-09	9.73E-08
1677	257413.26	4085161.15	7.39E-08	9.88E-07	1.46E-07	1.46E-07	8.15E-08	1.44E-06	1.12E-08	1.50E-07	2.28E-08	2.28E-08	1.25E-08	2.20E-07	6.09E-09	8.14E-08	1.02E-08	1.02E-08	5.02E-09	1.13E-07
1678	257363.44	4084942.02	1.62E-08	2.16E-07	3.20E-08	3.20E-08	1.78E-08	3.14E-07	2.45E-09	3.29E-08	4.99E-09	4.99E-09	2.74E-09	4.81E-08	1.33E-09	1.78E-08	2.22E-09	2.22E-09	1.10E-09	2.47E-08
1679	257378.59	4084901.11	1.35E-08	1.81E-07	2.67E-08	2.67E-08	1.49E-08	2.63E-07	2.05E-09	2.75E-08	4.17E-09	4.17E-09	2.29E-09	4.02E-08	1.11E-09	1.49E-08	1.86E-09	1.86E-09	9.19E-10	2.06E-08
1680	257393.74	4084860.19	1.15E-08	1.54E-07	2.28E-08	2.28E-08	1.27E-08	2.24E-07	1.75E-09	2.34E-08	3.55E-09	3.55E-09	1.95E-09	3.42E-08	9.49E-10	1.27E-08	1.58E-09	1.58E-09	7.83E-10	1.76E-08
1681	257428.7	4084810.13	1.01E-08	1.35E-07	2.00E-08	2.00E-08	1.11E-08	1.96E-07	1.53E-09	2.06E-08	3.12E-09	3.12E-09	1.71E-09	3.00E-08	8.33E-10	1.11E-08	1.39E-09	1.39E-09	6.86E-10	1.54E-08
1682	257468.3	4084791.83	1.04E-08	1.39E-07	2.06E-08	2.06E-08	1.15E-08	2.02E-07	1.58E-09	2.12E-08	3.21E-09	3.21E-09	1.77E-09	3.10E-08	8.58E-10	1.15E-08	1.43E-09	1.43E-09	7.08E-10	1.59E-08
1683	257507.91	4084773.54	1.08E-08	1.44E-07	2.13E-08	2.13E-08	1.19E-08	2.09E-07	1.63E-09	2.19E-08	3.32E-09	3.32E-09	1.83E-09	3.20E-08	8.87E-10	1.19E-08	1.48E-09	1.48E-09	7.31E-10	1.64E-08
1684	257356.69	4084984.76	2.03E-08	2.72E-07	4.02E-08	4.02E-08	2.24E-08	3.95E-07	3.09E-09	4.14E-08	6.27E-09	6.27E-09	3.45E-09	6.05E-08	1.68E-09	2.24E-08	2.79E-09	2.79E-09	1.38E-09	3.10E-08
1685	257358.34	4085029.32	2.63E-08	3.52E-07	5.21E-08	5.21E-08	2.90E-08	5.11E-07	4.00E-09	5.36E-08	8.13E-09	8.13E-09	4.47E-09	7.83E-08	2.17E-09	2.90E-08	3.62E-09	3.62E-09	1.79E-09	4.02E-08
1686	257359.99	4085073.88	3.37E-08	4.50E-07	6.66E-08	6.66E-08	3.71E-08	6.54E-07	5.11E-09	6.86E-08	1.04E-08	1.04E-08	5.72E-09	1.00E-07	2.78E-09	3.71E-08	4.63E-09	4.63E-09	2.29E-09	5.14E-08
1687	257361.65	4085118.44	4.21E-08	5.63E-07	8.33E-08	8.33E-08	4.64E-08	8.18E-07	6.40E-09	8.57E-08	1.30E-08	1.30E-08	7.15E-09	1.25E-07	3.47E-09	4.64E-08	5.78E-09	5.78E-09	2.86E-09	6.43E-08
1688	257363.3	4085163.01	4.98E-08	6.65E-07	9.85E-08	9.85E-08	5.49E-08	9.67E-07	7.56E-09	1.01E-07	1.54E-08	1.54E-08	8.45E-09	1.48E-07	4.11E-09	5.49E-08	6.84E-09	6.84E-09	3.39E-09	7.60E-08
1689	257313.27	4084944.44	1.34E-08	1.79E-07	2.66E-08	2.66E-08	1.48E-08	2.61E-07	2.04E-09	2.73E-08	4.15E-09	4.15E-09	2.28E-09	4.00E-08	1.11E-09	1.48E-08	1.84E-09	1.84E-09	9.13E-10	2.05E-08
1690	257328	4084904.66	1.15E-08	1.54E-07	2.27E-08	2.27E-08	1.27E-08	2.23E-07	1.74E-09	2.34E-08	3.55E-09	3.55E-09	1.95E-09	3.42E-08	9.48E-10	1.27E-08	1.58E-09	1.58E-09	7.81E-10	1.75E-08
1691	257342.73	4084864.88	9.98E-09	1.33E-07	1.97E-08	1.97E-08	1.10E-08	1.94E-07	1.51E-09	2.03E-08	3.08E-09	3.08E-09	1.69E-09	2.97E-08	8.23E-10	1.10E-08	1.37E-09	1.37E-09	6.78E-10	1.52E-08
1692	257357.46	4084825.11	8.78E-09	1.17E-07	1.74E-08	1.74E-08	9.68E-09	1.70E-07	1.33E-09	1.79E-08	2.71E-09	2.71E-09	1.49E-09	2.61E-08	7.24E-10	9.67E-09	1.21E-09	1.21E-09	5.97E-10	1.34E-08
1693	257391.44	4084776.44	7.87E-09	1.05E-07	1.56E-08	1.56E-08	8.68E-09	1.53E-07	1.20E-09	1.60E-08	2.43E-09	2.43E-09	1.34E-09	2.34E-08	6.49E-10	8.67E-09	1.08E-09	1.08E-09	5.35E-10	1.20E-08
1694	257429.94	4084758.65	8.06E-09	1.08E-07	1.59E-08	1.59E-08	8.88E-09	1.56E-07	1.22E-09	1.64E-08	2.49E-09	2.49E-09	1.37E-09	2.40E-08	6.64E-10	8.87E-09	1.11E-09	1.11E-09	5.48E-10	1.23E-08
1695	257468.45	4084740.86	8.24E-09	1.10E-07	1.63E-08	1.63E-08	9.07E-09	1.60E-07	1.25E-09	1.68E-08	2.54E-09	2.54E-09	1.40E-09	2.45E-08	6.79E-10	9.07E-09	1.13E-09	1.13E-09	5.60E-10	1.26E-08
1696	257506.96	4084723.07	8.45E-09	1.13E-07	1.67E-08	1.67E-08	9.31E-09	1.64E-07	1.28E-09	1.72E-08	2.61E-09	2.61E-09	1.43E-09	2.51E-08	6.97E-10	9.31E-09	1.16E-09	1.16E-09	5.74E-10	1.29E-08
1697	257306.73	4084986.61	1.64E-08	2.19E-07	3.24E-08	3.24E-08	1.80E-08	3.18E-07	2.48E-09	3.33E-08	5.05E-09	5.05E-09	2.78E-09	4.87E-08	1.35E-09	1.80E-08	2.25E-09	2.25E-09	1.11E-09	2.50E-08
1698	257307.55	4085008.89	1.83E-08	2.45E-07	3.62E-08	3.62E-08	2.02E-08	3.56E-07	2.78E-09	3.73E-08	5.65E-09	5.65E-09	3.11E-09	5.45E-08	1.51E-09	2.02E-08	2.51E-09	2.51E-09	1.24E-09	2.80E-08
1699	257309.2	4085053.45	2.25E-08	3.01E-07	4.45E-08	4.45E-08	2.48E-08	4.37E-07	3.42E-09	4.58E-08	6.95E-09	6.95E-09	3.82E-09	6.70E-08	1.86E-09	2.48E-08	3.09E-09	3.09E-09	1.53E-09	3.44E-08
1700	257310.85	4085098.01	2.74E-08	3.66E-07	5.41E-08	5.41E-08	3.01E-08	5.31E-07	4.15E-09	5.57E-08	8.44E-09	8.44E-09	4.64E-09	8.14E-08	2.26E-09	3.01E-08	3.76E-09	3.76E-09	1.86E-09	4.18E-08
1701	257312.51	4085142.58	3.27E-08	4.37E-07	6.47E-08	6.47E-08	3.61E-08	6.36E-07	4.97E-09	6.66E-08	1.01E-08	1.01E-08	5.56E-09	9.74E-08	2.70E-09	3.61E-08	4.50E-09	4.50E-09	2.23E-09	5.00E-08
1702	257263.17	4084946.65	1.15E-08	1.53E-07	2.26E-08	2.26E-08	1.26E-08	2.22E-07	1.74E-09	2.33E-08	3.54E-09	3.54E-09	1.94E-09	3.41E-08	9.45E-10	1.26E-08	1.57E-09	1.57E-09	7.79E-10	1.75E-08
1703	257277.63	4084907.6	9.94E-09	1.33E-07	1.97E-08	1.97E-08	1.10E-08	1.93E-07	1.51E-09	2.02E-08	3.07E-09	3.07E-09	1.69E-09	2.96E-08	8.20E-10	1.09E-08	1.37E-09	1.37E-09	6.76E-10	1.52E-08
1704	257292.09	4084868.54	8.74E-09	1.17E-07	1.73E-08	1.73E-08	9.63E-09	1.70E-07	1.33E-09	1.78E-08	2.70E-09	2.70E-09	1.48E-09	2.60E-08	7.20E-10	9.62E-09	1.20E-09	1.20E-09	5.94E-10	1.33E-08
1705	257306.55	4084829.49	7.78E-09	1.04E-07	1.54E-08	1.54E-08	8.58E-09	1.51E-07	1.18E-09	1.58E-08	2.40E-09	2.40E-09	1.32E-09	2.31E-08	6.42E-10	8.57E-09	1.07E-09	1.07E-09	5.29E-10	1.19E-08
1706	257321.01	4084790.44	6.99E-09	9.34E-08	1.38E-08	1.38E-08	7.71E-09	1.36E-07	1.06E-09	1.42E-08	2.16E-09	2.16E-09	1.19E-09	2.08E-08	5.77E-10	7.70E-09	9.60E-10	9.60E-10	4.75E-10	1.07E-08
1707	257354.38	4084742.65	6.36E-09	8.50E-08	1.26E-08	1.26E-08	7.01E-09	1.24E-07	9.66E-10	1.30E-08	1.96E-09	1.96E-09	1.08E-09	1.89E-08	5.25E-10	7.01E-09	8.74E-10	8.74E-10	4.32E-10	9.71E-09
1708	257392.18	4084725.19	6.48E-09	8.66E-08	1.28E-08	1.28E-08	7.14E-09	1.26E-07	9.83E-10	1.32E-08	2.00E-09	2.00E-09	1.10E-09	1.93E-08	5.34E-10	7.14E-09	8.90E-10	8.90E-10	4.40E-10	9.89E-09
1709	257429.99	4084707.72	6.59E-09	8.80E-08	1.30E-08	1.30E-08	7.26E-09	1.28E-07	1.00E-09	1.34E-08	2.03E-09	2.03E-09	1.12E-09	1.96E-08	5.43E-10	7.25E-09	9.04E-10	9.04E-10	4.48E-10	1.01E-08
1710	257467.8	4084690.25	6.70E-09	8.95E-08	1.32E-08	1.32E-08	7.38E-09	1.30E-07	1.02E-09	1.36E-08	2.07E-09	2.07E-09	1.14E-09	1.99E-08	5.52E-10	7.38E-09	9.20E-10	9.20E-10	4.55E-10	1.02E-08
1711	257505.6	4084672.79	6.85E-09	9.15E-08	1.35E-08	1.35E-08	7.55E-09	1.33E-07	1.04E-09	1.39E-08	2.11E-09	2.11E-09	1.16E-09	2.04E-08	5.65E-10	7.55E-09	9.41E-10	9.41E-10	4.66E-10	1.05E-08
1712	257256.76	4084988.46	1.37E-08	1.82E-07	2.70E-08	2.70E-08	1.50E-08	2.65E-07	2.07E-09	2.78E-08	4.21E-09	4.21E-09	2.32E-09	4.06E-08	1.13E-09	1.50E-08	1.87E-09	1.87E-09	9.28E-10	2.08E-08
1713	257258.41	4085033.02	1.65E-08	2.20E-07	3.26E-08	3.26E-08	1.82E-08	3.20E-07	2.50E-09	3.35E-08	5.09E-09	5.09E-09	2.80E-09	4.90E-08	1.36E-09	1.82E-08	2.26E-09	2.26E-09	1.12E-09	2.52E-08
1714	257260.06	4085077.58	1.95E-08	2.60E-07	3.85E-08	3.85E-08	2.14E-08	3.78E-07	2.95E-09	3.96E-08	6.01E-09	6.01E-09	3.30E-09	5.79E-08	1.60E-09	2.14E-08	2.67E-09	2.67E-09	1.32E-09	2.97E-08
1715	257261.71	4085122.15	2.27E-08	3.04E-07	4.49E-08	4.49E-08	2.51E-08	4.41E-07	3.45E-09	4.63E-08	7.02E-09	7.02E-09	3.86E-09	6.76E-08	1.87E-09	2.50E-08	3.12E-09	3.12E-09	1.55E-09	3.47E-08
1716	257263.37	4085166.71	2.64E-08	3.53E-07	5.22E-08	5.22E-08	2.91E-08	5.13E-07	4.01E-09	5.38E-08	8.15E-09	8.15E-09	4.48E-09	7.85E-08	2.18E-09	2.91E-08	3.63E-09	3.63E-09	1.79E-09	4.03E-08
1717	257163.58	4084949.42	8.78E-09	1.17E-07	1.74E-08	1.74E-08	9.67E-09	1.70E-07	1.33E-09	1.79E-08	2.71E-09	2.71E-09	1.49E-09	2.61E-08	7.24E-10	9.67E-09	1.21E-09	1.21E-09	5.97E-10	1.34E-08
1718	257178.73	4084908.51	7.71E-09	1.03E-07	1.52E-08	1.52E-08	8.49E-09	1.50E-07	1.17E-09	1.57E-08	2.38E-09	2.38E-09	1.31E-09	2.29E-08	6.35E-10	8.49E-09	1.06E-09	1.06E-09	5.24E-10	1.18E-08
1719	257193.88	4084867.6	6.82E-09	9.12E-08	1.35E-08	1.35E-08	7.52E-09	1.32E-07	1.04E-09	1.39E-08	2.11E-09	2.11E-09	1.16E-09	2.03E-08	5.62E-10	7.51E-09	9.37E-10	9.37E-10	4.64E-10	1.04E-08
1720	257209.03	4084826.68	6.13E-09	8.19E-08	1.21E-08	1.21E-08	6.75E-09	1.19E-07	9.30E-10	1.25E-08	1.89E-09	1.89E-09	1.04E-09	1.82E-08	5.05E-10	6.75E-09	8.42E-10	8.42E-10	4.17E-10	9.35E-09
1721	257224.18	4084785.77	5.56E-09	7.43E-08	1.10E-08	1.10E-08	6.13E-09	1.08E-07	8.44E-10	1.13E-08	1.72E-09	1.72E-09	9.44E-10	1.65E-08	4.59E-10	6.13E-09	7.64E-10	7.64E-10	3.78E-10	8.49E-09
1722	257239.33	4084744.86	5.08E-09	6.79E-08	1.00E-08	1.00E-08	5.60E-09	9.87E-08	7.71E-10	1.03E-08	1.57E-09	1.57E-09	8.62E-10	1.51E-08	4.19E-10	5.60E-09	6.98E-10	6.98E-10	3.45E-10	7.76E-09
1723	257254.48	4084703.95	4.65E-09	6.21E-08	9.18E-09	9.18E-09	5.12E-09	9.02E-08	7.05E-10	9.46E-09	1.43E-09	1.43E-09	7.88E-10	1.38E-08	3.83E-10	5.12E-09	6.38E-10	6.38E-10	3.16E-10	7.09E-09
1724	257281.86	4084674.34	4.47E-09	5.97E-08	8.83E-09	8.83E-09	4.92E-09	8.67E-08	6.78E-10	9.09E-09	1.38E-09	1.38E-09	7.58E-10	1.33E-08	3.68E-10	4.92E-09	6.13E-10	6.13E-10	3.04E-10	6.82E-09
1725	257321.47	4084656.04	4.53E-09	6.05E-08	8.95E-09	8.95E-09	4.99E-09	8.79E-08	6.87E-10	9.22E-09	1.40E-09	1.40E-09	7.68E-10	1.35E-08	3.73E-10	4.99E-09	6.22E-10	6.22E-10	3.08E-10	6.91E-09
1726	257361.07	4084637.75	4.59E-09	6.13E-08	9.07E-09	9.07E-09	5.06E-09	8.91E-08	6.96E-10	9.34E-09	1.42E-09	1.42E-09	7.78E-10	1.36E-08	3.78E-10	5.05E-09	6.30E-10	6.30E-10	3.12E-10	7.00E-09
1727	257400.68	4084619.45	4.65E-09	6.21E-08	9.18E-09	9.18E-09	5.12E-09	9.02E-08	7.05E-10	9.46E-09	1.43E-09	1.43E-09	7.88E-10	1.38E-08	3.83E-10	5.12E-09	6.38E-10	6.38E-10	3.16E-10	7.09E-09
1728	257440.28	4084601.15	4.71E-09	6.29E-08	9.30E-09	9.30E-09	5.19E-09	9.14E-08	7.15E-10	9.58E-09	1.45E-09	1.45E-09	7.99E-10	1.40E-08	3.88E-10	5.18E-09	6.46E-10	6.46E-10	3.20E-10	7.19E-09
1729	257479.89	4084582.85	4.80E-09	6.41E-08	9.48E-09	9.48E-09	5.28E-09	9.31E-08	7.28E-10	9.76E-09	1.48E-09	1.48E-09	8.13E-10	1.43E-08	3.95E-10	5.28E-09	6.58E-10	6.58E-10	3.26E-10	7.32E-09
1730	257156.83	4084992.16	1.02E-08	1.36E-07	2.01E-08	2.01E-08	1.12E-08	1.98E-07	1.54E-09	2.07E-08	3.14E-09	3.14E-09	1.73E-09	3.03E-08	8.39E-10	1.12E-08	1.40E-09	1.40E-09	6.91E-10	1.55E-08
1731	257158.48	4085036.72	1.18E-08	1.58E-07	2.34E-08	2.34E-08	1.30E-08	2.30E-07	1.79E-09	2.41E-08	3.65E-09	3.65E-09	2.01E-09	3.52E-08	9.75E-10	1.30E-08	1.62E-09	1.62E-09	8.04E-10	1.80E-08
1732	257160.13	4085081.29	1.34E-08	1.79E-07	2.64E-08	2.64E-08	1.47E-08	2.60E-07	2.03E-09	2.72E-08	4.13E-09	4.13E-09	2.27E-09	3.98E-08	1.10E-09	1.47E-08	1.84E-09	1.84E-09	9.09E-10	2.04E-08
1733	257161.78	4085125.85	1.49E-08	1.99E-07	2.94E-08	2.94E-08	1.64E-08	2.89E-07	2.26E-09	3.03E-08	4.59E-09	4.59E-09	2.52E-09	4.42E-08	1.23E-09	1.64E-08	2.04E-09	2.04E-09	1.01E-09	2.27E-08
1734	257162.61	4085148.13	1.57E-08	2.09E-07	3.10E-08	3.10E-08	1.73E-08	3.04E-07	2.38E-09	3.19E-08	4.83E-09	4.83E-09	2.66E-09	4.66E-08	1.29E-09	1.72E-08	2.15E-09	2.15E-09	1.06E-09	2.39E-08
1735	257063.44	4084953.69	7.12E-09	9.52E-08	1.41E-08	1.41E-08	7.85E-09	1.38E-07	1.08E-09	1.45E-08	2.20E-09	2.20E-09	1.21E-09	2.12E-08	5.87E-10	7.84E-09	9.78E-10	9.78E-10	4.84E-10	1.09E-08
1736	257078.17	4084913.92	6.37E-09	8.51E-08	1.26E-08	1.26E-08	7.02E-09	1.24E-07	9.67E-10	1.30E-08	1.97E-09	1.97E-09	1.08E-09	1.89E-08	5.25E-10	7.01E-09	8.74E-10	8.74E-10	4.33E-10	9.72E-09
1737	257092.9	4084874.14	5.71E-09	7.63E-08	1.13E-08	1.13E-08	6.29E-09	1.11E-07	8.67E-10	1.16E-08	1.76E-09	1.76E-09	9.69E-10	1.70E-08	4.71E-10	6.29E-09	7.84E-10	7.84E-10	3.88E-10	8.71E-09
1738	257107.63	4084834.36	5.17E-09	6.90E-08	1.02E-08	1.02E-08	5.69E-09	1.00E-07	7.84E-10	1.05E-08	1.59E-09	1.59E-09	8.76E-10	1.54E-08	4.26E-10	5.69E-09	7.09E-10	7.09E-10	3.51E-10	7.88E-09
1739	257122.36	4084794.59	4.72E-09	6.31E-08	9.33E-09	9.33E-09	5.20E-09	9.16E-08	7.16E-10	9.61E-09	1.46E-09	1.46E-09	8.01E-10	1.40E-08	3.89E-10	5.20E-09	6.48E-10	6.48E-10	3.21E-10	7.20E-09
1740	257137.09	4084754.81	4.35E-09	5.81E-08	8.59E-09	8.59E-09	4.79E-09	8.44E-08	6.60E-10	8.84E-09	1.34E-09	1.34E-09	7.37E-10	1.29E-08	3.58E-10	4.79E-09	5.97E-10	5.97E-10	2.95E-10	6.63E-09
1741	257151.82	4084715.03	4.03E-09	5.38E-08	7.96E-09	7.96E-09	4.44E-09	7.82E-08	6.11E-10	8.19E-09	1.24E-09	1.24E-09	6.83E-10	1.20E-08	3.32E-10	4.43E-09	5.53E-10	5.53E-10	2.74E-10	6.15E-09
1742	257166.55	4084675.26	3.74E-09	5.00E-08	7.39E-09	7.39E-09	4.12E-09	7.26E-08	5.68E-10	7.61E-09	1.15E-09	1.15E-09	6.35E-10	1.11E-08	3.08E-10	4.12E-09	5.14E-10	5.14E-10	2.54E-10	5.71E-09
1743	257181.27	4084635.48	3.47E-09	4.63E-08	6.85E-09	6.85E-09	3.82E-09	6.73E-08	5.26E-10	7.06E-09	1.07E-09	1.07E-09	5.88E-10	1.03E-08	2.86E-10	3.82E-09	4.76E-10	4.76E-10	2.36E-10	5.29E-09
1744	257207.89	4084606.7	3.35E-09	4.48E-08	6.63E-09	6.63E-09	3.69E-09	6.51E-08	5.09E-10	6.82E-09	1.03E-09	1.03E-09	5.69E-10	9.97E-09	2.76E-10	3.69E-09	4.60E-10	4.60E-10	2.28E-10	5.12E-09
1745	257246.4	4084588.91	3.39E-09	4.52E-08	6.69E-09	6.69E-09	3.73E-09	6.58E-08	5.14E-10	6.89E-09	1.05E-09	1.05E-09	5.75E-10	1.01E-08	2.79E-10	3.73E-09	4.65E-10	4.65E-10	2.30E-10	5.17E-09
1746	257284.9	4084571.12	3.43E-09	4.58E-08	6.78E-09	6.78E-09	3.78E-09	6.66E-08	5.21E-10	6.98E-09	1.06E-09	1.06E-09	5.82E-10	1.02E-08	2.83E-10	3.78E-09	4.71E-10	4.71E-10	2.33E-10	5.24E-09
1747	257323.41	4084553.33	3.48E-09	4.65E-08	6.87E-09	6.87E-09	3.83E-09	6.75E-08	5.28E-10	7.08E-09	1.07E-09	1.07E-09	5.90E-10	1.03E-08	2.87E-10	3.83E-09	4.78E-10	4.78E-10	2.36E-10	5.31E-09
1748	257361.92	4084535.54	3.52E-09	4.70E-08	6.96E-09	6.96E-09	3.88E-09	6.84E-08	5.35E-10	7.17E-09	1.09E-09	1.09E-09	5.97E-10	1.05E-08	2.90E-10	3.88E-09	4.84E-10	4.84E-10	2.39E-10	5.37E-09
1749	257400.42	4084517.75	3.56E-09	4.76E-08	7.04E-09	7.04E-09	3.92E-09	6.91E-08	5.40E-10	7.25E-09	1.10E-09	1.10E-09	6.04E-10	1.06E-08	2.94E-10	3.92E-09	4.89E-10	4.89E-10	2.42E-10	5.43E-09
1750	257438.93	4084499.96	3.60E-09	4.81E-08	7.12E-09	7.12E-09	3.97E-09	6.99E-08	5.47E-10	7.33E-09	1.11E-09	1.11E-09	6.11E-10	1.07E-08	2.97E-10	3.96E-09	4.94E-10	4.94E-10	2.45E-10	5.50E-09
1751	257477.43	4084482.18	3.65E-09	4.87E-08	7.21E-09	7.21E-09	4.02E-09	7.08E-08	5.54E-10	7.43E-09	1.13E-09	1.13E-09	6.19E-10	1.09E-08	3.01E-10	4.02E-09	5.01E-10	5.01E-10	2.48E-10	5.57E-09
1752	257056.9	4084995.86	8.08E-09	1.08E-07	1.60E-08	1.60E-08	8.90E-09	1.57E-07	1.23E-09	1.64E-08	2.49E-09	2.49E-09	1.37E-09	2.40E-08	6.66E-10	8.89E-09	1.11E-09	1.11E-09	5.49E-10	1.23E-08
1753	257057.72	4085018.15	8.63E-09	1.15E-07	1.71E-08	1.71E-08	9.51E-09	1.68E-07	1.31E-09	1.76E-08	2.66E-09	2.66E-09	1.46E-09	2.57E-08	7.11E-10	9.50E-09	1.18E-09	1.18E-09	5.86E-10	1.32E-08
1754	257059.38	4085062.71	9.64E-09	1.29E-07	1.91E-08	1.91E-08	1.06E-08	1.87E-07	1.46E-09	1.96E-08	2.98E-09	2.98E-09	1.64E-09	2.87E-08	7.95E-10	1.06E-08	1.32E-09	1.32E-09	6.55E-10	1.47E-08
1755	257061.03	4085107.27	1.05E-08	1.40E-07	2.08E-08	2.08E-08	1.16E-08	2.04E-07	1.59E-09	2.14E-08	3.24E-09	3.24E-09	1.78E-09	3.12E-08	8.66E-10	1.16E-08	1.44E-09	1.44E-09	7.14E-10	1.60E-08
1756	257062.68	4085151.83	1.13E-08	1.51E-07	2.23E-08	2.23E-08	1.24E-08	2.19E-07	1.71E-09	2.30E-08	3.48E-09	3.48E-09	1.91E-09	3.36E-08	9.30E-10	1.24E-08	1.55E-09	1.55E-09	7.67E-10	1.72E-08
1757	256963.72	4084956.83	5.98E-09	7.98E-08	1.18E-08	1.18E-08	6.58E-09	1.16E-07	9.07E-10	1.22E-08	1.84E-09	1.84E-09	1.01E-09	1.78E-08	4.93E-10	6.58E-09	8.20E-10	8.20E-10	4.06E-10	9.12E-09
1758	256978.87	4084915.92	5.38E-09	7.19E-08	1.06E-08	1.06E-08	5.93E-09	1.04E-07	8.17E-10	1.09E-08	1.66E-09	1.66E-09	9.13E-10	1.60E-08	4.44E-10	5.92E-09	7.39E-10	7.39E-10	3.66E-10	8.21E-09
1759	256994.02	4084875	4.85E-09	6.48E-08	9.59E-09	9.59E-09	5.35E-09	9.42E-08	7.37E-10	9.88E-09	1.50E-09	1.50E-09	8.23E-10	1.44E-08	4.00E-10	5.34E-09	6.66E-10	6.66E-10	3.30E-10	7.41E-09
1760	257009.17	4084834.09	4.42E-09	5.91E-08	8.74E-09	8.74E-09	4.87E-09	8.58E-08	6.71E-10	9.00E-09	1.36E-09	1.36E-09	7.50E-10	1.31E-08	3.64E-10	4.87E-09	6.07E-10	6.07E-10	3.00E-10	6.75E-09
1761	257024.32	4084793.18	4.05E-09	5.42E-08	8.01E-09	8.01E-09	4.47E-09	7.87E-08	6.15E-10	8.25E-09	1.25E-09	1.25E-09	6.88E-10	1.21E-08	3.34E-10	4.46E-09	5.57E-10	5.57E-10	2.76E-10	6.19E-09
1762	257039.47	4084752.26	3.73E-09	4.99E-08	7.38E-09	7.38E-09	4.11E-09	7.25E-08	5.66E-10	7.60E-09	1.15E-09	1.15E-09	6.33E-10	1.11E-08	3.08E-10	4.11E-09	5.12E-10	5.12E-10	2.54E-10	5.70E-09
1763	257054.62	4084711.35	3.46E-09	4.62E-08	6.83E-09	6.83E-09	3.81E-09	6.71E-08	5.25E-10	7.03E-09	1.07E-09	1.07E-09	5.86E-10	1.03E-08	2.85E-10	3.81E-09	4.75E-10	4.75E-10	2.35E-10	5.28E-09
1764	257069.77	4084670.44	3.22E-09	4.30E-08	6.37E-09	6.37E-09	3.55E-09	6.25E-08	4.89E-10	6.56E-09	9.94E-10	9.94E-10	5.46E-10	9.58E-09	2.66E-10	3.55E-09	4.42E-10	4.42E-10	2.19E-10	4.92E-09
1765	257084.92	4084629.52	3.01E-09	4.03E-08	5.96E-09	5.96E-09	3.32E-09	5.85E-08	4.57E-10	6.13E-09	9.30E-10	9.30E-10	5.11E-10	8.96E-09	2.48E-10	3.32E-09	4.14E-10	4.14E-10	2.05E-10	4.60E-09
1766	257100.07	4084588.61	2.82E-09	3.77E-08	5.57E-09	5.57E-09	3.11E-09	5.47E-08	4.28E-10	5.74E-09	8.70E-10	8.70E-10	4.78E-10	8.38E-09	2.32E-10	3.10E-09	3.87E-10	3.87E-10	1.92E-10	4.30E-09

1767	257135.02	4084538.55	2.65E-09	3.53E-08	5.23E-09	5.23E-09	2.91E-09	5.14E-08	4.01E-10	5.38E-09	8.16E-10	8.16E-10	4.49E-10	7.87E-09	2.18E-10	2.91E-09	3.63E-10	3.63E-10	1.80E-10	4.04E-09
1768	257174.63	4084520.25	2.67E-09	3.57E-08	5.28E-09	5.28E-09	2.94E-09	5.19E-08	4.05E-10	5.44E-09	8.24E-10	8.24E-10	4.53E-10	7.94E-09	2.20E-10	2.94E-09	3.67E-10	3.67E-10	1.82E-10	4.08E-09
1769	257214.24	4084501.95	2.71E-09	3.62E-08	5.36E-09	5.36E-09	2.99E-09	5.26E-08	4.11E-10	5.52E-09	8.36E-10	8.36E-10	4.60E-10	8.06E-09	2.23E-10	2.98E-09	3.72E-10	3.72E-10	1.84E-10	4.14E-09
1770	257253.84	4084483.66	2.76E-09	3.68E-08	5.45E-09	5.45E-09	3.04E-09	5.35E-08	4.18E-10	5.61E-09	8.50E-10	8.50E-10	4.67E-10	8.19E-09	2.27E-10	3.03E-09	3.78E-10	3.78E-10	1.87E-10	4.20E-09
1771	257293.45	4084465.36	2.80E-09	3.74E-08	5.53E-09	5.53E-09	3.08E-09	5.43E-08	4.25E-10	5.69E-09	8.63E-10	8.63E-10	4.75E-10	8.32E-09	2.31E-10	3.08E-09	3.84E-10	3.84E-10	1.90E-10	4.27E-09
1772	257333.05	4084447.06	2.83E-09	3.78E-08	5.59E-09	5.59E-09	3.12E-09	5.49E-08	4.29E-10	5.75E-09	8.73E-10	8.73E-10	4.80E-10	8.41E-09	2.33E-10	3.11E-09	3.88E-10	3.88E-10	1.92E-10	4.32E-09
1773	257372.66	4084428.77	2.85E-09	3.80E-08	5.62E-09	5.62E-09	3.13E-09	5.52E-08	4.32E-10	5.79E-09	8.78E-10	8.78E-10	4.83E-10	8.46E-09	2.35E-10	3.13E-09	3.91E-10	3.91E-10	1.93E-10	4.34E-09
1774	257412.27	4084410.47	2.85E-09	3.81E-08	5.64E-09	5.64E-09	3.14E-09	5.54E-08	4.33E-10	5.81E-09	8.80E-10	8.80E-10	4.84E-10	8.48E-09	2.35E-10	3.14E-09	3.92E-10	3.92E-10	1.94E-10	4.35E-09
1775	257451.87	4084392.17	2.86E-09	3.82E-08	5.65E-09	5.65E-09	3.15E-09	5.55E-08	4.34E-10	5.82E-09	8.83E-10	8.83E-10	4.85E-10	8.51E-09	2.36E-10	3.15E-09	3.93E-10	3.93E-10	1.94E-10	4.37E-09
1776	257491.48	4084373.87	2.87E-09	3.84E-08	5.67E-09	5.67E-09	3.16E-09	5.57E-08	4.36E-10	5.84E-09	8.86E-10	8.86E-10	4.87E-10	8.54E-09	2.37E-10	3.16E-09	3.94E-10	3.94E-10	1.95E-10	4.38E-09
1777	256956.97	4084999.57	6.69E-09	8.93E-08	1.32E-08	1.32E-08	7.37E-09	1.30E-07	1.01E-09	1.36E-08	2.06E-09	2.06E-09	1.13E-09	1.99E-08	5.51E-10	7.36E-09	9.18E-10	9.18E-10	4.54E-10	1.02E-08
1778	256958.62	4085044.13	7.45E-09	9.94E-08	1.47E-08	1.47E-08	8.20E-09	1.45E-07	1.13E-09	1.52E-08	2.30E-09	2.30E-09	1.26E-09	2.21E-08	6.14E-10	8.20E-09	1.02E-09	1.02E-09	5.06E-10	1.14E-08
1779	256960.27	4085088.69	8.06E-09	1.08E-07	1.59E-08	1.59E-08	8.89E-09	1.57E-07	1.22E-09	1.64E-08	2.49E-09	2.49E-09	1.37E-09	2.40E-08	6.65E-10	8.88E-09	1.11E-09	1.11E-09	5.48E-10	1.23E-08
1780	256961.92	4085133.25	8.55E-09	1.14E-07	1.69E-08	1.69E-08	9.42E-09	1.66E-07	1.30E-09	1.74E-08	2.64E-09	2.64E-09	1.45E-09	2.54E-08	7.05E-10	9.42E-09	1.17E-09	1.17E-09	5.81E-10	1.30E-08
1781	256963.57	4085177.82	9.00E-09	1.20E-07	1.78E-08	1.78E-08	9.92E-09	1.75E-07	1.37E-09	1.83E-08	2.78E-09	2.78E-09	1.53E-09	2.68E-08	7.42E-10	9.91E-09	1.24E-09	1.24E-09	6.12E-10	1.37E-08
1782	256863.94	4084960.11	5.15E-09	6.88E-08	1.02E-08	1.02E-08	5.67E-09	9.99E-08	7.81E-10	1.05E-08	1.59E-09	1.59E-09	8.73E-10	1.53E-08	4.24E-10	5.67E-09	7.07E-10	7.07E-10	3.50E-10	7.86E-09
1783	256879.41	4084918.34	4.66E-09	6.23E-08	9.21E-09	9.21E-09	5.13E-09	9.05E-08	7.07E-10	9.48E-09	1.44E-09	1.44E-09	7.91E-10	1.39E-08	3.84E-10	5.13E-09	6.40E-10	6.40E-10	3.17E-10	7.11E-09
1784	256894.88	4084876.57	4.23E-09	5.65E-08	8.36E-09	8.36E-09	4.66E-09	8.21E-08	6.42E-10	8.61E-09	1.31E-09	1.31E-09	7.18E-10	1.26E-08	3.49E-10	4.66E-09	5.81E-10	5.81E-10	2.87E-10	6.45E-09
1785	256910.34	4084834.81	3.88E-09	5.18E-08	7.66E-09	7.66E-09	4.27E-09	7.53E-08	5.88E-10	7.89E-09	1.20E-09	1.20E-09	6.58E-10	1.15E-08	3.20E-10	4.27E-09	5.32E-10	5.32E-10	2.63E-10	5.92E-09
1786	256925.81	4084793.04	3.58E-09	4.78E-08	7.07E-09	7.07E-09	3.94E-09	6.95E-08	5.43E-10	7.28E-09	1.10E-09	1.10E-09	6.07E-10	1.06E-08	2.95E-10	3.94E-09	4.91E-10	4.91E-10	2.43E-10	5.46E-09
1787	256941.27	4084751.28	3.31E-09	4.42E-08	6.54E-09	6.54E-09	3.64E-09	6.42E-08	5.02E-10	6.73E-09	1.02E-09	1.02E-09	5.61E-10	9.84E-09	2.73E-10	3.64E-09	4.54E-10	4.54E-10	2.25E-10	5.05E-09
1788	256956.74	4084709.51	3.06E-09	4.09E-08	6.05E-09	6.05E-09	3.37E-09	5.94E-08	4.64E-10	6.22E-09	9.44E-10	9.44E-10	5.19E-10	9.10E-09	2.52E-10	3.37E-09	4.20E-10	4.20E-10	2.08E-10	4.67E-09
1789	256972.21	4084667.75	2.84E-09	3.79E-08	5.61E-09	5.61E-09	3.13E-09	5.51E-08	4.31E-10	5.78E-09	8.76E-10	8.76E-10	4.82E-10	8.44E-09	2.34E-10	3.13E-09	3.90E-10	3.90E-10	1.93E-10	4.33E-09
1790	256987.67	4084625.98	2.66E-09	3.55E-08	5.25E-09	5.25E-09	2.93E-09	5.16E-08	4.03E-10	5.41E-09	8.20E-10	8.20E-10	4.51E-10	7.90E-09	2.19E-10	2.92E-09	3.65E-10	3.65E-10	1.80E-10	4.05E-09
1791	257003.14	4084584.22	2.50E-09	3.34E-08	4.94E-09	4.94E-09	2.75E-09	4.85E-08	3.79E-10	5.09E-09	7.71E-10	7.71E-10	4.24E-10	7.43E-09	2.06E-10	2.75E-09	3.43E-10	3.43E-10	1.70E-10	3.81E-09
1792	257018.6	4084542.45	2.36E-09	3.15E-08	4.66E-09	4.66E-09	2.60E-09	4.58E-08	3.58E-10	4.80E-09	7.27E-10	7.27E-10	4.00E-10	7.01E-09	1.94E-10	2.60E-09	3.24E-10	3.24E-10	1.60E-10	3.60E-09
1793	257034.07	4084500.69	2.22E-09	2.97E-08	4.40E-09	4.40E-09	2.45E-09	4.32E-08	3.38E-10	4.53E-09	6.86E-10	6.86E-10	3.77E-10	6.61E-09	1.83E-10	2.45E-09	3.05E-10	3.05E-10	1.51E-10	3.39E-09
1794	257062.02	4084470.46	2.17E-09	2.90E-08	4.29E-09	4.29E-09	2.39E-09	4.21E-08	3.29E-10	4.41E-09	6.69E-10	6.69E-10	3.68E-10	6.45E-09	1.79E-10	2.39E-09	2.98E-10	2.98E-10	1.47E-10	3.31E-09
1795	257102.45	4084451.78	2.19E-09	2.93E-08	4.33E-09	4.33E-09	2.41E-09	4.25E-08	3.33E-10	4.46E-09	6.76E-10	6.76E-10	3.72E-10	6.52E-09	1.81E-10	2.41E-09	3.01E-10	3.01E-10	1.49E-10	3.34E-09
1796	257142.88	4084433.11	2.23E-09	2.97E-08	4.40E-09	4.40E-09	2.45E-09	4.32E-08	3.38E-10	4.53E-09	6.87E-10	6.87E-10	3.78E-10	6.62E-09	1.84E-10	2.45E-09	3.06E-10	3.06E-10	1.51E-10	3.40E-09
1797	257183.31	4084414.43	2.27E-09	3.03E-08	4.49E-09	4.49E-09	2.50E-09	4.41E-08	3.45E-10	4.62E-09	7.01E-10	7.01E-10	3.85E-10	6.76E-09	1.87E-10	2.50E-09	3.12E-10	3.12E-10	1.54E-10	3.47E-09
1798	257223.74	4084395.75	2.31E-09	3.09E-08	4.57E-09	4.57E-09	2.55E-09	4.49E-08	3.51E-10	4.70E-09	7.13E-10	7.13E-10	3.92E-10	6.87E-09	1.90E-10	2.54E-09	3.17E-10	3.17E-10	1.57E-10	3.53E-09
1799	257264.17	4084377.07	2.34E-09	3.12E-08	4.62E-09	4.62E-09	2.58E-09	4.54E-08	3.55E-10	4.76E-09	7.21E-10	7.21E-10	3.96E-10	6.95E-09	1.93E-10	2.57E-09	3.21E-10	3.21E-10	1.59E-10	3.57E-09
1800	257304.61	4084358.39	2.35E-09	3.13E-08	4.64E-09	4.64E-09	2.59E-09	4.55E-08	3.56E-10	4.77E-09	7.24E-10	7.24E-10	3.98E-10	6.98E-09	1.93E-10	2.58E-09	3.22E-10	3.22E-10	1.59E-10	3.58E-09
1801	257345.04	4084339.71	2.34E-09	3.12E-08	4.62E-09	4.62E-09	2.58E-09	4.54E-08	3.55E-10	4.76E-09	7.22E-10	7.22E-10	3.97E-10	6.95E-09	1.93E-10	2.58E-09	3.21E-10	3.21E-10	1.59E-10	3.57E-09
1802	257385.47	4084321.04	2.32E-09	3.10E-08	4.59E-09	4.59E-09	2.56E-09	4.51E-08	3.52E-10	4.72E-09	7.16E-10	7.16E-10	3.94E-10	6.90E-09	1.91E-10	2.56E-09	3.19E-10	3.19E-10	1.58E-10	3.54E-09
1803	257425.9	4084302.36	2.30E-09	3.08E-08	4.55E-09	4.55E-09	2.54E-09	4.47E-08	3.50E-10	4.69E-09	7.11E-10	7.11E-10	3.91E-10	6.85E-09	1.90E-10	2.54E-09	3.16E-10	3.16E-10	1.57E-10	3.52E-09
1804	257466.33	4084283.68	2.30E-09	3.07E-08	4.55E-09	4.55E-09	2.53E-09	4.46E-08	3.49E-10	4.68E-09	7.10E-10	7.10E-10	3.90E-10	6.84E-09	1.90E-10	2.53E-09	3.16E-10	3.16E-10	1.56E-10	3.51E-09
1805	256857.04	4085003.27	5.70E-09	7.62E-08	1.13E-08	1.13E-08	6.28E-09	1.11E-07	8.66E-10	1.16E-08	1.76E-09	1.76E-09	9.68E-10	1.70E-08	4.70E-10	6.28E-09	7.83E-10	7.83E-10	3.88E-10	8.70E-09
1806	256858.69	4085047.83	6.26E-09	8.37E-08	1.24E-08	1.24E-08	6.90E-09	1.22E-07	9.51E-10	1.27E-08	1.93E-09	1.93E-09	1.06E-09	1.86E-08	5.16E-10	6.90E-09	8.60E-10	8.60E-10	4.26E-10	9.56E-09
1807	256860.34	4085092.39	6.70E-09	8.95E-08	1.32E-08	1.32E-08	7.38E-09	1.30E-07	1.02E-09	1.36E-08	2.07E-09	2.07E-09	1.14E-09	1.99E-08	5.52E-10	7.37E-09	9.19E-10	9.19E-10	4.55E-10	1.02E-08
1808	256861.99	4085136.96	7.02E-09	9.37E-08	1.39E-08	1.39E-08	7.73E-09	1.36E-07	1.06E-09	1.43E-08	2.16E-09	2.16E-09	1.19E-09	2.09E-08	5.78E-10	7.73E-09	9.63E-10	9.63E-10	4.77E-10	1.07E-08
1809	256863.64	4085181.52	7.30E-09	9.75E-08	1.44E-08	1.44E-08	8.04E-09	1.42E-07	1.11E-09	1.48E-08	2.25E-09	2.25E-09	1.24E-09	2.17E-08	6.01E-10	8.03E-09	1.00E-09	1.00E-09	4.96E-10	1.11E-08
1810	256664.04	4084967.61	4.06E-09	5.42E-08	8.03E-09	8.03E-09	4.47E-09	7.88E-08	6.16E-10	8.26E-09	1.25E-09	1.25E-09	6.89E-10	1.21E-08	3.35E-10	4.47E-09	5.58E-10	5.58E-10	2.76E-10	6.20E-09
1811	256679.44	4084926.03	3.72E-09	4.97E-08	7.36E-09	7.36E-09	4.10E-09	7.22E-08	5.65E-10	7.57E-09	1.15E-09	1.15E-09	6.31E-10	1.11E-08	3.07E-10	4.10E-09	5.11E-10	5.11E-10	2.53E-10	5.68E-09
1812	256694.83	4084884.46	3.41E-09	4.55E-08	6.74E-09	6.74E-09	3.76E-09	6.62E-08	5.17E-10	6.94E-09	1.05E-09	1.05E-09	5.78E-10	1.01E-08	2.81E-10	3.75E-09	4.68E-10	4.68E-10	2.32E-10	5.20E-09
1813	256710.23	4084842.89	3.15E-09	4.21E-08	6.23E-09	6.23E-09	3.47E-09	6.12E-08	4.78E-10	6.41E-09	9.72E-10	9.72E-10	5.34E-10	9.37E-09	2.60E-10	3.47E-09	4.32E-10	4.32E-10	2.14E-10	4.81E-09
1814	256725.62	4084801.32	2.94E-09	3.93E-08	5.82E-09	5.82E-09	3.24E-09	5.71E-08	4.47E-10	5.99E-09	9.08E-10	9.08E-10	4.99E-10	8.75E-09	2.43E-10	3.24E-09	4.04E-10	4.04E-10	2.00E-10	4.49E-09
1815	256741.02	4084759.74	2.77E-09	3.70E-08	5.47E-09	5.47E-09	3.05E-09	5.37E-08	4.20E-10	5.63E-09	8.54E-10	8.54E-10	4.70E-10	8.23E-09	2.28E-10	3.05E-09	3.80E-10	3.80E-10	1.88E-10	4.22E-09
1816	256756.41	4084718.17	2.60E-09	3.47E-08	5.14E-09	5.14E-09	2.87E-09	5.05E-08	3.95E-10	5.29E-09	8.02E-10	8.02E-10	4.41E-10	7.73E-09	2.14E-10	2.86E-09	3.57E-10	3.57E-10	1.77E-10	3.97E-09
1817	256771.81	4084676.6	2.43E-09	3.24E-08	4.80E-09	4.80E-09	2.68E-09	4.71E-08	3.69E-10	4.94E-09	7.49E-10	7.49E-10	4.12E-10	7.22E-09	2.00E-10	2.67E-09	3.33E-10	3.33E-10	1.65E-10	3.71E-09
1818	256787.2	4084635.02	2.26E-09	3.01E-08	4.46E-09	4.46E-09	2.49E-09	4.38E-08	3.42E-10	4.59E-09	6.96E-10	6.96E-10	3.83E-10	6.71E-09	1.86E-10	2.48E-09	3.10E-10	3.10E-10	1.53E-10	3.44E-09
1819	256802.6	4084593.45	2.10E-09	2.80E-08	4.14E-09	4.14E-09	2.31E-09	4.07E-08	3.18E-10	4.27E-09	6.47E-10	6.47E-10	3.56E-10	6.24E-09	1.73E-10	2.31E-09	2.88E-10	2.88E-10	1.43E-10	3.20E-09
1820	256817.99	4084551.88	1.97E-09	2.63E-08	3.88E-09	3.88E-09	2.17E-09	3.82E-08	2.98E-10	4.00E-09	6.06E-10	6.06E-10	3.33E-10	5.84E-09	1.62E-10	2.16E-09	2.70E-10	2.70E-10	1.34E-10	3.00E-09
1821	256833.39	4084510.3	1.86E-09	2.49E-08	3.68E-09	3.68E-09	2.05E-09	3.61E-08	2.83E-10	3.79E-09	5.74E-10	5.74E-10	3.16E-10	5.54E-09	1.53E-10	2.05E-09	2.56E-10	2.56E-10	1.27E-10	2.84E-09
1822	256848.78	4084468.73	1.78E-09	2.38E-08	3.52E-09	3.52E-09	1.96E-09	3.45E-08	2.70E-10	3.62E-09	5.49E-10	5.49E-10	3.02E-10	5.29E-09	1.47E-10	1.96E-09	2.44E-10	2.44E-10	1.21E-10	2.72E-09
1823	256864.18	4084427.16	1.71E-09	2.28E-08	3.38E-09	3.38E-09	1.88E-09	3.32E-08	2.59E-10	3.48E-09	5.27E-10	5.27E-10	2.90E-10	5.08E-09	1.41E-10	1.88E-09	2.35E-10	2.35E-10	1.16E-10	2.61E-09
1824	256879.57	4084385.58	1.64E-09	2.20E-08	3.25E-09	3.25E-09	1.81E-09	3.19E-08	2.49E-10	3.34E-09	5.07E-10	5.07E-10	2.79E-10	4.89E-09	1.35E-10	1.81E-09	2.26E-10	2.26E-10	1.12E-10	2.51E-09
1825	256915.09	4084334.72	1.59E-09	2.13E-08	3.15E-09	3.15E-09	1.75E-09	3.09E-08	2.42E-10	3.24E-09	4.91E-10	4.91E-10	2.70E-10	4.73E-09	1.31E-10	1.75E-09	2.19E-10	2.19E-10	1.08E-10	2.43E-09
1826	256955.33	4084316.12	1.61E-09	2.15E-08	3.19E-09	3.19E-09	1.78E-09	3.13E-08	2.45E-10	3.28E-09	4.98E-10	4.98E-10	2.74E-10	4.79E-09	1.33E-10	1.78E-09	2.21E-10	2.21E-10	1.10E-10	2.46E-09
1827	256995.58	4084297.53	1.64E-09	2.19E-08	3.24E-09	3.24E-09	1.81E-09	3.18E-08	2.49E-10	3.33E-09	5.06E-10	5.06E-10	2.78E-10	4.87E-09	1.35E-10	1.80E-09	2.25E-10	2.25E-10	1.11E-10	2.50E-09
1828	257035.82	4084278.94	1.67E-09	2.23E-08	3.30E-09	3.30E-09	1.84E-09	3.24E-08	2.53E-10	3.40E-09	5.15E-10	5.15E-10	2.83E-10	4.96E-09	1.38E-10	1.84E-09	2.29E-10	2.29E-10	1.13E-10	2.55E-09
1829	257076.07	4084260.35	1.70E-09	2.27E-08	3.36E-09	3.36E-09	1.87E-09	3.30E-08	2.58E-10	3.46E-09	5.25E-10	5.25E-10	2.88E-10	5.06E-09	1.40E-10	1.87E-09	2.33E-10	2.33E-10	1.16E-10	2.60E-09
1830	257116.31	4084241.75	1.72E-09	2.30E-08	3.40E-09	3.40E-09	1.90E-09	3.34E-08	2.61E-10	3.50E-09	5.31E-10	5.31E-10	2.92E-10	5.12E-09	1.42E-10	1.89E-09	2.36E-10	2.36E-10	1.17E-10	2.63E-09
1831	257156.56	4084223.16	1.73E-09	2.31E-08	3.41E-09	3.41E-09	1.90E-09	3.35E-08	2.62E-10	3.51E-09	5.33E-10	5.33E-10	2.93E-10	5.13E-09	1.42E-10	1.90E-09	2.37E-10	2.37E-10	1.17E-10	2.64E-09
1832	257196.8	4084204.57	1.72E-09	2.30E-08	3.40E-09	3.40E-09	1.89E-09	3.34E-08	2.61E-10	3.50E-09	5.30E-10	5.30E-10	2.92E-10	5.11E-09	1.42E-10	1.89E-09	2.36E-10	2.36E-10	1.17E-10	2.62E-09
1833	257237.05	4084185.98	1.70E-09	2.27E-08	3.35E-09	3.35E-09	1.87E-09	3.30E-08	2.58E-10	3.45E-09	5.24E-10	5.24E-10	2.88E-10	5.05E-09	1.40E-10	1.87E-09	2.33E-10	2.33E-10	1.15E-10	2.59E-09
1834	257277.29	4084167.38	1.67E-09	2.23E-08	3.30E-09	3.30E-09	1.84E-09	3.24E-08	2.53E-10	3.40E-09	5.15E-10	5.15E-10	2.83E-10	4.96E-09	1.38E-10	1.84E-09	2.29E-10	2.29E-10	1.13E-10	2.55E-09
1835	257317.54	4084148.79	1.64E-09	2.19E-08	3.24E-09	3.24E-09	1.81E-09	3.19E-08	2.49E-10	3.34E-09	5.07E-10	5.07E-10	2.79E-10	4.88E-09	1.35E-10	1.81E-09	2.25E-10	2.25E-10	1.12E-10	2.51E-09
1836	257357.78	4084130.2	1.62E-09	2.17E-08	3.20E-09	3.20E-09	1.79E-09	3.15E-08	2.46E-10	3.30E-09	5.00E-10	5.00E-10	2.75E-10	4.82E-09	1.34E-10	1.79E-09	2.23E-10	2.23E-10	1.10E-10	2.47E-09
1837	257398.03	4084111.61	1.61E-09	2.16E-08	3.19E-09	3.19E-09	1.78E-09	3.13E-08	2.45E-10	3.28E-09	4.98E-10	4.98E-10	2.74E-10	4.80E-09	1.33E-10	1.78E-09	2.22E-10	2.22E-10	1.10E-10	2.46E-09
1838	257438.27	4084093.01	1.62E-09	2.16E-08	3.20E-09	3.20E-09	1.78E-09	3.14E-08	2.46E-10	3.29E-09	4.99E-10	4.99E-10	2.75E-10	4.81E-09	1.33E-10	1.78E-09	2.22E-10	2.22E-10	1.10E-10	2.47E-09
1839	257478.52	4084074.42	1.64E-09	2.18E-08	3.23E-09	3.23E-09	1.80E-09	3.17E-08	2.48E-10	3.33E-09	5.05E-10	5.05E-10	2.77E-10	4.86E-09	1.35E-10	1.80E-09	2.25E-10	2.25E-10	1.11E-10	2.50E-09
1840	256657.17	4085010.67	4.42E-09	5.90E-08	8.73E-09	8.73E-09	4.87E-09	8.57E-08	6.70E-10	8.99E-09	1.36E-09	1.36E-09	7.49E-10	1.31E-08	3.64E-10	4.86E-09	6.06E-10	6.06E-10	3.00E-10	6.74E-09
1841	256658.82	4085055.24	4.75E-09	6.34E-08	9.38E-09	9.38E-09	5.23E-09	9.22E-08	7.21E-10	9.66E-09	1.47E-09	1.47E-09	8.06E-10	1.41E-08	3.91E-10	5.23E-09	6.52E-10	6.52E-10	3.23E-10	7.25E-09
1842	256660.47	4085099.8	4.98E-09	6.66E-08	9.85E-09	9.85E-09	5.49E-09	9.67E-08	7.56E-10	1.01E-08	1.54E-09	1.54E-09	8.45E-10	1.48E-08	4.11E-10	5.49E-09	6.84E-10	6.84E-10	3.39E-10	7.61E-09
1843	256662.13	4085144.36	5.14E-09	6.87E-08	1.02E-08	1.02E-08	5.67E-09	9.98E-08	7.81E-10	1.05E-08	1.59E-09	1.59E-09	8.73E-10	1.53E-08	4.24E-10	5.66E-09	7.06E-10	7.06E-10	3.50E-10	7.85E-09
1844	256662.95	4085166.64	5.21E-09	6.96E-08	1.03E-08	1.03E-08	5.74E-09	1.01E-07	7.91E-10	1.06E-08	1.61E-09	1.61E-09	8.84E-10	1.55E-08	4.29E-10	5.74E-09	7.15E-10	7.15E-10	3.54E-10	7.95E-09
1845	256464.16	4084975.07	3.37E-09	4.50E-08	6.65E-09	6.65E-09	3.71E-09	6.54E-08	5.11E-10	6.85E-09	1.04E-09	1.04E-09	5.71E-10	1.00E-08	2.78E-10	3.71E-09	4.62E-10	4.62E-10	2.29E-10	5.14E-09
1846	256479.51	4084933.62	3.12E-09	4.17E-08	6.16E-09	6.16E-09	3.44E-09	6.06E-08	4.73E-10	6.35E-09	9.63E-10	9.63E-10	5.29E-10	9.28E-09	2.57E-10	3.43E-09	4.28E-10	4.28E-10	2.12E-10	4.76E-09
1847	256494.86	4084892.17	2.88E-09	3.85E-08	5.69E-09	5.69E-09	3.17E-09	5.59E-08	4.37E-10	5.86E-09	8.89E-10	8.89E-10	4.89E-10	8.57E-09	2.37E-10	3.17E-09	3.95E-10	3.95E-10	1.96E-10	4.40E-09
1848	256510.21	4084850.72	2.67E-09	3.57E-08	5.28E-09	5.28E-09	2.94E-09	5.18E-08	4.05E-10	5.43E-09	8.24E-10	8.24E-10	4.53E-10	7.94E-09	2.20E-10	2.94E-09	3.67E-10	3.67E-10	1.81E-10	4.07E-09
1849	256525.56	4084809.27	2.50E-09	3.34E-08	4.94E-09	4.94E-09	2.76E-09	4.86E-08	3.80E-10	5.09E-09	7.72E-10	7.72E-10	4.24E-10	7.44E-09	2.06E-10	2.75E-09	3.43E-10	3.43E-10	1.70E-10	3.82E-09
1850	256540.91	4084767.82	2.37E-09	3.16E-08	4.68E-09	4.68E-09	2.61E-09	4.60E-08	3.59E-10	4.82E-09	7.31E-10	7.31E-10	4.02E-10	7.04E-09	1.95E-10	2.61E-09	3.25E-10	3.25E-10	1.61E-10	3.61E-09
1851	256556.26	4084726.36	2.26E-09	3.01E-08	4.46E-09	4.46E-09	2.49E-09	4.38E-08	3.42E-10	4.59E-09	6.96E-10	6.96E-10	3.83E-10	6.71E-09	1.86E-10	2.48E-09	3.10E-10	3.10E-10	1.53E-10	3.44E-09
1852	256571.61	4084684.91	2.15E-09	2.87E-08	4.25E-09	4.25E-09	2.37E-09	4.18E-08	3.27E-10	4.38E-09	6.64E-10	6.64E-10	3.65E-10	6.40E-09	1.77E-10	2.37E-09	2.95E-10	2.95E-10	1.46E-10	3.28E-09
1853	256586.96	4084643.46	2.04E-09	2.72E-08	4.02E-09	4.02E-09	2.24E-09	3.95E-08	3.09E-10	4.14E-09	6.28E-10	6.28E-10	3.46E-10	6.06E-09	1.68E-10	2.24E-09	2.80E-10	2.80E-10	1.38E-10	3.11E-09
1854	256602.31	4084602.01	1.91E-09	2.55E-08	3.77E-09	3.77E-09	2.10E-09	3.71E-08	2.90E-10	3.89E-09	5.89E-10	5.89E-10	3.24E-10	5.68E-09	1.57E-10	2.10E-09	2.62E-10	2.62E-10	1.30E-10	2.91E-09
1855	256617.66	4084560.56	1.78E-09	2.37E-08	3.51E-09	3.51E-09	1.96E-09	3.45E-08	2.70E-10	3.61E-09	5.48E-10	5.48E-10	3.01E-10	5.28E-09	1.46E-10	1.96E-09	2.44E-10	2.44E-10	1.21E-10	2.71E-09
1856	256633.01	4084519.11	1.65E-09	2.20E-08	3.26E-09	3.26E-09	1.82E-09	3.20E-08	2.50E-10	3.36E-09	5.09E-10	5.09E-10	2.80E-10	4.90E-09	1.36E-10	1.82E-09	2.26E-10	2.26E-10	1.12E-10	2.52E-09
1857	256648.36	4084477.66	1.54E-09	2.06E-08	3.05E-09	3.05E-09	1.70E-09	2.99E-08	2.34E-10	3.14E-09	4.76E-10	4.76E-10	2.61E-10	4.58E-09	1.27E-10	1.70E-09	2.12E-10	2.12E-10	1.05E-10	2.35E-09
1858	256663.71	4084436.2	1.46E-09	1.95E-08	2.89E-09	2.89E-09	1.61E-09	2.84E-08	2.22E-10	2.97E-09	4.51E-10	4.51E-10	2.48E-10	4.34E-09	1.20E-10	1.61E-09	2.01E-10	2.01E-10	9.92E-11	2.23E-09
1859	256679.06	4084394.75	1.40E-09	1.87E-08	2.77E-09	2.77E-09	1.55E-09	2.72E-08	2.13E-10	2.86E-09	4.33E-10	4.33E-10	2.38E-10	4.17E-09	1.16E-10	1.54E-09	1.93E-10	1.93E-10	9.54E-11	2.14E-09
1860	256694.41	4084353.3	1.36E-09	1.82E-08	2.69E-09	2.69E-09	1.50E-09	2.65E-08	2.07E-10	2.77E-09	4.21E-10	4.21E-10	2.31E-10	4.05E-09	1.12E-10	1.50E-09	1.87E-10	1.87E-10	9.26E-11	2.08E-09
1861	256709.76	4084311.85	1.33E-09	1.78E-08	2.63E-09	2.63E-09	1.47E-09	2.59E-08	2.02E-10	2.71E-09	4.11E-10	4.11E-10	2.26E-10	3.96E-09	1.10E-10	1.47E-09	1.83E-10	1.83E-10	9.05E-11	2.03E-09
1862	256725.11	4084270.4	1.30E-09	1.74E-08	2.58E-09	2.58E-09	1.44E-09	2.53E-08	1.98E-10	2.65E-09	4.02E-10	4.02E-10	2.21E-10	3.88E-09	1.07E-10	1.44E-09	1.79E-10	1.79E-10	8.86E-11	1.99E-09
1863	256740.46	4084228.95	1.28E-09	1.70E-08	2.52E-09	2.52E-09	1.41E-09	2.48E-08	1.94E-10	2.60E-09	3.94E-10	3.94E-10	2.16E-10	3.79E-09	1.05E-10	1.41E-09	1.75E-10	1.75E-10	8.67E-11	1.95E-09
1864	256768.19	4084198.95	1.27E-09	1.70E-08	2.51E-09	2.51E-09	1.40E-09	2.47E-08	1.93E-10	2.59E-09	3.92E-10	3.92E-10	2.16E-10	3.78E-09	1.05E-10	1.40E-09	1.75E-10	1.75E-10	8.64E-11	1.94E-09
1865	256808.32	4084180.41	1.29E-09	1.72E-08	2.54E-09	2.54E-09	1.42E-09	2.50E-08	1.95E-10	2.62E-09	3.97E-10	3.97E-10	2.18E-10	3.82E-09	1.06E-10	1.42E-09	1.76E-10	1.76E-10	8.74E-11	1.96E-09
1866	256848.45	4084161.88	1.30E-09	1.74E-08	2.57E-09	2.57E-09	1.44E-09	2.53E-08	1.98E-10	2.65E-09	4.02E-10	4.02E-10	2.21E-10	3.87E-09	1.07E-10	1.43E-09	1.79E-10	1.79E-10	8.85E-11	1.99E-09
1867	256888.58	4084143.34	1.32E-09	1.76E-08	2.61E-09	2.61E-09	1.45E-09	2.56E-08	2.00E-10	2.69E-09	4.07E-10	4.07E-10	2.24E-10	3.92E-09	1.09E-10	1.45E-09	1.81E-10	1.81E-10	8.97E-11	2.01E-09
1868	256928.7	4084124.8	1.34E-09	1.79E-08	2.64E-09	2.64E-09	1.47E-09	2.60E-08	2.03E-10	2.72E-09	4.13E-10	4.13E-10	2.27E-10	3.98E-09	1.10E-10	1.47E-09	1.84E-10	1.84E-10	9.09E-11	2.04E-09
1869	256968.83	4084106.26	1.35E-09	1.80E-08	2.67E-09	2.67E-09	1.49E-09	2.62E-08	2.05E-10	2.75E-09	4.17E-10	4.17E-10	2.29E-10	4.02E-09	1.11E-10	1.49E-09	1.85E-10	1.85E-10	9.18E-11	2.06E-09
1870	257008.96	4084087.72	1.36E-09	1.81E-08	2.68E-09	2.68E-09	1.49E-09	2.63E-08	2.06E-10	2.76E-09	4.18E-10	4.18E-10	2.30E-10	4.03E-09	1.12E-10	1.49E-09	1.86E-10	1.86E-10	9.21E-11	2.07E-09
1871	257049.08	4084069.19	1.35E-09	1.80E-08	2.67E-09	2.67E-09	1.49E-09	2.62E-08	2.05E-10	2.75E-09	4.17E-10	4.17E-10	2.29E-10	4.02E-09	1.11E-10	1.49E-09	1.85E-10	1.85E-10	9.18E-11	2.06E-09
1872	257089.21	4084050.65	1.34E-09	1.79E-08	2.64E-09	2.64E-09	1.47E-09	2.60E-08	2.03E-10	2.72E-09	4.13E-10	4.13E-10	2.27E-10	3.98E-09	1.10E-10	1.47E-09	1.84E-10	1.84E-10	9.09E-11	2.04E-09
1873	257129.34	4084032.11	1.32E-09	1.76E-08	2.61E-09	2.61E-09	1.45E-09	2.56E-08	2.00E-10	2.69E-09	4.07E-10	4.07E-10	2.24E-10	3.92E-09	1.09E-10	1.45E-09	1.81E-10	1.81E-10	8.97E-11	2.01E-09
1874	257169.47	4084013.57	1.30E-09	1.74E-08	2.57E-09	2.57E-09	1.43E-09	2.52E-08	1.97E-10	2.64E-09	4.01E-10	4.01E-10	2.20E-10	3.86E-09	1.07E-10	1.43E-09	1.78E-10	1.78E-10	8.83E-11	1.98E-09
1875	257209.59	4083995.03	1.28E-09	1.71E-08	2.53E-09	2.53E-09	1.41E-09	2.48E-08	1.94E-10	2.60E-09	3.95E-10	3.95E-10	2.17E-10	3.80E-09	1.05E-10	1.41E-09	1.76E-10	1.76E-10	8.69E-11	1.95E-09
1876	257249.72	4083976.5	1.26E-09	1.69E-08	2.49E-09	2.49E-09	1.39E-09	2.45E-08	1.92E-10	2.57E-09	3.89E-10	3.89E-10	2.14E-10	3.75E-09	1.04E-10	1.39E-09	1.73E-10	1.73E-10	8.58E-11	1.93E-09
1877	257289.85	4083957.96	1.25E-09	1.67E-08	2.47E-09	2.47E-09	1.38E-09	2.43E-08	1.90E-10	2.55E-09	3.86E-10	3.86E-10	2.12E-10	3.72E-09	1.03E-10	1.38E-09	1.72E-10	1.72E-10	8.50E-11	1.91E-09
1878	257329.97	4083939.42	1.25E-09	1.66E-08	2.46E-09	2.46E-09	1.37E-09	2.42E-08	1.89E-10	2.53E-09	3.84E-10	3.84E-10	2.11E-10	3.70E-09	1.03E-10	1.37E-09	1.71E-10	1.71E-10	8.46E-11	1.90E-09
1879	257370.1	4083920.88	1.25E-09	1.66E-08	2.46E-09	2.46E-09	1.37E-09	2.42E-08	1.89E-10	2.53E-09	3.84E-10	3.84E-10	2.11E-10	3.70E-09	1.03E-10	1.37E-09	1.71E-10	1.71E-10	8.46E-11	1.90E-09
1880	257410.23	4083902.34	1.25E-09	1.67E-08	2.47E-09	2.47E-09	1.38E-09	2.42E-08	1.89E-10	2.54E-09	3.85E-10	3.85E-10	2.12E-10	3.71E-09	1.03E-10	1.37E-09	1.71E-10	1.71E-10	8.48E-11	1.91E-09
1881	257450.36	4083883.81	1.25E-09	1.68E-08	2.48E-09	2.48E-09	1.38E-09	2.44E-08	1.90E-10	2.55E-09	3.87E-10	3.87E-10	2.13E-10	3.73E-09	1.03E-10	1.38E-09	1.72E-10	1.72E-10	8.52E-11	1.91E-09
1882	256457.31	4085018.08	3.61E-09	4.82E-08	7.13E-09	7.13E-09	3.98E-09	7.01E-08	5.48E-10	7.34E-09	1.11E-09	1.11E-09	6.12E-10	1.07E-08	2.97E-10	3.97E-09	4.95E-10	4.95E-10	2.45E-10	5.51E-09
1883	256458.96	4085062.64	3.82E-09	5.11E-08	7.56E-09	7.56E-09	4.21E-09	7.42E-08	5.80E-10	7.78E-09	1.18E-09	1.18E-09	6.49E-10	1.14E-08	3.15E-10	4.21E-09	5.25E-10	5.25E-10	2.60E-10	5.84E-09
1884	256460.61	4085107.2	3.96E-09	5.30E-08	7.84E-09	7.84E-09	4.37E-09	7.70E-08	6.02E-10	8.07E-09	1.22E-09	1.22E-09	6.73E-10	1.18E-08	3.27E-10	4.37E-09	5.44E-10	5.44E-10	2.69E-10	6.05E-09

1885	256462.26	4085151.77	4.05E-09	5.41E-08	8.01E-09	8.01E-09	4.47E-09	7.87E-08	6.15E-10	8.25E-09	1.25E-09	1.25E-09	6.88E-10	1.21E-08	3.34E-10	4.46E-09	5.56E-10	5.56E-10	2.75E-10	6.19E-09
1886	256463.91	4085196.33	4.13E-09	5.51E-08	8.15E-09	8.15E-09	4.55E-09	8.01E-08	6.26E-10	8.40E-09	1.27E-09	1.27E-09	7.00E-10	1.23E-08	3.40E-10	4.54E-09	5.66E-10	5.66E-10	2.80E-10	6.30E-09
1887	256264.28	4084982.52	2.88E-09	3.85E-08	5.69E-09	5.69E-09	3.17E-09	5.59E-08	4.37E-10	5.86E-09	8.89E-10	8.89E-10	4.89E-10	8.57E-09	2.37E-10	3.17E-09	3.95E-10	3.95E-10	1.96E-10	4.40E-09
1888	256279.6	4084941.15	2.70E-09	3.60E-08	5.33E-09	5.33E-09	2.97E-09	5.23E-08	4.09E-10	5.49E-09	8.32E-10	8.32E-10	4.57E-10	8.02E-09	2.22E-10	2.97E-09	3.70E-10	3.70E-10	1.83E-10	4.11E-09
1889	256294.92	4084899.78	2.51E-09	3.35E-08	4.96E-09	4.96E-09	2.76E-09	4.87E-08	3.81E-10	5.11E-09	7.74E-10	7.74E-10	4.26E-10	7.46E-09	2.07E-10	2.76E-09	3.44E-10	3.44E-10	1.71E-10	3.83E-09
1890	256310.24	4084858.42	2.34E-09	3.12E-08	4.62E-09	4.62E-09	2.58E-09	4.54E-08	3.55E-10	4.76E-09	7.21E-10	7.21E-10	3.96E-10	6.95E-09	1.93E-10	2.57E-09	3.21E-10	3.21E-10	1.59E-10	3.57E-09
1891	256325.56	4084817.05	2.19E-09	2.93E-08	4.33E-09	4.33E-09	2.41E-09	4.25E-08	3.33E-10	4.46E-09	6.76E-10	6.76E-10	3.72E-10	6.52E-09	1.81E-10	2.41E-09	3.01E-10	3.01E-10	1.49E-10	3.34E-09
1892	256340.87	4084775.68	2.08E-09	2.77E-08	4.10E-09	4.10E-09	2.29E-09	4.03E-08	3.15E-10	4.22E-09	6.40E-10	6.40E-10	3.52E-10	6.17E-09	1.71E-10	2.29E-09	2.85E-10	2.85E-10	1.41E-10	3.17E-09
1893	256356.19	4084734.31	1.98E-09	2.65E-08	3.92E-09	3.92E-09	2.19E-09	3.85E-08	3.01E-10	4.04E-09	6.12E-10	6.12E-10	3.37E-10	5.90E-09	1.64E-10	2.18E-09	2.72E-10	2.72E-10	1.35E-10	3.03E-09
1894	256371.51	4084692.95	1.91E-09	2.55E-08	3.77E-09	3.77E-09	2.10E-09	3.70E-08	2.90E-10	3.88E-09	5.89E-10	5.89E-10	3.24E-10	5.67E-09	1.57E-10	2.10E-09	2.62E-10	2.62E-10	1.30E-10	2.91E-09
1895	256386.83	4084651.58	1.84E-09	2.45E-08	3.63E-09	3.63E-09	2.02E-09	3.57E-08	2.79E-10	3.74E-09	5.67E-10	5.67E-10	3.12E-10	5.46E-09	1.51E-10	2.02E-09	2.52E-10	2.52E-10	1.25E-10	2.80E-09
1896	256402.15	4084610.21	1.76E-09	2.35E-08	3.48E-09	3.48E-09	1.94E-09	3.42E-08	2.67E-10	3.58E-09	5.43E-10	5.43E-10	2.98E-10	5.23E-09	1.45E-10	1.94E-09	2.42E-10	2.42E-10	1.20E-10	2.68E-09
1897	256417.47	4084568.84	1.67E-09	2.23E-08	3.30E-09	3.30E-09	1.84E-09	3.24E-08	2.54E-10	3.40E-09	5.16E-10	5.16E-10	2.83E-10	4.97E-09	1.38E-10	1.84E-09	2.29E-10	2.29E-10	1.14E-10	2.55E-09
1898	256432.79	4084527.48	1.57E-09	2.10E-08	3.10E-09	3.10E-09	1.73E-09	3.05E-08	2.38E-10	3.19E-09	4.84E-10	4.84E-10	2.66E-10	4.67E-09	1.29E-10	1.73E-09	2.15E-10	2.15E-10	1.07E-10	2.39E-09
1899	256448.11	4084486.11	1.46E-09	1.95E-08	2.88E-09	2.88E-09	1.61E-09	2.83E-08	2.21E-10	2.97E-09	4.50E-10	4.50E-10	2.47E-10	4.33E-09	1.20E-10	1.60E-09	2.00E-10	2.00E-10	9.90E-11	2.22E-09
1900	256463.43	4084444.74	1.35E-09	1.81E-08	2.67E-09	2.67E-09	1.49E-09	2.62E-08	2.05E-10	2.75E-09	4.17E-10	4.17E-10	2.29E-10	4.02E-09	1.11E-10	1.49E-09	1.86E-10	1.86E-10	9.19E-11	2.06E-09
1901	256478.74	4084403.37	1.26E-09	1.69E-08	2.49E-09	2.49E-09	1.39E-09	2.45E-08	1.92E-10	2.57E-09	3.89E-10	3.89E-10	2.14E-10	3.75E-09	1.04E-10	1.39E-09	1.73E-10	1.73E-10	8.58E-11	1.93E-09
1902	256494.06	4084362	1.19E-09	1.59E-08	2.36E-09	2.36E-09	1.31E-09	2.32E-08	1.81E-10	2.43E-09	3.68E-10	3.68E-10	2.02E-10	3.55E-09	9.83E-11	1.31E-09	1.64E-10	1.64E-10	8.10E-11	1.82E-09
1903	256509.38	4084320.64	1.15E-09	1.53E-08	2.27E-09	2.27E-09	1.26E-09	2.22E-08	1.74E-10	2.33E-09	3.54E-10	3.54E-10	1.94E-10	3.41E-09	9.45E-11	1.26E-09	1.57E-10	1.57E-10	7.79E-11	1.75E-09
1904	256524.7	4084279.27	1.12E-09	1.49E-08	2.21E-09	2.21E-09	1.23E-09	2.17E-08	1.70E-10	2.28E-09	3.45E-10	3.45E-10	1.90E-10	3.33E-09	9.22E-11	1.23E-09	1.54E-10	1.54E-10	7.60E-11	1.71E-09
1905	256540.02	4084237.9	1.10E-09	1.47E-08	2.18E-09	2.18E-09	1.22E-09	2.14E-08	1.67E-10	2.24E-09	3.40E-10	3.40E-10	1.87E-10	3.28E-09	9.09E-11	1.21E-09	1.51E-10	1.51E-10	7.49E-11	1.68E-09
1906	256555.34	4084196.53	1.09E-09	1.46E-08	2.16E-09	2.16E-09	1.20E-09	2.12E-08	1.66E-10	2.23E-09	3.37E-10	3.37E-10	1.85E-10	3.25E-09	9.01E-11	1.20E-09	1.50E-10	1.50E-10	7.43E-11	1.67E-09
1907	256570.66	4084155.17	1.09E-09	1.45E-08	2.15E-09	2.15E-09	1.20E-09	2.11E-08	1.65E-10	2.21E-09	3.35E-10	3.35E-10	1.84E-10	3.23E-09	8.95E-11	1.20E-09	1.49E-10	1.49E-10	7.38E-11	1.66E-09
1908	256585.98	4084113.8	1.08E-09	1.44E-08	2.13E-09	2.13E-09	1.19E-09	2.09E-08	1.64E-10	2.19E-09	3.33E-10	3.33E-10	1.83E-10	3.21E-09	8.89E-11	1.19E-09	1.48E-10	1.48E-10	7.33E-11	1.64E-09
1909	256621.32	4084063.18	1.07E-09	1.43E-08	2.12E-09	2.12E-09	1.18E-09	2.08E-08	1.62E-10	2.18E-09	3.30E-10	3.30E-10	1.82E-10	3.18E-09	8.82E-11	1.18E-09	1.47E-10	1.47E-10	7.27E-11	1.63E-09
1910	256661.36	4084044.68	1.08E-09	1.44E-08	2.13E-09	2.13E-09	1.19E-09	2.10E-08	1.64E-10	2.20E-09	3.33E-10	3.33E-10	1.83E-10	3.21E-09	8.90E-11	1.19E-09	1.48E-10	1.48E-10	7.34E-11	1.65E-09
1911	256701.41	4084026.18	1.09E-09	1.45E-08	2.15E-09	2.15E-09	1.20E-09	2.11E-08	1.65E-10	2.21E-09	3.35E-10	3.35E-10	1.84E-10	3.23E-09	8.95E-11	1.20E-09	1.49E-10	1.49E-10	7.38E-11	1.66E-09
1912	256741.46	4084007.68	1.09E-09	1.46E-08	2.16E-09	2.16E-09	1.20E-09	2.12E-08	1.66E-10	2.22E-09	3.37E-10	3.37E-10	1.85E-10	3.25E-09	9.00E-11	1.20E-09	1.50E-10	1.50E-10	7.42E-11	1.67E-09
1913	256781.5	4083989.18	1.10E-09	1.47E-08	2.17E-09	2.17E-09	1.21E-09	2.13E-08	1.67E-10	2.23E-09	3.39E-10	3.39E-10	1.86E-10	3.27E-09	9.05E-11	1.21E-09	1.51E-10	1.51E-10	7.46E-11	1.68E-09
1914	256821.55	4083970.68	1.10E-09	1.47E-08	2.18E-09	2.18E-09	1.22E-09	2.14E-08	1.67E-10	2.24E-09	3.40E-10	3.40E-10	1.87E-10	3.28E-09	9.09E-11	1.21E-09	1.51E-10	1.51E-10	7.49E-11	1.68E-09
1915	256861.59	4083952.18	1.10E-09	1.48E-08	2.18E-09	2.18E-09	1.22E-09	2.14E-08	1.68E-10	2.25E-09	3.41E-10	3.41E-10	1.87E-10	3.28E-09	9.10E-11	1.22E-09	1.52E-10	1.52E-10	7.50E-11	1.69E-09
1916	256901.64	4083933.68	1.10E-09	1.47E-08	2.18E-09	2.18E-09	1.22E-09	2.14E-08	1.67E-10	2.24E-09	3.40E-10	3.40E-10	1.87E-10	3.28E-09	9.09E-11	1.21E-09	1.51E-10	1.51E-10	7.49E-11	1.68E-09
1917	256941.69	4083915.18	1.10E-09	1.46E-08	2.17E-09	2.17E-09	1.21E-09	2.13E-08	1.66E-10	2.23E-09	3.38E-10	3.38E-10	1.86E-10	3.26E-09	9.04E-11	1.21E-09	1.51E-10	1.51E-10	7.45E-11	1.67E-09
1918	256981.73	4083896.67	1.09E-09	1.45E-08	2.15E-09	2.15E-09	1.20E-09	2.11E-08	1.65E-10	2.21E-09	3.35E-10	3.35E-10	1.84E-10	3.23E-09	8.96E-11	1.20E-09	1.49E-10	1.49E-10	7.39E-11	1.66E-09
1919	257021.78	4083878.17	1.08E-09	1.44E-08	2.13E-09	2.13E-09	1.19E-09	2.09E-08	1.63E-10	2.19E-09	3.32E-10	3.32E-10	1.83E-10	3.20E-09	8.87E-11	1.19E-09	1.48E-10	1.48E-10	7.31E-11	1.64E-09
1920	257061.82	4083859.67	1.07E-09	1.42E-08	2.11E-09	2.11E-09	1.17E-09	2.07E-08	1.62E-10	2.17E-09	3.29E-10	3.29E-10	1.81E-10	3.17E-09	8.78E-11	1.17E-09	1.46E-10	1.46E-10	7.24E-11	1.63E-09
1921	257101.87	4083841.17	1.06E-09	1.41E-08	2.09E-09	2.09E-09	1.16E-09	2.05E-08	1.60E-10	2.15E-09	3.26E-10	3.26E-10	1.79E-10	3.14E-09	8.71E-11	1.16E-09	1.45E-10	1.45E-10	7.18E-11	1.61E-09
1922	257141.92	4083822.67	1.05E-09	1.40E-08	2.07E-09	2.07E-09	1.15E-09	2.03E-08	1.59E-10	2.13E-09	3.23E-10	3.23E-10	1.78E-10	3.11E-09	8.63E-11	1.15E-09	1.44E-10	1.44E-10	7.11E-11	1.60E-09
1923	257181.96	4083804.17	1.04E-09	1.39E-08	2.05E-09	2.05E-09	1.14E-09	2.01E-08	1.57E-10	2.11E-09	3.20E-10	3.20E-10	1.76E-10	3.09E-09	8.55E-11	1.14E-09	1.42E-10	1.42E-10	7.05E-11	1.58E-09
1924	257222.01	4083785.67	1.03E-09	1.37E-08	2.03E-09	2.03E-09	1.13E-09	2.00E-08	1.56E-10	2.09E-09	3.17E-10	3.17E-10	1.74E-10	3.06E-09	8.48E-11	1.13E-09	1.41E-10	1.41E-10	6.99E-11	1.57E-09
1925	257262.05	4083767.17	1.02E-09	1.36E-08	2.02E-09	2.02E-09	1.12E-09	1.98E-08	1.55E-10	2.08E-09	3.15E-10	3.15E-10	1.73E-10	3.03E-09	8.41E-11	1.12E-09	1.40E-10	1.40E-10	6.94E-11	1.56E-09
1926	257302.1	4083748.67	1.01E-09	1.35E-08	2.00E-09	2.00E-09	1.12E-09	1.97E-08	1.54E-10	2.06E-09	3.13E-10	3.13E-10	1.72E-10	3.01E-09	8.35E-11	1.12E-09	1.39E-10	1.39E-10	6.88E-11	1.55E-09
1927	257342.15	4083730.17	1.01E-09	1.34E-08	1.99E-09	1.99E-09	1.11E-09	1.95E-08	1.53E-10	2.05E-09	3.10E-10	3.10E-10	1.71E-10	2.99E-09	8.29E-11	1.11E-09	1.38E-10	1.38E-10	6.83E-11	1.53E-09
1928	257382.19	4083711.67	9.99E-10	1.33E-08	1.97E-09	1.97E-09	1.10E-09	1.94E-08	1.52E-10	2.03E-09	3.08E-10	3.08E-10	1.69E-10	2.97E-09	8.23E-11	1.10E-09	1.37E-10	1.37E-10	6.79E-11	1.52E-09
1929	257422.24	4083693.17	9.94E-10	1.33E-08	1.97E-09	1.97E-09	1.10E-09	1.93E-08	1.51E-10	2.02E-09	3.07E-10	3.07E-10	1.69E-10	2.96E-09	8.20E-11	1.09E-09	1.37E-10	1.37E-10	6.76E-11	1.52E-09
1930	257462.28	4083674.67	9.91E-10	1.32E-08	1.96E-09	1.96E-09	1.09E-09	1.92E-08	1.50E-10	2.02E-09	3.06E-10	3.06E-10	1.68E-10	2.95E-09	8.17E-11	1.09E-09	1.36E-10	1.36E-10	6.74E-11	1.51E-09
1931	256257.45	4085025.49	3.05E-09	4.08E-08	6.04E-09	6.04E-09	3.37E-09	5.93E-08	4.64E-10	6.22E-09	9.42E-10	9.42E-10	5.18E-10	9.08E-09	2.52E-10	3.36E-09	4.19E-10	4.19E-10	2.08E-10	4.66E-09
1932	256259.1	4085070.05	3.20E-09	4.28E-08	6.33E-09	6.33E-09	3.53E-09	6.21E-08	4.86E-10	6.51E-09	9.88E-10	9.88E-10	5.43E-10	9.52E-09	2.64E-10	3.52E-09	4.40E-10	4.40E-10	2.18E-10	4.89E-09
1933	256260.75	4085114.61	3.29E-09	4.40E-08	6.50E-09	6.50E-09	3.63E-09	6.39E-08	5.00E-10	6.70E-09	1.02E-09	1.02E-09	5.58E-10	9.79E-09	2.71E-10	3.62E-09	4.52E-10	4.52E-10	2.24E-10	5.02E-09
1934	256261.57	4085136.89	3.32E-09	4.44E-08	6.56E-09	6.56E-09	3.66E-09	6.45E-08	5.04E-10	6.76E-09	1.02E-09	1.02E-09	5.63E-10	9.87E-09	2.74E-10	3.66E-09	4.56E-10	4.56E-10	2.26E-10	5.07E-09
1935	256263.23	4085181.45	3.36E-09	4.49E-08	6.65E-09	6.65E-09	3.71E-09	6.53E-08	5.11E-10	6.85E-09	1.04E-09	1.04E-09	5.71E-10	1.00E-08	2.77E-10	3.70E-09	4.62E-10	4.62E-10	2.29E-10	5.13E-09
1936	256064.41	4084989.96	2.52E-09	3.37E-08	4.98E-09	4.98E-09	2.78E-09	4.89E-08	3.83E-10	5.13E-09	7.78E-10	7.78E-10	4.28E-10	7.50E-09	2.08E-10	2.78E-09	3.46E-10	3.46E-10	1.71E-10	3.85E-09
1937	256079.7	4084948.65	2.39E-09	3.19E-08	4.71E-09	4.71E-09	2.63E-09	4.63E-08	3.62E-10	4.85E-09	7.36E-10	7.36E-10	4.05E-10	7.09E-09	1.97E-10	2.63E-09	3.27E-10	3.27E-10	1.62E-10	3.64E-09
1938	256095	4084907.34	2.24E-09	2.99E-08	4.42E-09	4.42E-09	2.46E-09	4.34E-08	3.39E-10	4.55E-09	6.90E-10	6.90E-10	3.79E-10	6.65E-09	1.84E-10	2.46E-09	3.07E-10	3.07E-10	1.52E-10	3.41E-09
1939	256110.3	4084866.04	2.09E-09	2.80E-08	4.14E-09	4.14E-09	2.31E-09	4.06E-08	3.18E-10	4.26E-09	6.46E-10	6.46E-10	3.55E-10	6.23E-09	1.73E-10	2.31E-09	2.87E-10	2.87E-10	1.42E-10	3.20E-09
1940	256125.59	4084824.73	1.97E-09	2.63E-08	3.89E-09	3.89E-09	2.17E-09	3.82E-08	2.99E-10	4.00E-09	6.07E-10	6.07E-10	3.34E-10	5.85E-09	1.62E-10	2.17E-09	2.70E-10	2.70E-10	1.34E-10	3.00E-09
1941	256140.89	4084783.42	1.86E-09	2.49E-08	3.68E-09	3.68E-09	2.05E-09	3.61E-08	2.83E-10	3.79E-09	5.74E-10	5.74E-10	3.16E-10	5.54E-09	1.53E-10	2.05E-09	2.56E-10	2.56E-10	1.27E-10	2.84E-09
1942	256156.18	4084742.12	1.78E-09	2.38E-08	3.51E-09	3.51E-09	1.96E-09	3.45E-08	2.70E-10	3.62E-09	5.49E-10	5.49E-10	3.02E-10	5.29E-09	1.47E-10	1.96E-09	2.44E-10	2.44E-10	1.21E-10	2.71E-09
1943	256171.48	4084700.81	1.71E-09	2.29E-08	3.38E-09	3.38E-09	1.89E-09	3.32E-08	2.60E-10	3.48E-09	5.28E-10	5.28E-10	2.90E-10	5.09E-09	1.41E-10	1.88E-09	2.35E-10	2.35E-10	1.16E-10	2.61E-09
1944	256186.78	4084659.5	1.66E-09	2.21E-08	3.27E-09	3.27E-09	1.82E-09	3.21E-08	2.51E-10	3.37E-09	5.11E-10	5.11E-10	2.81E-10	4.92E-09	1.36E-10	1.82E-09	2.27E-10	2.27E-10	1.13E-10	2.53E-09
1945	256202.07	4084618.2	1.60E-09	2.14E-08	3.17E-09	3.17E-09	1.77E-09	3.11E-08	2.44E-10	3.27E-09	4.95E-10	4.95E-10	2.72E-10	4.77E-09	1.32E-10	1.77E-09	2.20E-10	2.20E-10	1.09E-10	2.45E-09
1946	256217.37	4084576.89	1.55E-09	2.07E-08	3.06E-09	3.06E-09	1.71E-09	3.01E-08	2.35E-10	3.15E-09	4.78E-10	4.78E-10	2.63E-10	4.61E-09	1.28E-10	1.71E-09	2.13E-10	2.13E-10	1.05E-10	2.37E-09
1947	256232.66	4084535.58	1.49E-09	1.99E-08	2.94E-09	2.94E-09	1.64E-09	2.89E-08	2.26E-10	3.03E-09	4.59E-10	4.59E-10	2.52E-10	4.43E-09	1.23E-10	1.64E-09	2.04E-10	2.04E-10	1.01E-10	2.27E-09
1948	256247.96	4084494.28	1.41E-09	1.89E-08	2.79E-09	2.79E-09	1.56E-09	2.74E-08	2.14E-10	2.87E-09	4.36E-10	4.36E-10	2.40E-10	4.20E-09	1.16E-10	1.56E-09	1.94E-10	1.94E-10	9.60E-11	2.16E-09
1949	256263.26	4084452.97	1.32E-09	1.77E-08	2.61E-09	2.61E-09	1.46E-09	2.57E-08	2.01E-10	2.69E-09	4.08E-10	4.08E-10	2.24E-10	3.93E-09	1.09E-10	1.46E-09	1.82E-10	1.82E-10	8.99E-11	2.02E-09
1950	256278.55	4084411.66	1.23E-09	1.65E-08	2.44E-09	2.44E-09	1.36E-09	2.39E-08	1.87E-10	2.51E-09	3.80E-10	3.80E-10	2.09E-10	3.67E-09	1.02E-10	1.36E-09	1.69E-10	1.69E-10	8.38E-11	1.88E-09
1951	256293.85	4084370.36	1.14E-09	1.53E-08	2.26E-09	2.26E-09	1.26E-09	2.22E-08	1.73E-10	2.33E-09	3.53E-10	3.53E-10	1.94E-10	3.40E-09	9.42E-11	1.26E-09	1.57E-10	1.57E-10	7.77E-11	1.74E-09
1952	256309.15	4084329.05	1.07E-09	1.42E-08	2.11E-09	2.11E-09	1.17E-09	2.07E-08	1.62E-10	2.17E-09	3.29E-10	3.29E-10	1.81E-10	3.17E-09	8.78E-11	1.17E-09	1.46E-10	1.46E-10	7.24E-11	1.63E-09
1953	256324.44	4084287.74	1.01E-09	1.34E-08	1.99E-09	1.99E-09	1.11E-09	1.95E-08	1.53E-10	2.05E-09	3.10E-10	3.10E-10	1.71E-10	2.99E-09	8.29E-11	1.11E-09	1.38E-10	1.38E-10	6.83E-11	1.53E-09
1954	256339.74	4084246.44	9.63E-10	1.29E-08	1.90E-09	1.90E-09	1.06E-09	1.87E-08	1.46E-10	1.96E-09	2.97E-10	2.97E-10	1.63E-10	2.86E-09	7.94E-11	1.06E-09	1.32E-10	1.32E-10	6.55E-11	1.47E-09
1955	256355.03	4084205.13	9.39E-10	1.25E-08	1.85E-09	1.85E-09	1.03E-09	1.82E-08	1.42E-10	1.91E-09	2.90E-10	2.90E-10	1.59E-10	2.79E-09	7.74E-11	1.03E-09	1.29E-10	1.29E-10	6.38E-11	1.43E-09
1956	256370.33	4084163.83	9.29E-10	1.24E-08	1.84E-09	1.84E-09	1.02E-09	1.80E-08	1.41E-10	1.89E-09	2.87E-10	2.87E-10	1.58E-10	2.76E-09	7.66E-11	1.02E-09	1.28E-10	1.28E-10	6.32E-11	1.42E-09
1957	256385.63	4084122.52	9.29E-10	1.24E-08	1.84E-09	1.84E-09	1.02E-09	1.80E-08	1.41E-10	1.89E-09	2.87E-10	2.87E-10	1.58E-10	2.76E-09	7.66E-11	1.02E-09	1.28E-10	1.28E-10	6.32E-11	1.42E-09
1958	256400.92	4084081.21	9.34E-10	1.25E-08	1.85E-09	1.85E-09	1.03E-09	1.81E-08	1.42E-10	1.90E-09	2.88E-10	2.88E-10	1.58E-10	2.78E-09	7.70E-11	1.03E-09	1.28E-10	1.28E-10	6.35E-11	1.43E-09
1959	256416.22	4084039.91	9.37E-10	1.25E-08	1.85E-09	1.85E-09	1.03E-09	1.82E-08	1.42E-10	1.91E-09	2.89E-10	2.89E-10	1.59E-10	2.79E-09	7.72E-11	1.03E-09	1.29E-10	1.29E-10	6.37E-11	1.43E-09
1960	256431.51	4083998.6	9.39E-10	1.25E-08	1.85E-09	1.85E-09	1.03E-09	1.82E-08	1.42E-10	1.91E-09	2.90E-10	2.90E-10	1.59E-10	2.79E-09	7.74E-11	1.03E-09	1.29E-10	1.29E-10	6.38E-11	1.43E-09
1961	256446.81	4083957.29	9.32E-10	1.25E-08	1.84E-09	1.84E-09	1.03E-09	1.81E-08	1.42E-10	1.90E-09	2.88E-10	2.88E-10	1.58E-10	2.77E-09	7.69E-11	1.03E-09	1.28E-10	1.28E-10	6.34E-11	1.42E-09
1962	256474.45	4083927.4	9.31E-10	1.24E-08	1.84E-09	1.84E-09	1.03E-09	1.81E-08	1.41E-10	1.89E-09	2.87E-10	2.87E-10	1.58E-10	2.77E-09	7.67E-11	1.02E-09	1.28E-10	1.28E-10	6.33E-11	1.42E-09
1963	256514.44	4083908.93	9.34E-10	1.25E-08	1.85E-09	1.85E-09	1.03E-09	1.81E-08	1.42E-10	1.90E-09	2.88E-10	2.88E-10	1.58E-10	2.78E-09	7.70E-11	1.03E-09	1.28E-10	1.28E-10	6.35E-11	1.43E-09
1964	256554.43	4083890.46	9.34E-10	1.25E-08	1.85E-09	1.85E-09	1.03E-09	1.81E-08	1.42E-10	1.90E-09	2.88E-10	2.88E-10	1.58E-10	2.78E-09	7.70E-11	1.03E-09	1.28E-10	1.28E-10	6.35E-11	1.43E-09
1965	256594.41	4083871.98	9.31E-10	1.24E-08	1.84E-09	1.84E-09	1.03E-09	1.81E-08	1.41E-10	1.89E-09	2.87E-10	2.87E-10	1.58E-10	2.77E-09	7.67E-11	1.02E-09	1.28E-10	1.28E-10	6.33E-11	1.42E-09
1966	256634.4	4083853.51	9.28E-10	1.24E-08	1.83E-09	1.83E-09	1.02E-09	1.80E-08	1.41E-10	1.89E-09	2.86E-10	2.86E-10	1.57E-10	2.76E-09	7.65E-11	1.02E-09	1.27E-10	1.27E-10	6.30E-11	1.42E-09
1967	256674.39	4083835.04	9.26E-10	1.24E-08	1.83E-09	1.83E-09	1.02E-09	1.80E-08	1.41E-10	1.88E-09	2.86E-10	2.86E-10	1.57E-10	2.75E-09	7.63E-11	1.02E-09	1.27E-10	1.27E-10	6.29E-11	1.41E-09
1968	256714.37	4083816.56	9.25E-10	1.24E-08	1.83E-09	1.83E-09	1.02E-09	1.79E-08	1.40E-10	1.88E-09	2.85E-10	2.85E-10	1.57E-10	2.75E-09	7.62E-11	1.02E-09	1.27E-10	1.27E-10	6.28E-11	1.41E-09
1969	256754.36	4083798.09	9.23E-10	1.23E-08	1.82E-09	1.82E-09	1.02E-09	1.79E-08	1.40E-10	1.88E-09	2.85E-10	2.85E-10	1.57E-10	2.74E-09	7.61E-11	1.02E-09	1.27E-10	1.27E-10	6.27E-11	1.41E-09
1970	256794.35	4083779.62	9.20E-10	1.23E-08	1.82E-09	1.82E-09	1.01E-09	1.79E-08	1.40E-10	1.87E-09	2.84E-10	2.84E-10	1.56E-10	2.74E-09	7.58E-11	1.01E-09	1.26E-10	1.26E-10	6.25E-11	1.40E-09
1971	256834.33	4083761.14	9.17E-10	1.22E-08	1.81E-09	1.81E-09	1.01E-09	1.78E-08	1.39E-10	1.87E-09	2.83E-10	2.83E-10	1.56E-10	2.73E-09	7.56E-11	1.01E-09	1.26E-10	1.26E-10	6.23E-11	1.40E-09
1972	256874.32	4083742.67	9.15E-10	1.22E-08	1.81E-09	1.81E-09	1.01E-09	1.78E-08	1.39E-10	1.86E-09	2.82E-10	2.82E-10	1.55E-10	2.72E-09	7.55E-11	1.01E-09	1.26E-10	1.26E-10	6.22E-11	1.40E-09
1973	256914.31	4083724.2	9.12E-10	1.22E-08	1.80E-09	1.80E-09	1.01E-09	1.77E-08	1.38E-10	1.86E-09	2.81E-10	2.81E-10	1.55E-10	2.71E-09	7.52E-11	1.00E-09	1.25E-10	1.25E-10	6.20E-11	1.39E-09
1974	256954.29	4083705.72	9.09E-10	1.21E-08	1.80E-09	1.80E-09	1.00E-09	1.76E-08	1.38E-10	1.85E-09	2.81E-10	2.81E-10	1.54E-10	2.70E-09	7.49E-11	1.00E-09	1.25E-10	1.25E-10	6.18E-11	1.39E-09
1975	256994.28	4083687.25	9.06E-10	1.21E-08	1.79E-09	1.79E-09	9.98E-10	1.76E-08	1.38E-10	1.84E-09	2.80E-10	2.80E-10	1.54E-10	2.69E-09	7.47E-11	9.98E-10	1.24E-10	1.24E-10	6.16E-11	1.38E-09
1976	257034.27	4083668.78	9.01E-10	1.20E-08	1.78E-09	1.78E-09	9.93E-10	1.75E-08	1.37E-10	1.83E-09	2.78E-10	2.78E-10	1.53E-10	2.68E-09	7.43E-11	9.92E-10	1.24E-10	1.24E-10	6.13E-11	1.38E-09
1977	257074.25	4083650.3	8.95E-10	1.20E-08	1.77E-09	1.77E-09	9.86E-10	1.74E-08	1.36E-10	1.82E-09	2.76E-10	2.76E-10	1.52E-10	2.66E-09	7.38E-11	9.86E-10	1.23E-10	1.23E-10	6.08E-11	1.37E-09
1978	257114.24	4083631.83	8.87E-10	1.19E-08	1.75E-09	1.75E-09	9.78E-10	1.72E-08	1.35E-10	1.81E-09	2.74E-10	2.74E-10	1.51E-10	2.64E-09	7.32E-11	9.77E-10	1.22E-10	1.22E-10	6.03E-11	1.35E-09
1979	257154.23	4083613.36	8.78E-10	1.17E-08	1.74E-09	1.74E-09	9.68E-10	1.70E-08	1.33E-10	1.79E-09	2.71E-10	2.71E-10	1.49E-10	2.61E-09	7.24E-11	9.67E-10	1.21E-10	1.21E-10	5.97E-11	1.34E-09
1980	257194.21	4083594.88	8.66E-10	1.16E-08	1.71E-09	1.71E-09	9.54E-10	1.68E-08	1.31E-10	1.76E-09	2.67E-10	2.67E-10	1.47E-10	2.57E-09	7.14E-11	9.53E-10	1.19E-10	1.19E-10	5.88E-11	1.32E-09
1981	257234.2	4083576.41	8.52E-10	1.14E-08	1.68E-09	1.68E-09	9.39E-10	1.65E-08	1.29E-10	1.73E-09	2.63E-10	2.63E-10	1.45E-10	2.53E-09	7.02E-11	9.38E-10	1.17E-10	1.17E-10	5.79E-11	1.30E-09
1982	257274.19	4083557.94	8.38E-10	1.12E-08	1.66E-09	1.66E-09	9.23E-10	1.63E-08	1.27E-10	1.71E-09	2.59E-10	2.59E-10	1.42E-10	2.49E-09	6.91E-11	9.23E-10	1.15E-10	1.15E-10	5.69E-11	1.28E-09
1983	257314.18	4083539.47	8.24E-10	1.10E-08	1.63E-09	1.63E-09	9.08E-10	1.60E-08	1.25E-10	1.68E-09	2.54E-10	2.54E-10	1.40E-10	2.45E-09	6.79E-11	9.07E-10	1.13E-10	1.13E-10	5.60E-11	1.26E-09
1984	257354.16	4083520.99	8.13E-10	1.09E-08	1.61E-09	1.61E-09	8.96E-10	1.58E-08	1.23E-10	1.65E-09	2.51E-10	2.51E-10	1.38E-10	2.42E-09	6.70E-11	8.95E-10	1.12E-10	1.12E-10	5.53E-11	1.24E-09
1985	257394.15	4083502.52	8.05E-10	1.08E-08	1.59E-09	1.59E-09	8.87E-10	1.56E-08	1.22E-10	1.64E-09	2.49E-10	2.49E-10	1.37E-10	2.39E-09	6.64E-11	8.87E-10	1.11E-10	1.11E-10	5.47E-11	1.23E-09
1986	257434.14	4083484.05	8.02E-10	1.07E-08	1.59E-09	1.59E-09	8.84E-10	1.56E-08	1.22E-10	1.63E-09	2.48E-10	2.48E-10	1.36E-10	2.39E-09	6.61E-11	8.83E-10	1.10E-10	1.10E-10	5.45E-11	1.22E-09
1987	256057.58	4085032.89	2.65E-09	3.54E-08	5.23E-09	5.23E-09	2.92E-09	5.14E-08	4.02E-10	5.39E-09	8.17E-10	8.17E-10	4.49E-10	7.88E-09	2.18E-10	2.92E-09	3.64E-10	3.64E-10	1.80E-10	4.04E-09
1988	256059.24	4085077.45	2.75E-09	3.68E-08	5.44E-09	5.44E-09	3.03E-09	5.35E-08	4.18E-10	5.60E-09	8.50E-10	8.50E-10	4.67E-10	8.19E-09	2.27E-10	3.03E-09	3.78E-10	3.78E-10	1.87E-10	4.20E-09
1989	256060.89	4085122.02	2.81E-09	3.76E-08	5.56E-09	5.56E-09	3.10E-09	5.46E-08	4.27E-10	5.73E-09	8.68E-10	8.68E-10	4.77E-10	8.37E-09	2.32E-10	3.10E-09	3.86E-10	3.86E-10	1.91E-10	4.29E-09
1990	256062.54	4085166.58	2.85E-09	3.80E-08	5.62E-09	5.62E-09	3.13E-09	5.52E-08	4.32E-10	5.79E-09	8.78E-10	8.78E-10	4.83E-10	8.46E-09	2.35E-10	3.13E-09	3.91E-10	3.91E-10	1.93E-10	4.34E-09
1991	256064.19	4085211.14	2.87E-09	3.83E-08	5.67E-09	5.67E-09	3.16E-09	5.57E-08	4.35E-10	5.84E-09	8.85E-10	8.85E-10	4.87E-10	8.53E-09	2.36E-10	3.16E-09	3.94E-10	3.94E-10	1.95E-10	4.38E-09
1992	257564.27	4085180.58	3.45E-07	4.61E-06	6.83E-07	6.83E-07	3.81E-07	6.71E-06	5.24E-08	7.03E-07	1.07E-07	1.07E-07	5.86E-08	1.03E-06	2.85E-08	3.80E-07	4.74E-08	4.74E-08	2.35E-08	5.27E-07
1993	257588.55	4085179.5	4.07E-07	5.44E-06	8.05E-07	8.05E-07	4.49E-07	7.91E-06	6.18E-08	8.29E-07	1.26E-07	1.26E-07	6.91E-08	1.21E-06	3.36E-08	4.49E-07	5.59E-08	5.59E-08	2.77E-08	6.22E-07
1994	257612.83	4085178.42	4.44E-07	5.93E-06	8.78E-07	8.78E-07	4.89E-07	8.62E-06	6.74E-08	9.04E-07	1.37E-07	1.37E-07	7.53E-08	1.32E-06	3.66E-08	4.89E-07	6.10E-08	6.10E-08	3.02E-08	6.78E-07
1995	257637.11	4085177.35	4.67E-07	6.24E-06	9.23E-07	9.23E-07	5.14E-07	9.06E-06	7.09E-08	9.50E-07	1.44E-07	1.44E-07	7.92E-08	1.39E-06	3.85E-08	5.14E-07	6.41E-08	6.41E-08	3.17E-08	7.12E-07
1996	257661.39	4085176.27	4.82E-07	6.44E-06	9.53E-07	9.53E-07	5.31E-07	9.36E-06	7.32E-08	9.81E-07	1.49E-07	1.49E-07	8.18E-08	1.43E-06	3.97E-08	5.31E-07	6.62E-08	6.62E-08	3.28E-08	7.36E-07
1997	257685.68	4085175.2	4.93E-07	6.58E-06	9.74E-07	9.74E-07	5.43E-07	9.57E-06	7.48E-08	1.00E-06	1.52E-07	1.52E-07	8.36E-08	1.47E-06	4.06E-08	5.43E-07	6.77E-08	6.77E-08	3.35E-08	7.52E-07
1998	257709.96	4085174.12	5.01E-07	6.69E-06	9.90E-07	9.90E-07	5.52E-07	9.72E-06	7.60E-08	1.02E-06	1.55E-07	1.55E-07	8.49E-08	1.49E-06	4.13E-08	5.51E-07	6.87E-08	6.87E-08	3.40E-08	7.64E-07
1999	257734.24	4085173.05	5.07E-07	6.77E-06	1.00E-06	1.00E-06	5.58E-07	9.83E-06	7.69E-08	1.03E-06	1.56E-07	1.56E-07	8.59E-08	1.51E-06	4.18E-08	5.58E-07	6.95E-08	6.95E-08	3.44E-08	7.73E-07
2000	257758.52	4085171.97	5.11E-07	6.82E-06	1.01E-06	1.01E-06	5.63E-07	9.92E-06	7.75E-08	1.04E-06	1.58E-07	1.58E-07	8.67E-08	1.52E-06	4.21E-08	5.63E-07	7.01E-08	7.01E-08	3.47E-08	7.80E-07
2001	257782.8	4085170.9	5.14E-07	6.87E-06	1.02E-06	1.02E-06	5.66E-07	9.98E-06	7.80E-08	1.05E-06	1.59E-07	1.59E-07	8.72E-08	1.53E-06	4.24E-08	5.66E-07	7.06E-08	7.06E-08	3.49E-08	7.84E-07
2002	257807.08	4085169.82	5.16E-07	6.90E-06	1.02E-06	1.02E-06	5.69E-07	1.00E-05	7.84E-08	1.05E-06	1.59E-07	1.59E-07	8.76E-08	1.54E-06	4.26E-08	5.69E-07	7.09E-08	7.09E-08	3.51E-08	7.88E-07

2003	257831.37	4085168.75	5.18E-07	6.92E-06	1.02E-06	1.02E-06	5.71E-07	1.01E-05	7.86E-08	1.05E-06	1.60E-07	1.60E-07	8.78E-08	1.54E-06	4.27E-08	5.70E-07	7.11E-08	7.11E-08	3.52E-08	7.90E-07
2004	257855.65	4085167.67	5.19E-07	6.93E-06	1.03E-06	1.03E-06	5.72E-07	1.01E-05	7.87E-08	1.06E-06	1.60E-07	1.60E-07	8.80E-08	1.54E-06	4.28E-08	5.71E-07	7.12E-08	7.12E-08	3.53E-08	7.92E-07
2005	257879.93	4085166.59	5.19E-07	6.94E-06	1.03E-06	1.03E-06	5.72E-07	1.01E-05	7.88E-08	1.06E-06	1.60E-07	1.60E-07	8.81E-08	1.54E-06	4.28E-08	5.72E-07	7.13E-08	7.13E-08	3.53E-08	7.92E-07
2006	257904.21	4085165.52	5.19E-07	6.93E-06	1.03E-06	1.03E-06	5.72E-07	1.01E-05	7.88E-08	1.06E-06	1.60E-07	1.60E-07	8.81E-08	1.54E-06	4.28E-08	5.72E-07	7.13E-08	7.13E-08	3.53E-08	7.92E-07
2007	257928.49	4085164.44	5.19E-07	6.93E-06	1.03E-06	1.03E-06	5.71E-07	1.01E-05	7.87E-08	1.06E-06	1.60E-07	1.60E-07	8.80E-08	1.54E-06	4.28E-08	5.71E-07	7.12E-08	7.12E-08	3.52E-08	7.92E-07
2008	257952.78	4085163.37	5.18E-07	6.92E-06	1.02E-06	1.02E-06	5.70E-07	1.00E-05	7.86E-08	1.05E-06	1.60E-07	1.60E-07	8.78E-08	1.54E-06	4.27E-08	5.70E-07	7.11E-08	7.11E-08	3.52E-08	7.90E-07
2009	257977.06	4085162.29	5.16E-07	6.89E-06	1.02E-06	1.02E-06	5.69E-07	1.00E-05	7.83E-08	1.05E-06	1.59E-07	1.59E-07	8.76E-08	1.53E-06	4.25E-08	5.68E-07	7.09E-08	7.09E-08	3.51E-08	7.88E-07
2010	258001.34	4085161.22	5.14E-07	6.87E-06	1.02E-06	1.02E-06	5.67E-07	9.98E-06	7.80E-08	1.05E-06	1.59E-07	1.59E-07	8.72E-08	1.53E-06	4.24E-08	5.66E-07	7.06E-08	7.06E-08	3.49E-08	7.85E-07
2011	258025.62	4085160.14	5.12E-07	6.84E-06	1.01E-06	1.01E-06	5.64E-07	9.94E-06	7.77E-08	1.04E-06	1.58E-07	1.58E-07	8.68E-08	1.52E-06	4.22E-08	5.64E-07	7.03E-08	7.03E-08	3.48E-08	7.81E-07
2012	258049.9	4085159.07	5.09E-07	6.80E-06	1.01E-06	1.01E-06	5.61E-07	9.88E-06	7.72E-08	1.04E-06	1.57E-07	1.57E-07	8.63E-08	1.51E-06	4.19E-08	5.60E-07	6.99E-08	6.99E-08	3.46E-08	7.76E-07
2013	258074.18	4085157.99	5.05E-07	6.74E-06	9.97E-07	9.97E-07	5.56E-07	9.80E-06	7.66E-08	1.03E-06	1.56E-07	1.56E-07	8.56E-08	1.50E-06	4.16E-08	5.56E-07	6.93E-08	6.93E-08	3.43E-08	7.70E-07
2014	258098.47	4085156.92	4.92E-07	6.57E-06	9.71E-07	9.71E-07	5.42E-07	9.54E-06	7.46E-08	1.00E-06	1.52E-07	1.52E-07	8.34E-08	1.46E-06	4.05E-08	5.41E-07	6.75E-08	6.75E-08	3.34E-08	7.50E-07
2015	258122.75	4085155.84	4.85E-07	6.48E-06	9.59E-07	9.59E-07	5.34E-07	9.42E-06	7.36E-08	9.87E-07	1.50E-07	1.50E-07	8.23E-08	1.44E-06	4.00E-08	5.34E-07	6.66E-08	6.66E-08	3.30E-08	7.40E-07
2016	258147.03	4085154.76	4.77E-07	6.38E-06	9.44E-07	9.44E-07	5.26E-07	9.27E-06	7.25E-08	9.72E-07	1.47E-07	1.47E-07	8.10E-08	1.42E-06	3.94E-08	5.26E-07	6.56E-08	6.56E-08	3.24E-08	7.29E-07
2017	258171.31	4085153.69	4.68E-07	6.25E-06	9.25E-07	9.25E-07	5.16E-07	9.08E-06	7.10E-08	9.52E-07	1.44E-07	1.44E-07	7.94E-08	1.39E-06	3.86E-08	5.15E-07	6.42E-08	6.42E-08	3.18E-08	7.14E-07
2018	258195.59	4085152.61	4.56E-07	6.09E-06	9.01E-07	9.01E-07	5.02E-07	8.85E-06	6.92E-08	9.27E-07	1.41E-07	1.41E-07	7.73E-08	1.36E-06	3.76E-08	5.02E-07	6.26E-08	6.26E-08	3.10E-08	6.95E-07
2019	258219.88	4085151.54	4.40E-07	5.88E-06	8.69E-07	8.69E-07	4.85E-07	8.54E-06	6.68E-08	8.95E-07	1.36E-07	1.36E-07	7.46E-08	1.31E-06	3.63E-08	4.84E-07	6.04E-08	6.04E-08	2.99E-08	6.71E-07
2020	258244.16	4085150.46	4.19E-07	5.60E-06	8.29E-07	8.29E-07	4.62E-07	8.14E-06	6.36E-08	8.53E-07	1.29E-07	1.29E-07	7.11E-08	1.25E-06	3.46E-08	4.62E-07	5.76E-08	5.76E-08	2.85E-08	6.40E-07
2021	258268.44	4085149.39	3.92E-07	5.23E-06	7.74E-07	7.74E-07	4.32E-07	7.60E-06	5.94E-08	7.97E-07	1.21E-07	1.21E-07	6.64E-08	1.16E-06	3.23E-08	4.31E-07	5.38E-08	5.38E-08	2.66E-08	5.98E-07
2022	258292.72	4085148.31	3.54E-07	4.73E-06	7.00E-07	7.00E-07	3.90E-07	6.87E-06	5.37E-08	7.21E-07	1.09E-07	1.09E-07	6.01E-08	1.05E-06	2.92E-08	3.90E-07	4.86E-08	4.86E-08	2.41E-08	5.40E-07
2023	258317	4085147.24	3.02E-07	4.04E-06	5.97E-07	5.97E-07	3.33E-07	5.87E-06	4.59E-08	6.15E-07	9.33E-08	9.33E-08	5.13E-08	8.99E-07	2.49E-08	3.33E-07	4.15E-08	4.15E-08	2.05E-08	4.61E-07
2024	258341.28	4085146.16	2.35E-07	3.14E-06	4.65E-07	4.65E-07	2.59E-07	4.57E-06	3.57E-08	4.79E-07	7.26E-08	7.26E-08	3.99E-08	7.00E-07	1.94E-08	2.59E-07	3.23E-08	3.23E-08	1.60E-08	3.59E-07
2025	258365.57	4085145.09	1.69E-07	2.26E-06	3.35E-07	3.35E-07	1.87E-07	3.29E-06	2.57E-08	3.45E-07	5.23E-08	5.23E-08	2.87E-08	5.04E-07	1.40E-08	1.87E-07	2.33E-08	2.33E-08	1.15E-08	2.59E-07
2026	257547.32	4085198.96	2.39E-07	3.20E-06	4.73E-07	4.73E-07	2.64E-07	4.64E-06	3.63E-08	4.87E-07	7.38E-08	7.38E-08	4.06E-08	7.11E-07	1.97E-08	2.63E-07	3.28E-08	3.28E-08	1.63E-08	3.65E-07
2027	257589.65	4085204.48	2.78E-07	3.72E-06	5.50E-07	5.50E-07	3.07E-07	5.40E-06	4.22E-08	5.66E-07	8.59E-08	8.59E-08	4.72E-08	8.27E-07	2.29E-08	3.06E-07	3.82E-08	3.82E-08	1.89E-08	4.25E-07
2028	257613.94	4085203.4	2.99E-07	3.99E-06	5.91E-07	5.91E-07	3.29E-07	5.80E-06	4.54E-08	6.08E-07	9.22E-08	9.22E-08	5.07E-08	8.89E-07	2.46E-08	3.29E-07	4.10E-08	4.10E-08	2.03E-08	4.56E-07
2029	257638.22	4085202.32	3.14E-07	4.19E-06	6.20E-07	6.20E-07	3.45E-07	6.09E-06	4.76E-08	6.38E-07	9.67E-08	9.67E-08	5.32E-08	9.32E-07	2.58E-08	3.45E-07	4.30E-08	4.30E-08	2.13E-08	4.78E-07
2030	257662.5	4085201.25	3.24E-07	4.33E-06	6.40E-07	6.40E-07	3.57E-07	6.29E-06	4.92E-08	6.59E-07	1.00E-07	1.00E-07	5.50E-08	9.63E-07	2.67E-08	3.57E-07	4.45E-08	4.45E-08	2.20E-08	4.94E-07
2031	257686.78	4085200.17	3.32E-07	4.43E-06	6.56E-07	6.56E-07	3.66E-07	6.44E-06	5.04E-08	6.75E-07	1.02E-07	1.02E-07	5.63E-08	9.87E-07	2.74E-08	3.65E-07	4.56E-08	4.56E-08	2.25E-08	5.06E-07
2032	257711.06	4085199.1	3.38E-07	4.51E-06	6.67E-07	6.67E-07	3.72E-07	6.56E-06	5.13E-08	6.87E-07	1.04E-07	1.04E-07	5.73E-08	1.00E-06	2.78E-08	3.72E-07	4.64E-08	4.64E-08	2.30E-08	5.15E-07
2033	257735.35	4085198.02	3.42E-07	4.57E-06	6.76E-07	6.76E-07	3.77E-07	6.64E-06	5.20E-08	6.97E-07	1.06E-07	1.06E-07	5.81E-08	1.02E-06	2.82E-08	3.77E-07	4.70E-08	4.70E-08	2.33E-08	5.22E-07
2034	257759.63	4085196.95	3.46E-07	4.62E-06	6.83E-07	6.83E-07	3.81E-07	6.71E-06	5.25E-08	7.04E-07	1.07E-07	1.07E-07	5.87E-08	1.03E-06	2.85E-08	3.81E-07	4.75E-08	4.75E-08	2.35E-08	5.28E-07
2035	257783.91	4085195.87	3.49E-07	4.66E-06	6.89E-07	6.89E-07	3.84E-07	6.77E-06	5.29E-08	7.09E-07	1.08E-07	1.08E-07	5.91E-08	1.04E-06	2.87E-08	3.84E-07	4.78E-08	4.78E-08	2.37E-08	5.32E-07
2036	257808.19	4085194.8	3.51E-07	4.68E-06	6.93E-07	6.93E-07	3.86E-07	6.80E-06	5.32E-08	7.13E-07	1.08E-07	1.08E-07	5.95E-08	1.04E-06	2.89E-08	3.86E-07	4.81E-08	4.81E-08	2.38E-08	5.35E-07
2037	257832.47	4085193.72	3.52E-07	4.70E-06	6.96E-07	6.96E-07	3.88E-07	6.83E-06	5.34E-08	7.16E-07	1.09E-07	1.09E-07	5.97E-08	1.05E-06	2.90E-08	3.88E-07	4.83E-08	4.83E-08	2.39E-08	5.37E-07
2038	257856.75	4085192.65	3.53E-07	4.71E-06	6.97E-07	6.97E-07	3.89E-07	6.85E-06	5.36E-08	7.18E-07	1.09E-07	1.09E-07	5.99E-08	1.05E-06	2.91E-08	3.89E-07	4.84E-08	4.84E-08	2.40E-08	5.38E-07
2039	257881.04	4085191.57	3.53E-07	4.72E-06	6.98E-07	6.98E-07	3.89E-07	6.86E-06	5.36E-08	7.19E-07	1.09E-07	1.09E-07	5.99E-08	1.05E-06	2.91E-08	3.89E-07	4.85E-08	4.85E-08	2.40E-08	5.39E-07
2040	257905.32	4085190.49	3.53E-07	4.72E-06	6.98E-07	6.98E-07	3.89E-07	6.86E-06	5.36E-08	7.19E-07	1.09E-07	1.09E-07	5.99E-08	1.05E-06	2.91E-08	3.89E-07	4.85E-08	4.85E-08	2.40E-08	5.39E-07
2041	257929.6	4085189.42	3.53E-07	4.71E-06	6.97E-07	6.97E-07	3.89E-07	6.85E-06	5.36E-08	7.18E-07	1.09E-07	1.09E-07	5.99E-08	1.05E-06	2.91E-08	3.88E-07	4.84E-08	4.84E-08	2.40E-08	5.38E-07
2042	257953.88	4085188.34	3.52E-07	4.70E-06	6.96E-07	6.96E-07	3.88E-07	6.83E-06	5.34E-08	7.16E-07	1.09E-07	1.09E-07	5.97E-08	1.05E-06	2.90E-08	3.88E-07	4.83E-08	4.83E-08	2.39E-08	5.37E-07
2043	257978.16	4085187.27	3.46E-07	4.62E-06	6.84E-07	6.84E-07	3.81E-07	6.72E-06	5.25E-08	7.04E-07	1.07E-07	1.07E-07	5.87E-08	1.03E-06	2.85E-08	3.81E-07	4.75E-08	4.75E-08	2.35E-08	5.28E-07
2044	258002.45	4085186.19	3.44E-07	4.60E-06	6.80E-07	6.80E-07	3.79E-07	6.68E-06	5.22E-08	7.00E-07	1.06E-07	1.06E-07	5.84E-08	1.02E-06	2.84E-08	3.79E-07	4.73E-08	4.73E-08	2.34E-08	5.25E-07
2045	258026.73	4085185.12	3.42E-07	4.56E-06	6.75E-07	6.75E-07	3.77E-07	6.63E-06	5.19E-08	6.95E-07	1.05E-07	1.05E-07	5.80E-08	1.02E-06	2.82E-08	3.76E-07	4.69E-08	4.69E-08	2.32E-08	5.21E-07
2046	258051.01	4085184.04	3.39E-07	4.52E-06	6.69E-07	6.69E-07	3.73E-07	6.57E-06	5.14E-08	6.89E-07	1.04E-07	1.04E-07	5.74E-08	1.01E-06	2.79E-08	3.73E-07	4.65E-08	4.65E-08	2.30E-08	5.17E-07
2047	258075.29	4085182.97	3.35E-07	4.47E-06	6.61E-07	6.61E-07	3.69E-07	6.50E-06	5.08E-08	6.81E-07	1.03E-07	1.03E-07	5.68E-08	9.95E-07	2.76E-08	3.68E-07	4.59E-08	4.59E-08	2.27E-08	5.11E-07
2048	258099.57	4085181.89	3.30E-07	4.40E-06	6.52E-07	6.52E-07	3.63E-07	6.40E-06	5.00E-08	6.71E-07	1.02E-07	1.02E-07	5.59E-08	9.80E-07	2.72E-08	3.63E-07	4.53E-08	4.53E-08	2.24E-08	5.03E-07
2049	258123.85	4085180.82	3.24E-07	4.32E-06	6.40E-07	6.40E-07	3.57E-07	6.28E-06	4.91E-08	6.59E-07	9.99E-08	9.99E-08	5.49E-08	9.62E-07	2.67E-08	3.56E-07	4.44E-08	4.44E-08	2.20E-08	4.94E-07
2050	258148.14	4085179.74	3.16E-07	4.22E-06	6.25E-07	6.25E-07	3.48E-07	6.14E-06	4.80E-08	6.43E-07	9.76E-08	9.76E-08	5.36E-08	9.40E-07	2.61E-08	3.48E-07	4.34E-08	4.34E-08	2.15E-08	4.83E-07
2051	258172.42	4085178.66	3.07E-07	4.10E-06	6.07E-07	6.07E-07	3.38E-07	5.96E-06	4.66E-08	6.25E-07	9.47E-08	9.47E-08	5.21E-08	9.13E-07	2.53E-08	3.38E-07	4.21E-08	4.21E-08	2.09E-08	4.69E-07
2052	258196.7	4085177.59	2.96E-07	3.95E-06	5.84E-07	5.84E-07	3.26E-07	5.74E-06	4.49E-08	6.01E-07	9.12E-08	9.12E-08	5.01E-08	8.79E-07	2.44E-08	3.25E-07	4.06E-08	4.06E-08	2.01E-08	4.51E-07
2053	258220.98	4085176.51	2.81E-07	3.76E-06	5.56E-07	5.56E-07	3.10E-07	5.46E-06	4.27E-08	5.72E-07	8.68E-08	8.68E-08	4.77E-08	8.36E-07	2.32E-08	3.10E-07	3.86E-08	3.86E-08	1.91E-08	4.29E-07
2054	258245.26	4085175.44	2.63E-07	3.52E-06	5.20E-07	5.20E-07	2.90E-07	5.11E-06	4.00E-08	5.36E-07	8.13E-08	8.13E-08	4.47E-08	7.83E-07	2.17E-08	2.90E-07	3.62E-08	3.62E-08	1.79E-08	4.02E-07
2055	258269.55	4085174.36	2.41E-07	3.22E-06	4.77E-07	4.77E-07	2.66E-07	4.68E-06	3.66E-08	4.91E-07	7.44E-08	7.44E-08	4.09E-08	7.17E-07	1.99E-08	2.65E-07	3.31E-08	3.31E-08	1.64E-08	3.68E-07
2056	258293.83	4085173.29	2.14E-07	2.86E-06	4.23E-07	4.23E-07	2.36E-07	4.15E-06	3.25E-08	4.35E-07	6.60E-08	6.60E-08	3.63E-08	6.36E-07	1.76E-08	2.35E-07	2.94E-08	2.94E-08	1.45E-08	3.26E-07
2057	258318.11	4085172.21	1.82E-07	2.43E-06	3.59E-07	3.59E-07	2.00E-07	3.53E-06	2.76E-08	3.70E-07	5.61E-08	5.61E-08	3.08E-08	5.41E-07	1.50E-08	2.00E-07	2.50E-08	2.50E-08	1.24E-08	2.77E-07
2058	258342.39	4085171.14	1.48E-07	1.97E-06	2.92E-07	2.92E-07	1.63E-07	2.86E-06	2.24E-08	3.00E-07	4.55E-08	4.55E-08	2.50E-08	4.39E-07	1.22E-08	1.62E-07	2.03E-08	2.03E-08	1.00E-08	2.25E-07
2059	257548.43	4085223.93	1.91E-07	2.55E-06	3.77E-07	3.77E-07	2.10E-07	3.70E-06	2.89E-08	3.88E-07	5.88E-08	5.88E-08	3.23E-08	5.67E-07	1.57E-08	2.10E-07	2.62E-08	2.62E-08	1.30E-08	2.91E-07
2060	257504.29	4085193.29	1.71E-07	2.28E-06	3.38E-07	3.38E-07	1.88E-07	3.32E-06	2.59E-08	3.48E-07	5.27E-08	5.27E-08	2.90E-08	5.08E-07	1.41E-08	1.88E-07	2.35E-08	2.35E-08	1.16E-08	2.61E-07
2061	257590.76	4085229.45	2.12E-07	2.83E-06	4.18E-07	4.18E-07	2.33E-07	4.11E-06	3.21E-08	4.31E-07	6.53E-08	6.53E-08	3.59E-08	6.29E-07	1.74E-08	2.33E-07	2.91E-08	2.91E-08	1.44E-08	3.23E-07
2062	257615.04	4085228.38	2.25E-07	3.00E-06	4.44E-07	4.44E-07	2.48E-07	4.36E-06	3.41E-08	4.57E-07	6.94E-08	6.94E-08	3.81E-08	6.68E-07	1.85E-08	2.48E-07	3.09E-08	3.09E-08	1.53E-08	3.43E-07
2063	257639.32	4085227.3	2.35E-07	3.14E-06	4.64E-07	4.64E-07	2.59E-07	4.56E-06	3.56E-08	4.78E-07	7.25E-08	7.25E-08	3.98E-08	6.98E-07	1.94E-08	2.59E-07	3.22E-08	3.22E-08	1.60E-08	3.58E-07
2064	257663.61	4085226.22	2.43E-07	3.24E-06	4.79E-07	4.79E-07	2.67E-07	4.71E-06	3.68E-08	4.94E-07	7.48E-08	7.48E-08	4.11E-08	7.21E-07	2.00E-08	2.67E-07	3.33E-08	3.33E-08	1.65E-08	3.70E-07
2065	257687.89	4085225.15	2.48E-07	3.32E-06	4.91E-07	4.91E-07	2.74E-07	4.82E-06	3.77E-08	5.06E-07	7.67E-08	7.67E-08	4.21E-08	7.39E-07	2.05E-08	2.74E-07	3.41E-08	3.41E-08	1.69E-08	3.79E-07
2066	257712.17	4085224.07	2.53E-07	3.38E-06	5.00E-07	5.00E-07	2.79E-07	4.91E-06	3.84E-08	5.15E-07	7.81E-08	7.81E-08	4.29E-08	7.52E-07	2.09E-08	2.79E-07	3.47E-08	3.47E-08	1.72E-08	3.86E-07
2067	257736.45	4085223	2.56E-07	3.43E-06	5.07E-07	5.07E-07	2.83E-07	4.98E-06	3.89E-08	5.22E-07	7.91E-08	7.91E-08	4.35E-08	7.63E-07	2.11E-08	2.82E-07	3.52E-08	3.52E-08	1.74E-08	3.91E-07
2068	257760.73	4085221.92	2.59E-07	3.46E-06	5.12E-07	5.12E-07	2.86E-07	5.03E-06	3.93E-08	5.28E-07	8.00E-08	8.00E-08	4.40E-08	7.71E-07	2.14E-08	2.85E-07	3.56E-08	3.56E-08	1.76E-08	3.96E-07
2069	257785.01	4085220.85	2.61E-07	3.49E-06	5.16E-07	5.16E-07	2.88E-07	5.07E-06	3.97E-08	5.32E-07	8.06E-08	8.06E-08	4.43E-08	7.77E-07	2.15E-08	2.88E-07	3.59E-08	3.59E-08	1.78E-08	3.99E-07
2070	257809.3	4085219.77	2.63E-07	3.51E-06	5.19E-07	5.19E-07	2.90E-07	5.10E-06	3.99E-08	5.35E-07	8.11E-08	8.11E-08	4.46E-08	7.82E-07	2.17E-08	2.89E-07	3.61E-08	3.61E-08	1.79E-08	4.01E-07
2071	257833.58	4085218.7	2.64E-07	3.52E-06	5.22E-07	5.22E-07	2.91E-07	5.12E-06	4.01E-08	5.37E-07	8.14E-08	8.14E-08	4.48E-08	7.85E-07	2.18E-08	2.91E-07	3.62E-08	3.62E-08	1.79E-08	4.03E-07
2072	257857.86	4085217.62	2.65E-07	3.53E-06	5.23E-07	5.23E-07	2.91E-07	5.14E-06	4.01E-08	5.38E-07	8.16E-08	8.16E-08	4.49E-08	7.87E-07	2.18E-08	2.91E-07	3.63E-08	3.63E-08	1.80E-08	4.04E-07
2073	257882.14	4085216.55	2.65E-07	3.54E-06	5.23E-07	5.23E-07	2.92E-07	5.14E-06	4.02E-08	5.39E-07	8.17E-08	8.17E-08	4.49E-08	7.87E-07	2.18E-08	2.91E-07	3.63E-08	3.63E-08	1.80E-08	4.04E-07
2074	257906.42	4085215.47	2.64E-07	3.52E-06	5.21E-07	5.21E-07	2.90E-07	5.12E-06	4.00E-08	5.36E-07	8.13E-08	8.13E-08	4.47E-08	7.84E-07	2.17E-08	2.90E-07	3.62E-08	3.62E-08	1.79E-08	4.02E-07
2075	257930.71	4085214.39	2.61E-07	3.49E-06	5.16E-07	5.16E-07	2.88E-07	5.07E-06	3.96E-08	5.31E-07	8.06E-08	8.06E-08	4.43E-08	7.76E-07	2.15E-08	2.88E-07	3.58E-08	3.58E-08	1.77E-08	3.98E-07
2076	257954.99	4085213.32	2.60E-07	3.47E-06	5.14E-07	5.14E-07	2.87E-07	5.05E-06	3.95E-08	5.29E-07	8.02E-08	8.02E-08	4.41E-08	7.73E-07	2.14E-08	2.86E-07	3.57E-08	3.57E-08	1.77E-08	3.97E-07
2077	257979.27	4085212.24	2.59E-07	3.45E-06	5.11E-07	5.11E-07	2.85E-07	5.02E-06	3.92E-08	5.26E-07	7.98E-08	7.98E-08	4.39E-08	7.69E-07	2.13E-08	2.85E-07	3.55E-08	3.55E-08	1.76E-08	3.95E-07
2078	258003.55	4085211.17	2.57E-07	3.43E-06	5.07E-07	5.07E-07	2.83E-07	4.98E-06	3.89E-08	5.22E-07	7.92E-08	7.92E-08	4.35E-08	7.63E-07	2.11E-08	2.82E-07	3.52E-08	3.52E-08	1.74E-08	3.91E-07
2079	258027.83	4085210.09	2.54E-07	3.39E-06	5.02E-07	5.02E-07	2.80E-07	4.93E-06	3.85E-08	5.17E-07	7.84E-08	7.84E-08	4.31E-08	7.55E-07	2.09E-08	2.80E-07	3.49E-08	3.49E-08	1.73E-08	3.88E-07
2080	258052.11	4085209.02	2.51E-07	3.35E-06	4.95E-07	4.95E-07	2.76E-07	4.87E-06	3.80E-08	5.10E-07	7.73E-08	7.73E-08	4.25E-08	7.45E-07	2.07E-08	2.76E-07	3.44E-08	3.44E-08	1.70E-08	3.83E-07
2081	258076.4	4085207.94	2.47E-07	3.30E-06	4.88E-07	4.88E-07	2.72E-07	4.79E-06	3.74E-08	5.02E-07	7.61E-08	7.61E-08	4.18E-08	7.34E-07	2.03E-08	2.72E-07	3.39E-08	3.39E-08	1.68E-08	3.76E-07
2082	258100.68	4085206.87	2.42E-07	3.23E-06	4.78E-07	4.78E-07	2.66E-07	4.69E-06	3.67E-08	4.92E-07	7.46E-08	7.46E-08	4.10E-08	7.19E-07	1.99E-08	2.66E-07	3.32E-08	3.32E-08	1.64E-08	3.69E-07
2083	258124.96	4085205.79	2.36E-07	3.15E-06	4.66E-07	4.66E-07	2.60E-07	4.58E-06	3.58E-08	4.80E-07	7.28E-08	7.28E-08	4.00E-08	7.02E-07	1.94E-08	2.60E-07	3.24E-08	3.24E-08	1.60E-08	3.60E-07
2084	258149.24	4085204.72	2.29E-07	3.06E-06	4.52E-07	4.52E-07	2.52E-07	4.44E-06	3.47E-08	4.66E-07	7.06E-08	7.06E-08	3.88E-08	6.81E-07	1.89E-08	2.52E-07	3.14E-08	3.14E-08	1.56E-08	3.49E-07
2085	258173.52	4085203.64	2.20E-07	2.94E-06	4.35E-07	4.35E-07	2.43E-07	4.28E-06	3.34E-08	4.48E-07	6.80E-08	6.80E-08	3.74E-08	6.55E-07	1.82E-08	2.43E-07	3.03E-08	3.03E-08	1.50E-08	3.36E-07
2086	258197.81	4085202.56	2.10E-07	2.81E-06	4.15E-07	4.15E-07	2.31E-07	4.08E-06	3.19E-08	4.28E-07	6.48E-08	6.48E-08	3.56E-08	6.25E-07	1.73E-08	2.31E-07	2.88E-08	2.88E-08	1.43E-08	3.21E-07
2087	258222.09	4085201.49	1.98E-07	2.64E-06	3.91E-07	3.91E-07	2.18E-07	3.84E-06	3.00E-08	4.02E-07	6.10E-08	6.10E-08	3.36E-08	5.88E-07	1.63E-08	2.18E-07	2.72E-08	2.72E-08	1.34E-08	3.02E-07
2088	258246.37	4085200.41	1.83E-07	2.45E-06	3.62E-07	3.62E-07	2.02E-07	3.56E-06	2.78E-08	3.73E-07	5.65E-08	5.65E-08	3.11E-08	5.45E-07	1.51E-08	2.02E-07	2.52E-08	2.52E-08	1.25E-08	2.80E-07
2089	258270.65	4085199.34	1.66E-07	2.22E-06	3.29E-07	3.29E-07	1.83E-07	3.23E-06	2.52E-08	3.38E-07	5.13E-08	5.13E-08	2.82E-08	4.94E-07	1.37E-08	1.83E-07	2.28E-08	2.28E-08	1.13E-08	2.54E-07
2090	258294.93	4085198.26	1.47E-07	1.97E-06	2.91E-07	2.91E-07	1.62E-07	2.86E-06	2.23E-08	2.99E-07	4.54E-08	4.54E-08	2.50E-08	4.37E-07	1.21E-08	1.62E-07	2.02E-08	2.02E-08	1.00E-08	2.25E-07
2091	258319.21	4085197.19	1.27E-07	1.69E-06	2.50E-07	2.50E-07	1.39E-07	2.46E-06	1.92E-08	2.58E-07	3.91E-08	3.91E-08	2.15E-08	3.76E-07	1.04E-08	1.39E-07	1.74E-08	1.74E-08	8.60E-09	1.93E-07
2092	258343.5	4085196.11	1.06E-07	1.42E-06	2.10E-07	2.10E-07	1.17E-07	2.06E-06	1.61E-08	2.16E-07	3.28E-08	3.28E-08	1.80E-08	3.16E-07	8.76E-09	1.17E-07	1.46E-08	1.46E-08	7.22E-09	1.62E-07
2093	258367.78	4085195.04	8.81E-08	1.18E-06	1.74E-07	1.74E-07	9.71E-08	1.71E-06	1.34E-08	1.79E-07	2.72E-08	2.72E-08	1.50E-08	2.62E-07	7.27E-09	9.71E-08	1.21E-08	1.21E-08	5.99E-09	1.35E-07
2094	257549.53	4085248.91	1.57E-07	2.10E-06	3.11E-07	3.11E-07	1.73E-07	3.05E-06	2.39E-08	3.20E-07	4.86E-08	4.86E-08	2.67E-08	4.68E-07	1.30E-08	1.73E-07	2.16E-08	2.16E-08	1.07E-08	2.40E-07
2095	257513.43	4085235.72	1.45E-07	1.94E-06	2.87E-07	2.87E-07	1.60E-07	2.82E-06	2.21E-08	2.96E-07	4.49E-08	4.49E-08	2.47E-08	4.32E-07	1.20E-08	1.60E-07	2.00E-08	2.00E-08	9.88E-09	2.22E-07
2096	257487.34	4085211.67	1.37E-07	1.84E-06	2.72E-07	2.72E-07	1.51E-07	2.67E-06	2.09E-08	2.80E-07	4.24E-08	4.24E-08	2.33E-08	4.09E-07	1.13E-08	1.51E-07	1.89E-08	1.89E-08	9.34E-09	2.10E-07
2097	257471.27	4085176.76	1.28E-07	1.71E-06	2.53E-07	2.53E-07	1.41E-07	2.49E-06	1.95E-08	2.61E-07	3.96E-08	3.96E-08	2.17E-08	3.81E-07	1.06E-08	1.41E-07	1.76E-08	1.76E-08	8.71E-09	1.96E-07
2098	257591.87	4085254.43	1.70E-07	2.28E-06	3.37E-07	3.37E-07	1.88E-07	3.31E-06	2.59E-08	3.47E-07	5.26E-08	5.26E-08	2.89E-08	5.07E-07	1.40E-08	1.88E-07	2.34E-08	2.34E-08	1.16E-08	2.60E-07
2099	257616.15	4085253.35	1.79E-07	2.40E-06	3.55E-07	3.55E-07	1.98E-07	3.48E-06	2.72E-08	3.65E-07	5.54E-08	5.54E-08	3.04E-08	5.34E-07	1.48E-08	1.98E-07	2.46E-08	2.46E-08	1.22E-08	2.74E-07
2100	257640.43	4085252.28	1.87E-07	2.49E-06	3.69E-07	3.69E-07	2.06E-07	3.63E-06	2.83E-08	3.80E-07	5.76E-08	5.76E-08	3.17E-08	5.55E-07	1.54E-08	2.06E-07	2.56E-08	2.56E-08	1.27E-08	2.85E-07
2101	257664.71	4085251.2	1.93E-07	2.57E-06	3.80E-07	3.80E-07	2.12E-07	3.74E-06	2.92E-08	3.92E-07	5.94E-08	5.94E-08	3.27E-08	5.72E-07	1.59E-08	2.12E-07	2.64E-08	2.64E-08	1.31E-08	2.94E-07
2102	257688.99	4085250.12	1.97E-07	2.63E-06	3.89E-07	3.89E-07	2.17E-07	3.83E-06	2.99E-08	4.01E-07	6.08E-08	6.08E-08	3.34E-08	5.86E-07	1.62E-08	2.17E-07	2.71E-08	2.71E-08	1.34E-08	3.01E-07
2103	257713.28	4085249.05	2.01E-07	2.68E-06	3.96E-07	3.96E-07	2.21E-07	3.89E-06	3.04E-08	4.08E-07	6.19E-08	6.19E-08	3.40E-08	5.96E-07	1.65E-08	2.21E-07	2.75E-08	2.75E-08	1.36E-08	3.06E-07
2104	257737.56	4085247.97	2.03E-07	2.72E-06	4.02E-07	4.02E-07	2.24E-07	3.95E-06	3.09E-08	4.14E-07	6.27E-08	6.27E-08	3.45E-08	6.05E-07	1.68E-08	2.24E-07	2.79E-08	2.79E-08	1.38E-08	3.10E-07
2105	257761.84	4085246.9	2.05E-07	2.74E-06	4.06E-07	4.06E-07	2.26E-07	3.99E-06	3.12E-08	4.18E-07	6.34E-08	6.34E-08	3.49E-08	6.11E-07	1.69E-08	2.26E-07	2.82E-08	2.82E-08	1.40E-08	3.14E-07
2106	257786.12	4085245.82	2.07E-07	2.77E-06	4.09E-07	4.09E-07	2.28E-07	4.02E-06	3.14E-08	4.21E-07	6.39E-08	6.39E-08	3.51E-08	6.16E-07	1.71E-08	2.28E-07	2.84E-08	2.84E-08	1.41E-08	3.16E-07
2107	257810.4	4085244.75	2.08E-07	2.78E-06	4.11E-07	4.11E-07	2.29E-07	4.04E-06	3.16E-08	4.24E-07	6.42E-08	6.42E-08	3.53E-08	6.19E-07	1.72E-08	2.29E-07	2.86E-08	2.86E-08	1.41E-08	3.18E-07
2108	257834.68	4085243.67	2.09E-07	2.79E-06	4.13E-07	4.13E-07	2.30E-07	4.05E-06	3.17E-08	4.25E-07	6.44E-08	6.44E-08	3.54E-08	6.21E-07	1.72E-08	2.30E-07	2.87E-08	2.87E-08	1.42E-08	3.19E-07
2109	257858.97	4085242.6	2.09E-07	2.79E-06	4.13E-07	4.13E-07	2.30E-07	4.06E-06	3.17E-08	4.26E-07	6.45E-08	6.45E-08	3.55E-08	6.22E-07	1.72E-08	2.30E-07	2.87E-08	2.87E-08	1.42E-08	3.19E-07
2110	257883.25	4085241.52	2.08E-07	2.77E-06	4.11E-07	4.11E-07	2.29E-07	4.03E-06	3.15E-08	4.23E-07	6.41E-08	6.41E-08	3.52E-08	6.18E-07	1.71E-08	2.29E-07	2.85E-08	2.85E-08	1.41E-08	3.17E-07
2111	257907.53	4085240.45	2.07E-07	2.76E-06	4.08E-07	4.08E-07	2.28E-07	4.01E-06	3.14E-08	4.20E-07	6.38E-08	6.38E-08	3.51E-08	6.14E-07	1.70E-08	2.27E-07	2.84E-08	2.84E-08	1.40E-08	3.15E-07
2112	257931.81	4085239.37	2.06E-07	2.75E-06	4.07E-07	4.07E-07	2.27E-07	3.99E-06	3.12E-08	4.19E-07	6.35E-08	6.35E-08	3.49E-08	6.12E-07	1.70E-08	2.27E-07	2.83E-08	2.83E-08	1.40E-08	3.14E-07
2113	257956.09	4085238.29	2.05E-07	2.73E-06	4.04E-07	4.04E-07	2.25E-07	3.97E-06	3.10E-08	4.16E-07	6.31E-08	6.31E-08	3.47E-08	6.08E-07	1.69E-08	2.25E-07	2.81E-08	2.81E-08	1.39E-08	3.12E-07
2114	257980.38	4085237.22	2.03E-07	2.71E-06	4.01E-07	4.01E-07	2.24E-07	3.94E-06	3.08E-08	4.13E-07	6.26E-08	6.26E-08	3.44E-08	6.03E-07	1.67E-08	2.23E-07	2.78E-08	2.78E-08	1.38E-08	3.10E-07
2115	258004.66	4085236.14	2.01E-07	2.68E-06	3.97E-07	3.97E-07	2.21E-07	3.90E-06	3.05E-08	4.08E-07	6.19E-08	6.19E-08	3.40E-08	5.97E-07	1.65E-08	2.21E-07	2.76E-08	2.76E-08	1.36E-08	3.06E-07
2116	258028.94	4085235.07	1.98E-07	2.64E-06	3.91E-07	3.91E-07	2.18E-07	3.84E-06	3.01E-08	4.03E-07	6.11E-08	6.11E-08	3.36E-08	5.89E-07	1.63E-08	2.18E-07	2.72E-08	2.72E-08	1.35E-08	3.02E-07
2117	258053.22	4085233.99	1.95E-07	2.60E-06	3.85E-07	3.85E-07	2.15E-07	3.78E-06	2.96E-08	3.96E-07	6.01E-08	6.01E-08	3.30E-08	5.79E-07	1.61E-08	2.14E-07	2.67E-08	2.67E-08	1.32E-08	2.97E-07
2118	258077.5	4085232.92	1.91E-07	2.55E-06	3.77E-07	3.77E-07	2.10E-07	3.70E-06	2.90E-08	3.88E-07	5.89E-08	5.89E-08	3.24E-08	5.67E-07	1.57E-08	2.10E-07	2.62E-08	2.62E-08	1.30E-08	2.91E-07
2119	258101.78	4085231.84	1.86E-07	2.49E-06	3.68E-07	3.68E-07	2.05E-07	3.61E-06	2.83E-08	3.79E-07	5.74E-08	5.74E-08	3.16E-08	5.53E-07	1.53E-08	2.05E-07	2.56E-08	2.56E-08	1.26E-08	2.84E-07
2120	258126.07	4085230.77	1.81E-07	2.41E-06	3.57E-07	3.57E-07	1.99E-07	3.51E-06	2.74E-08	3.68E-07	5.57E-08	5.57E-08	3.06E-08	5.37E-07	1.49E-08	1.99E-07	2.48E-08	2.48E-08	1.23E-08	2.76E-07

2121	258150.35	4085229.69	1.74E-07	2.33E-06	3.44E-07	3.44E-07	1.92E-07	3.38E-06	2.64E-08	3.54E-07	5.37E-08	5.37E-08	2.95E-08	5.18E-07	1.44E-08	1.92E-07	2.39E-08	2.39E-08	1.18E-08	2.66E-07
2122	258174.63	4085228.62	1.67E-07	2.22E-06	3.29E-07	3.29E-07	1.83E-07	3.23E-06	2.53E-08	3.39E-07	5.14E-08	5.14E-08	2.82E-08	4.95E-07	1.37E-08	1.83E-07	2.29E-08	2.29E-08	1.13E-08	2.54E-07
2123	258198.91	4085227.54	1.58E-07	2.11E-06	3.12E-07	3.12E-07	1.74E-07	3.06E-06	2.39E-08	3.21E-07	4.87E-08	4.87E-08	2.67E-08	4.69E-07	1.30E-08	1.74E-07	2.16E-08	2.16E-08	1.07E-08	2.41E-07
2124	258223.19	4085226.46	1.47E-07	1.97E-06	2.91E-07	2.91E-07	1.63E-07	2.86E-06	2.24E-08	3.00E-07	4.55E-08	4.55E-08	2.50E-08	4.39E-07	1.22E-08	1.62E-07	2.02E-08	2.02E-08	1.00E-08	2.25E-07
2125	258247.48	4085225.39	1.36E-07	1.82E-06	2.69E-07	2.69E-07	1.50E-07	2.64E-06	2.06E-08	2.77E-07	4.19E-08	4.19E-08	2.31E-08	4.04E-07	1.12E-08	1.50E-07	1.87E-08	1.87E-08	9.24E-09	2.07E-07
2126	258271.76	4085224.31	1.23E-07	1.65E-06	2.43E-07	2.43E-07	1.36E-07	2.39E-06	1.87E-08	2.51E-07	3.80E-08	3.80E-08	2.09E-08	3.66E-07	1.02E-08	1.36E-07	1.69E-08	1.69E-08	8.37E-09	1.88E-07
2127	258296.04	4085223.24	1.09E-07	1.46E-06	2.16E-07	2.16E-07	1.21E-07	2.13E-06	1.66E-08	2.23E-07	3.38E-08	3.38E-08	1.86E-08	3.26E-07	9.02E-09	1.21E-07	1.50E-08	1.50E-08	7.44E-09	1.67E-07
2128	258320.32	4085222.16	9.56E-08	1.28E-06	1.89E-07	1.89E-07	1.05E-07	1.86E-06	1.45E-08	1.95E-07	2.95E-08	2.95E-08	1.62E-08	2.84E-07	7.88E-09	1.05E-07	1.31E-08	1.31E-08	6.50E-09	1.46E-07
2129	258344.6	4085221.09	8.23E-08	1.10E-06	1.63E-07	1.63E-07	9.07E-08	1.60E-06	1.25E-08	1.67E-07	2.54E-08	2.54E-08	1.40E-08	2.45E-07	6.78E-09	9.06E-08	1.13E-08	1.13E-08	5.59E-09	1.26E-07
2130	257548.14	4085297.54	1.15E-07	1.54E-06	2.27E-07	2.27E-07	1.27E-07	2.23E-06	1.74E-08	2.34E-07	3.55E-08	3.55E-08	1.95E-08	3.42E-07	9.47E-09	1.27E-07	1.58E-08	1.58E-08	7.81E-09	1.75E-07
2131	257526.47	4085289.63	1.13E-07	1.51E-06	2.23E-07	2.23E-07	1.24E-07	2.19E-06	1.71E-08	2.30E-07	3.48E-08	3.48E-08	1.91E-08	3.36E-07	9.30E-09	1.24E-07	1.55E-08	1.55E-08	7.67E-09	1.72E-07
2132	257504.81	4085281.71	1.09E-07	1.46E-06	2.16E-07	2.16E-07	1.20E-07	2.12E-06	1.66E-08	2.22E-07	3.37E-08	3.37E-08	1.85E-08	3.25E-07	9.00E-09	1.20E-07	1.50E-08	1.50E-08	7.42E-09	1.67E-07
2133	257483.15	4085273.8	1.04E-07	1.38E-06	2.05E-07	2.05E-07	1.14E-07	2.01E-06	1.57E-08	2.11E-07	3.19E-08	3.19E-08	1.76E-08	3.08E-07	8.53E-09	1.14E-07	1.42E-08	1.42E-08	7.03E-09	1.58E-07
2134	257451.85	4085244.94	9.73E-08	1.30E-06	1.92E-07	1.92E-07	1.07E-07	1.89E-06	1.48E-08	1.98E-07	3.00E-08	3.00E-08	1.65E-08	2.89E-07	8.02E-09	1.07E-07	1.34E-08	1.34E-08	6.61E-09	1.49E-07
2135	257442.2	4085223.99	9.55E-08	1.28E-06	1.89E-07	1.89E-07	1.05E-07	1.85E-06	1.45E-08	1.94E-07	2.95E-08	2.95E-08	1.62E-08	2.84E-07	7.87E-09	1.05E-07	1.31E-08	1.31E-08	6.49E-09	1.46E-07
2136	257432.55	4085203.05	9.04E-08	1.21E-06	1.79E-07	1.79E-07	9.96E-08	1.75E-06	1.37E-08	1.84E-07	2.79E-08	2.79E-08	1.53E-08	2.69E-07	7.45E-09	9.95E-08	1.24E-08	1.24E-08	6.14E-09	1.38E-07
2137	257422.91	4085182.1	8.28E-08	1.11E-06	1.64E-07	1.64E-07	9.13E-08	1.61E-06	1.26E-08	1.69E-07	2.56E-08	2.56E-08	1.41E-08	2.46E-07	6.83E-09	9.12E-08	1.14E-08	1.14E-08	5.63E-09	1.26E-07
2138	257569.8	4085305.45	1.15E-07	1.54E-06	2.28E-07	2.28E-07	1.27E-07	2.24E-06	1.75E-08	2.35E-07	3.56E-08	3.56E-08	1.96E-08	3.43E-07	9.52E-09	1.27E-07	1.58E-08	1.58E-08	7.84E-09	1.76E-07
2139	257594.08	4085304.38	1.21E-07	1.62E-06	2.40E-07	2.40E-07	1.34E-07	2.36E-06	1.84E-08	2.47E-07	3.74E-08	3.74E-08	2.06E-08	3.61E-07	1.00E-08	1.34E-07	1.67E-08	1.67E-08	8.25E-09	1.85E-07
2140	257618.36	4085303.3	1.26E-07	1.69E-06	2.49E-07	2.49E-07	1.39E-07	2.45E-06	1.92E-08	2.57E-07	3.90E-08	3.90E-08	2.14E-08	3.75E-07	1.04E-08	1.39E-07	1.73E-08	1.73E-08	8.58E-09	1.93E-07
2141	257642.64	4085302.23	1.30E-07	1.74E-06	2.57E-07	2.57E-07	1.44E-07	2.53E-06	1.98E-08	2.65E-07	4.02E-08	4.02E-08	2.21E-08	3.87E-07	1.07E-08	1.43E-07	1.79E-08	1.79E-08	8.85E-09	1.99E-07
2142	257666.92	4085301.15	1.34E-07	1.79E-06	2.64E-07	2.64E-07	1.47E-07	2.59E-06	2.03E-08	2.72E-07	4.12E-08	4.12E-08	2.27E-08	3.97E-07	1.10E-08	1.47E-07	1.84E-08	1.84E-08	9.08E-09	2.04E-07
2143	257691.21	4085300.08	1.36E-07	1.82E-06	2.70E-07	2.70E-07	1.50E-07	2.65E-06	2.07E-08	2.78E-07	4.21E-08	4.21E-08	2.31E-08	4.06E-07	1.12E-08	1.50E-07	1.87E-08	1.87E-08	9.27E-09	2.08E-07
2144	257715.49	4085299	1.39E-07	1.85E-06	2.74E-07	2.74E-07	1.53E-07	2.69E-06	2.10E-08	2.82E-07	4.28E-08	4.28E-08	2.35E-08	4.12E-07	1.14E-08	1.53E-07	1.90E-08	1.90E-08	9.42E-09	2.12E-07
2145	257739.77	4085297.92	1.40E-07	1.87E-06	2.77E-07	2.77E-07	1.55E-07	2.72E-06	2.13E-08	2.85E-07	4.33E-08	4.33E-08	2.38E-08	4.17E-07	1.16E-08	1.54E-07	1.93E-08	1.93E-08	9.53E-09	2.14E-07
2146	257764.05	4085296.85	1.41E-07	1.89E-06	2.80E-07	2.80E-07	1.56E-07	2.75E-06	2.15E-08	2.88E-07	4.36E-08	4.36E-08	2.40E-08	4.21E-07	1.17E-08	1.56E-07	1.94E-08	1.94E-08	9.61E-09	2.16E-07
2147	257788.33	4085295.77	1.42E-07	1.90E-06	2.81E-07	2.81E-07	1.56E-07	2.76E-06	2.16E-08	2.89E-07	4.38E-08	4.38E-08	2.41E-08	4.22E-07	1.17E-08	1.56E-07	1.95E-08	1.95E-08	9.65E-09	2.17E-07
2148	257812.62	4085294.7	1.42E-07	1.89E-06	2.80E-07	2.80E-07	1.56E-07	2.75E-06	2.15E-08	2.89E-07	4.38E-08	4.38E-08	2.41E-08	4.22E-07	1.17E-08	1.56E-07	1.95E-08	1.95E-08	9.64E-09	2.16E-07
2149	257836.9	4085293.62	1.42E-07	1.89E-06	2.80E-07	2.80E-07	1.56E-07	2.75E-06	2.15E-08	2.89E-07	4.38E-08	4.38E-08	2.41E-08	4.22E-07	1.17E-08	1.56E-07	1.95E-08	1.95E-08	9.64E-09	2.16E-07
2150	257861.18	4085292.55	1.41E-07	1.89E-06	2.79E-07	2.79E-07	1.56E-07	2.74E-06	2.14E-08	2.87E-07	4.36E-08	4.36E-08	2.40E-08	4.20E-07	1.16E-08	1.56E-07	1.94E-08	1.94E-08	9.60E-09	2.16E-07
2151	257885.46	4085291.47	1.41E-07	1.88E-06	2.78E-07	2.78E-07	1.55E-07	2.73E-06	2.14E-08	2.86E-07	4.34E-08	4.34E-08	2.39E-08	4.18E-07	1.16E-08	1.55E-07	1.93E-08	1.93E-08	9.56E-09	2.15E-07
2152	257909.74	4085290.4	1.40E-07	1.87E-06	2.76E-07	2.76E-07	1.54E-07	2.71E-06	2.12E-08	2.85E-07	4.32E-08	4.32E-08	2.37E-08	4.16E-07	1.15E-08	1.54E-07	1.92E-08	1.92E-08	9.50E-09	2.13E-07
2153	257934.02	4085289.32	1.39E-07	1.85E-06	2.74E-07	2.74E-07	1.53E-07	2.69E-06	2.10E-08	2.82E-07	4.28E-08	4.28E-08	2.35E-08	4.12E-07	1.14E-08	1.53E-07	1.90E-08	1.90E-08	9.42E-09	2.12E-07
2154	257958.31	4085288.25	1.37E-07	1.83E-06	2.71E-07	2.71E-07	1.51E-07	2.66E-06	2.08E-08	2.79E-07	4.23E-08	4.23E-08	2.33E-08	4.08E-07	1.13E-08	1.51E-07	1.88E-08	1.88E-08	9.32E-09	2.09E-07
2155	257982.59	4085287.17	1.35E-07	1.81E-06	2.67E-07	2.67E-07	1.49E-07	2.63E-06	2.05E-08	2.75E-07	4.17E-08	4.17E-08	2.30E-08	4.02E-07	1.12E-08	1.49E-07	1.86E-08	1.86E-08	9.19E-09	2.06E-07
2156	258006.87	4085286.09	1.33E-07	1.78E-06	2.63E-07	2.63E-07	1.47E-07	2.58E-06	2.02E-08	2.71E-07	4.11E-08	4.11E-08	2.26E-08	3.96E-07	1.10E-08	1.47E-07	1.83E-08	1.83E-08	9.04E-09	2.03E-07
2157	258031.15	4085285.02	1.30E-07	1.74E-06	2.58E-07	2.58E-07	1.44E-07	2.53E-06	1.98E-08	2.65E-07	4.02E-08	4.02E-08	2.21E-08	3.88E-07	1.08E-08	1.44E-07	1.79E-08	1.79E-08	8.86E-09	1.99E-07
2158	258055.43	4085283.94	1.27E-07	1.70E-06	2.52E-07	2.52E-07	1.40E-07	2.47E-06	1.93E-08	2.59E-07	3.93E-08	3.93E-08	2.16E-08	3.79E-07	1.05E-08	1.40E-07	1.75E-08	1.75E-08	8.66E-09	1.94E-07
2159	258079.72	4085282.87	1.24E-07	1.66E-06	2.45E-07	2.45E-07	1.37E-07	2.41E-06	1.88E-08	2.52E-07	3.82E-08	3.82E-08	2.10E-08	3.68E-07	1.02E-08	1.36E-07	1.70E-08	1.70E-08	8.42E-09	1.89E-07
2160	258104	4085281.79	1.20E-07	1.60E-06	2.37E-07	2.37E-07	1.32E-07	2.33E-06	1.82E-08	2.44E-07	3.70E-08	3.70E-08	2.04E-08	3.57E-07	9.89E-09	1.32E-07	1.65E-08	1.65E-08	8.15E-09	1.83E-07
2161	258128.28	4085280.72	1.15E-07	1.54E-06	2.28E-07	2.28E-07	1.27E-07	2.24E-06	1.75E-08	2.35E-07	3.56E-08	3.56E-08	1.96E-08	3.43E-07	9.52E-09	1.27E-07	1.59E-08	1.59E-08	7.85E-09	1.76E-07
2162	258152.56	4085279.64	1.10E-07	1.48E-06	2.18E-07	2.18E-07	1.22E-07	2.14E-06	1.68E-08	2.25E-07	3.41E-08	3.41E-08	1.87E-08	3.28E-07	9.10E-09	1.22E-07	1.52E-08	1.52E-08	7.51E-09	1.69E-07
2163	258176.84	4085278.57	1.05E-07	1.40E-06	2.07E-07	2.07E-07	1.15E-07	2.03E-06	1.59E-08	2.13E-07	3.23E-08	3.23E-08	1.78E-08	3.12E-07	8.64E-09	1.15E-07	1.44E-08	1.44E-08	7.12E-09	1.60E-07
2164	258201.12	4085277.49	9.86E-08	1.32E-06	1.95E-07	1.95E-07	1.09E-07	1.91E-06	1.50E-08	2.01E-07	3.04E-08	3.04E-08	1.67E-08	2.93E-07	8.13E-09	1.09E-07	1.35E-08	1.35E-08	6.70E-09	1.50E-07
2165	258225.41	4085276.42	9.18E-08	1.23E-06	1.81E-07	1.81E-07	1.01E-07	1.78E-06	1.39E-08	1.87E-07	2.83E-08	2.83E-08	1.56E-08	2.73E-07	7.57E-09	1.01E-07	1.26E-08	1.26E-08	6.24E-09	1.40E-07
2166	258249.69	4085275.34	8.46E-08	1.13E-06	1.67E-07	1.67E-07	9.32E-08	1.64E-06	1.28E-08	1.72E-07	2.61E-08	2.61E-08	1.43E-08	2.51E-07	6.97E-09	9.31E-08	1.16E-08	1.16E-08	5.75E-09	1.29E-07
2167	258273.97	4085274.26	7.71E-08	1.03E-06	1.52E-07	1.52E-07	8.49E-08	1.50E-06	1.17E-08	1.57E-07	2.38E-08	2.38E-08	1.31E-08	2.29E-07	6.35E-09	8.49E-08	1.06E-08	1.06E-08	5.24E-09	1.18E-07
2168	258298.25	4085273.19	6.96E-08	9.30E-07	1.38E-07	1.38E-07	7.67E-08	1.35E-06	1.06E-08	1.42E-07	2.15E-08	2.15E-08	1.18E-08	2.07E-07	5.74E-09	7.66E-08	9.56E-09	9.56E-09	4.73E-09	1.06E-07
2169	258322.53	4085272.11	6.23E-08	8.32E-07	1.23E-07	1.23E-07	6.86E-08	1.21E-06	9.45E-09	1.27E-07	1.92E-08	1.92E-08	1.06E-08	1.85E-07	5.13E-09	6.86E-08	8.55E-09	8.55E-09	4.23E-09	9.50E-08
2170	258346.82	4085271.04	5.53E-08	7.38E-07	1.09E-07	1.09E-07	6.09E-08	1.07E-06	8.39E-09	1.12E-07	1.71E-08	1.71E-08	9.38E-09	1.64E-07	4.56E-09	6.09E-08	7.59E-09	7.59E-09	3.76E-09	8.43E-08
2171	258371.1	4085269.96	4.89E-08	6.53E-07	9.66E-08	9.66E-08	5.39E-08	9.49E-07	7.42E-09	9.95E-08	1.51E-08	1.51E-08	8.30E-09	1.45E-07	4.03E-09	5.38E-08	6.71E-09	6.71E-09	3.32E-09	7.46E-08
2172	257551.38	4085347.87	8.92E-08	1.19E-06	1.76E-07	1.76E-07	9.83E-08	1.73E-06	1.35E-08	1.82E-07	2.75E-08	2.75E-08	1.51E-08	2.65E-07	7.35E-09	9.82E-08	1.22E-08	1.22E-08	6.06E-09	1.36E-07
2173	257510.12	4085332.8	8.74E-08	1.17E-06	1.73E-07	1.73E-07	9.63E-08	1.70E-06	1.33E-08	1.78E-07	2.70E-08	2.70E-08	1.48E-08	2.60E-07	7.20E-09	9.62E-08	1.20E-08	1.20E-08	5.94E-09	1.33E-07
2174	257468.86	4085317.72	8.23E-08	1.10E-06	1.63E-07	1.63E-07	9.07E-08	1.60E-06	1.25E-08	1.67E-07	2.54E-08	2.54E-08	1.40E-08	2.45E-07	6.78E-09	9.06E-08	1.13E-08	1.13E-08	5.59E-09	1.26E-07
2175	257418.42	4085282.7	7.43E-08	9.92E-07	1.47E-07	1.47E-07	8.18E-08	1.44E-06	1.13E-08	1.51E-07	2.29E-08	2.29E-08	1.26E-08	2.21E-07	6.12E-09	8.18E-08	1.02E-08	1.02E-08	5.05E-09	1.13E-07
2176	257400.04	4085242.8	7.11E-08	9.50E-07	1.41E-07	1.41E-07	7.84E-08	1.38E-06	1.08E-08	1.45E-07	2.19E-08	2.19E-08	1.21E-08	2.11E-07	5.86E-09	7.83E-08	9.76E-09	9.76E-09	4.83E-09	1.09E-07
2177	257381.67	4085202.9	6.19E-08	8.27E-07	1.22E-07	1.22E-07	6.82E-08	1.20E-06	9.39E-09	1.26E-07	1.91E-08	1.91E-08	1.05E-08	1.84E-07	5.10E-09	6.81E-08	8.50E-09	8.50E-09	4.21E-09	9.44E-08
2178	257596.29	4085354.33	9.25E-08	1.24E-06	1.83E-07	1.83E-07	1.02E-07	1.80E-06	1.40E-08	1.88E-07	2.85E-08	2.85E-08	1.57E-08	2.75E-07	7.62E-09	1.02E-07	1.27E-08	1.27E-08	6.28E-09	1.41E-07
2179	257620.57	4085353.25	9.54E-08	1.27E-06	1.88E-07	1.88E-07	1.05E-07	1.85E-06	1.45E-08	1.94E-07	2.94E-08	2.94E-08	1.62E-08	2.84E-07	7.86E-09	1.05E-07	1.31E-08	1.31E-08	6.48E-09	1.46E-07
2180	257644.85	4085352.18	9.77E-08	1.31E-06	1.93E-07	1.93E-07	1.08E-07	1.90E-06	1.48E-08	1.99E-07	3.02E-08	3.02E-08	1.66E-08	2.91E-07	8.06E-09	1.08E-07	1.34E-08	1.34E-08	6.64E-09	1.49E-07
2181	257669.14	4085351.1	9.97E-08	1.33E-06	1.97E-07	1.97E-07	1.10E-07	1.94E-06	1.51E-08	2.03E-07	3.08E-08	3.08E-08	1.69E-08	2.96E-07	8.22E-09	1.10E-07	1.37E-08	1.37E-08	6.77E-09	1.52E-07
2182	257693.42	4085350.03	1.01E-07	1.35E-06	2.00E-07	2.00E-07	1.12E-07	1.97E-06	1.54E-08	2.06E-07	3.13E-08	3.13E-08	1.72E-08	3.01E-07	8.35E-09	1.12E-07	1.39E-08	1.39E-08	6.88E-09	1.55E-07
2183	257717.7	4085348.95	1.03E-07	1.37E-06	2.03E-07	2.03E-07	1.13E-07	1.99E-06	1.56E-08	2.09E-07	3.17E-08	3.17E-08	1.74E-08	3.05E-07	8.46E-09	1.13E-07	1.41E-08	1.41E-08	6.97E-09	1.57E-07
2184	257741.98	4085347.88	1.03E-07	1.38E-06	2.04E-07	2.04E-07	1.14E-07	2.00E-06	1.57E-08	2.10E-07	3.19E-08	3.19E-08	1.75E-08	3.07E-07	8.51E-09	1.14E-07	1.42E-08	1.42E-08	7.02E-09	1.58E-07
2185	257766.26	4085346.8	1.03E-07	1.38E-06	2.04E-07	2.04E-07	1.14E-07	2.01E-06	1.57E-08	2.10E-07	3.19E-08	3.19E-08	1.75E-08	3.07E-07	8.52E-09	1.14E-07	1.42E-08	1.42E-08	7.03E-09	1.58E-07
2186	257790.55	4085345.73	1.04E-07	1.38E-06	2.05E-07	2.05E-07	1.14E-07	2.01E-06	1.57E-08	2.11E-07	3.20E-08	3.20E-08	1.76E-08	3.08E-07	8.54E-09	1.14E-07	1.42E-08	1.42E-08	7.04E-09	1.58E-07
2187	257814.83	4085344.65	1.04E-07	1.38E-06	2.05E-07	2.05E-07	1.14E-07	2.01E-06	1.57E-08	2.11E-07	3.19E-08	3.19E-08	1.76E-08	3.08E-07	8.53E-09	1.14E-07	1.42E-08	1.42E-08	7.04E-09	1.58E-07
2188	257839.11	4085343.57	1.03E-07	1.38E-06	2.04E-07	2.04E-07	1.14E-07	2.00E-06	1.57E-08	2.10E-07	3.18E-08	3.18E-08	1.75E-08	3.07E-07	8.51E-09	1.14E-07	1.42E-08	1.42E-08	7.01E-09	1.58E-07
2189	257863.39	4085342.5	1.03E-07	1.37E-06	2.03E-07	2.03E-07	1.13E-07	1.99E-06	1.56E-08	2.09E-07	3.17E-08	3.17E-08	1.74E-08	3.05E-07	8.46E-09	1.13E-07	1.41E-08	1.41E-08	6.97E-09	1.57E-07
2190	257887.67	4085341.42	1.02E-07	1.36E-06	2.01E-07	2.01E-07	1.12E-07	1.98E-06	1.55E-08	2.07E-07	3.14E-08	3.14E-08	1.73E-08	3.03E-07	8.39E-09	1.12E-07	1.40E-08	1.40E-08	6.92E-09	1.55E-07
2191	257911.95	4085340.35	1.01E-07	1.35E-06	1.99E-07	1.99E-07	1.11E-07	1.96E-06	1.53E-08	2.05E-07	3.11E-08	3.11E-08	1.71E-08	3.00E-07	8.30E-09	1.11E-07	1.38E-08	1.38E-08	6.85E-09	1.54E-07
2192	257936.24	4085339.27	9.95E-08	1.33E-06	1.97E-07	1.97E-07	1.10E-07	1.93E-06	1.51E-08	2.02E-07	3.07E-08	3.07E-08	1.69E-08	2.96E-07	8.20E-09	1.09E-07	1.37E-08	1.37E-08	6.76E-09	1.52E-07
2193	257960.52	4085338.2	9.79E-08	1.31E-06	1.93E-07	1.93E-07	1.08E-07	1.90E-06	1.49E-08	1.99E-07	3.02E-08	3.02E-08	1.66E-08	2.91E-07	8.07E-09	1.08E-07	1.34E-08	1.34E-08	6.65E-09	1.49E-07
2194	257984.8	4085337.12	9.61E-08	1.28E-06	1.90E-07	1.90E-07	1.06E-07	1.87E-06	1.46E-08	1.96E-07	2.97E-08	2.97E-08	1.63E-08	2.86E-07	7.92E-09	1.06E-07	1.32E-08	1.32E-08	6.53E-09	1.47E-07
2195	258009.08	4085336.05	9.41E-08	1.26E-06	1.86E-07	1.86E-07	1.04E-07	1.83E-06	1.43E-08	1.91E-07	2.90E-08	2.90E-08	1.60E-08	2.80E-07	7.76E-09	1.04E-07	1.29E-08	1.29E-08	6.39E-09	1.44E-07
2196	258033.36	4085334.97	9.18E-08	1.23E-06	1.81E-07	1.81E-07	1.01E-07	1.78E-06	1.39E-08	1.87E-07	2.83E-08	2.83E-08	1.56E-08	2.73E-07	7.57E-09	1.01E-07	1.26E-08	1.26E-08	6.24E-09	1.40E-07
2197	258057.65	4085333.9	8.92E-08	1.19E-06	1.76E-07	1.76E-07	9.83E-08	1.73E-06	1.35E-08	1.82E-07	2.75E-08	2.75E-08	1.51E-08	2.65E-07	7.36E-09	9.83E-08	1.23E-08	1.23E-08	6.06E-09	1.36E-07
2198	258081.93	4085332.82	8.64E-08	1.15E-06	1.71E-07	1.71E-07	9.52E-08	1.68E-06	1.31E-08	1.76E-07	2.67E-08	2.67E-08	1.47E-08	2.57E-07	7.12E-09	9.51E-08	1.19E-08	1.19E-08	5.87E-09	1.32E-07
2199	258106.21	4085331.74	8.33E-08	1.11E-06	1.65E-07	1.65E-07	9.18E-08	1.62E-06	1.26E-08	1.69E-07	2.57E-08	2.57E-08	1.41E-08	2.48E-07	6.87E-09	9.17E-08	1.14E-08	1.14E-08	5.66E-09	1.27E-07
2200	258130.49	4085330.67	7.99E-08	1.07E-06	1.58E-07	1.58E-07	8.80E-08	1.55E-06	1.21E-08	1.62E-07	2.46E-08	2.46E-08	1.35E-08	2.37E-07	6.58E-09	8.79E-08	1.10E-08	1.10E-08	5.43E-09	1.22E-07
2201	258154.77	4085329.59	7.61E-08	1.02E-06	1.50E-07	1.50E-07	8.38E-08	1.48E-06	1.15E-08	1.55E-07	2.35E-08	2.35E-08	1.29E-08	2.26E-07	6.27E-09	8.38E-08	1.04E-08	1.04E-08	5.17E-09	1.16E-07
2202	258179.05	4085328.52	7.20E-08	9.61E-07	1.42E-07	1.42E-07	7.93E-08	1.40E-06	1.09E-08	1.46E-07	2.22E-08	2.22E-08	1.22E-08	2.14E-07	5.93E-09	7.92E-08	9.88E-09	9.88E-09	4.89E-09	1.10E-07
2203	258203.34	4085327.44	6.76E-08	9.03E-07	1.34E-07	1.34E-07	7.45E-08	1.31E-06	1.03E-08	1.38E-07	2.09E-08	2.09E-08	1.15E-08	2.01E-07	5.57E-09	7.44E-08	9.28E-09	9.28E-09	4.59E-09	1.03E-07
2204	258227.62	4085326.37	6.30E-08	8.41E-07	1.24E-07	1.24E-07	6.94E-08	1.22E-06	9.56E-09	1.28E-07	1.94E-08	1.94E-08	1.07E-08	1.87E-07	5.19E-09	6.93E-08	8.65E-09	8.65E-09	4.28E-09	9.61E-08
2205	258251.9	4085325.29	5.83E-08	7.79E-07	1.15E-07	1.15E-07	6.43E-08	1.13E-06	8.85E-09	1.19E-07	1.80E-08	1.80E-08	9.90E-09	1.73E-07	4.81E-09	6.42E-08	8.01E-09	8.01E-09	3.96E-09	8.90E-08
2206	258276.18	4085324.22	5.37E-08	7.18E-07	1.06E-07	1.06E-07	5.92E-08	1.04E-06	8.15E-09	1.09E-07	1.66E-08	1.66E-08	9.11E-09	1.60E-07	4.43E-09	5.92E-08	7.38E-09	7.38E-09	3.65E-09	8.20E-08
2207	258300.46	4085323.14	4.92E-08	6.57E-07	9.72E-08	9.72E-08	5.42E-08	9.55E-07	7.46E-09	1.00E-07	1.52E-08	1.52E-08	8.34E-09	1.46E-07	4.05E-09	5.42E-08	6.75E-09	6.75E-09	3.34E-09	7.51E-08
2208	258324.75	4085322.07	4.47E-08	5.97E-07	8.84E-08	8.84E-08	4.93E-08	8.68E-07	6.79E-09	9.10E-08	1.38E-08	1.38E-08	7.59E-09	1.33E-07	3.69E-09	4.92E-08	6.14E-09	6.14E-09	3.04E-09	6.83E-08
2209	258349.03	4085320.99	4.05E-08	5.41E-07	8.00E-08	8.00E-08	4.46E-08	7.86E-07	6.14E-09	8.24E-08	1.25E-08	1.25E-08	6.87E-09	1.20E-07	3.34E-09	4.46E-08	5.56E-09	5.56E-09	2.75E-09	6.18E-08
2210	258373.31	4085319.91	3.66E-08	4.88E-07	7.23E-08	7.23E-08	4.03E-08	7.10E-07	5.55E-09	7.44E-08	1.13E-08	1.13E-08	6.20E-09	1.09E-07	3.01E-09	4.03E-08	5.02E-09	5.02E-09	2.49E-09	5.58E-08
2211	257551.66	4085397.11	7.16E-08	9.57E-07	1.42E-07	1.42E-07	7.89E-08	1.39E-06	1.09E-08	1.46E-07	2.21E-08	2.21E-08	1.22E-08	2.13E-07	5.90E-09	7.89E-08	9.83E-09	9.83E-09	4.87E-09	1.09E-07
2212	257529.09	4085388.87	7.16E-08	9.57E-07	1.42E-07	1.42E-07	7.89E-08	1.39E-06	1.09E-08	1.46E-07	2.21E-08	2.21E-08	1.21E-08	2.13E-07	5.90E-09	7.89E-08	9.83E-09	9.83E-09	4.87E-09	1.09E-07
2213	257506.53	4085380.63	7.11E-08	9.49E-07	1.40E-07	1.40E-07	7.83E-08	1.38E-06	1.08E-08	1.45E-07	2.19E-08	2.19E-08	1.21E-08	2.11E-07	5.86E-09	7.83E-08	9.76E-09	9.76E-09	4.83E-09	1.08E-07
2214	257483.97	4085372.38	7.00E-08	9.35E-07	1.38E-07	1.38E-07	7.71E-08	1.36E-06	1.06E-08	1.42E-07	2.16E-08	2.16E-08	1.19E-08	2.08E-07	5.77E-09	7.71E-08	9.61E-09	9.61E-09	4.76E-09	1.07E-07
2215	257461.4	4085364.14	6.83E-08	9.12E-07	1.35E-07	1.35E-07	7.52E-08	1.33E-06	1.04E-08	1.39E-07	2.11E-08	2.11E-08	1.16E-08	2.03E-07	5.63E-09	7.52E-08	9.37E-09	9.37E-09	4.64E-09	1.04E-07
2216	257438.84	4085355.9	6.58E-08	8.79E-07	1.30E-07	1.30E-07	7.25E-08	1.28E-06	9.99E-09	1.34E-07	2.03E-08	2.03E-08	1.12E-08	1.96E-07	5.43E-09	7.25E-08	9.04E-09	9.04E-09	4.47E-09	1.00E-07
2217	257416.28	4085347.66	6.27E-08	8.38E-07	1.24E-07	1.24E-07	6.91E-08	1.22E-06	9.52E-09	1.28E-07	1.94E-08	1.94E-08	1.06E-08	1.87E-07	5.17E-09	6.91E-08	8.61E-09	8.61E-09	4.26E-09	9.57E-08
2218	257383.67	4085317.59	5.95E-08	7.95E-07	1.18E-07	1.18E-07	6.55E-08	1.15E-06	9.03E-09	1.21E-07	1.84E-08	1.84E-08	1.01E-08	1.77E-07	4.90E-09	6.55E-08	8.17E-09	8.17E-09	4.04E-09	9.08E-08
2219	257373.62	4085295.77	5.89E-08	7.86E-07	1.16E-07	1.16E-07	6.49E-08	1.14E-06	8.93E-09	1.20E-07	1.82E-08	1.82E-08	9.99E-09	1.75E-07	4.85E-09	6.48E-08	8.08E-09	8.08E-09	4.00E-09	8.98E-08
2220	257363.57	4085273.96	5.71E-08	7.63E-07	1.13E-07	1.13E-07	6.29E-08	1.11E-06	8.66E-09	1.16E-07	1.76E-08	1.76E-08	9.68E-09	1.70E-07	4.71E-09	6.29E-08	7.84E-09	7.84E-09	3.88E-09	8.71E-08
2221	257353.52	4085252.14	5.41E-08	7.22E-07	1.07E-07	1.07E-07	5.95E-08	1.05E-06	8.20E-09	1.10E-07	1.67E-08	1.67E-08	9.17E-09	1.61E-07	4.46E-09	5.95E-08	7.42E-09	7.42E-09	3.67E-09	8.25E-08
2222	257343.47	4085230.32	5.00E-08	6.67E-07	9.87E-08	9.87E-08	5.51E-08	9.70E-07	7.58E-09	1.02E-07	1.54E-08	1.54E-08	8.48E-09	1.49E-07	4.12E-09	5.50E-08	6.86E-09	6.86E-09	3.40E-09	7.62E-08
2223	257333.43	4085208.5	4.52E-08	6.04E-07	8.94E-08	8.94E-08	4.98E-08	8.78E-07	6.87E-09	9.20E-08	1.40E-08	1.40E-08	7.67E-09	1.35E-07	3.73E-09	4.98E-08	6.21E-09	6.21E-09	3.07E-09	6.90E-08
2224	257323.38	4085186.68	4.03E-08	5.38E-07	7.96E-08	7.96E-08	4.44E-08	7.82E-07	6.11E-09	8.20E-08	1.24E-08	1.24E-08	6.83E-09	1.20E-07	3.32E-09	4.43E-08	5.53E-09	5.53E-09	2.74E-09	6.15E-08
2225	257574.22	4085405.36	7.11E-08	9.50E-07	1.41E-07	1.41E-07	7.84E-08	1.38E-06	1.08E-08	1.45E-07	2.20E-08	2.20E-08	1.21E-08	2.12E-07	5.86E-09	7.83E-08	9.77E-09	9.77E-09	4.83E-09	1.09E-07
2226	257598.5	4085404.28	7.32E-08	9.78E-07	1.45E-07	1.45E-07	8.07E-08	1.42E-06	1.11E-08	1.49E-07	2.26E-08	2.26E-08	1.24E-08	2.18E-07	6.03E-09	8.06E-08	1.01E-08	1.01E-08	4.98E-09	1.12E-07
2227	257622.79	4085403.2	7.49E-08	1.00E-06	1.48E-07	1.48E-07	8.26E-08	1.45E-06	1.14E-08	1.52E-07	2.31E-08	2.31E-08	1.27E-08	2.23E-07	6.18E-09	8.25E-08	1.03E-08	1.03E-08	5.09E-09	1.14E-07
2228	257647.07	4085402.13	7.63E-08	1.02E-06	1.51E-07	1.51E-07	8.41E-08	1.48E-06	1.16E-08	1.55E-07	2.36E-08	2.36E-08	1.29E-08	2.27E-07	6.29E-09	8.40E-08	1.05E-08	1.05E-08	5.19E-09	1.16E-07
2229	257671.35	4085401.05	7.74E-08	1.03E-06	1.53E-07	1.53E-07	8.53E-08	1.50E-06	1.17E-08	1.58E-07	2.39E-08	2.39E-08	1.31E-08	2.30E-07	6.38E-09	8.52E-08	1.06E-08	1.06E-08	5.26E-09	1.18E-07
2230	257695.63	4085399.98	7.82E-08	1.04E-06	1.55E-07	1.55E-07	8.62E-08	1.52E-06	1.19E-08	1.59E-07	2.41E-08	2.41E-08	1.33E-08	2.33E-07	6.45E-09	8.61E-08	1.07E-08	1.07E-08	5.31E-09	1.19E-07
2231	257719.91	4085398.9	7.84E-08	1.05E-06	1.55E-07	1.55E-07	8.64E-08	1.52E-06	1.19E-08	1.60E-07	2.42E-08	2.42E-08	1.33E-08	2.33E-07	6.47E-09	8.64E-08	1.08E-08	1.08E-08	5.33E-09	1.20E-07
2232	257744.19	4085397.83	7.89E-08	1.05E-06	1.56E-07	1.56E-07	8.69E-08	1.53E-06	1.20E-08	1.60E-07	2.43E-08	2.43E-08	1.34E-08	2.34E-07	6.50E-09	8.68E-08	1.08E-08	1.08E-08	5.36E-09	1.20E-07
2233	257768.48	4085396.75	7.90E-08	1.06E-06	1.56E-07	1.56E-07	8.71E-08	1.53E-06	1.20E-08	1.61E-07	2.44E-08	2.44E-08	1.34E-08	2.35E-07	6.52E-09	8.70E-08	1.09E-08	1.09E-08	5.37E-09	1.21E-07
2234	257792.76	4085395.68	7.90E-08	1.06E-06	1.56E-07	1.56E-07	8.70E-08	1.53E-06	1.20E-08	1.61E-07	2.44E-08	2.44E-08	1.34E-08	2.35E-07	6.51E-09	8.70E-08	1.08E-08	1.08E-08	5.37E-09	1.21E-07
2235	257817.04	4085394.6	7.87E-08	1.05E-06	1.56E-07	1.56E-07	8.67E-08	1.53E-06	1.19E-08	1.60E-07	2.43E-08	2.43E-08	1.34E-08	2.34E-07	6.49E-09	8.67E-08	1.08E-08	1.08E-08	5.35E-09	1.20E-07
2236	257841.32	4085393.53	7.82E-08	1.04E-06	1.55E-07	1.55E-07	8.62E-08	1.52E-06	1.19E-08	1.59E-07	2.41E-08	2.41E-08	1.33E-08	2.33E-07	6.45E-09	8.61E-08	1.07E-08	1.07E-08	5.31E-09	1.19E-07
2237	257865.6	4085392.45	7.75E-08	1.04E-06	1.53E-07	1.53E-07	8.54E-08	1.50E-06	1.18E-08	1.58E-07	2.39E-08	2.39E-08	1.31E-08	2.30E-07	6.39E-09	8.53E-08	1.06E-08	1.06E-08	5.27E-09	1.18E-07
2238	257889.89	4085391.37	7.66E-08	1.02E-06	1.51E-07	1.51E-07	8.44E-08	1.49E-06	1.16E-08	1.56E-07	2.36E-08	2.36E-08	1.30E-08	2.28E-07	6.32E-09	8.44E-08	1.05E-08	1.05E-08	5.21E-09	1.17E-07

2239	257914.17	4085390.3	7.56E-08	1.01E-06	1.49E-07	1.49E-07	8.32E-08	1.47E-06	1.15E-08	1.54E-07	2.33E-08	2.33E-08	1.28E-08	2.25E-07	6.23E-09	8.32E-08	1.04E-08	1.04E-08	5.13E-09	1.15E-07
2240	257938.45	4085389.22	7.43E-08	9.93E-07	1.47E-07	1.47E-07	8.19E-08	1.44E-06	1.13E-08	1.51E-07	2.29E-08	2.29E-08	1.26E-08	2.21E-07	6.13E-09	8.18E-08	1.02E-08	1.02E-08	5.05E-09	1.13E-07
2241	257962.73	4085388.15	7.29E-08	9.74E-07	1.44E-07	1.44E-07	8.04E-08	1.42E-06	1.11E-08	1.48E-07	2.25E-08	2.25E-08	1.24E-08	2.17E-07	6.01E-09	8.03E-08	1.00E-08	1.00E-08	4.96E-09	1.11E-07
2242	257987.01	4085387.07	7.14E-08	9.53E-07	1.41E-07	1.41E-07	7.86E-08	1.39E-06	1.08E-08	1.45E-07	2.20E-08	2.20E-08	1.21E-08	2.12E-07	5.88E-09	7.86E-08	9.80E-09	9.80E-09	4.85E-09	1.09E-07
2243	258011.29	4085386	6.97E-08	9.30E-07	1.38E-07	1.38E-07	7.67E-08	1.35E-06	1.06E-08	1.42E-07	2.15E-08	2.15E-08	1.18E-08	2.07E-07	5.74E-09	7.67E-08	9.56E-09	9.56E-09	4.73E-09	1.06E-07
2244	258035.58	4085384.92	6.78E-08	9.05E-07	1.34E-07	1.34E-07	7.47E-08	1.32E-06	1.03E-08	1.38E-07	2.09E-08	2.09E-08	1.15E-08	2.01E-07	5.59E-09	7.46E-08	9.30E-09	9.30E-09	4.60E-09	1.03E-07
2245	258059.86	4085383.85	6.57E-08	8.77E-07	1.30E-07	1.30E-07	7.24E-08	1.28E-06	9.97E-09	1.34E-07	2.03E-08	2.03E-08	1.11E-08	1.95E-07	5.41E-09	7.23E-08	9.02E-09	9.02E-09	4.46E-09	1.00E-07
2246	258084.14	4085382.77	6.34E-08	8.47E-07	1.25E-07	1.25E-07	6.99E-08	1.23E-06	9.63E-09	1.29E-07	1.96E-08	1.96E-08	1.08E-08	1.89E-07	5.23E-09	6.98E-08	8.71E-09	8.71E-09	4.31E-09	9.68E-08
2247	258108.42	4085381.7	6.10E-08	8.14E-07	1.20E-07	1.20E-07	6.72E-08	1.18E-06	9.25E-09	1.24E-07	1.88E-08	1.88E-08	1.03E-08	1.81E-07	5.03E-09	6.71E-08	8.37E-09	8.37E-09	4.14E-09	9.30E-08
2248	258132.7	4085380.62	5.83E-08	7.79E-07	1.15E-07	1.15E-07	6.42E-08	1.13E-06	8.85E-09	1.19E-07	1.80E-08	1.80E-08	9.89E-09	1.73E-07	4.80E-09	6.42E-08	8.00E-09	8.00E-09	3.96E-09	8.89E-08
2249	258156.99	4085379.54	5.54E-08	7.40E-07	1.10E-07	1.10E-07	6.10E-08	1.08E-06	8.41E-09	1.13E-07	1.71E-08	1.71E-08	9.40E-09	1.65E-07	4.57E-09	6.10E-08	7.61E-09	7.61E-09	3.77E-09	8.46E-08
2250	258181.27	4085378.47	5.24E-08	7.00E-07	1.03E-07	1.03E-07	5.77E-08	1.02E-06	7.95E-09	1.07E-07	1.62E-08	1.62E-08	8.88E-09	1.56E-07	4.32E-09	5.77E-08	7.19E-09	7.19E-09	3.56E-09	7.99E-08
2251	258205.55	4085377.39	4.92E-08	6.58E-07	9.73E-08	9.73E-08	5.43E-08	9.56E-07	7.47E-09	1.00E-07	1.52E-08	1.52E-08	8.35E-09	1.46E-07	4.06E-09	5.42E-08	6.76E-09	6.76E-09	3.35E-09	7.52E-08
2252	258229.83	4085376.32	4.61E-08	6.16E-07	9.12E-08	9.12E-08	5.08E-08	8.95E-07	7.00E-09	9.39E-08	1.42E-08	1.42E-08	7.82E-09	1.37E-07	3.80E-09	5.08E-08	6.33E-09	6.33E-09	3.13E-09	7.04E-08
2253	258254.11	4085375.24	4.30E-08	5.75E-07	8.51E-08	8.51E-08	4.74E-08	8.36E-07	6.53E-09	8.76E-08	1.33E-08	1.33E-08	7.30E-09	1.28E-07	3.55E-09	4.74E-08	5.91E-09	5.91E-09	2.93E-09	6.57E-08
2254	258278.39	4085374.17	4.00E-08	5.34E-07	7.91E-08	7.91E-08	4.41E-08	7.77E-07	6.07E-09	8.14E-08	1.23E-08	1.23E-08	6.79E-09	1.19E-07	3.30E-09	4.40E-08	5.49E-09	5.49E-09	2.72E-09	6.11E-08
2255	258302.68	4085373.09	3.70E-08	4.94E-07	7.31E-08	7.31E-08	4.08E-08	7.18E-07	5.61E-09	7.53E-08	1.14E-08	1.14E-08	6.28E-09	1.10E-07	3.05E-09	4.07E-08	5.08E-09	5.08E-09	2.51E-09	5.65E-08
2256	258326.96	4085372.02	3.40E-08	4.55E-07	6.73E-08	6.73E-08	3.75E-08	6.61E-07	5.17E-09	6.93E-08	1.05E-08	1.05E-08	5.78E-09	1.01E-07	2.81E-09	3.75E-08	4.67E-09	4.67E-09	2.31E-09	5.20E-08
2257	258351.24	4085370.94	3.12E-08	4.17E-07	6.17E-08	6.17E-08	3.44E-08	6.06E-07	4.74E-09	6.36E-08	9.64E-09	9.64E-09	5.30E-09	9.29E-08	2.57E-09	3.44E-08	4.29E-09	4.29E-09	2.12E-09	4.77E-08
2258	258375.52	4085369.87	2.86E-08	3.82E-07	5.66E-08	5.66E-08	3.15E-08	5.56E-07	4.35E-09	5.83E-08	8.83E-09	8.83E-09	4.86E-09	8.51E-08	2.36E-09	3.15E-08	3.93E-09	3.93E-09	1.95E-09	4.37E-08
2259	257554.77	4085447.39	5.87E-08	7.85E-07	1.16E-07	1.16E-07	6.47E-08	1.14E-06	8.92E-09	1.20E-07	1.81E-08	1.81E-08	9.97E-09	1.75E-07	4.84E-09	6.47E-08	8.06E-09	8.06E-09	3.99E-09	8.96E-08
2260	257533.11	4085439.48	5.91E-08	7.89E-07	1.17E-07	1.17E-07	6.51E-08	1.15E-06	8.97E-09	1.20E-07	1.82E-08	1.82E-08	1.00E-08	1.76E-07	4.87E-09	6.51E-08	8.11E-09	8.11E-09	4.02E-09	9.02E-08
2261	257511.45	4085431.57	5.91E-08	7.90E-07	1.17E-07	1.17E-07	6.51E-08	1.15E-06	8.97E-09	1.20E-07	1.82E-08	1.82E-08	1.00E-08	1.76E-07	4.87E-09	6.51E-08	8.12E-09	8.12E-09	4.02E-09	9.02E-08
2262	257489.79	4085423.65	5.88E-08	7.86E-07	1.16E-07	1.16E-07	6.48E-08	1.14E-06	8.93E-09	1.20E-07	1.82E-08	1.82E-08	9.98E-09	1.75E-07	4.85E-09	6.48E-08	8.08E-09	8.08E-09	4.00E-09	8.98E-08
2263	257468.13	4085415.74	5.82E-08	7.78E-07	1.15E-07	1.15E-07	6.42E-08	1.13E-06	8.84E-09	1.18E-07	1.80E-08	1.80E-08	9.88E-09	1.73E-07	4.80E-09	6.41E-08	7.99E-09	7.99E-09	3.96E-09	8.89E-08
2264	257446.47	4085407.83	5.72E-08	7.64E-07	1.13E-07	1.13E-07	6.30E-08	1.11E-06	8.68E-09	1.16E-07	1.77E-08	1.77E-08	9.71E-09	1.70E-07	4.72E-09	6.30E-08	7.86E-09	7.86E-09	3.89E-09	8.73E-08
2265	257424.81	4085399.92	5.58E-08	7.45E-07	1.10E-07	1.10E-07	6.14E-08	1.08E-06	8.46E-09	1.13E-07	1.72E-08	1.72E-08	9.46E-09	1.66E-07	4.60E-09	6.14E-08	7.65E-09	7.65E-09	3.79E-09	8.51E-08
2266	257403.15	4085392	5.38E-08	7.19E-07	1.06E-07	1.06E-07	5.93E-08	1.05E-06	8.17E-09	1.10E-07	1.66E-08	1.66E-08	9.13E-09	1.60E-07	4.44E-09	5.93E-08	7.39E-09	7.39E-09	3.66E-09	8.22E-08
2267	257381.48	4085384.09	5.16E-08	6.89E-07	1.02E-07	1.02E-07	5.68E-08	1.00E-06	7.83E-09	1.05E-07	1.59E-08	1.59E-08	8.75E-09	1.53E-07	4.25E-09	5.68E-08	7.08E-09	7.08E-09	3.51E-09	7.87E-08
2268	257350.18	4085355.23	4.93E-08	6.58E-07	9.74E-08	9.74E-08	5.43E-08	9.57E-07	7.48E-09	1.00E-07	1.52E-08	1.52E-08	8.36E-09	1.47E-07	4.06E-09	5.43E-08	6.77E-09	6.77E-09	3.35E-09	7.52E-08
2269	257340.53	4085334.28	4.90E-08	6.54E-07	9.68E-08	9.68E-08	5.40E-08	9.51E-07	7.43E-09	9.97E-08	1.51E-08	1.51E-08	8.31E-09	1.46E-07	4.04E-09	5.39E-08	6.72E-09	6.72E-09	3.33E-09	7.47E-08
2270	257330.89	4085313.34	4.80E-08	6.41E-07	9.48E-08	9.48E-08	5.29E-08	9.32E-07	7.28E-09	9.77E-08	1.48E-08	1.48E-08	8.14E-09	1.43E-07	3.96E-09	5.28E-08	6.59E-09	6.59E-09	3.26E-09	7.32E-08
2271	257321.24	4085292.39	4.62E-08	6.17E-07	9.13E-08	9.13E-08	5.09E-08	8.97E-07	7.02E-09	9.41E-08	1.43E-08	1.43E-08	7.84E-09	1.37E-07	3.81E-09	5.09E-08	6.35E-09	6.35E-09	3.14E-09	7.05E-08
2272	257311.59	4085271.44	4.37E-08	5.83E-07	8.63E-08	8.63E-08	4.81E-08	8.48E-07	6.63E-09	8.89E-08	1.35E-08	1.35E-08	7.41E-09	1.30E-07	3.60E-09	4.81E-08	6.00E-09	6.00E-09	2.97E-09	6.67E-08
2273	257301.95	4085250.5	4.05E-08	5.41E-07	8.00E-08	8.00E-08	4.46E-08	7.86E-07	6.15E-09	8.24E-08	1.25E-08	1.25E-08	6.87E-09	1.20E-07	3.34E-09	4.46E-08	5.56E-09	5.56E-09	2.75E-09	6.18E-08
2274	257292.3	4085229.55	3.69E-08	4.93E-07	7.30E-08	7.30E-08	4.07E-08	7.17E-07	5.61E-09	7.52E-08	1.14E-08	1.14E-08	6.27E-09	1.10E-07	3.05E-09	4.07E-08	5.07E-09	5.07E-09	2.51E-09	5.64E-08
2275	257282.66	4085208.6	3.33E-08	4.44E-07	6.57E-08	6.57E-08	3.67E-08	6.46E-07	5.05E-09	6.77E-08	1.03E-08	1.03E-08	5.64E-09	9.89E-08	2.74E-09	3.66E-08	4.57E-09	4.57E-09	2.26E-09	5.08E-08
2276	257273.01	4085187.65	2.97E-08	3.97E-07	5.87E-08	5.87E-08	3.27E-08	5.77E-07	4.51E-09	6.04E-08	9.16E-09	9.16E-09	5.04E-09	8.83E-08	2.45E-09	3.27E-08	4.08E-09	4.08E-09	2.02E-09	4.53E-08
2277	257576.43	4085455.31	5.81E-08	7.76E-07	1.15E-07	1.15E-07	6.40E-08	1.13E-06	8.82E-09	1.18E-07	1.79E-08	1.79E-08	9.85E-09	1.73E-07	4.79E-09	6.40E-08	7.98E-09	7.98E-09	3.95E-09	8.86E-08
2278	257600.72	4085454.23	5.94E-08	7.93E-07	1.17E-07	1.17E-07	6.54E-08	1.15E-06	9.01E-09	1.21E-07	1.83E-08	1.83E-08	1.01E-08	1.77E-07	4.89E-09	6.54E-08	8.15E-09	8.15E-09	4.03E-09	9.06E-08
2279	257625	4085453.16	6.04E-08	8.07E-07	1.19E-07	1.19E-07	6.65E-08	1.17E-06	9.16E-09	1.23E-07	1.86E-08	1.86E-08	1.02E-08	1.80E-07	4.98E-09	6.65E-08	8.29E-09	8.29E-09	4.10E-09	9.21E-08
2280	257649.28	4085452.08	6.12E-08	8.17E-07	1.21E-07	1.21E-07	6.74E-08	1.19E-06	9.28E-09	1.24E-07	1.89E-08	1.89E-08	1.04E-08	1.82E-07	5.04E-09	6.74E-08	8.40E-09	8.40E-09	4.16E-09	9.33E-08
2281	257673.56	4085451	6.15E-08	8.21E-07	1.22E-07	1.22E-07	6.78E-08	1.19E-06	9.33E-09	1.25E-07	1.90E-08	1.90E-08	1.04E-08	1.83E-07	5.07E-09	6.77E-08	8.44E-09	8.44E-09	4.18E-09	9.38E-08
2282	257697.84	4085449.93	6.18E-08	8.25E-07	1.22E-07	1.22E-07	6.81E-08	1.20E-06	9.38E-09	1.26E-07	1.91E-08	1.91E-08	1.05E-08	1.84E-07	5.09E-09	6.80E-08	8.48E-09	8.48E-09	4.20E-09	9.43E-08
2283	257722.13	4085448.85	6.20E-08	8.28E-07	1.23E-07	1.23E-07	6.83E-08	1.20E-06	9.41E-09	1.26E-07	1.91E-08	1.91E-08	1.05E-08	1.84E-07	5.11E-09	6.83E-08	8.51E-09	8.51E-09	4.21E-09	9.46E-08
2284	257746.41	4085447.78	6.21E-08	8.30E-07	1.23E-07	1.23E-07	6.84E-08	1.21E-06	9.43E-09	1.26E-07	1.92E-08	1.92E-08	1.05E-08	1.85E-07	5.12E-09	6.84E-08	8.53E-09	8.53E-09	4.22E-09	9.48E-08
2285	257770.69	4085446.7	6.21E-08	8.29E-07	1.23E-07	1.23E-07	6.84E-08	1.21E-06	9.42E-09	1.26E-07	1.92E-08	1.92E-08	1.05E-08	1.85E-07	5.12E-09	6.84E-08	8.52E-09	8.52E-09	4.22E-09	9.47E-08
2286	257794.97	4085445.63	6.19E-08	8.27E-07	1.22E-07	1.22E-07	6.82E-08	1.20E-06	9.39E-09	1.26E-07	1.91E-08	1.91E-08	1.05E-08	1.84E-07	5.10E-09	6.81E-08	8.49E-09	8.49E-09	4.20E-09	9.44E-08
2287	257819.25	4085444.55	6.15E-08	8.22E-07	1.22E-07	1.22E-07	6.78E-08	1.19E-06	9.33E-09	1.25E-07	1.90E-08	1.90E-08	1.04E-08	1.83E-07	5.07E-09	6.77E-08	8.44E-09	8.44E-09	4.18E-09	9.39E-08
2288	257843.53	4085443.48	6.10E-08	8.14E-07	1.20E-07	1.20E-07	6.72E-08	1.18E-06	9.25E-09	1.24E-07	1.88E-08	1.88E-08	1.03E-08	1.81E-07	5.03E-09	6.71E-08	8.37E-09	8.37E-09	4.14E-09	9.30E-08
2289	257867.82	4085442.4	6.03E-08	8.05E-07	1.19E-07	1.19E-07	6.64E-08	1.17E-06	9.15E-09	1.23E-07	1.86E-08	1.86E-08	1.02E-08	1.79E-07	4.97E-09	6.64E-08	8.28E-09	8.28E-09	4.10E-09	9.20E-08
2290	257892.1	4085441.33	5.95E-08	7.94E-07	1.18E-07	1.18E-07	6.55E-08	1.15E-06	9.02E-09	1.21E-07	1.83E-08	1.83E-08	1.01E-08	1.77E-07	4.90E-09	6.55E-08	8.16E-09	8.16E-09	4.04E-09	9.07E-08
2291	257916.38	4085440.25	5.85E-08	7.82E-07	1.16E-07	1.16E-07	6.45E-08	1.14E-06	8.88E-09	1.19E-07	1.81E-08	1.81E-08	9.93E-09	1.74E-07	4.82E-09	6.44E-08	8.03E-09	8.03E-09	3.98E-09	8.93E-08
2292	257940.66	4085439.17	5.74E-08	7.67E-07	1.14E-07	1.14E-07	6.33E-08	1.12E-06	8.72E-09	1.17E-07	1.77E-08	1.77E-08	9.75E-09	1.71E-07	4.74E-09	6.33E-08	7.89E-09	7.89E-09	3.90E-09	8.77E-08
2293	257964.94	4085438.1	5.63E-08	7.51E-07	1.11E-07	1.11E-07	6.20E-08	1.09E-06	8.54E-09	1.14E-07	1.74E-08	1.74E-08	9.54E-09	1.67E-07	4.64E-09	6.19E-08	7.72E-09	7.72E-09	3.82E-09	8.59E-08
2294	257989.23	4085437.02	5.50E-08	7.34E-07	1.09E-07	1.09E-07	6.06E-08	1.07E-06	8.34E-09	1.12E-07	1.70E-08	1.70E-08	9.32E-09	1.63E-07	4.53E-09	6.05E-08	7.55E-09	7.55E-09	3.73E-09	8.39E-08
2295	258013.51	4085435.95	5.35E-08	7.15E-07	1.06E-07	1.06E-07	5.90E-08	1.04E-06	8.12E-09	1.09E-07	1.65E-08	1.65E-08	9.08E-09	1.59E-07	4.41E-09	5.89E-08	7.35E-09	7.35E-09	3.64E-09	8.17E-08
2296	258037.79	4085434.87	5.20E-08	6.94E-07	1.03E-07	1.03E-07	5.73E-08	1.01E-06	7.89E-09	1.06E-07	1.60E-08	1.60E-08	8.82E-09	1.55E-07	4.28E-09	5.72E-08	7.13E-09	7.13E-09	3.53E-09	7.93E-08
2297	258062.07	4085433.8	5.03E-08	6.71E-07	9.93E-08	9.93E-08	5.54E-08	9.76E-07	7.63E-09	1.02E-07	1.55E-08	1.55E-08	8.53E-09	1.49E-07	4.14E-09	5.54E-08	6.90E-09	6.90E-09	3.42E-09	7.67E-08
2298	258086.35	4085432.72	4.84E-08	6.47E-07	9.57E-08	9.57E-08	5.34E-08	9.40E-07	7.35E-09	9.85E-08	1.49E-08	1.49E-08	8.22E-09	1.44E-07	3.99E-09	5.33E-08	6.65E-09	6.65E-09	3.29E-09	7.39E-08
2299	258110.63	4085431.65	4.64E-08	6.20E-07	9.18E-08	9.18E-08	5.12E-08	9.01E-07	7.05E-09	9.45E-08	1.43E-08	1.43E-08	7.88E-09	1.38E-07	3.83E-09	5.11E-08	6.37E-09	6.37E-09	3.16E-09	7.09E-08
2300	258134.92	4085430.57	4.43E-08	5.92E-07	8.76E-08	8.76E-08	4.88E-08	8.60E-07	6.73E-09	9.02E-08	1.37E-08	1.37E-08	7.52E-09	1.32E-07	3.65E-09	4.88E-08	6.08E-09	6.08E-09	3.01E-09	6.76E-08
2301	258159.2	4085429.5	4.21E-08	5.62E-07	8.32E-08	8.32E-08	4.64E-08	8.17E-07	6.39E-09	8.57E-08	1.30E-08	1.30E-08	7.14E-09	1.25E-07	3.47E-09	4.64E-08	5.78E-09	5.78E-09	2.86E-09	6.43E-08
2302	258183.48	4085428.42	3.99E-08	5.32E-07	7.88E-08	7.88E-08	4.39E-08	7.74E-07	6.05E-09	8.11E-08	1.23E-08	1.23E-08	6.76E-09	1.19E-07	3.29E-09	4.39E-08	5.47E-09	5.47E-09	2.71E-09	6.08E-08
2303	258207.76	4085427.34	3.76E-08	5.03E-07	7.44E-08	7.44E-08	4.15E-08	7.31E-07	5.71E-09	7.66E-08	1.16E-08	1.16E-08	6.39E-09	1.12E-07	3.10E-09	4.14E-08	5.17E-09	5.17E-09	2.56E-09	5.74E-08
2304	258232.04	4085426.27	3.55E-08	4.74E-07	7.01E-08	7.01E-08	3.91E-08	6.88E-07	5.38E-09	7.22E-08	1.09E-08	1.09E-08	6.02E-09	1.05E-07	2.92E-09	3.90E-08	4.87E-09	4.87E-09	2.41E-09	5.41E-08
2305	258256.33	4085425.19	3.33E-08	4.45E-07	6.58E-08	6.58E-08	3.67E-08	6.47E-07	5.06E-09	6.78E-08	1.03E-08	1.03E-08	5.65E-09	9.90E-08	2.75E-09	3.67E-08	4.57E-09	4.57E-09	2.26E-09	5.08E-08
2306	258280.61	4085424.12	3.12E-08	4.16E-07	6.16E-08	6.16E-08	3.43E-08	6.05E-07	4.73E-09	6.34E-08	9.62E-09	9.62E-09	5.29E-09	9.27E-08	2.57E-09	3.43E-08	4.28E-09	4.28E-09	2.12E-09	4.76E-08
2307	258304.89	4085423.04	2.90E-08	3.88E-07	5.74E-08	5.74E-08	3.20E-08	5.64E-07	4.41E-09	5.91E-08	8.96E-09	8.96E-09	4.93E-09	8.64E-08	2.39E-09	3.20E-08	3.99E-09	3.99E-09	1.97E-09	4.43E-08
2308	258329.17	4085421.97	2.70E-08	3.60E-07	5.33E-08	5.33E-08	2.97E-08	5.24E-07	4.09E-09	5.49E-08	8.32E-09	8.32E-09	4.58E-09	8.02E-08	2.22E-09	2.97E-08	3.70E-09	3.70E-09	1.83E-09	4.12E-08
2309	258353.45	4085420.89	2.50E-08	3.34E-07	4.94E-08	4.94E-08	2.76E-08	4.85E-07	3.80E-09	5.09E-08	7.72E-09	7.72E-09	4.24E-09	7.44E-08	2.06E-09	2.75E-08	3.43E-09	3.43E-09	1.70E-09	3.82E-08
2310	258377.73	4085419.82	2.32E-08	3.09E-07	4.58E-08	4.58E-08	2.55E-08	4.50E-07	3.52E-09	4.71E-08	7.15E-09	7.15E-09	3.93E-09	6.89E-08	1.91E-09	2.55E-08	3.18E-09	3.18E-09	1.57E-09	3.54E-08
2311	257558.64	4085547.09	4.10E-08	5.48E-07	8.11E-08	8.11E-08	4.52E-08	7.97E-07	6.23E-09	8.35E-08	1.27E-08	1.27E-08	6.96E-09	1.22E-07	3.38E-09	4.52E-08	5.63E-09	5.63E-09	2.79E-09	6.26E-08
2312	257536.43	4085538.98	4.18E-08	5.58E-07	8.26E-08	8.26E-08	4.61E-08	8.11E-07	6.34E-09	8.51E-08	1.29E-08	1.29E-08	7.09E-09	1.24E-07	3.45E-09	4.60E-08	5.74E-09	5.74E-09	2.84E-09	6.38E-08
2313	257514.21	4085530.86	4.22E-08	5.64E-07	8.35E-08	8.35E-08	4.65E-08	8.20E-07	6.41E-09	8.60E-08	1.30E-08	1.30E-08	7.17E-09	1.26E-07	3.48E-09	4.65E-08	5.80E-09	5.80E-09	2.87E-09	6.45E-08
2314	257491.99	4085522.75	4.25E-08	5.68E-07	8.40E-08	8.40E-08	4.68E-08	8.25E-07	6.45E-09	8.65E-08	1.31E-08	1.31E-08	7.21E-09	1.26E-07	3.50E-09	4.68E-08	5.84E-09	5.84E-09	2.89E-09	6.49E-08
2315	257469.78	4085514.63	4.26E-08	5.70E-07	8.43E-08	8.43E-08	4.70E-08	8.28E-07	6.47E-09	8.68E-08	1.32E-08	1.32E-08	7.23E-09	1.27E-07	3.51E-09	4.69E-08	5.85E-09	5.85E-09	2.90E-09	6.51E-08
2316	257447.56	4085506.51	4.26E-08	5.69E-07	8.42E-08	8.42E-08	4.69E-08	8.27E-07	6.47E-09	8.67E-08	1.31E-08	1.31E-08	7.23E-09	1.27E-07	3.51E-09	4.69E-08	5.85E-09	5.85E-09	2.90E-09	6.50E-08
2317	257425.34	4085498.4	4.24E-08	5.66E-07	8.38E-08	8.38E-08	4.67E-08	8.23E-07	6.43E-09	8.62E-08	1.31E-08	1.31E-08	7.19E-09	1.26E-07	3.49E-09	4.67E-08	5.82E-09	5.82E-09	2.88E-09	6.47E-08
2318	257403.13	4085490.28	4.19E-08	5.60E-07	8.28E-08	8.28E-08	4.62E-08	8.14E-07	6.36E-09	8.53E-08	1.29E-08	1.29E-08	7.11E-09	1.25E-07	3.46E-09	4.62E-08	5.76E-09	5.76E-09	2.85E-09	6.40E-08
2319	257380.91	4085482.17	4.12E-08	5.50E-07	8.14E-08	8.14E-08	4.54E-08	7.99E-07	6.25E-09	8.38E-08	1.27E-08	1.27E-08	6.99E-09	1.22E-07	3.39E-09	4.53E-08	5.65E-09	5.65E-09	2.80E-09	6.28E-08
2320	257358.69	4085474.05	4.02E-08	5.37E-07	7.94E-08	7.94E-08	4.43E-08	7.80E-07	6.10E-09	8.18E-08	1.24E-08	1.24E-08	6.82E-09	1.19E-07	3.31E-09	4.42E-08	5.52E-09	5.52E-09	2.73E-09	6.13E-08
2321	257336.48	4085465.93	3.90E-08	5.21E-07	7.70E-08	7.70E-08	4.29E-08	7.57E-07	5.91E-09	7.93E-08	1.20E-08	1.20E-08	6.61E-09	1.16E-07	3.21E-09	4.29E-08	5.35E-09	5.35E-09	2.65E-09	5.95E-08
2322	257314.26	4085457.82	3.76E-08	5.02E-07	7.43E-08	7.43E-08	4.14E-08	7.30E-07	5.71E-09	7.65E-08	1.16E-08	1.16E-08	6.38E-09	1.12E-07	3.10E-09	4.14E-08	5.16E-09	5.16E-09	2.56E-09	5.74E-08
2323	257282.15	4085428.22	3.63E-08	4.85E-07	7.18E-08	7.18E-08	4.00E-08	7.05E-07	5.51E-09	7.39E-08	1.12E-08	1.12E-08	6.16E-09	1.08E-07	2.99E-09	4.00E-08	4.99E-09	4.99E-09	2.47E-09	5.54E-08
2324	257272.26	4085406.73	3.62E-08	4.84E-07	7.16E-08	7.16E-08	3.99E-08	7.03E-07	5.50E-09	7.37E-08	1.12E-08	1.12E-08	6.14E-09	1.08E-07	2.99E-09	3.99E-08	4.97E-09	4.97E-09	2.46E-09	5.53E-08
2325	257262.37	4085385.25	3.58E-08	4.78E-07	7.07E-08	7.07E-08	3.94E-08	6.94E-07	5.43E-09	7.28E-08	1.10E-08	1.10E-08	6.07E-09	1.06E-07	2.95E-09	3.94E-08	4.91E-09	4.91E-09	2.43E-09	5.46E-08
2326	257252.47	4085363.77	3.49E-08	4.66E-07	6.90E-08	6.90E-08	3.84E-08	6.77E-07	5.30E-09	7.10E-08	1.08E-08	1.08E-08	5.92E-09	1.04E-07	2.88E-09	3.84E-08	4.79E-09	4.79E-09	2.37E-09	5.33E-08
2327	257242.58	4085342.28	3.36E-08	4.48E-07	6.63E-08	6.63E-08	3.70E-08	6.52E-07	5.10E-09	6.83E-08	1.04E-08	1.04E-08	5.70E-09	9.98E-08	2.77E-09	3.70E-08	4.61E-09	4.61E-09	2.28E-09	5.12E-08
2328	257232.69	4085320.8	3.18E-08	4.25E-07	6.28E-08	6.28E-08	3.50E-08	6.17E-07	4.83E-09	6.47E-08	9.81E-09	9.81E-09	5.39E-09	9.45E-08	2.62E-09	3.50E-08	4.37E-09	4.37E-09	2.16E-09	4.85E-08
2329	257222.79	4085299.31	2.96E-08	3.96E-07	5.86E-08	5.86E-08	3.27E-08	5.75E-07	4.50E-09	6.03E-08	9.15E-09	9.15E-09	5.03E-09	8.82E-08	2.44E-09	3.26E-08	4.07E-09	4.07E-09	2.01E-09	4.52E-08
2330	257212.9	4085277.83	2.73E-08	3.64E-07	5.39E-08	5.39E-08	3.00E-08	5.29E-07	4.14E-09	5.55E-08	8.41E-09	8.41E-09	4.62E-09	8.10E-08	2.25E-09	3.00E-08	3.74E-09	3.74E-09	1.85E-09	4.16E-08
2331	257203.01	4085256.35	2.48E-08	3.31E-07	4.90E-08	4.90E-08	2.73E-08	4.81E-07	3.76E-09	5.04E-08	7.65E-09	7.65E-09	4.20E-09	7.37E-08	2.04E-09	2.73E-08	3.40E-09	3.40E-09	1.68E-09	3.78E-08
2332	257193.11	4085234.86	2.24E-08	2.99E-07	4.42E-08	4.42E-08	2.47E-08	4.34E-07	3.40E-09	4.55E-08	6.91E-09	6.91E-09	3.80E-09	6.66E-08	1.85E-09	2.46E-08	3.07E-09	3.07E-09	1.52E-09	3.42E-08
2333	257183.22	4085213.38	2.02E-08	2.69E-07	3.99E-08	3.99E-08	2.22E-08	3.92E-07	3.06E-09	4.10E-08	6.22E-09	6.22E-09	3.42E-09	6.00E-08	1.66E-09	2.22E-08	2.77E-09	2.77E-09	1.37E-09	3.08E-08
2334	257173.33	4085191.89	1.82E-08	2.43E-07	3.60E-08	3.60E-08	2.01E-08	3.54E-07	2.76E-09	3.71E-08	5.62E-09	5.62E-09	3.09E-09	5.41E-08	1.50E-09	2.01E-08	2.50E-09	2.50E-09	1.24E-09	2.78E-08
2335	257580.86	4085555.21	4.03E-08	5.39E-07	7.97E-08	7.97E-08	4.44E-08	7.83E-07	6.12E-09	8.21E-08	1.24E-08	1.24E-08	6.84E-09	1.20E-07	3.32E-09	4.44E-08	5.54E-09	5.54E-09	2.74E-09	6.15E-08
2336	257605.14	4085554.13	4.08E-08	5.45E-07	8.06E-08	8.06E-08	4.49E-08	7.92E-07	6.19E-09	8.30E-08	1.26E-08	1.26E-08	6.92E-09	1.21E-07	3.36E-09	4.49E-08	5.60E-09	5.60E-09	2.77E-09	6.22E-08
2337	257629.42	4085553.06	4.11E-08	5.49E-07	8.12E-08	8.12E-08	4.53E-08	7.98E-07	6.24E-09	8.36E-08	1.27E-08	1.27E-08	6.97E-09	1.22E-07	3.39E-09	4.53E-08	5.64E-09	5.64E-09	2.79E-09	6.27E-08
2338	257653.7	4085551.98	4.13E-08	5.52E-07	8.16E-08	8.16E-08	4.55E-08	8.02E-07	6.27E-09	8.40E-08	1.27E-08	1.27E-08	7.01E-09	1.23E-07	3.40E-09	4.55E-08	5.67E-09	5.67E-09	2.81E-09	6.30E-08
2339	257677.99	4085550.91	4.14E-08	5.53E-07	8.18E-08	8.18E-08	4.56E-08	8.03E-07	6.28E-09	8.42E-08	1.28E-08	1.28E-08	7.02E-09	1.23E-07	3.41E-09	4.56E-08	5.68E-09	5.68E-09	2.81E-09	6.31E-08
2340	257702.27	4085549.83	4.13E-08	5.52E-07	8.17E-08	8.17E-08	4.56E-08	8.03E-07	6.27E-09	8.41E-08	1.28E-08	1.28E-08	7.01E-09	1.23E-07	3.41E-09	4.55E-08	5.68E-09	5.68E-09	2.81E-09	6.31E-08
2341	257726.55	4085548.76	4.12E-08	5.51E-07	8.15E-08	8.15E-08	4.54E-08	8.00E-07	6.26E-09	8.39E-08	1.27E-08	1.27E-08	6.99E-09	1.23E-07	3.40E-09	4.54E-08	5.66E-09	5.66E-09	2.80E-09	6.29E-08
2342	257750.83	4085547.68	4.10E-08	5.48E-07	8.11E-08	8.11E-08	4.52E-08	7.97E-07	6.23E-09	8.35E-08	1.27E-08	1.27E-08	6.96E-09	1.22E-07	3.38E-09	4.52E-08	5.64E-09	5.64E-09	2.79E-09	6.26E-08
2343	257775.11	4085546.6	4.08E-08	5.45E-07	8.07E-08	8.07E-08	4.50E-08	7.92E-07	6.20E-09	8.31E-08	1.26E-08	1.26E-08	6.92E-09	1.21E-07	3.36E-09	4.49E-08	5.60E-09	5.60E-09	2.77E-09	6.23E-08
2344	257799.4	4085545.53	4.05E-08	5.41E-07	8.01E-08	8.01E-08	4.47E-08	7.87E-07	6.15E-09	8.25E-08	1.25E-08	1.25E-08	6.88E-09	1.21E-07	3.34E-09	4.46E-08	5.56E-09	5.56E-09	2.75E-09	6.19E-08
2345	257823.68	4085544.45	4.02E-08	5.37E-07	7.94E-08	7.94E-08	4.43E-08	7.80E-07	6.10E-09	8.18E-08	1.24E-08	1.24E-08	6.82E-09	1.19E-07	3.31E-09	4.42E-08	5.52E-09	5.52E-09	2.73E-09	6.13E-08
2346	257847.96	4085543.38	3.97E-08	5.31E-07	7.86E-08	7.86E-08	4.38E-08	7.72E-07	6.03E-09	8.09E-08	1.23E-08	1.23E-08	6.74E-09	1.18E-07	3.28E-09	4.38E-08	5.46E-09	5.46E-09	2.70E-09	6.07E-08
2347	257872.24	4085542.3	3.92E-08	5.24E-07	7.75E-08	7.75E-08	4.32E-08	7.62E-07	5.95E-09	7.98E-08	1.21E-08	1.21E-08	6.66E-09	1.17E-07	3.23E-09	4.32E-08	5.39E-09	5.39E-09	2.67E-09	5.99E-08
2348	257896.52	4085541.23	3.86E-08	5.16E-07	7.63E-08	7.63E-08	4.26E-08	7.50E-07	5.86E-09	7.86E-08	1.19E-08	1.19E-08	6.55E-09	1.15E-07	3.18E-09	4.25E-08	5.30E-09	5.30E-09	2.62E-09	5.89E-08
2349	257920.8	4085540.15	3.79E-08	5.07E-07	7.50E-08	7.50E-08	4.18E-08	7.37E-07	5.76E-09	7.72E-08	1.17E-08	1.17E-08	6.44E-09	1.13E-07	3.13E-09	4.18E-08	5.21E-09	5.21E-09	2.58E-09	5.79E-08
2350	257945.09	4085539.08	3.72E-08	4.97E-07	7.35E-08	7.35E-08	4.10E-08	7.22E-07	5.64E-09	7.56E-08	1.15E-08	1.15E-08	6.31E-09	1.11E-07	3.06E-09	4.09E-08	5.10E-09	5.10E-09	2.53E-09	5.67E-08
2351	257969.37	4085538	3.63E-08	4.85E-07	7.18E-08	7.18E-08	4.00E-08	7.05E-07	5.51E-09	7.39E-08	1.12E-08	1.12E-08	6.16E-09	1.08E-07	2.99E-09	4.00E-08	4.99E-09	4.99E-09	2.47E-09	5.54E-08
2352	257993.65	4085536.93	3.54E-08	4.73E-07	6.99E-08	6.99E-08	3.90E-08	6.87E-07	5.37E-09	7.20E-08	1.09E-08	1.09E-08	6.00E-09	1.05E-07	2.92E-09	3.90E-08	4.86E-09	4.86E-09	2.40E-09	5.40E-08
2353	258017.93	4085535.85	3.44E-08	4.59E-07	6.79E-08	6.79E-08	3.79E-08	6.67E-07	5.21E-09	6.99E-08	1.06E-08	1.06E-08	5.83E-09	1.02E-07	2.83E-09	3.78E-08	4.72E-09	4.72E-09	2.33E-09	5.24E-08
2354	258042.21	4085534.77	3.32E-08	4.44E-07	6.57E-08	6.57E-08	3.66E-08	6.45E-07	5.04E-09	6.76E-08	1.03E-08	1.03E-08	5.64E-09	9.88E-08	2.74E-09	3.66E-08	4.56E-09	4.56E-09	2.26E-09	5.07E-08
2355	258066.5	4085533.7	3.20E-08	4.28E-07	6.33E-08	6.33E-08	3.53E-08	6.22E-07	4.86E-09	6.52E-08	9.89E-09	9.89E-09	5.43E-09	9.53E-08	2.64E-09	3.53E-08	4.40E-09	4.40E-09	2.18E-09	4.89E-08
2356	258090.78	4085532.62	3.08E-08	4.11E-07	6.08E-08	6.08E-08	3.39E-08	5.97E-07	4.67E-09	6.26E-08	9.50E-09	9.50E-09	5.22E-09	9.15E-08	2.54E-09	3.39E-08	4.22E-09	4.22E-09	2.09E-09	4.70E-08

2357	258115.06	4085531.55	2.95E-08	3.94E-07	5.83E-08	5.83E-08	3.25E-08	5.72E-07	4.47E-09	6.00E-08	9.10E-09	9.10E-09	5.00E-09	8.76E-08	2.43E-09	3.25E-08	4.05E-09	4.05E-09	2.00E-09	4.50E-08
2358	258139.34	4085530.47	2.82E-08	3.76E-07	5.57E-08	5.57E-08	3.10E-08	5.47E-07	4.28E-09	5.73E-08	8.70E-09	8.70E-09	4.78E-09	8.38E-08	2.32E-09	3.10E-08	3.87E-09	3.87E-09	1.91E-09	4.30E-08
2359	258163.62	4085529.4	2.69E-08	3.59E-07	5.32E-08	5.32E-08	2.96E-08	5.22E-07	4.08E-09	5.48E-08	8.30E-09	8.30E-09	4.56E-09	8.00E-08	2.22E-09	2.96E-08	3.69E-09	3.69E-09	1.83E-09	4.11E-08
2360	258187.9	4085528.32	2.57E-08	3.43E-07	5.07E-08	5.07E-08	2.83E-08	4.98E-07	3.90E-09	5.22E-08	7.92E-09	7.92E-09	4.35E-09	7.63E-08	2.12E-09	2.83E-08	3.52E-09	3.52E-09	1.74E-09	3.92E-08
2361	258212.19	4085527.25	2.44E-08	3.27E-07	4.83E-08	4.83E-08	2.69E-08	4.75E-07	3.71E-09	4.98E-08	7.54E-09	7.54E-09	4.15E-09	7.27E-08	2.02E-09	2.69E-08	3.36E-09	3.36E-09	1.66E-09	3.73E-08
2362	258236.47	4085526.17	2.32E-08	3.10E-07	4.59E-08	4.59E-08	2.56E-08	4.51E-07	3.53E-09	4.73E-08	7.17E-09	7.17E-09	3.94E-09	6.91E-08	1.92E-09	2.56E-08	3.19E-09	3.19E-09	1.58E-09	3.55E-08
2363	258260.75	4085525.1	2.20E-08	2.94E-07	4.35E-08	4.35E-08	2.43E-08	4.27E-07	3.34E-09	4.48E-08	6.79E-09	6.79E-09	3.73E-09	6.55E-08	1.81E-09	2.42E-08	3.02E-09	3.02E-09	1.50E-09	3.36E-08
2364	258285.03	4085524.02	2.08E-08	2.78E-07	4.11E-08	4.11E-08	2.29E-08	4.04E-07	3.16E-09	4.23E-08	6.42E-09	6.42E-09	3.53E-09	6.18E-08	1.71E-09	2.29E-08	2.85E-09	2.85E-09	1.41E-09	3.17E-08
2365	258309.31	4085522.94	1.96E-08	2.62E-07	3.87E-08	3.87E-08	2.16E-08	3.81E-07	2.98E-09	3.99E-08	6.05E-09	6.05E-09	3.33E-09	5.83E-08	1.62E-09	2.16E-08	2.69E-09	2.69E-09	1.33E-09	2.99E-08
2366	258333.6	4085521.87	1.84E-08	2.46E-07	3.65E-08	3.65E-08	2.03E-08	3.58E-07	2.80E-09	3.75E-08	5.69E-09	5.69E-09	3.13E-09	5.48E-08	1.52E-09	2.03E-08	2.53E-09	2.53E-09	1.25E-09	2.81E-08
2367	258357.88	4085520.79	1.73E-08	2.32E-07	3.43E-08	3.43E-08	1.91E-08	3.37E-07	2.63E-09	3.53E-08	5.35E-09	5.35E-09	2.94E-09	5.16E-08	1.43E-09	1.91E-08	2.38E-09	2.38E-09	1.18E-09	2.65E-08
2368	258382.16	4085519.72	1.63E-08	2.18E-07	3.22E-08	3.22E-08	1.80E-08	3.16E-07	2.47E-09	3.32E-08	5.03E-09	5.03E-09	2.77E-09	4.85E-08	1.34E-09	1.79E-08	2.24E-09	2.24E-09	1.11E-09	2.49E-08
2369	257562.72	4085646.87	3.01E-08	4.02E-07	5.95E-08	5.95E-08	3.32E-08	5.84E-07	4.57E-09	6.13E-08	9.29E-09	9.29E-09	5.11E-09	8.95E-08	2.48E-09	3.32E-08	4.13E-09	4.13E-09	2.05E-09	4.59E-08
2370	257540.16	4085638.63	3.07E-08	4.10E-07	6.06E-08	6.06E-08	3.38E-08	5.95E-07	4.65E-09	6.24E-08	9.46E-09	9.46E-09	5.20E-09	9.12E-08	2.53E-09	3.38E-08	4.21E-09	4.21E-09	2.08E-09	4.68E-08
2371	257517.59	4085630.38	3.11E-08	4.16E-07	6.16E-08	6.16E-08	3.43E-08	6.05E-07	4.73E-09	6.34E-08	9.61E-09	9.61E-09	5.28E-09	9.26E-08	2.57E-09	3.43E-08	4.28E-09	4.28E-09	2.12E-09	4.75E-08
2372	257495.03	4085622.14	3.16E-08	4.22E-07	6.24E-08	6.24E-08	3.48E-08	6.13E-07	4.79E-09	6.42E-08	9.74E-09	9.74E-09	5.35E-09	9.38E-08	2.60E-09	3.48E-08	4.33E-09	4.33E-09	2.14E-09	4.82E-08
2373	257472.47	4085613.9	3.19E-08	4.26E-07	6.30E-08	6.30E-08	3.51E-08	6.19E-07	4.84E-09	6.49E-08	9.84E-09	9.84E-09	5.41E-09	9.48E-08	2.63E-09	3.51E-08	4.38E-09	4.38E-09	2.17E-09	4.87E-08
2374	257449.9	4085605.65	3.22E-08	4.29E-07	6.35E-08	6.35E-08	3.54E-08	6.24E-07	4.88E-09	6.54E-08	9.92E-09	9.92E-09	5.45E-09	9.56E-08	2.65E-09	3.54E-08	4.41E-09	4.41E-09	2.18E-09	4.91E-08
2375	257427.34	4085597.41	3.24E-08	4.33E-07	6.41E-08	6.41E-08	3.57E-08	6.30E-07	4.92E-09	6.60E-08	1.00E-08	1.00E-08	5.50E-09	9.64E-08	2.67E-09	3.57E-08	4.45E-09	4.45E-09	2.20E-09	4.95E-08
2376	257404.77	4085589.17	3.25E-08	4.35E-07	6.43E-08	6.43E-08	3.59E-08	6.32E-07	4.94E-09	6.62E-08	1.00E-08	1.00E-08	5.52E-09	9.68E-08	2.68E-09	3.58E-08	4.47E-09	4.47E-09	2.21E-09	4.97E-08
2377	257382.21	4085580.93	3.25E-08	4.34E-07	6.43E-08	6.43E-08	3.58E-08	6.31E-07	4.94E-09	6.62E-08	1.00E-08	1.00E-08	5.52E-09	9.67E-08	2.68E-09	3.58E-08	4.46E-09	4.46E-09	2.21E-09	4.96E-08
2378	257359.65	4085572.68	3.23E-08	4.32E-07	6.39E-08	6.39E-08	3.56E-08	6.28E-07	4.91E-09	6.58E-08	9.98E-09	9.98E-09	5.49E-09	9.62E-08	2.67E-09	3.56E-08	4.44E-09	4.44E-09	2.20E-09	4.93E-08
2379	257337.08	4085564.44	3.20E-08	4.27E-07	6.32E-08	6.32E-08	3.52E-08	6.21E-07	4.85E-09	6.51E-08	9.87E-09	9.87E-09	5.42E-09	9.51E-08	2.64E-09	3.52E-08	4.39E-09	4.39E-09	2.17E-09	4.88E-08
2380	257314.52	4085556.2	3.14E-08	4.20E-07	6.21E-08	6.21E-08	3.46E-08	6.10E-07	4.77E-09	6.40E-08	9.70E-09	9.70E-09	5.33E-09	9.35E-08	2.59E-09	3.46E-08	4.32E-09	4.32E-09	2.14E-09	4.80E-08
2381	257291.96	4085547.96	3.08E-08	4.11E-07	6.08E-08	6.08E-08	3.39E-08	5.98E-07	4.67E-09	6.26E-08	9.50E-09	9.50E-09	5.22E-09	9.15E-08	2.54E-09	3.39E-08	4.23E-09	4.23E-09	2.09E-09	4.70E-08
2382	257269.39	4085539.71	3.00E-08	4.01E-07	5.93E-08	5.93E-08	3.31E-08	5.83E-07	4.56E-09	6.11E-08	9.26E-09	9.26E-09	5.09E-09	8.93E-08	2.47E-09	3.31E-08	4.12E-09	4.12E-09	2.04E-09	4.58E-08
2383	257246.83	4085531.47	2.92E-08	3.90E-07	5.77E-08	5.77E-08	3.22E-08	5.67E-07	4.43E-09	5.94E-08	9.01E-09	9.01E-09	4.95E-09	8.68E-08	2.41E-09	3.21E-08	4.01E-09	4.01E-09	1.98E-09	4.46E-08
2384	257214.22	4085501.41	2.85E-08	3.81E-07	5.63E-08	5.63E-08	3.14E-08	5.53E-07	4.33E-09	5.80E-08	8.80E-09	8.80E-09	4.84E-09	8.48E-08	2.35E-09	3.14E-08	3.91E-09	3.91E-09	1.94E-09	4.35E-08
2385	257204.17	4085479.59	2.85E-08	3.81E-07	5.64E-08	5.64E-08	3.14E-08	5.54E-07	4.33E-09	5.81E-08	8.80E-09	8.80E-09	4.84E-09	8.48E-08	2.35E-09	3.14E-08	3.92E-09	3.92E-09	1.94E-09	4.35E-08
2386	257194.12	4085457.77	2.83E-08	3.79E-07	5.60E-08	5.60E-08	3.12E-08	5.50E-07	4.30E-09	5.77E-08	8.74E-09	8.74E-09	4.81E-09	8.43E-08	2.34E-09	3.12E-08	3.89E-09	3.89E-09	1.93E-09	4.32E-08
2387	257184.08	4085435.95	2.79E-08	3.73E-07	5.51E-08	5.51E-08	3.07E-08	5.41E-07	4.23E-09	5.68E-08	8.61E-09	8.61E-09	4.73E-09	8.29E-08	2.30E-09	3.07E-08	3.83E-09	3.83E-09	1.90E-09	4.26E-08
2388	257174.03	4085414.13	2.72E-08	3.63E-07	5.37E-08	5.37E-08	2.99E-08	5.27E-07	4.12E-09	5.53E-08	8.38E-09	8.38E-09	4.61E-09	8.07E-08	2.24E-09	2.99E-08	3.73E-09	3.73E-09	1.85E-09	4.14E-08
2389	257163.98	4085392.31	2.61E-08	3.49E-07	5.16E-08	5.16E-08	2.88E-08	5.07E-07	3.96E-09	5.32E-08	8.06E-09	8.06E-09	4.43E-09	7.77E-08	2.15E-09	2.88E-08	3.59E-09	3.59E-09	1.78E-09	3.99E-08
2390	257153.93	4085370.49	2.48E-08	3.31E-07	4.90E-08	4.90E-08	2.73E-08	4.81E-07	3.76E-09	5.05E-08	7.65E-09	7.65E-09	4.21E-09	7.37E-08	2.04E-09	2.73E-08	3.41E-09	3.41E-09	1.69E-09	3.78E-08
2391	257143.88	4085348.67	2.32E-08	3.10E-07	4.59E-08	4.59E-08	2.56E-08	4.51E-07	3.53E-09	4.73E-08	7.17E-09	7.17E-09	3.94E-09	6.91E-08	1.92E-09	2.56E-08	3.19E-09	3.19E-09	1.58E-09	3.55E-08
2392	257133.84	4085326.85	2.15E-08	2.87E-07	4.25E-08	4.25E-08	2.37E-08	4.18E-07	3.27E-09	4.38E-08	6.64E-09	6.64E-09	3.65E-09	6.40E-08	1.77E-09	2.37E-08	2.95E-09	2.95E-09	1.46E-09	3.28E-08
2393	257123.79	4085305.03	1.97E-08	2.64E-07	3.90E-08	3.90E-08	2.17E-08	3.83E-07	2.99E-09	4.01E-08	6.09E-09	6.09E-09	3.35E-09	5.87E-08	1.63E-09	2.17E-08	2.71E-09	2.71E-09	1.34E-09	3.01E-08
2394	257113.74	4085283.21	1.80E-08	2.40E-07	3.55E-08	3.55E-08	1.98E-08	3.49E-07	2.73E-09	3.66E-08	5.55E-09	5.55E-09	3.05E-09	5.35E-08	1.48E-09	1.98E-08	2.47E-09	2.47E-09	1.22E-09	2.74E-08
2395	257103.69	4085261.39	1.63E-08	2.18E-07	3.23E-08	3.23E-08	1.80E-08	3.17E-07	2.48E-09	3.33E-08	5.04E-09	5.04E-09	2.77E-09	4.86E-08	1.35E-09	1.80E-08	2.24E-09	2.24E-09	1.11E-09	2.49E-08
2396	257093.65	4085239.57	1.49E-08	1.99E-07	2.94E-08	2.94E-08	1.64E-08	2.89E-07	2.26E-09	3.03E-08	4.59E-09	4.59E-09	2.52E-09	4.42E-08	1.23E-09	1.64E-08	2.04E-09	2.04E-09	1.01E-09	2.27E-08
2397	257083.6	4085217.75	1.36E-08	1.82E-07	2.69E-08	2.69E-08	1.50E-08	2.64E-07	2.07E-09	2.77E-08	4.20E-09	4.20E-09	2.31E-09	4.05E-08	1.12E-09	1.50E-08	1.87E-09	1.87E-09	9.26E-10	2.08E-08
2398	257073.55	4085195.93	1.26E-08	1.68E-07	2.48E-08	2.48E-08	1.39E-08	2.44E-07	1.91E-09	2.56E-08	3.88E-09	3.88E-09	2.13E-09	3.74E-08	1.04E-09	1.38E-08	1.73E-09	1.73E-09	8.54E-10	1.92E-08
2399	257585.28	4085655.11	2.95E-08	3.94E-07	5.83E-08	5.83E-08	3.25E-08	5.73E-07	4.48E-09	6.00E-08	9.10E-09	9.10E-09	5.00E-09	8.77E-08	2.43E-09	3.25E-08	4.05E-09	4.05E-09	2.00E-09	4.50E-08
2400	257609.57	4085654.03	2.96E-08	3.96E-07	5.86E-08	5.86E-08	3.27E-08	5.75E-07	4.50E-09	6.03E-08	9.14E-09	9.14E-09	5.03E-09	8.81E-08	2.44E-09	3.26E-08	4.07E-09	4.07E-09	2.01E-09	4.52E-08
2401	257633.85	4085652.96	2.97E-08	3.97E-07	5.87E-08	5.87E-08	3.27E-08	5.77E-07	4.51E-09	6.05E-08	9.17E-09	9.17E-09	5.04E-09	8.83E-08	2.45E-09	3.27E-08	4.08E-09	4.08E-09	2.02E-09	4.53E-08
2402	257658.13	4085651.88	2.97E-08	3.97E-07	5.87E-08	5.87E-08	3.27E-08	5.77E-07	4.51E-09	6.05E-08	9.17E-09	9.17E-09	5.04E-09	8.84E-08	2.45E-09	3.27E-08	4.08E-09	4.08E-09	2.02E-09	4.53E-08
2403	257682.41	4085650.81	2.97E-08	3.96E-07	5.86E-08	5.86E-08	3.27E-08	5.76E-07	4.50E-09	6.03E-08	9.15E-09	9.15E-09	5.03E-09	8.82E-08	2.44E-09	3.26E-08	4.07E-09	4.07E-09	2.01E-09	4.52E-08
2404	257706.69	4085649.73	2.95E-08	3.94E-07	5.83E-08	5.83E-08	3.25E-08	5.73E-07	4.48E-09	6.01E-08	9.11E-09	9.11E-09	5.01E-09	8.78E-08	2.43E-09	3.25E-08	4.05E-09	4.05E-09	2.01E-09	4.51E-08
2405	257730.97	4085648.66	2.93E-08	3.92E-07	5.80E-08	5.80E-08	3.23E-08	5.70E-07	4.45E-09	5.97E-08	9.05E-09	9.05E-09	4.98E-09	8.72E-08	2.42E-09	3.23E-08	4.03E-09	4.03E-09	1.99E-09	4.48E-08
2406	257755.26	4085647.58	2.91E-08	3.89E-07	5.75E-08	5.75E-08	3.21E-08	5.65E-07	4.42E-09	5.92E-08	8.98E-09	8.98E-09	4.94E-09	8.66E-08	2.40E-09	3.21E-08	4.00E-09	4.00E-09	1.98E-09	4.44E-08
2407	257779.54	4085646.51	2.89E-08	3.85E-07	5.70E-08	5.70E-08	3.18E-08	5.60E-07	4.38E-09	5.87E-08	8.90E-09	8.90E-09	4.90E-09	8.58E-08	2.38E-09	3.18E-08	3.96E-09	3.96E-09	1.96E-09	4.40E-08
2408	257803.82	4085645.43	2.86E-08	3.82E-07	5.65E-08	5.65E-08	3.15E-08	5.55E-07	4.34E-09	5.81E-08	8.82E-09	8.82E-09	4.85E-09	8.50E-08	2.36E-09	3.15E-08	3.92E-09	3.92E-09	1.94E-09	4.36E-08
2409	257828.1	4085644.36	2.83E-08	3.78E-07	5.59E-08	5.59E-08	3.11E-08	5.49E-07	4.29E-09	5.75E-08	8.72E-09	8.72E-09	4.79E-09	8.40E-08	2.33E-09	3.11E-08	3.88E-09	3.88E-09	1.92E-09	4.31E-08
2410	257852.38	4085643.28	2.79E-08	3.73E-07	5.52E-08	5.52E-08	3.08E-08	5.42E-07	4.24E-09	5.68E-08	8.61E-09	8.61E-09	4.74E-09	8.30E-08	2.30E-09	3.07E-08	3.83E-09	3.83E-09	1.90E-09	4.26E-08
2411	257876.67	4085642.2	2.75E-08	3.67E-07	5.43E-08	5.43E-08	3.03E-08	5.33E-07	4.17E-09	5.59E-08	8.47E-09	8.47E-09	4.66E-09	8.17E-08	2.26E-09	3.02E-08	3.77E-09	3.77E-09	1.87E-09	4.19E-08
2412	257900.95	4085641.13	2.70E-08	3.60E-07	5.33E-08	5.33E-08	2.97E-08	5.24E-07	4.09E-09	5.49E-08	8.32E-09	8.32E-09	4.58E-09	8.02E-08	2.22E-09	2.97E-08	3.70E-09	3.70E-09	1.83E-09	4.12E-08
2413	257925.23	4085640.05	2.65E-08	3.53E-07	5.23E-08	5.23E-08	2.92E-08	5.14E-07	4.02E-09	5.39E-08	8.17E-09	8.17E-09	4.49E-09	7.87E-08	2.18E-09	2.91E-08	3.63E-09	3.63E-09	1.80E-09	4.04E-08
2414	257949.51	4085638.98	2.59E-08	3.46E-07	5.11E-08	5.11E-08	2.85E-08	5.02E-07	3.93E-09	5.27E-08	7.98E-09	7.98E-09	4.39E-09	7.69E-08	2.13E-09	2.85E-08	3.55E-09	3.55E-09	1.76E-09	3.95E-08
2415	257973.79	4085637.9	2.52E-08	3.37E-07	4.98E-08	4.98E-08	2.78E-08	4.90E-07	3.83E-09	5.13E-08	7.78E-09	7.78E-09	4.28E-09	7.50E-08	2.08E-09	2.78E-08	3.46E-09	3.46E-09	1.71E-09	3.85E-08
2416	257998.07	4085636.83	2.45E-08	3.28E-07	4.85E-08	4.85E-08	2.70E-08	4.76E-07	3.73E-09	4.99E-08	7.57E-09	7.57E-09	4.16E-09	7.30E-08	2.02E-09	2.70E-08	3.37E-09	3.37E-09	1.67E-09	3.75E-08
2417	258022.36	4085635.75	2.38E-08	3.18E-07	4.70E-08	4.70E-08	2.62E-08	4.62E-07	3.61E-09	4.84E-08	7.34E-09	7.34E-09	4.04E-09	7.07E-08	1.96E-09	2.62E-08	3.27E-09	3.27E-09	1.62E-09	3.63E-08
2418	258046.64	4085634.68	2.30E-08	3.07E-07	4.54E-08	4.54E-08	2.53E-08	4.46E-07	3.49E-09	4.68E-08	7.09E-09	7.09E-09	3.90E-09	6.83E-08	1.89E-09	2.53E-08	3.16E-09	3.16E-09	1.56E-09	3.51E-08
2419	258070.92	4085633.6	2.22E-08	2.96E-07	4.38E-08	4.38E-08	2.44E-08	4.30E-07	3.36E-09	4.51E-08	6.84E-09	6.84E-09	3.76E-09	6.59E-08	1.83E-09	2.44E-08	3.04E-09	3.04E-09	1.51E-09	3.38E-08
2420	258095.2	4085632.53	2.14E-08	2.85E-07	4.22E-08	4.22E-08	2.35E-08	4.14E-07	3.24E-09	4.35E-08	6.59E-09	6.59E-09	3.62E-09	6.35E-08	1.76E-09	2.35E-08	2.93E-09	2.93E-09	1.45E-09	3.26E-08
2421	258119.48	4085631.45	2.06E-08	2.75E-07	4.06E-08	4.06E-08	2.27E-08	3.99E-07	3.12E-09	4.18E-08	6.34E-09	6.34E-09	3.49E-09	6.11E-08	1.69E-09	2.26E-08	2.82E-09	2.82E-09	1.40E-09	3.14E-08
2422	258143.77	4085630.37	1.98E-08	2.64E-07	3.91E-08	3.91E-08	2.18E-08	3.84E-07	3.00E-09	4.03E-08	6.11E-09	6.11E-09	3.36E-09	5.88E-08	1.63E-09	2.18E-08	2.72E-09	2.72E-09	1.34E-09	3.02E-08
2423	258168.05	4085629.3	1.90E-08	2.54E-07	3.76E-08	3.76E-08	2.10E-08	3.69E-07	2.89E-09	3.87E-08	5.87E-09	5.87E-09	3.23E-09	5.66E-08	1.57E-09	2.10E-08	2.61E-09	2.61E-09	1.29E-09	2.90E-08
2424	258192.33	4085628.22	1.83E-08	2.44E-07	3.61E-08	3.61E-08	2.01E-08	3.54E-07	2.77E-09	3.71E-08	5.63E-09	5.63E-09	3.10E-09	5.43E-08	1.50E-09	2.01E-08	2.51E-09	2.51E-09	1.24E-09	2.79E-08
2425	258216.61	4085627.15	1.74E-08	2.32E-07	3.43E-08	3.43E-08	1.91E-08	3.37E-07	2.64E-09	3.53E-08	5.36E-09	5.36E-09	2.95E-09	5.17E-08	1.43E-09	1.91E-08	2.38E-09	2.38E-09	1.18E-09	2.65E-08
2426	258240.89	4085626.07	1.66E-08	2.22E-07	3.28E-08	3.28E-08	1.83E-08	3.22E-07	2.52E-09	3.38E-08	5.12E-09	5.12E-09	2.81E-09	4.93E-08	1.37E-09	1.83E-08	2.28E-09	2.28E-09	1.13E-09	2.53E-08
2427	258265.17	4085625	1.58E-08	2.11E-07	3.13E-08	3.13E-08	1.74E-08	3.07E-07	2.40E-09	3.22E-08	4.88E-09	4.88E-09	2.68E-09	4.70E-08	1.30E-09	1.74E-08	2.17E-09	2.17E-09	1.08E-09	2.41E-08
2428	258289.46	4085623.92	1.51E-08	2.01E-07	2.98E-08	2.98E-08	1.66E-08	2.92E-07	2.29E-09	3.06E-08	4.65E-09	4.65E-09	2.55E-09	4.48E-08	1.24E-09	1.66E-08	2.07E-09	2.07E-09	1.02E-09	2.30E-08
2429	258313.74	4085622.85	1.43E-08	1.91E-07	2.83E-08	2.83E-08	1.58E-08	2.78E-07	2.17E-09	2.91E-08	4.42E-09	4.42E-09	2.43E-09	4.26E-08	1.18E-09	1.58E-08	1.97E-09	1.97E-09	9.73E-10	2.18E-08
2430	258338.02	4085621.77	1.36E-08	1.82E-07	2.69E-08	2.69E-08	1.50E-08	2.64E-07	2.06E-09	2.77E-08	4.19E-09	4.19E-09	2.31E-09	4.04E-08	1.12E-09	1.50E-08	1.87E-09	1.87E-09	9.24E-10	2.07E-08
2431	258362.3	4085620.7	1.29E-08	1.72E-07	2.55E-08	2.55E-08	1.42E-08	2.50E-07	1.96E-09	2.63E-08	3.98E-09	3.98E-09	2.19E-09	3.84E-08	1.06E-09	1.42E-08	1.77E-09	1.77E-09	8.77E-10	1.97E-08
2432	258386.58	4085619.62	1.23E-08	1.64E-07	2.43E-08	2.43E-08	1.35E-08	2.38E-07	1.86E-09	2.50E-08	3.79E-09	3.79E-09	2.08E-09	3.65E-08	1.01E-09	1.35E-08	1.69E-09	1.69E-09	8.35E-10	1.87E-08
2433	257566.91	4085746.68	2.30E-08	3.07E-07	4.54E-08	4.54E-08	2.53E-08	4.46E-07	3.49E-09	4.68E-08	7.09E-09	7.09E-09	3.90E-09	6.83E-08	1.89E-09	2.53E-08	3.15E-09	3.15E-09	1.56E-09	3.51E-08
2434	257544.11	4085738.35	2.34E-08	3.13E-07	4.63E-08	4.63E-08	2.58E-08	4.55E-07	3.56E-09	4.77E-08	7.23E-09	7.23E-09	3.97E-09	6.97E-08	1.93E-09	2.58E-08	3.22E-09	3.22E-09	1.59E-09	3.58E-08
2435	257521.3	4085730.02	2.38E-08	3.19E-07	4.71E-08	4.71E-08	2.63E-08	4.63E-07	3.62E-09	4.85E-08	7.36E-09	7.36E-09	4.05E-09	7.09E-08	1.97E-09	2.63E-08	3.27E-09	3.27E-09	1.62E-09	3.64E-08
2436	257498.5	4085721.69	2.42E-08	3.24E-07	4.79E-08	4.79E-08	2.67E-08	4.71E-07	3.68E-09	4.93E-08	7.48E-09	7.48E-09	4.11E-09	7.21E-08	2.00E-09	2.67E-08	3.33E-09	3.33E-09	1.65E-09	3.70E-08
2437	257475.7	4085713.37	2.46E-08	3.28E-07	4.86E-08	4.86E-08	2.71E-08	4.77E-07	3.73E-09	5.00E-08	7.59E-09	7.59E-09	4.17E-09	7.31E-08	2.03E-09	2.71E-08	3.38E-09	3.38E-09	1.67E-09	3.75E-08
2438	257452.9	4085705.04	2.49E-08	3.33E-07	4.92E-08	4.92E-08	2.74E-08	4.83E-07	3.78E-09	5.07E-08	7.68E-09	7.68E-09	4.22E-09	7.40E-08	2.05E-09	2.74E-08	3.42E-09	3.42E-09	1.69E-09	3.80E-08
2439	257430.1	4085696.71	2.52E-08	3.36E-07	4.98E-08	4.98E-08	2.77E-08	4.89E-07	3.82E-09	5.12E-08	7.77E-09	7.77E-09	4.27E-09	7.49E-08	2.08E-09	2.77E-08	3.46E-09	3.46E-09	1.71E-09	3.84E-08
2440	257407.3	4085688.38	2.54E-08	3.39E-07	5.02E-08	5.02E-08	2.80E-08	4.93E-07	3.86E-09	5.17E-08	7.84E-09	7.84E-09	4.31E-09	7.56E-08	2.09E-09	2.80E-08	3.49E-09	3.49E-09	1.73E-09	3.88E-08
2441	257384.5	4085680.05	2.56E-08	3.42E-07	5.06E-08	5.06E-08	2.82E-08	4.97E-07	3.89E-09	5.21E-08	7.90E-09	7.90E-09	4.34E-09	7.61E-08	2.11E-09	2.82E-08	3.52E-09	3.52E-09	1.74E-09	3.91E-08
2442	257361.7	4085671.72	2.57E-08	3.44E-07	5.09E-08	5.09E-08	2.84E-08	5.00E-07	3.91E-09	5.24E-08	7.94E-09	7.94E-09	4.37E-09	7.65E-08	2.12E-09	2.83E-08	3.53E-09	3.53E-09	1.75E-09	3.93E-08
2443	257338.9	4085663.39	2.58E-08	3.45E-07	5.10E-08	5.10E-08	2.84E-08	5.01E-07	3.92E-09	5.25E-08	7.96E-09	7.96E-09	4.38E-09	7.67E-08	2.13E-09	2.84E-08	3.54E-09	3.54E-09	1.75E-09	3.94E-08
2444	257316.09	4085655.06	2.58E-08	3.45E-07	5.10E-08	5.10E-08	2.84E-08	5.01E-07	3.91E-09	5.25E-08	7.96E-09	7.96E-09	4.38E-09	7.67E-08	2.13E-09	2.84E-08	3.54E-09	3.54E-09	1.75E-09	3.94E-08
2445	257293.29	4085646.73	2.57E-08	3.43E-07	5.07E-08	5.07E-08	2.83E-08	4.98E-07	3.90E-09	5.22E-08	7.92E-09	7.92E-09	4.35E-09	7.63E-08	2.12E-09	2.83E-08	3.52E-09	3.52E-09	1.74E-09	3.92E-08
2446	257270.49	4085638.4	2.54E-08	3.39E-07	5.02E-08	5.02E-08	2.80E-08	4.93E-07	3.85E-09	5.17E-08	7.83E-09	7.83E-09	4.31E-09	7.55E-08	2.09E-09	2.80E-08	3.49E-09	3.49E-09	1.73E-09	3.87E-08
2447	257247.69	4085630.07	2.50E-08	3.34E-07	4.95E-08	4.95E-08	2.76E-08	4.86E-07	3.80E-09	5.09E-08	7.72E-09	7.72E-09	4.25E-09	7.44E-08	2.06E-09	2.76E-08	3.44E-09	3.44E-09	1.70E-09	3.82E-08
2448	257224.89	4085621.74	2.46E-08	3.29E-07	4.86E-08	4.86E-08	2.71E-08	4.77E-07	3.73E-09	5.01E-08	7.59E-09	7.59E-09	4.17E-09	7.31E-08	2.03E-09	2.71E-08	3.38E-09	3.38E-09	1.67E-09	3.75E-08
2449	257202.09	4085613.41	2.41E-08	3.22E-07	4.77E-08	4.77E-08	2.66E-08	4.68E-07	3.66E-09	4.91E-08	7.44E-09	7.44E-09	4.09E-09	7.17E-08	1.99E-09	2.66E-08	3.31E-09	3.31E-09	1.64E-09	3.68E-08
2450	257179.29	4085605.08	2.36E-08	3.16E-07	4.67E-08	4.67E-08	2.60E-08	4.59E-07	3.59E-09	4.81E-08	7.29E-09	7.29E-09	4.01E-09	7.03E-08	1.95E-09	2.60E-08	3.24E-09	3.24E-09	1.61E-09	3.61E-08
2451	257146.33	4085574.71	2.33E-08	3.11E-07	4.61E-08	4.61E-08	2.57E-08	4.52E-07	3.54E-09	4.74E-08	7.19E-09	7.19E-09	3.95E-09	6.93E-08	1.92E-09	2.57E-08	3.20E-09	3.20E-09	1.58E-09	3.56E-08
2452	257136.18	4085552.66	2.34E-08	3.13E-07	4.63E-08	4.63E-08	2.58E-08	4.54E-07	3.55E-09	4.76E-08	7.22E-09	7.22E-09	3.97E-09	6.96E-08	1.93E-09	2.58E-08	3.21E-09	3.21E-09	1.59E-09	3.57E-08
2453	257126.03	4085530.61	2.34E-08	3.12E-07	4.62E-08	4.62E-08	2.57E-08	4.54E-07	3.55E-09	4.75E-08	7.21E-09	7.21E-09	3.96E-09	6.95E-08	1.93E-09	2.57E-08	3.21E-09	3.21E-09	1.59E-09	3.57E-08
2454	257115.87	4085508.56	2.32E-08	3.09E-07	4.58E-08	4.58E-08	2.55E-08	4.49E-07	3.51E-09	4.71E-08	7.14E-09	7.14E-09	3.93E-09	6.88E-08	1.91E-09	2.55E-08	3.18E-09	3.18E-09	1.57E-09	3.53E-08
2455	257105.72	4085486.51	2.27E-08	3.04E-07	4.50E-08	4.50E-08	2.51E-08	4.42E-07	3.45E-09	4.63E-08	7.02E-09	7.02E-09	3.86E-09	6.76E-08	1.88E-09	2.50E-08	3.12E-09	3.12E-09	1.55E-09	3.47E-08
2456	257095.57	4085464.46	2.21E-08	2.96E-07	4.37E-08	4.37E-08	2.44E-08	4.30E-07	3.36E-09	4.50E-08	6.83E-09	6.83E-09	3.75E-09	6.58E-08	1.82E-09	2.44E-08	3.04E-09	3.04E-09	1.50E-09	3.38E-08
2457	257085.41	4085442.41	2.13E-08	2.85E-07	4.21E-08	4.21E-08	2.35E-08	4.14E-07	3.23E-09	4.34E-08	6.57E-09	6.57E-09	3.61E-09	6.33E-08	1.76E-09	2.35E-08	2.92E-09	2.92E-09	1.45E-09	3.25E-08
2458	257075.26	4085420.36	2.03E-08	2.71E-07	4.01E-08	4.01E-08	2.23E-08	3.94E-07	3.08E-09	4.13E-08	6.26E-09	6.26E-09	3.44E-09	6.03E-08	1.67E-09	2.23E-08	2.78E-09	2.78E-09	1.38E-09	3.09E-08
2459	257065.11	4085398.31	1.91E-08	2.55E-07	3.77E-08	3.77E-08	2.10E-08	3.70E-07	2.90E-09	3.88E-08	5.89E-09	5.89E-09	3.24E-09	5.68E-08	1.57E-09	2.10E-08	2.62E-09	2.62E-09	1.30E-09	2.91E-08
2460	257054.95	4085376.26	1.78E-08	2.37E-07	3.51E-08	3.51E-08	1.96E-08	3.45E-07	2.70E-09	3.62E-08	5.49E-09	5.49E-09	3.02E-09	5.29E-08	1.47E-09	1.96E-08	2.44E-09	2.44E-09	1.21E-09	2.71E-08
2461	257044.8	4085354.21	1.64E-08	2.19E-07	3.24E-08	3.24E-08	1.81E-08	3.19E-07	2.49E-09	3.34E-08	5.07E-09	5.07E-09	2.78E-09	4.88E-08	1.35E-09	1.81E-08	2.25E-09	2.25E-09	1.12E-09	2.51E-08
2462	257034.65	4085332.16	1.51E-08	2.01E-07	2.98E-08	2.98E-08	1.66E-08	2.93E-07	2.29E-09	3.07E-08	4.65E-09	4.65E-09	2.56E-09	4.48E-08	1.24E-09	1.66E-08	2.07E-09	2.07E-09	1.02E-09	2.30E-08
2463	257024.49	4085310.11	1.38E-08	1.84E-07	2.73E-08	2.73E-08	1.52E-08	2.68E-07	2.09E-09	2.81E-08	4.26E-09	4.26E-09	2.34E-09	4.10E-08	1.14E-09	1.52E-08	1.89E-09	1.89E-09	9.38E-10	2.11E-08
2464	257014.34	4085288.06	1.26E-08	1.69E-07	2.50E-08	2.50E-08	1.39E-08	2.45E-07	1.92E-09	2.57E-08	3.90E-09	3.90E-09	2.15E-09	3.76E-08	1.04E-09	1.39E-08	1.74E-09	1.74E-09	8.59E-10	1.93E-08
2465	257004.19	4085266.01	1.16E-08	1.55E-07	2.30E-08	2.30E-08	1.28E-08	2.26E-07	1.77E-09	2.37E-08	3.59E-09	3.59E-09	1.97E-09	3.46E-08	9.59E-10	1.28E-08	1.60E-09	1.60E-09	7.91E-10	1.78E-08
2466	256994.03	4085243.96	1.08E-08	1.44E-07	2.13E-08	2.13E-08	1.19E-08	2.09E-07	1.64E-09	2.19E-08	3.32E-09	3.32E-09	1.83E-09	3.20E-08	8.88E-10	1.19E-08	1.48E-09	1.48E-09	7.32E-10	1.64E-08
2467	256983.88	4085221.91	1.01E-08	1.34E-07	1.99E-08	1.99E-08	1.11E-08	1.95E-07	1.53E-09	2.05E-08	3.10E-09	3.10E-09	1.71E-09	2.99E-08	8.29E-10	1.11E-08	1.38E-09	1.38E-09	6.84E-10	1.54E-08
2468	256973.72	4085199.87	9.48E-09	1.27E-07	1.87E-08	1.87E-08	1.04E-08	1.84E-07	1.44E-09	1.93E-08	2.93E-09	2.93E-09	1.61E-09	2.82E-08	7.82E-10	1.04E-08	1.30E-09	1.30E-09	6.44E-10	1.45E-08
2469	257589.71	4085755.01	2.25E-08	3.01E-07	4.45E-08	4.45E-08	2.48E-08	4.37E-07	3.42E-09	4.58E-08	6.94E-09	6.94E-09	3.82E-09	6.69E-08	1.86E-09	2.48E-08	3.09E-09	3.09E-09	1.53E-09	3.43E-08
2470	257613.99	4085753.94	2.25E-08	3.01E-07	4.45E-08	4.45E-08	2.48E-08	4.37E-07	3.42E-09	4.59E-08	6.95E-09	6.95E-09	3.82E-09	6.70E-08	1.86E-09	2.48E-08	3.09E-09	3.09E-09	1.53E-09	3.44E-08
2471	257638.27	4085752.86	2.25E-08	3.01E-07	4.45E-08	4.45E-08	2.48E-08	4.37E-07	3.42E-09	4.58E-08	6.95E-09	6.95E-09	3.82E-09	6.70E-08	1.86E-09	2.48E-08	3.09E-09	3.09E-09	1.53E-09	3.44E-08
2472	257662.55	4085751.79	2.25E-08	3.00E-07	4.44E-08	4.44E-08	2.48E-08	4.36E-07	3.41E-09	4.57E-08	6.94E-09	6.94E-09	3.81E-09	6.68E-08	1.85E-09	2.47E-08	3.09E-09	3.09E-09	1.53E-09	3.43E-08
2473	257686.84	4085750.71	2.24E-08	2.99E-07	4.42E-08	4.42E-08	2.47E-08	4.35E-07	3.40E-09	4.56E-08	6.91E-09	6.91E-09	3.80E-09	6.66E-08	1.85E-09	2.46E-08	3.07E-09	3.07E-09	1.52E-09	3.42E-08
2474	257711.12	4085749.64	2.22E-08	2.97E-07	4.40E-08	4.40E-08	2.45E-08	4.32E-07	3.38E-09	4.53E-08	6.87E-09	6.87E-09	3.77E-09	6.62E-08	1.83E-09	2.45E-08	3.05E-09	3.05E-09	1.51E-09	3.40E-08

2475	257735.4	4085748.56	2.21E-08	2.95E-07	4.36E-08	4.36E-08	2.43E-08	4.28E-07	3.35E-09	4.49E-08	6.81E-09	6.81E-09	3.74E-09	6.56E-08	1.82E-09	2.43E-08	3.03E-09	3.03E-09	1.50E-09	3.37E-08
2476	257759.68	4085747.48	2.18E-08	2.92E-07	4.32E-08	4.32E-08	2.41E-08	4.24E-07	3.32E-09	4.45E-08	6.74E-09	6.74E-09	3.71E-09	6.50E-08	1.80E-09	2.41E-08	3.00E-09	3.00E-09	1.48E-09	3.33E-08
2477	257783.96	4085746.41	2.16E-08	2.88E-07	4.27E-08	4.27E-08	2.38E-08	4.19E-07	3.28E-09	4.39E-08	6.66E-09	6.66E-09	3.66E-09	6.42E-08	1.78E-09	2.38E-08	2.96E-09	2.96E-09	1.47E-09	3.29E-08
2478	257808.24	4085745.33	2.13E-08	2.84E-07	4.20E-08	4.20E-08	2.34E-08	4.13E-07	3.23E-09	4.33E-08	6.56E-09	6.56E-09	3.61E-09	6.32E-08	1.75E-09	2.34E-08	2.92E-09	2.92E-09	1.45E-09	3.25E-08
2479	257832.53	4085744.26	2.09E-08	2.79E-07	4.13E-08	4.13E-08	2.30E-08	4.05E-07	3.17E-09	4.25E-08	6.44E-09	6.44E-09	3.54E-09	6.21E-08	1.72E-09	2.30E-08	2.87E-09	2.87E-09	1.42E-09	3.19E-08
2480	257856.81	4085743.18	2.05E-08	2.74E-07	4.06E-08	4.06E-08	2.26E-08	3.98E-07	3.12E-09	4.18E-08	6.33E-09	6.33E-09	3.48E-09	6.10E-08	1.69E-09	2.26E-08	2.82E-09	2.82E-09	1.39E-09	3.13E-08
2481	257881.09	4085742.11	2.02E-08	2.69E-07	3.99E-08	3.99E-08	2.22E-08	3.92E-07	3.06E-09	4.11E-08	6.22E-09	6.22E-09	3.42E-09	6.00E-08	1.66E-09	2.22E-08	2.77E-09	2.77E-09	1.37E-09	3.08E-08
2482	257905.37	4085741.03	1.98E-08	2.64E-07	3.91E-08	3.91E-08	2.18E-08	3.84E-07	3.00E-09	4.03E-08	6.11E-09	6.11E-09	3.36E-09	5.88E-08	1.63E-09	2.18E-08	2.72E-09	2.72E-09	1.34E-09	3.02E-08
2483	257929.65	4085739.96	1.94E-08	2.59E-07	3.83E-08	3.83E-08	2.13E-08	3.76E-07	2.94E-09	3.94E-08	5.97E-09	5.97E-09	3.28E-09	5.76E-08	1.60E-09	2.13E-08	2.66E-09	2.66E-09	1.32E-09	2.95E-08
2484	257953.94	4085738.88	1.89E-08	2.52E-07	3.73E-08	3.73E-08	2.08E-08	3.67E-07	2.87E-09	3.84E-08	5.83E-09	5.83E-09	3.20E-09	5.62E-08	1.56E-09	2.08E-08	2.59E-09	2.59E-09	1.28E-09	2.88E-08
2485	257978.22	4085737.81	1.84E-08	2.46E-07	3.63E-08	3.63E-08	2.03E-08	3.57E-07	2.79E-09	3.74E-08	5.67E-09	5.67E-09	3.12E-09	5.47E-08	1.52E-09	2.02E-08	2.52E-09	2.52E-09	1.25E-09	2.81E-08
2486	258002.5	4085736.73	1.79E-08	2.39E-07	3.53E-08	3.53E-08	1.97E-08	3.47E-07	2.71E-09	3.63E-08	5.51E-09	5.51E-09	3.03E-09	5.31E-08	1.47E-09	1.97E-08	2.45E-09	2.45E-09	1.21E-09	2.73E-08
2487	258026.78	4085735.65	1.73E-08	2.31E-07	3.42E-08	3.42E-08	1.91E-08	3.36E-07	2.63E-09	3.53E-08	5.35E-09	5.35E-09	2.94E-09	5.15E-08	1.43E-09	1.91E-08	2.38E-09	2.38E-09	1.18E-09	2.64E-08
2488	258051.06	4085734.58	1.68E-08	2.24E-07	3.32E-08	3.32E-08	1.85E-08	3.26E-07	2.55E-09	3.42E-08	5.18E-09	5.18E-09	2.85E-09	4.99E-08	1.38E-09	1.85E-08	2.31E-09	2.31E-09	1.14E-09	2.56E-08
2489	258075.34	4085733.5	1.63E-08	2.17E-07	3.22E-08	3.22E-08	1.79E-08	3.16E-07	2.47E-09	3.31E-08	5.02E-09	5.02E-09	2.76E-09	4.84E-08	1.34E-09	1.79E-08	2.23E-09	2.23E-09	1.11E-09	2.48E-08
2490	258099.63	4085732.43	1.58E-08	2.11E-07	3.12E-08	3.12E-08	1.74E-08	3.06E-07	2.39E-09	3.21E-08	4.86E-09	4.86E-09	2.67E-09	4.69E-08	1.30E-09	1.74E-08	2.16E-09	2.16E-09	1.07E-09	2.41E-08
2491	258123.91	4085731.35	1.53E-08	2.04E-07	3.02E-08	3.02E-08	1.68E-08	2.96E-07	2.32E-09	3.11E-08	4.71E-09	4.71E-09	2.59E-09	4.54E-08	1.26E-09	1.68E-08	2.10E-09	2.10E-09	1.04E-09	2.33E-08
2492	258148.19	4085730.28	1.48E-08	1.97E-07	2.92E-08	2.92E-08	1.63E-08	2.87E-07	2.24E-09	3.01E-08	4.56E-09	4.56E-09	2.51E-09	4.39E-08	1.22E-09	1.63E-08	2.03E-09	2.03E-09	1.00E-09	2.25E-08
2493	258172.47	4085729.2	1.43E-08	1.91E-07	2.82E-08	2.82E-08	1.57E-08	2.77E-07	2.17E-09	2.90E-08	4.40E-09	4.40E-09	2.42E-09	4.24E-08	1.18E-09	1.57E-08	1.96E-09	1.96E-09	9.70E-10	2.18E-08
2494	258196.75	4085728.13	1.38E-08	1.84E-07	2.72E-08	2.72E-08	1.52E-08	2.67E-07	2.09E-09	2.80E-08	4.25E-09	4.25E-09	2.33E-09	4.09E-08	1.13E-09	1.52E-08	1.89E-09	1.89E-09	9.35E-10	2.10E-08
2495	258221.04	4085727.05	1.32E-08	1.77E-07	2.62E-08	2.62E-08	1.46E-08	2.57E-07	2.01E-09	2.69E-08	4.08E-09	4.08E-09	2.25E-09	3.94E-08	1.09E-09	1.46E-08	1.82E-09	1.82E-09	9.00E-10	2.02E-08
2496	258245.32	4085725.98	1.27E-08	1.70E-07	2.51E-08	2.51E-08	1.40E-08	2.47E-07	1.93E-09	2.59E-08	3.92E-09	3.92E-09	2.16E-09	3.78E-08	1.05E-09	1.40E-08	1.74E-09	1.74E-09	8.64E-10	1.94E-08
2497	258269.6	4085724.9	1.22E-08	1.63E-07	2.41E-08	2.41E-08	1.34E-08	2.37E-07	1.85E-09	2.48E-08	3.76E-09	3.76E-09	2.07E-09	3.62E-08	1.00E-09	1.34E-08	1.67E-09	1.67E-09	8.28E-10	1.86E-08
2498	258293.88	4085723.82	1.17E-08	1.56E-07	2.31E-08	2.31E-08	1.29E-08	2.27E-07	1.77E-09	2.37E-08	3.60E-09	3.60E-09	1.98E-09	3.47E-08	9.62E-10	1.28E-08	1.60E-09	1.60E-09	7.93E-10	1.78E-08
2499	258318.16	4085722.75	1.12E-08	1.49E-07	2.21E-08	2.21E-08	1.23E-08	2.17E-07	1.69E-09	2.27E-08	3.44E-09	3.44E-09	1.89E-09	3.32E-08	9.20E-10	1.23E-08	1.53E-09	1.53E-09	7.59E-10	1.70E-08
2500	258342.44	4085721.67	1.07E-08	1.43E-07	2.11E-08	2.11E-08	1.18E-08	2.07E-07	1.62E-09	2.17E-08	3.29E-09	3.29E-09	1.81E-09	3.17E-08	8.80E-10	1.17E-08	1.46E-09	1.46E-09	7.25E-10	1.63E-08
2501	258366.73	4085720.6	1.02E-08	1.36E-07	2.01E-08	2.01E-08	1.12E-08	1.98E-07	1.55E-09	2.07E-08	3.15E-09	3.15E-09	1.73E-09	3.03E-08	8.40E-10	1.12E-08	1.40E-09	1.40E-09	6.93E-10	1.56E-08
2502	258391.01	4085719.52	9.74E-09	1.30E-07	1.92E-08	1.92E-08	1.07E-08	1.89E-07	1.48E-09	1.98E-08	3.00E-09	3.00E-09	1.65E-09	2.90E-08	8.03E-10	1.07E-08	1.34E-09	1.34E-09	6.62E-10	1.49E-08
2503	257572.16	4085846.89	1.82E-08	2.43E-07	3.59E-08	3.59E-08	2.00E-08	3.53E-07	2.76E-09	3.70E-08	5.61E-09	5.61E-09	3.09E-09	5.41E-08	1.50E-09	2.00E-08	2.50E-09	2.50E-09	1.24E-09	2.78E-08
2504	257550.18	4085838.86	1.85E-08	2.47E-07	3.66E-08	3.66E-08	2.04E-08	3.59E-07	2.81E-09	3.77E-08	5.71E-09	5.71E-09	3.14E-09	5.51E-08	1.53E-09	2.04E-08	2.54E-09	2.54E-09	1.26E-09	2.83E-08
2505	257528.21	4085830.83	1.88E-08	2.52E-07	3.72E-08	3.72E-08	2.08E-08	3.66E-07	2.86E-09	3.83E-08	5.81E-09	5.81E-09	3.19E-09	5.60E-08	1.55E-09	2.07E-08	2.59E-09	2.59E-09	1.28E-09	2.87E-08
2506	257506.23	4085822.8	1.91E-08	2.56E-07	3.78E-08	3.78E-08	2.11E-08	3.72E-07	2.90E-09	3.89E-08	5.91E-09	5.91E-09	3.25E-09	5.69E-08	1.58E-09	2.11E-08	2.63E-09	2.63E-09	1.30E-09	2.92E-08
2507	257484.26	4085814.78	1.94E-08	2.60E-07	3.84E-08	3.84E-08	2.14E-08	3.77E-07	2.95E-09	3.95E-08	5.99E-09	5.99E-09	3.30E-09	5.78E-08	1.60E-09	2.14E-08	2.67E-09	2.67E-09	1.32E-09	2.96E-08
2508	257462.28	4085806.75	1.97E-08	2.63E-07	3.89E-08	3.89E-08	2.17E-08	3.82E-07	2.99E-09	4.01E-08	6.08E-09	6.08E-09	3.34E-09	5.86E-08	1.62E-09	2.17E-08	2.70E-09	2.70E-09	1.34E-09	3.01E-08
2509	257440.31	4085798.72	2.00E-08	2.67E-07	3.94E-08	3.94E-08	2.20E-08	3.87E-07	3.03E-09	4.06E-08	6.16E-09	6.16E-09	3.39E-09	5.93E-08	1.65E-09	2.20E-08	2.74E-09	2.74E-09	1.36E-09	3.05E-08
2510	257418.33	4085790.69	2.02E-08	2.70E-07	3.99E-08	3.99E-08	2.23E-08	3.92E-07	3.07E-09	4.11E-08	6.23E-09	6.23E-09	3.43E-09	6.01E-08	1.66E-09	2.22E-08	2.77E-09	2.77E-09	1.37E-09	3.08E-08
2511	257396.36	4085782.67	2.04E-08	2.73E-07	4.04E-08	4.04E-08	2.25E-08	3.96E-07	3.10E-09	4.16E-08	6.30E-09	6.30E-09	3.46E-09	6.07E-08	1.68E-09	2.25E-08	2.80E-09	2.80E-09	1.39E-09	3.12E-08
2512	257374.38	4085774.64	2.06E-08	2.76E-07	4.08E-08	4.08E-08	2.27E-08	4.00E-07	3.13E-09	4.20E-08	6.37E-09	6.37E-09	3.50E-09	6.13E-08	1.70E-09	2.27E-08	2.83E-09	2.83E-09	1.40E-09	3.15E-08
2513	257352.41	4085766.61	2.08E-08	2.78E-07	4.11E-08	4.11E-08	2.29E-08	4.04E-07	3.16E-09	4.24E-08	6.42E-09	6.42E-09	3.53E-09	6.19E-08	1.72E-09	2.29E-08	2.86E-09	2.86E-09	1.41E-09	3.18E-08
2514	257330.43	4085758.58	2.10E-08	2.80E-07	4.15E-08	4.15E-08	2.31E-08	4.07E-07	3.18E-09	4.27E-08	6.48E-09	6.48E-09	3.56E-09	6.24E-08	1.73E-09	2.31E-08	2.88E-09	2.88E-09	1.43E-09	3.20E-08
2515	257308.46	4085750.56	2.11E-08	2.82E-07	4.17E-08	4.17E-08	2.32E-08	4.10E-07	3.20E-09	4.29E-08	6.51E-09	6.51E-09	3.58E-09	6.27E-08	1.74E-09	2.32E-08	2.90E-09	2.90E-09	1.43E-09	3.22E-08
2516	257286.48	4085742.53	2.12E-08	2.83E-07	4.18E-08	4.18E-08	2.33E-08	4.11E-07	3.21E-09	4.31E-08	6.53E-09	6.53E-09	3.59E-09	6.29E-08	1.74E-09	2.33E-08	2.90E-09	2.90E-09	1.44E-09	3.23E-08
2517	257264.51	4085734.5	2.11E-08	2.82E-07	4.18E-08	4.18E-08	2.33E-08	4.10E-07	3.21E-09	4.30E-08	6.52E-09	6.52E-09	3.59E-09	6.29E-08	1.74E-09	2.33E-08	2.90E-09	2.90E-09	1.44E-09	3.23E-08
2518	257242.53	4085726.47	2.10E-08	2.81E-07	4.16E-08	4.16E-08	2.32E-08	4.09E-07	3.19E-09	4.28E-08	6.49E-09	6.49E-09	3.57E-09	6.26E-08	1.73E-09	2.32E-08	2.89E-09	2.89E-09	1.43E-09	3.21E-08
2519	257220.56	4085718.45	2.09E-08	2.80E-07	4.14E-08	4.14E-08	2.31E-08	4.06E-07	3.18E-09	4.26E-08	6.46E-09	6.46E-09	3.55E-09	6.22E-08	1.72E-09	2.30E-08	2.87E-09	2.87E-09	1.42E-09	3.19E-08
2520	257198.58	4085710.42	2.07E-08	2.77E-07	4.10E-08	4.10E-08	2.29E-08	4.03E-07	3.15E-09	4.22E-08	6.40E-09	6.40E-09	3.52E-09	6.17E-08	1.71E-09	2.28E-08	2.85E-09	2.85E-09	1.41E-09	3.17E-08
2521	257176.61	4085702.39	2.05E-08	2.74E-07	4.05E-08	4.05E-08	2.26E-08	3.98E-07	3.11E-09	4.17E-08	6.33E-09	6.33E-09	3.48E-09	6.10E-08	1.69E-09	2.26E-08	2.82E-09	2.82E-09	1.39E-09	3.13E-08
2522	257154.63	4085694.36	2.02E-08	2.70E-07	4.00E-08	4.00E-08	2.23E-08	3.93E-07	3.07E-09	4.12E-08	6.25E-09	6.25E-09	3.43E-09	6.02E-08	1.67E-09	2.23E-08	2.78E-09	2.78E-09	1.38E-09	3.09E-08
2523	257132.66	4085686.34	2.00E-08	2.67E-07	3.95E-08	3.95E-08	2.20E-08	3.88E-07	3.03E-09	4.06E-08	6.16E-09	6.16E-09	3.39E-09	5.94E-08	1.65E-09	2.20E-08	2.74E-09	2.74E-09	1.36E-09	3.05E-08
2524	257110.68	4085678.31	1.97E-08	2.63E-07	3.89E-08	3.89E-08	2.17E-08	3.82E-07	2.99E-09	4.01E-08	6.07E-09	6.07E-09	3.34E-09	5.85E-08	1.62E-09	2.17E-08	2.70E-09	2.70E-09	1.34E-09	3.00E-08
2525	257078.92	4085649.03	1.96E-08	2.62E-07	3.87E-08	3.87E-08	2.16E-08	3.80E-07	2.97E-09	3.99E-08	6.05E-09	6.05E-09	3.32E-09	5.83E-08	1.62E-09	2.16E-08	2.69E-09	2.69E-09	1.33E-09	2.99E-08
2526	257069.14	4085627.78	1.97E-08	2.64E-07	3.90E-08	3.90E-08	2.18E-08	3.83E-07	3.00E-09	4.02E-08	6.09E-09	6.09E-09	3.35E-09	5.87E-08	1.63E-09	2.17E-08	2.71E-09	2.71E-09	1.34E-09	3.01E-08
2527	257059.35	4085606.53	1.98E-08	2.65E-07	3.91E-08	3.91E-08	2.18E-08	3.84E-07	3.01E-09	4.03E-08	6.11E-09	6.11E-09	3.36E-09	5.89E-08	1.63E-09	2.18E-08	2.72E-09	2.72E-09	1.35E-09	3.02E-08
2528	257049.57	4085585.28	1.98E-08	2.64E-07	3.90E-08	3.90E-08	2.18E-08	3.84E-07	3.00E-09	4.02E-08	6.10E-09	6.10E-09	3.35E-09	5.87E-08	1.63E-09	2.18E-08	2.71E-09	2.71E-09	1.34E-09	3.01E-08
2529	257039.78	4085564.03	1.96E-08	2.62E-07	3.87E-08	3.87E-08	2.16E-08	3.80E-07	2.97E-09	3.99E-08	6.04E-09	6.04E-09	3.32E-09	5.82E-08	1.61E-09	2.16E-08	2.69E-09	2.69E-09	1.33E-09	2.99E-08
2530	257029.99	4085542.78	1.93E-08	2.57E-07	3.81E-08	3.81E-08	2.12E-08	3.74E-07	2.93E-09	3.92E-08	5.95E-09	5.95E-09	3.27E-09	5.73E-08	1.59E-09	2.12E-08	2.65E-09	2.65E-09	1.31E-09	2.94E-08
2531	257020.21	4085521.53	1.88E-08	2.51E-07	3.72E-08	3.72E-08	2.07E-08	3.65E-07	2.86E-09	3.83E-08	5.81E-09	5.81E-09	3.19E-09	5.60E-08	1.55E-09	2.07E-08	2.58E-09	2.58E-09	1.28E-09	2.87E-08
2532	257010.42	4085500.28	1.82E-08	2.43E-07	3.60E-08	3.60E-08	2.01E-08	3.54E-07	2.77E-09	3.71E-08	5.62E-09	5.62E-09	3.09E-09	5.42E-08	1.50E-09	2.01E-08	2.50E-09	2.50E-09	1.24E-09	2.78E-08
2533	257000.64	4085479.03	1.75E-08	2.34E-07	3.46E-08	3.46E-08	1.93E-08	3.39E-07	2.65E-09	3.56E-08	5.40E-09	5.40E-09	2.97E-09	5.20E-08	1.44E-09	1.93E-08	2.40E-09	2.40E-09	1.19E-09	2.67E-08
2534	256990.85	4085457.78	1.66E-08	2.22E-07	3.29E-08	3.29E-08	1.83E-08	3.23E-07	2.52E-09	3.38E-08	5.13E-09	5.13E-09	2.82E-09	4.94E-08	1.37E-09	1.83E-08	2.28E-09	2.28E-09	1.13E-09	2.54E-08
2535	256981.07	4085436.52	1.57E-08	2.09E-07	3.10E-08	3.10E-08	1.73E-08	3.04E-07	2.38E-09	3.19E-08	4.84E-09	4.84E-09	2.66E-09	4.66E-08	1.29E-09	1.73E-08	2.15E-09	2.15E-09	1.07E-09	2.39E-08
2536	256971.28	4085415.27	1.47E-08	1.96E-07	2.90E-08	2.90E-08	1.62E-08	2.85E-07	2.23E-09	2.98E-08	4.52E-09	4.52E-09	2.49E-09	4.36E-08	1.21E-09	1.61E-08	2.01E-09	2.01E-09	9.96E-10	2.24E-08
2537	256961.5	4085394.02	1.36E-08	1.82E-07	2.69E-08	2.69E-08	1.50E-08	2.65E-07	2.07E-09	2.77E-08	4.20E-09	4.20E-09	2.31E-09	4.05E-08	1.12E-09	1.50E-08	1.87E-09	1.87E-09	9.26E-10	2.08E-08
2538	256951.71	4085372.77	1.26E-08	1.68E-07	2.49E-08	2.49E-08	1.39E-08	2.45E-07	1.91E-09	2.57E-08	3.89E-09	3.89E-09	2.14E-09	3.75E-08	1.04E-09	1.39E-08	1.73E-09	1.73E-09	8.57E-10	1.92E-08
2539	256941.92	4085351.52	1.17E-08	1.56E-07	2.30E-08	2.30E-08	1.28E-08	2.26E-07	1.77E-09	2.37E-08	3.60E-09	3.60E-09	1.98E-09	3.46E-08	9.60E-10	1.28E-08	1.60E-09	1.60E-09	7.92E-10	1.78E-08
2540	256932.14	4085330.27	1.08E-08	1.44E-07	2.13E-08	2.13E-08	1.19E-08	2.09E-07	1.64E-09	2.19E-08	3.33E-09	3.33E-09	1.83E-09	3.20E-08	8.88E-10	1.19E-08	1.48E-09	1.48E-09	7.32E-10	1.64E-08
2541	256922.35	4085309.02	1.00E-08	1.34E-07	1.98E-08	1.98E-08	1.10E-08	1.94E-07	1.52E-09	2.03E-08	3.08E-09	3.08E-09	1.70E-09	2.97E-08	8.24E-10	1.10E-08	1.37E-09	1.37E-09	6.79E-10	1.53E-08
2542	256912.57	4085287.77	9.33E-09	1.25E-07	1.84E-08	1.84E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.88E-09	2.88E-09	1.58E-09	2.77E-08	7.69E-10	1.03E-08	1.28E-09	1.28E-09	6.34E-10	1.42E-08
2543	256902.78	4085266.52	8.77E-09	1.17E-07	1.73E-08	1.73E-08	9.66E-09	1.70E-07	1.33E-09	1.78E-08	2.71E-09	2.71E-09	1.49E-09	2.61E-08	7.23E-10	9.65E-09	1.20E-09	1.20E-09	5.96E-10	1.34E-08
2544	256893	4085245.27	8.30E-09	1.11E-07	1.64E-08	1.64E-08	9.14E-09	1.61E-07	1.26E-09	1.69E-08	2.56E-09	2.56E-09	1.41E-09	2.47E-08	6.84E-10	9.14E-09	1.14E-09	1.14E-09	5.64E-10	1.27E-08
2545	256883.21	4085224.02	7.91E-09	1.06E-07	1.56E-08	1.56E-08	8.71E-09	1.54E-07	1.20E-09	1.61E-08	2.44E-09	2.44E-09	1.34E-09	2.35E-08	6.52E-10	8.71E-09	1.09E-09	1.09E-09	5.37E-10	1.21E-08
2546	256873.43	4085202.77	7.58E-09	1.01E-07	1.50E-08	1.50E-08	8.35E-09	1.47E-07	1.15E-09	1.54E-08	2.34E-09	2.34E-09	1.29E-09	2.25E-08	6.25E-10	8.35E-09	1.04E-09	1.04E-09	5.15E-10	1.16E-08
2547	257594.13	4085854.91	1.78E-08	2.38E-07	3.53E-08	3.53E-08	1.97E-08	3.46E-07	2.71E-09	3.63E-08	5.51E-09	5.51E-09	3.03E-09	5.31E-08	1.47E-09	1.97E-08	2.45E-09	2.45E-09	1.21E-09	2.72E-08
2548	257618.41	4085853.84	1.78E-08	2.38E-07	3.52E-08	3.52E-08	1.96E-08	3.46E-07	2.71E-09	3.63E-08	5.50E-09	5.50E-09	3.02E-09	5.30E-08	1.47E-09	1.96E-08	2.45E-09	2.45E-09	1.21E-09	2.72E-08
2549	257642.7	4085852.76	1.78E-08	2.38E-07	3.51E-08	3.51E-08	1.96E-08	3.45E-07	2.70E-09	3.62E-08	5.49E-09	5.49E-09	3.02E-09	5.29E-08	1.47E-09	1.96E-08	2.44E-09	2.44E-09	1.21E-09	2.71E-08
2550	257666.98	4085851.69	1.77E-08	2.37E-07	3.50E-08	3.50E-08	1.95E-08	3.44E-07	2.69E-09	3.60E-08	5.46E-09	5.46E-09	3.00E-09	5.27E-08	1.46E-09	1.95E-08	2.43E-09	2.43E-09	1.20E-09	2.70E-08
2551	257691.26	4085850.61	1.76E-08	2.35E-07	3.48E-08	3.48E-08	1.94E-08	3.42E-07	2.67E-09	3.58E-08	5.43E-09	5.43E-09	2.99E-09	5.23E-08	1.45E-09	1.94E-08	2.42E-09	2.42E-09	1.20E-09	2.69E-08
2552	257715.54	4085849.54	1.75E-08	2.33E-07	3.45E-08	3.45E-08	1.92E-08	3.39E-07	2.65E-09	3.55E-08	5.39E-09	5.39E-09	2.96E-09	5.19E-08	1.44E-09	1.92E-08	2.40E-09	2.40E-09	1.19E-09	2.66E-08
2553	257739.82	4085848.46	1.73E-08	2.31E-07	3.41E-08	3.41E-08	1.90E-08	3.35E-07	2.62E-09	3.51E-08	5.33E-09	5.33E-09	2.93E-09	5.14E-08	1.42E-09	1.90E-08	2.37E-09	2.37E-09	1.17E-09	2.64E-08
2554	257764.11	4085847.39	1.70E-08	2.27E-07	3.35E-08	3.35E-08	1.87E-08	3.29E-07	2.58E-09	3.45E-08	5.24E-09	5.24E-09	2.88E-09	5.05E-08	1.40E-09	1.87E-08	2.33E-09	2.33E-09	1.15E-09	2.59E-08
2555	257788.39	4085846.31	1.67E-08	2.23E-07	3.30E-08	3.30E-08	1.84E-08	3.24E-07	2.54E-09	3.40E-08	5.16E-09	5.16E-09	2.83E-09	4.97E-08	1.38E-09	1.84E-08	2.29E-09	2.29E-09	1.14E-09	2.55E-08
2556	257812.67	4085845.24	1.64E-08	2.19E-07	3.25E-08	3.25E-08	1.81E-08	3.19E-07	2.49E-09	3.34E-08	5.07E-09	5.07E-09	2.79E-09	4.89E-08	1.35E-09	1.81E-08	2.26E-09	2.26E-09	1.12E-09	2.51E-08
2557	257836.95	4085844.16	1.61E-08	2.15E-07	3.19E-08	3.19E-08	1.78E-08	3.13E-07	2.45E-09	3.28E-08	4.98E-09	4.98E-09	2.74E-09	4.80E-08	1.33E-09	1.78E-08	2.21E-09	2.21E-09	1.10E-09	2.46E-08
2558	257861.23	4085843.08	1.58E-08	2.11E-07	3.12E-08	3.12E-08	1.74E-08	3.07E-07	2.40E-09	3.22E-08	4.88E-09	4.88E-09	2.68E-09	4.70E-08	1.30E-09	1.74E-08	2.17E-09	2.17E-09	1.07E-09	2.41E-08
2559	257885.51	4085842.01	1.55E-08	2.07E-07	3.06E-08	3.06E-08	1.71E-08	3.00E-07	2.35E-09	3.15E-08	4.78E-09	4.78E-09	2.63E-09	4.60E-08	1.28E-09	1.70E-08	2.12E-09	2.12E-09	1.05E-09	2.36E-08
2560	257909.8	4085840.93	1.51E-08	2.02E-07	2.99E-08	2.99E-08	1.67E-08	2.94E-07	2.30E-09	3.08E-08	4.67E-09	4.67E-09	2.57E-09	4.50E-08	1.25E-09	1.67E-08	2.08E-09	2.08E-09	1.03E-09	2.31E-08
2561	257934.08	4085839.86	1.48E-08	1.97E-07	2.92E-08	2.92E-08	1.63E-08	2.87E-07	2.24E-09	3.01E-08	4.56E-09	4.56E-09	2.51E-09	4.39E-08	1.22E-09	1.63E-08	2.03E-09	2.03E-09	1.00E-09	2.26E-08
2562	257958.36	4085838.78	1.44E-08	1.93E-07	2.85E-08	2.85E-08	1.59E-08	2.80E-07	2.19E-09	2.94E-08	4.45E-09	4.45E-09	2.45E-09	4.29E-08	1.19E-09	1.59E-08	1.98E-09	1.98E-09	9.80E-10	2.20E-08
2563	257982.64	4085837.71	1.41E-08	1.88E-07	2.78E-08	2.78E-08	1.55E-08	2.73E-07	2.14E-09	2.86E-08	4.34E-09	4.34E-09	2.39E-09	4.18E-08	1.16E-09	1.55E-08	1.93E-09	1.93E-09	9.56E-10	2.15E-08
2564	258006.92	4085836.63	1.37E-08	1.83E-07	2.71E-08	2.71E-08	1.51E-08	2.66E-07	2.08E-09	2.79E-08	4.23E-09	4.23E-09	2.33E-09	4.08E-08	1.13E-09	1.51E-08	1.88E-09	1.88E-09	9.32E-10	2.09E-08
2565	258031.21	4085835.56	1.34E-08	1.79E-07	2.64E-08	2.64E-08	1.47E-08	2.60E-07	2.03E-09	2.72E-08	4.13E-09	4.13E-09	2.27E-09	3.98E-08	1.10E-09	1.47E-08	1.84E-09	1.84E-09	9.09E-10	2.04E-08
2566	258055.49	4085834.48	1.30E-08	1.74E-07	2.58E-08	2.58E-08	1.44E-08	2.53E-07	1.98E-09	2.65E-08	4.02E-09	4.02E-09	2.21E-09	3.88E-08	1.07E-09	1.44E-08	1.79E-09	1.79E-09	8.86E-10	1.99E-08
2567	258079.77	4085833.41	1.27E-08	1.70E-07	2.51E-08	2.51E-08	1.40E-08	2.47E-07	1.93E-09	2.59E-08	3.92E-09	3.92E-09	2.16E-09	3.78E-08	1.05E-09	1.40E-08	1.74E-09	1.74E-09	8.63E-10	1.94E-08
2568	258104.05	4085832.33	1.24E-08	1.65E-07	2.44E-08	2.44E-08	1.36E-08	2.40E-07	1.88E-09	2.52E-08	3.82E-09	3.82E-09	2.10E-09	3.68E-08	1.02E-09	1.36E-08	1.70E-09	1.70E-09	8.41E-10	1.89E-08
2569	258128.33	4085831.25	1.20E-08	1.61E-07	2.38E-08	2.38E-08	1.32E-08	2.33E-07	1.83E-09	2.45E-08	3.71E-09	3.71E-09	2.04E-09	3.58E-08	9.91E-10	1.32E-08	1.65E-09	1.65E-09	8.17E-10	1.83E-08
2570	258152.61	4085830.18	1.17E-08	1.56E-07	2.31E-08	2.31E-08	1.29E-08	2.27E-07	1.77E-09	2.37E-08	3.60E-09	3.60E-09	1.98E-09	3.47E-08	9.62E-10	1.28E-08	1.60E-09	1.60E-09	7.93E-10	1.78E-08
2571	258176.9	4085829.1	1.13E-08	1.51E-07	2.23E-08	2.23E-08	1.25E-08	2.19E-07	1.72E-09	2.30E-08	3.49E-09	3.49E-09	1.92E-09	3.36E-08	9.32E-10	1.24E-08	1.55E-09	1.55E-09	7.68E-10	1.72E-08
2572	258201.18	4085828.03	1.09E-08	1.46E-07	2.16E-08	2.16E-08	1.20E-08	2.12E-07	1.66E-09	2.22E-08	3.37E-09	3.37E-09	1.85E-09	3.25E-08	9.01E-10	1.20E-08	1.50E-09	1.50E-09	7.42E-10	1.67E-08
2573	258225.46	4085826.95	1.05E-08	1.41E-07	2.08E-08	2.08E-08	1.16E-08	2.05E-07	1.60E-09	2.15E-08	3.25E-09	3.25E-09	1.79E-09	3.14E-08	8.69E-10	1.16E-08	1.45E-09	1.45E-09	7.17E-10	1.61E-08
2574	258249.74	4085825.88	1.02E-08	1.36E-07	2.01E-08	2.01E-08	1.12E-08	1.97E-07	1.54E-09	2.07E-08	3.14E-09	3.14E-09	1.73E-09	3.02E-08	8.38E-10	1.12E-08	1.40E-09	1.40E-09	6.91E-10	1.55E-08
2575	258274.02	4085824.8	9.80E-09	1.31E-07	1.94E-08	1.94E-08	1.08E-08	1.90E-07	1.49E-09	1.99E-08	3.02E-09	3.02E-09	1.66E-09	2.91E-08	8.08E-10	1.08E-08	1.35E-09	1.35E-09	6.66E-10	1.50E-08
2576	258298.31	4085823.73	9.44E-09	1.26E-07	1.87E-08	1.87E-08	1.04E-08	1.83E-07	1.43E-09	1.92E-08	2.91E-09	2.91E-09	1.60E-09	2.81E-08	7.78E-10	1.04E-08	1.30E-09	1.30E-09	6.41E-10	1.44E-08
2577	258322.59	4085822.65	9.08E-09	1.21E-07	1.79E-08	1.79E-08	1.00E-08	1.76E-07	1.38E-09	1.85E-08	2.80E-09	2.80E-09	1.54E-09	2.70E-08	7.49E-10	1.00E-08	1.25E-09	1.25E-09	6.17E-10	1.39E-08
2578	258346.87	4085821.58	8.73E-09	1.17E-07	1.73E-08	1.73E-08	9.62E-09	1.70E-07	1.33E-09	1.78E-08	2.69E-09	2.69E-09	1.48E-09	2.60E-08	7.20E-10	9.62E-09	1.20E-09	1.20E-09	5.94E-10	1.33E-08
2579	258371.15	4085820.5	8.39E-09	1.12E-07	1.66E-08	1.66E-08	9.25E-09	1.63E-07	1.27E-09	1.71E-08	2.59E-09	2.59E-09	1.42E-09	2.50E-08	6.92E-10	9.24E-09	1.15E-09	1.15E-09	5.70E-10	1.28E-08
2580	258395.43	4085819.42	8.07E-09	1.08E-07	1.59E-08	1.59E-08	8.89E-09	1.57E-07	1.22E-09	1.64E-08	2.49E-09	2.49E-09	1.37E-09	2.40E-08	6.65E-10	8.88E-09	1.11E-09	1.11E-09	5.48E-10	1.23E-08
2581	257580.57	4086046.53	1.24E-08	1.65E-07	2.44E-08	2.44E-08	1.36E-08	2.40E-07	1.88E-09	2.52E-08	3.82E-09	3.82E-09	2.10E-09	3.68E-08	1.02E-09	1.36E-08	1.70E-09	1.70E-09	8.40E-10	1.89E-08
2582	257558.17	4086038.35	1.26E-08	1.68E-07	2.49E-08	2.49E-08	1.39E-08	2.45E-07	1.91E-09	2.57E-08	3.89E-09	3.89E-09	2.14E-09	3.75E-08	1.04E-09	1.39E-08	1.73E-09	1.73E-09	8.57E-10	1.92E-08
2583	257535.76	4086030.16	1.29E-08	1.72E-07	2.54E-08	2.54E-08	1.42E-08	2.50E-07	1.95E-09	2.62E-08	3.97E-09	3.97E-09	2.18E-09	3.83E-08	1.06E-09	1.42E-08	1.77E-09	1.77E-09	8.74E-10	1.96E-08
2584	257513.35	4086021.98	1.31E-08	1.75E-07	2.58E-08	2.58E-08	1.44E-08	2.54E-07	1.98E-09	2.66E-08	4.03E-09	4.03E-09	2.22E-09	3.89E-08	1.08E-09	1.44E-08	1.80E-09	1.80E-09	8.89E-10	2.00E-08
2585	257490.94	4086013.79	1.33E-08	1.77E-07	2.62E-08	2.62E-08	1.46E-08	2.58E-07	2.01E-09	2.70E-08	4.10E-09	4.10E-09	2.25E-09	3.95E-08	1.09E-09	1.46E-08	1.82E-09	1.82E-09	9.02E-10	2.03E-08
2586	257468.53	4086005.6	1.35E-08	1.80E-07	2.66E-08	2.66E-08	1.48E-08	2.61E-07	2.04E-09	2.74E-08	4.15E-09	4.15E-09	2.28E-09	4.00E-08	1.11E-09	1.48E-08	1.85E-09	1.85E-09	9.15E-10	2.05E-08
2587	257446.13	4085997.42	1.36E-08	1.82E-07	2.70E-08	2.70E-08	1.50E-08	2.65E-07	2.07E-09	2.78E-08	4.21E-09	4.21E-09	2.31E-09	4.06E-08	1.12E-09	1.50E-08	1.87E-09	1.87E-09	9.27E-10	2.08E-08
2588	257423.72	4085989.23	1.38E-08	1.84E-07	2.73E-08	2.73E-08	1.52E-08	2.68E-07	2.10E-09	2.81E-08	4.26E-09	4.26E-09	2.34E-09	4.10E-08	1.14E-09	1.52E-08	1.90E-09	1.90E-09	9.38E-10	2.11E-08
2589	257401.31	4085981.05	1.40E-08	1.86E-07	2.76E-08	2.76E-08	1.54E-08	2.71E-07	2.12E-09	2.84E-08	4.31E-09	4.31E-09	2.37E-09	4.15E-08	1.15E-09	1.54E-08	1.92E-09	1.92E-09	9.49E-10	2.13E-08
2590	257378.9	4085972.86	1.41E-08	1.89E-07	2.79E-08	2.79E-08	1.56E-08	2.74E-07	2.14E-09	2.87E-08	4.36E-09	4.36E-09	2.39E-09	4.20E-08	1.16E-09	1.55E-08	1.94E-09	1.94E-09	9.59E-10	2.15E-08
2591	257356.49	4085964.68	1.43E-08	1.91E-07	2.82E-08	2.82E-08	1.57E-08	2.77E-07	2.17E-09	2.90E-08	4.40E-09	4.40E-09	2.42E-09	4.24E-08	1.18E-09	1.57E-08	1.96E-09	1.96E-09	9.69E-10	2.18E-08
2592	257334.09	4085956.49	1.44E-08	1.93E-07	2.85E-08	2.85E-08	1.59E-08	2.80E-07	2.19E-09	2.93E-08	4.45E-09	4.45E-09	2.45E-09	4.29E-08	1.19E-09	1.59E-08	1.98E-09	1.98E-09	9.80E-10	2.20E-08

2593	257311.68	4085948.3	1.46E-08	1.95E-07	2.88E-08	2.88E-08	1.61E-08	2.83E-07	2.21E-09	2.97E-08	4.50E-09	4.50E-09	2.47E-09	4.33E-08	1.20E-09	1.61E-08	2.00E-09	2.00E-09	9.91E-10	2.22E-08
2594	257289.27	4085940.12	1.47E-08	1.97E-07	2.91E-08	2.91E-08	1.62E-08	2.86E-07	2.24E-09	3.00E-08	4.55E-09	4.55E-09	2.50E-09	4.38E-08	1.21E-09	1.62E-08	2.02E-09	2.02E-09	1.00E-09	2.25E-08
2595	257266.86	4085931.93	1.49E-08	1.99E-07	2.94E-08	2.94E-08	1.64E-08	2.89E-07	2.26E-09	3.03E-08	4.59E-09	4.59E-09	2.52E-09	4.43E-08	1.23E-09	1.64E-08	2.04E-09	2.04E-09	1.01E-09	2.27E-08
2596	257244.45	4085923.75	1.50E-08	2.01E-07	2.97E-08	2.97E-08	1.65E-08	2.91E-07	2.28E-09	3.06E-08	4.63E-09	4.63E-09	2.55E-09	4.46E-08	1.24E-09	1.65E-08	2.06E-09	2.06E-09	1.02E-09	2.29E-08
2597	257222.05	4085915.56	1.51E-08	2.02E-07	2.99E-08	2.99E-08	1.67E-08	2.93E-07	2.29E-09	3.08E-08	4.66E-09	4.66E-09	2.56E-09	4.50E-08	1.25E-09	1.66E-08	2.08E-09	2.08E-09	1.03E-09	2.31E-08
2598	257199.64	4085907.37	1.52E-08	2.03E-07	3.00E-08	3.00E-08	1.67E-08	2.95E-07	2.30E-09	3.09E-08	4.69E-09	4.69E-09	2.58E-09	4.52E-08	1.25E-09	1.67E-08	2.08E-09	2.08E-09	1.03E-09	2.32E-08
2599	257177.23	4085899.19	1.52E-08	2.03E-07	3.01E-08	3.01E-08	1.68E-08	2.95E-07	2.31E-09	3.10E-08	4.69E-09	4.69E-09	2.58E-09	4.52E-08	1.25E-09	1.67E-08	2.09E-09	2.09E-09	1.03E-09	2.32E-08
2600	257154.82	4085891	1.52E-08	2.03E-07	3.00E-08	3.00E-08	1.67E-08	2.95E-07	2.31E-09	3.09E-08	4.69E-09	4.69E-09	2.58E-09	4.52E-08	1.25E-09	1.67E-08	2.09E-09	2.09E-09	1.03E-09	2.32E-08
2601	257132.41	4085882.82	1.52E-08	2.02E-07	2.99E-08	2.99E-08	1.67E-08	2.94E-07	2.30E-09	3.08E-08	4.68E-09	4.68E-09	2.57E-09	4.51E-08	1.25E-09	1.67E-08	2.08E-09	2.08E-09	1.03E-09	2.31E-08
2602	257110.01	4085874.63	1.51E-08	2.01E-07	2.98E-08	2.98E-08	1.66E-08	2.93E-07	2.29E-09	3.07E-08	4.65E-09	4.65E-09	2.56E-09	4.49E-08	1.24E-09	1.66E-08	2.07E-09	2.07E-09	1.03E-09	2.30E-08
2603	257087.6	4085866.45	1.50E-08	2.00E-07	2.97E-08	2.97E-08	1.65E-08	2.91E-07	2.28E-09	3.05E-08	4.63E-09	4.63E-09	2.55E-09	4.46E-08	1.24E-09	1.65E-08	2.06E-09	2.06E-09	1.02E-09	2.29E-08
2604	257065.19	4085858.26	1.49E-08	1.99E-07	2.95E-08	2.95E-08	1.64E-08	2.90E-07	2.26E-09	3.04E-08	4.60E-09	4.60E-09	2.53E-09	4.44E-08	1.23E-09	1.64E-08	2.05E-09	2.05E-09	1.01E-09	2.28E-08
2605	257042.78	4085850.07	1.48E-08	1.98E-07	2.93E-08	2.93E-08	1.63E-08	2.88E-07	2.25E-09	3.02E-08	4.58E-09	4.58E-09	2.52E-09	4.41E-08	1.22E-09	1.63E-08	2.04E-09	2.04E-09	1.01E-09	2.26E-08
2606	257020.37	4085841.89	1.47E-08	1.97E-07	2.91E-08	2.91E-08	1.62E-08	2.86E-07	2.24E-09	3.00E-08	4.55E-09	4.55E-09	2.50E-09	4.38E-08	1.22E-09	1.62E-08	2.02E-09	2.02E-09	1.00E-09	2.25E-08
2607	256997.97	4085833.7	1.46E-08	1.96E-07	2.89E-08	2.89E-08	1.61E-08	2.84E-07	2.22E-09	2.98E-08	4.52E-09	4.52E-09	2.49E-09	4.36E-08	1.21E-09	1.61E-08	2.01E-09	2.01E-09	9.95E-10	2.24E-08
2608	256975.56	4085825.52	1.45E-08	1.94E-07	2.88E-08	2.88E-08	1.60E-08	2.82E-07	2.21E-09	2.96E-08	4.49E-09	4.49E-09	2.47E-09	4.33E-08	1.20E-09	1.60E-08	2.00E-09	2.00E-09	9.89E-10	2.22E-08
2609	256943.17	4085795.66	1.47E-08	1.96E-07	2.90E-08	2.90E-08	1.61E-08	2.84E-07	2.22E-09	2.98E-08	4.52E-09	4.52E-09	2.49E-09	4.36E-08	1.21E-09	1.61E-08	2.01E-09	2.01E-09	9.96E-10	2.24E-08
2610	256933.19	4085773.99	1.48E-08	1.98E-07	2.93E-08	2.93E-08	1.64E-08	2.88E-07	2.25E-09	3.02E-08	4.58E-09	4.58E-09	2.52E-09	4.41E-08	1.22E-09	1.63E-08	2.04E-09	2.04E-09	1.01E-09	2.27E-08
2611	256923.22	4085752.32	1.50E-08	2.00E-07	2.97E-08	2.97E-08	1.65E-08	2.91E-07	2.28E-09	3.05E-08	4.63E-09	4.63E-09	2.55E-09	4.46E-08	1.24E-09	1.65E-08	2.06E-09	2.06E-09	1.02E-09	2.29E-08
2612	256913.24	4085730.65	1.51E-08	2.02E-07	2.98E-08	2.98E-08	1.66E-08	2.93E-07	2.29E-09	3.07E-08	4.66E-09	4.66E-09	2.56E-09	4.49E-08	1.24E-09	1.66E-08	2.07E-09	2.07E-09	1.03E-09	2.30E-08
2613	256903.26	4085708.99	1.51E-08	2.02E-07	2.99E-08	2.99E-08	1.66E-08	2.93E-07	2.29E-09	3.07E-08	4.66E-09	4.66E-09	2.56E-09	4.49E-08	1.25E-09	1.66E-08	2.07E-09	2.07E-09	1.03E-09	2.31E-08
2614	256893.28	4085687.32	1.50E-08	2.01E-07	2.97E-08	2.97E-08	1.66E-08	2.92E-07	2.28E-09	3.06E-08	4.64E-09	4.64E-09	2.55E-09	4.47E-08	1.24E-09	1.66E-08	2.07E-09	2.07E-09	1.02E-09	2.30E-08
2615	256883.3	4085665.65	1.49E-08	1.99E-07	2.94E-08	2.94E-08	1.64E-08	2.89E-07	2.26E-09	3.03E-08	4.59E-09	4.59E-09	2.53E-09	4.43E-08	1.23E-09	1.64E-08	2.04E-09	2.04E-09	1.01E-09	2.27E-08
2616	256873.32	4085643.98	1.46E-08	1.96E-07	2.89E-08	2.89E-08	1.61E-08	2.84E-07	2.22E-09	2.98E-08	4.52E-09	4.52E-09	2.49E-09	4.36E-08	1.21E-09	1.61E-08	2.01E-09	2.01E-09	9.95E-10	2.24E-08
2617	256863.35	4085622.31	1.43E-08	1.91E-07	2.83E-08	2.83E-08	1.58E-08	2.78E-07	2.17E-09	2.91E-08	4.42E-09	4.42E-09	2.43E-09	4.26E-08	1.18E-09	1.58E-08	1.97E-09	1.97E-09	9.73E-10	2.18E-08
2618	256853.37	4085600.64	1.39E-08	1.86E-07	2.75E-08	2.75E-08	1.53E-08	2.70E-07	2.11E-09	2.83E-08	4.29E-09	4.29E-09	2.36E-09	4.13E-08	1.15E-09	1.53E-08	1.91E-09	1.91E-09	9.44E-10	2.12E-08
2619	256843.39	4085578.97	1.34E-08	1.79E-07	2.64E-08	2.64E-08	1.47E-08	2.60E-07	2.03E-09	2.72E-08	4.13E-09	4.13E-09	2.27E-09	3.98E-08	1.10E-09	1.47E-08	1.84E-09	1.84E-09	9.09E-10	2.04E-08
2620	256833.41	4085557.3	1.28E-08	1.71E-07	2.53E-08	2.53E-08	1.41E-08	2.48E-07	1.94E-09	2.60E-08	3.95E-09	3.95E-09	2.17E-09	3.81E-08	1.05E-09	1.41E-08	1.76E-09	1.76E-09	8.70E-10	1.95E-08
2621	256823.43	4085535.63	1.22E-08	1.62E-07	2.40E-08	2.40E-08	1.34E-08	2.36E-07	1.84E-09	2.47E-08	3.75E-09	3.75E-09	2.06E-09	3.61E-08	1.00E-09	1.34E-08	1.67E-09	1.67E-09	8.26E-10	1.85E-08
2622	256813.45	4085513.96	1.15E-08	1.53E-07	2.26E-08	2.26E-08	1.26E-08	2.22E-07	1.74E-09	2.33E-08	3.54E-09	3.54E-09	1.94E-09	3.41E-08	9.45E-10	1.26E-08	1.57E-09	1.57E-09	7.79E-10	1.75E-08
2623	256803.47	4085492.29	1.07E-08	1.44E-07	2.12E-08	2.12E-08	1.18E-08	2.09E-07	1.63E-09	2.19E-08	3.32E-09	3.32E-09	1.82E-09	3.19E-08	8.86E-10	1.18E-08	1.48E-09	1.48E-09	7.30E-10	1.64E-08
2624	256793.5	4085470.62	1.00E-08	1.34E-07	1.98E-08	1.98E-08	1.10E-08	1.95E-07	1.52E-09	2.04E-08	3.09E-09	3.09E-09	1.70E-09	2.98E-08	8.27E-10	1.10E-08	1.38E-09	1.38E-09	6.81E-10	1.53E-08
2625	256783.52	4085448.95	9.34E-09	1.25E-07	1.85E-08	1.85E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.88E-09	2.88E-09	1.58E-09	2.78E-08	7.70E-10	1.03E-08	1.28E-09	1.28E-09	6.34E-10	1.42E-08
2626	256773.54	4085427.29	8.69E-09	1.16E-07	1.72E-08	1.72E-08	9.57E-09	1.69E-07	1.32E-09	1.77E-08	2.68E-09	2.68E-09	1.47E-09	2.58E-08	7.16E-10	9.57E-09	1.19E-09	1.19E-09	5.90E-10	1.33E-08
2627	256763.56	4085405.62	8.10E-09	1.08E-07	1.60E-08	1.60E-08	8.93E-09	1.57E-07	1.23E-09	1.65E-08	2.50E-09	2.50E-09	1.37E-09	2.41E-08	6.68E-10	8.92E-09	1.11E-09	1.11E-09	5.51E-10	1.24E-08
2628	256753.58	4085383.95	7.59E-09	1.01E-07	1.50E-08	1.50E-08	8.36E-09	1.47E-07	1.15E-09	1.54E-08	2.34E-09	2.34E-09	1.29E-09	2.26E-08	6.25E-10	8.35E-09	1.04E-09	1.04E-09	5.16E-10	1.16E-08
2629	256743.6	4085362.28	7.14E-09	9.54E-08	1.41E-08	1.41E-08	7.87E-09	1.39E-07	1.08E-09	1.45E-08	2.20E-09	2.20E-09	1.21E-09	2.12E-08	5.89E-10	7.86E-09	9.81E-10	9.81E-10	4.85E-10	1.09E-08
2630	256733.63	4085340.61	6.77E-09	9.04E-08	1.34E-08	1.34E-08	7.46E-09	1.31E-07	1.03E-09	1.38E-08	2.09E-09	2.09E-09	1.15E-09	2.01E-08	5.58E-10	7.45E-09	9.29E-10	9.29E-10	4.60E-10	1.03E-08
2631	256723.65	4085318.94	6.45E-09	8.62E-08	1.28E-08	1.28E-08	7.11E-09	1.25E-07	9.79E-10	1.31E-08	1.99E-09	1.99E-09	1.09E-09	1.92E-08	5.32E-10	7.11E-09	8.86E-10	8.86E-10	4.39E-10	9.85E-09
2632	256713.67	4085297.27	6.19E-09	8.26E-08	1.22E-08	1.22E-08	6.82E-09	1.20E-07	9.39E-10	1.26E-08	1.91E-09	1.91E-09	1.05E-09	1.84E-08	5.10E-10	6.81E-09	8.49E-10	8.49E-10	4.20E-10	9.44E-09
2633	256703.69	4085275.6	5.96E-09	7.96E-08	1.18E-08	1.18E-08	6.56E-09	1.16E-07	9.04E-10	1.21E-08	1.84E-09	1.84E-09	1.01E-09	1.77E-08	4.91E-10	6.56E-09	8.18E-10	8.18E-10	4.05E-10	9.09E-09
2634	256693.71	4085253.93	5.76E-09	7.69E-08	1.14E-08	1.14E-08	6.34E-09	1.12E-07	8.73E-10	1.17E-08	1.78E-09	1.78E-09	9.76E-10	1.71E-08	4.74E-10	6.34E-09	7.90E-10	7.90E-10	3.91E-10	8.78E-09
2635	256683.73	4085232.26	5.58E-09	7.45E-08	1.10E-08	1.10E-08	6.14E-09	1.08E-07	8.46E-10	1.13E-08	1.72E-09	1.72E-09	9.46E-10	1.66E-08	4.60E-10	6.14E-09	7.65E-10	7.65E-10	3.79E-10	8.51E-09
2636	256673.76	4085210.59	5.42E-09	7.24E-08	1.07E-08	1.07E-08	5.97E-09	1.05E-07	8.22E-10	1.10E-08	1.67E-09	1.67E-09	9.19E-10	1.61E-08	4.47E-10	5.97E-09	7.44E-10	7.44E-10	3.68E-10	8.27E-09
2637	257602.98	4086054.72	1.21E-08	1.62E-07	2.40E-08	2.40E-08	1.34E-08	2.35E-07	1.84E-09	2.47E-08	3.74E-09	3.74E-09	2.06E-09	3.60E-08	9.99E-10	1.33E-08	1.66E-09	1.66E-09	8.24E-10	1.85E-08
2638	257627.26	4086053.64	1.20E-08	1.61E-07	2.38E-08	2.38E-08	1.33E-08	2.34E-07	1.83E-09	2.45E-08	3.72E-09	3.72E-09	2.04E-09	3.58E-08	9.93E-10	1.33E-08	1.65E-09	1.65E-09	8.19E-10	1.84E-08
2639	257651.55	4086052.57	1.20E-08	1.60E-07	2.36E-08	2.36E-08	1.32E-08	2.32E-07	1.81E-09	2.43E-08	3.69E-09	3.69E-09	2.03E-09	3.56E-08	9.86E-10	1.32E-08	1.64E-09	1.64E-09	8.13E-10	1.82E-08
2640	257675.83	4086051.49	1.18E-08	1.58E-07	2.34E-08	2.34E-08	1.31E-08	2.30E-07	1.80E-09	2.41E-08	3.66E-09	3.66E-09	2.01E-09	3.52E-08	9.77E-10	1.30E-08	1.63E-09	1.63E-09	8.05E-10	1.81E-08
2641	257700.11	4086050.42	1.17E-08	1.56E-07	2.32E-08	2.32E-08	1.29E-08	2.27E-07	1.78E-09	2.38E-08	3.61E-09	3.61E-09	1.99E-09	3.48E-08	9.66E-10	1.29E-08	1.61E-09	1.61E-09	7.96E-10	1.79E-08
2642	257724.39	4086049.34	1.16E-08	1.54E-07	2.28E-08	2.28E-08	1.27E-08	2.24E-07	1.75E-09	2.35E-08	3.57E-09	3.57E-09	1.96E-09	3.44E-08	9.53E-10	1.27E-08	1.59E-09	1.59E-09	7.86E-10	1.76E-08
2643	257748.67	4086048.27	1.14E-08	1.52E-07	2.25E-08	2.25E-08	1.25E-08	2.21E-07	1.73E-09	2.32E-08	3.51E-09	3.51E-09	1.93E-09	3.38E-08	9.38E-10	1.25E-08	1.56E-09	1.56E-09	7.74E-10	1.74E-08
2644	257772.96	4086047.19	1.12E-08	1.49E-07	2.21E-08	2.21E-08	1.23E-08	2.17E-07	1.70E-09	2.28E-08	3.45E-09	3.45E-09	1.90E-09	3.33E-08	9.22E-10	1.23E-08	1.54E-09	1.54E-09	7.60E-10	1.71E-08
2645	257797.24	4086046.11	1.10E-08	1.46E-07	2.17E-08	2.17E-08	1.21E-08	2.13E-07	1.66E-09	2.23E-08	3.38E-09	3.38E-09	1.86E-09	3.26E-08	9.04E-10	1.21E-08	1.51E-09	1.51E-09	7.45E-10	1.67E-08
2646	257821.52	4086045.04	1.07E-08	1.43E-07	2.12E-08	2.12E-08	1.18E-08	2.08E-07	1.63E-09	2.18E-08	3.31E-09	3.31E-09	1.82E-09	3.19E-08	8.85E-10	1.18E-08	1.47E-09	1.47E-09	7.29E-10	1.64E-08
2647	257845.8	4086043.96	1.05E-08	1.40E-07	2.07E-08	2.07E-08	1.16E-08	2.04E-07	1.59E-09	2.14E-08	3.24E-09	3.24E-09	1.78E-09	3.12E-08	8.65E-10	1.16E-08	1.44E-09	1.44E-09	7.13E-10	1.60E-08
2648	257870.08	4086042.89	1.03E-08	1.37E-07	2.03E-08	2.03E-08	1.13E-08	1.99E-07	1.56E-09	2.09E-08	3.16E-09	3.16E-09	1.74E-09	3.05E-08	8.45E-10	1.13E-08	1.41E-09	1.41E-09	6.97E-10	1.56E-08
2649	257894.36	4086041.81	1.00E-08	1.34E-07	1.98E-08	1.98E-08	1.10E-08	1.95E-07	1.52E-09	2.04E-08	3.09E-09	3.09E-09	1.70E-09	2.98E-08	8.26E-10	1.10E-08	1.38E-09	1.38E-09	6.81E-10	1.53E-08
2650	257918.65	4086040.74	9.80E-09	1.31E-07	1.94E-08	1.94E-08	1.08E-08	1.90E-07	1.49E-09	1.99E-08	3.02E-09	3.02E-09	1.66E-09	2.91E-08	8.08E-10	1.08E-08	1.35E-09	1.35E-09	6.66E-10	1.50E-08
2651	257942.93	4086039.66	9.60E-09	1.28E-07	1.90E-08	1.90E-08	1.06E-08	1.86E-07	1.46E-09	1.95E-08	2.96E-09	2.96E-09	1.63E-09	2.85E-08	7.91E-10	1.06E-08	1.32E-09	1.32E-09	6.52E-10	1.46E-08
2652	257967.21	4086038.59	9.41E-09	1.26E-07	1.86E-08	1.86E-08	1.04E-08	1.83E-07	1.43E-09	1.92E-08	2.90E-09	2.90E-09	1.60E-09	2.80E-08	7.76E-10	1.04E-08	1.29E-09	1.29E-09	6.40E-10	1.44E-08
2653	257991.49	4086037.51	9.24E-09	1.23E-07	1.83E-08	1.83E-08	1.02E-08	1.79E-07	1.40E-09	1.88E-08	2.85E-09	2.85E-09	1.57E-09	2.75E-08	7.62E-10	1.02E-08	1.27E-09	1.27E-09	6.28E-10	1.41E-08
2654	258015.77	4086036.44	9.08E-09	1.21E-07	1.79E-08	1.79E-08	1.00E-08	1.76E-07	1.38E-09	1.85E-08	2.80E-09	2.80E-09	1.54E-09	2.70E-08	7.49E-10	1.00E-08	1.25E-09	1.25E-09	6.17E-10	1.39E-08
2655	258040.06	4086035.36	8.92E-09	1.19E-07	1.76E-08	1.76E-08	9.83E-09	1.73E-07	1.35E-09	1.82E-08	2.75E-09	2.75E-09	1.51E-09	2.65E-08	7.35E-10	9.82E-09	1.22E-09	1.22E-09	6.06E-10	1.36E-08
2656	258064.34	4086034.28	8.76E-09	1.17E-07	1.73E-08	1.73E-08	9.65E-09	1.70E-07	1.33E-09	1.78E-08	2.70E-09	2.70E-09	1.49E-09	2.60E-08	7.22E-10	9.64E-09	1.20E-09	1.20E-09	5.95E-10	1.34E-08
2657	258088.62	4086033.21	8.58E-09	1.15E-07	1.70E-08	1.70E-08	9.46E-09	1.67E-07	1.30E-09	1.75E-08	2.65E-09	2.65E-09	1.46E-09	2.55E-08	7.08E-10	9.45E-09	1.18E-09	1.18E-09	5.83E-10	1.31E-08
2658	258112.9	4086032.13	8.40E-09	1.12E-07	1.66E-08	1.66E-08	9.25E-09	1.63E-07	1.27E-09	1.71E-08	2.59E-09	2.59E-09	1.42E-09	2.50E-08	6.92E-10	9.25E-09	1.15E-09	1.15E-09	5.71E-10	1.28E-08
2659	258137.18	4086031.06	8.20E-09	1.10E-07	1.62E-08	1.62E-08	9.04E-09	1.59E-07	1.24E-09	1.67E-08	2.53E-09	2.53E-09	1.39E-09	2.44E-08	6.76E-10	9.03E-09	1.13E-09	1.13E-09	5.57E-10	1.25E-08
2660	258161.46	4086029.98	7.99E-09	1.07E-07	1.58E-08	1.58E-08	8.81E-09	1.55E-07	1.21E-09	1.63E-08	2.47E-09	2.47E-09	1.36E-09	2.38E-08	6.59E-10	8.80E-09	1.10E-09	1.10E-09	5.43E-10	1.22E-08
2661	258185.75	4086028.91	7.78E-09	1.04E-07	1.54E-08	1.54E-08	8.57E-09	1.51E-07	1.18E-09	1.58E-08	2.40E-09	2.40E-09	1.32E-09	2.31E-08	6.41E-10	8.57E-09	1.07E-09	1.07E-09	5.29E-10	1.19E-08
2662	258210.03	4086027.83	7.57E-09	1.01E-07	1.50E-08	1.50E-08	8.34E-09	1.47E-07	1.15E-09	1.54E-08	2.33E-09	2.33E-09	1.28E-09	2.25E-08	6.24E-10	8.33E-09	1.04E-09	1.04E-09	5.14E-10	1.15E-08
2663	258234.31	4086026.76	7.35E-09	9.82E-08	1.45E-08	1.45E-08	8.10E-09	1.43E-07	1.12E-09	1.50E-08	2.27E-09	2.27E-09	1.25E-09	2.19E-08	6.06E-10	8.09E-09	1.01E-09	1.01E-09	4.99E-10	1.12E-08
2664	258258.59	4086025.68	7.14E-09	9.54E-08	1.41E-08	1.41E-08	7.86E-09	1.39E-07	1.08E-09	1.45E-08	2.20E-09	2.20E-09	1.21E-09	2.12E-08	5.88E-10	7.86E-09	9.80E-10	9.80E-10	4.85E-10	1.09E-08
2665	258282.87	4086024.61	6.93E-09	9.26E-08	1.37E-08	1.37E-08	7.63E-09	1.35E-07	1.05E-09	1.41E-08	2.14E-09	2.14E-09	1.18E-09	2.06E-08	5.71E-10	7.63E-09	9.51E-10	9.51E-10	4.71E-10	1.06E-08
2666	258307.16	4086023.53	6.72E-09	8.98E-08	1.33E-08	1.33E-08	7.41E-09	1.31E-07	1.02E-09	1.37E-08	2.07E-09	2.07E-09	1.14E-09	2.00E-08	5.54E-10	7.40E-09	9.23E-10	9.23E-10	4.57E-10	1.03E-08
2667	258331.44	4086022.45	6.52E-09	8.71E-08	1.29E-08	1.29E-08	7.18E-09	1.27E-07	9.90E-10	1.33E-08	2.01E-09	2.01E-09	1.11E-09	1.94E-08	5.37E-10	7.18E-09	8.95E-10	8.95E-10	4.43E-10	9.95E-09
2668	258355.72	4086021.38	6.32E-09	8.44E-08	1.25E-08	1.25E-08	6.97E-09	1.23E-07	9.60E-10	1.29E-08	1.95E-09	1.95E-09	1.07E-09	1.88E-08	5.21E-10	6.96E-09	8.68E-10	8.68E-10	4.30E-10	9.65E-09
2669	258380	4086020.3	6.13E-09	8.19E-08	1.21E-08	1.21E-08	6.75E-09	1.19E-07	9.30E-10	1.25E-08	1.89E-09	1.89E-09	1.04E-09	1.82E-08	5.05E-10	6.75E-09	8.41E-10	8.41E-10	4.16E-10	9.35E-09
2670	258404.28	4086019.23	5.94E-09	7.94E-08	1.17E-08	1.17E-08	6.55E-09	1.15E-07	9.02E-10	1.21E-08	1.83E-09	1.83E-09	1.01E-09	1.77E-08	4.90E-10	6.54E-09	8.16E-10	8.16E-10	4.04E-10	9.07E-09
2671	257589.14	4086246.23	9.05E-09	1.21E-07	1.79E-08	1.79E-08	9.97E-09	1.76E-07	1.37E-09	1.84E-08	2.79E-09	2.79E-09	1.53E-09	2.69E-08	7.46E-10	9.96E-09	1.24E-09	1.24E-09	6.15E-10	1.38E-08
2672	257566.45	4086237.94	9.24E-09	1.23E-07	1.83E-08	1.83E-08	1.02E-08	1.79E-07	1.40E-09	1.88E-08	2.85E-09	2.85E-09	1.57E-09	2.75E-08	7.61E-10	1.02E-08	1.27E-09	1.27E-09	6.28E-10	1.41E-08
2673	257543.75	4086229.65	9.41E-09	1.26E-07	1.86E-08	1.86E-08	1.04E-08	1.83E-07	1.43E-09	1.92E-08	2.90E-09	2.90E-09	1.60E-09	2.80E-08	7.76E-10	1.04E-08	1.29E-09	1.29E-09	6.40E-10	1.44E-08
2674	257521.06	4086221.36	9.58E-09	1.28E-07	1.89E-08	1.89E-08	1.06E-08	1.86E-07	1.45E-09	1.95E-08	2.96E-09	2.96E-09	1.63E-09	2.85E-08	7.90E-10	1.06E-08	1.32E-09	1.32E-09	6.51E-10	1.46E-08
2675	257498.37	4086213.07	9.75E-09	1.30E-07	1.93E-08	1.93E-08	1.07E-08	1.89E-07	1.48E-09	1.98E-08	3.01E-09	3.01E-09	1.65E-09	2.90E-08	8.03E-10	1.07E-08	1.34E-09	1.34E-09	6.62E-10	1.49E-08
2676	257475.68	4086204.78	9.90E-09	1.32E-07	1.96E-08	1.96E-08	1.09E-08	1.92E-07	1.50E-09	2.01E-08	3.06E-09	3.06E-09	1.68E-09	2.94E-08	8.16E-10	1.09E-08	1.36E-09	1.36E-09	6.73E-10	1.51E-08
2677	257452.98	4086196.49	1.00E-08	1.34E-07	1.99E-08	1.99E-08	1.11E-08	1.95E-07	1.52E-09	2.04E-08	3.10E-09	3.10E-09	1.70E-09	2.99E-08	8.28E-10	1.11E-08	1.38E-09	1.38E-09	6.83E-10	1.53E-08
2678	257430.29	4086188.21	1.02E-08	1.36E-07	2.01E-08	2.01E-08	1.12E-08	1.98E-07	1.55E-09	2.07E-08	3.14E-09	3.14E-09	1.73E-09	3.03E-08	8.40E-10	1.12E-08	1.40E-09	1.40E-09	6.92E-10	1.55E-08
2679	257407.6	4086179.92	1.03E-08	1.38E-07	2.04E-08	2.04E-08	1.14E-08	2.00E-07	1.57E-09	2.10E-08	3.18E-09	3.18E-09	1.75E-09	3.07E-08	8.50E-10	1.14E-08	1.42E-09	1.42E-09	7.01E-10	1.57E-08
2680	257384.91	4086171.63	1.04E-08	1.39E-07	2.06E-08	2.06E-08	1.15E-08	2.03E-07	1.58E-09	2.12E-08	3.22E-09	3.22E-09	1.77E-09	3.10E-08	8.60E-10	1.15E-08	1.43E-09	1.43E-09	7.09E-10	1.59E-08
2681	257362.21	4086163.34	1.05E-08	1.41E-07	2.08E-08	2.08E-08	1.16E-08	2.05E-07	1.60E-09	2.15E-08	3.25E-09	3.25E-09	1.79E-09	3.13E-08	8.69E-10	1.16E-08	1.45E-09	1.45E-09	7.16E-10	1.61E-08
2682	257339.52	4086155.05	1.07E-08	1.42E-07	2.11E-08	2.11E-08	1.17E-08	2.07E-07	1.62E-09	2.17E-08	3.29E-09	3.29E-09	1.81E-09	3.17E-08	8.78E-10	1.17E-08	1.46E-09	1.46E-09	7.24E-10	1.63E-08
2683	257316.83	4086146.76	1.08E-08	1.44E-07	2.13E-08	2.13E-08	1.19E-08	2.09E-07	1.64E-09	2.19E-08	3.33E-09	3.33E-09	1.83E-09	3.21E-08	8.89E-10	1.19E-08	1.48E-09	1.48E-09	7.33E-10	1.65E-08
2684	257294.14	4086138.47	1.09E-08	1.46E-07	2.15E-08	2.15E-08	1.20E-08	2.11E-07	1.65E-09	2.22E-08	3.36E-09	3.36E-09	1.85E-09	3.24E-08	8.98E-10	1.20E-08	1.50E-09	1.50E-09	7.40E-10	1.66E-08
2685	257271.44	4086130.18	1.10E-08	1.47E-07	2.17E-08	2.17E-08	1.21E-08	2.14E-07	1.67E-09	2.24E-08	3.39E-09	3.39E-09	1.87E-09	3.27E-08	9.07E-10	1.21E-08	1.51E-09	1.51E-09	7.47E-10	1.68E-08
2686	257248.75	4086121.89	1.11E-08	1.48E-07	2.20E-08	2.20E-08	1.22E-08	2.16E-07	1.69E-09	2.26E-08	3.43E-09	3.43E-09	1.88E-09	3.30E-08	9.16E-10	1.22E-08	1.52E-09	1.52E-09	7.55E-10	1.70E-08
2687	257226.06	4086113.6	1.12E-08	1.50E-07	2.22E-08	2.22E-08	1.24E-08	2.18E-07	1.70E-09	2.28E-08	3.46E-09	3.46E-09	1.90E-09	3.34E-08	9.25E-10	1.24E-08	1.54E-09	1.54E-09	7.62E-10	1.71E-08
2688	257203.37	4086105.31	1.13E-08	1.51E-07	2.24E-08	2.24E-08	1.25E-08	2.20E-07	1.72E-09	2.30E-08	3.49E-09	3.49E-09	1.92E-09	3.37E-08	9.34E-10	1.25E-08	1.55E-09	1.55E-09	7.70E-10	1.73E-08
2689	257180.67	4086097.02	1.14E-08	1.53E-07	2.26E-08	2.26E-08	1.26E-08	2.22E-07	1.73E-09	2.33E-08	3.53E-09	3.53E-09	1.94E-09	3.40E-08	9.42E-10	1.26E-08	1.57E-09	1.57E-09	7.77E-10	1.74E-08
2690	257157.98	4086088.73	1.15E-08	1.54E-07	2.28E-08	2.28E-08	1.27E-08	2.24E-07	1.75E-09	2.34E-08	3.55E-09	3.55E-09	1.95E-09	3.43E-08	9.50E-10	1.27E-08	1.58E-09	1.58E-09	7.83E-10	1.76E-08
2691	257135.29	4086080.44	1.16E-08	1.55E-07	2.29E-08	2.29E-08	1.28E-08	2.25E-07	1.76E-09	2.36E-08	3.58E-09	3.58E-09	1.97E-09	3.45E-08	9.56E-10	1.28E-08	1.59E-09	1.59E-09	7.88E-10	1.77E-08
2692	257112.6	4086072.15	1.16E-08	1.56E-07	2.30E-08	2.30E-08	1.28E-08	2.26E-07	1.77E-09	2.37E-08	3.59E-09	3.59E-09	1.98E-09	3.46E-08	9.60E-10	1.28E-08	1.60E-09	1.60E-09	7.91E-10	1.78E-08
2693	257089.9	4086063.86	1.17E-08	1.56E-07	2.31E-08	2.31E-08	1.29E-08	2.27E-07	1.77E-09	2.37E-08	3.60E-09	3.60E-09	1.98E-09	3.47E-08	9.62E-10	1.28E-08	1.60E-09	1.60E-09	7.93E-10	1.78E-08
2694	257067.21	4086055.57	1.17E-08	1.56E-07	2.31E-08	2.31E-08	1.29E-08	2.27E-07	1.77E-09	2.38E-08	3.60E-09	3.60E-09	1.98E-09	3.47E-08	9.62E-10	1.29E-08	1.60E-09	1.60E-09	7.93E-10	1.78E-08
2695	257044.52	4086047.28	1.17E-08	1.56E-07	2.31E-08	2.31E-08	1.29E-08	2.26E-07	1.77E-09	2.37E-08	3.60E-09	3.60E-09	1.98E-09	3.47E-08	9.61E-10	1.28E-08	1.60E-09	1.60E-09	7.93E-10	1.78E-08
2696	257021.83	4086038.99	1.16E-08	1.55E-07	2.30E-08	2.30E-08	1.28E-08	2.26E-07	1.77E-09	2.37E-08	3.59E-09	3.59E-09	1.97E-09	3.46E-08	9.60E-10	1.28E-08	1.60E-09	1.60E-09	7.91E-10	1.78E-08
2697	256999.13	4086030.7	1.16E-08	1.55E-07	2.29E-08	2.29E-08	1.28E-08	2.25E-07	1.76E-09	2.36E-08	3.58E-09	3.58E-09	1.97E-09	3.45E-08	9.57E-10	1.28E-08	1.59E-09	1.59E-09	7.89E-10	1.77E-08
2698	256976.44	4086022.41	1.16E-08	1.55E-07	2.29E-08	2.29E-08	1.28E-08	2.25E-07	1.76E-09	2.36E-08	3.57E-09	3.57E-09	1.97E-09	3.44E-08	9.55E-10	1.28E-08	1.59E-09	1.59E-09	7.87E-10	1.77E-08
2699	256953.75	4086014.12	1.16E-08	1.54E-07	2.28E-08	2.28E-08	1.27E-08	2.24E-07	1.75E-09	2.35E-08	3.57E-09	3.57E-09	1.96E-09	3.44E-08	9.53E-10	1.27E-08	1.59E-09	1.59E-09	7.85E-10	1.76E-08
2700	256931.06	4086005.83	1.15E-08	1.54E-07	2.28E-08	2.28E-08	1.27E-08	2.24E-07	1.75E-09	2.35E-08	3.56E-09	3.56E-09	1.96E-09	3.43E-08	9.51E-10	1.27E-08	1.58E-09	1.58E-09	7.84E-10	1.76E-08
2701	256908.36	4085997.54	1.15E-08	1.54E-07	2.27E-08	2.27E-08	1.27E-08	2.23E-07	1.75E-09	2.34E-08	3.55E-09	3.55E-09	1.95E-09	3.42E-08	9.49E-10	1.27E-08	1.58E-09	1.58E-09	7.82E-10	1.76E-08
2702	256885.67	4085989.25	1.15E-08	1.53E-07	2.27E-08	2.27E-08	1.27E-08	2.23E-07	1.74E-09	2.34E-08	3.55E-09	3.55E-09	1.95E-09	3.42E-08	9.47E-10	1.26E-08	1.58E-09	1.58E-09	7.81E-10	1.75E-08
2703	256862.98	4085980.96	1.15E-08	1.53E-07	2.27E-08	2.27E-08	1.26E-08	2.23E-07	1.74E-09	2.33E-08	3.54E-09	3.54E-09	1.95E-09	3.41E-08	9.45E-10	1.26E-08	1.57E-09	1.57E-09	7.79E-10	1.75E-08
2704	256840.29	4085972.67	1.14E-08	1.53E-07	2.26E-08	2.26E-08	1.26E-08	2.22E-07	1.74E-09	2.33E-08	3.53E-09	3.53E-09	1.94E-09	3.40E-08	9.43E-10	1.26E-08	1.57E-09	1.57E-09	7.77E-10	1.75E-08
2705	256807.49	4085942.44	1.16E-08	1.55E-07	2.29E-08	2.29E-08	1.28E-08	2.25E-07	1.76E-09	2.36E-08	3.58E-09	3.58E-09	1.97E-09	3.45E-08	9.56E-10	1.28E-08	1.59E-09	1.59E-09	7.88E-10	1.77E-08
2706	256797.38	4085920.49	1.18E-08	1.57E-07	2.33E-08	2.33E-08	1.30E-08	2.28E-07	1.79E-09	2.40E-08	3.63E-09	3.63E-09	2.00E-09	3.50E-08	9.70E-10	1.30E-08	1.62E-09	1.62E-09	8.00E-10	1.80E-08
2707	256787.28	4085898.55	1.19E-08	1.59E-07	2.36E-08	2.36E-08	1.31E-08	2.31E-07	1.81E-09	2.43E-08	3.68E-09	3.68E-09	2.02E-09	3.55E-08	9.83E-10	1.31E-08	1.64E-09	1.64E-09	8.10E-10	1.82E-08
2708	256777.17	4085876.61	1.21E-08	1.61E-07	2.38E-08	2.38E-08	1.33E-08	2.34E-07	1.83E-09	2.45E-08	3.72E-09	3.72E-09	2.04E-09	3.58E-08	9.93E-10	1.33E-08	1.65E-09	1.65E-09	8.19E-10	1.84E-08
2709	256767.07	4085854.66	1.21E-08	1.62E-07	2.40E-08	2.40E-08	1.34E-08	2.36E-07	1.84E-09	2.47E-08	3.75E-09	3.75E-09	2.06E-09	3.61E-08	1.00E-09	1.34E-08	1.67E-09	1.67E-09	8.25E-10	1.85E-08
2710	256756.96	4085832.72	1.22E-08	1.63E-07	2.41E-08	2.41E-08	1.34E-08	2.37E-07	1.85E-09	2.48E-08	3.76E-09	3.76E-09	2.07E-09	3.62E-08	1.00E-09	1.34E-08	1.67E-09	1.67E-09	8.28E-10	1.86E-08

2711	256746.86	4085810.77	1.22E-08	1.63E-07	2.41E-08	2.41E-08	1.34E-08	2.36E-07	1.85E-09	2.48E-08	3.76E-09	3.76E-09	2.07E-09	3.62E-08	1.00E-09	1.34E-08	1.67E-09	1.67E-09	8.28E-10	1.86E-08
2712	256736.75	4085788.83	1.21E-08	1.62E-07	2.39E-08	2.39E-08	1.34E-08	2.35E-07	1.84E-09	2.47E-08	3.74E-09	3.74E-09	2.06E-09	3.60E-08	9.99E-10	1.33E-08	1.66E-09	1.66E-09	8.23E-10	1.85E-08
2713	256726.65	4085766.88	1.20E-08	1.60E-07	2.37E-08	2.37E-08	1.32E-08	2.33E-07	1.82E-09	2.44E-08	3.70E-09	3.70E-09	2.03E-09	3.57E-08	9.89E-10	1.32E-08	1.65E-09	1.65E-09	8.15E-10	1.83E-08
2714	256716.54	4085744.94	1.18E-08	1.58E-07	2.33E-08	2.33E-08	1.30E-08	2.29E-07	1.79E-09	2.40E-08	3.64E-09	3.64E-09	2.00E-09	3.51E-08	9.73E-10	1.30E-08	1.62E-09	1.62E-09	8.02E-10	1.80E-08
2715	256706.44	4085722.99	1.16E-08	1.54E-07	2.28E-08	2.28E-08	1.27E-08	2.24E-07	1.75E-09	2.35E-08	3.57E-09	3.57E-09	1.96E-09	3.44E-08	9.53E-10	1.27E-08	1.59E-09	1.59E-09	7.86E-10	1.76E-08
2716	256696.33	4085701.05	1.13E-08	1.51E-07	2.23E-08	2.23E-08	1.24E-08	2.19E-07	1.71E-09	2.29E-08	3.48E-09	3.48E-09	1.91E-09	3.35E-08	9.29E-10	1.24E-08	1.55E-09	1.55E-09	7.66E-10	1.72E-08
2717	256686.23	4085679.11	1.09E-08	1.46E-07	2.16E-08	2.16E-08	1.20E-08	2.12E-07	1.66E-09	2.22E-08	3.37E-09	3.37E-09	1.85E-09	3.24E-08	8.99E-10	1.20E-08	1.50E-09	1.50E-09	7.41E-10	1.66E-08
2718	256676.12	4085657.16	1.05E-08	1.40E-07	2.07E-08	2.07E-08	1.16E-08	2.04E-07	1.59E-09	2.13E-08	3.24E-09	3.24E-09	1.78E-09	3.12E-08	8.64E-10	1.15E-08	1.44E-09	1.44E-09	7.13E-10	1.60E-08
2719	256666.02	4085635.22	1.00E-08	1.34E-07	1.98E-08	1.98E-08	1.10E-08	1.95E-07	1.52E-09	2.04E-08	3.09E-09	3.09E-09	1.70E-09	2.98E-08	8.26E-10	1.10E-08	1.38E-09	1.38E-09	6.81E-10	1.53E-08
2720	256655.91	4085613.27	9.52E-09	1.27E-07	1.88E-08	1.88E-08	1.05E-08	1.85E-07	1.44E-09	1.94E-08	2.94E-09	2.94E-09	1.61E-09	2.83E-08	7.85E-10	1.05E-08	1.31E-09	1.31E-09	6.47E-10	1.45E-08
2721	256645.81	4085591.33	8.99E-09	1.20E-07	1.78E-08	1.78E-08	9.91E-09	1.75E-07	1.36E-09	1.83E-08	2.77E-09	2.77E-09	1.53E-09	2.67E-08	7.41E-10	9.90E-09	1.23E-09	1.23E-09	6.11E-10	1.37E-08
2722	256635.7	4085569.38	8.45E-09	1.13E-07	1.67E-08	1.67E-08	9.31E-09	1.64E-07	1.28E-09	1.72E-08	2.61E-09	2.61E-09	1.43E-09	2.51E-08	6.97E-10	9.31E-09	1.16E-09	1.16E-09	5.74E-10	1.29E-08
2723	256625.6	4085547.44	7.92E-09	1.06E-07	1.57E-08	1.57E-08	8.73E-09	1.54E-07	1.20E-09	1.61E-08	2.44E-09	2.44E-09	1.34E-09	2.36E-08	6.53E-10	8.72E-09	1.09E-09	1.09E-09	5.38E-10	1.21E-08
2724	256615.49	4085525.5	7.41E-09	9.90E-08	1.46E-08	1.46E-08	8.16E-09	1.44E-07	1.12E-09	1.51E-08	2.29E-09	2.29E-09	1.26E-09	2.20E-08	6.11E-10	8.16E-09	1.02E-09	1.02E-09	5.04E-10	1.13E-08
2725	256605.39	4085503.55	6.93E-09	9.26E-08	1.37E-08	1.37E-08	7.64E-09	1.35E-07	1.05E-09	1.41E-08	2.14E-09	2.14E-09	1.18E-09	2.06E-08	5.72E-10	7.63E-09	9.52E-10	9.52E-10	4.71E-10	1.06E-08
2726	256595.28	4085481.61	6.50E-09	8.69E-08	1.29E-08	1.29E-08	7.17E-09	1.26E-07	9.87E-10	1.32E-08	2.01E-09	2.01E-09	1.10E-09	1.93E-08	5.36E-10	7.16E-09	8.93E-10	8.93E-10	4.42E-10	9.92E-09
2727	256585.18	4085459.66	6.12E-09	8.18E-08	1.21E-08	1.21E-08	6.75E-09	1.19E-07	9.29E-10	1.25E-08	1.89E-09	1.89E-09	1.04E-09	1.82E-08	5.05E-10	6.74E-09	8.41E-10	8.41E-10	4.16E-10	9.35E-09
2728	256575.07	4085437.72	5.80E-09	7.75E-08	1.15E-08	1.15E-08	6.39E-09	1.13E-07	8.80E-10	1.18E-08	1.79E-09	1.79E-09	9.84E-10	1.72E-08	4.78E-10	6.38E-09	7.96E-10	7.96E-10	3.94E-10	8.85E-09
2729	256564.97	4085415.77	5.52E-09	7.38E-08	1.09E-08	1.09E-08	6.09E-09	1.07E-07	8.38E-10	1.12E-08	1.70E-09	1.70E-09	9.37E-10	1.64E-08	4.55E-10	6.08E-09	7.58E-10	7.58E-10	3.75E-10	8.43E-09
2730	256554.86	4085393.83	5.30E-09	7.07E-08	1.05E-08	1.05E-08	5.83E-09	1.03E-07	8.04E-10	1.08E-08	1.63E-09	1.63E-09	8.98E-10	1.57E-08	4.36E-10	5.83E-09	7.27E-10	7.27E-10	3.60E-10	8.08E-09
2731	256544.76	4085371.88	5.10E-09	6.81E-08	1.01E-08	1.01E-08	5.62E-09	9.90E-08	7.74E-10	1.04E-08	1.57E-09	1.57E-09	8.65E-10	1.52E-08	4.21E-10	5.62E-09	7.00E-10	7.00E-10	3.47E-10	7.79E-09
2732	256534.65	4085349.94	4.93E-09	6.59E-08	9.75E-09	9.75E-09	5.44E-09	9.58E-08	7.49E-10	1.00E-08	1.52E-09	1.52E-09	8.37E-10	1.47E-08	4.07E-10	5.43E-09	6.77E-10	6.77E-10	3.35E-10	7.53E-09
2733	256524.54	4085328	4.79E-09	6.39E-08	9.46E-09	9.46E-09	5.27E-09	9.29E-08	7.27E-10	9.74E-09	1.48E-09	1.48E-09	8.12E-10	1.42E-08	3.95E-10	5.27E-09	6.57E-10	6.57E-10	3.25E-10	7.31E-09
2734	256514.44	4085306.05	4.65E-09	6.22E-08	9.20E-09	9.20E-09	5.13E-09	9.03E-08	7.06E-10	9.47E-09	1.44E-09	1.44E-09	7.90E-10	1.38E-08	3.84E-10	5.12E-09	6.39E-10	6.39E-10	3.16E-10	7.10E-09
2735	256504.33	4085284.11	4.53E-09	6.05E-08	8.95E-09	8.95E-09	4.99E-09	8.79E-08	6.87E-10	9.22E-09	1.40E-09	1.40E-09	7.68E-10	1.35E-08	3.73E-10	4.99E-09	6.22E-10	6.22E-10	3.08E-10	6.91E-09
2736	256494.23	4085262.16	4.41E-09	5.90E-08	8.72E-09	8.72E-09	4.86E-09	8.57E-08	6.70E-10	8.98E-09	1.36E-09	1.36E-09	7.49E-10	1.31E-08	3.64E-10	4.86E-09	6.06E-10	6.06E-10	3.00E-10	6.74E-09
2737	256484.12	4085240.22	4.31E-09	5.75E-08	8.51E-09	8.51E-09	4.75E-09	8.36E-08	6.54E-10	8.76E-09	1.33E-09	1.33E-09	7.31E-10	1.28E-08	3.55E-10	4.74E-09	5.91E-10	5.91E-10	2.93E-10	6.57E-09
2738	256474.02	4085218.27	4.21E-09	5.63E-08	8.33E-09	8.33E-09	4.64E-09	8.18E-08	6.39E-10	8.57E-09	1.30E-09	1.30E-09	7.15E-10	1.25E-08	3.47E-10	4.64E-09	5.78E-10	5.78E-10	2.86E-10	6.43E-09
2739	257611.83	4086254.52	8.85E-09	1.18E-07	1.75E-08	1.75E-08	9.75E-09	1.72E-07	1.34E-09	1.80E-08	2.73E-09	2.73E-09	1.50E-09	2.63E-08	7.29E-10	9.74E-09	1.21E-09	1.21E-09	6.01E-10	1.35E-08
2740	257636.11	4086253.45	8.75E-09	1.17E-07	1.73E-08	1.73E-08	9.64E-09	1.70E-07	1.33E-09	1.78E-08	2.70E-09	2.70E-09	1.48E-09	2.60E-08	7.21E-10	9.63E-09	1.20E-09	1.20E-09	5.95E-10	1.34E-08
2741	257660.4	4086252.37	8.64E-09	1.15E-07	1.71E-08	1.71E-08	9.52E-09	1.68E-07	1.31E-09	1.76E-08	2.67E-09	2.67E-09	1.47E-09	2.57E-08	7.12E-10	9.51E-09	1.19E-09	1.19E-09	5.87E-10	1.32E-08
2742	257684.68	4086251.3	8.52E-09	1.14E-07	1.68E-08	1.68E-08	9.39E-09	1.65E-07	1.29E-09	1.73E-08	2.63E-09	2.63E-09	1.45E-09	2.53E-08	7.02E-10	9.38E-09	1.17E-09	1.17E-09	5.79E-10	1.30E-08
2743	257708.96	4086250.22	8.39E-09	1.12E-07	1.66E-08	1.66E-08	9.25E-09	1.63E-07	1.27E-09	1.71E-08	2.59E-09	2.59E-09	1.42E-09	2.50E-08	6.92E-10	9.24E-09	1.15E-09	1.15E-09	5.70E-10	1.28E-08
2744	257733.24	4086249.15	8.26E-09	1.10E-07	1.63E-08	1.63E-08	9.10E-09	1.60E-07	1.25E-09	1.68E-08	2.55E-09	2.55E-09	1.40E-09	2.46E-08	6.81E-10	9.09E-09	1.13E-09	1.13E-09	5.61E-10	1.26E-08
2745	257757.52	4086248.07	8.12E-09	1.09E-07	1.61E-08	1.61E-08	8.95E-09	1.58E-07	1.23E-09	1.65E-08	2.51E-09	2.51E-09	1.38E-09	2.42E-08	6.70E-10	8.94E-09	1.12E-09	1.12E-09	5.52E-10	1.24E-08
2746	257781.8	4086246.99	7.98E-09	1.07E-07	1.58E-08	1.58E-08	8.80E-09	1.55E-07	1.21E-09	1.62E-08	2.46E-09	2.46E-09	1.35E-09	2.37E-08	6.58E-10	8.79E-09	1.10E-09	1.10E-09	5.43E-10	1.22E-08
2747	257806.09	4086245.92	7.84E-09	1.05E-07	1.55E-08	1.55E-08	8.64E-09	1.52E-07	1.19E-09	1.60E-08	2.42E-09	2.42E-09	1.33E-09	2.33E-08	6.46E-10	8.63E-09	1.08E-09	1.08E-09	5.33E-10	1.20E-08
2748	257830.37	4086244.84	7.69E-09	1.03E-07	1.52E-08	1.52E-08	8.48E-09	1.49E-07	1.17E-09	1.57E-08	2.37E-09	2.37E-09	1.31E-09	2.29E-08	6.34E-10	8.47E-09	1.06E-09	1.06E-09	5.23E-10	1.17E-08
2749	257854.65	4086243.77	7.56E-09	1.01E-07	1.49E-08	1.49E-08	8.33E-09	1.47E-07	1.15E-09	1.54E-08	2.33E-09	2.33E-09	1.28E-09	2.25E-08	6.23E-10	8.32E-09	1.04E-09	1.04E-09	5.14E-10	1.15E-08
2750	257878.93	4086242.69	7.42E-09	9.91E-08	1.47E-08	1.47E-08	8.17E-09	1.44E-07	1.13E-09	1.51E-08	2.29E-09	2.29E-09	1.26E-09	2.21E-08	6.12E-10	8.17E-09	1.02E-09	1.02E-09	5.04E-10	1.13E-08
2751	257903.21	4086241.62	7.28E-09	9.73E-08	1.44E-08	1.44E-08	8.03E-09	1.41E-07	1.11E-09	1.48E-08	2.25E-09	2.25E-09	1.24E-09	2.17E-08	6.00E-10	8.02E-09	1.00E-09	1.00E-09	4.95E-10	1.11E-08
2752	257927.5	4086240.54	7.16E-09	9.56E-08	1.41E-08	1.41E-08	7.89E-09	1.39E-07	1.09E-09	1.46E-08	2.21E-09	2.21E-09	1.21E-09	2.13E-08	5.90E-10	7.88E-09	9.83E-10	9.83E-10	4.86E-10	1.09E-08
2753	257951.78	4086239.47	7.03E-09	9.39E-08	1.39E-08	1.39E-08	7.75E-09	1.36E-07	1.07E-09	1.43E-08	2.17E-09	2.17E-09	1.19E-09	2.09E-08	5.80E-10	7.74E-09	9.65E-10	9.65E-10	4.78E-10	1.07E-08
2754	257976.06	4086238.39	6.91E-09	9.23E-08	1.37E-08	1.37E-08	7.61E-09	1.34E-07	1.05E-09	1.41E-08	2.13E-09	2.13E-09	1.17E-09	2.05E-08	5.69E-10	7.61E-09	9.48E-10	9.48E-10	4.69E-10	1.05E-08
2755	258000.34	4086237.32	6.78E-09	9.06E-08	1.34E-08	1.34E-08	7.47E-09	1.32E-07	1.03E-09	1.38E-08	2.09E-09	2.09E-09	1.15E-09	2.02E-08	5.59E-10	7.47E-09	9.31E-10	9.31E-10	4.61E-10	1.04E-08
2756	258024.62	4086236.24	6.66E-09	8.90E-08	1.32E-08	1.32E-08	7.34E-09	1.29E-07	1.01E-09	1.36E-08	2.05E-09	2.05E-09	1.13E-09	1.98E-08	5.49E-10	7.33E-09	9.14E-10	9.14E-10	4.53E-10	1.02E-08
2757	258048.9	4086235.16	6.54E-09	8.73E-08	1.29E-08	1.29E-08	7.20E-09	1.27E-07	9.92E-10	1.33E-08	2.02E-09	2.02E-09	1.11E-09	1.94E-08	5.39E-10	7.20E-09	8.97E-10	8.97E-10	4.44E-10	9.97E-09
2758	258073.19	4086234.09	6.41E-09	8.56E-08	1.27E-08	1.27E-08	7.06E-09	1.24E-07	9.73E-10	1.30E-08	1.98E-09	1.98E-09	1.09E-09	1.91E-08	5.29E-10	7.06E-09	8.80E-10	8.80E-10	4.36E-10	9.78E-09
2759	258097.47	4086233.01	6.29E-09	8.40E-08	1.24E-08	1.24E-08	6.93E-09	1.22E-07	9.54E-10	1.28E-08	1.94E-09	1.94E-09	1.07E-09	1.87E-08	5.18E-10	6.92E-09	8.63E-10	8.63E-10	4.27E-10	9.60E-09
2760	258121.75	4086231.94	6.18E-09	8.26E-08	1.22E-08	1.22E-08	6.81E-09	1.20E-07	9.38E-10	1.26E-08	1.91E-09	1.91E-09	1.05E-09	1.84E-08	5.10E-10	6.81E-09	8.49E-10	8.49E-10	4.20E-10	9.43E-09
2761	258146.03	4086230.86	6.06E-09	8.10E-08	1.20E-08	1.20E-08	6.68E-09	1.18E-07	9.20E-10	1.23E-08	1.87E-09	1.87E-09	1.03E-09	1.80E-08	5.00E-10	6.68E-09	8.32E-10	8.32E-10	4.12E-10	9.25E-09
2762	258170.31	4086229.79	5.94E-09	7.93E-08	1.17E-08	1.17E-08	6.54E-09	1.15E-07	9.01E-10	1.21E-08	1.83E-09	1.83E-09	1.01E-09	1.77E-08	4.90E-10	6.54E-09	8.15E-10	8.15E-10	4.04E-10	9.06E-09
2763	258194.6	4086228.71	5.82E-09	7.77E-08	1.15E-08	1.15E-08	6.41E-09	1.13E-07	8.83E-10	1.18E-08	1.79E-09	1.79E-09	9.87E-10	1.73E-08	4.79E-10	6.40E-09	7.98E-10	7.98E-10	3.95E-10	8.87E-09
2764	258218.88	4086227.64	5.69E-09	7.60E-08	1.13E-08	1.13E-08	6.27E-09	1.11E-07	8.64E-10	1.16E-08	1.76E-09	1.76E-09	9.66E-10	1.69E-08	4.69E-10	6.27E-09	7.82E-10	7.82E-10	3.87E-10	8.69E-09
2765	258243.16	4086226.56	5.57E-09	7.44E-08	1.10E-08	1.10E-08	6.14E-09	1.08E-07	8.45E-10	1.13E-08	1.72E-09	1.72E-09	9.45E-10	1.66E-08	4.59E-10	6.13E-09	7.65E-10	7.65E-10	3.78E-10	8.50E-09
2766	258267.44	4086225.49	5.44E-09	7.27E-08	1.08E-08	1.08E-08	6.00E-09	1.06E-07	8.26E-10	1.11E-08	1.68E-09	1.68E-09	9.24E-10	1.62E-08	4.49E-10	5.99E-09	7.47E-10	7.47E-10	3.70E-10	8.31E-09
2767	258291.72	4086224.41	5.32E-09	7.10E-08	1.05E-08	1.05E-08	5.86E-09	1.03E-07	8.07E-10	1.08E-08	1.64E-09	1.64E-09	9.02E-10	1.58E-08	4.38E-10	5.85E-09	7.30E-10	7.30E-10	3.61E-10	8.11E-09
2768	258316	4086223.33	5.19E-09	6.93E-08	1.03E-08	1.03E-08	5.72E-09	1.01E-07	7.87E-10	1.06E-08	1.60E-09	1.60E-09	8.80E-10	1.54E-08	4.28E-10	5.71E-09	7.12E-10	7.12E-10	3.53E-10	7.92E-09
2769	258340.29	4086222.26	5.06E-09	6.76E-08	1.00E-08	1.00E-08	5.57E-09	9.82E-08	7.68E-10	1.03E-08	1.56E-09	1.56E-09	8.58E-10	1.50E-08	4.17E-10	5.57E-09	6.95E-10	6.95E-10	3.44E-10	7.72E-09
2770	258364.57	4086221.18	4.93E-09	6.59E-08	9.75E-09	9.75E-09	5.44E-09	9.58E-08	7.49E-10	1.00E-08	1.52E-09	1.52E-09	8.37E-10	1.47E-08	4.07E-10	5.43E-09	6.77E-10	6.77E-10	3.35E-10	7.53E-09
2771	258388.85	4086220.11	4.81E-09	6.42E-08	9.50E-09	9.50E-09	5.30E-09	9.33E-08	7.30E-10	9.78E-09	1.48E-09	1.48E-09	8.16E-10	1.43E-08	3.96E-10	5.29E-09	6.60E-10	6.60E-10	3.27E-10	7.34E-09
2772	258413.13	4086219.03	4.68E-09	6.25E-08	9.25E-09	9.25E-09	5.16E-09	9.09E-08	7.11E-10	9.53E-09	1.44E-09	1.44E-09	7.94E-10	1.39E-08	3.86E-10	5.16E-09	6.43E-10	6.43E-10	3.18E-10	7.14E-09
2773	257598.33	4086446.16	6.90E-09	9.22E-08	1.36E-08	1.36E-08	7.60E-09	1.34E-07	1.05E-09	1.40E-08	2.13E-09	2.13E-09	1.17E-09	2.05E-08	5.69E-10	7.60E-09	9.47E-10	9.47E-10	4.69E-10	1.05E-08
2774	257575.98	4086438	7.06E-09	9.43E-08	1.39E-08	1.39E-08	7.77E-09	1.37E-07	1.07E-09	1.44E-08	2.18E-09	2.18E-09	1.20E-09	2.10E-08	5.82E-10	7.77E-09	9.69E-10	9.69E-10	4.80E-10	1.08E-08
2775	257553.64	4086429.83	7.21E-09	9.63E-08	1.42E-08	1.42E-08	7.94E-09	1.40E-07	1.09E-09	1.47E-08	2.22E-09	2.22E-09	1.22E-09	2.14E-08	5.94E-10	7.94E-09	9.90E-10	9.90E-10	4.90E-10	1.10E-08
2776	257531.29	4086421.67	7.36E-09	9.82E-08	1.45E-08	1.45E-08	8.10E-09	1.43E-07	1.12E-09	1.50E-08	2.27E-09	2.27E-09	1.25E-09	2.19E-08	6.06E-10	8.10E-09	1.01E-09	1.01E-09	5.00E-10	1.12E-08
2777	257508.94	4086413.51	7.50E-09	1.00E-07	1.48E-08	1.48E-08	8.26E-09	1.46E-07	1.14E-09	1.53E-08	2.31E-09	2.31E-09	1.27E-09	2.23E-08	6.18E-10	8.26E-09	1.03E-09	1.03E-09	5.09E-10	1.14E-08
2778	257486.59	4086405.34	7.64E-09	1.02E-07	1.51E-08	1.51E-08	8.41E-09	1.48E-07	1.16E-09	1.55E-08	2.36E-09	2.36E-09	1.30E-09	2.27E-08	6.29E-10	8.41E-09	1.05E-09	1.05E-09	5.19E-10	1.17E-08
2779	257464.24	4086397.18	7.77E-09	1.04E-07	1.53E-08	1.53E-08	8.56E-09	1.51E-07	1.18E-09	1.58E-08	2.40E-09	2.40E-09	1.32E-09	2.31E-08	6.40E-10	8.55E-09	1.07E-09	1.07E-09	5.28E-10	1.19E-08
2780	257441.89	4086389.01	7.89E-09	1.05E-07	1.56E-08	1.56E-08	8.69E-09	1.53E-07	1.20E-09	1.61E-08	2.43E-09	2.43E-09	1.34E-09	2.35E-08	6.50E-10	8.69E-09	1.08E-09	1.08E-09	5.36E-10	1.20E-08
2781	257419.54	4086380.85	8.01E-09	1.07E-07	1.58E-08	1.58E-08	8.82E-09	1.55E-07	1.22E-09	1.63E-08	2.47E-09	2.47E-09	1.36E-09	2.38E-08	6.60E-10	8.82E-09	1.10E-09	1.10E-09	5.44E-10	1.22E-08
2782	257397.19	4086372.69	8.11E-09	1.08E-07	1.60E-08	1.60E-08	8.94E-09	1.58E-07	1.23E-09	1.65E-08	2.50E-09	2.50E-09	1.38E-09	2.41E-08	6.69E-10	8.93E-09	1.11E-09	1.11E-09	5.51E-10	1.24E-08
2783	257374.85	4086364.52	8.21E-09	1.10E-07	1.62E-08	1.62E-08	9.05E-09	1.59E-07	1.25E-09	1.67E-08	2.53E-09	2.53E-09	1.39E-09	2.44E-08	6.77E-10	9.05E-09	1.13E-09	1.13E-09	5.58E-10	1.25E-08
2784	257352.5	4086356.36	8.31E-09	1.11E-07	1.64E-08	1.64E-08	9.16E-09	1.61E-07	1.26E-09	1.69E-08	2.56E-09	2.56E-09	1.41E-09	2.47E-08	6.85E-10	9.15E-09	1.14E-09	1.14E-09	5.65E-10	1.27E-08
2785	257330.15	4086348.19	8.40E-09	1.12E-07	1.66E-08	1.66E-08	9.25E-09	1.63E-07	1.27E-09	1.71E-08	2.59E-09	2.59E-09	1.42E-09	2.50E-08	6.92E-10	9.24E-09	1.15E-09	1.15E-09	5.71E-10	1.28E-08
2786	257307.8	4086340.03	8.48E-09	1.13E-07	1.68E-08	1.68E-08	9.34E-09	1.65E-07	1.29E-09	1.73E-08	2.62E-09	2.62E-09	1.44E-09	2.52E-08	6.99E-10	9.34E-09	1.16E-09	1.16E-09	5.76E-10	1.29E-08
2787	257285.45	4086331.87	8.56E-09	1.14E-07	1.69E-08	1.69E-08	9.43E-09	1.66E-07	1.30E-09	1.74E-08	2.64E-09	2.64E-09	1.45E-09	2.55E-08	7.06E-10	9.43E-09	1.18E-09	1.18E-09	5.82E-10	1.31E-08
2788	257263.1	4086323.7	8.64E-09	1.15E-07	1.71E-08	1.71E-08	9.52E-09	1.68E-07	1.31E-09	1.76E-08	2.67E-09	2.67E-09	1.47E-09	2.57E-08	7.12E-10	9.51E-09	1.19E-09	1.19E-09	5.87E-10	1.32E-08
2789	257240.75	4086315.54	8.72E-09	1.16E-07	1.72E-08	1.72E-08	9.61E-09	1.69E-07	1.32E-09	1.77E-08	2.69E-09	2.69E-09	1.48E-09	2.59E-08	7.19E-10	9.60E-09	1.20E-09	1.20E-09	5.92E-10	1.33E-08
2790	257218.4	4086307.37	8.80E-09	1.18E-07	1.74E-08	1.74E-08	9.69E-09	1.71E-07	1.34E-09	1.79E-08	2.71E-09	2.71E-09	1.49E-09	2.62E-08	7.25E-10	9.69E-09	1.21E-09	1.21E-09	5.98E-10	1.34E-08
2791	257196.06	4086299.21	8.88E-09	1.19E-07	1.75E-08	1.75E-08	9.78E-09	1.72E-07	1.35E-09	1.81E-08	2.74E-09	2.74E-09	1.51E-09	2.64E-08	7.32E-10	9.77E-09	1.22E-09	1.22E-09	6.03E-10	1.35E-08
2792	257173.71	4086291.04	8.96E-09	1.20E-07	1.77E-08	1.77E-08	9.87E-09	1.74E-07	1.36E-09	1.82E-08	2.76E-09	2.76E-09	1.52E-09	2.66E-08	7.38E-10	9.86E-09	1.23E-09	1.23E-09	6.09E-10	1.37E-08
2793	257151.36	4086282.88	9.06E-09	1.21E-07	1.79E-08	1.79E-08	9.98E-09	1.76E-07	1.37E-09	1.84E-08	2.79E-09	2.79E-09	1.54E-09	2.69E-08	7.47E-10	9.97E-09	1.24E-09	1.24E-09	6.15E-10	1.38E-08
2794	257129.01	4086274.72	9.15E-09	1.22E-07	1.81E-08	1.81E-08	1.01E-08	1.78E-07	1.39E-09	1.86E-08	2.82E-09	2.82E-09	1.55E-09	2.72E-08	7.54E-10	1.01E-08	1.26E-09	1.26E-09	6.21E-10	1.40E-08
2795	257106.66	4086266.55	9.22E-09	1.23E-07	1.82E-08	1.82E-08	1.02E-08	1.79E-07	1.40E-09	1.88E-08	2.84E-09	2.84E-09	1.56E-09	2.74E-08	7.60E-10	1.01E-08	1.27E-09	1.27E-09	6.26E-10	1.41E-08
2796	257084.31	4086258.39	9.28E-09	1.24E-07	1.83E-08	1.83E-08	1.02E-08	1.80E-07	1.41E-09	1.89E-08	2.86E-09	2.86E-09	1.57E-09	2.76E-08	7.65E-10	1.02E-08	1.27E-09	1.27E-09	6.31E-10	1.42E-08
2797	257061.96	4086250.22	9.33E-09	1.25E-07	1.84E-08	1.84E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.88E-09	2.88E-09	1.58E-09	2.77E-08	7.69E-10	1.03E-08	1.28E-09	1.28E-09	6.34E-10	1.42E-08
2798	257039.61	4086242.06	9.37E-09	1.25E-07	1.85E-08	1.85E-08	1.03E-08	1.82E-07	1.42E-09	1.91E-08	2.89E-09	2.89E-09	1.59E-09	2.79E-08	7.72E-10	1.03E-08	1.29E-09	1.29E-09	6.37E-10	1.43E-08
2799	257017.27	4086233.9	9.39E-09	1.25E-07	1.86E-08	1.86E-08	1.03E-08	1.82E-07	1.43E-09	1.91E-08	2.90E-09	2.90E-09	1.59E-09	2.79E-08	7.74E-10	1.03E-08	1.29E-09	1.29E-09	6.38E-10	1.43E-08
2800	256994.92	4086225.73	9.40E-09	1.26E-07	1.86E-08	1.86E-08	1.04E-08	1.83E-07	1.43E-09	1.91E-08	2.90E-09	2.90E-09	1.60E-09	2.80E-08	7.75E-10	1.04E-08	1.29E-09	1.29E-09	6.39E-10	1.43E-08
2801	256972.57	4086217.57	9.38E-09	1.25E-07	1.85E-08	1.85E-08	1.03E-08	1.82E-07	1.42E-09	1.91E-08	2.90E-09	2.90E-09	1.59E-09	2.79E-08	7.74E-10	1.03E-08	1.29E-09	1.29E-09	6.38E-10	1.43E-08
2802	256950.22	4086209.4	9.36E-09	1.25E-07	1.85E-08	1.85E-08	1.03E-08	1.82E-07	1.42E-09	1.91E-08	2.89E-09	2.89E-09	1.59E-09	2.78E-08	7.72E-10	1.03E-08	1.29E-09	1.29E-09	6.36E-10	1.43E-08
2803	256927.87	4086201.24	9.35E-09	1.25E-07	1.85E-08	1.85E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.89E-09	2.89E-09	1.59E-09	2.78E-08	7.71E-10	1.03E-08	1.28E-09	1.28E-09	6.35E-10	1.43E-08
2804	256905.52	4086193.08	9.34E-09	1.25E-07	1.85E-08	1.85E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.88E-09	2.88E-09	1.58E-09	2.78E-08	7.70E-10	1.03E-08	1.28E-09	1.28E-09	6.35E-10	1.43E-08
2805	256883.17	4086184.91	9.33E-09	1.25E-07	1.84E-08	1.84E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.88E-09	2.88E-09	1.58E-09	2.77E-08	7.69E-10	1.03E-08	1.28E-09	1.28E-09	6.34E-10	1.42E-08
2806	256860.83	4086176.75	9.33E-09	1.25E-07	1.84E-08	1.84E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.88E-09	2.88E-09	1.58E-09	2.77E-08	7.69E-10	1.03E-08	1.28E-09	1.28E-09	6.34E-10	1.42E-08
2807	256838.48	4086168.58	9.33E-09	1.25E-07	1.84E-08	1.84E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.88E-09	2.88E-09	1.58E-09	2.77E-08	7.69E-10	1.03E-08	1.28E-09	1.28E-09	6.34E-10	1.42E-08
2808	256816.13	4086160.42	9.33E-09	1.25E-07	1.84E-08	1.84E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.88E-09	2.88E-09	1.58E-09	2.77E-08	7.69E-10	1.03E-08	1.28E-09	1.28E-09	6.34E-10	1.42E-08
2809	256793.78	4086152.26	9.33E-09	1.25E-07	1.84E-08	1.84E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.88E-09	2.88E-09	1.58E-09	2.78E-08	7.69E-10	1.03E-08	1.28E-09	1.28E-09	6.34E-10	1.42E-08
2810	256771.43	4086144.09	9.34E-09	1.25E-07	1.85E-08	1.85E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.88E-09	2.88E-09	1.58E-09	2.78E-08	7.70E-10	1.03E-08	1.28E-09	1.28E-09	6.35E-10	1.43E-08
2811	256749.08	4086135.93	9.35E-09	1.25E-07	1.85E-08	1.85E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.88E-09	2.88E-09	1.59E-09	2.78E-08	7.70E-10	1.03E-08	1.28E-09	1.28E-09	6.35E-10	1.43E-08
2812	256726.73	4086127.76	9.35E-09	1.25E-07	1.85E-08	1.85E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.89E-09	2.89E-09	1.59E-09	2.78E-08	7.71E-10	1.03E-08	1.28E-09	1.28E-09	6.35E-10	1.43E-08
2813	256704.38	4086119.6	9.35E-09	1.25E-07	1.85E-08	1.85E-08	1.03E-08	1.82E-07	1.42E-09	1.90E-08	2.89E-09	2.89E-09	1.59E-09	2.78E-08	7.71E-10	1.03E-08	1.28E-09	1.28E-09	6.36E-10	1.43E-08
2814	256672.08	4086089.82	9.51E-09	1.27E-07	1.88E-08	1.88E-08	1.05E-08	1.85E-07	1.44E-09	1.93E-08	2.93E-09	2.93E-09	1.61E-09	2.83E-08	7.84E-10	1.05E-08	1.31E-09	1.31E-09	6.46E-10	1.45E-08
2815	256662.13	4086068.21	9.66E-09	1.29E-07	1.91E-08	1.91E-08	1.06E-08	1.88E-07	1.47E-09	1.97E-08	2.98E-09	2.98E-09	1.64E-09	2.87E-08	7.97E-10	1.06E-08	1.33E-09	1.33E-09	6.57E-10	1.47E-08
2816	256652.18	4086046.6	9.82E-09	1.31E-07	1.94E-08	1.94E-08	1.08E-08	1.91E-07	1.49E-09	2.00E-08	3.03E-09	3.03E-09	1.67E-09	2.92E-08	8.10E-10	1.08E-08	1.35E-09	1.35E-09	6.67E-10	1.50E-08
2817	256642.23	4086024.99	9.95E-09	1.33E-07	1.97E-08	1.97E-08	1.10E-08	1.93E-07	1.51E-09	2.02E-08	3.07E-09	3.07E-09	1.69E-09	2.96E-08	8.20E-10	1.10E-08	1.37E-09	1.37E-09	6.76E-10	1.52E-08
2818	256632.28	4086003.38	1.01E-08	1.34E-07	1.99E-08	1.99E-08	1.11E-08	1.95E-07	1.53E-09	2.05E-08	3.10E-09	3.10E-09	1.71E-09	2.99E-08	8.29E-10	1.11E-08	1.38E-09	1.38E-09	6.84E-10	1.54E-08
2819	256622.32	4085981.76	1.01E-08	1.36E-07	2.01E-08	2.01E-08	1.12E-08	1.97E-07	1.54E-09	2.07E-08	3.13E-09	3.13E-09	1.72E-09	3.02E-08	8.37E-10	1.12E-08	1.39E-09	1.39E-09	6.90E-10	1.55E-08
2820	256612.37	4085960.15	1.02E-08	1.36E-07	2.02E-08	2.02E-08	1.12E-08	1.98E-07	1.55E-09	2.08E-08	3.15E-09	3.15E-09	1.73E-09	3.04E-08	8.42E-10	1.12E-08	1.40E-09	1.40E-09	6.94E-10	1.56E-08
2821	256602.42	4085938.54	1.02E-08	1.37E-07	2.02E-08	2.02E-08	1.13E-08	1.99E-07	1.55E-09	2.08E-08	3.16E-09	3.16E-09	1.74E-09	3.05E-08	8.44E-10	1.13E-08	1.41E-09	1.41E-09	6.96E-10	1.56E-08
2822	256592.47	4085916.93	1.02E-08	1.37E-07	2.02E-08	2.02E-08	1.13E-08	1.99E-07	1.55E-09	2.08E-08	3.16E-09	3.16E-09	1.74E-09	3.04E-08	8.44E-10	1.13E-08	1.41E-09	1.41E-09	6.95E-10	1.56E-08
2823	256582.52	4085895.32	1.02E-08	1.36E-07	2.01E-08	2.01E-08	1.12E-08	1.98E-07	1.55E-09	2.07E-08	3.14E-09	3.14E-09	1.73E-09	3.03E-08	8.40E-10	1.12E-08	1.40E-09	1.40E-09	6.92E-10	1.55E-08
2824	256572.56	4085873.7	1.01E-08	1.35E-07	2.00E-08	2.00E-08	1.11E-08	1.96E-07	1.53E-09	2.06E-08	3.12E-09	3.12E-09	1.71E-09	3.00E-08	8.33E-10	1.11E-08	1.39E-09	1.39E-09	6.87E-10	1.54E-08
2825	256562.61	4085852.09	9.98E-09	1.33E-07	1.97E-08	1.97E-08	1.10E-08	1.94E-07	1.51E-09	2.03E-08	3.08E-09	3.08E-09	1.69E-09	2.97E-08	8.22E-10	1.10E-08	1.37E-09	1.37E-09	6.78E-10	1.52E-08
2826	256552.66	4085830.48	9.81E-09	1.31E-07	1.94E-08	1.94E-08	1.08E-08	1.90E-07	1.49E-09	2.00E-08	3.03E-09	3.03E-09	1.66E-09	2.92E-08	8.08E-10	1.08E-08	1.35E-09	1.35E-09	6.66E-10	1.50E-08
2827	256542.71	4085808.87	9.59E-09	1.28E-07	1.90E-08	1.90E-08	1.06E-08	1.86E-07	1.46E-09	1.95E-08	2.96E-09	2.96E-09	1.63E-09	2.85E-08	7.91E-10	1.06E-08	1.32E-09	1.32E-09	6.52E-10	1.46E-08
2828	256532.76	4085787.26	9.34E-09	1.25E-07	1.85E-08	1.85E-08	1.03E-08	1.81E-07	1.42E-09	1.90E-08	2.88E-09	2.88E-09	1.58E-09	2.78E-08	7.70E-10	1.03E-08	1.28E-09	1.28E-09	6.35E-10	1.43E-08

2829	256522.8	4085765.64	9.05E-09	1.21E-07	1.79E-08	1.79E-08	9.97E-09	1.76E-07	1.37E-09	1.84E-08	2.79E-09	2.79E-09	1.54E-09	2.69E-08	7.46E-10	9.97E-09	1.24E-09	1.24E-09	6.15E-10	1.38E-08
2830	256512.85	4085744.03	8.72E-09	1.17E-07	1.72E-08	1.72E-08	9.61E-09	1.69E-07	1.32E-09	1.78E-08	2.69E-09	2.69E-09	1.48E-09	2.59E-08	7.19E-10	9.61E-09	1.20E-09	1.20E-09	5.93E-10	1.33E-08
2831	256502.9	4085722.42	8.37E-09	1.12E-07	1.65E-08	1.65E-08	9.22E-09	1.62E-07	1.27E-09	1.70E-08	2.58E-09	2.58E-09	1.42E-09	2.49E-08	6.90E-10	9.21E-09	1.15E-09	1.15E-09	5.69E-10	1.28E-08
2832	256492.95	4085700.81	8.00E-09	1.07E-07	1.58E-08	1.58E-08	8.81E-09	1.55E-07	1.21E-09	1.63E-08	2.47E-09	2.47E-09	1.36E-09	2.38E-08	6.59E-10	8.81E-09	1.10E-09	1.10E-09	5.44E-10	1.22E-08
2833	256483	4085679.2	7.60E-09	1.01E-07	1.50E-08	1.50E-08	8.37E-09	1.47E-07	1.15E-09	1.55E-08	2.34E-09	2.34E-09	1.29E-09	2.26E-08	6.26E-10	8.36E-09	1.04E-09	1.04E-09	5.16E-10	1.16E-08
2834	256473.04	4085657.58	7.18E-09	9.60E-08	1.42E-08	1.42E-08	7.91E-09	1.39E-07	1.09E-09	1.46E-08	2.22E-09	2.22E-09	1.22E-09	2.14E-08	5.92E-10	7.91E-09	9.86E-10	9.86E-10	4.88E-10	1.10E-08
2835	256463.09	4085635.97	6.77E-09	9.05E-08	1.34E-08	1.34E-08	7.46E-09	1.31E-07	1.03E-09	1.38E-08	2.09E-09	2.09E-09	1.15E-09	2.01E-08	5.58E-10	7.46E-09	9.30E-10	9.30E-10	4.60E-10	1.03E-08
2836	256453.14	4085614.36	6.37E-09	8.51E-08	1.26E-08	1.26E-08	7.02E-09	1.24E-07	9.67E-10	1.30E-08	1.97E-09	1.97E-09	1.08E-09	1.90E-08	5.25E-10	7.02E-09	8.75E-10	8.75E-10	4.33E-10	9.73E-09
2837	256443.19	4085592.75	6.00E-09	8.01E-08	1.18E-08	1.18E-08	6.61E-09	1.16E-07	9.10E-10	1.22E-08	1.85E-09	1.85E-09	1.02E-09	1.78E-08	4.94E-10	6.60E-09	8.23E-10	8.23E-10	4.07E-10	9.15E-09
2838	256433.24	4085571.14	5.65E-09	7.54E-08	1.12E-08	1.12E-08	6.22E-09	1.10E-07	8.57E-10	1.15E-08	1.74E-09	1.74E-09	9.58E-10	1.68E-08	4.65E-10	6.22E-09	7.75E-10	7.75E-10	3.84E-10	8.62E-09
2839	256423.28	4085549.52	5.33E-09	7.12E-08	1.05E-08	1.05E-08	5.88E-09	1.04E-07	8.09E-10	1.09E-08	1.65E-09	1.65E-09	9.05E-10	1.59E-08	4.40E-10	5.87E-09	7.32E-10	7.32E-10	3.62E-10	8.14E-09
2840	256413.33	4085527.91	5.06E-09	6.76E-08	1.00E-08	1.00E-08	5.57E-09	9.82E-08	7.68E-10	1.03E-08	1.56E-09	1.56E-09	8.58E-10	1.50E-08	4.17E-10	5.57E-09	6.94E-10	6.94E-10	3.44E-10	7.72E-09
2841	256403.38	4085506.3	4.82E-09	6.44E-08	9.53E-09	9.53E-09	5.31E-09	9.36E-08	7.32E-10	9.81E-09	1.49E-09	1.49E-09	8.18E-10	1.43E-08	3.97E-10	5.31E-09	6.62E-10	6.62E-10	3.28E-10	7.36E-09
2842	256393.43	4085484.69	4.62E-09	6.18E-08	9.14E-09	9.14E-09	5.09E-09	8.97E-08	7.02E-10	9.41E-09	1.43E-09	1.43E-09	7.84E-10	1.37E-08	3.81E-10	5.09E-09	6.35E-10	6.35E-10	3.14E-10	7.06E-09
2843	256383.48	4085463.08	4.46E-09	5.95E-08	8.81E-09	8.81E-09	4.91E-09	8.65E-08	6.76E-10	9.07E-09	1.37E-09	1.37E-09	7.56E-10	1.32E-08	3.67E-10	4.91E-09	6.12E-10	6.12E-10	3.03E-10	6.80E-09
2844	256373.52	4085441.47	4.32E-09	5.76E-08	8.53E-09	8.53E-09	4.75E-09	8.38E-08	6.55E-10	8.78E-09	1.33E-09	1.33E-09	7.32E-10	1.28E-08	3.56E-10	4.75E-09	5.92E-10	5.92E-10	2.93E-10	6.58E-09
2845	256363.57	4085419.85	4.20E-09	5.60E-08	8.29E-09	8.29E-09	4.62E-09	8.14E-08	6.37E-10	8.54E-09	1.29E-09	1.29E-09	7.12E-10	1.25E-08	3.46E-10	4.62E-09	5.76E-10	5.76E-10	2.85E-10	6.40E-09
2846	256353.62	4085398.24	4.09E-09	5.46E-08	8.08E-09	8.08E-09	4.51E-09	7.94E-08	6.21E-10	8.32E-09	1.26E-09	1.26E-09	6.94E-10	1.22E-08	3.37E-10	4.50E-09	5.62E-10	5.62E-10	2.78E-10	6.24E-09
2847	256343.67	4085376.63	3.99E-09	5.34E-08	7.89E-09	7.89E-09	4.40E-09	7.75E-08	6.06E-10	8.13E-09	1.23E-09	1.23E-09	6.78E-10	1.19E-08	3.29E-10	4.40E-09	5.48E-10	5.48E-10	2.71E-10	6.10E-09
2848	256333.72	4085355.02	3.90E-09	5.22E-08	7.72E-09	7.72E-09	4.30E-09	7.58E-08	5.93E-10	7.95E-09	1.20E-09	1.20E-09	6.62E-10	1.16E-08	3.22E-10	4.30E-09	5.36E-10	5.36E-10	2.65E-10	5.96E-09
2849	256323.76	4085333.41	3.82E-09	5.10E-08	7.54E-09	7.54E-09	4.21E-09	7.41E-08	5.79E-10	7.77E-09	1.18E-09	1.18E-09	6.48E-10	1.14E-08	3.15E-10	4.20E-09	5.24E-10	5.24E-10	2.59E-10	5.83E-09
2850	256313.81	4085311.79	3.73E-09	4.99E-08	7.38E-09	7.38E-09	4.11E-09	7.25E-08	5.67E-10	7.60E-09	1.15E-09	1.15E-09	6.33E-10	1.11E-08	3.08E-10	4.11E-09	5.13E-10	5.13E-10	2.54E-10	5.70E-09
2851	256303.86	4085290.18	3.65E-09	4.88E-08	7.22E-09	7.22E-09	4.03E-09	7.09E-08	5.55E-10	7.43E-09	1.13E-09	1.13E-09	6.20E-10	1.09E-08	3.01E-10	4.02E-09	5.02E-10	5.02E-10	2.48E-10	5.58E-09
2852	256293.91	4085268.57	3.58E-09	4.78E-08	7.07E-09	7.07E-09	3.94E-09	6.94E-08	5.43E-10	7.28E-09	1.10E-09	1.10E-09	6.07E-10	1.06E-08	2.95E-10	3.94E-09	4.91E-10	4.91E-10	2.43E-10	5.46E-09
2853	256283.96	4085246.96	3.51E-09	4.69E-08	6.93E-09	6.93E-09	3.87E-09	6.81E-08	5.32E-10	7.14E-09	1.08E-09	1.08E-09	5.95E-10	1.04E-08	2.89E-10	3.86E-09	4.82E-10	4.82E-10	2.38E-10	5.35E-09
2854	256274	4085225.35	3.45E-09	4.60E-08	6.81E-09	6.81E-09	3.80E-09	6.69E-08	5.23E-10	7.01E-09	1.06E-09	1.06E-09	5.85E-10	1.02E-08	2.84E-10	3.79E-09	4.73E-10	4.73E-10	2.34E-10	5.26E-09
2855	257620.68	4086454.33	6.75E-09	9.01E-08	1.33E-08	1.33E-08	7.43E-09	1.31E-07	1.02E-09	1.37E-08	2.08E-09	2.08E-09	1.14E-09	2.01E-08	5.56E-10	7.43E-09	9.26E-10	9.26E-10	4.58E-10	1.03E-08
2856	257644.96	4086453.25	6.66E-09	8.90E-08	1.32E-08	1.32E-08	7.34E-09	1.29E-07	1.01E-09	1.36E-08	2.06E-09	2.06E-09	1.13E-09	1.98E-08	5.49E-10	7.33E-09	9.14E-10	9.14E-10	4.53E-10	1.02E-08
2857	257669.24	4086452.18	6.58E-09	8.78E-08	1.30E-08	1.30E-08	7.25E-09	1.28E-07	9.98E-10	1.34E-08	2.03E-09	2.03E-09	1.12E-09	1.96E-08	5.42E-10	7.24E-09	9.03E-10	9.03E-10	4.47E-10	1.00E-08
2858	257693.53	4086451.1	6.49E-09	8.67E-08	1.28E-08	1.28E-08	7.15E-09	1.26E-07	9.85E-10	1.32E-08	2.00E-09	2.00E-09	1.10E-09	1.93E-08	5.35E-10	7.14E-09	8.91E-10	8.91E-10	4.41E-10	9.90E-09
2859	257717.81	4086450.02	6.40E-09	8.55E-08	1.26E-08	1.26E-08	7.05E-09	1.24E-07	9.71E-10	1.30E-08	1.97E-09	1.97E-09	1.09E-09	1.90E-08	5.28E-10	7.05E-09	8.79E-10	8.79E-10	4.35E-10	9.77E-09
2860	257742.09	4086448.95	6.31E-09	8.43E-08	1.25E-08	1.25E-08	6.95E-09	1.23E-07	9.58E-10	1.28E-08	1.95E-09	1.95E-09	1.07E-09	1.88E-08	5.20E-10	6.95E-09	8.66E-10	8.66E-10	4.29E-10	9.63E-09
2861	257766.37	4086447.87	6.24E-09	8.33E-08	1.23E-08	1.23E-08	6.87E-09	1.21E-07	9.46E-10	1.27E-08	1.92E-09	1.92E-09	1.06E-09	1.85E-08	5.14E-10	6.87E-09	8.56E-10	8.56E-10	4.24E-10	9.52E-09
2862	257790.65	4086446.8	6.16E-09	8.23E-08	1.22E-08	1.22E-08	6.79E-09	1.20E-07	9.35E-10	1.25E-08	1.90E-09	1.90E-09	1.05E-09	1.83E-08	5.08E-10	6.78E-09	8.46E-10	8.46E-10	4.19E-10	9.40E-09
2863	257814.94	4086445.72	6.09E-09	8.13E-08	1.20E-08	1.20E-08	6.71E-09	1.18E-07	9.24E-10	1.24E-08	1.88E-09	1.88E-09	1.03E-09	1.81E-08	5.02E-10	6.70E-09	8.36E-10	8.36E-10	4.14E-10	9.29E-09
2864	257839.22	4086444.65	6.01E-09	8.03E-08	1.19E-08	1.19E-08	6.62E-09	1.17E-07	9.12E-10	1.22E-08	1.85E-09	1.85E-09	1.02E-09	1.79E-08	4.95E-10	6.62E-09	8.25E-10	8.25E-10	4.08E-10	9.17E-09
2865	257863.5	4086443.57	5.93E-09	7.93E-08	1.17E-08	1.17E-08	6.54E-09	1.15E-07	9.01E-10	1.21E-08	1.83E-09	1.83E-09	1.01E-09	1.76E-08	4.89E-10	6.53E-09	8.15E-10	8.15E-10	4.03E-10	9.05E-09
2866	257887.78	4086442.5	5.85E-09	7.82E-08	1.16E-08	1.16E-08	6.45E-09	1.14E-07	8.88E-10	1.19E-08	1.81E-09	1.81E-09	9.93E-10	1.74E-08	4.82E-10	6.44E-09	8.03E-10	8.03E-10	3.98E-10	8.93E-09
2867	257912.06	4086441.42	5.77E-09	7.70E-08	1.14E-08	1.14E-08	6.35E-09	1.12E-07	8.75E-10	1.17E-08	1.78E-09	1.78E-09	9.78E-10	1.71E-08	4.75E-10	6.35E-09	7.92E-10	7.92E-10	3.92E-10	8.80E-09
2868	257936.34	4086440.35	5.67E-09	7.58E-08	1.12E-08	1.12E-08	6.25E-09	1.10E-07	8.61E-10	1.15E-08	1.75E-09	1.75E-09	9.62E-10	1.69E-08	4.68E-10	6.25E-09	7.79E-10	7.79E-10	3.86E-10	8.66E-09
2869	257960.63	4086439.27	5.58E-09	7.45E-08	1.10E-08	1.10E-08	6.15E-09	1.08E-07	8.46E-10	1.13E-08	1.72E-09	1.72E-09	9.46E-10	1.66E-08	4.60E-10	6.14E-09	7.66E-10	7.66E-10	3.79E-10	8.51E-09
2870	257984.91	4086438.19	5.48E-09	7.31E-08	1.08E-08	1.08E-08	6.03E-09	1.06E-07	8.31E-10	1.11E-08	1.69E-09	1.69E-09	9.29E-10	1.63E-08	4.51E-10	6.03E-09	7.52E-10	7.52E-10	3.72E-10	8.35E-09
2871	258009.19	4086437.12	5.37E-09	7.17E-08	1.06E-08	1.06E-08	5.91E-09	1.04E-07	8.15E-10	1.09E-08	1.66E-09	1.66E-09	9.11E-10	1.60E-08	4.42E-10	5.91E-09	7.37E-10	7.37E-10	3.65E-10	8.19E-09
2872	258033.47	4086436.04	5.26E-09	7.03E-08	1.04E-08	1.04E-08	5.79E-09	1.02E-07	7.98E-10	1.07E-08	1.62E-09	1.62E-09	8.92E-10	1.56E-08	4.34E-10	5.79E-09	7.22E-10	7.22E-10	3.57E-10	8.03E-09
2873	258057.75	4086434.97	5.15E-09	6.88E-08	1.02E-08	1.02E-08	5.68E-09	1.00E-07	7.82E-10	1.05E-08	1.59E-09	1.59E-09	8.74E-10	1.53E-08	4.25E-10	5.67E-09	7.07E-10	7.07E-10	3.50E-10	7.86E-09
2874	258082.04	4086433.89	5.04E-09	6.74E-08	9.97E-09	9.97E-09	5.56E-09	9.79E-08	7.65E-10	1.03E-08	1.56E-09	1.56E-09	8.55E-10	1.50E-08	4.16E-10	5.55E-09	6.92E-10	6.92E-10	3.43E-10	7.70E-09
2875	258106.32	4086432.82	4.94E-09	6.60E-08	9.76E-09	9.76E-09	5.44E-09	9.58E-08	7.49E-10	1.00E-08	1.52E-09	1.52E-09	8.38E-10	1.47E-08	4.07E-10	5.44E-09	6.78E-10	6.78E-10	3.36E-10	7.53E-09
2876	258130.6	4086431.74	4.84E-09	6.46E-08	9.56E-09	9.56E-09	5.33E-09	9.39E-08	7.34E-10	9.85E-09	1.49E-09	1.49E-09	8.21E-10	1.44E-08	3.99E-10	5.33E-09	6.64E-10	6.64E-10	3.29E-10	7.38E-09
2877	258154.88	4086430.67	4.75E-09	6.34E-08	9.38E-09	9.38E-09	5.23E-09	9.21E-08	7.20E-10	9.66E-09	1.46E-09	1.46E-09	8.05E-10	1.41E-08	3.91E-10	5.23E-09	6.51E-10	6.51E-10	3.22E-10	7.24E-09
2878	258179.16	4086429.59	4.66E-09	6.22E-08	9.21E-09	9.21E-09	5.13E-09	9.04E-08	7.07E-10	9.48E-09	1.44E-09	1.44E-09	7.90E-10	1.39E-08	3.84E-10	5.13E-09	6.40E-10	6.40E-10	3.17E-10	7.11E-09
2879	258203.44	4086428.52	4.58E-09	6.11E-08	9.04E-09	9.04E-09	5.04E-09	8.88E-08	6.95E-10	9.31E-09	1.41E-09	1.41E-09	7.76E-10	1.36E-08	3.77E-10	5.04E-09	6.28E-10	6.28E-10	3.11E-10	6.98E-09
2880	258227.73	4086427.44	4.50E-09	6.01E-08	8.89E-09	8.89E-09	4.96E-09	8.73E-08	6.83E-10	9.16E-09	1.39E-09	1.39E-09	7.63E-10	1.34E-08	3.71E-10	4.95E-09	6.18E-10	6.18E-10	3.06E-10	6.87E-09
2881	258252.01	4086426.36	4.42E-09	5.91E-08	8.74E-09	8.74E-09	4.88E-09	8.59E-08	6.72E-10	9.00E-09	1.37E-09	1.37E-09	7.51E-10	1.32E-08	3.65E-10	4.87E-09	6.07E-10	6.07E-10	3.01E-10	6.75E-09
2882	258276.29	4086425.29	4.35E-09	5.81E-08	8.59E-09	8.59E-09	4.79E-09	8.44E-08	6.60E-10	8.85E-09	1.34E-09	1.34E-09	7.38E-10	1.29E-08	3.58E-10	4.79E-09	5.97E-10	5.97E-10	2.96E-10	6.64E-09
2883	258300.57	4086424.21	4.27E-09	5.71E-08	8.44E-09	8.44E-09	4.71E-09	8.29E-08	6.48E-10	8.69E-09	1.32E-09	1.32E-09	7.25E-10	1.27E-08	3.52E-10	4.70E-09	5.86E-10	5.86E-10	2.90E-10	6.52E-09
2884	258324.85	4086423.14	4.19E-09	5.60E-08	8.29E-09	8.29E-09	4.62E-09	8.14E-08	6.36E-10	8.53E-09	1.29E-09	1.29E-09	7.11E-10	1.25E-08	3.46E-10	4.62E-09	5.76E-10	5.76E-10	2.85E-10	6.40E-09
2885	258349.14	4086422.06	4.11E-09	5.49E-08	8.13E-09	8.13E-09	4.53E-09	7.98E-08	6.24E-10	8.37E-09	1.27E-09	1.27E-09	6.98E-10	1.22E-08	3.39E-10	4.53E-09	5.65E-10	5.65E-10	2.79E-10	6.28E-09
2886	258373.42	4086420.99	4.03E-09	5.38E-08	7.96E-09	7.96E-09	4.44E-09	7.82E-08	6.12E-10	8.20E-09	1.24E-09	1.24E-09	6.84E-10	1.20E-08	3.32E-10	4.44E-09	5.53E-10	5.53E-10	2.74E-10	6.15E-09
2887	258397.7	4086419.91	3.95E-09	5.27E-08	7.80E-09	7.80E-09	4.35E-09	7.66E-08	5.99E-10	8.03E-09	1.22E-09	1.22E-09	6.70E-10	1.17E-08	3.25E-10	4.35E-09	5.42E-10	5.42E-10	2.68E-10	6.02E-09
2888	258421.98	4086418.84	3.87E-09	5.16E-08	7.64E-09	7.64E-09	4.26E-09	7.50E-08	5.87E-10	7.87E-09	1.19E-09	1.19E-09	6.56E-10	1.15E-08	3.19E-10	4.26E-09	5.31E-10	5.31E-10	2.63E-10	5.90E-09
2889	257606.97	4086645.89	5.49E-09	7.34E-08	1.09E-08	1.09E-08	6.05E-09	1.07E-07	8.34E-10	1.12E-08	1.69E-09	1.69E-09	9.32E-10	1.63E-08	4.53E-10	6.05E-09	7.54E-10	7.54E-10	3.73E-10	8.38E-09
2890	257584.4	4086637.65	5.60E-09	7.47E-08	1.11E-08	1.11E-08	6.17E-09	1.09E-07	8.49E-10	1.14E-08	1.73E-09	1.73E-09	9.49E-10	1.66E-08	4.61E-10	6.16E-09	7.68E-10	7.68E-10	3.80E-10	8.54E-09
2891	257561.84	4086629.4	5.71E-09	7.62E-08	1.13E-08	1.13E-08	6.29E-09	1.11E-07	8.66E-10	1.16E-08	1.76E-09	1.76E-09	9.68E-10	1.70E-08	4.70E-10	6.28E-09	7.83E-10	7.83E-10	3.88E-10	8.71E-09
2892	257539.28	4086621.16	5.82E-09	7.77E-08	1.15E-08	1.15E-08	6.41E-09	1.13E-07	8.83E-10	1.18E-08	1.79E-09	1.79E-09	9.87E-10	1.73E-08	4.80E-10	6.41E-09	7.99E-10	7.99E-10	3.95E-10	8.88E-09
2893	257516.71	4086612.92	5.93E-09	7.93E-08	1.17E-08	1.17E-08	6.54E-09	1.15E-07	9.01E-10	1.21E-08	1.83E-09	1.83E-09	1.01E-09	1.76E-08	4.89E-10	6.53E-09	8.15E-10	8.15E-10	4.03E-10	9.05E-09
2894	257494.15	4086604.68	6.05E-09	8.08E-08	1.20E-08	1.20E-08	6.67E-09	1.17E-07	9.18E-10	1.23E-08	1.87E-09	1.87E-09	1.03E-09	1.80E-08	4.99E-10	6.66E-09	8.31E-10	8.31E-10	4.11E-10	9.23E-09
2895	257471.59	4086596.43	6.17E-09	8.24E-08	1.22E-08	1.22E-08	6.80E-09	1.20E-07	9.36E-10	1.26E-08	1.90E-09	1.90E-09	1.05E-09	1.83E-08	5.08E-10	6.79E-09	8.47E-10	8.47E-10	4.19E-10	9.41E-09
2896	257449.02	4086588.19	6.29E-09	8.40E-08	1.24E-08	1.24E-08	6.92E-09	1.22E-07	9.54E-10	1.28E-08	1.94E-09	1.94E-09	1.07E-09	1.87E-08	5.18E-10	6.92E-09	8.63E-10	8.63E-10	4.27E-10	9.59E-09
2897	257426.46	4086579.95	6.40E-09	8.54E-08	1.26E-08	1.26E-08	7.05E-09	1.24E-07	9.71E-10	1.30E-08	1.97E-09	1.97E-09	1.09E-09	1.90E-08	5.27E-10	7.04E-09	8.78E-10	8.78E-10	4.35E-10	9.76E-09
2898	257403.89	4086571.7	6.50E-09	8.69E-08	1.29E-08	1.29E-08	7.17E-09	1.26E-07	9.87E-10	1.32E-08	2.01E-09	2.01E-09	1.10E-09	1.93E-08	5.36E-10	7.16E-09	8.93E-10	8.93E-10	4.42E-10	9.92E-09
2899	257381.33	4086563.46	6.60E-09	8.82E-08	1.31E-08	1.31E-08	7.28E-09	1.28E-07	1.00E-09	1.34E-08	2.04E-09	2.04E-09	1.12E-09	1.96E-08	5.44E-10	7.27E-09	9.07E-10	9.07E-10	4.49E-10	1.01E-08
2900	257358.77	4086555.22	6.70E-09	8.94E-08	1.32E-08	1.32E-08	7.38E-09	1.30E-07	1.02E-09	1.36E-08	2.07E-09	2.07E-09	1.14E-09	1.99E-08	5.52E-10	7.37E-09	9.19E-10	9.19E-10	4.55E-10	1.02E-08
2901	257336.2	4086546.98	6.78E-09	9.06E-08	1.34E-08	1.34E-08	7.47E-09	1.32E-07	1.03E-09	1.38E-08	2.09E-09	2.09E-09	1.15E-09	2.02E-08	5.59E-10	7.47E-09	9.31E-10	9.31E-10	4.61E-10	1.03E-08
2902	257313.64	4086538.73	6.86E-09	9.16E-08	1.36E-08	1.36E-08	7.56E-09	1.33E-07	1.04E-09	1.40E-08	2.12E-09	2.12E-09	1.16E-09	2.04E-08	5.65E-10	7.55E-09	9.42E-10	9.42E-10	4.66E-10	1.05E-08
2903	257291.08	4086530.49	6.93E-09	9.26E-08	1.37E-08	1.37E-08	7.64E-09	1.35E-07	1.05E-09	1.41E-08	2.14E-09	2.14E-09	1.18E-09	2.06E-08	5.71E-10	7.63E-09	9.52E-10	9.52E-10	4.71E-10	1.06E-08
2904	257268.51	4086522.25	7.00E-09	9.35E-08	1.38E-08	1.38E-08	7.71E-09	1.36E-07	1.06E-09	1.42E-08	2.16E-09	2.16E-09	1.19E-09	2.08E-08	5.77E-10	7.71E-09	9.61E-10	9.61E-10	4.76E-10	1.07E-08
2905	257245.95	4086514.01	7.07E-09	9.45E-08	1.40E-08	1.40E-08	7.79E-09	1.37E-07	1.07E-09	1.44E-08	2.18E-09	2.18E-09	1.20E-09	2.10E-08	5.83E-10	7.79E-09	9.71E-10	9.71E-10	4.81E-10	1.08E-08
2906	257223.39	4086505.76	7.15E-09	9.55E-08	1.41E-08	1.41E-08	7.88E-09	1.39E-07	1.09E-09	1.46E-08	2.21E-09	2.21E-09	1.21E-09	2.13E-08	5.90E-10	7.88E-09	9.82E-10	9.82E-10	4.86E-10	1.09E-08
2907	257200.82	4086497.52	7.22E-09	9.65E-08	1.43E-08	1.43E-08	7.96E-09	1.40E-07	1.10E-09	1.47E-08	2.23E-09	2.23E-09	1.23E-09	2.15E-08	5.95E-10	7.95E-09	9.92E-10	9.92E-10	4.91E-10	1.10E-08
2908	257178.26	4086489.28	7.29E-09	9.74E-08	1.44E-08	1.44E-08	8.03E-09	1.42E-07	1.11E-09	1.48E-08	2.25E-09	2.25E-09	1.24E-09	2.17E-08	6.01E-10	8.03E-09	1.00E-09	1.00E-09	4.96E-10	1.11E-08
2909	257155.7	4086481.04	7.36E-09	9.83E-08	1.45E-08	1.45E-08	8.11E-09	1.43E-07	1.12E-09	1.50E-08	2.27E-09	2.27E-09	1.25E-09	2.19E-08	6.07E-10	8.11E-09	1.01E-09	1.01E-09	5.00E-10	1.12E-08
2910	257133.13	4086472.79	7.43E-09	9.92E-08	1.47E-08	1.47E-08	8.19E-09	1.44E-07	1.13E-09	1.51E-08	2.29E-09	2.29E-09	1.26E-09	2.21E-08	6.12E-10	8.18E-09	1.02E-09	1.02E-09	5.05E-10	1.13E-08
2911	257110.57	4086464.55	7.50E-09	1.00E-07	1.48E-08	1.48E-08	8.26E-09	1.46E-07	1.14E-09	1.53E-08	2.31E-09	2.31E-09	1.27E-09	2.23E-08	6.18E-10	8.26E-09	1.03E-09	1.03E-09	5.09E-10	1.14E-08
2912	257088	4086456.31	7.56E-09	1.01E-07	1.49E-08	1.49E-08	8.33E-09	1.47E-07	1.15E-09	1.54E-08	2.33E-09	2.33E-09	1.28E-09	2.25E-08	6.24E-10	8.33E-09	1.04E-09	1.04E-09	5.14E-10	1.15E-08
2913	257065.44	4086448.07	7.63E-09	1.02E-07	1.51E-08	1.51E-08	8.40E-09	1.48E-07	1.16E-09	1.55E-08	2.35E-09	2.35E-09	1.29E-09	2.27E-08	6.29E-10	8.40E-09	1.05E-09	1.05E-09	5.18E-10	1.16E-08
2914	257042.88	4086439.82	7.68E-09	1.03E-07	1.52E-08	1.52E-08	8.47E-09	1.49E-07	1.17E-09	1.56E-08	2.37E-09	2.37E-09	1.30E-09	2.28E-08	6.33E-10	8.46E-09	1.05E-09	1.05E-09	5.22E-10	1.17E-08
2915	257020.31	4086431.58	7.73E-09	1.03E-07	1.53E-08	1.53E-08	8.52E-09	1.50E-07	1.17E-09	1.57E-08	2.39E-09	2.39E-09	1.31E-09	2.30E-08	6.38E-10	8.52E-09	1.06E-09	1.06E-09	5.26E-10	1.18E-08
2916	256997.75	4086423.34	7.78E-09	1.04E-07	1.54E-08	1.54E-08	8.57E-09	1.51E-07	1.18E-09	1.58E-08	2.40E-09	2.40E-09	1.32E-09	2.31E-08	6.41E-10	8.56E-09	1.07E-09	1.07E-09	5.28E-10	1.19E-08
2917	256975.19	4086415.1	7.81E-09	1.04E-07	1.54E-08	1.54E-08	8.60E-09	1.52E-07	1.18E-09	1.59E-08	2.41E-09	2.41E-09	1.32E-09	2.32E-08	6.44E-10	8.60E-09	1.07E-09	1.07E-09	5.31E-10	1.19E-08
2918	256952.62	4086406.85	7.83E-09	1.05E-07	1.55E-08	1.55E-08	8.63E-09	1.52E-07	1.19E-09	1.59E-08	2.42E-09	2.42E-09	1.33E-09	2.33E-08	6.45E-10	8.62E-09	1.07E-09	1.07E-09	5.32E-10	1.19E-08
2919	256930.06	4086398.61	7.84E-09	1.05E-07	1.55E-08	1.55E-08	8.64E-09	1.52E-07	1.19E-09	1.60E-08	2.42E-09	2.42E-09	1.33E-09	2.33E-08	6.46E-10	8.63E-09	1.08E-09	1.08E-09	5.33E-10	1.20E-08
2920	256907.5	4086390.37	7.84E-09	1.05E-07	1.55E-08	1.55E-08	8.64E-09	1.52E-07	1.19E-09	1.60E-08	2.42E-09	2.42E-09	1.33E-09	2.33E-08	6.46E-10	8.63E-09	1.08E-09	1.08E-09	5.33E-10	1.20E-08
2921	256884.93	4086382.13	7.84E-09	1.05E-07	1.55E-08	1.55E-08	8.63E-09	1.52E-07	1.19E-09	1.59E-08	2.42E-09	2.42E-09	1.33E-09	2.33E-08	6.46E-10	8.63E-09	1.08E-09	1.08E-09	5.32E-10	1.20E-08
2922	256862.37	4086373.88	7.82E-09	1.05E-07	1.55E-08	1.55E-08	8.62E-09	1.52E-07	1.19E-09	1.59E-08	2.41E-09	2.41E-09	1.33E-09	2.33E-08	6.45E-10	8.62E-09	1.07E-09	1.07E-09	5.32E-10	1.19E-08
2923	256839.8	4086365.64	7.81E-09	1.04E-07	1.54E-08	1.54E-08	8.61E-09	1.52E-07	1.19E-09	1.59E-08	2.41E-09	2.41E-09	1.33E-09	2.32E-08	6.44E-10	8.60E-09	1.07E-09	1.07E-09	5.31E-10	1.19E-08
2924	256817.24	4086357.4	7.80E-09	1.04E-07	1.54E-08	1.54E-08	8.60E-09	1.51E-07	1.18E-09	1.59E-08	2.41E-09	2.41E-09	1.32E-09	2.32E-08	6.43E-10	8.59E-09	1.07E-09	1.07E-09	5.30E-10	1.19E-08
2925	256794.68	4086349.15	7.80E-09	1.04E-07	1.54E-08	1.54E-08	8.59E-09	1.51E-07	1.18E-09	1.59E-08	2.41E-09	2.41E-09	1.32E-09	2.32E-08	6.43E-10	8.58E-09	1.07E-09	1.07E-09	5.30E-10	1.19E-08
2926	256772.11	4086340.91	7.80E-09	1.04E-07	1.54E-08	1.54E-08	8.59E-09	1.51E-07	1.18E-09	1.59E-08	2.41E-09	2.41E-09	1.32E-09	2.32E-08	6.43E-10	8.58E-09	1.07E-09	1.07E-09	5.30E-10	1.19E-08
2927	256749.55	4086332.67	7.80E-09	1.04E-07	1.54E-08	1.54E-08	8.59E-09	1.51E-07	1.18E-09	1.59E-08	2.41E-09	2.41E-09	1.32E-09	2.32E-08	6.43E-10	8.59E-09	1.07E-09	1.07E-09	5.30E-10	1.19E-08
2928	256726.99	4086324.43	7.81E-09	1.04E-07	1.54E-08	1.54E-08	8.60E-09	1.52E-07	1.18E-09	1.59E-08	2.41E-09	2.41E-09	1.32E-09	2.32E-08	6.44E-10	8.60E-09	1.07E-09	1.07E-09	5.31E-10	1.19E-08
2929	256704.42	4086316.18	7.82E-09	1.04E-07	1.55E-08	1.55E-08	8.62E-09	1.52E-07	1.19E-09	1.59E-08	2.41E-09	2.41E-09	1.33E-09	2.33E-08	6.45E-10	8.61E-09	1.07E-09	1.07E-09	5.31E-10	1.19E-08
2930	256681.86	4086307.94	7.84E-09	1.05E-07	1.55E-08	1.55E-08	8.63E-09	1.52E-07	1.19E-09	1.59E-08	2.42E-09	2.42E-09	1.33E-09	2.33E-08	6.46E-10	8.63E-09	1.08E-09	1.08E-09	5.32E-10	1.20E-08
2931	256659.3	4086299.7	7.85E-09	1.05E-07	1.55E-08	1.55E-08	8.65E-09	1.52E-07	1.19E-09	1.60E-08	2.42E-09	2.42E-09	1.33E-09	2.33E-08	6.47E-10	8.65E-09	1.08E-09	1.08E-09	5.34E-10	1.20E-08
2932	256636.73	4086291.46	7.87E-09	1.05E-07	1.56E-08	1.56E-08	8.67E-09	1.53E-07	1.19E-09	1.60E-08	2.43E-09	2.43E-09	1.33E-09	2.34E-08	6.49E-10	8.67E-09	1.08E-09	1.08E-09	5.35E-10	1.20E-08
2933	256614.17	4086283.21	7.90E-09	1.05E-07	1.56E-08	1.56E-08	8.70E-09	1.53E-07	1.20E-09	1.61E-08	2.44E-09	2.44E-09	1.34E-09	2.35E-08	6.51E-10	8.70E-09	1.08E-09	1.08E-09	5.37E-10	1.21E-08
2934	256591.61	4086274.97	7.93E-09	1.06E-07	1.57E-08	1.57E-08	8.73E-09	1.54E-07	1.20E-09	1.61E-08	2.45E-09	2.45E-09	1.34E-09	2.36E-08	6.53E-10	8.73E-09	1.09E-09	1.09E-09	5.39E-10	1.21E-08
2935	256569.04	4086266.73	7.94E-09	1.06E-07	1.57E-08	1.57E-08	8.75E-09	1.54E-07	1.21E-09	1.62E-08	2.45E-09	2.45E-09	1.35E-09	2.36E-08	6.55E-10	8.74E-09	1.09E-09	1.09E-09	5.40E-10	1.21E-08
2936	256536.43	4086236.67	8.08E-09	1.08E-07	1.60E-08	1.60E-08	8.90E-09	1.57E-07	1.23E-09	1.64E-08	2.49E-09	2.49E-09	1.37E-09	2.40E-08	6.66E-10	8.90E-09	1.11E-09	1.11E-09	5.49E-10	1.23E-08
2937	256526.38	4086214.85	8.20E-09	1.10E-07	1.62E-08	1.62E-08	9.04E-09	1.59E-07	1.25E-09	1.67E-08	2.53E-09	2.53E-09	1.39E-09	2.44E-08	6.76E-10	9.03E-09	1.13E-09	1.13E-09	5.58E-10	1.25E-08
2938	256516.33	4086193.03	8.32E-09	1.11E-07	1.65E-08	1.65E-08	9.17E-09	1.62E-07	1.26E-09	1.69E-08	2.57E-09	2.57E-09	1.41E-09	2.48E-08	6.86E-10	9.17E-09	1.14E-09	1.14E-09	5.66E-10	1.27E-08
2939	256506.29	4086171.21	8.44E-09	1.13E-07	1.67E-08	1.67E-08	9.30E-09	1.64E-07	1.28E-09	1.72E-08	2.60E-09	2.60E-09	1.43E-09	2.51E-08	6.96E-10	9.29E-09	1.16E-09	1.16E-09	5.73E-10	1.29E-08
2940	256496.24	4086149.39	8.55E-09	1.14E-07	1.69E-08	1.69E-08	9.42E-09	1.66E-07	1.30E-09	1.74E-08	2.64E-09	2.64E-09	1.45E-09	2.54E-08	7.04E-10	9.41E-09	1.17E-09	1.17E-09	5.81E-10	1.30E-08
2941	256486.19	4086127.57	8.64E-09	1.15E-07	1.71E-08	1.71E-08	9.52E-09	1.68E-07	1.31E-09	1.76E-08	2.67E-09	2.67E-09	1.47E-09	2.57E-08	7.12E-10	9.51E-09	1.19E-09	1.19E-09	5.87E-10	1.32E-08
2942	256476.14	4086105.75	8.72E-09	1.16E-07	1.72E-08	1.72E-08	9.61E-09	1.69E-07	1.32E-09	1.77E-08	2.69E-09	2.69E-09	1.48E-09	2.59E-08	7.19E-10	9.60E-09	1.20E-09	1.20E-09	5.93E-10	1.33E-08
2943	256466.1	4086083.93	8.78E-09	1.17E-07	1.74E-08	1.74E-08	9.68E-09	1.70E-07	1.33E-09	1.79E-08	2.71E-09	2.71E-09	1.49E-09	2.61E-08	7.24E-10	9.67E-09	1.21E-09	1.21E-09	5.97E-10	1.34E-08
2944	256456.05	4086062.11	8.83E-09	1.18E-07	1.74E-08	1.74E-08	9.72E-09	1.71E-07	1.34E-09	1.80E-08	2.72E-09	2.72E-09	1.50E-09	2.62E-08	7.27E-10	9.72E-09	1.21E-09	1.21E-09	6.00E-10	1.35E-08
2945	256446	4086040.29	8.84E-09	1.18E-07	1.75E-08	1.75E-08	9.74E-09	1.72E-07	1.34E-09	1.80E-08	2.73E-09	2.73E-09	1.50E-09	2.63E-08	7.29E-10	9.73E-09	1.21E-09	1.21E-09	6.01E-10	1.35E-08
2946	256435.95	4086018.47	8.83E-09	1.18E-07	1.75E-08	1.75E-08	9.73E-09	1.71E-07	1.34E-09	1.80E-08	2.73E-09	2.73E-09	1.50E-09	2.63E-08	7.28E-10	9.72E-09	1.21E-09	1.21E-09	6.00E-10	1.35E-08

2947	256425.91	4085996.65	8.79E-09	1.17E-07	1.74E-08	1.74E-08	9.69E-09	1.71E-07		1.33E-09	1.79E-08	2.71E-09	2.71E-09	1.49E-09	2.61E-08		7.25E-10	9.68E-09	1.21E-09	1.21E-09	5.97E-10	1.34E-08
2948	256415.86	4085974.83	8.72E-09	1.17E-07	1.72E-08	1.72E-08	9.61E-09	1.69E-07		1.32E-09	1.78E-08	2.69E-09	2.69E-09	1.48E-09	2.59E-08		7.19E-10	9.61E-09	1.20E-09	1.20E-09	5.93E-10	1.33E-08
2949	256405.81	4085953.01	8.63E-09	1.15E-07	1.70E-08	1.70E-08	9.50E-09	1.67E-07		1.31E-09	1.76E-08	2.66E-09	2.66E-09	1.46E-09	2.56E-08		7.11E-10	9.50E-09	1.18E-09	1.18E-09	5.86E-10	1.32E-08
2950	256395.76	4085931.19	8.49E-09	1.13E-07	1.68E-08	1.68E-08	9.36E-09	1.65E-07		1.29E-09	1.73E-08	2.62E-09	2.62E-09	1.44E-09	2.53E-08		7.00E-10	9.35E-09	1.17E-09	1.17E-09	5.77E-10	1.30E-08
2951	256385.71	4085909.37	8.33E-09	1.11E-07	1.65E-08	1.65E-08	9.18E-09	1.62E-07		1.26E-09	1.70E-08	2.57E-09	2.57E-09	1.41E-09	2.48E-08		6.87E-10	9.17E-09	1.14E-09	1.14E-09	5.66E-10	1.27E-08
2952	256375.67	4085887.55	8.15E-09	1.09E-07	1.61E-08	1.61E-08	8.97E-09	1.58E-07		1.24E-09	1.66E-08	2.51E-09	2.51E-09	1.38E-09	2.42E-08		6.71E-10	8.97E-09	1.12E-09	1.12E-09	5.54E-10	1.24E-08
2953	256365.62	4085865.73	7.93E-09	1.06E-07	1.57E-08	1.57E-08	8.74E-09	1.54E-07		1.20E-09	1.61E-08	2.45E-09	2.45E-09	1.35E-09	2.36E-08		6.54E-10	8.73E-09	1.09E-09	1.09E-09	5.39E-10	1.21E-08
2954	256355.57	4085843.91	7.67E-09	1.02E-07	1.52E-08	1.52E-08	8.45E-09	1.49E-07		1.16E-09	1.56E-08	2.37E-09	2.37E-09	1.30E-09	2.28E-08		6.32E-10	8.45E-09	1.05E-09	1.05E-09	5.21E-10	1.17E-08
2955	256345.52	4085822.09	7.39E-09	9.87E-08	1.46E-08	1.46E-08	8.14E-09	1.43E-07		1.12E-09	1.50E-08	2.28E-09	2.28E-09	1.25E-09	2.20E-08		6.09E-10	8.14E-09	1.01E-09	1.01E-09	5.02E-10	1.13E-08
2956	256335.48	4085800.27	7.09E-09	9.46E-08	1.40E-08	1.40E-08	7.81E-09	1.38E-07		1.08E-09	1.44E-08	2.19E-09	2.19E-09	1.20E-09	2.11E-08		5.84E-10	7.80E-09	9.73E-10	9.73E-10	4.82E-10	1.08E-08
2957	256325.43	4085778.45	6.77E-09	9.04E-08	1.34E-08	1.34E-08	7.46E-09	1.31E-07		1.03E-09	1.38E-08	2.09E-09	2.09E-09	1.15E-09	2.01E-08		5.58E-10	7.45E-09	9.29E-10	9.29E-10	4.60E-10	1.03E-08
2958	256315.38	4085756.63	6.44E-09	8.60E-08	1.27E-08	1.27E-08	7.09E-09	1.25E-07		9.77E-10	1.31E-08	1.99E-09	1.99E-09	1.09E-09	1.91E-08		5.30E-10	7.09E-09	8.84E-10	8.84E-10	4.37E-10	9.82E-09
2959	256305.33	4085734.81	6.10E-09	8.15E-08	1.21E-08	1.21E-08	6.72E-09	1.18E-07		9.26E-10	1.24E-08	1.88E-09	1.88E-09	1.03E-09	1.81E-08		5.03E-10	6.72E-09	8.38E-10	8.38E-10	4.15E-10	9.31E-09
2960	256295.29	4085712.99	5.77E-09	7.71E-08	1.14E-08	1.14E-08	6.36E-09	1.12E-07		8.76E-10	1.17E-08	1.78E-09	1.78E-09	9.79E-10	1.72E-08		4.76E-10	6.36E-09	7.93E-10	7.93E-10	3.92E-10	8.81E-09
2961	256285.24	4085691.17	5.46E-09	7.29E-08	1.08E-08	1.08E-08	6.01E-09	1.06E-07		8.28E-10	1.11E-08	1.68E-09	1.68E-09	9.26E-10	1.62E-08		4.50E-10	6.01E-09	7.49E-10	7.49E-10	3.71E-10	8.33E-09
2962	256275.19	4085669.35	5.15E-09	6.88E-08	1.02E-08	1.02E-08	5.67E-09	1.00E-07		7.82E-10	1.05E-08	1.59E-09	1.59E-09	8.74E-10	1.53E-08		4.24E-10	5.67E-09	7.07E-10	7.07E-10	3.50E-10	7.86E-09
2963	256265.14	4085647.53	4.87E-09	6.50E-08	9.62E-09	9.62E-09	5.36E-09	9.45E-08		7.39E-10	9.91E-09	1.50E-09	1.50E-09	8.26E-10	1.45E-08		4.01E-10	5.36E-09	6.68E-10	6.68E-10	3.31E-10	7.43E-09
2964	256255.09	4085625.71	4.61E-09	6.16E-08	9.12E-09	9.12E-09	5.08E-09	8.95E-08		7.00E-10	9.39E-09	1.42E-09	1.42E-09	7.82E-10	1.37E-08		3.80E-10	5.08E-09	6.33E-10	6.33E-10	3.13E-10	7.04E-09
2965	256245.05	4085603.89	4.39E-09	5.86E-08	8.67E-09	8.67E-09	4.83E-09	8.51E-08		6.66E-10	8.93E-09	1.35E-09	1.35E-09	7.44E-10	1.30E-08		3.62E-10	4.83E-09	6.02E-10	6.02E-10	2.98E-10	6.69E-09
2966	256235	4085582.07	4.19E-09	5.60E-08	8.28E-09	8.28E-09	4.62E-09	8.13E-08		6.36E-10	8.53E-09	1.29E-09	1.29E-09	7.11E-10	1.25E-08		3.45E-10	4.61E-09	5.75E-10	5.75E-10	2.85E-10	6.39E-09
2967	256224.95	4085560.26	4.02E-09	5.37E-08	7.95E-09	7.95E-09	4.43E-09	7.81E-08		6.11E-10	8.19E-09	1.24E-09	1.24E-09	6.83E-10	1.20E-08		3.32E-10	4.43E-09	5.52E-10	5.52E-10	2.73E-10	6.14E-09
2968	256214.9	4085538.44	3.88E-09	5.19E-08	7.68E-09	7.68E-09	4.28E-09	7.54E-08		5.90E-10	7.90E-09	1.20E-09	1.20E-09	6.59E-10	1.16E-08		3.20E-10	4.28E-09	5.33E-10	5.33E-10	2.64E-10	5.93E-09
2969	256204.86	4085516.62	3.77E-09	5.03E-08	7.45E-09	7.45E-09	4.15E-09	7.31E-08		5.72E-10	7.67E-09	1.16E-09	1.16E-09	6.39E-10	1.12E-08		3.11E-10	4.15E-09	5.17E-10	5.17E-10	2.56E-10	5.75E-09
2970	256194.81	4085494.8	3.67E-09	4.90E-08	7.25E-09	7.25E-09	4.04E-09	7.13E-08		5.57E-10	7.47E-09	1.13E-09	1.13E-09	6.23E-10	1.09E-08		3.03E-10	4.04E-09	5.04E-10	5.04E-10	2.49E-10	5.60E-09
2971	256184.76	4085472.98	3.59E-09	4.79E-08	7.09E-09	7.09E-09	3.95E-09	6.97E-08		5.45E-10	7.30E-09	1.11E-09	1.11E-09	6.09E-10	1.07E-08		2.96E-10	3.95E-09	4.93E-10	4.93E-10	2.44E-10	5.48E-09
2972	256174.71	4085451.16	3.51E-09	4.69E-08	6.94E-09	6.94E-09	3.87E-09	6.82E-08		5.33E-10	7.15E-09	1.08E-09	1.08E-09	5.96E-10	1.04E-08		2.90E-10	3.87E-09	4.82E-10	4.82E-10	2.39E-10	5.36E-09
2973	256164.67	4085429.34	3.45E-09	4.61E-08	6.81E-09	6.81E-09	3.80E-09	6.69E-08		5.23E-10	7.02E-09	1.06E-09	1.06E-09	5.85E-10	1.03E-08		2.84E-10	3.80E-09	4.73E-10	4.73E-10	2.34E-10	5.26E-09
2974	256154.62	4085407.52	3.38E-09	4.52E-08	6.68E-09	6.68E-09	3.73E-09	6.57E-08		5.13E-10	6.88E-09	1.04E-09	1.04E-09	5.74E-10	1.01E-08		2.79E-10	3.72E-09	4.64E-10	4.64E-10	2.30E-10	5.16E-09
2975	256144.57	4085385.7	3.32E-09	4.43E-08	6.56E-09	6.56E-09	3.66E-09	6.44E-08		5.03E-10	6.75E-09	1.02E-09	1.02E-09	5.63E-10	9.86E-09		2.73E-10	3.65E-09	4.55E-10	4.55E-10	2.25E-10	5.06E-09
2976	256134.52	4085363.88	3.25E-09	4.34E-08	6.43E-09	6.43E-09	3.58E-09	6.31E-08		4.94E-10	6.62E-09	1.00E-09	1.00E-09	5.52E-10	9.67E-09		2.68E-10	3.58E-09	4.47E-10	4.47E-10	2.21E-10	4.96E-09
2977	256124.47	4085342.06	3.19E-09	4.26E-08	6.30E-09	6.30E-09	3.51E-09	6.19E-08		4.84E-10	6.49E-09	9.84E-10	9.84E-10	5.41E-10	9.48E-09		2.63E-10	3.51E-09	4.38E-10	4.38E-10	2.17E-10	4.86E-09
2978	256114.43	4085320.24	3.12E-09	4.17E-08	6.17E-09	6.17E-09	3.44E-09	6.06E-08		4.74E-10	6.35E-09	9.63E-10	9.63E-10	5.30E-10	9.28E-09		2.57E-10	3.44E-09	4.29E-10	4.29E-10	2.12E-10	4.76E-09
2979	256104.38	4085298.42	3.06E-09	4.09E-08	6.05E-09	6.05E-09	3.37E-09	5.94E-08		4.65E-10	6.23E-09	9.45E-10	9.45E-10	5.19E-10	9.10E-09		2.52E-10	3.37E-09	4.20E-10	4.20E-10	2.08E-10	4.67E-09
2980	256094.33	4085276.6	3.01E-09	4.02E-08	5.94E-09	5.94E-09	3.31E-09	5.84E-08		4.56E-10	6.12E-09	9.28E-10	9.28E-10	5.10E-10	8.94E-09		2.48E-10	3.31E-09	4.13E-10	4.13E-10	2.04E-10	4.59E-09
2981	256084.28	4085254.78	2.95E-09	3.94E-08	5.83E-09	5.83E-09	3.25E-09	5.73E-08		4.48E-10	6.01E-09	9.11E-10	9.11E-10	5.01E-10	8.78E-09		2.43E-10	3.25E-09	4.05E-10	4.05E-10	2.01E-10	4.50E-09
2982	256074.24	4085232.96	2.91E-09	3.88E-08	5.75E-09	5.75E-09	3.20E-09	5.64E-08		4.41E-10	5.92E-09	8.97E-10	8.97E-10	4.93E-10	8.64E-09		2.40E-10	3.20E-09	3.99E-10	3.99E-10	1.98E-10	4.44E-09
2983	257629.53	4086654.13	5.39E-09	7.21E-08	1.07E-08	1.07E-08	5.94E-09	1.05E-07		8.19E-10	1.10E-08	1.66E-09	1.66E-09	9.15E-10	1.60E-08		4.45E-10	5.94E-09	7.41E-10	7.41E-10	3.67E-10	8.23E-09
2984	257653.81	4086653.06	5.34E-09	7.14E-08	1.06E-08	1.06E-08	5.89E-09	1.04E-07		8.11E-10	1.09E-08	1.65E-09	1.65E-09	9.07E-10	1.59E-08		4.41E-10	5.88E-09	7.34E-10	7.34E-10	3.63E-10	8.16E-09
2985	257678.09	4086651.98	5.30E-09	7.08E-08	1.05E-08	1.05E-08	5.84E-09	1.03E-07		8.04E-10	1.08E-08	1.63E-09	1.63E-09	8.99E-10	1.58E-08		4.37E-10	5.83E-09	7.27E-10	7.27E-10	3.60E-10	8.09E-09
2986	257702.38	4086650.9	5.25E-09	7.02E-08	1.04E-08	1.04E-08	5.79E-09	1.02E-07		7.97E-10	1.07E-08	1.62E-09	1.62E-09	8.91E-10	1.56E-08		4.33E-10	5.78E-09	7.21E-10	7.21E-10	3.57E-10	8.01E-09
2987	257726.66	4086649.83	5.21E-09	6.96E-08	1.03E-08	1.03E-08	5.74E-09	1.01E-07		7.91E-10	1.06E-08	1.61E-09	1.61E-09	8.84E-10	1.55E-08		4.29E-10	5.73E-09	7.15E-10	7.15E-10	3.54E-10	7.95E-09
2988	257750.94	4086648.75	5.17E-09	6.90E-08	1.02E-08	1.02E-08	5.69E-09	1.00E-07		7.84E-10	1.05E-08	1.59E-09	1.59E-09	8.76E-10	1.54E-08		4.26E-10	5.69E-09	7.09E-10	7.09E-10	3.51E-10	7.88E-09
2989	257775.22	4086647.68	5.12E-09	6.84E-08	1.01E-08	1.01E-08	5.64E-09	9.94E-08		7.77E-10	1.04E-08	1.58E-09	1.58E-09	8.69E-10	1.52E-08		4.22E-10	5.64E-09	7.03E-10	7.03E-10	3.48E-10	7.81E-09
2990	257799.5	4086646.6	5.07E-09	6.78E-08	1.00E-08	1.00E-08	5.59E-09	9.85E-08		7.70E-10	1.03E-08	1.57E-09	1.57E-09	8.61E-10	1.51E-08		4.18E-10	5.59E-09	6.97E-10	6.97E-10	3.45E-10	7.74E-09
2991	257823.79	4086645.53	5.02E-09	6.71E-08	9.93E-09	9.93E-09	5.54E-09	9.75E-08		7.63E-10	1.02E-08	1.55E-09	1.55E-09	8.52E-10	1.49E-08		4.14E-10	5.53E-09	6.90E-10	6.90E-10	3.41E-10	7.67E-09
2992	257848.07	4086644.45	4.97E-09	6.64E-08	9.82E-09	9.82E-09	5.48E-09	9.65E-08		7.54E-10	1.01E-08	1.53E-09	1.53E-09	8.43E-10	1.48E-08		4.10E-10	5.47E-09	6.82E-10	6.82E-10	3.38E-10	7.58E-09
2993	257872.35	4086643.38	4.91E-09	6.56E-08	9.71E-09	9.71E-09	5.41E-09	9.53E-08		7.45E-10	9.99E-09	1.52E-09	1.52E-09	8.33E-10	1.46E-08		4.05E-10	5.41E-09	6.74E-10	6.74E-10	3.34E-10	7.49E-09
2994	257896.63	4086642.3	4.85E-09	6.47E-08	9.58E-09	9.58E-09	5.34E-09	9.41E-08		7.36E-10	9.86E-09	1.50E-09	1.50E-09	8.22E-10	1.44E-08		3.99E-10	5.34E-09	6.65E-10	6.65E-10	3.29E-10	7.40E-09
2995	257920.91	4086641.23	4.78E-09	6.38E-08	9.44E-09	9.44E-09	5.26E-09	9.27E-08		7.25E-10	9.72E-09	1.47E-09	1.47E-09	8.10E-10	1.42E-08		3.94E-10	5.26E-09	6.56E-10	6.56E-10	3.25E-10	7.29E-09
2996	257945.19	4086640.15	4.70E-09	6.28E-08	9.29E-09	9.29E-09	5.18E-09	9.12E-08		7.13E-10	9.57E-09	1.45E-09	1.45E-09	7.97E-10	1.40E-08		3.87E-10	5.18E-09	6.45E-10	6.45E-10	3.19E-10	7.17E-09
2997	257969.48	4086639.07	4.62E-09	6.17E-08	9.13E-09	9.13E-09	5.09E-09	8.97E-08		7.01E-10	9.40E-09	1.43E-09	1.43E-09	7.84E-10	1.37E-08		3.81E-10	5.09E-09	6.34E-10	6.34E-10	3.14E-10	7.05E-09
2998	257993.76	4086638	4.53E-09	6.06E-08	8.96E-09	8.96E-09	5.00E-09	8.80E-08		6.88E-10	9.23E-09	1.40E-09	1.40E-09	7.69E-10	1.35E-08		3.74E-10	4.99E-09	6.23E-10	6.23E-10	3.08E-10	6.92E-09
2999	258018.04	4086636.92	4.45E-09	5.94E-08	8.78E-09	8.78E-09	4.90E-09	8.63E-08		6.75E-10	9.05E-09	1.37E-09	1.37E-09	7.54E-10	1.32E-08		3.66E-10	4.89E-09	6.10E-10	6.10E-10	3.02E-10	6.78E-09
3000	258042.32	4086635.85	4.35E-09	5.82E-08	8.60E-09	8.60E-09	4.80E-09	8.45E-08		6.61E-10	8.86E-09	1.34E-09	1.34E-09	7.39E-10	1.29E-08		3.59E-10	4.79E-09	5.98E-10	5.98E-10	2.96E-10	6.64E-09
3001	258066.6	4086634.77	4.26E-09	5.69E-08	8.42E-09	8.42E-09	4.70E-09	8.27E-08		6.47E-10	8.67E-09	1.32E-09	1.32E-09	7.23E-10	1.27E-08		3.51E-10	4.69E-09	5.85E-10	5.85E-10	2.90E-10	6.50E-09
3002	258090.89	4086633.7	4.17E-09	5.57E-08	8.25E-09	8.25E-09	4.60E-09	8.10E-08		6.33E-10	8.49E-09	1.29E-09	1.29E-09	7.08E-10	1.24E-08		3.44E-10	4.59E-09	5.73E-10	5.73E-10	2.84E-10	6.37E-09
3003	258115.17	4086632.62	4.08E-09	5.46E-08	8.07E-09	8.07E-09	4.50E-09	7.93E-08		6.20E-10	8.31E-09	1.26E-09	1.26E-09	6.93E-10	1.21E-08		3.37E-10	4.50E-09	5.61E-10	5.61E-10	2.78E-10	6.23E-09
3004	258139.45	4086631.55	4.00E-09	5.34E-08	7.91E-09	7.91E-09	4.41E-09	7.77E-08		6.07E-10	8.14E-09	1.23E-09	1.23E-09	6.79E-10	1.19E-08		3.30E-10	4.40E-09	5.49E-10	5.49E-10	2.72E-10	6.10E-09
3005	258163.73	4086630.47	3.92E-09	5.24E-08	7.75E-09	7.75E-09	4.32E-09	7.62E-08		5.95E-10	7.98E-09	1.21E-09	1.21E-09	6.66E-10	1.17E-08		3.23E-10	4.32E-09	5.39E-10	5.39E-10	2.67E-10	5.99E-09
3006	258188.01	4086629.4	3.85E-09	5.15E-08	7.61E-09	7.61E-09	4.24E-09	7.48E-08		5.85E-10	7.84E-09	1.19E-09	1.19E-09	6.53E-10	1.15E-08		3.18E-10	4.24E-09	5.29E-10	5.29E-10	2.62E-10	5.88E-09
3007	258212.29	4086628.32	3.79E-09	5.06E-08	7.48E-09	7.48E-09	4.17E-09	7.35E-08		5.74E-10	7.70E-09	1.17E-09	1.17E-09	6.42E-10	1.13E-08		3.12E-10	4.17E-09	5.20E-10	5.20E-10	2.57E-10	5.78E-09
3008	258236.58	4086627.24	3.72E-09	4.97E-08	7.36E-09	7.36E-09	4.10E-09	7.23E-08		5.65E-10	7.58E-09	1.15E-09	1.15E-09	6.32E-10	1.11E-08		3.07E-10	4.10E-09	5.11E-10	5.11E-10	2.53E-10	5.68E-09
3009	258260.86	4086626.17	3.66E-09	4.89E-08	7.24E-09	7.24E-09	4.04E-09	7.11E-08		5.56E-10	7.46E-09	1.13E-09	1.13E-09	6.22E-10	1.09E-08		3.02E-10	4.03E-09	5.03E-10	5.03E-10	2.49E-10	5.59E-09
3010	258285.14	4086625.09	3.61E-09	4.82E-08	7.13E-09	7.13E-09	3.98E-09	7.01E-08		5.48E-10	7.34E-09	1.11E-09	1.11E-09	6.12E-10	1.07E-08		2.97E-10	3.97E-09	4.95E-10	4.95E-10	2.45E-10	5.51E-09
3011	258309.42	4086624.02	3.55E-09	4.75E-08	7.02E-09	7.02E-09	3.92E-09	6.90E-08		5.39E-10	7.23E-09	1.10E-09	1.10E-09	6.03E-10	1.06E-08		2.93E-10	3.91E-09	4.88E-10	4.88E-10	2.42E-10	5.42E-09
3012	258333.7	4086622.94	3.50E-09	4.68E-08	6.92E-09	6.92E-09	3.86E-09	6.79E-08		5.31E-10	7.12E-09	1.08E-09	1.08E-09	5.94E-10	1.04E-08		2.89E-10	3.85E-09	4.81E-10	4.81E-10	2.38E-10	5.34E-09
3013	258357.99	4086621.87	3.45E-09	4.61E-08	6.81E-09	6.81E-09	3.80E-09	6.69E-08		5.23E-10	7.02E-09	1.06E-09	1.06E-09	5.85E-10	1.03E-08		2.84E-10	3.80E-09	4.73E-10	4.73E-10	2.34E-10	5.26E-09
3014	258382.27	4086620.79	3.40E-09	4.54E-08	6.71E-09	6.71E-09	3.74E-09	6.59E-08		5.15E-10	6.91E-09	1.05E-09	1.05E-09	5.76E-10	1.01E-08		2.80E-10	3.74E-09	4.66E-10	4.66E-10	2.31E-10	5.18E-09
3015	258406.55	4086619.72	3.34E-09	4.47E-08	6.61E-09	6.61E-09	3.68E-09	6.49E-08		5.07E-10	6.80E-09	1.03E-09	1.03E-09	5.67E-10	9.94E-09		2.76E-10	3.68E-09	4.59E-10	4.59E-10	2.27E-10	5.10E-09
3016	258430.83	4086618.64	3.29E-09	4.40E-08	6.50E-09	6.50E-09	3.63E-09	6.39E-08		5.00E-10	6.70E-09	1.02E-09	1.02E-09	5.58E-10	9.79E-09		2.71E-10	3.62E-09	4.52E-10	4.52E-10	2.24E-10	5.02E-09

			UnMitigated		2004			T2L3					T4				
			2000	257758.52	4085171.97												
			6.76E-04	9.78E-03	7.21E-03	7.21E-03	4.02E-03	1.03E-04	1.49E-03	1.13E-03	1.13E-03	6.19E-04	5.57E-05	8.06E-04	5.01E-04	5.01E-04	2.48E-04
			Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
1	258389.45	4085119.38	2.39E-04	3.46E-03	2.55E-03	2.55E-03	1.42E-03	3.63E-05	5.26E-04	3.98E-04	3.98E-04	2.19E-04	1.97E-05	2.85E-04	1.77E-04	1.77E-04	8.76E-05
2	258388.73	4085094.62	3.81E-04	5.51E-03	4.06E-03	4.06E-03	2.26E-03	5.78E-05	8.39E-04	6.34E-04	6.34E-04	3.48E-04	3.14E-05	4.54E-04	2.82E-04	2.82E-04	1.40E-04
3	258388	4085069.87	5.28E-04	7.63E-03	5.63E-03	5.63E-03	3.14E-03	8.01E-05	1.16E-03	8.79E-04	8.79E-04	4.83E-04	4.35E-05	6.29E-04	3.91E-04	3.91E-04	1.93E-04
4	258387.28	4085045.11	6.21E-04	8.98E-03	6.62E-03	6.62E-03	3.69E-03	9.42E-05	1.37E-03	1.03E-03	1.03E-03	5.68E-04	5.12E-05	7.40E-04	4.60E-04	4.60E-04	2.28E-04
5	258386.56	4085020.36	6.74E-04	9.75E-03	7.19E-03	7.19E-03	4.01E-03	1.02E-04	1.49E-03	1.12E-03	1.12E-03	6.17E-04	5.56E-05	8.04E-04	4.99E-04	4.99E-04	2.47E-04
6	258385.84	4084995.6	7.00E-04	1.01E-02	7.46E-03	7.46E-03	4.16E-03	1.06E-04	1.54E-03	1.17E-03	1.17E-03	6.41E-04	5.77E-05	8.35E-04	5.18E-04	5.18E-04	2.57E-04
7	258385.11	4084970.84	7.00E-04	1.01E-02	7.46E-03	7.46E-03	4.16E-03	1.06E-04	1.54E-03	1.17E-03	1.17E-03	6.41E-04	5.77E-05	8.35E-04	5.19E-04	5.19E-04	2.57E-04
8	258384.39	4084946.09	6.71E-04	9.71E-03	7.16E-03	7.16E-03	3.99E-03	1.02E-04	1.48E-03	1.12E-03	1.12E-03	6.14E-04	5.53E-05	8.00E-04	4.97E-04	4.97E-04	2.46E-04
9	258383.67	4084921.33	5.79E-04	8.37E-03	6.17E-03	6.17E-03	3.44E-03	8.79E-05	1.28E-03	9.64E-04	9.64E-04	5.30E-04	4.77E-05	6.90E-04	4.29E-04	4.29E-04	2.12E-04
10	258407.76	4085136.4	1.47E-04	2.13E-03	1.57E-03	1.57E-03	8.74E-04	2.23E-05	3.24E-04	2.45E-04	2.45E-04	1.35E-04	1.21E-05	1.75E-04	1.09E-04	1.09E-04	5.39E-05
11	258383.88	4085162.1	1.42E-04	2.05E-03	1.51E-03	1.51E-03	8.43E-04	2.15E-05	3.13E-04	2.36E-04	2.36E-04	1.30E-04	1.17E-05	1.69E-04	1.05E-04	1.05E-04	5.20E-05
12	258413.72	4085093.9	2.34E-04	3.39E-03	2.50E-03	2.50E-03	1.39E-03	3.56E-05	5.16E-04	3.90E-04	3.90E-04	2.14E-04	1.93E-05	2.79E-04	1.74E-04	1.74E-04	8.59E-05
13	258412.99	4085069.14	3.15E-04	4.55E-03	3.35E-03	3.35E-03	1.87E-03	4.78E-05	6.93E-04	5.24E-04	5.24E-04	2.88E-04	2.59E-05	3.75E-04	2.33E-04	2.33E-04	1.15E-04
14	258412.27	4085044.38	3.83E-04	5.54E-03	4.09E-03	4.09E-03	2.28E-03	5.82E-05	8.45E-04	6.38E-04	6.38E-04	3.51E-04	3.16E-05	4.57E-04	2.84E-04	2.84E-04	1.40E-04
15	258411.55	4085019.63	4.32E-04	6.25E-03	4.60E-03	4.60E-03	2.57E-03	6.55E-05	9.51E-04	7.19E-04	7.19E-04	3.95E-04	3.56E-05	5.15E-04	3.20E-04	3.20E-04	1.58E-04
16	258410.83	4084994.87	4.61E-04	6.67E-03	4.92E-03	4.92E-03	2.74E-03	7.00E-05	1.02E-03	7.67E-04	7.67E-04	4.22E-04	3.80E-05	5.50E-04	3.41E-04	3.41E-04	1.69E-04
17	258410.1	4084970.11	4.72E-04	6.83E-03	5.03E-03	5.03E-03	2.81E-03	7.17E-05	1.04E-03	7.86E-04	7.86E-04	4.32E-04	3.89E-05	5.63E-04	3.50E-04	3.50E-04	1.73E-04
18	258409.38	4084945.36	4.63E-04	6.70E-03	4.93E-03	4.93E-03	2.75E-03	7.03E-05	1.02E-03	7.71E-04	7.71E-04	4.24E-04	3.82E-05	5.52E-04	3.43E-04	3.43E-04	1.70E-04
19	258408.66	4084920.6	4.30E-04	6.21E-03	4.58E-03	4.58E-03	2.55E-03	6.52E-05	9.46E-04	7.15E-04	7.15E-04	3.93E-04	3.54E-05	5.12E-04	3.18E-04	3.18E-04	1.57E-04
20	258432.75	4085135.67	1.16E-04	1.67E-03	1.23E-03	1.23E-03	6.88E-04	1.76E-05	2.55E-04	1.93E-04	1.93E-04	1.06E-04	9.54E-06	1.38E-04	8.57E-05	8.57E-05	4.24E-05
21	258402.2	4085179.12	1.02E-04	1.48E-03	1.09E-03	1.09E-03	6.06E-04	1.55E-05	2.25E-04	1.70E-04	1.70E-04	9.34E-05	8.41E-06	1.22E-04	7.56E-05	7.56E-05	3.74E-05
22	258438.71	4085093.17	1.66E-04	2.40E-03	1.77E-03	1.77E-03	9.88E-04	2.52E-05	3.66E-04	2.77E-04	2.77E-04	1.52E-04	1.37E-05	1.98E-04	1.23E-04	1.23E-04	6.09E-05
23	258437.98	4085068.41	2.14E-04	3.09E-03	2.28E-03	2.28E-03	1.27E-03	3.24E-05	4.70E-04	3.55E-04	3.55E-04	1.95E-04	1.76E-05	2.55E-04	1.58E-04	1.58E-04	7.83E-05
24	258437.26	4085043.65	2.61E-04	3.77E-03	2.78E-03	2.78E-03	1.55E-03	3.96E-05	5.74E-04	4.34E-04	4.34E-04	2.39E-04	2.15E-05	3.11E-04	1.93E-04	1.93E-04	9.56E-05
25	258436.54	4085018.9	3.00E-04	4.34E-03	3.20E-03	3.20E-03	1.78E-03	4.55E-05	6.61E-04	4.99E-04	4.99E-04	2.74E-04	2.47E-05	3.57E-04	2.22E-04	2.22E-04	1.10E-04
26	258435.82	4084994.14	3.28E-04	4.74E-03	3.49E-03	3.49E-03	1.95E-03	4.97E-05	7.22E-04	5.45E-04	5.45E-04	3.00E-04	2.70E-05	3.91E-04	2.43E-04	2.43E-04	1.20E-04
27	258435.09	4084969.38	3.43E-04	4.96E-03	3.66E-03	3.66E-03	2.04E-03	5.21E-05	7.56E-04	5.71E-04	5.71E-04	3.14E-04	2.83E-05	4.09E-04	2.54E-04	2.54E-04	1.26E-04
28	258434.37	4084944.63	3.45E-04	4.99E-03	3.68E-03	3.68E-03	2.05E-03	5.23E-05	7.60E-04	5.74E-04	5.74E-04	3.16E-04	2.84E-05	4.11E-04	2.55E-04	2.55E-04	1.26E-04
29	258433.65	4084919.87	3.33E-04	4.82E-03	3.55E-03	3.55E-03	1.98E-03	5.06E-05	7.34E-04	5.55E-04	5.55E-04	3.05E-04	2.75E-05	3.97E-04	2.47E-04	2.47E-04	1.22E-04
30	258457.74	4085134.94	9.45E-05	1.37E-03	1.01E-03	1.01E-03	5.62E-04	1.43E-05	2.08E-04	1.57E-04	1.57E-04	8.65E-05	7.79E-06	1.13E-04	7.00E-05	7.00E-05	3.46E-05
31	258444.39	4085170.43	7.99E-05	1.16E-03	8.52E-04	8.52E-04	4.75E-04	1.21E-05	1.76E-04	1.33E-04	1.33E-04	7.31E-05	6.59E-06	9.53E-05	5.92E-05	5.92E-05	2.93E-05
32	258420.51	4085196.14	7.84E-05	1.13E-03	8.36E-04	8.36E-04	4.66E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.17E-05	6.46E-06	9.35E-05	5.81E-05	5.81E-05	2.87E-05
33	258386.09	4085212.05	8.81E-05	1.27E-03	9.39E-04	9.39E-04	5.23E-04	1.34E-05	1.94E-04	1.47E-04	1.47E-04	8.06E-05	7.26E-06	1.05E-04	6.52E-05	6.52E-05	3.23E-05
34	258463.69	4085092.44	1.27E-04	1.84E-03	1.36E-03	1.36E-03	7.57E-04	1.93E-05	2.81E-04	2.12E-04	2.12E-04	1.17E-04	1.05E-05	1.52E-04	9.43E-05	9.43E-05	4.67E-05
35	258462.97	4085067.68	1.58E-04	2.28E-03	1.68E-03	1.68E-03	9.37E-04	2.39E-05	3.47E-04	2.62E-04	2.62E-04	1.44E-04	1.30E-05	1.88E-04	1.17E-04	1.17E-04	5.78E-05
36	258462.25	4085042.92	1.90E-04	2.75E-03	2.03E-03	2.03E-03	1.13E-03	2.89E-05	4.19E-04	3.16E-04	3.16E-04	1.74E-04	1.57E-05	2.27E-04	1.41E-04	1.41E-04	6.97E-05
37	258461.53	4085018.17	2.20E-04	3.18E-03	2.35E-03	2.35E-03	1.31E-03	3.34E-05	4.85E-04	3.66E-04	3.66E-04	2.01E-04	1.81E-05	2.62E-04	1.63E-04	1.63E-04	8.07E-05
38	258460.8	4084993.41	2.44E-04	3.53E-03	2.60E-03	2.60E-03	1.45E-03	3.71E-05	5.38E-04	4.06E-04	4.06E-04	2.23E-04	2.01E-05	2.91E-04	1.81E-04	1.81E-04	8.95E-05
39	258460.08	4084968.66	2.60E-04	3.77E-03	2.78E-03	2.78E-03	1.55E-03	3.95E-05	5.74E-04	4.33E-04	4.33E-04	2.38E-04	2.15E-05	3.10E-04	1.93E-04	1.93E-04	9.54E-05
40	258459.36	4084943.9	2.67E-04	3.87E-03	2.85E-03	2.85E-03	1.59E-03	4.06E-05	5.89E-04	4.45E-04	4.45E-04	2.45E-04	2.20E-05	3.19E-04	1.98E-04	1.98E-04	9.80E-05
41	258458.64	4084919.14	2.64E-04	3.82E-03	2.81E-03	2.81E-03	1.57E-03	4.01E-05	5.82E-04	4.39E-04	4.39E-04	2.42E-04	2.18E-05	3.15E-04	1.96E-04	1.96E-04	9.68E-05
42	258506.39	4085137.03	6.69E-05	9.67E-04	7.13E-04	7.13E-04	3.97E-04	1.02E-05	1.47E-04	1.11E-04	1.11E-04	6.12E-05	5.51E-06	7.97E-05	4.95E-05	4.95E-05	2.45E-05
43	258498.38	4085158.32	6.18E-05	8.94E-04	6.59E-04	6.59E-04	3.67E-04	9.38E-06	1.36E-04	1.03E-04	1.03E-04	5.65E-05	5.09E-06	7.37E-05	4.58E-05	4.58E-05	2.26E-05
44	258490.37	4085179.62	5.71E-05	8.26E-04	6.09E-04	6.09E-04	3.40E-04	8.67E-06	1.26E-04	9.51E-05	9.51E-05	5.23E-05	4.71E-06	6.81E-05	4.23E-05	4.23E-05	2.09E-05
45	258482.36	4085200.92	5.30E-05	7.66E-04	5.65E-04	5.65E-04	3.15E-04	8.04E-06	1.17E-04	8.82E-05	8.82E-05	4.85E-05	4.37E-06	6.32E-05	3.92E-05	3.92E-05	1.94E-05
46	258453.7	4085231.76	5.22E-05	7.55E-04	5.56E-04	5.56E-04	3.10E-04	7.92E-06	1.15E-04	8.69E-05	8.69E-05	4.78E-05	4.30E-06	6.22E-05	3.87E-05	3.87E-05	1.91E-05
47	258433.05	4085241.31	5.52E-05	7.99E-04	5.89E-04	5.89E-04	3.28E-04	8.38E-06	1.22E-04	9.19E-05	9.19E-05	5.05E-05	4.55E-06	6.59E-05	4.09E-05	4.09E-05	2.02E-05
48	258412.4	4085250.86	5.83E-05	8.44E-04	6.22E-04	6.22E-04	3.47E-04	8.85E-06	1.29E-04	9.71E-05	9.71E-05	5.34E-05	4.81E-06	6.96E-05	4.32E-05	4.32E-05	2.14E-05
49	258391.75	4085260.41	6.15E-05	8.89E-04	6.55E-04	6.55E-04	3.65E-04	9.33E-06	1.35E-04	1.02E-04	1.02E-04	5.63E-05	5.07E-06	7.33E-05	4.55E-05	4.55E-05	2.25E-05
50	258514.4	4085115.73	7.23E-05	1.05E-03	7.71E-04	7.71E-04	4.30E-04	1.10E-05	1.59E-04	1.20E-04	1.20E-04	6.62E-05	5.96E-06	8.62E-05	5.35E-05	5.35E-05	2.65E-05
51	258513.67	4085090.98	8.46E-05	1.22E-03	9.02E-04	9.02E-04	5.03E-04	1.28E-05	1.86E-04	1.41E-04	1.41E-04	7.75E-05	6.98E-06	1.01E-04	6.27E-05	6.27E-05	3.10E-05
52	258512.95	4085066.22	9.95E-05	1.44E-03	1.06E-03	1.06E-03	5.91E-04	1.51E-05	2.19E-04	1.66E-04	1.66E-04	9.10E-05	8.20E-06	1.19E-04	7.37E-05	7.37E-05	3.65E-05
53	258512.23	4085041.47	1.16E-04	1.68E-03	1.24E-03	1.24E-03	6.90E-04	1.76E-05	2.56E-04	1.93E-04	1.93E-04	1.06E-04	9.57E-06	1.38E-04	8.60E-05	8.60E-05	4.26E-05
54	258511.51	4085016.71	1.33E-04	1.93E-03	1.42E-03	1.42E-03	7.92E-04	2.02E-05	2.94E-04	2.22E-04	2.22E-04	1.22E-04	1.10E-05	1.59E-04	9.87E-05	9.87E-05	4.89E-05
55	258510.78	4084991.95	1.49E-04	2.16E-03	1.59E-03	1.59E-03	8.87E-04	2.27E-05	3.29E-04	2.49E-04	2.49E-04	1.37E-04	1.23E-05	1.78E-04	1.11E-04	1.11E-04	5.47E-05
56	258510.06	4084967.2	1.63E-04	2.35E-03	1.73E-03	1.73E-03	9.66E-04	2.47E-05	3.58E-04	2.71E-04	2.71E-04	1.49E-04	1.34E-05	1.94E-04	1.20E-04	1.20E-04	5.96E-05
57	258509.34	4084942.44	1.72E-04	2.49E-03	1.83E-03	1.83E-03	1.02E-03	2.61E-05	3.79E-04	2.86E-04	2.86E-04	1.57E-04	1.42E-05	2.05E-04	1.27E-04	1.27E-04	6.31E-05
58	258508.62	4084917.68	1.77E-04	2.56E-03	1.89E-03	1.89E-03	1.05E-03	2.68E-05	3.90E-04	2.94E-04	2.94E-04	1.62E-04	1.46E-05	2.11E-04	1.31E-04	1.31E-04	6.48E-05
59	258556.75	4085134.56	5.12E-05	7.41E-04	5.46E-04	5.46E-04	3.05E-04	7.78E-06	1.13E-04	8.53E-05	8.53E-05	4.69E-05	4.22E-06	6.11E-05	3.80E-05	3.80E-05	1.88E-05
60	258541.49	4085175.12	4.54E-05	6.56E-04	4.84E-04	4.84E-04	2.70E-04	6.88E-06	9.99E-05	7.55E-05	7.55E-05	4.15E-05	3.74E-06	5.41E-05	3.36E-05	3.36E-05	1.66E-05
61	258526.23	4085215.68	4.01E-05	5.80E-04	4.28E-04	4.28E-04	2.38E-04	6.09E-06	8.84E-05	6.68E-05	6.68E-05	3.67E-05	3.31E-06	4.78E-05	2.97E-05	2.97E-05	1.47E-05
62	258491.31	4085265.34	3.74E-05	5.41E-04	3.99E-04	3.99E-04	2.22E-04	5.68E-06	8.24E-05	6.23E-05	6.23E-05	3.42E-05	3.08E-06	4.46E-05	2.77E-05	2.77E-05	1.37E-05
63	258451.98	4085283.53	4.10E-05	5.93E-04	4.37E-04	4.37E-04	2.44E-04	6.22E-06	9.03E-05	6.82E-05	6.82E-05	3.75E-05	3.38E-06	4.89E-05	3.04E-05	3.04E-05	1.50E-05
64	258412.64	4085301.72	4.46E-05	6.45E-04	4.76E-04	4.76E-04	2.65E-04	6.77E-06	9.83E-05	7.43E-05	7.43E-05	4.08E-05	3.68E-06	5.32E-05	3.30E-05	3.30E-05	1.64E-05
65	258563.65	4085089.52	6.16E-05	8.91E-04	6.57E-04	6.57E-04	3.66E-04	9.35E-06	1.36E-04	1.03E-04	1.03E-04	5.64E-05	5.08E-06	7.34E-05	4.56E-05	4.56E-05	2.26E-05
66	258562.93	4085064.76	7.01E-05	1.01E-03	7.47E-04	7.47E-04	4.17E-04	1.06E-05	1.54E-04	1.17E-04	1.17E-04	6.41E-05	5.78E-06	8.36E-05	5.19E-05	5.19E-05	2.57E-05
67	258562.21	4085040.01	7.97E-05	1.15E-03	8.49E-04	8.49E-04	4.73E-04	1.21E-05	1.76E-04	1.33E-04	1.33E-04	7.29E-05	6.57E-06	9.50E-05	5.90E-05	5.90E-05	2.92E-05
68	258561.48	4085015.25	8.99E-05	1.30E-03	9.59E-04	9.59E-04	5.34E-04	1.36E-05	1.98E-04	1.50E-04	1.50E-04	8.23E-05	7.41E-06	1.07E-04	6.66E-05	6.66E-05	3.30E-05
69	258560.76	4084990.49	1.00E-04	1.45E-03	1.07E-03	1.07E-03	5.96E-04	1.52E-05	2.21E-04	1.67E-04	1.67E-04	9.17E-05	8.26E-06	1.19E-04	7.42E-05	7.42E-05	3.67E-05
70	258560.04	4084965.74	1.10E-04	1.59E-03	1.17E-03	1.17E-03	6.53E-04	1.67E-05	2.42E-04	1.83E-04	1.83E-04	1.01E-04	9.05E-06	1.31E-04	8.13E-05	8.13E-05	4.03E-05
71	258559.32	4084940.98	1.18E-04	1.71E-03	1.26E-03	1.26E-03	7.01E-04	1.79E-05	2.60E-04	1.96E-04	1.96E-04	1.08E-04	9.73E-06	1.41E-04	8.74E-05	8.74E-05	4.33E-05
72	258558.59	4084916.23	1.24E-04	1.80E-03	1.32E-03	1.32E-03	7.38E-04	1.88E-05	2.73E-04	2.07E-04	2.07E-04	1.14E-04	1.02E-05	1.48E-04	9.19E-05	9.19E-05	4.55E-05
73	258606.01	4085135	4.05E-05	5.85E-04	4.31E-04	4.31E-04	2.40E-04	6.14E-06	8.91E-05	6.73E-05	6.73E-05	3.70E-05	3.33E-06	4.82E-05	3.00E-05	3.00E-05	1.48E-05
74	258597.67	4085157.18	3.83E-05	5.54E-04	4.08E-04	4.08E-04	2.28E-04	5.81E-06	8.44E-05	6.38E-05	6.38E-05	3.51E-05	3.16E-06	4.57E-05	2.84E-05	2.84E-05	1.40E-05
75	258589.32	4085179.36	3.62E-05	5.24E-04	3.86E-04	3.86E-04	2.15E-04	5.49E-06	7.98E-05	6.03E-05	6.03E-05	3.31E-05	2.98E-06	4.32E-05	2.68E-05	2.68E-05	1.33E-05
76	258580.98	4085201.55	3.42E-05	4.94E-04	3.64E-04	3.64E-04	2.03E-04	5.18E-06	7.53E-05	5.69E-05	5.69E-05	3.13E-05	2.82E-06	4.07E-05	2.53E-05	2.53E-05	1.25E-05
77	258572.64	4085223.73	3.22E-05	4.66E-04	3.44E-04	3.44E-04	1.92E-04	4.89E-06	7.10E-05	5.37E-05	5.37E-05	2.95E-05	2.66E-06	3.84E-05	2.39E-05	2.39E-05	1.18E-05
78	258564.29	4085245.91	3.05E-05	4.40E-04	3.25E-04	3.25E-04	1.81E-04	4.62E-06	6.71E-05	5.07E-05	5.07E-05	2.79E-05	2.51E-06	3.63E-05	2.26E-05	2.26E-05	1.12E-05
79	258555.95	4085268.1	2.88E-05	4.17E-04	3.07E-04	3.07E-04	1.71E-04	4.38E-06	6.35E-05	4.80E-05	4.80E-05	2.64E-05	2.38E-06	3.44E-05	2.13E-05	2.13E-05	1.06E-05
80	258526.1	4085300.23	2.85E-05	4.12E-04	3.04E-04	3.04E-04	1.69E-04	4.33E-06	6.28E-05	4.75E-05	4.75E-05	2.61E-05	2.35E-06	3.40E-05	2.11E-05	2.11E-05	1.05E-05
81	258504.59	4085310.17	2.98E-05	4.31E-04	3.18E-04	3.18E-04	1.77E-04	4.52E-06	6.56E-05	4.96E-05	4.96E-05	2.73E-05	2.46E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
82	258483.08	4085320.12	3.11E-05	4.50E-04	3.32E-04	3.32E-04	1.85E-04	4.73E-06	6.86E-05	5.18E-05	5.18E-05	2.85E-05	2.57E-06	3.71E-05	2.31E-05	2.31E-05	1.14E-05
83	258461.56	4085330.07	3.25E-05	4.70E-04	3.46E-04	3.46E-04	1.93E-04	4.93E-06	7.16E-05	5.41E-05	5.41E-05	2.97E-05	2.68E-06	3.87E-05	2.41E-05	2.41E-05	1.19E-05
84	258440.05	4085340.02	3.38E-05	4.89E-04	3.60E-04	3.60E-04	2.01E-04	5.13E-06	7.45E-05	5.63E-05	5.63E-05	3.09E-05	2.79E-06	4.03E-05	2.50E-05	2.50E-05	1.24E-05
85	258418.54	4085349.97	3.51E-05	5.08E-04	3.74E-04	3.74E-04	2.09E-04	5.33E-06	7.74E-05	5.84E-05	5.84E-05	3.21E-05	2.89E-06	4.19E-05	2.60E-05	2.60E-05	1.29E-05
86	258397.03	4085359.92	3.65E-05	5.28E-04	3.89E-04	3.89E-04	2.17E-04	5.54E-06	8.04E-05	6.07E-05	6.07E-05	3.34E-05	3.01E-06	4.35E-05	2.70E-05	2.70E-05	1.34E-05
87	258614.35	4085112.82	4.26E-05	6.16E-04	4.54E-04	4.54E-04	2.53E-04	6.47E-06	9.39E-05	7.09E-05	7.09E-05	3.90E-05	3.51E-06	5.08E-05	3.15E-05	3.15E-05	1.56E-05
88	258613.63	4085088.06	4.73E-05	6.84E-04	5.04E-04	5.04E-04	2.81E-04	7.18E-06	1.04E-04	7.87E-05	7.87E-05	4.33E-05	3.90E-06	5.64E-05	3.50E-05	3.50E-05	1.73E-05
89	258612.91	4085063.3	5.27E-05	7.62E-04	5.61E-04	5.61E-04	3.13E-04	7.99E-06	1.16E-04	8.76E-05	8.76E-05	4.82E-05	4.34E-06	6.28E-05	3.90E-05	3.90E-05	1.93E-05
90	258612.19	4085038.55	5.87E-05	8.48E-04	6.25E-04	6.25E-04	3.49E-04	8.90E-06	1.29E-04	9.76E-05	9.76E-05	5.37E-05	4.83E-06	6.99E-05	4.34E-05	4.34E-05	2.15E-05
91	258611.46	4085013.79	6.52E-05	9.43E-04	6.95E-04	6.95E-04	3.87E-04	9.89E-06	1.44E-04	1.08E-04	1.08E-04	5.96E-05	5.37E-06	7.77E-05	4.83E-05	4.83E-05	2.39E-05
92	258610.74	4084989.04	7.20E-05	1.04E-03	7.67E-04	7.67E-04	4.28E-04	1.09E-05	1.59E-04	1.20E-04	1.20E-04	6.59E-05	5.93E-06	8.58E-05	5.33E-05	5.33E-05	2.64E-05
93	258610.02	4084964.28	7.87E-05	1.14E-03	8.39E-04	8.39E-04	4.68E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.20E-05	6.49E-06	9.38E-05	5.83E-05	5.83E-05	2.89E-05
94	258609.3	4084939.52	8.50E-05	1.23E-03	9.07E-04	9.07E-04	5.05E-04	1.29E-05	1.87E-04	1.42E-04	1.42E-04	7.78E-05	7.01E-06	1.01E-04	6.30E-05	6.30E-05	3.12E-05
95	258608.57	4084914.77	9.05E-05	1.31E-03	9.64E-04	9.64E-04	5.38E-04	1.37E-05	1.99E-04	1.51E-04	1.51E-04	8.28E-05	7.46E-06	1.08E-04	6.70E-05	6.70E-05	3.32E-05
96	258656.32	4085132.65	3.31E-05	4.78E-04	3.52E-04	3.52E-04	1.96E-04	5.02E-06	7.28E-05	5.50E-05	5.50E-05	3.02E-05	2.72E-06	3.94E-05	2.45E-05	2.45E-05	1.21E-05
97	258648.31	4085153.95	3.17E-05	4.58E-04	3.37E-04	3.37E-04	1.88E-04	4.80E-06	6.97E-05	5.27E-05	5.27E-05	2.90E-05	2.61E-06	3.77E-05	2.34E-05	2.34E-05	1.16E-05
98	258640.3	4085175.24	3.02E-05	4.37E-04	3.22E-04	3.22E-04	1.80E-04	4.59E-06	6.66E-05	5.03E-05	5.03E-05	2.77E-05	2.49E-06	3.60E-05	2.24E-05	2.24E-05	1.11E-05
99	258632.29	4085196.54	2.88E-05	4.17E-04	3.07E-04	3.07E-04	1.71E-04	4.37E-06	6.35E-05	4.80E-05	4.80E-05	2.64E-05	2.38E-06	3.44E-05	2.13E-05	2.13E-05	1.06E-05
100	258624.28	4085217.83	2.75E-05	3.97E-04	2.93E-04	2.93E-04	1.63E-04	4.17E-06	6.05E-05	4.57E-05	4.57E-05	2.51E-05	2.26E-06	3.27E-05	2.03E-05	2.03E-05	1.01E-05
101	258616.27	4085239.13	2.61E-05	3.78E-04	2.79E-04	2.79E-04	1.55E-04	3.97E-06	5.76E-05	4.35E-05	4.35E-05	2.39E-05	2.16E-06	3.12E-05	1.94E-05	1.94E-05	9.59E-06

102	258608.27	4085260.43	2.49E-05	3.60E-04	2.66E-04	2.66E-04	1.48E-04	3.78E-06	5.49E-05	4.15E-05	4.15E-05	2.28E-05	2.05E-06	2.97E-05	1.84E-05	1.84E-05	9.13E-06
103	258600.26	4085281.72	2.38E-05	3.44E-04	2.53E-04	2.53E-04	1.41E-04	3.61E-06	5.24E-05	3.95E-05	3.95E-05	2.17E-05	1.96E-06	2.83E-05	1.76E-05	1.76E-05	8.71E-06
104	258592.25	4085303.02	2.27E-05	3.28E-04	2.42E-04	2.42E-04	1.35E-04	3.45E-06	5.00E-05	3.78E-05	3.78E-05	2.08E-05	1.87E-06	2.71E-05	1.68E-05	1.68E-05	8.32E-06
105	258563.59	4085333.86	2.25E-05	3.25E-04	2.40E-04	2.40E-04	1.34E-04	3.41E-06	4.96E-05	3.74E-05	3.74E-05	2.06E-05	1.85E-06	2.68E-05	1.67E-05	1.67E-05	8.25E-06
106	258542.94	4085343.41	2.33E-05	3.37E-04	2.49E-04	2.49E-04	1.39E-04	3.54E-06	5.14E-05	3.88E-05	3.88E-05	2.13E-05	1.92E-06	2.78E-05	1.73E-05	1.73E-05	8.55E-06
107	258522.29	4085352.96	2.42E-05	3.50E-04	2.58E-04	2.58E-04	1.44E-04	3.68E-06	5.34E-05	4.03E-05	4.03E-05	2.22E-05	2.00E-06	2.89E-05	1.79E-05	1.79E-05	8.88E-06
108	258501.64	4085362.51	2.52E-05	3.64E-04	2.68E-04	2.68E-04	1.50E-04	3.82E-06	5.55E-05	4.19E-05	4.19E-05	2.30E-05	2.07E-06	3.00E-05	1.86E-05	1.86E-05	9.23E-06
109	258480.99	4085372.06	2.61E-05	3.78E-04	2.78E-04	2.78E-04	1.55E-04	3.96E-06	5.75E-05	4.34E-05	4.34E-05	2.39E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.57E-06
110	258460.34	4085381.61	2.70E-05	3.90E-04	2.88E-04	2.88E-04	1.60E-04	4.10E-06	5.95E-05	4.49E-05	4.49E-05	2.47E-05	2.22E-06	3.22E-05	2.00E-05	2.00E-05	9.89E-06
111	258439.68	4085391.16	2.79E-05	4.03E-04	2.97E-04	2.97E-04	1.66E-04	4.23E-06	6.14E-05	4.64E-05	4.64E-05	2.55E-05	2.30E-06	3.32E-05	2.06E-05	2.06E-05	1.02E-05
112	258419.03	4085400.72	2.88E-05	4.16E-04	3.06E-04	3.06E-04	1.71E-04	4.36E-06	6.34E-05	4.79E-05	4.79E-05	2.63E-05	2.37E-06	3.43E-05	2.13E-05	2.13E-05	1.05E-05
113	258398.38	4085410.27	2.97E-05	4.29E-04	3.16E-04	3.16E-04	1.76E-04	4.51E-06	6.54E-05	4.94E-05	4.94E-05	2.72E-05	2.45E-06	3.54E-05	2.20E-05	2.20E-05	1.09E-05
114	258664.33	4085111.36	3.44E-05	4.98E-04	3.67E-04	3.67E-04	2.05E-04	5.23E-06	7.59E-05	5.73E-05	5.73E-05	3.15E-05	2.84E-06	4.11E-05	2.55E-05	2.55E-05	1.26E-05
115	258663.61	4085086.6	3.77E-05	5.45E-04	4.02E-04	4.02E-04	2.24E-04	5.72E-06	8.30E-05	6.27E-05	6.27E-05	3.45E-05	3.11E-06	4.49E-05	2.79E-05	2.79E-05	1.38E-05
116	258662.89	4085061.85	4.13E-05	5.97E-04	4.40E-04	4.40E-04	2.45E-04	6.27E-06	9.10E-05	6.87E-05	6.87E-05	3.78E-05	3.40E-06	4.92E-05	3.06E-05	3.06E-05	1.51E-05
117	258662.16	4085037.09	4.53E-05	6.55E-04	4.83E-04	4.83E-04	2.69E-04	6.88E-06	9.98E-05	7.54E-05	7.54E-05	4.15E-05	3.74E-06	5.40E-05	3.36E-05	3.36E-05	1.66E-05
118	258661.44	4085012.33	4.97E-05	7.19E-04	5.30E-04	5.30E-04	2.95E-04	7.54E-06	1.09E-04	8.27E-05	8.27E-05	4.55E-05	4.10E-06	5.92E-05	3.68E-05	3.68E-05	1.82E-05
119	258660.72	4084987.58	5.43E-05	7.86E-04	5.79E-04	5.79E-04	3.23E-04	8.25E-06	1.20E-04	9.04E-05	9.04E-05	4.97E-05	4.48E-06	6.48E-05	4.02E-05	4.02E-05	1.99E-05
120	258660	4084962.82	5.91E-05	8.55E-04	6.30E-04	6.30E-04	3.51E-04	8.97E-06	1.30E-04	9.84E-05	9.84E-05	5.41E-05	4.87E-06	7.05E-05	4.38E-05	4.38E-05	2.17E-05
121	258659.27	4084938.06	6.38E-05	9.23E-04	6.81E-04	6.81E-04	3.79E-04	9.69E-06	1.41E-04	1.06E-04	1.06E-04	5.84E-05	5.26E-06	7.61E-05	4.73E-05	4.73E-05	2.34E-05
122	258658.55	4084913.31	6.82E-05	9.87E-04	7.27E-04	7.27E-04	4.06E-04	1.04E-05	1.50E-04	1.14E-04	1.14E-04	6.24E-05	5.62E-06	8.14E-05	5.05E-05	5.05E-05	2.50E-05
123	258756.07	4085130.28	2.34E-05	3.38E-04	2.49E-04	2.49E-04	1.39E-04	3.55E-06	5.15E-05	3.89E-05	3.89E-05	2.14E-05	1.93E-06	2.78E-05	1.73E-05	1.73E-05	8.56E-06
124	258747.86	4085152.12	2.26E-05	3.27E-04	2.41E-04	2.41E-04	1.34E-04	3.43E-06	4.98E-05	3.76E-05	3.76E-05	2.07E-05	1.86E-06	2.69E-05	1.67E-05	1.67E-05	8.28E-06
125	258739.64	4085173.97	2.18E-05	3.16E-04	2.33E-04	2.33E-04	1.30E-04	3.31E-06	4.81E-05	3.63E-05	3.63E-05	2.00E-05	1.80E-06	2.60E-05	1.62E-05	1.62E-05	8.00E-06
126	258731.43	4085195.81	2.10E-05	3.04E-04	2.24E-04	2.24E-04	1.25E-04	3.19E-06	4.63E-05	3.50E-05	3.50E-05	1.92E-05	1.73E-06	2.51E-05	1.56E-05	1.56E-05	7.71E-06
127	258723.22	4085217.65	2.02E-05	2.93E-04	2.16E-04	2.16E-04	1.20E-04	3.07E-06	4.46E-05	3.37E-05	3.37E-05	1.85E-05	1.67E-06	2.41E-05	1.50E-05	1.50E-05	7.42E-06
128	258715	4085239.49	1.95E-05	2.81E-04	2.07E-04	2.07E-04	1.16E-04	2.95E-06	4.29E-05	3.24E-05	3.24E-05	1.78E-05	1.60E-06	2.32E-05	1.44E-05	1.44E-05	7.13E-06
129	258706.79	4085261.33	1.87E-05	2.70E-04	1.99E-04	1.99E-04	1.11E-04	2.84E-06	4.12E-05	3.11E-05	3.11E-05	1.71E-05	1.54E-06	2.23E-05	1.38E-05	1.38E-05	6.85E-06
130	258698.57	4085283.17	1.80E-05	2.60E-04	1.91E-04	1.91E-04	1.07E-04	2.73E-06	3.96E-05	2.99E-05	2.99E-05	1.64E-05	1.48E-06	2.14E-05	1.33E-05	1.33E-05	6.58E-06
131	258690.36	4085305.01	1.72E-05	2.49E-04	1.84E-04	1.84E-04	1.02E-04	2.62E-06	3.80E-05	2.87E-05	2.87E-05	1.58E-05	1.42E-06	2.06E-05	1.28E-05	1.28E-05	6.32E-06
132	258682.14	4085326.85	1.65E-05	2.39E-04	1.76E-04	1.76E-04	9.83E-05	2.51E-06	3.64E-05	2.75E-05	2.75E-05	1.51E-05	1.36E-06	1.97E-05	1.22E-05	1.22E-05	6.06E-06
133	258673.93	4085348.7	1.60E-05	2.31E-04	1.70E-04	1.70E-04	9.48E-05	2.42E-06	3.51E-05	2.66E-05	2.66E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.85E-06
134	258665.71	4085370.54	1.54E-05	2.22E-04	1.64E-04	1.64E-04	9.13E-05	2.33E-06	3.38E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.83E-05	1.14E-05	1.14E-05	5.63E-06
135	258636.32	4085402.17	1.53E-05	2.21E-04	1.63E-04	1.63E-04	9.09E-05	2.32E-06	3.37E-05	2.54E-05	2.54E-05	1.40E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.60E-06
136	258615.14	4085411.97	1.57E-05	2.27E-04	1.68E-04	1.68E-04	9.35E-05	2.39E-06	3.47E-05	2.62E-05	2.62E-05	1.44E-05	1.30E-06	1.88E-05	1.16E-05	1.16E-05	5.77E-06
137	258593.96	4085421.76	1.62E-05	2.35E-04	1.73E-04	1.73E-04	9.64E-05	2.46E-06	3.57E-05	2.70E-05	2.70E-05	1.48E-05	1.34E-06	1.93E-05	1.20E-05	1.20E-05	5.95E-06
138	258572.78	4085431.56	1.68E-05	2.42E-04	1.79E-04	1.79E-04	9.96E-05	2.54E-06	3.69E-05	2.79E-05	2.79E-05	1.53E-05	1.38E-06	2.00E-05	1.24E-05	1.24E-05	6.14E-06
139	258551.6	4085441.36	1.73E-05	2.51E-04	1.85E-04	1.85E-04	1.03E-04	2.63E-06	3.82E-05	2.88E-05	2.88E-05	1.59E-05	1.43E-06	2.07E-05	1.28E-05	1.28E-05	6.35E-06
140	258530.42	4085451.15	1.79E-05	2.59E-04	1.91E-04	1.91E-04	1.06E-04	2.72E-06	3.94E-05	2.98E-05	2.98E-05	1.64E-05	1.48E-06	2.13E-05	1.33E-05	1.33E-05	6.56E-06
141	258509.24	4085460.95	1.84E-05	2.67E-04	1.96E-04	1.96E-04	1.10E-04	2.80E-06	4.06E-05	3.07E-05	3.07E-05	1.69E-05	1.52E-06	2.20E-05	1.36E-05	1.36E-05	6.75E-06
142	258488.06	4085470.74	1.89E-05	2.74E-04	2.02E-04	2.02E-04	1.12E-04	2.87E-06	4.17E-05	3.15E-05	3.15E-05	1.73E-05	1.56E-06	2.26E-05	1.40E-05	1.40E-05	6.94E-06
143	258466.88	4085480.54	1.94E-05	2.81E-04	2.07E-04	2.07E-04	1.15E-04	2.95E-06	4.28E-05	3.23E-05	3.23E-05	1.78E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.11E-06
144	258445.7	4085490.33	1.99E-05	2.88E-04	2.12E-04	2.12E-04	1.18E-04	3.02E-06	4.39E-05	3.31E-05	3.31E-05	1.82E-05	1.64E-06	2.37E-05	1.47E-05	1.47E-05	7.30E-06
145	258424.52	4085500.13	2.04E-05	2.96E-04	2.18E-04	2.18E-04	1.21E-04	3.10E-06	4.50E-05	3.40E-05	3.40E-05	1.87E-05	1.68E-06	2.44E-05	1.51E-05	1.51E-05	7.49E-06
146	258403.34	4085509.92	2.10E-05	3.04E-04	2.24E-04	2.24E-04	1.25E-04	3.19E-06	4.63E-05	3.49E-05	3.49E-05	1.92E-05	1.73E-06	2.50E-05	1.55E-05	1.55E-05	7.69E-06
147	258764.29	4085108.44	2.41E-05	3.49E-04	2.57E-04	2.57E-04	1.43E-04	3.66E-06	5.31E-05	4.01E-05	4.01E-05	2.21E-05	1.99E-06	2.87E-05	1.79E-05	1.79E-05	8.84E-06
148	258763.57	4085083.68	2.58E-05	3.73E-04	2.75E-04	2.75E-04	1.53E-04	3.92E-06	5.69E-05	4.30E-05	4.30E-05	2.36E-05	2.13E-06	3.08E-05	1.91E-05	1.91E-05	9.46E-06
149	258762.84	4085058.93	2.77E-05	4.01E-04	2.95E-04	2.95E-04	1.65E-04	4.21E-06	6.11E-05	4.61E-05	4.61E-05	2.54E-05	2.28E-06	3.30E-05	2.05E-05	2.05E-05	1.02E-05
150	258762.12	4085034.17	2.98E-05	4.31E-04	3.17E-04	3.17E-04	1.77E-04	4.52E-06	6.56E-05	4.96E-05	4.96E-05	2.73E-05	2.45E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
151	258761.4	4085009.42	3.20E-05	4.63E-04	3.41E-04	3.41E-04	1.90E-04	4.86E-06	7.06E-05	5.33E-05	5.33E-05	2.93E-05	2.64E-06	3.82E-05	2.37E-05	2.37E-05	1.17E-05
152	258760.68	4084984.66	3.44E-05	4.98E-04	3.67E-04	3.67E-04	2.05E-04	5.23E-06	7.59E-05	5.73E-05	5.73E-05	3.15E-05	2.84E-06	4.11E-05	2.55E-05	2.55E-05	1.26E-05
153	258759.95	4084959.9	3.70E-05	5.35E-04	3.95E-04	3.95E-04	2.20E-04	5.62E-06	8.15E-05	6.16E-05	6.16E-05	3.39E-05	3.05E-06	4.41E-05	2.74E-05	2.74E-05	1.36E-05
154	258759.23	4084935.15	3.97E-05	5.74E-04	4.23E-04	4.23E-04	2.36E-04	6.02E-06	8.74E-05	6.61E-05	6.61E-05	3.63E-05	3.27E-06	4.73E-05	2.94E-05	2.94E-05	1.45E-05
155	258758.51	4084910.39	4.24E-05	6.13E-04	4.52E-04	4.52E-04	2.52E-04	6.43E-06	9.34E-05	7.05E-05	7.05E-05	3.88E-05	3.49E-06	5.05E-05	3.14E-05	3.14E-05	1.55E-05
156	258855.9	4085127.71	1.76E-05	2.54E-04	1.87E-04	1.87E-04	1.04E-04	2.67E-06	3.87E-05	2.93E-05	2.93E-05	1.61E-05	1.45E-06	2.10E-05	1.30E-05	1.30E-05	6.44E-06
157	258847.56	4085149.89	1.71E-05	2.48E-04	1.83E-04	1.83E-04	1.02E-04	2.60E-06	3.77E-05	2.85E-05	2.85E-05	1.57E-05	1.41E-06	2.04E-05	1.27E-05	1.27E-05	6.28E-06
158	258839.22	4085172.07	1.66E-05	2.41E-04	1.77E-04	1.77E-04	9.89E-05	2.53E-06	3.67E-05	2.77E-05	2.77E-05	1.52E-05	1.37E-06	1.98E-05	1.23E-05	1.23E-05	6.10E-06
159	258830.87	4085194.25	1.61E-05	2.33E-04	1.72E-04	1.72E-04	9.59E-05	2.45E-06	3.56E-05	2.69E-05	2.69E-05	1.48E-05	1.33E-06	1.92E-05	1.20E-05	1.20E-05	5.92E-06
160	258822.53	4085216.44	1.56E-05	2.26E-04	1.67E-04	1.67E-04	9.29E-05	2.37E-06	3.45E-05	2.60E-05	2.60E-05	1.43E-05	1.29E-06	1.86E-05	1.16E-05	1.16E-05	5.73E-06
161	258814.19	4085238.62	1.51E-05	2.19E-04	1.61E-04	1.61E-04	9.00E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.80E-05	1.12E-05	1.12E-05	5.55E-06
162	258805.84	4085260.8	1.47E-05	2.12E-04	1.56E-04	1.56E-04	8.71E-05	2.22E-06	3.23E-05	2.44E-05	2.44E-05	1.34E-05	1.21E-06	1.75E-05	1.09E-05	1.09E-05	5.37E-06
163	258797.5	4085282.98	1.42E-05	2.05E-04	1.51E-04	1.51E-04	8.43E-05	2.15E-06	3.12E-05	2.36E-05	2.36E-05	1.30E-05	1.17E-06	1.69E-05	1.05E-05	1.05E-05	5.20E-06
164	258789.16	4085305.17	1.37E-05	1.98E-04	1.46E-04	1.46E-04	8.14E-05	2.08E-06	3.02E-05	2.28E-05	2.28E-05	1.25E-05	1.13E-06	1.63E-05	1.01E-05	1.01E-05	5.02E-06
165	258780.81	4085327.35	1.32E-05	1.91E-04	1.40E-04	1.40E-04	7.83E-05	2.00E-06	2.90E-05	2.19E-05	2.19E-05	1.21E-05	1.09E-06	1.57E-05	9.76E-06	9.76E-06	4.83E-06
166	258772.47	4085349.53	1.27E-05	1.84E-04	1.36E-04	1.36E-04	7.57E-05	1.93E-06	2.81E-05	2.12E-05	2.12E-05	1.17E-05	1.05E-06	1.52E-05	9.43E-06	9.43E-06	4.67E-06
167	258764.13	4085371.72	1.23E-05	1.78E-04	1.31E-04	1.31E-04	7.33E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.13E-06	9.13E-06	4.52E-06
168	258755.78	4085393.9	1.19E-05	1.73E-04	1.27E-04	1.27E-04	7.09E-05	1.81E-06	2.63E-05	1.99E-05	1.99E-05	1.09E-05	9.84E-07	1.42E-05	8.84E-06	8.84E-06	4.38E-06
169	258747.44	4085416.08	1.16E-05	1.67E-04	1.23E-04	1.23E-04	6.88E-05	1.76E-06	2.55E-05	1.93E-05	1.93E-05	1.06E-05	9.54E-07	1.38E-05	8.57E-06	8.57E-06	4.24E-06
170	258739.1	4085438.26	1.12E-05	1.62E-04	1.20E-04	1.20E-04	6.67E-05	1.70E-06	2.47E-05	1.87E-05	1.87E-05	1.03E-05	9.26E-07	1.34E-05	8.32E-06	8.32E-06	4.12E-06
171	258709.24	4085470.39	1.12E-05	1.61E-04	1.19E-04	1.19E-04	6.63E-05	1.69E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.19E-07	1.33E-05	8.26E-06	8.26E-06	4.09E-06
172	258687.73	4085480.34	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.78E-05	1.73E-06	2.51E-05	1.90E-05	1.90E-05	1.04E-05	9.40E-07	1.36E-05	8.45E-06	8.45E-06	4.18E-06
173	258666.22	4085490.29	1.17E-05	1.69E-04	1.25E-04	1.25E-04	6.95E-05	1.77E-06	2.58E-05	1.95E-05	1.95E-05	1.07E-05	9.64E-07	1.39E-05	8.66E-06	8.66E-06	4.29E-06
174	258644.71	4085500.24	1.20E-05	1.74E-04	1.28E-04	1.28E-04	7.14E-05	1.82E-06	2.65E-05	2.00E-05	2.00E-05	1.10E-05	9.90E-07	1.43E-05	8.89E-06	8.89E-06	4.40E-06
175	258623.2	4085510.19	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.15E-06	9.15E-06	4.53E-06
176	258601.69	4085520.14	1.27E-05	1.84E-04	1.36E-04	1.36E-04	7.57E-05	1.93E-06	2.81E-05	2.12E-05	2.12E-05	1.17E-05	1.05E-06	1.52E-05	9.44E-06	9.44E-06	4.67E-06
177	258580.18	4085530.08	1.31E-05	1.90E-04	1.40E-04	1.40E-04	7.81E-05	1.99E-06	2.89E-05	2.19E-05	2.19E-05	1.20E-05	1.08E-06	1.57E-05	9.73E-06	9.73E-06	4.82E-06
178	258558.67	4085540.03	1.35E-05	1.96E-04	1.44E-04	1.44E-04	8.05E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.12E-06	1.61E-05	1.00E-05	1.00E-05	4.96E-06
179	258537.16	4085549.98	1.39E-05	2.01E-04	1.48E-04	1.48E-04	8.26E-05	2.11E-06	3.06E-05	2.31E-05	2.31E-05	1.27E-05	1.15E-06	1.66E-05	1.03E-05	1.03E-05	5.10E-06
180	258515.65	4085559.93	1.42E-05	2.06E-04	1.51E-04	1.51E-04	8.45E-05	2.16E-06	3.13E-05	2.37E-05	2.37E-05	1.30E-05	1.17E-06	1.69E-05	1.05E-05	1.05E-05	5.21E-06
181	258494.14	4085569.88	1.45E-05	2.10E-04	1.55E-04	1.55E-04	8.62E-05	2.20E-06	3.20E-05	2.41E-05	2.41E-05	1.33E-05	1.20E-06	1.73E-05	1.07E-05	1.07E-05	5.32E-06
182	258472.63	4085579.83	1.48E-05	2.14E-04	1.58E-04	1.58E-04	8.81E-05	2.25E-06	3.26E-05	2.47E-05	2.47E-05	1.36E-05	1.22E-06	1.77E-05	1.10E-05	1.10E-05	5.43E-06
183	258451.12	4085589.78	1.52E-05	2.19E-04	1.62E-04	1.62E-04	9.01E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.81E-05	1.12E-05	1.12E-05	5.55E-06
184	258429.6	4085599.72	1.55E-05	2.24E-04	1.65E-04	1.65E-04	9.22E-05	2.35E-06	3.42E-05	2.58E-05	2.58E-05	1.42E-05	1.28E-06	1.85E-05	1.15E-05	1.15E-05	5.69E-06
185	258408.09	4085609.67	1.59E-05	2.30E-04	1.69E-04	1.69E-04	9.45E-05	2.41E-06	3.50E-05	2.65E-05	2.65E-05	1.45E-05	1.31E-06	1.89E-05	1.18E-05	1.18E-05	5.83E-06
186	258864.25	4085105.52	1.80E-05	2.61E-04	1.92E-04	1.92E-04	1.07E-04	2.73E-06	3.97E-05	3.00E-05	3.00E-05	1.65E-05	1.49E-06	2.15E-05	1.33E-05	1.33E-05	6.60E-06
187	258863.52	4085080.77	1.90E-05	2.75E-04	2.03E-04	2.03E-04	1.13E-04	2.89E-06	4.19E-05	3.17E-05	3.17E-05	1.74E-05	1.57E-06	2.27E-05	1.41E-05	1.41E-05	6.98E-06
188	258862.8	4085056.01	2.01E-05	2.91E-04	2.15E-04	2.15E-04	1.20E-04	3.06E-06	4.44E-05	3.35E-05	3.35E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.38E-06
189	258862.08	4085031.26	2.13E-05	3.09E-04	2.28E-04	2.28E-04	1.27E-04	3.24E-06	4.70E-05	3.55E-05	3.55E-05	1.95E-05	1.76E-06	2.55E-05	1.58E-05	1.58E-05	7.83E-06
190	258861.36	4085006.5	2.27E-05	3.28E-04	2.41E-04	2.41E-04	1.35E-04	3.44E-06	4.99E-05	3.77E-05	3.77E-05	2.07E-05	1.87E-06	2.70E-05	1.68E-05	1.68E-05	8.30E-06
191	258860.63	4084981.74	2.41E-05	3.48E-04	2.57E-04	2.57E-04	1.43E-04	3.65E-06	5.30E-05	4.01E-05	4.01E-05	2.20E-05	1.98E-06	2.87E-05	1.78E-05	1.78E-05	8.82E-06
192	258859.91	4084956.99	2.56E-05	3.70E-04	2.73E-04	2.73E-04	1.52E-04	3.88E-06	5.64E-05	4.26E-05	4.26E-05	2.34E-05	2.11E-06	3.05E-05	1.89E-05	1.89E-05	9.38E-06
193	258859.19	4084932.23	2.72E-05	3.93E-04	2.90E-04	2.90E-04	1.62E-04	4.13E-06	5.99E-05	4.53E-05	4.53E-05	2.49E-05	2.24E-06	3.24E-05	2.01E-05	2.01E-05	9.97E-06
194	258858.47	4084907.47	2.89E-05	4.18E-04	3.08E-04	3.08E-04	1.72E-04	4.38E-06	6.36E-05	4.81E-05	4.81E-05	2.64E-05	2.38E-06	3.44E-05	2.14E-05	2.14E-05	1.06E-05
195	258955.77	4085125.02	1.39E-05	2.00E-04	1.48E-04	1.48E-04	8.23E-05	2.10E-06	3.05E-05	2.31E-05	2.31E-05	1.27E-05	1.14E-06	1.65E-05	1.03E-05	1.03E-05	5.08E-06
196	258947.34	4085147.44	1.36E-05	1.96E-04	1.45E-04	1.45E-04	8.06E-05	2.06E-06	2.99E-05	2.26E-05	2.26E-05	1.24E-05	1.12E-06	1.62E-05	1.00E-05	1.00E-05	4.97E-06
197	258938.91	4085169.86	1.32E-05	1.92E-04	1.41E-04	1.41E-04	7.87E-05	2.01E-06	2.92E-05	2.20E-05	2.20E-05	1.21E-05	1.09E-06	1.58E-05	9.81E-06	9.81E-06	4.85E-06
198	258930.48	4085192.27	1.29E-05	1.87E-04	1.38E-04	1.38E-04	7.67E-05	1.96E-06	2.84E-05	2.15E-05	2.15E-05	1.18E-05	1.06E-06	1.54E-05	9.56E-06	9.56E-06	4.73E-06
199	258922.05	4085214.69	1.26E-05	1.82E-04	1.34E-04	1.34E-04	7.46E-05	1.91E-06	2.77E-05	2.09E-05	2.09E-05	1.15E-05	1.04E-06	1.50E-05	9.30E-06	9.30E-06	4.60E-06
200	258913.62	4085237.1	1.22E-05	1.77E-04	1.30E-04	1.30E-04	7.26E-05	1.85E-06	2.69E-05	2.03E-05	2.03E-05	1.12E-05	1.01E-06	1.46E-05	9.04E-06	9.04E-06	4.47E-06
201	258905.19	4085259.52	1.19E-05	1.72E-04	1.26E-04	1.26E-04	7.05E-05	1.80E-06	2.61E-05	1.97E-05	1.97E-05	1.09E-05	9.78E-07	1.41E-05	8.79E-06	8.79E-06	4.35E-06
202	258896.76	4085281.94	1.15E-05	1.66E-04	1.23E-04	1.23E-04	6.83E-05	1.75E-06	2.53E-05	1.91E-05	1.91E-05	1.05E-05	9.48E-07	1.37E-05	8.52E-06	8.52E-06	4.22E-06
203	258888.32	4085304.35	1.11E-05	1.61E-04	1.19E-04	1.19E-04	6.62E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.18E-07	1.33E-05	8.25E-06	8.25E-06	4.08E-06
204	258879.89	4085326.77	1.08E-05	1.57E-04	1.16E-04	1.16E-04	6.44E-05	1.65E-06	2.39E-05	1.80E-05	1.80E-05	9.92E-06	8.94E-07	1.29E-05	8.03E-06	8.03E-06	3.97E-06
205	258871.46	4085349.18	1.05E-05	1.53E-04	1.12E-04	1.12E-04	6.27E-05	1.60E-06	2.32E-05	1.76E-05	1.76E-05	9.65E-06	8.69E-07	1.26E-05	7.81E-06	7.81E-06	3.87E-06
206	258863.03	4085371.6	1.03E-05	1.48E-04	1.09E-04	1.09E-04	6.10E-05	1.56E-06	2.26E-05	1.71E-05	1.71E-05	9.38E-06	8.45E-07	1.22E-05	7.60E-06	7.60E-06	3.76E-06

207	258854.6	4085394.02	9.97E-06	1.44E-04	1.06E-04	1.06E-04	5.93E-05	1.51E-06	2.20E-05	1.66E-05	1.66E-05	9.12E-06	8.22E-07	1.19E-05	7.38E-06	7.38E-06	3.65E-06
208	258846.17	4085416.43	9.69E-06	1.40E-04	1.03E-04	1.03E-04	5.76E-05	1.47E-06	2.14E-05	1.61E-05	1.61E-05	8.87E-06	7.99E-07	1.16E-05	7.18E-06	7.18E-06	3.55E-06
209	258837.74	4085438.85	9.43E-06	1.36E-04	1.00E-04	1.00E-04	5.60E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.63E-06	7.77E-07	1.12E-05	6.98E-06	6.98E-06	3.46E-06
210	258829.31	4085461.26	9.17E-06	1.33E-04	9.78E-05	9.78E-05	5.45E-05	1.39E-06	2.02E-05	1.53E-05	1.53E-05	8.39E-06	7.56E-07	1.09E-05	6.79E-06	6.79E-06	3.36E-06
211	258820.88	4085483.68	8.93E-06	1.29E-04	9.52E-05	9.52E-05	5.31E-05	1.36E-06	1.97E-05	1.49E-05	1.49E-05	8.18E-06	7.36E-07	1.07E-05	6.62E-06	6.62E-06	3.27E-06
212	258812.44	4085506.1	8.71E-06	1.26E-04	9.29E-05	9.29E-05	5.18E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.97E-06	7.18E-07	1.04E-05	6.45E-06	6.45E-06	3.19E-06
213	258782.28	4085538.57	8.66E-06	1.25E-04	9.24E-05	9.24E-05	5.15E-05	1.31E-06	1.91E-05	1.44E-05	1.44E-05	7.93E-06	7.14E-07	1.03E-05	6.42E-06	6.42E-06	3.18E-06
214	258760.54	4085548.62	8.83E-06	1.28E-04	9.41E-05	9.41E-05	5.25E-05	1.34E-06	1.95E-05	1.47E-05	1.47E-05	8.08E-06	7.28E-07	1.05E-05	6.54E-06	6.54E-06	3.24E-06
215	258738.8	4085558.67	9.01E-06	1.30E-04	9.60E-05	9.60E-05	5.35E-05	1.37E-06	1.98E-05	1.50E-05	1.50E-05	8.24E-06	7.43E-07	1.07E-05	6.67E-06	6.67E-06	3.30E-06
216	258717.06	4085568.73	9.20E-06	1.33E-04	9.81E-05	9.81E-05	5.47E-05	1.40E-06	2.03E-05	1.53E-05	1.53E-05	8.42E-06	7.59E-07	1.10E-05	6.82E-06	6.82E-06	3.37E-06
217	258695.33	4085578.78	9.42E-06	1.36E-04	1.00E-04	1.00E-04	5.60E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.62E-06	7.76E-07	1.12E-05	6.98E-06	6.98E-06	3.45E-06
218	258673.59	4085588.83	9.66E-06	1.40E-04	1.03E-04	1.03E-04	5.74E-05	1.47E-06	2.13E-05	1.61E-05	1.61E-05	8.84E-06	7.97E-07	1.15E-05	7.16E-06	7.16E-06	3.54E-06
219	258651.85	4085598.88	9.93E-06	1.44E-04	1.06E-04	1.06E-04	5.90E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.08E-06	8.18E-07	1.18E-05	7.35E-06	7.35E-06	3.64E-06
220	258630.12	4085608.94	1.02E-05	1.48E-04	1.09E-04	1.09E-04	6.06E-05	1.55E-06	2.25E-05	1.70E-05	1.70E-05	9.33E-06	8.41E-07	1.22E-05	7.55E-06	7.55E-06	3.74E-06
221	258608.38	4085618.99	1.05E-05	1.51E-04	1.12E-04	1.12E-04	6.22E-05	1.59E-06	2.31E-05	1.74E-05	1.74E-05	9.58E-06	8.63E-07	1.25E-05	7.75E-06	7.75E-06	3.84E-06
222	258586.64	4085629.04	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.37E-05	1.63E-06	2.36E-05	1.78E-05	1.78E-05	9.80E-06	8.83E-07	1.28E-05	7.93E-06	7.93E-06	3.93E-06
223	258564.91	4085639.1	1.10E-05	1.59E-04	1.17E-04	1.17E-04	6.51E-05	1.66E-06	2.42E-05	1.82E-05	1.82E-05	1.00E-05	9.04E-07	1.31E-05	8.12E-06	8.12E-06	4.02E-06
224	258543.17	4085649.15	1.12E-05	1.62E-04	1.19E-04	1.19E-04	6.64E-05	1.70E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.21E-07	1.33E-05	8.27E-06	8.27E-06	4.09E-06
225	258521.43	4085659.2	1.13E-05	1.64E-04	1.21E-04	1.21E-04	6.74E-05	1.72E-06	2.50E-05	1.89E-05	1.89E-05	1.04E-05	9.35E-07	1.35E-05	8.40E-06	8.40E-06	4.16E-06
226	258499.69	4085669.26	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.89E-05	1.76E-06	2.55E-05	1.93E-05	1.93E-05	1.06E-05	9.55E-07	1.38E-05	8.58E-06	8.58E-06	4.25E-06
227	258477.96	4085679.31	1.18E-05	1.71E-04	1.26E-04	1.26E-04	7.02E-05	1.79E-06	2.60E-05	1.97E-05	1.97E-05	1.08E-05	9.74E-07	1.41E-05	8.75E-06	8.75E-06	4.33E-06
228	258456.22	4085689.36	1.20E-05	1.74E-04	1.28E-04	1.28E-04	7.15E-05	1.83E-06	2.65E-05	2.00E-05	2.00E-05	1.10E-05	9.92E-07	1.43E-05	8.91E-06	8.91E-06	4.41E-06
229	258434.48	4085699.42	1.23E-05	1.78E-04	1.31E-04	1.31E-04	7.31E-05	1.87E-06	2.71E-05	2.05E-05	2.05E-05	1.13E-05	1.01E-06	1.47E-05	9.11E-06	9.11E-06	4.51E-06
230	258412.75	4085709.47	1.26E-05	1.82E-04	1.34E-04	1.34E-04	7.48E-05	1.91E-06	2.77E-05	2.10E-05	2.10E-05	1.15E-05	1.04E-06	1.50E-05	9.32E-06	9.32E-06	4.61E-06
231	258964.2	4085102.61	1.41E-05	2.04E-04	1.51E-04	1.51E-04	8.39E-05	2.14E-06	3.11E-05	2.35E-05	2.35E-05	1.29E-05	1.16E-06	1.68E-05	1.05E-05	1.05E-05	5.18E-06
232	258963.48	4085077.85	1.48E-05	2.14E-04	1.57E-04	1.57E-04	8.78E-05	2.24E-06	3.25E-05	2.46E-05	2.46E-05	1.35E-05	1.22E-06	1.76E-05	1.09E-05	1.09E-05	5.41E-06
233	258962.76	4085053.09	1.55E-05	2.24E-04	1.65E-04	1.65E-04	9.19E-05	2.35E-06	3.41E-05	2.57E-05	2.57E-05	1.42E-05	1.27E-06	1.84E-05	1.15E-05	1.15E-05	5.67E-06
234	258962.04	4085028.34	1.62E-05	2.35E-04	1.73E-04	1.73E-04	9.65E-05	2.46E-06	3.58E-05	2.70E-05	2.70E-05	1.49E-05	1.34E-06	1.94E-05	1.20E-05	1.20E-05	5.95E-06
235	258961.31	4085003.58	1.71E-05	2.47E-04	1.82E-04	1.82E-04	1.01E-04	2.59E-06	3.76E-05	2.84E-05	2.84E-05	1.56E-05	1.41E-06	2.03E-05	1.26E-05	1.26E-05	6.26E-06
236	258960.59	4084978.83	1.80E-05	2.60E-04	1.92E-04	1.92E-04	1.07E-04	2.73E-06	3.96E-05	2.99E-05	2.99E-05	1.64E-05	1.48E-06	2.14E-05	1.33E-05	1.33E-05	6.59E-06
237	258959.87	4084954.07	1.89E-05	2.74E-04	2.02E-04	2.02E-04	1.13E-04	2.88E-06	4.17E-05	3.15E-05	3.15E-05	1.73E-05	1.56E-06	2.26E-05	1.40E-05	1.40E-05	6.95E-06
238	258959.15	4084929.31	2.00E-05	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.03E-06	4.41E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.38E-05	1.48E-05	1.48E-05	7.33E-06
239	258958.42	4084904.56	2.11E-05	3.05E-04	2.25E-04	2.25E-04	1.25E-04	3.20E-06	4.65E-05	3.51E-05	3.51E-05	1.93E-05	1.74E-06	2.51E-05	1.56E-05	1.56E-05	7.73E-06
240	259055.67	4085122.28	1.13E-05	1.63E-04	1.20E-04	1.20E-04	6.71E-05	1.71E-06	2.49E-05	1.88E-05	1.88E-05	1.03E-05	9.31E-07	1.35E-05	8.36E-06	8.36E-06	4.14E-06
241	259047.17	4085144.86	1.11E-05	1.61E-04	1.18E-04	1.18E-04	6.60E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.15E-07	1.32E-05	8.22E-06	8.22E-06	4.07E-06
242	259038.68	4085167.45	1.09E-05	1.58E-04	1.16E-04	1.16E-04	6.47E-05	1.65E-06	2.40E-05	1.81E-05	1.81E-05	9.97E-06	8.98E-07	1.30E-05	8.07E-06	8.07E-06	3.99E-06
243	259030.18	4085190.03	1.06E-05	1.54E-04	1.13E-04	1.13E-04	6.32E-05	1.61E-06	2.34E-05	1.77E-05	1.77E-05	9.73E-06	8.77E-07	1.27E-05	7.88E-06	7.88E-06	3.90E-06
244	259021.69	4085212.62	1.04E-05	1.50E-04	1.10E-04	1.10E-04	6.15E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.48E-06	8.53E-07	1.23E-05	7.67E-06	7.67E-06	3.80E-06
245	259013.19	4085235.21	1.01E-05	1.46E-04	1.08E-04	1.08E-04	5.99E-05	1.53E-06	2.22E-05	1.68E-05	1.68E-05	9.23E-06	8.31E-07	1.20E-05	7.47E-06	7.47E-06	3.70E-06
246	259004.7	4085257.79	9.82E-06	1.42E-04	1.05E-04	1.05E-04	5.84E-05	1.49E-06	2.16E-05	1.63E-05	1.63E-05	8.99E-06	8.10E-07	1.17E-05	7.27E-06	7.27E-06	3.60E-06
247	258996.2	4085280.38	9.57E-06	1.38E-04	1.02E-04	1.02E-04	5.69E-05	1.45E-06	2.11E-05	1.59E-05	1.59E-05	8.76E-06	7.89E-07	1.14E-05	7.09E-06	7.09E-06	3.51E-06
248	258987.71	4085302.96	9.33E-06	1.35E-04	9.95E-05	9.95E-05	5.55E-05	1.42E-06	2.06E-05	1.55E-05	1.55E-05	8.54E-06	7.69E-07	1.11E-05	6.91E-06	6.91E-06	3.42E-06
249	258979.21	4085325.55	9.11E-06	1.32E-04	9.71E-05	9.71E-05	5.41E-05	1.38E-06	2.01E-05	1.52E-05	1.52E-05	8.33E-06	7.51E-07	1.09E-05	6.74E-06	6.74E-06	3.34E-06
250	258970.72	4085348.13	8.90E-06	1.29E-04	9.48E-05	9.48E-05	5.29E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.14E-06	7.33E-07	1.06E-05	6.59E-06	6.59E-06	3.26E-06
251	258962.22	4085370.72	8.69E-06	1.26E-04	9.27E-05	9.27E-05	5.17E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.95E-06	7.16E-07	1.04E-05	6.44E-06	6.44E-06	3.19E-06
252	258953.73	4085393.31	8.49E-06	1.23E-04	9.05E-05	9.05E-05	5.05E-05	1.29E-06	1.87E-05	1.41E-05	1.41E-05	7.77E-06	7.00E-07	1.01E-05	6.29E-06	6.29E-06	3.11E-06
253	258945.23	4085415.89	8.29E-06	1.20E-04	8.84E-05	8.84E-05	4.93E-05	1.26E-06	1.83E-05	1.38E-05	1.38E-05	7.59E-06	6.84E-07	9.89E-06	6.14E-06	6.14E-06	3.04E-06
254	258936.74	4085438.48	8.10E-06	1.17E-04	8.63E-05	8.63E-05	4.81E-05	1.23E-06	1.78E-05	1.35E-05	1.35E-05	7.41E-06	6.68E-07	9.65E-06	6.00E-06	6.00E-06	2.97E-06
255	258928.24	4085461.06	7.90E-06	1.14E-04	8.43E-05	8.43E-05	4.70E-05	1.20E-06	1.74E-05	1.32E-05	1.32E-05	7.23E-06	6.51E-07	9.42E-06	5.85E-06	5.85E-06	2.90E-06
256	258919.75	4085483.65	7.71E-06	1.12E-04	8.22E-05	8.22E-05	4.58E-05	1.17E-06	1.70E-05	1.28E-05	1.28E-05	7.06E-06	6.36E-07	9.20E-06	5.71E-06	5.71E-06	2.83E-06
257	258911.25	4085506.24	7.53E-06	1.09E-04	8.03E-05	8.03E-05	4.47E-05	1.14E-06	1.66E-05	1.25E-05	1.25E-05	6.89E-06	6.21E-07	8.98E-06	5.58E-06	5.58E-06	2.76E-06
258	258902.76	4085528.82	7.35E-06	1.06E-04	7.84E-05	7.84E-05	4.37E-05	1.12E-06	1.62E-05	1.22E-05	1.22E-05	6.73E-06	6.06E-07	8.77E-06	5.45E-06	5.45E-06	2.70E-06
259	258894.26	4085551.41	7.19E-06	1.04E-04	7.66E-05	7.66E-05	4.27E-05	1.09E-06	1.58E-05	1.20E-05	1.20E-05	6.58E-06	5.93E-07	8.57E-06	5.32E-06	5.32E-06	2.63E-06
260	258885.77	4085573.99	7.04E-06	1.02E-04	7.50E-05	7.50E-05	4.18E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.44E-06	5.80E-07	8.39E-06	5.21E-06	5.21E-06	2.58E-06
261	258855.37	4085606.71	7.00E-06	1.01E-04	7.46E-05	7.46E-05	4.16E-05	1.06E-06	1.54E-05	1.17E-05	1.17E-05	6.41E-06	5.77E-07	8.35E-06	5.19E-06	5.19E-06	2.57E-06
262	258833.47	4085616.84	7.11E-06	1.03E-04	7.58E-05	7.58E-05	4.23E-05	1.08E-06	1.57E-05	1.18E-05	1.18E-05	6.51E-06	5.86E-07	8.48E-06	5.27E-06	5.27E-06	2.61E-06
263	258811.57	4085626.97	7.24E-06	1.05E-04	7.72E-05	7.72E-05	4.30E-05	1.10E-06	1.59E-05	1.20E-05	1.20E-05	6.62E-06	5.97E-07	8.63E-06	5.36E-06	5.36E-06	2.65E-06
264	258789.66	4085637.1	7.37E-06	1.07E-04	7.85E-05	7.85E-05	4.38E-05	1.12E-06	1.62E-05	1.23E-05	1.23E-05	6.74E-06	6.07E-07	8.78E-06	5.46E-06	5.46E-06	2.70E-06
265	258767.76	4085647.23	7.51E-06	1.09E-04	8.00E-05	8.00E-05	4.46E-05	1.14E-06	1.65E-05	1.25E-05	1.25E-05	6.87E-06	6.19E-07	8.95E-06	5.56E-06	5.56E-06	2.75E-06
266	258745.86	4085657.36	7.67E-06	1.11E-04	8.17E-05	8.17E-05	4.56E-05	1.16E-06	1.69E-05	1.28E-05	1.28E-05	7.02E-06	6.32E-07	9.14E-06	5.68E-06	5.68E-06	2.81E-06
267	258723.96	4085667.49	7.85E-06	1.14E-04	8.37E-05	8.37E-05	4.66E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.18E-06	6.47E-07	9.36E-06	5.81E-06	5.81E-06	2.88E-06
268	258702.06	4085677.61	8.05E-06	1.16E-04	8.58E-05	8.58E-05	4.78E-05	1.22E-06	1.77E-05	1.34E-05	1.34E-05	7.36E-06	6.63E-07	9.59E-06	5.96E-06	5.96E-06	2.95E-06
269	258680.16	4085687.74	8.26E-06	1.19E-04	8.80E-05	8.80E-05	4.91E-05	1.25E-06	1.82E-05	1.37E-05	1.37E-05	7.55E-06	6.81E-07	9.84E-06	6.11E-06	6.11E-06	3.03E-06
270	258658.25	4085697.87	8.47E-06	1.22E-04	9.03E-05	9.03E-05	5.03E-05	1.29E-06	1.87E-05	1.41E-05	1.41E-05	7.75E-06	6.98E-07	1.01E-05	6.27E-06	6.27E-06	3.10E-06
271	258636.35	4085708	8.67E-06	1.25E-04	9.24E-05	9.24E-05	5.15E-05	1.32E-06	1.91E-05	1.44E-05	1.44E-05	7.93E-06	7.14E-07	1.03E-05	6.42E-06	6.42E-06	3.18E-06
272	258614.45	4085718.13	8.84E-06	1.28E-04	9.43E-05	9.43E-05	5.26E-05	1.34E-06	1.95E-05	1.47E-05	1.47E-05	8.09E-06	7.29E-07	1.05E-05	6.55E-06	6.55E-06	3.24E-06
273	258592.55	4085728.26	9.01E-06	1.30E-04	9.60E-05	9.60E-05	5.35E-05	1.37E-06	1.98E-05	1.50E-05	1.50E-05	8.24E-06	7.42E-07	1.07E-05	6.67E-06	6.67E-06	3.30E-06
274	258570.65	4085738.39	9.16E-06	1.32E-04	9.76E-05	9.76E-05	5.44E-05	1.39E-06	2.02E-05	1.52E-05	1.52E-05	8.38E-06	7.55E-07	1.09E-05	6.78E-06	6.78E-06	3.36E-06
275	258548.75	4085748.52	9.30E-06	1.35E-04	9.92E-05	9.92E-05	5.53E-05	1.41E-06	2.05E-05	1.55E-05	1.55E-05	8.51E-06	7.67E-07	1.11E-05	6.89E-06	6.89E-06	3.41E-06
276	258526.84	4085758.65	9.46E-06	1.37E-04	1.01E-04	1.01E-04	5.62E-05	1.44E-06	2.08E-05	1.57E-05	1.57E-05	8.66E-06	7.80E-07	1.13E-05	7.00E-06	7.00E-06	3.47E-06
277	258504.94	4085768.78	9.63E-06	1.39E-04	1.03E-04	1.03E-04	5.72E-05	1.46E-06	2.12E-05	1.60E-05	1.60E-05	8.81E-06	7.94E-07	1.15E-05	7.13E-06	7.13E-06	3.53E-06
278	258483.04	4085778.91	9.82E-06	1.42E-04	1.05E-04	1.05E-04	5.84E-05	1.49E-06	2.16E-05	1.63E-05	1.63E-05	8.98E-06	8.09E-07	1.17E-05	7.27E-06	7.27E-06	3.60E-06
279	258461.14	4085789.04	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.96E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.17E-06	8.26E-07	1.19E-05	7.42E-06	7.42E-06	3.67E-06
280	258439.24	4085799.17	1.02E-05	1.48E-04	1.09E-04	1.09E-04	6.08E-05	1.55E-06	2.25E-05	1.70E-05	1.70E-05	9.36E-06	8.43E-07	1.22E-05	7.58E-06	7.58E-06	3.75E-06
281	258417.33	4085809.3	1.05E-05	1.51E-04	1.11E-04	1.11E-04	6.21E-05	1.59E-06	2.30E-05	1.74E-05	1.74E-05	9.56E-06	8.61E-07	1.25E-05	7.74E-06	7.74E-06	3.83E-06
282	259064.16	4085099.69	1.15E-05	1.66E-04	1.22E-04	1.22E-04	6.82E-05	1.74E-06	2.53E-05	1.91E-05	1.91E-05	1.05E-05	9.45E-07	1.37E-05	8.49E-06	8.49E-06	4.20E-06
283	259063.44	4085074.93	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.07E-05	1.81E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.80E-07	1.42E-05	8.81E-06	8.81E-06	4.36E-06
284	259062.72	4085050.18	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.16E-06	9.16E-06	4.53E-06
285	259061.99	4085025.42	1.29E-05	1.86E-04	1.37E-04	1.37E-04	7.66E-05	1.96E-06	2.84E-05	2.14E-05	2.14E-05	1.18E-05	1.06E-06	1.54E-05	9.54E-06	9.54E-06	4.72E-06
286	259061.27	4085000.66	1.35E-05	1.95E-04	1.43E-04	1.43E-04	8.00E-05	2.04E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.60E-05	9.97E-06	9.97E-06	4.93E-06
287	259060.55	4084975.91	1.41E-05	2.04E-04	1.50E-04	1.50E-04	8.37E-05	2.14E-06	3.10E-05	2.34E-05	2.34E-05	1.29E-05	1.16E-06	1.68E-05	1.04E-05	1.04E-05	5.16E-06
288	259059.83	4084951.15	1.48E-05	2.13E-04	1.57E-04	1.57E-04	8.77E-05	2.24E-06	3.25E-05	2.46E-05	2.46E-05	1.35E-05	1.22E-06	1.76E-05	1.09E-05	1.09E-05	5.41E-06
289	259059.1	4084926.4	1.55E-05	2.24E-04	1.65E-04	1.65E-04	9.20E-05	2.35E-06	3.41E-05	2.58E-05	2.58E-05	1.42E-05	1.28E-06	1.84E-05	1.15E-05	1.15E-05	5.67E-06
290	259058.38	4084901.64	1.62E-05	2.35E-04	1.73E-04	1.73E-04	9.64E-05	2.46E-06	3.58E-05	2.70E-05	2.70E-05	1.48E-05	1.34E-06	1.93E-05	1.20E-05	1.20E-05	5.95E-06
291	259255.5	4085116.67	8.09E-06	1.17E-04	8.62E-05	8.62E-05	4.81E-05	1.23E-06	1.78E-05	1.35E-05	1.35E-05	7.40E-06	6.66E-07	9.64E-06	5.99E-06	5.99E-06	2.96E-06
292	259246.91	4085139.49	8.01E-06	1.16E-04	8.54E-05	8.54E-05	4.76E-05	1.22E-06	1.76E-05	1.33E-05	1.33E-05	7.33E-06	6.60E-07	9.55E-06	5.93E-06	5.93E-06	2.94E-06
293	259238.33	4085162.3	7.91E-06	1.14E-04	8.44E-05	8.44E-05	4.70E-05	1.20E-06	1.74E-05	1.32E-05	1.32E-05	7.24E-06	6.52E-07	9.43E-06	5.86E-06	5.86E-06	2.90E-06
294	259229.75	4085185.12	7.79E-06	1.13E-04	8.31E-05	8.31E-05	4.63E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.13E-06	6.42E-07	9.29E-06	5.77E-06	5.77E-06	2.86E-06
295	259221.17	4085207.94	7.63E-06	1.10E-04	8.13E-05	8.13E-05	4.53E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.98E-06	6.29E-07	9.09E-06	5.65E-06	5.65E-06	2.80E-06
296	259212.59	4085230.75	7.47E-06	1.08E-04	7.96E-05	7.96E-05	4.44E-05	1.13E-06	1.65E-05	1.24E-05	1.24E-05	6.84E-06	6.16E-07	8.91E-06	5.53E-06	5.53E-06	2.74E-06
297	259204.01	4085253.57	7.31E-06	1.06E-04	7.79E-05	7.79E-05	4.34E-05	1.11E-06	1.61E-05	1.22E-05	1.22E-05	6.68E-06	6.02E-07	8.71E-06	5.41E-06	5.41E-06	2.68E-06
298	259195.42	4085276.39	7.14E-06	1.03E-04	7.61E-05	7.61E-05	4.24E-05	1.08E-06	1.57E-05	1.19E-05	1.19E-05	6.53E-06	5.88E-07	8.51E-06	5.29E-06	5.29E-06	2.62E-06
299	259186.84	4085299.2	6.97E-06	1.01E-04	7.43E-05	7.43E-05	4.14E-05	1.06E-06	1.54E-05	1.16E-05	1.16E-05	6.38E-06	5.75E-07	8.31E-06	5.16E-06	5.16E-06	2.56E-06
300	259178.26	4085322.02	6.82E-06	9.86E-05	7.27E-05	7.27E-05	4.05E-05	1.03E-06	1.50E-05	1.13E-05	1.13E-05	6.24E-06	5.62E-07	8.13E-06	5.05E-06	5.05E-06	2.50E-06
301	259169.68	4085344.84	6.67E-06	9.65E-05	7.11E-05	7.11E-05	3.96E-05	1.01E-06	1.47E-05	1.11E-05	1.11E-05	6.10E-06	5.50E-07	7.95E-06	4.94E-06	4.94E-06	2.44E-06
302	259161.1	4085367.65	6.54E-06	9.45E-05	6.97E-05	6.97E-05	3.88E-05	9.92E-07	1.44E-05	1.09E-05	1.09E-05	5.98E-06	5.39E-07	7.79E-06	4.84E-06	4.84E-06	2.40E-06
303	259152.52	4085390.47	6.41E-06	9.28E-05	6.84E-05	6.84E-05	3.81E-05	9.73E-07	1.41E-05	1.07E-05	1.07E-05	5.87E-06	5.29E-07	7.65E-06	4.75E-06	4.75E-06	2.35E-06
304	259143.93	4085413.28	6.30E-06	9.11E-05	6.72E-05	6.72E-05	3.74E-05	9.56E-07	1.39E-05	1.05E-05	1.05E-05	5.77E-06	5.19E-07	7.51E-06	4.67E-06	4.67E-06	2.31E-06
305	259135.35	4085436.1	6.20E-06	8.96E-05	6.61E-05	6.61E-05	3.68E-05	9.40E-07	1.37E-05	1.03E-05	1.03E-05	5.67E-06	5.11E-07	7.39E-06	4.59E-06	4.59E-06	2.27E-06
306	259126.77	4085458.92	6.09E-06	8.81E-05	6.50E-05	6.50E-05	3.62E-05	9.25E-07	1.34E-05	1.01E-05	1.01E-05	5.58E-06	5.02E-07	7.27E-06	4.51E-06	4.51E-06	2.23E-06
307	259118.19	4085481.73	5.99E-06	8.67E-05	6.39E-05	6.39E-05	3.56E-05	9.10E-07	1.32E-05	9.98E-06	9.98E-06	5.48E-06	4.94E-07	7.15E-06	4.44E-06	4.44E-06	2.20E-06
308	259109.61	4085504.55	5.89E-06	8.52E-05	6.28E-05	6.28E-05	3.50E-05	8.94E-07	1.30E-05	9.81E-06	9.81E-06	5.39E-06	4.86E-07	7.02E-06	4.36E-06	4.36E-06	2.16E-06
309	259101.02	4085527.37	5.79E-06	8.37E-05	6.17E-05	6.17E-05	3.44E-05	8.79E-07	1.28E-05	9.64E-06	9.64E-06	5.30E-06	4.77E-07	6.90E-06	4.29E-06	4.29E-06	2.12E-06
310	259092.44	4085550.18	5.69E-06	8.22E-05	6.06E-05	6.06E-05	3.38E-05	8.63E-07	1.25E-05	9.46E-06	9.46E-06	5.20E-06	4.69E-07	6.78E-06	4.21E-06	4.21E-06	2.08E-06
311	259083.86	4085573	5.58E-06	8.07E-05	5.95E-05	5.95E-05	3.32E-05	8.47E-07	1.23E-05	9.29E-06	9.29E-06	5.11E-06	4.60E-07	6.65E-06	4.13E-06	4.13E-06	2.05E-06

312	259075.28	4085595.82	5.47E-06	7.92E-05	5.83E-05	5.83E-05	3.25E-05	8.31E-07	1.21E-05	9.11E-06	9.11E-06	5.01E-06	4.51E-07	6.53E-06	4.05E-06	4.05E-06	2.01E-06
313	259066.7	4085618.63	5.37E-06	7.76E-05	5.72E-05	5.72E-05	3.19E-05	8.14E-07	1.18E-05	8.93E-06	8.93E-06	4.91E-06	4.42E-07	6.40E-06	3.97E-06	3.97E-06	1.97E-06
314	259058.12	4085641.45	5.26E-06	7.61E-05	5.61E-05	5.61E-05	3.13E-05	7.99E-07	1.16E-05	8.76E-06	8.76E-06	4.82E-06	4.34E-07	6.28E-06	3.90E-06	3.90E-06	1.93E-06
315	259049.53	4085664.27	5.17E-06	7.47E-05	5.51E-05	5.51E-05	3.07E-05	7.84E-07	1.14E-05	8.60E-06	8.60E-06	4.73E-06	4.26E-07	6.16E-06	3.83E-06	3.83E-06	1.89E-06
316	259040.95	4085687.08	5.08E-06	7.34E-05	5.41E-05	5.41E-05	3.02E-05	7.70E-07	1.12E-05	8.45E-06	8.45E-06	4.64E-06	4.18E-07	6.05E-06	3.76E-06	3.76E-06	1.86E-06
317	259032.37	4085709.9	4.99E-06	7.22E-05	5.32E-05	5.32E-05	2.97E-05	7.58E-07	1.10E-05	8.31E-06	8.31E-06	4.57E-06	4.11E-07	5.95E-06	3.70E-06	3.70E-06	1.83E-06
318	259001.66	4085742.95	4.98E-06	7.20E-05	5.30E-05	5.30E-05	2.96E-05	7.55E-07	1.10E-05	8.28E-06	8.28E-06	4.55E-06	4.10E-07	5.93E-06	3.68E-06	3.68E-06	1.82E-06
319	258979.54	4085753.18	5.04E-06	7.29E-05	5.37E-05	5.37E-05	2.99E-05	7.65E-07	1.11E-05	8.39E-06	8.39E-06	4.61E-06	4.15E-07	6.01E-06	3.73E-06	3.73E-06	1.85E-06
320	258957.41	4085763.41	5.11E-06	7.39E-05	5.44E-05	5.44E-05	3.03E-05	7.75E-07	1.13E-05	8.50E-06	8.50E-06	4.67E-06	4.21E-07	6.09E-06	3.78E-06	3.78E-06	1.87E-06
321	258935.29	4085773.65	5.18E-06	7.49E-05	5.52E-05	5.52E-05	3.08E-05	7.86E-07	1.14E-05	8.62E-06	8.62E-06	4.74E-06	4.27E-07	6.17E-06	3.83E-06	3.83E-06	1.90E-06
322	258913.16	4085783.88	5.25E-06	7.60E-05	5.60E-05	5.60E-05	3.12E-05	7.97E-07	1.16E-05	8.75E-06	8.75E-06	4.81E-06	4.33E-07	6.26E-06	3.89E-06	3.89E-06	1.93E-06
323	258891.04	4085794.11	5.34E-06	7.72E-05	5.69E-05	5.69E-05	3.17E-05	8.10E-07	1.18E-05	8.88E-06	8.88E-06	4.88E-06	4.40E-07	6.36E-06	3.95E-06	3.95E-06	1.96E-06
324	258868.91	4085804.34	5.42E-06	7.84E-05	5.78E-05	5.78E-05	3.22E-05	8.23E-07	1.20E-05	9.03E-06	9.03E-06	4.96E-06	4.47E-07	6.47E-06	4.02E-06	4.02E-06	1.99E-06
325	258846.79	4085814.58	5.52E-06	7.99E-05	5.89E-05	5.89E-05	3.28E-05	8.38E-07	1.22E-05	9.19E-06	9.19E-06	5.05E-06	4.55E-07	6.58E-06	4.09E-06	4.09E-06	2.02E-06
326	258824.66	4085824.81	5.64E-06	8.15E-05	6.01E-05	6.01E-05	3.35E-05	8.55E-07	1.24E-05	9.38E-06	9.38E-06	5.16E-06	4.64E-07	6.72E-06	4.17E-06	4.17E-06	2.07E-06
327	258802.54	4085835.04	5.76E-06	8.33E-05	6.14E-05	6.14E-05	3.42E-05	8.74E-07	1.27E-05	9.58E-06	9.58E-06	5.27E-06	4.75E-07	6.86E-06	4.26E-06	4.26E-06	2.11E-06
328	258780.41	4085845.27	5.89E-06	8.52E-05	6.28E-05	6.28E-05	3.50E-05	8.94E-07	1.30E-05	9.81E-06	9.81E-06	5.39E-06	4.86E-07	7.02E-06	4.36E-06	4.36E-06	2.16E-06
329	258758.29	4085855.51	6.04E-06	8.73E-05	6.44E-05	6.44E-05	3.59E-05	9.16E-07	1.33E-05	1.00E-05	1.00E-05	5.52E-06	4.98E-07	7.20E-06	4.47E-06	4.47E-06	2.21E-06
330	258736.16	4085865.74	6.18E-06	8.94E-05	6.59E-05	6.59E-05	3.67E-05	9.38E-07	1.36E-05	1.03E-05	1.03E-05	5.66E-06	5.09E-07	7.37E-06	4.58E-06	4.58E-06	2.27E-06
331	258714.04	4085875.97	6.31E-06	9.13E-05	6.73E-05	6.73E-05	3.75E-05	9.58E-07	1.39E-05	1.05E-05	1.05E-05	5.78E-06	5.20E-07	7.53E-06	4.68E-06	4.68E-06	2.31E-06
332	258691.91	4085886.2	6.44E-06	9.31E-05	6.87E-05	6.87E-05	3.83E-05	9.77E-07	1.42E-05	1.07E-05	1.07E-05	5.89E-06	5.31E-07	7.68E-06	4.77E-06	4.77E-06	2.36E-06
333	258669.79	4085896.44	6.55E-06	9.47E-05	6.98E-05	6.98E-05	3.89E-05	9.94E-07	1.44E-05	1.09E-05	1.09E-05	5.99E-06	5.40E-07	7.81E-06	4.85E-06	4.85E-06	2.40E-06
334	258647.66	4085906.67	6.65E-06	9.62E-05	7.09E-05	7.09E-05	3.95E-05	1.01E-06	1.47E-05	1.11E-05	1.11E-05	6.09E-06	5.48E-07	7.93E-06	4.93E-06	4.93E-06	2.44E-06
335	258625.54	4085916.9	6.75E-06	9.76E-05	7.19E-05	7.19E-05	4.01E-05	1.02E-06	1.49E-05	1.12E-05	1.12E-05	6.17E-06	5.56E-07	8.04E-06	5.00E-06	5.00E-06	2.47E-06
336	258603.41	4085927.13	6.84E-06	9.89E-05	7.29E-05	7.29E-05	4.07E-05	1.04E-06	1.51E-05	1.14E-05	1.14E-05	6.26E-06	5.64E-07	8.15E-06	5.07E-06	5.07E-06	2.51E-06
337	258581.28	4085937.37	6.93E-06	1.00E-04	7.39E-05	7.39E-05	4.12E-05	1.05E-06	1.53E-05	1.15E-05	1.15E-05	6.35E-06	5.72E-07	8.27E-06	5.14E-06	5.14E-06	2.54E-06
338	258559.16	4085947.6	7.03E-06	1.02E-04	7.50E-05	7.50E-05	4.18E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.44E-06	5.80E-07	8.38E-06	5.21E-06	5.21E-06	2.58E-06
339	258537.03	4085957.83	7.14E-06	1.03E-04	7.61E-05	7.61E-05	4.24E-05	1.08E-06	1.57E-05	1.19E-05	1.19E-05	6.53E-06	5.88E-07	8.51E-06	5.29E-06	5.29E-06	2.62E-06
340	258514.91	4085968.07	7.25E-06	1.05E-04	7.73E-05	7.73E-05	4.31E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.63E-06	5.98E-07	8.64E-06	5.37E-06	5.37E-06	2.66E-06
341	258492.78	4085978.3	7.37E-06	1.07E-04	7.85E-05	7.85E-05	4.38E-05	1.12E-06	1.62E-05	1.23E-05	1.23E-05	6.74E-06	6.07E-07	8.78E-06	5.46E-06	5.46E-06	2.70E-06
342	258470.66	4085988.53	7.49E-06	1.08E-04	7.98E-05	7.98E-05	4.45E-05	1.14E-06	1.65E-05	1.25E-05	1.25E-05	6.85E-06	6.17E-07	8.93E-06	5.54E-06	5.54E-06	2.74E-06
343	258448.53	4085998.76	7.61E-06	1.10E-04	8.11E-05	8.11E-05	4.52E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.96E-06	6.27E-07	9.07E-06	5.64E-06	5.64E-06	2.79E-06
344	258426.41	4086009	7.74E-06	1.12E-04	8.25E-05	8.25E-05	4.60E-05	1.17E-06	1.70E-05	1.29E-05	1.29E-05	7.08E-06	6.38E-07	9.22E-06	5.73E-06	5.73E-06	2.84E-06
345	259264.08	4085093.86	8.16E-06	1.18E-04	8.70E-05	8.70E-05	4.85E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.46E-06	6.72E-07	9.73E-06	6.04E-06	6.04E-06	2.99E-06
346	259263.35	4085069.1	8.37E-06	1.21E-04	8.92E-05	8.92E-05	4.97E-05	1.27E-06	1.84E-05	1.39E-05	1.39E-05	7.66E-06	6.90E-07	9.98E-06	6.20E-06	6.20E-06	3.07E-06
347	259262.63	4085044.34	8.61E-06	1.25E-04	9.18E-05	9.18E-05	5.12E-05	1.31E-06	1.90E-05	1.43E-05	1.43E-05	7.88E-06	7.10E-07	1.03E-05	6.38E-06	6.38E-06	3.16E-06
348	259261.91	4085019.59	8.89E-06	1.29E-04	9.47E-05	9.47E-05	5.28E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.13E-06	7.33E-07	1.06E-05	6.58E-06	6.58E-06	3.26E-06
349	259261.19	4084994.83	9.20E-06	1.33E-04	9.81E-05	9.81E-05	5.47E-05	1.40E-06	2.03E-05	1.53E-05	1.53E-05	8.42E-06	7.59E-07	1.10E-05	6.82E-06	6.82E-06	3.37E-06
350	259260.46	4084970.07	9.56E-06	1.38E-04	1.02E-04	1.02E-04	5.68E-05	1.45E-06	2.11E-05	1.59E-05	1.59E-05	8.75E-06	7.88E-07	1.14E-05	7.08E-06	7.08E-06	3.50E-06
351	259259.74	4084945.32	9.94E-06	1.44E-04	1.06E-04	1.06E-04	5.91E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.09E-06	8.19E-07	1.18E-05	7.36E-06	7.36E-06	3.64E-06
352	259259.02	4084920.56	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.46E-06	8.52E-07	1.23E-05	7.65E-06	7.65E-06	3.79E-06
353	259258.3	4084895.81	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.38E-05	1.63E-06	2.37E-05	1.79E-05	1.79E-05	9.83E-06	8.85E-07	1.28E-05	7.95E-06	7.95E-06	3.94E-06
354	259455.35	4085110.99	6.21E-06	8.98E-05	6.62E-05	6.62E-05	3.69E-05	9.42E-07	1.37E-05	1.03E-05	1.03E-05	5.68E-06	5.12E-07	7.40E-06	4.60E-06	4.60E-06	2.28E-06
355	259446.72	4085133.95	6.18E-06	8.94E-05	6.59E-05	6.59E-05	3.67E-05	9.38E-07	1.36E-05	1.03E-05	1.03E-05	5.65E-06	5.09E-07	7.37E-06	4.58E-06	4.58E-06	2.26E-06
356	259438.08	4085156.92	6.14E-06	8.88E-05	6.54E-05	6.54E-05	3.65E-05	9.32E-07	1.35E-05	1.02E-05	1.02E-05	5.62E-06	5.06E-07	7.32E-06	4.55E-06	4.55E-06	2.25E-06
357	259429.44	4085179.88	6.09E-06	8.81E-05	6.49E-05	6.49E-05	3.62E-05	9.24E-07	1.34E-05	1.01E-05	1.01E-05	5.57E-06	5.02E-07	7.26E-06	4.51E-06	4.51E-06	2.23E-06
358	259420.8	4085202.85	6.02E-06	8.70E-05	6.42E-05	6.42E-05	3.58E-05	9.13E-07	1.33E-05	1.00E-05	1.00E-05	5.51E-06	4.96E-07	7.18E-06	4.46E-06	4.46E-06	2.21E-06
359	259412.17	4085225.81	5.93E-06	8.58E-05	6.32E-05	6.32E-05	3.52E-05	9.00E-07	1.31E-05	9.87E-06	9.87E-06	5.43E-06	4.89E-07	7.07E-06	4.39E-06	4.39E-06	2.17E-06
360	259403.53	4085248.78	5.83E-06	8.43E-05	6.21E-05	6.21E-05	3.46E-05	8.84E-07	1.28E-05	9.70E-06	9.70E-06	5.33E-06	4.80E-07	6.95E-06	4.32E-06	4.32E-06	2.14E-06
361	259394.89	4085271.74	5.71E-06	8.26E-05	6.09E-05	6.09E-05	3.40E-05	8.67E-07	1.26E-05	9.51E-06	9.51E-06	5.23E-06	4.71E-07	6.81E-06	4.23E-06	4.23E-06	2.09E-06
362	259386.25	4085294.71	5.59E-06	8.09E-05	5.96E-05	5.96E-05	3.32E-05	8.49E-07	1.23E-05	9.31E-06	9.31E-06	5.12E-06	4.61E-07	6.67E-06	4.14E-06	4.14E-06	2.05E-06
363	259377.61	4085317.68	5.47E-06	7.91E-05	5.83E-05	5.83E-05	3.25E-05	8.30E-07	1.20E-05	9.10E-06	9.10E-06	5.00E-06	4.51E-07	6.52E-06	4.05E-06	4.05E-06	2.00E-06
364	259368.98	4085340.64	5.34E-06	7.72E-05	5.69E-05	5.69E-05	3.17E-05	8.10E-07	1.18E-05	8.88E-06	8.88E-06	4.88E-06	4.40E-07	6.36E-06	3.95E-06	3.95E-06	1.96E-06
365	259360.34	4085363.61	5.23E-06	7.56E-05	5.57E-05	5.57E-05	3.11E-05	7.93E-07	1.15E-05	8.70E-06	8.70E-06	4.78E-06	4.31E-07	6.23E-06	3.87E-06	3.87E-06	1.92E-06
366	259351.7	4085386.57	5.12E-06	7.41E-05	5.46E-05	5.46E-05	3.05E-05	7.78E-07	1.13E-05	8.53E-06	8.53E-06	4.69E-06	4.22E-07	6.11E-06	3.80E-06	3.80E-06	1.88E-06
367	259343.06	4085409.54	5.03E-06	7.28E-05	5.36E-05	5.36E-05	2.99E-05	7.64E-07	1.11E-05	8.38E-06	8.38E-06	4.61E-06	4.15E-07	6.00E-06	3.73E-06	3.73E-06	1.84E-06
368	259334.43	4085432.5	4.95E-06	7.16E-05	5.28E-05	5.28E-05	2.94E-05	7.51E-07	1.09E-05	8.24E-06	8.24E-06	4.53E-06	4.08E-07	5.90E-06	3.67E-06	3.67E-06	1.81E-06
369	259325.79	4085455.47	4.88E-06	7.06E-05	5.20E-05	5.20E-05	2.90E-05	7.40E-07	1.08E-05	8.12E-06	8.12E-06	4.46E-06	4.02E-07	5.82E-06	3.61E-06	3.61E-06	1.79E-06
370	259317.15	4085478.43	4.81E-06	6.96E-05	5.13E-05	5.13E-05	2.86E-05	7.30E-07	1.06E-05	8.01E-06	8.01E-06	4.40E-06	3.97E-07	5.74E-06	3.56E-06	3.56E-06	1.76E-06
371	259308.51	4085501.4	4.75E-06	6.87E-05	5.06E-05	5.06E-05	2.82E-05	7.21E-07	1.05E-05	7.91E-06	7.91E-06	4.35E-06	3.92E-07	5.66E-06	3.52E-06	3.52E-06	1.74E-06
372	259299.87	4085524.37	4.69E-06	6.78E-05	5.00E-05	5.00E-05	2.79E-05	7.12E-07	1.03E-05	7.81E-06	7.81E-06	4.29E-06	3.87E-07	5.59E-06	3.47E-06	3.47E-06	1.72E-06
373	259291.24	4085547.33	4.63E-06	6.70E-05	4.94E-05	4.94E-05	2.75E-05	7.03E-07	1.02E-05	7.71E-06	7.71E-06	4.24E-06	3.82E-07	5.52E-06	3.43E-06	3.43E-06	1.70E-06
374	259282.6	4085570.3	4.58E-06	6.62E-05	4.88E-05	4.88E-05	2.72E-05	6.95E-07	1.01E-05	7.62E-06	7.62E-06	4.19E-06	3.77E-07	5.46E-06	3.39E-06	3.39E-06	1.68E-06
375	259273.96	4085593.26	4.52E-06	6.54E-05	4.82E-05	4.82E-05	2.69E-05	6.86E-07	9.96E-06	7.52E-06	7.52E-06	4.14E-06	3.73E-07	5.39E-06	3.35E-06	3.35E-06	1.66E-06
376	259265.32	4085616.23	4.46E-06	6.45E-05	4.76E-05	4.76E-05	2.65E-05	6.77E-07	9.83E-06	7.43E-06	7.43E-06	4.08E-06	3.68E-07	5.32E-06	3.31E-06	3.31E-06	1.64E-06
377	259256.69	4085639.19	4.40E-06	6.37E-05	4.69E-05	4.69E-05	2.62E-05	6.68E-07	9.70E-06	7.33E-06	7.33E-06	4.03E-06	3.63E-07	5.25E-06	3.26E-06	3.26E-06	1.61E-06
378	259248.05	4085662.16	4.34E-06	6.28E-05	4.63E-05	4.63E-05	2.58E-05	6.59E-07	9.56E-06	7.22E-06	7.22E-06	3.97E-06	3.58E-07	5.17E-06	3.21E-06	3.21E-06	1.59E-06
379	259239.41	4085685.12	4.27E-06	6.18E-05	4.56E-05	4.56E-05	2.54E-05	6.49E-07	9.42E-06	7.11E-06	7.11E-06	3.91E-06	3.52E-07	5.10E-06	3.17E-06	3.17E-06	1.57E-06
380	259230.77	4085708.09	4.20E-06	6.08E-05	4.48E-05	4.48E-05	2.50E-05	6.38E-07	9.26E-06	7.00E-06	7.00E-06	3.85E-06	3.47E-07	5.01E-06	3.11E-06	3.11E-06	1.54E-06
381	259222.13	4085731.06	4.14E-06	5.98E-05	4.41E-05	4.41E-05	2.46E-05	6.28E-07	9.11E-06	6.88E-06	6.88E-06	3.78E-06	3.41E-07	4.93E-06	3.06E-06	3.06E-06	1.52E-06
382	259213.5	4085754.02	4.07E-06	5.88E-05	4.34E-05	4.34E-05	2.42E-05	6.17E-07	8.96E-06	6.77E-06	6.77E-06	3.72E-06	3.35E-07	4.85E-06	3.01E-06	3.01E-06	1.49E-06
383	259204.86	4085776.99	4.00E-06	5.79E-05	4.26E-05	4.26E-05	2.38E-05	6.07E-07	8.81E-06	6.66E-06	6.66E-06	3.66E-06	3.30E-07	4.77E-06	2.96E-06	2.96E-06	1.47E-06
384	259196.22	4085799.95	3.94E-06	5.70E-05	4.20E-05	4.20E-05	2.34E-05	5.98E-07	8.68E-06	6.56E-06	6.56E-06	3.60E-06	3.25E-07	4.70E-06	2.92E-06	2.92E-06	1.44E-06
385	259187.58	4085822.92	3.88E-06	5.61E-05	4.14E-05	4.14E-05	2.31E-05	5.89E-07	8.55E-06	6.46E-06	6.46E-06	3.55E-06	3.20E-07	4.63E-06	2.87E-06	2.87E-06	1.42E-06
386	259178.95	4085845.88	3.83E-06	5.54E-05	4.08E-05	4.08E-05	2.28E-05	5.81E-07	8.44E-06	6.37E-06	6.37E-06	3.50E-06	3.16E-07	4.57E-06	2.84E-06	2.84E-06	1.40E-06
387	259148.04	4085879.15	3.83E-06	5.53E-05	4.08E-05	4.08E-05	2.27E-05	5.81E-07	8.43E-06	6.37E-06	6.37E-06	3.50E-06	3.15E-07	4.56E-06	2.83E-06	2.83E-06	1.40E-06
388	259125.77	4085889.45	3.87E-06	5.60E-05	4.13E-05	4.13E-05	2.30E-05	5.87E-07	8.53E-06	6.44E-06	6.44E-06	3.54E-06	3.19E-07	4.61E-06	2.87E-06	2.87E-06	1.42E-06
389	259103.5	4085899.75	3.92E-06	5.66E-05	4.17E-05	4.17E-05	2.33E-05	5.94E-07	8.63E-06	6.52E-06	6.52E-06	3.58E-06	3.23E-07	4.67E-06	2.90E-06	2.90E-06	1.44E-06
390	259081.23	4085910.05	3.96E-06	5.73E-05	4.22E-05	4.22E-05	2.36E-05	6.01E-07	8.73E-06	6.60E-06	6.60E-06	3.63E-06	3.27E-07	4.72E-06	2.93E-06	2.93E-06	1.45E-06
391	259058.96	4085920.35	4.01E-06	5.80E-05	4.28E-05	4.28E-05	2.38E-05	6.09E-07	8.84E-06	6.68E-06	6.68E-06	3.67E-06	3.31E-07	4.78E-06	2.97E-06	2.97E-06	1.47E-06
392	259036.69	4085930.65	4.06E-06	5.88E-05	4.33E-05	4.33E-05	2.42E-05	6.17E-07	8.95E-06	6.76E-06	6.76E-06	3.72E-06	3.35E-07	4.84E-06	3.01E-06	3.01E-06	1.49E-06
393	259014.42	4085940.95	4.12E-06	5.95E-05	4.39E-05	4.39E-05	2.45E-05	6.25E-07	9.07E-06	6.85E-06	6.85E-06	3.77E-06	3.39E-07	4.91E-06	3.05E-06	3.05E-06	1.51E-06
394	258992.15	4085951.25	4.17E-06	6.04E-05	4.45E-05	4.45E-05	2.48E-05	6.33E-07	9.20E-06	6.95E-06	6.95E-06	3.82E-06	3.44E-07	4.98E-06	3.09E-06	3.09E-06	1.53E-06
395	258969.88	4085961.54	4.23E-06	6.12E-05	4.51E-05	4.51E-05	2.52E-05	6.42E-07	9.33E-06	7.05E-06	7.05E-06	3.87E-06	3.49E-07	5.05E-06	3.14E-06	3.14E-06	1.55E-06
396	258947.61	4085971.84	4.29E-06	6.21E-05	4.57E-05	4.57E-05	2.55E-05	6.51E-07	9.45E-06	7.14E-06	7.14E-06	3.93E-06	3.54E-07	5.12E-06	3.18E-06	3.18E-06	1.57E-06
397	258925.34	4085982.14	4.36E-06	6.31E-05	4.65E-05	4.65E-05	2.59E-05	6.62E-07	9.62E-06	7.26E-06	7.26E-06	3.99E-06	3.60E-07	5.20E-06	3.23E-06	3.23E-06	1.60E-06
398	258903.07	4085992.44	4.45E-06	6.44E-05	4.75E-05	4.75E-05	2.65E-05	6.76E-07	9.81E-06	7.41E-06	7.41E-06	4.07E-06	3.67E-07	5.31E-06	3.30E-06	3.30E-06	1.63E-06
399	258880.8	4086002.74	4.55E-06	6.58E-05	4.85E-05	4.85E-05	2.70E-05	6.90E-07	1.00E-05	7.57E-06	7.57E-06	4.16E-06	3.75E-07	5.42E-06	3.37E-06	3.37E-06	1.67E-06
400	258858.53	4086013.04	4.66E-06	6.73E-05	4.96E-05	4.96E-05	2.77E-05	7.07E-07	1.03E-05	7.75E-06	7.75E-06	4.26E-06	3.84E-07	5.55E-06	3.45E-06	3.45E-06	1.71E-06
401	258836.26	4086023.34	4.77E-06	6.89E-05	5.08E-05	5.08E-05	2.83E-05	7.23E-07	1.05E-05	7.93E-06	7.93E-06	4.36E-06	3.93E-07	5.68E-06	3.53E-06	3.53E-06	1.75E-06
402	258813.99	4086033.64	4.88E-06	7.05E-05	5.20E-05	5.20E-05	2.90E-05	7.40E-07	1.07E-05	8.12E-06	8.12E-06	4.46E-06	4.02E-07	5.81E-06	3.61E-06	3.61E-06	1.79E-06
403	258791.72	4086043.94	4.98E-06	7.20E-05	5.31E-05	5.31E-05	2.96E-05	7.56E-07	1.10E-05	8.29E-06	8.29E-06	4.56E-06	4.11E-07	5.94E-06	3.69E-06	3.69E-06	1.83E-06
404	258769.45	4086054.24	5.08E-06	7.34E-05	5.41E-05	5.41E-05	3.02E-05	7.71E-07	1.12E-05	8.45E-06	8.45E-06	4.65E-06	4.19E-07	6.05E-06	3.76E-06	3.76E-06	1.86E-06
405	258747.18	4086064.54	5.16E-06	7.47E-05	5.50E-05	5.50E-05	3.07E-05	7.84E-07	1.14E-05	8.60E-06	8.60E-06	4.73E-06	4.26E-07	6.16E-06	3.82E-06	3.82E-06	1.89E-06
406	258724.91	4086074.84	5.24E-06	7.57E-05	5.58E-05	5.58E-05	3.11E-05	7.95E-07	1.15E-05	8.71E-06	8.71E-06	4.79E-06	4.32E-07	6.24E-06	3.88E-06	3.88E-06	1.92E-06
407	258702.64	4086085.14	5.30E-06	7.66E-05	5.65E-05	5.65E-05	3.15E-05	8.04E-07	1.17E-05	8.82E-06	8.82E-06	4.85E-06	4.37E-07	6.32E-06	3.92E-06	3.92E-06	1.94E-06
408	258680.37	4086095.44	5.36E-06	7.75E-05	5.71E-05	5.71E-05	3.18E-05	8.13E-07	1.18E-05	8.92E-06	8.92E-06	4.90E-06	4.42E-07	6.39E-06	3.97E-06	3.97E-06	1.96E-06
409	258658.1	4086105.74	5.41E-06	7.82E-05	5.76E-05	5.76E-05	3.21E-05	8.21E-07	1.19E-05	9.00E-06	9.00E-06	4.95E-06	4.46E-07	6.45E-06	4.00E-06	4.00E-06	1.98E-06
410	258635.83	4086116.04	5.46E-06	7.90E-05	5.82E-05	5.82E-05	3.24E-05	8.28E-07	1.20E-05	9.09E-06	9.09E-06	5.00E-06	4.50E-07	6.51E-06	4.04E-06	4.04E-06	2.00E-06
411	258613.56	4086126.34	5.51E-06	7.97E-05	5.88E-05	5.88E-05	3.28E-05	8.37E-07	1.21E-05	9.17E-06	9.17E-06	5.04E-06	4.54E-07	6.57E-06	4.08E-06	4.08E-06	2.02E-06
412	258591.29	4086136.64	5.57E-06	8.05E-05	5.94E-05	5.94E-05	3.31E-05	8.45E-07	1.23E-05	9.27E-06	9.27E-06	5.09E-06	4.59E-07	6.64E-06	4.12E-06	4.12E-06	2.04E-06
413	258569.02	4086146.94	5.63E-06	8.14E-05	6.00E-05	6.00E-05	3.35E-05	8.54E-07	1.24E-05	9.37E-06	9.37E-06	5.15E-06	4.64E-07	6.71E-06	4.17E-06	4.17E-06	2.06E-06
414	258546.75	4086157.24	5.69E-06	8.24E-05	6.07E-05	6.07E-05	3.38E-05	8.64E-07	1.25E-05	9.48E-06	9.48E-06	5.21E-06	4.69E-07	6.79E-06	4.22E-06	4.22E-06	2.09E-06
415	258524.48	4086167.54	5.77E-06	8.34E-05	6.15E-05	6.15E-05	3.43E-05	8.75E-07	1.27E-05	9.60E-06	9.60E-06	5.28E-06	4.75E-07	6.87E-06	4.27E-06	4.27E-06	2.11E-06
416	258502.21	4086177.83	5.84E-06	8.45E-05	6.23E-05	6.23E-05	3.47E-05	8.87E-07	1.29E-05	9.72E-06	9.72E-06	5.35E-06	4.82E-07	6.96E-06	4.33E-06	4.33E-06	2.14E-06

417	258479.94	4086188.13	5.93E-06	8.57E-05	6.32E-05	6.32E-05	3.52E-05	8.99E-07	1.31E-05	9.86E-06	9.86E-06	5.42E-06	4.88E-07	7.07E-06	4.39E-06	4.39E-06	2.17E-06
418	258457.67	4086198.43	6.01E-06	8.69E-05	6.40E-05	6.40E-05	3.57E-05	9.12E-07	1.32E-05	1.00E-05	1.00E-05	5.50E-06	4.95E-07	7.16E-06	4.45E-06	4.45E-06	2.20E-06
419	258435.4	4086208.73	6.10E-06	8.83E-05	6.51E-05	6.51E-05	3.63E-05	9.26E-07	1.35E-05	1.02E-05	1.02E-05	5.59E-06	5.03E-07	7.28E-06	4.52E-06	4.52E-06	2.24E-06
420	259463.99	4085088.02	6.24E-06	9.02E-05	6.65E-05	6.65E-05	3.71E-05	9.47E-07	1.37E-05	1.04E-05	1.04E-05	5.71E-06	5.14E-07	7.44E-06	4.62E-06	4.62E-06	2.29E-06
421	259463.27	4085063.26	6.36E-06	9.19E-05	6.78E-05	6.78E-05	3.78E-05	9.65E-07	1.40E-05	1.06E-05	1.06E-05	5.82E-06	5.24E-07	7.58E-06	4.71E-06	4.71E-06	2.33E-06
422	259462.55	4085038.51	6.51E-06	9.41E-05	6.94E-05	6.94E-05	3.87E-05	9.88E-07	1.43E-05	1.08E-05	1.08E-05	5.96E-06	5.36E-07	7.76E-06	4.82E-06	4.82E-06	2.39E-06
423	259461.82	4085013.75	6.68E-06	9.66E-05	7.12E-05	7.12E-05	3.97E-05	1.01E-06	1.47E-05	1.11E-05	1.11E-05	6.11E-06	5.51E-07	7.97E-06	4.95E-06	4.95E-06	2.45E-06
424	259461.1	4084989	6.89E-06	9.96E-05	7.34E-05	7.34E-05	4.09E-05	1.05E-06	1.52E-05	1.15E-05	1.15E-05	6.30E-06	5.68E-07	8.21E-06	5.10E-06	5.10E-06	2.52E-06
425	259460.38	4084964.24	7.12E-06	1.03E-04	7.59E-05	7.59E-05	4.23E-05	1.08E-06	1.57E-05	1.18E-05	1.18E-05	6.51E-06	5.87E-07	8.48E-06	5.27E-06	5.27E-06	2.61E-06
426	259459.66	4084939.48	7.37E-06	1.07E-04	7.85E-05	7.85E-05	4.38E-05	1.12E-06	1.62E-05	1.23E-05	1.23E-05	6.74E-06	6.07E-07	8.78E-06	5.46E-06	5.46E-06	2.70E-06
427	259458.93	4084914.73	7.62E-06	1.10E-04	8.13E-05	8.13E-05	4.53E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.98E-06	6.28E-07	9.09E-06	5.65E-06	5.65E-06	2.79E-06
428	259458.21	4084889.97	7.88E-06	1.14E-04	8.40E-05	8.40E-05	4.69E-05	1.20E-06	1.74E-05	1.31E-05	1.31E-05	7.21E-06	6.50E-07	9.40E-06	5.84E-06	5.84E-06	2.89E-06
429	259655.23	4085105.26	5.01E-06	7.25E-05	5.34E-05	5.34E-05	2.98E-05	7.61E-07	1.10E-05	8.34E-06	8.34E-06	4.59E-06	4.13E-07	5.98E-06	3.71E-06	3.71E-06	1.84E-06
430	259646.55	4085128.33	5.00E-06	7.24E-05	5.33E-05	5.33E-05	2.97E-05	7.59E-07	1.10E-05	8.33E-06	8.33E-06	4.58E-06	4.12E-07	5.97E-06	3.71E-06	3.71E-06	1.83E-06
431	259637.88	4085151.4	4.99E-06	7.22E-05	5.32E-05	5.32E-05	2.97E-05	7.58E-07	1.10E-05	8.31E-06	8.31E-06	4.57E-06	4.12E-07	5.95E-06	3.70E-06	3.70E-06	1.83E-06
432	259629.2	4085174.47	4.97E-06	7.18E-05	5.30E-05	5.30E-05	2.95E-05	7.54E-07	1.09E-05	8.27E-06	8.27E-06	4.55E-06	4.09E-07	5.92E-06	3.68E-06	3.68E-06	1.82E-06
433	259620.52	4085197.54	4.93E-06	7.14E-05	5.26E-05	5.26E-05	2.93E-05	7.49E-07	1.09E-05	8.21E-06	8.21E-06	4.52E-06	4.07E-07	5.88E-06	3.65E-06	3.65E-06	1.81E-06
434	259611.84	4085220.61	4.89E-06	7.07E-05	5.21E-05	5.21E-05	2.91E-05	7.42E-07	1.08E-05	8.14E-06	8.14E-06	4.47E-06	4.03E-07	5.83E-06	3.62E-06	3.62E-06	1.79E-06
435	259603.17	4085243.68	4.83E-06	6.99E-05	5.15E-05	5.15E-05	2.87E-05	7.33E-07	1.06E-05	8.04E-06	8.04E-06	4.42E-06	3.98E-07	5.76E-06	3.58E-06	3.58E-06	1.77E-06
436	259594.49	4085266.75	4.76E-06	6.88E-05	5.07E-05	5.07E-05	2.83E-05	7.22E-07	1.05E-05	7.92E-06	7.92E-06	4.35E-06	3.92E-07	5.67E-06	3.52E-06	3.52E-06	1.74E-06
437	259585.81	4085289.82	4.67E-06	6.76E-05	4.98E-05	4.98E-05	2.78E-05	7.09E-07	1.03E-05	7.78E-06	7.78E-06	4.28E-06	3.85E-07	5.57E-06	3.46E-06	3.46E-06	1.71E-06
438	259577.14	4085312.89	4.59E-06	6.63E-05	4.89E-05	4.89E-05	2.73E-05	6.96E-07	1.01E-05	7.63E-06	7.63E-06	4.20E-06	3.78E-07	5.47E-06	3.40E-06	3.40E-06	1.68E-06
439	259568.46	4085335.96	4.49E-06	6.50E-05	4.79E-05	4.79E-05	2.67E-05	6.82E-07	9.90E-06	7.48E-06	7.48E-06	4.11E-06	3.70E-07	5.36E-06	3.33E-06	3.33E-06	1.65E-06
440	259559.78	4085359.03	4.40E-06	6.37E-05	4.69E-05	4.69E-05	2.62E-05	6.68E-07	9.70E-06	7.33E-06	7.33E-06	4.03E-06	3.63E-07	5.25E-06	3.26E-06	3.26E-06	1.61E-06
441	259551.11	4085382.1	4.32E-06	6.24E-05	4.60E-05	4.60E-05	2.56E-05	6.55E-07	9.51E-06	7.18E-06	7.18E-06	3.95E-06	3.56E-07	5.14E-06	3.20E-06	3.20E-06	1.58E-06
442	259542.43	4085405.17	4.23E-06	6.12E-05	4.51E-05	4.51E-05	2.51E-05	6.42E-07	9.32E-06	7.04E-06	7.04E-06	3.87E-06	3.49E-07	5.04E-06	3.13E-06	3.13E-06	1.55E-06
443	259533.75	4085428.24	4.15E-06	6.01E-05	4.43E-05	4.43E-05	2.47E-05	6.30E-07	9.15E-06	6.91E-06	6.91E-06	3.80E-06	3.42E-07	4.95E-06	3.08E-06	3.08E-06	1.52E-06
444	259525.07	4085451.31	4.08E-06	5.90E-05	4.35E-05	4.35E-05	2.43E-05	6.19E-07	8.99E-06	6.79E-06	6.79E-06	3.74E-06	3.36E-07	4.87E-06	3.02E-06	3.02E-06	1.50E-06
445	259516.4	4085474.37	4.02E-06	5.81E-05	4.28E-05	4.28E-05	2.39E-05	6.10E-07	8.85E-06	6.68E-06	6.68E-06	3.68E-06	3.31E-07	4.79E-06	2.97E-06	2.97E-06	1.47E-06
446	259507.72	4085497.44	3.96E-06	5.73E-05	4.22E-05	4.22E-05	2.35E-05	6.01E-07	8.73E-06	6.59E-06	6.59E-06	3.62E-06	3.26E-07	4.72E-06	2.93E-06	2.93E-06	1.45E-06
447	259499.04	4085520.51	3.91E-06	5.66E-05	4.17E-05	4.17E-05	2.32E-05	5.94E-07	8.62E-06	6.51E-06	6.51E-06	3.58E-06	3.22E-07	4.66E-06	2.90E-06	2.90E-06	1.43E-06
448	259490.37	4085543.58	3.87E-06	5.60E-05	4.12E-05	4.12E-05	2.30E-05	5.87E-07	8.52E-06	6.44E-06	6.44E-06	3.54E-06	3.19E-07	4.61E-06	2.87E-06	2.87E-06	1.42E-06
449	259481.69	4085566.65	3.83E-06	5.54E-05	4.08E-05	4.08E-05	2.28E-05	5.81E-07	8.44E-06	6.37E-06	6.37E-06	3.50E-06	3.16E-07	4.57E-06	2.84E-06	2.84E-06	1.40E-06
450	259473.01	4085589.72	3.79E-06	5.49E-05	4.04E-05	4.04E-05	2.25E-05	5.76E-07	8.36E-06	6.31E-06	6.31E-06	3.47E-06	3.13E-07	4.52E-06	2.81E-06	2.81E-06	1.39E-06
451	259464.33	4085612.79	3.76E-06	5.44E-05	4.01E-05	4.01E-05	2.23E-05	5.70E-07	8.28E-06	6.26E-06	6.26E-06	3.44E-06	3.10E-07	4.48E-06	2.78E-06	2.78E-06	1.38E-06
452	259455.66	4085635.86	3.73E-06	5.39E-05	3.97E-05	3.97E-05	2.21E-05	5.65E-07	8.21E-06	6.20E-06	6.20E-06	3.41E-06	3.07E-07	4.44E-06	2.76E-06	2.76E-06	1.37E-06
453	259446.98	4085658.93	3.69E-06	5.34E-05	3.93E-05	3.93E-05	2.19E-05	5.60E-07	8.13E-06	6.14E-06	6.14E-06	3.38E-06	3.04E-07	4.40E-06	2.73E-06	2.73E-06	1.35E-06
454	259438.3	4085682	3.66E-06	5.29E-05	3.90E-05	3.90E-05	2.17E-05	5.55E-07	8.06E-06	6.09E-06	6.09E-06	3.35E-06	3.01E-07	4.36E-06	2.71E-06	2.71E-06	1.34E-06
455	259429.63	4085705.07	3.62E-06	5.24E-05	3.86E-05	3.86E-05	2.15E-05	5.50E-07	7.98E-06	6.03E-06	6.03E-06	3.32E-06	2.99E-07	4.32E-06	2.68E-06	2.68E-06	1.33E-06
456	259420.95	4085728.14	3.59E-06	5.19E-05	3.82E-05	3.82E-05	2.13E-05	5.44E-07	7.90E-06	5.97E-06	5.97E-06	3.28E-06	2.96E-07	4.28E-06	2.66E-06	2.66E-06	1.31E-06
457	259412.27	4085751.21	3.55E-06	5.13E-05	3.78E-05	3.78E-05	2.11E-05	5.38E-07	7.82E-06	5.90E-06	5.90E-06	3.25E-06	2.92E-07	4.23E-06	2.63E-06	2.63E-06	1.30E-06
458	259403.6	4085774.28	3.50E-06	5.07E-05	3.74E-05	3.74E-05	2.08E-05	5.32E-07	7.72E-06	5.83E-06	5.83E-06	3.21E-06	2.89E-07	4.18E-06	2.59E-06	2.59E-06	1.28E-06
459	259394.92	4085797.35	3.46E-06	5.00E-05	3.69E-05	3.69E-05	2.06E-05	5.25E-07	7.62E-06	5.76E-06	5.76E-06	3.17E-06	2.85E-07	4.12E-06	2.56E-06	2.56E-06	1.27E-06
460	259386.24	4085820.42	3.41E-06	4.93E-05	3.63E-05	3.63E-05	2.03E-05	5.17E-07	7.51E-06	5.68E-06	5.68E-06	3.12E-06	2.81E-07	4.07E-06	2.53E-06	2.53E-06	1.25E-06
461	259377.56	4085843.49	3.36E-06	4.86E-05	3.58E-05	3.58E-05	2.00E-05	5.10E-07	7.40E-06	5.59E-06	5.59E-06	3.07E-06	2.77E-07	4.00E-06	2.49E-06	2.49E-06	1.23E-06
462	259368.89	4085866.56	3.31E-06	4.78E-05	3.53E-05	3.53E-05	1.97E-05	5.02E-07	7.29E-06	5.50E-06	5.50E-06	3.03E-06	2.73E-07	3.94E-06	2.45E-06	2.45E-06	1.21E-06
463	259360.21	4085889.63	3.26E-06	4.71E-05	3.47E-05	3.47E-05	1.94E-05	4.94E-07	7.18E-06	5.42E-06	5.42E-06	2.98E-06	2.69E-07	3.88E-06	2.41E-06	2.41E-06	1.19E-06
464	259351.53	4085912.7	3.21E-06	4.65E-05	3.43E-05	3.43E-05	1.91E-05	4.88E-07	7.08E-06	5.35E-06	5.35E-06	2.94E-06	2.65E-07	3.83E-06	2.38E-06	2.38E-06	1.18E-06
465	259342.86	4085935.77	3.17E-06	4.58E-05	3.38E-05	3.38E-05	1.88E-05	4.81E-07	6.98E-06	5.28E-06	5.28E-06	2.90E-06	2.61E-07	3.78E-06	2.35E-06	2.35E-06	1.16E-06
466	259334.18	4085958.84	3.14E-06	4.53E-05	3.34E-05	3.34E-05	1.86E-05	4.76E-07	6.91E-06	5.22E-06	5.22E-06	2.87E-06	2.58E-07	3.74E-06	2.32E-06	2.32E-06	1.15E-06
467	259325.5	4085981.91	3.10E-06	4.49E-05	3.31E-05	3.31E-05	1.85E-05	4.71E-07	6.84E-06	5.17E-06	5.17E-06	2.84E-06	2.56E-07	3.70E-06	2.30E-06	2.30E-06	1.14E-06
468	259294.45	4086015.33	3.11E-06	4.50E-05	3.31E-05	3.31E-05	1.85E-05	4.72E-07	6.85E-06	5.17E-06	5.17E-06	2.84E-06	2.56E-07	3.71E-06	2.30E-06	2.30E-06	1.14E-06
469	259272.08	4086025.68	3.14E-06	4.54E-05	3.35E-05	3.35E-05	1.87E-05	4.77E-07	6.92E-06	5.23E-06	5.23E-06	2.87E-06	2.59E-07	3.75E-06	2.33E-06	2.33E-06	1.15E-06
470	259249.71	4086036.02	3.17E-06	4.59E-05	3.38E-05	3.38E-05	1.89E-05	4.82E-07	6.99E-06	5.28E-06	5.28E-06	2.90E-06	2.62E-07	3.78E-06	2.35E-06	2.35E-06	1.16E-06
471	259227.34	4086046.37	3.21E-06	4.64E-05	3.42E-05	3.42E-05	1.91E-05	4.87E-07	7.07E-06	5.34E-06	5.34E-06	2.94E-06	2.65E-07	3.83E-06	2.38E-06	2.38E-06	1.18E-06
472	259204.97	4086056.71	3.24E-06	4.69E-05	3.46E-05	3.46E-05	1.93E-05	4.92E-07	7.14E-06	5.40E-06	5.40E-06	2.97E-06	2.67E-07	3.86E-06	2.40E-06	2.40E-06	1.19E-06
473	259182.6	4086067.06	3.27E-06	4.74E-05	3.49E-05	3.49E-05	1.95E-05	4.97E-07	7.22E-06	5.45E-06	5.45E-06	3.00E-06	2.70E-07	3.90E-06	2.42E-06	2.42E-06	1.20E-06
474	259160.23	4086077.41	3.31E-06	4.78E-05	3.53E-05	3.53E-05	1.97E-05	5.02E-07	7.29E-06	5.50E-06	5.50E-06	3.03E-06	2.73E-07	3.94E-06	2.45E-06	2.45E-06	1.21E-06
475	259137.86	4086087.75	3.35E-06	4.84E-05	3.57E-05	3.57E-05	1.99E-05	5.08E-07	7.37E-06	5.57E-06	5.57E-06	3.06E-06	2.76E-07	3.99E-06	2.48E-06	2.48E-06	1.23E-06
476	259115.49	4086098.1	3.39E-06	4.90E-05	3.61E-05	3.61E-05	2.01E-05	5.14E-07	7.46E-06	5.64E-06	5.64E-06	3.10E-06	2.79E-07	4.04E-06	2.51E-06	2.51E-06	1.24E-06
477	259093.11	4086108.45	3.43E-06	4.96E-05	3.66E-05	3.66E-05	2.04E-05	5.21E-07	7.56E-06	5.71E-06	5.71E-06	3.14E-06	2.83E-07	4.09E-06	2.54E-06	2.54E-06	1.26E-06
478	259070.74	4086118.79	3.48E-06	5.03E-05	3.71E-05	3.71E-05	2.07E-05	5.28E-07	7.66E-06	5.79E-06	5.79E-06	3.18E-06	2.87E-07	4.15E-06	2.58E-06	2.58E-06	1.27E-06
479	259048.37	4086129.14	3.53E-06	5.11E-05	3.76E-05	3.76E-05	2.10E-05	5.36E-07	7.78E-06	5.88E-06	5.88E-06	3.23E-06	2.91E-07	4.21E-06	2.61E-06	2.61E-06	1.29E-06
480	259026	4086139.49	3.59E-06	5.19E-05	3.83E-05	3.83E-05	2.13E-05	5.45E-07	7.91E-06	5.98E-06	5.98E-06	3.29E-06	2.96E-07	4.28E-06	2.66E-06	2.66E-06	1.32E-06
481	259003.63	4086149.83	3.66E-06	5.29E-05	3.90E-05	3.90E-05	2.17E-05	5.55E-07	8.06E-06	6.09E-06	6.09E-06	3.35E-06	3.01E-07	4.36E-06	2.71E-06	2.71E-06	1.34E-06
482	258981.26	4086160.18	3.73E-06	5.40E-05	3.98E-05	3.98E-05	2.22E-05	5.67E-07	8.23E-06	6.21E-06	6.21E-06	3.42E-06	3.08E-07	4.45E-06	2.76E-06	2.76E-06	1.37E-06
483	258958.89	4086170.52	3.82E-06	5.52E-05	4.07E-05	4.07E-05	2.27E-05	5.79E-07	8.41E-06	6.35E-06	6.35E-06	3.49E-06	3.15E-07	4.55E-06	2.83E-06	2.83E-06	1.40E-06
484	258936.52	4086180.87	3.91E-06	5.65E-05	4.16E-05	4.16E-05	2.32E-05	5.93E-07	8.61E-06	6.50E-06	6.50E-06	3.57E-06	3.22E-07	4.66E-06	2.89E-06	2.89E-06	1.43E-06
485	258914.15	4086191.22	4.00E-06	5.78E-05	4.26E-05	4.26E-05	2.37E-05	6.06E-07	8.80E-06	6.65E-06	6.65E-06	3.66E-06	3.29E-07	4.76E-06	2.96E-06	2.96E-06	1.46E-06
486	258891.77	4086201.56	4.08E-06	5.91E-05	4.35E-05	4.35E-05	2.43E-05	6.20E-07	9.00E-06	6.80E-06	6.80E-06	3.74E-06	3.37E-07	4.87E-06	3.02E-06	3.02E-06	1.50E-06
487	258869.4	4086211.91	4.17E-06	6.03E-05	4.44E-05	4.44E-05	2.48E-05	6.33E-07	9.18E-06	6.94E-06	6.94E-06	3.81E-06	3.44E-07	4.97E-06	3.09E-06	3.09E-06	1.53E-06
488	258847.03	4086222.26	4.24E-06	6.13E-05	4.52E-05	4.52E-05	2.52E-05	6.43E-07	9.34E-06	7.06E-06	7.06E-06	3.88E-06	3.49E-07	5.05E-06	3.14E-06	3.14E-06	1.55E-06
489	258824.66	4086232.6	4.30E-06	6.22E-05	4.59E-05	4.59E-05	2.56E-05	6.53E-07	9.48E-06	7.16E-06	7.16E-06	3.94E-06	3.55E-07	5.13E-06	3.19E-06	3.19E-06	1.58E-06
490	258802.29	4086242.95	4.35E-06	6.30E-05	4.64E-05	4.64E-05	2.59E-05	6.61E-07	9.59E-06	7.25E-06	7.25E-06	3.98E-06	3.59E-07	5.19E-06	3.22E-06	3.22E-06	1.60E-06
491	258779.92	4086253.3	4.40E-06	6.36E-05	4.69E-05	4.69E-05	2.61E-05	6.67E-07	9.69E-06	7.32E-06	7.32E-06	4.02E-06	3.62E-07	5.24E-06	3.26E-06	3.26E-06	1.61E-06
492	258757.55	4086263.64	4.43E-06	6.41E-05	4.72E-05	4.72E-05	2.63E-05	6.72E-07	9.76E-06	7.37E-06	7.37E-06	4.05E-06	3.65E-07	5.28E-06	3.28E-06	3.28E-06	1.62E-06
493	258735.18	4086273.99	4.46E-06	6.45E-05	4.76E-05	4.76E-05	2.65E-05	6.77E-07	9.83E-06	7.43E-06	7.43E-06	4.08E-06	3.68E-07	5.32E-06	3.30E-06	3.30E-06	1.64E-06
494	258712.81	4086284.33	4.49E-06	6.49E-05	4.78E-05	4.78E-05	2.67E-05	6.81E-07	9.89E-06	7.47E-06	7.47E-06	4.11E-06	3.70E-07	5.35E-06	3.32E-06	3.32E-06	1.64E-06
495	258690.43	4086294.68	4.51E-06	6.53E-05	4.81E-05	4.81E-05	2.68E-05	6.85E-07	9.95E-06	7.51E-06	7.51E-06	4.13E-06	3.72E-07	5.38E-06	3.34E-06	3.34E-06	1.65E-06
496	258668.06	4086305.03	4.54E-06	6.57E-05	4.85E-05	4.85E-05	2.70E-05	6.90E-07	1.00E-05	7.56E-06	7.56E-06	4.16E-06	3.75E-07	5.42E-06	3.37E-06	3.37E-06	1.67E-06
497	258645.69	4086315.37	4.58E-06	6.62E-05	4.88E-05	4.88E-05	2.72E-05	6.95E-07	1.01E-05	7.62E-06	7.62E-06	4.19E-06	3.77E-07	5.46E-06	3.39E-06	3.39E-06	1.68E-06
498	258623.32	4086325.72	4.62E-06	6.68E-05	4.92E-05	4.92E-05	2.74E-05	7.01E-07	1.02E-05	7.68E-06	7.68E-06	4.22E-06	3.81E-07	5.50E-06	3.42E-06	3.42E-06	1.69E-06
499	258600.95	4086336.07	4.66E-06	6.74E-05	4.97E-05	4.97E-05	2.77E-05	7.07E-07	1.03E-05	7.76E-06	7.76E-06	4.26E-06	3.84E-07	5.56E-06	3.45E-06	3.45E-06	1.71E-06
500	258578.58	4086346.41	4.71E-06	6.81E-05	5.02E-05	5.02E-05	2.80E-05	7.15E-07	1.04E-05	7.84E-06	7.84E-06	4.31E-06	3.88E-07	5.61E-06	3.49E-06	3.49E-06	1.73E-06
501	258556.21	4086356.76	4.76E-06	6.88E-05	5.07E-05	5.07E-05	2.83E-05	7.22E-07	1.05E-05	7.92E-06	7.92E-06	4.36E-06	3.92E-07	5.68E-06	3.53E-06	3.53E-06	1.74E-06
502	258533.84	4086367.11	4.82E-06	6.96E-05	5.13E-05	5.13E-05	2.86E-05	7.31E-07	1.06E-05	8.02E-06	8.02E-06	4.41E-06	3.97E-07	5.74E-06	3.57E-06	3.57E-06	1.77E-06
503	258511.47	4086377.45	4.87E-06	7.05E-05	5.19E-05	5.19E-05	2.90E-05	7.40E-07	1.07E-05	8.11E-06	8.11E-06	4.46E-06	4.02E-07	5.81E-06	3.61E-06	3.61E-06	1.79E-06
504	258489.09	4086387.8	4.93E-06	7.13E-05	5.26E-05	5.26E-05	2.93E-05	7.49E-07	1.09E-05	8.21E-06	8.21E-06	4.51E-06	4.07E-07	5.88E-06	3.65E-06	3.65E-06	1.81E-06
505	258466.72	4086398.14	4.99E-06	7.22E-05	5.32E-05	5.32E-05	2.97E-05	7.58E-07	1.10E-05	8.31E-06	8.31E-06	4.57E-06	4.12E-07	5.95E-06	3.70E-06	3.70E-06	1.83E-06
506	258444.35	4086408.49	5.05E-06	7.31E-05	5.39E-05	5.39E-05	3.00E-05	7.67E-07	1.11E-05	8.41E-06	8.41E-06	4.62E-06	4.17E-07	6.02E-06	3.74E-06	3.74E-06	1.85E-06
507	259663.91	4085082.19	5.03E-06	7.27E-05	5.36E-05	5.36E-05	2.99E-05	7.63E-07	1.11E-05	8.37E-06	8.37E-06	4.60E-06	4.14E-07	5.99E-06	3.72E-06	3.72E-06	1.84E-06
508	259663.18	4085057.43	5.10E-06	7.38E-05	5.44E-05	5.44E-05	3.03E-05	7.74E-07	1.12E-05	8.49E-06	8.49E-06	4.67E-06	4.21E-07	6.08E-06	3.78E-06	3.78E-06	1.87E-06
509	259662.46	4085032.67	5.20E-06	7.52E-05	5.54E-05	5.54E-05	3.09E-05	7.89E-07	1.15E-05	8.65E-06	8.65E-06	4.76E-06	4.28E-07	6.20E-06	3.85E-06	3.85E-06	1.90E-06
510	259661.74	4085007.92	5.31E-06	7.68E-05	5.66E-05	5.66E-05	3.16E-05	8.06E-07	1.17E-05	8.84E-06	8.84E-06	4.86E-06	4.38E-07	6.33E-06	3.93E-06	3.93E-06	1.95E-06
511	259661.02	4084983.16	5.45E-06	7.88E-05	5.81E-05	5.81E-05	3.24E-05	8.27E-07	1.20E-05	9.07E-06	9.07E-06	4.99E-06	4.49E-07	6.50E-06	4.04E-06	4.04E-06	2.00E-06
512	259660.29	4084958.4	5.61E-06	8.11E-05	5.98E-05	5.98E-05	3.33E-05	8.51E-07	1.24E-05	9.34E-06	9.34E-06	5.13E-06	4.62E-07	6.69E-06	4.15E-06	4.15E-06	2.06E-06
513	259659.57	4084933.65	5.79E-06	8.37E-05	6.17E-05	6.17E-05	3.44E-05	8.79E-07	1.28E-05	9.64E-06	9.64E-06	5.30E-06	4.77E-07	6.90E-06	4.29E-06	4.29E-06	2.12E-06
514	259658.85	4084908.89	5.97E-06	8.64E-05	6.37E-05	6.37E-05	3.55E-05	9.07E-07	1.32E-05	9.94E-06	9.94E-06	5.47E-06	4.92E-07	7.12E-06	4.42E-06	4.42E-06	2.19E-06
515	259658.13	4084884.14	6.16E-06	8.91E-05	6.56E-05	6.56E-05	3.66E-05	9.35E-07	1.36E-05	1.02E-05	1.02E-05	5.63E-06	5.08E-07	7.34E-06	4.56E-06	4.56E-06	2.26E-06
516	259855.12	4085099.5	4.19E-06	6.06E-05	4.47E-05	4.47E-05	2.49E-05	6.36E-07	9.23E-06	6.97E-06	6.97E-06	3.83E-06	3.45E-07	5.00E-06	3.10E-06	3.10E-06	1.54E-06
517	259846.41	4085122.65	4.19E-06	6.06E-05	4.46E-05	4.46E-05	2.49E-05	6.36E-07	9.23E-06	6.97E-06	6.97E-06	3.83E-06	3.45E-07	4.99E-06	3.10E-06	3.10E-06	1.54E-06
518	259837.7	4085145.79	4.19E-06	6.06E-05	4.46E-05	4.46E-05	2.49E-05	6.36E-07	9.23E-06	6.97E-06	6.97E-06	3.83E-06	3.45E-07	4.99E-06	3.10E-06	3.10E-06	1.54E-06
519	259829	4085168.94	4.18E-06	6.05E-05	4.46E-05	4.46E-05	2.49E-05	6.35E-07	9.22E-06	6.96E-06	6.96E-06	3.83E-06	3.45E-07	4.99E-06	3.10E-06	3.10E-06	1.53E-06
520	259820.29	4085192.09	4.17E-06	6.04E-05	4.45E-05	4.45E-05	2.48E-05	6.33E-07	9.20E-06	6.95E-06	6.95E-06	3.82E-06	3.44E-07	4.98E-06	3.09E-06	3.09E-06	1.53E-06
521	259811.59	4085215.23	4.16E-06	6.01E-05	4.43E-05	4.43E-05	2.47E-05	6.31E-07	9.16E-06	6.92E-06	6.92E-06	3.80E-06	3.43E-07	4.95E-06	3.08E-06	3.08E-06	1.52E-06

522	259802.88	4085238.38	4.12E-06	5.97E-05	4.40E-05	4.40E-05	2.45E-05	6.26E-07	9.09E-06	6.87E-06	6.87E-06	3.77E-06	3.40E-07	4.92E-06	3.05E-06	3.05E-06	1.51E-06
523	259794.17	4085261.53	4.08E-06	5.90E-05	4.35E-05	4.35E-05	2.43E-05	6.19E-07	8.99E-06	6.79E-06	6.79E-06	3.74E-06	3.36E-07	4.87E-06	3.02E-06	3.02E-06	1.50E-06
524	259785.47	4085284.68	4.03E-06	5.82E-05	4.29E-05	4.29E-05	2.39E-05	6.11E-07	8.87E-06	6.70E-06	6.70E-06	3.68E-06	3.32E-07	4.80E-06	2.98E-06	2.98E-06	1.48E-06
525	259776.76	4085307.82	3.96E-06	5.73E-05	4.22E-05	4.22E-05	2.36E-05	6.01E-07	8.73E-06	6.60E-06	6.60E-06	3.63E-06	3.27E-07	4.72E-06	2.93E-06	2.93E-06	1.45E-06
526	259768.05	4085330.97	3.90E-06	5.63E-05	4.15E-05	4.15E-05	2.32E-05	5.91E-07	8.58E-06	6.48E-06	6.48E-06	3.56E-06	3.21E-07	4.64E-06	2.88E-06	2.88E-06	1.43E-06
527	259759.35	4085354.12	3.82E-06	5.53E-05	4.08E-05	4.08E-05	2.27E-05	5.80E-07	8.43E-06	6.36E-06	6.36E-06	3.50E-06	3.15E-07	4.56E-06	2.83E-06	2.83E-06	1.40E-06
528	259750.64	4085377.26	3.75E-06	5.43E-05	4.00E-05	4.00E-05	2.23E-05	5.70E-07	8.27E-06	6.25E-06	6.25E-06	3.44E-06	3.09E-07	4.48E-06	2.78E-06	2.78E-06	1.38E-06
529	259741.94	4085400.41	3.68E-06	5.33E-05	3.93E-05	3.93E-05	2.19E-05	5.59E-07	8.12E-06	6.13E-06	6.13E-06	3.37E-06	3.04E-07	4.39E-06	2.73E-06	2.73E-06	1.35E-06
530	259733.23	4085423.56	3.62E-06	5.23E-05	3.86E-05	3.86E-05	2.15E-05	5.49E-07	7.97E-06	6.02E-06	6.02E-06	3.31E-06	2.98E-07	4.31E-06	2.68E-06	2.68E-06	1.33E-06
531	259724.52	4085446.71	3.55E-06	5.14E-05	3.79E-05	3.79E-05	2.11E-05	5.39E-07	7.83E-06	5.91E-06	5.91E-06	3.25E-06	2.93E-07	4.24E-06	2.63E-06	2.63E-06	1.30E-06
532	259715.82	4085469.85	3.49E-06	5.05E-05	3.72E-05	3.72E-05	2.08E-05	5.30E-07	7.70E-06	5.82E-06	5.82E-06	3.20E-06	2.88E-07	4.17E-06	2.59E-06	2.59E-06	1.28E-06
533	259707.11	4085493	3.44E-06	4.97E-05	3.67E-05	3.67E-05	2.04E-05	5.22E-07	7.58E-06	5.72E-06	5.72E-06	3.15E-06	2.83E-07	4.10E-06	2.55E-06	2.55E-06	1.26E-06
534	259698.41	4085516.15	3.39E-06	4.90E-05	3.61E-05	3.61E-05	2.01E-05	5.14E-07	7.47E-06	5.64E-06	5.64E-06	3.10E-06	2.79E-07	4.04E-06	2.51E-06	2.51E-06	1.24E-06
535	259689.7	4085539.29	3.34E-06	4.83E-05	3.56E-05	3.56E-05	1.99E-05	5.07E-07	7.36E-06	5.56E-06	5.56E-06	3.06E-06	2.75E-07	3.98E-06	2.48E-06	2.48E-06	1.23E-06
536	259680.99	4085562.44	3.31E-06	4.78E-05	3.53E-05	3.53E-05	1.97E-05	5.02E-07	7.29E-06	5.50E-06	5.50E-06	3.03E-06	2.73E-07	3.94E-06	2.45E-06	2.45E-06	1.21E-06
537	259672.29	4085585.59	3.27E-06	4.73E-05	3.49E-05	3.49E-05	1.94E-05	4.96E-07	7.21E-06	5.44E-06	5.44E-06	2.99E-06	2.70E-07	3.90E-06	2.42E-06	2.42E-06	1.20E-06
538	259663.58	4085608.73	3.24E-06	4.69E-05	3.45E-05	3.45E-05	1.93E-05	4.92E-07	7.14E-06	5.39E-06	5.39E-06	2.96E-06	2.67E-07	3.86E-06	2.40E-06	2.40E-06	1.19E-06
539	259654.88	4085631.88	3.21E-06	4.65E-05	3.43E-05	3.43E-05	1.91E-05	4.88E-07	7.08E-06	5.35E-06	5.35E-06	2.94E-06	2.65E-07	3.83E-06	2.38E-06	2.38E-06	1.18E-06
540	259646.17	4085655.03	3.19E-06	4.61E-05	3.40E-05	3.40E-05	1.90E-05	4.84E-07	7.03E-06	5.31E-06	5.31E-06	2.92E-06	2.63E-07	3.80E-06	2.36E-06	2.36E-06	1.17E-06
541	259637.46	4085678.18	3.17E-06	4.58E-05	3.38E-05	3.38E-05	1.88E-05	4.81E-07	6.98E-06	5.27E-06	5.27E-06	2.90E-06	2.61E-07	3.78E-06	2.35E-06	2.35E-06	1.16E-06
542	259628.76	4085701.32	3.15E-06	4.55E-05	3.35E-05	3.35E-05	1.87E-05	4.77E-07	6.93E-06	5.24E-06	5.24E-06	2.88E-06	2.59E-07	3.75E-06	2.33E-06	2.33E-06	1.15E-06
543	259620.05	4085724.47	3.12E-06	4.52E-05	3.33E-05	3.33E-05	1.86E-05	4.74E-07	6.88E-06	5.20E-06	5.20E-06	2.86E-06	2.57E-07	3.72E-06	2.31E-06	2.31E-06	1.14E-06
544	259611.35	4085747.62	3.09E-06	4.48E-05	3.30E-05	3.30E-05	1.84E-05	4.70E-07	6.82E-06	5.15E-06	5.15E-06	2.83E-06	2.55E-07	3.69E-06	2.29E-06	2.29E-06	1.13E-06
545	259602.64	4085770.76	3.07E-06	4.45E-05	3.28E-05	3.28E-05	1.83E-05	4.66E-07	6.77E-06	5.12E-06	5.12E-06	2.81E-06	2.53E-07	3.66E-06	2.28E-06	2.28E-06	1.13E-06
546	259593.93	4085793.91	3.05E-06	4.41E-05	3.25E-05	3.25E-05	1.81E-05	4.63E-07	6.72E-06	5.08E-06	5.08E-06	2.79E-06	2.51E-07	3.64E-06	2.26E-06	2.26E-06	1.12E-06
547	259585.23	4085817.06	3.03E-06	4.38E-05	3.23E-05	3.23E-05	1.80E-05	4.59E-07	6.67E-06	5.04E-06	5.04E-06	2.77E-06	2.49E-07	3.61E-06	2.24E-06	2.24E-06	1.11E-06
548	259576.52	4085840.21	3.00E-06	4.34E-05	3.20E-05	3.20E-05	1.78E-05	4.56E-07	6.61E-06	5.00E-06	5.00E-06	2.75E-06	2.47E-07	3.58E-06	2.22E-06	2.22E-06	1.10E-06
549	259567.82	4085863.35	2.97E-06	4.30E-05	3.17E-05	3.17E-05	1.77E-05	4.51E-07	6.55E-06	4.95E-06	4.95E-06	2.72E-06	2.45E-07	3.54E-06	2.20E-06	2.20E-06	1.09E-06
550	259559.11	4085886.5	2.94E-06	4.25E-05	3.13E-05	3.13E-05	1.75E-05	4.46E-07	6.48E-06	4.89E-06	4.89E-06	2.69E-06	2.42E-07	3.51E-06	2.18E-06	2.18E-06	1.08E-06
551	259550.4	4085909.65	2.91E-06	4.20E-05	3.10E-05	3.10E-05	1.73E-05	4.41E-07	6.40E-06	4.84E-06	4.84E-06	2.66E-06	2.40E-07	3.46E-06	2.15E-06	2.15E-06	1.07E-06
552	259541.7	4085932.79	2.87E-06	4.15E-05	3.06E-05	3.06E-05	1.71E-05	4.35E-07	6.32E-06	4.78E-06	4.78E-06	2.63E-06	2.36E-07	3.42E-06	2.12E-06	2.12E-06	1.05E-06
553	259532.99	4085955.94	2.83E-06	4.09E-05	3.02E-05	3.02E-05	1.68E-05	4.29E-07	6.24E-06	4.71E-06	4.71E-06	2.59E-06	2.33E-07	3.37E-06	2.10E-06	2.10E-06	1.04E-06
554	259524.29	4085979.09	2.79E-06	4.04E-05	2.98E-05	2.98E-05	1.66E-05	4.24E-07	6.15E-06	4.65E-06	4.65E-06	2.55E-06	2.30E-07	3.33E-06	2.07E-06	2.07E-06	1.02E-06
555	259515.58	4086002.24	2.75E-06	3.98E-05	2.94E-05	2.94E-05	1.64E-05	4.18E-07	6.07E-06	4.58E-06	4.58E-06	2.52E-06	2.27E-07	3.28E-06	2.04E-06	2.04E-06	1.01E-06
556	259506.87	4086025.38	2.72E-06	3.93E-05	2.90E-05	2.90E-05	1.62E-05	4.13E-07	5.99E-06	4.53E-06	4.53E-06	2.49E-06	2.24E-07	3.24E-06	2.01E-06	2.01E-06	9.97E-07
557	259498.17	4086048.53	2.69E-06	3.89E-05	2.86E-05	2.86E-05	1.60E-05	4.08E-07	5.92E-06	4.47E-06	4.47E-06	2.46E-06	2.21E-07	3.20E-06	1.99E-06	1.99E-06	9.85E-07
558	259489.46	4086071.68	2.66E-06	3.85E-05	2.84E-05	2.84E-05	1.58E-05	4.04E-07	5.86E-06	4.43E-06	4.43E-06	2.43E-06	2.19E-07	3.17E-06	1.97E-06	1.97E-06	9.75E-07
559	259480.75	4086094.82	2.64E-06	3.81E-05	2.81E-05	2.81E-05	1.57E-05	4.00E-07	5.81E-06	4.39E-06	4.39E-06	2.41E-06	2.17E-07	3.14E-06	1.95E-06	1.95E-06	9.66E-07
560	259472.05	4086117.97	2.61E-06	3.78E-05	2.79E-05	2.79E-05	1.55E-05	3.97E-07	5.76E-06	4.35E-06	4.35E-06	2.39E-06	2.15E-07	3.11E-06	1.93E-06	1.93E-06	9.58E-07
561	259440.9	4086151.5	2.61E-06	3.78E-05	2.79E-05	2.79E-05	1.55E-05	3.97E-07	5.76E-06	4.35E-06	4.35E-06	2.39E-06	2.16E-07	3.12E-06	1.94E-06	1.94E-06	9.58E-07
562	259418.45	4086161.88	2.64E-06	3.82E-05	2.81E-05	2.81E-05	1.57E-05	4.01E-07	5.82E-06	4.39E-06	4.39E-06	2.42E-06	2.18E-07	3.15E-06	1.95E-06	1.95E-06	9.67E-07
563	259396.01	4086172.26	2.67E-06	3.86E-05	2.84E-05	2.84E-05	1.58E-05	4.05E-07	5.87E-06	4.44E-06	4.44E-06	2.44E-06	2.20E-07	3.18E-06	1.97E-06	1.97E-06	9.77E-07
564	259373.56	4086182.64	2.69E-06	3.89E-05	2.87E-05	2.87E-05	1.60E-05	4.09E-07	5.93E-06	4.48E-06	4.48E-06	2.46E-06	2.22E-07	3.21E-06	1.99E-06	1.99E-06	9.87E-07
565	259351.11	4086193.02	2.72E-06	3.94E-05	2.90E-05	2.90E-05	1.62E-05	4.13E-07	6.00E-06	4.53E-06	4.53E-06	2.49E-06	2.24E-07	3.24E-06	2.02E-06	2.02E-06	9.98E-07
566	259328.67	4086203.4	2.75E-06	3.97E-05	2.93E-05	2.93E-05	1.63E-05	4.17E-07	6.05E-06	4.57E-06	4.57E-06	2.51E-06	2.26E-07	3.28E-06	2.03E-06	2.03E-06	1.01E-06
567	259306.22	4086213.78	2.78E-06	4.02E-05	2.96E-05	2.96E-05	1.65E-05	4.21E-07	6.12E-06	4.62E-06	4.62E-06	2.54E-06	2.29E-07	3.31E-06	2.06E-06	2.06E-06	1.02E-06
568	259283.78	4086224.17	2.81E-06	4.06E-05	2.99E-05	2.99E-05	1.67E-05	4.26E-07	6.18E-06	4.67E-06	4.67E-06	2.57E-06	2.31E-07	3.34E-06	2.08E-06	2.08E-06	1.03E-06
569	259261.33	4086234.55	2.84E-06	4.10E-05	3.02E-05	3.02E-05	1.69E-05	4.30E-07	6.25E-06	4.72E-06	4.72E-06	2.60E-06	2.34E-07	3.38E-06	2.10E-06	2.10E-06	1.04E-06
570	259238.88	4086244.93	2.87E-06	4.15E-05	3.06E-05	3.06E-05	1.71E-05	4.35E-07	6.32E-06	4.78E-06	4.78E-06	2.63E-06	2.36E-07	3.42E-06	2.12E-06	2.12E-06	1.05E-06
571	259216.44	4086255.31	2.90E-06	4.20E-05	3.10E-05	3.10E-05	1.73E-05	4.41E-07	6.40E-06	4.83E-06	4.83E-06	2.66E-06	2.39E-07	3.46E-06	2.15E-06	2.15E-06	1.06E-06
572	259193.99	4086265.69	2.94E-06	4.25E-05	3.13E-05	3.13E-05	1.75E-05	4.46E-07	6.48E-06	4.89E-06	4.89E-06	2.69E-06	2.42E-07	3.51E-06	2.18E-06	2.18E-06	1.08E-06
573	259171.55	4086276.07	2.98E-06	4.31E-05	3.18E-05	3.18E-05	1.77E-05	4.52E-07	6.57E-06	4.96E-06	4.96E-06	2.73E-06	2.46E-07	3.55E-06	2.21E-06	2.21E-06	1.09E-06
574	259149.1	4086286.45	3.03E-06	4.38E-05	3.23E-05	3.23E-05	1.80E-05	4.59E-07	6.67E-06	5.04E-06	5.04E-06	2.77E-06	2.49E-07	3.61E-06	2.24E-06	2.24E-06	1.11E-06
575	259126.65	4086296.83	3.08E-06	4.45E-05	3.28E-05	3.28E-05	1.83E-05	4.67E-07	6.78E-06	5.12E-06	5.12E-06	2.81E-06	2.54E-07	3.67E-06	2.28E-06	2.28E-06	1.13E-06
576	259104.21	4086307.21	3.13E-06	4.53E-05	3.34E-05	3.34E-05	1.86E-05	4.75E-07	6.90E-06	5.21E-06	5.21E-06	2.87E-06	2.58E-07	3.73E-06	2.32E-06	2.32E-06	1.15E-06
577	259081.76	4086317.59	3.19E-06	4.62E-05	3.40E-05	3.40E-05	1.90E-05	4.85E-07	7.03E-06	5.31E-06	5.31E-06	2.92E-06	2.63E-07	3.81E-06	2.36E-06	2.36E-06	1.17E-06
578	259059.32	4086327.97	3.26E-06	4.71E-05	3.47E-05	3.47E-05	1.94E-05	4.94E-07	7.18E-06	5.42E-06	5.42E-06	2.98E-06	2.69E-07	3.88E-06	2.41E-06	2.41E-06	1.19E-06
579	259036.87	4086338.36	3.33E-06	4.81E-05	3.55E-05	3.55E-05	1.98E-05	5.05E-07	7.33E-06	5.54E-06	5.54E-06	3.05E-06	2.74E-07	3.97E-06	2.46E-06	2.46E-06	1.22E-06
580	259014.42	4086348.74	3.40E-06	4.92E-05	3.62E-05	3.62E-05	2.02E-05	5.16E-07	7.49E-06	5.66E-06	5.66E-06	3.11E-06	2.80E-07	4.05E-06	2.52E-06	2.52E-06	1.25E-06
581	258991.98	4086359.12	3.47E-06	5.02E-05	3.70E-05	3.70E-05	2.06E-05	5.27E-07	7.65E-06	5.78E-06	5.78E-06	3.18E-06	2.86E-07	4.14E-06	2.57E-06	2.57E-06	1.27E-06
582	258969.53	4086369.5	3.54E-06	5.12E-05	3.77E-05	3.77E-05	2.10E-05	5.37E-07	7.80E-06	5.89E-06	5.89E-06	3.24E-06	2.92E-07	4.22E-06	2.62E-06	2.62E-06	1.30E-06
583	258947.09	4086379.88	3.60E-06	5.21E-05	3.84E-05	3.84E-05	2.14E-05	5.47E-07	7.94E-06	6.00E-06	6.00E-06	3.30E-06	2.97E-07	4.29E-06	2.67E-06	2.67E-06	1.32E-06
584	258924.64	4086390.26	3.66E-06	5.29E-05	3.90E-05	3.90E-05	2.17E-05	5.55E-07	8.05E-06	6.08E-06	6.08E-06	3.35E-06	3.01E-07	4.36E-06	2.71E-06	2.71E-06	1.34E-06
585	258902.19	4086400.64	3.70E-06	5.35E-05	3.95E-05	3.95E-05	2.20E-05	5.62E-07	8.15E-06	6.16E-06	6.16E-06	3.39E-06	3.05E-07	4.41E-06	2.74E-06	2.74E-06	1.36E-06
586	258879.75	4086411.02	3.74E-06	5.41E-05	3.98E-05	3.98E-05	2.22E-05	5.67E-07	8.24E-06	6.22E-06	6.22E-06	3.42E-06	3.08E-07	4.46E-06	2.77E-06	2.77E-06	1.37E-06
587	258857.3	4086421.4	3.77E-06	5.45E-05	4.02E-05	4.02E-05	2.24E-05	5.72E-07	8.30E-06	6.27E-06	6.27E-06	3.45E-06	3.10E-07	4.49E-06	2.79E-06	2.79E-06	1.38E-06
588	258834.86	4086431.78	3.79E-06	5.48E-05	4.04E-05	4.04E-05	2.25E-05	5.75E-07	8.35E-06	6.31E-06	6.31E-06	3.47E-06	3.12E-07	4.52E-06	2.81E-06	2.81E-06	1.39E-06
589	258812.41	4086442.16	3.81E-06	5.51E-05	4.06E-05	4.06E-05	2.26E-05	5.78E-07	8.39E-06	6.34E-06	6.34E-06	3.49E-06	3.14E-07	4.54E-06	2.82E-06	2.82E-06	1.40E-06
590	258789.97	4086452.55	3.83E-06	5.53E-05	4.08E-05	4.08E-05	2.27E-05	5.81E-07	8.43E-06	6.37E-06	6.37E-06	3.50E-06	3.15E-07	4.56E-06	2.83E-06	2.83E-06	1.40E-06
591	258767.52	4086462.93	3.84E-06	5.56E-05	4.10E-05	4.10E-05	2.28E-05	5.83E-07	8.47E-06	6.40E-06	6.40E-06	3.52E-06	3.17E-07	4.58E-06	2.85E-06	2.85E-06	1.41E-06
592	258745.07	4086473.31	3.86E-06	5.59E-05	4.12E-05	4.12E-05	2.30E-05	5.86E-07	8.51E-06	6.43E-06	6.43E-06	3.53E-06	3.18E-07	4.61E-06	2.86E-06	2.86E-06	1.42E-06
593	258722.63	4086483.69	3.88E-06	5.62E-05	4.14E-05	4.14E-05	2.31E-05	5.89E-07	8.56E-06	6.46E-06	6.46E-06	3.55E-06	3.20E-07	4.63E-06	2.88E-06	2.88E-06	1.42E-06
594	258700.18	4086494.07	3.91E-06	5.65E-05	4.16E-05	4.16E-05	2.32E-05	5.93E-07	8.61E-06	6.50E-06	6.50E-06	3.57E-06	3.22E-07	4.66E-06	2.89E-06	2.89E-06	1.43E-06
595	258677.74	4086504.45	3.93E-06	5.69E-05	4.19E-05	4.19E-05	2.34E-05	5.97E-07	8.66E-06	6.55E-06	6.55E-06	3.60E-06	3.24E-07	4.69E-06	2.91E-06	2.91E-06	1.44E-06
596	258655.29	4086514.83	3.96E-06	5.73E-05	4.22E-05	4.22E-05	2.36E-05	6.01E-07	8.73E-06	6.60E-06	6.60E-06	3.63E-06	3.27E-07	4.72E-06	2.93E-06	2.93E-06	1.45E-06
597	258632.84	4086525.21	4.00E-06	5.78E-05	4.26E-05	4.26E-05	2.37E-05	6.06E-07	8.80E-06	6.65E-06	6.65E-06	3.66E-06	3.29E-07	4.76E-06	2.96E-06	2.96E-06	1.46E-06
598	258610.4	4086535.59	4.03E-06	5.83E-05	4.30E-05	4.30E-05	2.40E-05	6.12E-07	8.88E-06	6.71E-06	6.71E-06	3.69E-06	3.32E-07	4.81E-06	2.98E-06	2.98E-06	1.48E-06
599	258587.95	4086545.97	4.07E-06	5.89E-05	4.34E-05	4.34E-05	2.42E-05	6.18E-07	8.97E-06	6.77E-06	6.77E-06	3.72E-06	3.35E-07	4.85E-06	3.01E-06	3.01E-06	1.49E-06
600	258565.51	4086556.36	4.11E-06	5.95E-05	4.38E-05	4.38E-05	2.44E-05	6.24E-07	9.06E-06	6.84E-06	6.84E-06	3.76E-06	3.39E-07	4.90E-06	3.04E-06	3.04E-06	1.51E-06
601	258543.06	4086566.74	4.15E-06	6.01E-05	4.43E-05	4.43E-05	2.47E-05	6.30E-07	9.15E-06	6.91E-06	6.91E-06	3.80E-06	3.42E-07	4.95E-06	3.08E-06	3.08E-06	1.52E-06
602	258520.61	4086577.12	4.20E-06	6.07E-05	4.47E-05	4.47E-05	2.49E-05	6.37E-07	9.25E-06	6.99E-06	6.99E-06	3.84E-06	3.46E-07	5.00E-06	3.11E-06	3.11E-06	1.54E-06
603	258498.17	4086587.5	4.24E-06	6.13E-05	4.52E-05	4.52E-05	2.52E-05	6.43E-07	9.34E-06	7.06E-06	7.06E-06	3.88E-06	3.49E-07	5.05E-06	3.14E-06	3.14E-06	1.55E-06
604	258475.72	4086597.88	4.28E-06	6.19E-05	4.56E-05	4.56E-05	2.54E-05	6.50E-07	9.43E-06	7.12E-06	7.12E-06	3.92E-06	3.53E-07	5.10E-06	3.17E-06	3.17E-06	1.57E-06
605	258453.28	4086608.26	4.32E-06	6.25E-05	4.60E-05	4.60E-05	2.57E-05	6.56E-07	9.52E-06	7.19E-06	7.19E-06	3.95E-06	3.56E-07	5.15E-06	3.20E-06	3.20E-06	1.58E-06
606	259863.82	4085076.35	4.20E-06	6.07E-05	4.47E-05	4.47E-05	2.49E-05	6.37E-07	9.25E-06	6.99E-06	6.99E-06	3.84E-06	3.46E-07	5.00E-06	3.11E-06	3.11E-06	1.54E-06
607	259863.1	4085051.6	4.25E-06	6.14E-05	4.53E-05	4.53E-05	2.52E-05	6.45E-07	9.36E-06	7.07E-06	7.07E-06	3.89E-06	3.50E-07	5.06E-06	3.15E-06	3.15E-06	1.56E-06
608	259862.38	4085026.84	4.31E-06	6.24E-05	4.60E-05	4.60E-05	2.56E-05	6.55E-07	9.50E-06	7.18E-06	7.18E-06	3.95E-06	3.56E-07	5.14E-06	3.19E-06	3.19E-06	1.58E-06
609	259861.65	4085002.08	4.40E-06	6.36E-05	4.69E-05	4.69E-05	2.61E-05	6.68E-07	9.69E-06	7.32E-06	7.32E-06	4.03E-06	3.63E-07	5.25E-06	3.26E-06	3.26E-06	1.61E-06
610	259860.93	4084977.33	4.50E-06	6.51E-05	4.80E-05	4.80E-05	2.68E-05	6.84E-07	9.92E-06	7.50E-06	7.50E-06	4.12E-06	3.71E-07	5.37E-06	3.34E-06	3.34E-06	1.65E-06
611	259860.21	4084952.57	4.62E-06	6.69E-05	4.93E-05	4.93E-05	2.75E-05	7.02E-07	1.02E-05	7.69E-06	7.69E-06	4.23E-06	3.81E-07	5.51E-06	3.42E-06	3.42E-06	1.69E-06
612	259859.49	4084927.81	4.76E-06	6.88E-05	5.07E-05	5.07E-05	2.83E-05	7.22E-07	1.05E-05	7.92E-06	7.92E-06	4.35E-06	3.92E-07	5.67E-06	3.52E-06	3.52E-06	1.74E-06
613	259858.76	4084903.06	4.90E-06	7.08E-05	5.22E-05	5.22E-05	2.91E-05	7.43E-07	1.08E-05	8.15E-06	8.15E-06	4.48E-06	4.04E-07	5.84E-06	3.63E-06	3.63E-06	1.80E-06
614	259858.04	4084878.3	5.04E-06	7.29E-05	5.37E-05	5.37E-05	2.99E-05	7.65E-07	1.11E-05	8.39E-06	8.39E-06	4.61E-06	4.15E-07	6.01E-06	3.73E-06	3.73E-06	1.85E-06
615	258357.65	4084897.08	4.89E-04	7.07E-03	5.21E-03	5.21E-03	2.90E-03	7.42E-05	1.08E-03	8.14E-04	8.14E-04	4.47E-04	4.03E-05	5.83E-04	3.62E-04	3.62E-04	1.79E-04
616	258333.32	4084898.08	5.12E-04	7.40E-03	5.45E-03	5.45E-03	3.04E-03	7.77E-05	1.13E-03	8.52E-04	8.52E-04	4.68E-04	4.22E-05	6.10E-04	3.79E-04	3.79E-04	1.88E-04
617	258308.99	4084899.08	5.24E-04	7.57E-03	5.58E-03	5.58E-03	3.11E-03	7.95E-05	1.15E-03	8.71E-04	8.71E-04	4.79E-04	4.32E-05	6.24E-04	3.88E-04	3.88E-04	1.92E-04
618	258284.66	4084900.08	5.31E-04	7.68E-03	5.66E-03	5.66E-03	3.16E-03	8.06E-05	1.17E-03	8.84E-04	8.84E-04	4.86E-04	4.38E-05	6.33E-04	3.93E-04	3.93E-04	1.95E-04
619	258260.33	4084901.08	5.37E-04	7.76E-03	5.72E-03	5.72E-03	3.19E-03	8.15E-05	1.18E-03	8.94E-04	8.94E-04	4.91E-04	4.42E-05	6.40E-04	3.98E-04	3.98E-04	1.97E-04
620	258235.99	4084902.08	5.41E-04	7.82E-03	5.76E-03	5.76E-03	3.21E-03	8.20E-05	1.19E-03	9.00E-04	9.00E-04	4.95E-04	4.46E-05	6.45E-04	4.00E-04	4.00E-04	1.98E-04
621	258211.66	4084903.08	5.43E-04	7.85E-03	5.79E-03	5.79E-03	3.23E-03	8.24E-05	1.20E-03	9.04E-04	9.04E-04	4.97E-04	4.47E-05	6.47E-04	4.02E-04	4.02E-04	1.99E-04
622	258187.33	4084904.08	5.44E-04	7.87E-03	5.80E-03	5.80E-03	3.23E-03	8.26E-05	1.20E-03	9.06E-04	9.06E-04	4.98E-04	4.48E-05	6.49E-04	4.03E-04	4.03E-04	1.99E-04
623	258163	4084905.08	5.44E-04	7.87E-03	5.80E-03	5.80E-03	3.23E-03	8.26E-05	1.20E-03	9.06E-04	9.06E-04	4.98E-04	4.49E-05	6.49E-04	4.03E-04	4.03E-04	1.99E-04
624	258138.67	4084906.08	5.44E-04	7.86E-03	5.80E-03	5.80E-03	3.23E-03	8.25E-05	1.20E-03	9.05E-04	9.05E-04	4.98E-04	4.48E-05	6.48E-04	4.03E-04	4.03E-04	1.99E-04
625	258114.33	4084907.08	5.43E-04	7.85E-03	5.79E-03	5.79E-03	3.23E-03	8.24E-05	1.20E-03	9.04E-04	9.04E-04	4.97E-04	4.48E-05	6.47E-04	4.02E-04	4.02E-04	1.99E-04
626	258090	4084908.08	5.42E-04	7.83E-03	5.77E-03	5.77E-03	3.22E-03	8.22E-05	1.19E-03	9.02E-04	9.02E-04	4.96E-04	4.46E-05	6.46E-04	4.01E-04	4.01E-04	1.99E-04

627	258065.67	4084909.08	5.40E-04	7.81E-03	5.75E-03	5.75E-03	3.21E-03	8.19E-05	1.19E-03	8.98E-04	8.98E-04	4.94E-04	4.45E-05	6.44E-04	4.00E-04	4.00E-04	1.98E-04
628	258041.34	4084910.09	5.38E-04	7.77E-03	5.73E-03	5.73E-03	3.19E-03	8.16E-05	1.18E-03	8.95E-04	8.95E-04	4.92E-04	4.43E-05	6.41E-04	3.98E-04	3.98E-04	1.97E-04
629	258017.01	4084911.09	5.35E-04	7.73E-03	5.70E-03	5.70E-03	3.18E-03	8.12E-05	1.18E-03	8.90E-04	8.90E-04	4.89E-04	4.41E-05	6.38E-04	3.96E-04	3.96E-04	1.96E-04
630	257992.68	4084912.09	5.31E-04	7.69E-03	5.67E-03	5.67E-03	3.16E-03	8.06E-05	1.17E-03	8.85E-04	8.85E-04	4.86E-04	4.38E-05	6.34E-04	3.94E-04	3.94E-04	1.95E-04
631	257968.34	4084913.09	5.27E-04	7.63E-03	5.62E-03	5.62E-03	3.13E-03	8.00E-05	1.16E-03	8.78E-04	8.78E-04	4.83E-04	4.35E-05	6.29E-04	3.91E-04	3.91E-04	1.93E-04
632	257944.01	4084914.09	5.23E-04	7.56E-03	5.57E-03	5.57E-03	3.11E-03	7.93E-05	1.15E-03	8.70E-04	8.70E-04	4.78E-04	4.31E-05	6.23E-04	3.87E-04	3.87E-04	1.92E-04
633	257919.68	4084915.09	5.17E-04	7.48E-03	5.51E-03	5.51E-03	3.07E-03	7.84E-05	1.14E-03	8.60E-04	8.60E-04	4.73E-04	4.26E-05	6.16E-04	3.83E-04	3.83E-04	1.89E-04
634	257895.35	4084916.09	5.10E-04	7.38E-03	5.44E-03	5.44E-03	3.03E-03	7.74E-05	1.12E-03	8.49E-04	8.49E-04	4.67E-04	4.20E-05	6.08E-04	3.78E-04	3.78E-04	1.87E-04
635	257871.02	4084917.09	5.02E-04	7.26E-03	5.35E-03	5.35E-03	2.98E-03	7.62E-05	1.11E-03	8.35E-04	8.35E-04	4.59E-04	4.14E-05	5.98E-04	3.72E-04	3.72E-04	1.84E-04
636	257846.68	4084918.09	4.92E-04	7.11E-03	5.24E-03	5.24E-03	2.92E-03	7.46E-05	1.08E-03	8.19E-04	8.19E-04	4.50E-04	4.05E-05	5.86E-04	3.64E-04	3.64E-04	1.80E-04
637	257822.35	4084919.09	4.80E-04	6.94E-03	5.12E-03	5.12E-03	2.85E-03	7.29E-05	1.06E-03	7.99E-04	7.99E-04	4.39E-04	3.96E-05	5.72E-04	3.55E-04	3.55E-04	1.76E-04
638	257798.02	4084920.09	4.66E-04	6.73E-03	4.96E-03	4.96E-03	2.77E-03	7.07E-05	1.03E-03	7.75E-04	7.75E-04	4.26E-04	3.84E-05	5.55E-04	3.45E-04	3.45E-04	1.71E-04
639	257773.69	4084921.09	4.48E-04	6.48E-03	4.78E-03	4.78E-03	2.66E-03	6.80E-05	9.88E-04	7.46E-04	7.46E-04	4.10E-04	3.70E-05	5.34E-04	3.32E-04	3.32E-04	1.64E-04
640	257749.36	4084922.09	4.28E-04	6.18E-03	4.56E-03	4.56E-03	2.54E-03	6.49E-05	9.42E-04	7.12E-04	7.12E-04	3.91E-04	3.52E-05	5.10E-04	3.17E-04	3.17E-04	1.57E-04
641	257725.03	4084923.09	4.02E-04	5.82E-03	4.29E-03	4.29E-03	2.39E-03	6.11E-05	8.87E-04	6.70E-04	6.70E-04	3.68E-04	3.32E-05	4.80E-04	2.98E-04	2.98E-04	1.47E-04
642	257700.69	4084924.09	3.72E-04	5.38E-03	3.96E-03	3.96E-03	2.21E-03	5.64E-05	8.19E-04	6.19E-04	6.19E-04	3.40E-04	3.06E-05	4.43E-04	2.75E-04	2.75E-04	1.36E-04
643	257676.36	4084925.09	3.34E-04	4.83E-03	3.56E-03	3.56E-03	1.99E-03	5.07E-05	7.36E-04	5.56E-04	5.56E-04	3.06E-04	2.75E-05	3.98E-04	2.47E-04	2.47E-04	1.23E-04
644	257652.03	4084926.09	2.88E-04	4.17E-03	3.07E-03	3.07E-03	1.71E-03	4.37E-05	6.35E-04	4.80E-04	4.80E-04	2.64E-04	2.38E-05	3.44E-04	2.13E-04	2.13E-04	1.06E-04
645	257627.7	4084927.09	2.32E-04	3.35E-03	2.47E-03	2.47E-03	1.38E-03	3.51E-05	5.10E-04	3.85E-04	3.85E-04	2.12E-04	1.91E-05	2.76E-04	1.72E-04	1.72E-04	8.49E-05
646	257603.37	4084928.09	1.66E-04	2.40E-03	1.77E-03	1.77E-03	9.84E-04	2.51E-05	3.65E-04	2.76E-04	2.76E-04	1.52E-04	1.37E-05	1.97E-04	1.23E-04	1.23E-04	6.07E-05
647	257579.03	4084929.09	1.04E-04	1.50E-03	1.10E-03	1.10E-03	6.15E-04	1.57E-05	2.28E-04	1.72E-04	1.72E-04	9.47E-05	8.53E-06	1.23E-04	7.67E-05	7.67E-05	3.79E-05
648	257554.7	4084930.09	7.00E-05	1.01E-03	7.46E-04	7.46E-04	4.16E-04	1.06E-05	1.54E-04	1.16E-04	1.16E-04	6.40E-05	5.77E-06	8.34E-05	5.18E-05	5.18E-05	2.57E-05
649	258374.7	4084878.79	3.63E-04	5.25E-03	3.87E-03	3.87E-03	2.16E-03	5.51E-05	8.00E-04	6.04E-04	6.04E-04	3.32E-04	2.99E-05	4.33E-04	2.69E-04	2.69E-04	1.33E-04
650	258332.29	4084873.1	3.56E-04	5.14E-03	3.79E-03	3.79E-03	2.11E-03	5.40E-05	7.84E-04	5.92E-04	5.92E-04	3.25E-04	2.93E-05	4.24E-04	2.63E-04	2.63E-04	1.30E-04
651	258307.96	4084874.1	3.62E-04	5.23E-03	3.86E-03	3.86E-03	2.15E-03	5.49E-05	7.97E-04	6.02E-04	6.02E-04	3.31E-04	2.98E-05	4.31E-04	2.68E-04	2.68E-04	1.33E-04
652	258283.63	4084875.1	3.66E-04	5.29E-03	3.90E-03	3.90E-03	2.17E-03	5.55E-05	8.06E-04	6.09E-04	6.09E-04	3.35E-04	3.01E-05	4.36E-04	2.71E-04	2.71E-04	1.34E-04
653	258259.3	4084876.1	3.69E-04	5.33E-03	3.93E-03	3.93E-03	2.19E-03	5.59E-05	8.12E-04	6.13E-04	6.13E-04	3.37E-04	3.04E-05	4.39E-04	2.73E-04	2.73E-04	1.35E-04
654	258234.97	4084877.1	3.70E-04	5.36E-03	3.95E-03	3.95E-03	2.20E-03	5.62E-05	8.16E-04	6.17E-04	6.17E-04	3.39E-04	3.05E-05	4.42E-04	2.74E-04	2.74E-04	1.36E-04
655	258210.64	4084878.1	3.72E-04	5.38E-03	3.96E-03	3.96E-03	2.21E-03	5.64E-05	8.19E-04	6.19E-04	6.19E-04	3.40E-04	3.06E-05	4.43E-04	2.75E-04	2.75E-04	1.36E-04
656	258186.3	4084879.1	3.72E-04	5.39E-03	3.97E-03	3.97E-03	2.21E-03	5.65E-05	8.20E-04	6.20E-04	6.20E-04	3.41E-04	3.07E-05	4.44E-04	2.76E-04	2.76E-04	1.36E-04
657	258161.97	4084880.1	3.72E-04	5.39E-03	3.97E-03	3.97E-03	2.21E-03	5.65E-05	8.21E-04	6.20E-04	6.20E-04	3.41E-04	3.07E-05	4.44E-04	2.76E-04	2.76E-04	1.37E-04
658	258137.64	4084881.1	3.72E-04	5.38E-03	3.97E-03	3.97E-03	2.21E-03	5.65E-05	8.20E-04	6.19E-04	6.19E-04	3.40E-04	3.07E-05	4.44E-04	2.76E-04	2.76E-04	1.36E-04
659	258113.31	4084882.11	3.71E-04	5.37E-03	3.96E-03	3.96E-03	2.21E-03	5.63E-05	8.18E-04	6.18E-04	6.18E-04	3.40E-04	3.06E-05	4.43E-04	2.75E-04	2.75E-04	1.36E-04
660	258088.98	4084883.11	3.70E-04	5.35E-03	3.94E-03	3.94E-03	2.20E-03	5.61E-05	8.15E-04	6.16E-04	6.16E-04	3.39E-04	3.05E-05	4.41E-04	2.74E-04	2.74E-04	1.36E-04
661	258064.64	4084884.11	3.68E-04	5.32E-03	3.92E-03	3.92E-03	2.19E-03	5.59E-05	8.11E-04	6.13E-04	6.13E-04	3.37E-04	3.03E-05	4.39E-04	2.73E-04	2.73E-04	1.35E-04
662	258040.31	4084885.11	3.66E-04	5.29E-03	3.90E-03	3.90E-03	2.17E-03	5.55E-05	8.06E-04	6.09E-04	6.09E-04	3.35E-04	3.01E-05	4.36E-04	2.71E-04	2.71E-04	1.34E-04
663	258015.98	4084886.11	3.63E-04	5.25E-03	3.87E-03	3.87E-03	2.16E-03	5.51E-05	7.99E-04	6.04E-04	6.04E-04	3.32E-04	2.99E-05	4.32E-04	2.69E-04	2.69E-04	1.33E-04
664	257991.65	4084887.11	3.59E-04	5.19E-03	3.83E-03	3.83E-03	2.13E-03	5.45E-05	7.91E-04	5.98E-04	5.98E-04	3.29E-04	2.96E-05	4.28E-04	2.66E-04	2.66E-04	1.32E-04
665	257967.32	4084888.11	3.55E-04	5.13E-03	3.78E-03	3.78E-03	2.11E-03	5.39E-05	7.82E-04	5.91E-04	5.91E-04	3.25E-04	2.92E-05	4.23E-04	2.63E-04	2.63E-04	1.30E-04
666	257942.99	4084889.11	3.50E-04	5.06E-03	3.73E-03	3.73E-03	2.08E-03	5.31E-05	7.71E-04	5.82E-04	5.82E-04	3.20E-04	2.88E-05	4.17E-04	2.59E-04	2.59E-04	1.28E-04
667	257918.65	4084890.11	3.44E-04	4.97E-03	3.66E-03	3.66E-03	2.04E-03	5.22E-05	7.57E-04	5.72E-04	5.72E-04	3.15E-04	2.83E-05	4.10E-04	2.55E-04	2.55E-04	1.26E-04
668	257894.32	4084891.11	3.37E-04	4.87E-03	3.59E-03	3.59E-03	2.00E-03	5.11E-05	7.42E-04	5.60E-04	5.60E-04	3.08E-04	2.78E-05	4.01E-04	2.49E-04	2.49E-04	1.23E-04
669	257869.99	4084892.11	3.28E-04	4.75E-03	3.50E-03	3.50E-03	1.95E-03	4.98E-05	7.24E-04	5.47E-04	5.47E-04	3.01E-04	2.71E-05	3.92E-04	2.43E-04	2.43E-04	1.20E-04
670	257845.66	4084893.11	3.19E-04	4.61E-03	3.40E-03	3.40E-03	1.89E-03	4.84E-05	7.02E-04	5.30E-04	5.30E-04	2.92E-04	2.63E-05	3.80E-04	2.36E-04	2.36E-04	1.17E-04
671	257821.33	4084894.11	3.07E-04	4.44E-03	3.27E-03	3.27E-03	1.83E-03	4.66E-05	6.77E-04	5.11E-04	5.11E-04	2.81E-04	2.53E-05	3.66E-04	2.27E-04	2.27E-04	1.13E-04
672	257796.99	4084895.11	2.94E-04	4.25E-03	3.13E-03	3.13E-03	1.74E-03	4.45E-05	6.47E-04	4.89E-04	4.89E-04	2.69E-04	2.42E-05	3.50E-04	2.17E-04	2.17E-04	1.08E-04
673	257772.66	4084896.11	2.78E-04	4.01E-03	2.96E-03	2.96E-03	1.65E-03	4.21E-05	6.12E-04	4.62E-04	4.62E-04	2.54E-04	2.29E-05	3.31E-04	2.06E-04	2.06E-04	1.02E-04
674	257748.33	4084897.11	2.59E-04	3.74E-03	2.76E-03	2.76E-03	1.54E-03	3.93E-05	5.70E-04	4.31E-04	4.31E-04	2.37E-04	2.13E-05	3.09E-04	1.92E-04	1.92E-04	9.49E-05
675	257724	4084898.11	2.37E-04	3.43E-03	2.53E-03	2.53E-03	1.41E-03	3.60E-05	5.22E-04	3.94E-04	3.94E-04	2.17E-04	1.95E-05	2.82E-04	1.75E-04	1.75E-04	8.69E-05
676	257699.67	4084899.11	2.12E-04	3.06E-03	2.26E-03	2.26E-03	1.26E-03	3.21E-05	4.66E-04	3.52E-04	3.52E-04	1.94E-04	1.74E-05	2.52E-04	1.57E-04	1.57E-04	7.76E-05
677	257675.34	4084900.11	1.83E-04	2.64E-03	1.95E-03	1.95E-03	1.09E-03	2.77E-05	4.02E-04	3.04E-04	3.04E-04	1.67E-04	1.51E-05	2.18E-04	1.35E-04	1.35E-04	6.70E-05
678	257651	4084901.11	1.50E-04	2.18E-03	1.60E-03	1.60E-03	8.94E-04	2.28E-05	3.31E-04	2.50E-04	2.50E-04	1.38E-04	1.24E-05	1.79E-04	1.11E-04	1.11E-04	5.51E-05
679	257626.67	4084902.11	1.17E-04	1.69E-03	1.24E-03	1.24E-03	6.92E-04	1.77E-05	2.57E-04	1.94E-04	1.94E-04	1.07E-04	9.60E-06	1.39E-04	8.63E-05	8.63E-05	4.27E-05
680	257602.34	4084903.11	8.51E-05	1.23E-03	9.07E-04	9.07E-04	5.06E-04	1.29E-05	1.87E-04	1.42E-04	1.42E-04	7.79E-05	7.01E-06	1.01E-04	6.30E-05	6.30E-05	3.12E-05
681	257578.01	4084904.11	6.19E-05	8.95E-04	6.60E-04	6.60E-04	3.68E-04	9.40E-06	1.36E-04	1.03E-04	1.03E-04	5.67E-05	5.10E-06	7.38E-05	4.58E-05	4.58E-05	2.27E-05
682	257553.68	4084905.11	4.82E-05	6.98E-04	5.14E-04	5.14E-04	2.87E-04	7.32E-06	1.06E-04	8.03E-05	8.03E-05	4.41E-05	3.98E-06	5.75E-05	3.57E-05	3.57E-05	1.77E-05
683	258373.67	4084853.81	2.79E-04	4.03E-03	2.97E-03	2.97E-03	1.66E-03	4.23E-05	6.14E-04	4.64E-04	4.64E-04	2.55E-04	2.30E-05	3.32E-04	2.06E-04	2.06E-04	1.02E-04
684	258417.76	4084884.76	3.15E-04	4.55E-03	3.36E-03	3.36E-03	1.87E-03	4.78E-05	6.94E-04	5.24E-04	5.24E-04	2.88E-04	2.60E-05	3.75E-04	2.33E-04	2.33E-04	1.15E-04
685	258331.27	4084848.12	2.71E-04	3.92E-03	2.89E-03	2.89E-03	1.61E-03	4.12E-05	5.98E-04	4.51E-04	4.51E-04	2.48E-04	2.24E-05	3.23E-04	2.01E-04	2.01E-04	9.94E-05
686	258306.94	4084849.12	2.75E-04	3.97E-03	2.93E-03	2.93E-03	1.63E-03	4.17E-05	6.05E-04	4.57E-04	4.57E-04	2.51E-04	2.26E-05	3.28E-04	2.03E-04	2.03E-04	1.01E-04
687	258282.6	4084850.12	2.77E-04	4.01E-03	2.95E-03	2.95E-03	1.65E-03	4.21E-05	6.11E-04	4.61E-04	4.61E-04	2.54E-04	2.28E-05	3.30E-04	2.05E-04	2.05E-04	1.02E-04
688	258258.27	4084851.12	2.79E-04	4.03E-03	2.97E-03	2.97E-03	1.66E-03	4.23E-05	6.14E-04	4.64E-04	4.64E-04	2.55E-04	2.30E-05	3.32E-04	2.06E-04	2.06E-04	1.02E-04
689	258233.94	4084852.12	2.80E-04	4.04E-03	2.98E-03	2.98E-03	1.66E-03	4.24E-05	6.16E-04	4.65E-04	4.65E-04	2.56E-04	2.31E-05	3.33E-04	2.07E-04	2.07E-04	1.03E-04
690	258209.61	4084853.13	2.80E-04	4.05E-03	2.99E-03	2.99E-03	1.66E-03	4.25E-05	6.17E-04	4.66E-04	4.66E-04	2.56E-04	2.31E-05	3.34E-04	2.07E-04	2.07E-04	1.03E-04
691	258185.28	4084854.13	2.80E-04	4.05E-03	2.99E-03	2.99E-03	1.66E-03	4.25E-05	6.17E-04	4.66E-04	4.66E-04	2.56E-04	2.31E-05	3.34E-04	2.07E-04	2.07E-04	1.03E-04
692	258160.94	4084855.13	2.80E-04	4.05E-03	2.98E-03	2.98E-03	1.66E-03	4.24E-05	6.16E-04	4.66E-04	4.66E-04	2.56E-04	2.31E-05	3.33E-04	2.07E-04	2.07E-04	1.03E-04
693	258136.61	4084856.13	2.79E-04	4.03E-03	2.97E-03	2.97E-03	1.66E-03	4.23E-05	6.14E-04	4.64E-04	4.64E-04	2.55E-04	2.30E-05	3.32E-04	2.06E-04	2.06E-04	1.02E-04
694	258112.28	4084857.13	2.78E-04	4.01E-03	2.96E-03	2.96E-03	1.65E-03	4.21E-05	6.12E-04	4.62E-04	4.62E-04	2.54E-04	2.29E-05	3.31E-04	2.06E-04	2.06E-04	1.02E-04
695	258087.95	4084858.13	2.76E-04	3.99E-03	2.94E-03	2.94E-03	1.64E-03	4.19E-05	6.08E-04	4.59E-04	4.59E-04	2.52E-04	2.27E-05	3.29E-04	2.04E-04	2.04E-04	1.01E-04
696	258063.62	4084859.13	2.74E-04	3.96E-03	2.92E-03	2.92E-03	1.63E-03	4.16E-05	6.03E-04	4.56E-04	4.56E-04	2.51E-04	2.26E-05	3.26E-04	2.03E-04	2.03E-04	1.00E-04
697	258039.29	4084860.13	2.71E-04	3.92E-03	2.89E-03	2.89E-03	1.61E-03	4.12E-05	5.98E-04	4.51E-04	4.51E-04	2.48E-04	2.24E-05	3.23E-04	2.01E-04	2.01E-04	9.94E-05
698	258014.95	4084861.13	2.68E-04	3.88E-03	2.86E-03	2.86E-03	1.59E-03	4.07E-05	5.91E-04	4.46E-04	4.46E-04	2.45E-04	2.21E-05	3.20E-04	1.99E-04	1.99E-04	9.83E-05
699	257990.62	4084862.13	2.64E-04	3.82E-03	2.82E-03	2.82E-03	1.57E-03	4.01E-05	5.82E-04	4.40E-04	4.40E-04	2.42E-04	2.18E-05	3.15E-04	1.96E-04	1.96E-04	9.69E-05
700	257966.29	4084863.13	2.60E-04	3.76E-03	2.77E-03	2.77E-03	1.54E-03	3.94E-05	5.73E-04	4.33E-04	4.33E-04	2.38E-04	2.14E-05	3.10E-04	1.92E-04	1.92E-04	9.53E-05
701	257941.96	4084864.13	2.55E-04	3.68E-03	2.72E-03	2.72E-03	1.51E-03	3.87E-05	5.61E-04	4.24E-04	4.24E-04	2.33E-04	2.10E-05	3.04E-04	1.89E-04	1.89E-04	9.34E-05
702	257917.63	4084865.13	2.49E-04	3.60E-03	2.65E-03	2.65E-03	1.48E-03	3.77E-05	5.48E-04	4.14E-04	4.14E-04	2.28E-04	2.05E-05	2.96E-04	1.84E-04	1.84E-04	9.11E-05
703	257893.29	4084866.13	2.42E-04	3.49E-03	2.58E-03	2.58E-03	1.44E-03	3.67E-05	5.32E-04	4.02E-04	4.02E-04	2.21E-04	1.99E-05	2.88E-04	1.79E-04	1.79E-04	8.85E-05
704	257868.96	4084867.13	2.33E-04	3.38E-03	2.49E-03	2.49E-03	1.39E-03	3.54E-05	5.14E-04	3.88E-04	3.88E-04	2.14E-04	1.92E-05	2.78E-04	1.73E-04	1.73E-04	8.55E-05
705	257844.63	4084868.13	2.24E-04	3.24E-03	2.39E-03	2.39E-03	1.33E-03	3.40E-05	4.93E-04	3.73E-04	3.73E-04	2.05E-04	1.85E-05	2.67E-04	1.66E-04	1.66E-04	8.21E-05
706	257820.3	4084869.13	2.13E-04	3.08E-03	2.27E-03	2.27E-03	1.27E-03	3.23E-05	4.69E-04	3.54E-04	3.54E-04	1.95E-04	1.76E-05	2.54E-04	1.58E-04	1.58E-04	7.81E-05
707	257795.97	4084870.13	2.00E-04	2.90E-03	2.14E-03	2.14E-03	1.19E-03	3.04E-05	4.42E-04	3.34E-04	3.34E-04	1.83E-04	1.65E-05	2.39E-04	1.48E-04	1.48E-04	7.35E-05
708	257771.64	4084871.13	1.86E-04	2.69E-03	1.98E-03	1.98E-03	1.11E-03	2.83E-05	4.10E-04	3.10E-04	3.10E-04	1.70E-04	1.53E-05	2.22E-04	1.38E-04	1.38E-04	6.82E-05
709	257747.3	4084872.13	1.70E-04	2.46E-03	1.81E-03	1.81E-03	1.01E-03	2.58E-05	3.75E-04	2.83E-04	2.83E-04	1.56E-04	1.40E-05	2.03E-04	1.26E-04	1.26E-04	6.23E-05
710	257722.97	4084873.13	1.52E-04	2.20E-03	1.62E-03	1.62E-03	9.04E-04	2.31E-05	3.35E-04	2.53E-04	2.53E-04	1.39E-04	1.25E-05	1.81E-04	1.13E-04	1.13E-04	5.57E-05
711	257698.64	4084874.13	1.32E-04	1.92E-03	1.41E-03	1.41E-03	7.87E-04	2.01E-05	2.92E-04	2.20E-04	2.20E-04	1.21E-04	1.09E-05	1.58E-04	9.81E-05	9.81E-05	4.85E-05
712	257674.31	4084875.13	1.12E-04	1.61E-03	1.19E-03	1.19E-03	6.63E-04	1.69E-05	2.46E-04	1.86E-04	1.86E-04	1.02E-04	9.19E-06	1.33E-04	8.26E-05	8.26E-05	4.09E-05
713	257649.98	4084876.13	9.05E-05	1.31E-03	9.65E-04	9.65E-04	5.38E-04	1.37E-05	1.99E-04	1.51E-04	1.51E-04	8.28E-05	7.46E-06	1.08E-04	6.70E-05	6.70E-05	3.32E-05
714	257625.64	4084877.13	7.10E-05	1.03E-03	7.57E-04	7.57E-04	4.22E-04	1.08E-05	1.57E-04	1.18E-04	1.18E-04	6.50E-05	5.86E-06	8.47E-05	5.26E-05	5.26E-05	2.60E-05
715	257601.31	4084878.13	5.52E-05	7.98E-04	5.88E-04	5.88E-04	3.28E-04	8.37E-06	1.22E-04	9.18E-05	9.18E-05	5.05E-05	4.55E-06	6.58E-05	4.08E-05	4.08E-05	2.02E-05
716	257576.98	4084879.13	4.39E-05	6.35E-04	4.68E-04	4.68E-04	2.61E-04	6.66E-06	9.67E-05	7.31E-05	7.31E-05	4.02E-05	3.62E-06	5.23E-05	3.25E-05	3.25E-05	1.61E-05
717	257552.65	4084880.13	3.64E-05	5.27E-04	3.88E-04	3.88E-04	2.17E-04	5.53E-06	8.03E-05	6.06E-05	6.06E-05	3.33E-05	3.00E-06	4.34E-05	2.70E-05	2.70E-05	1.34E-05
718	258372.65	4084828.84	2.23E-04	3.23E-03	2.38E-03	2.38E-03	1.33E-03	3.39E-05	4.92E-04	3.72E-04	3.72E-04	2.04E-04	1.84E-05	2.66E-04	1.65E-04	1.65E-04	8.19E-05
719	258408.79	4084842.22	2.36E-04	3.41E-03	2.51E-03	2.51E-03	1.40E-03	3.58E-05	5.19E-04	3.92E-04	3.92E-04	2.16E-04	1.94E-05	2.81E-04	1.75E-04	1.75E-04	8.64E-05
720	258434.81	4084866.47	2.54E-04	3.68E-03	2.71E-03	2.71E-03	1.51E-03	3.86E-05	5.61E-04	4.23E-04	4.23E-04	2.33E-04	2.10E-05	3.03E-04	1.88E-04	1.88E-04	9.33E-05
721	258330.24	4084823.14	2.17E-04	3.14E-03	2.31E-03	2.31E-03	1.29E-03	3.29E-05	4.78E-04	3.61E-04	3.61E-04	1.99E-04	1.79E-05	2.59E-04	1.61E-04	1.61E-04	7.95E-05
722	258305.91	4084824.15	2.19E-04	3.17E-03	2.34E-03	2.34E-03	1.30E-03	3.32E-05	4.83E-04	3.65E-04	3.65E-04	2.00E-04	1.81E-05	2.61E-04	1.62E-04	1.62E-04	8.03E-05
723	258281.58	4084825.15	2.20E-04	3.19E-03	2.35E-03	2.35E-03	1.31E-03	3.34E-05	4.85E-04	3.67E-04	3.67E-04	2.02E-04	1.82E-05	2.63E-04	1.63E-04	1.63E-04	8.08E-05
724	258257.25	4084826.15	2.21E-04	3.20E-03	2.36E-03	2.36E-03	1.31E-03	3.36E-05	4.87E-04	3.68E-04	3.68E-04	2.02E-04	1.82E-05	2.64E-04	1.64E-04	1.64E-04	8.10E-05
725	258232.91	4084827.15	2.21E-04	3.20E-03	2.36E-03	2.36E-03	1.32E-03	3.36E-05	4.88E-04	3.69E-04	3.69E-04	2.03E-04	1.83E-05	2.64E-04	1.64E-04	1.64E-04	8.12E-05
726	258208.58	4084828.15	2.21E-04	3.20E-03	2.36E-03	2.36E-03	1.32E-03	3.36E-05	4.88E-04	3.69E-04	3.69E-04	2.03E-04	1.82E-05	2.64E-04	1.64E-04	1.64E-04	8.12E-05
727	258184.25	4084829.15	2.21E-04	3.20E-03	2.36E-03	2.36E-03	1.31E-03	3.35E-05	4.87E-04	3.68E-04	3.68E-04	2.02E-04	1.82E-05	2.63E-04	1.64E-04	1.64E-04	8.10E-05
728	258159.92	4084830.15	2.20E-04	3.19E-03	2.35E-03	2.35E-03	1.31E-03	3.34E-05	4.85E-04	3.67E-04	3.67E-04	2.02E-04	1.82E-05	2.63E-04	1.63E-04	1.63E-04	8.07E-05
729	258135.59	4084831.15	2.19E-04	3.17E-03	2.34E-03	2.34E-03	1.30E-03	3.33E-05	4.83E-04	3.65E-04	3.65E-04	2.01E-04	1.81E-05	2.61E-04	1.62E-04	1.62E-04	8.03E-05
730	258111.25	4084832.15	2.18E-04	3.15E-03	2.32E-03	2.32E-03	1.29E-03	3.30E-05	4.79E-04	3.62E-04	3.62E-04	1.99E-04	1.79E-05	2.59E-04	1.61E-04	1.61E-04	7.98E-05
731	258086.92	4084833.15	2.16E-04	3.12E-03	2.30E-03	2.30E-03	1.28E-03	3.27E-05	4.75E-04	3.59E-04	3.59E-04	1.97E-04	1.78E-05	2.57E-04	1.60E-04	1.60E-04	7.91E-05

732	258062.59	4084834.15	2.13E-04	3.09E-03	2.27E-03	2.27E-03	1.27E-03	3.24E-05	4.70E-04	3.55E-04	3.55E-04	1.95E-04	1.76E-05	2.54E-04	1.58E-04	1.58E-04	7.82E-05
733	258038.26	4084835.15	2.10E-04	3.04E-03	2.24E-03	2.24E-03	1.25E-03	3.19E-05	4.64E-04	3.50E-04	3.50E-04	1.93E-04	1.73E-05	2.51E-04	1.56E-04	1.56E-04	7.72E-05
734	258013.93	4084836.15	2.07E-04	3.00E-03	2.21E-03	2.21E-03	1.23E-03	3.14E-05	4.56E-04	3.45E-04	3.45E-04	1.90E-04	1.71E-05	2.47E-04	1.53E-04	1.53E-04	7.59E-05
735	257989.6	4084837.15	2.03E-04	2.94E-03	2.17E-03	2.17E-03	1.21E-03	3.08E-05	4.48E-04	3.38E-04	3.38E-04	1.86E-04	1.68E-05	2.42E-04	1.50E-04	1.50E-04	7.45E-05
736	257965.26	4084838.15	1.99E-04	2.87E-03	2.12E-03	2.12E-03	1.18E-03	3.02E-05	4.38E-04	3.31E-04	3.31E-04	1.82E-04	1.64E-05	2.37E-04	1.47E-04	1.47E-04	7.28E-05
737	257940.93	4084839.15	1.93E-04	2.80E-03	2.06E-03	2.06E-03	1.15E-03	2.94E-05	4.26E-04	3.22E-04	3.22E-04	1.77E-04	1.59E-05	2.31E-04	1.43E-04	1.43E-04	7.09E-05
738	257916.6	4084840.15	1.87E-04	2.71E-03	2.00E-03	2.00E-03	1.11E-03	2.84E-05	4.13E-04	3.12E-04	3.12E-04	1.72E-04	1.54E-05	2.23E-04	1.39E-04	1.39E-04	6.87E-05
739	257892.27	4084841.15	1.81E-04	2.61E-03	1.92E-03	1.92E-03	1.07E-03	2.74E-05	3.98E-04	3.01E-04	3.01E-04	1.65E-04	1.49E-05	2.15E-04	1.34E-04	1.34E-04	6.62E-05
740	257867.94	4084842.15	1.73E-04	2.50E-03	1.84E-03	1.84E-03	1.03E-03	2.62E-05	3.81E-04	2.87E-04	2.87E-04	1.58E-04	1.42E-05	2.06E-04	1.28E-04	1.28E-04	6.33E-05
741	257843.6	4084843.15	1.64E-04	2.37E-03	1.75E-03	1.75E-03	9.74E-04	2.49E-05	3.61E-04	2.73E-04	2.73E-04	1.50E-04	1.35E-05	1.95E-04	1.21E-04	1.21E-04	6.01E-05
742	257819.27	4084844.15	1.54E-04	2.23E-03	1.64E-03	1.64E-03	9.15E-04	2.34E-05	3.39E-04	2.56E-04	2.56E-04	1.41E-04	1.27E-05	1.83E-04	1.14E-04	1.14E-04	5.64E-05
743	257794.94	4084845.15	1.43E-04	2.07E-03	1.52E-03	1.52E-03	8.49E-04	2.17E-05	3.15E-04	2.38E-04	2.38E-04	1.31E-04	1.18E-05	1.70E-04	1.06E-04	1.06E-04	5.23E-05
744	257770.61	4084846.15	1.31E-04	1.89E-03	1.39E-03	1.39E-03	7.76E-04	1.98E-05	2.88E-04	2.17E-04	2.17E-04	1.19E-04	1.08E-05	1.56E-04	9.67E-05	9.67E-05	4.79E-05
745	257746.28	4084847.15	1.17E-04	1.70E-03	1.25E-03	1.25E-03	6.97E-04	1.78E-05	2.58E-04	1.95E-04	1.95E-04	1.07E-04	9.66E-06	1.40E-04	8.68E-05	8.68E-05	4.30E-05
746	257721.95	4084848.15	1.03E-04	1.49E-03	1.10E-03	1.10E-03	6.13E-04	1.56E-05	2.27E-04	1.72E-04	1.72E-04	9.43E-05	8.50E-06	1.23E-04	7.63E-05	7.63E-05	3.78E-05
747	257697.61	4084849.15	8.85E-05	1.28E-03	9.43E-04	9.43E-04	5.26E-04	1.34E-05	1.95E-04	1.47E-04	1.47E-04	8.10E-05	7.29E-06	1.06E-04	6.55E-05	6.55E-05	3.24E-05
748	257673.28	4084850.15	7.41E-05	1.07E-03	7.89E-04	7.89E-04	4.40E-04	1.12E-05	1.63E-04	1.23E-04	1.23E-04	6.78E-05	6.10E-06	8.83E-05	5.48E-05	5.48E-05	2.71E-05
749	257648.95	4084851.15	6.06E-05	8.77E-04	6.47E-04	6.47E-04	3.60E-04	9.20E-06	1.34E-04	1.01E-04	1.01E-04	5.55E-05	5.00E-06	7.23E-05	4.49E-05	4.49E-05	2.22E-05
750	257624.62	4084852.15	4.92E-05	7.11E-04	5.24E-04	5.24E-04	2.92E-04	7.46E-06	1.08E-04	8.18E-05	8.18E-05	4.50E-05	4.05E-06	5.86E-05	3.64E-05	3.64E-05	1.80E-05
751	257600.29	4084853.15	4.02E-05	5.81E-04	4.29E-04	4.29E-04	2.39E-04	6.10E-06	8.86E-05	6.69E-05	6.69E-05	3.68E-05	3.31E-06	4.79E-05	2.98E-05	2.98E-05	1.47E-05
752	257575.95	4084854.15	3.37E-05	4.87E-04	3.59E-04	3.59E-04	2.00E-04	5.11E-06	7.42E-05	5.60E-05	5.60E-05	3.08E-05	2.77E-06	4.01E-05	2.49E-05	2.49E-05	1.23E-05
753	257551.62	4084855.15	2.90E-05	4.19E-04	3.09E-04	3.09E-04	1.72E-04	4.40E-06	6.38E-05	4.82E-05	4.82E-05	2.65E-05	2.39E-06	3.45E-05	2.15E-05	2.15E-05	1.06E-05
754	258374.21	4084780.22	1.57E-04	2.27E-03	1.67E-03	1.67E-03	9.31E-04	2.38E-05	3.45E-04	2.61E-04	2.61E-04	1.43E-04	1.29E-05	1.87E-04	1.16E-04	1.16E-04	5.74E-05
755	258395.89	4084788.25	1.63E-04	2.36E-03	1.74E-03	1.74E-03	9.70E-04	2.48E-05	3.60E-04	2.72E-04	2.72E-04	1.49E-04	1.35E-05	1.95E-04	1.21E-04	1.21E-04	5.98E-05
756	258417.58	4084796.27	1.68E-04	2.43E-03	1.79E-03	1.79E-03	1.00E-03	2.55E-05	3.71E-04	2.80E-04	2.80E-04	1.54E-04	1.39E-05	2.01E-04	1.25E-04	1.25E-04	6.17E-05
757	258439.27	4084804.3	1.71E-04	2.47E-03	1.82E-03	1.82E-03	1.02E-03	2.59E-05	3.76E-04	2.84E-04	2.84E-04	1.56E-04	1.41E-05	2.04E-04	1.27E-04	1.27E-04	6.26E-05
758	258470.49	4084833.4	1.83E-04	2.64E-03	1.95E-03	1.95E-03	1.09E-03	2.77E-05	4.03E-04	3.04E-04	3.04E-04	1.67E-04	1.51E-05	2.18E-04	1.35E-04	1.35E-04	6.70E-05
759	258480.02	4084854.47	1.91E-04	2.76E-03	2.04E-03	2.04E-03	1.14E-03	2.90E-05	4.21E-04	3.18E-04	3.18E-04	1.75E-04	1.58E-05	2.28E-04	1.42E-04	1.42E-04	7.01E-05
760	258489.55	4084875.54	1.93E-04	2.79E-03	2.06E-03	2.06E-03	1.15E-03	2.93E-05	4.25E-04	3.21E-04	3.21E-04	1.76E-04	1.59E-05	2.30E-04	1.43E-04	1.43E-04	7.07E-05
761	258499.08	4084896.61	1.88E-04	2.72E-03	2.00E-03	2.00E-03	1.12E-03	2.85E-05	4.14E-04	3.13E-04	3.13E-04	1.72E-04	1.55E-05	2.24E-04	1.39E-04	1.39E-04	6.89E-05
762	258352.52	4084772.19	1.49E-04	2.16E-03	1.59E-03	1.59E-03	8.88E-04	2.27E-05	3.29E-04	2.49E-04	2.49E-04	1.37E-04	1.23E-05	1.78E-04	1.11E-04	1.11E-04	5.48E-05
763	258328.19	4084773.19	1.51E-04	2.18E-03	1.60E-03	1.60E-03	8.95E-04	2.28E-05	3.32E-04	2.51E-04	2.51E-04	1.38E-04	1.24E-05	1.79E-04	1.11E-04	1.11E-04	5.52E-05
764	258303.85	4084774.19	1.51E-04	2.19E-03	1.61E-03	1.61E-03	8.98E-04	2.29E-05	3.33E-04	2.52E-04	2.52E-04	1.38E-04	1.25E-05	1.80E-04	1.12E-04	1.12E-04	5.54E-05
765	258279.52	4084775.19	1.51E-04	2.19E-03	1.61E-03	1.61E-03	8.99E-04	2.30E-05	3.33E-04	2.52E-04	2.52E-04	1.38E-04	1.25E-05	1.80E-04	1.12E-04	1.12E-04	5.55E-05
766	258255.19	4084776.19	1.51E-04	2.19E-03	1.61E-03	1.61E-03	8.98E-04	2.29E-05	3.33E-04	2.51E-04	2.51E-04	1.38E-04	1.25E-05	1.80E-04	1.12E-04	1.12E-04	5.54E-05
767	258230.86	4084777.19	1.51E-04	2.18E-03	1.61E-03	1.61E-03	8.95E-04	2.29E-05	3.32E-04	2.51E-04	2.51E-04	1.38E-04	1.24E-05	1.80E-04	1.12E-04	1.12E-04	5.52E-05
768	258206.53	4084778.19	1.50E-04	2.17E-03	1.60E-03	1.60E-03	8.90E-04	2.27E-05	3.30E-04	2.49E-04	2.49E-04	1.37E-04	1.23E-05	1.79E-04	1.11E-04	1.11E-04	5.49E-05
769	258182.2	4084779.19	1.49E-04	2.15E-03	1.59E-03	1.59E-03	8.84E-04	2.26E-05	3.28E-04	2.48E-04	2.48E-04	1.36E-04	1.23E-05	1.77E-04	1.10E-04	1.10E-04	5.45E-05
770	258157.86	4084780.19	1.47E-04	2.13E-03	1.57E-03	1.57E-03	8.76E-04	2.24E-05	3.25E-04	2.45E-04	2.45E-04	1.35E-04	1.22E-05	1.76E-04	1.09E-04	1.09E-04	5.40E-05
771	258133.53	4084781.19	1.46E-04	2.11E-03	1.55E-03	1.55E-03	8.67E-04	2.21E-05	3.21E-04	2.43E-04	2.43E-04	1.33E-04	1.20E-05	1.74E-04	1.08E-04	1.08E-04	5.34E-05
772	258109.2	4084782.19	1.44E-04	2.08E-03	1.53E-03	1.53E-03	8.55E-04	2.18E-05	3.17E-04	2.39E-04	2.39E-04	1.32E-04	1.19E-05	1.72E-04	1.07E-04	1.07E-04	5.27E-05
773	258084.87	4084783.19	1.42E-04	2.05E-03	1.51E-03	1.51E-03	8.42E-04	2.15E-05	3.12E-04	2.36E-04	2.36E-04	1.30E-04	1.17E-05	1.69E-04	1.05E-04	1.05E-04	5.19E-05
774	258060.54	4084784.19	1.39E-04	2.01E-03	1.48E-03	1.48E-03	8.26E-04	2.11E-05	3.06E-04	2.31E-04	2.31E-04	1.27E-04	1.15E-05	1.66E-04	1.03E-04	1.03E-04	5.09E-05
775	258036.2	4084785.19	1.36E-04	1.97E-03	1.45E-03	1.45E-03	8.08E-04	2.06E-05	2.99E-04	2.26E-04	2.26E-04	1.24E-04	1.12E-05	1.62E-04	1.01E-04	1.01E-04	4.98E-05
776	258011.87	4084786.19	1.32E-04	1.92E-03	1.41E-03	1.41E-03	7.87E-04	2.01E-05	2.92E-04	2.20E-04	2.20E-04	1.21E-04	1.09E-05	1.58E-04	9.81E-05	9.81E-05	4.86E-05
777	257987.54	4084787.19	1.29E-04	1.86E-03	1.37E-03	1.37E-03	7.64E-04	1.95E-05	2.83E-04	2.14E-04	2.14E-04	1.18E-04	1.06E-05	1.53E-04	9.52E-05	9.52E-05	4.71E-05
778	257963.21	4084788.19	1.24E-04	1.80E-03	1.32E-03	1.32E-03	7.38E-04	1.88E-05	2.74E-04	2.07E-04	2.07E-04	1.14E-04	1.02E-05	1.48E-04	9.19E-05	9.19E-05	4.55E-05
779	257938.88	4084789.19	1.19E-04	1.72E-03	1.27E-03	1.27E-03	7.08E-04	1.81E-05	2.63E-04	1.98E-04	1.98E-04	1.09E-04	9.83E-06	1.42E-04	8.83E-05	8.83E-05	4.37E-05
780	257914.55	4084790.19	1.14E-04	1.65E-03	1.21E-03	1.21E-03	6.76E-04	1.73E-05	2.51E-04	1.89E-04	1.89E-04	1.04E-04	9.38E-06	1.36E-04	8.42E-05	8.42E-05	4.17E-05
781	257890.21	4084791.19	1.08E-04	1.56E-03	1.15E-03	1.15E-03	6.40E-04	1.63E-05	2.37E-04	1.79E-04	1.79E-04	9.86E-05	8.88E-06	1.28E-04	7.98E-05	7.98E-05	3.95E-05
782	257865.88	4084792.19	1.01E-04	1.46E-03	1.08E-03	1.08E-03	6.01E-04	1.53E-05	2.23E-04	1.68E-04	1.68E-04	9.26E-05	8.34E-06	1.21E-04	7.49E-05	7.49E-05	3.71E-05
783	257841.55	4084793.19	9.40E-05	1.36E-03	1.00E-03	1.00E-03	5.59E-04	1.43E-05	2.07E-04	1.57E-04	1.57E-04	8.60E-05	7.75E-06	1.12E-04	6.96E-05	6.96E-05	3.45E-05
784	257817.22	4084794.19	8.64E-05	1.25E-03	9.21E-04	9.21E-04	5.14E-04	1.31E-05	1.90E-04	1.44E-04	1.44E-04	7.91E-05	7.12E-06	1.03E-04	6.40E-05	6.40E-05	3.17E-05
785	257792.89	4084795.19	7.84E-05	1.13E-03	8.36E-04	8.36E-04	4.66E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.18E-05	6.47E-06	9.35E-05	5.81E-05	5.81E-05	2.88E-05
786	257768.55	4084796.19	7.02E-05	1.02E-03	7.49E-04	7.49E-04	4.17E-04	1.07E-05	1.55E-04	1.17E-04	1.17E-04	6.43E-05	5.79E-06	8.37E-05	5.20E-05	5.20E-05	2.57E-05
787	257744.22	4084797.19	6.19E-05	8.96E-04	6.60E-04	6.60E-04	3.68E-04	9.40E-06	1.36E-04	1.03E-04	1.03E-04	5.67E-05	5.11E-06	7.38E-05	4.59E-05	4.59E-05	2.27E-05
788	257719.89	4084798.19	5.39E-05	7.79E-04	5.74E-04	5.74E-04	3.20E-04	8.18E-06	1.19E-04	8.97E-05	8.97E-05	4.93E-05	4.44E-06	6.42E-05	3.99E-05	3.99E-05	1.98E-05
789	257695.56	4084799.19	4.63E-05	6.70E-04	4.94E-04	4.94E-04	2.75E-04	7.03E-06	1.02E-04	7.71E-05	7.71E-05	4.24E-05	3.82E-06	5.52E-05	3.43E-05	3.43E-05	1.70E-05
790	257671.23	4084800.2	3.95E-05	5.72E-04	4.22E-04	4.22E-04	2.35E-04	6.00E-06	8.71E-05	6.58E-05	6.58E-05	3.62E-05	3.26E-06	4.71E-05	2.93E-05	2.93E-05	1.45E-05
791	257646.9	4084801.2	3.38E-05	4.88E-04	3.60E-04	3.60E-04	2.01E-04	5.12E-06	7.44E-05	5.62E-05	5.62E-05	3.09E-05	2.78E-06	4.02E-05	2.50E-05	2.50E-05	1.24E-05
792	257622.56	4084802.2	2.90E-05	4.20E-04	3.09E-04	3.09E-04	1.73E-04	4.41E-06	6.40E-05	4.83E-05	4.83E-05	2.66E-05	2.39E-06	3.46E-05	2.15E-05	2.15E-05	1.06E-05
793	257598.23	4084803.2	2.53E-05	3.66E-04	2.70E-04	2.70E-04	1.50E-04	3.84E-06	5.57E-05	4.21E-05	4.21E-05	2.31E-05	2.08E-06	3.01E-05	1.87E-05	1.87E-05	9.27E-06
794	257573.9	4084804.2	2.23E-05	3.23E-04	2.38E-04	2.38E-04	1.33E-04	3.39E-06	4.92E-05	3.72E-05	3.72E-05	2.04E-05	1.84E-06	2.66E-05	1.65E-05	1.65E-05	8.19E-06
795	257549.57	4084805.2	2.00E-05	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.04E-06	4.41E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.39E-05	1.48E-05	1.48E-05	7.34E-06
796	258371.12	4084729.88	1.16E-04	1.67E-03	1.23E-03	1.23E-03	6.87E-04	1.75E-05	2.55E-04	1.92E-04	1.92E-04	1.06E-04	9.52E-06	1.38E-04	8.56E-05	8.56E-05	4.24E-05
797	258412.43	4084745.17	1.25E-04	1.80E-03	1.33E-03	1.33E-03	7.41E-04	1.89E-05	2.75E-04	2.07E-04	2.07E-04	1.14E-04	1.03E-05	1.49E-04	9.23E-05	9.23E-05	4.57E-05
798	258453.74	4084760.46	1.31E-04	1.89E-03	1.39E-03	1.39E-03	7.77E-04	1.98E-05	2.88E-04	2.18E-04	2.18E-04	1.20E-04	1.08E-05	1.56E-04	9.68E-05	9.68E-05	4.79E-05
799	258504.13	4084795.83	1.39E-04	2.01E-03	1.48E-03	1.48E-03	8.24E-04	2.10E-05	3.05E-04	2.31E-04	2.31E-04	1.27E-04	1.14E-05	1.65E-04	1.03E-04	1.03E-04	5.08E-05
800	258522.28	4084835.96	1.47E-04	2.12E-03	1.57E-03	1.57E-03	8.73E-04	2.23E-05	3.24E-04	2.44E-04	2.44E-04	1.34E-04	1.21E-05	1.75E-04	1.09E-04	1.09E-04	5.38E-05
801	258540.44	4084876.09	1.42E-04	2.05E-03	1.51E-03	1.51E-03	8.43E-04	2.15E-05	3.12E-04	2.36E-04	2.36E-04	1.30E-04	1.17E-05	1.69E-04	1.05E-04	1.05E-04	5.20E-05
802	258326.13	4084723.23	1.11E-04	1.60E-03	1.18E-03	1.18E-03	6.58E-04	1.68E-05	2.44E-04	1.84E-04	1.84E-04	1.01E-04	9.13E-06	1.32E-04	8.20E-05	8.20E-05	4.06E-05
803	258301.8	4084724.23	1.11E-04	1.60E-03	1.18E-03	1.18E-03	6.57E-04	1.68E-05	2.44E-04	1.84E-04	1.84E-04	1.01E-04	9.11E-06	1.32E-04	8.19E-05	8.19E-05	4.05E-05
804	258277.47	4084725.23	1.10E-04	1.59E-03	1.17E-03	1.17E-03	6.54E-04	1.67E-05	2.43E-04	1.83E-04	1.83E-04	1.01E-04	9.07E-06	1.31E-04	8.15E-05	8.15E-05	4.04E-05
805	258253.14	4084726.23	1.09E-04	1.58E-03	1.17E-03	1.17E-03	6.50E-04	1.66E-05	2.41E-04	1.82E-04	1.82E-04	1.00E-04	9.02E-06	1.30E-04	8.10E-05	8.10E-05	4.01E-05
806	258228.81	4084727.23	1.08E-04	1.57E-03	1.16E-03	1.16E-03	6.44E-04	1.65E-05	2.39E-04	1.80E-04	1.80E-04	9.92E-05	8.94E-06	1.29E-04	8.03E-05	8.03E-05	3.97E-05
807	258204.47	4084728.23	1.07E-04	1.55E-03	1.14E-03	1.14E-03	6.37E-04	1.63E-05	2.36E-04	1.79E-04	1.79E-04	9.82E-05	8.84E-06	1.28E-04	7.94E-05	7.94E-05	3.93E-05
808	258180.14	4084729.23	1.06E-04	1.53E-03	1.13E-03	1.13E-03	6.29E-04	1.61E-05	2.33E-04	1.76E-04	1.76E-04	9.69E-05	8.73E-06	1.26E-04	7.84E-05	7.84E-05	3.88E-05
809	258155.81	4084730.23	1.04E-04	1.51E-03	1.11E-03	1.11E-03	6.20E-04	1.58E-05	2.30E-04	1.74E-04	1.74E-04	9.54E-05	8.59E-06	1.24E-04	7.72E-05	7.72E-05	3.82E-05
810	258131.48	4084731.23	1.02E-04	1.48E-03	1.09E-03	1.09E-03	6.08E-04	1.55E-05	2.26E-04	1.70E-04	1.70E-04	9.37E-05	8.44E-06	1.22E-04	7.58E-05	7.58E-05	3.75E-05
811	258107.15	4084732.23	1.00E-04	1.45E-03	1.07E-03	1.07E-03	5.96E-04	1.52E-05	2.21E-04	1.67E-04	1.67E-04	9.17E-05	8.26E-06	1.20E-04	7.42E-05	7.42E-05	3.67E-05
812	258082.81	4084733.23	9.79E-05	1.42E-03	1.04E-03	1.04E-03	5.82E-04	1.49E-05	2.16E-04	1.63E-04	1.63E-04	8.95E-05	8.07E-06	1.17E-04	7.25E-05	7.25E-05	3.59E-05
813	258058.48	4084734.23	9.52E-05	1.38E-03	1.01E-03	1.01E-03	5.66E-04	1.44E-05	2.10E-04	1.58E-04	1.58E-04	8.71E-05	7.85E-06	1.13E-04	7.05E-05	7.05E-05	3.49E-05
814	258034.15	4084735.23	9.22E-05	1.33E-03	9.83E-04	9.83E-04	5.48E-04	1.40E-05	2.03E-04	1.53E-04	1.53E-04	8.44E-05	7.60E-06	1.10E-04	6.83E-05	6.83E-05	3.38E-05
815	258009.82	4084736.23	8.89E-05	1.29E-03	9.48E-04	9.48E-04	5.29E-04	1.35E-05	1.96E-04	1.48E-04	1.48E-04	8.14E-05	7.33E-06	1.06E-04	6.59E-05	6.59E-05	3.26E-05
816	257985.49	4084737.23	8.53E-05	1.23E-03	9.10E-04	9.10E-04	5.07E-04	1.30E-05	1.88E-04	1.42E-04	1.42E-04	7.81E-05	7.03E-06	1.02E-04	6.32E-05	6.32E-05	3.13E-05
817	257961.16	4084738.23	8.14E-05	1.18E-03	8.68E-04	8.68E-04	4.84E-04	1.24E-05	1.79E-04	1.36E-04	1.36E-04	7.45E-05	6.71E-06	9.71E-05	6.03E-05	6.03E-05	2.98E-05
818	257936.82	4084739.23	7.72E-05	1.12E-03	8.23E-04	8.23E-04	4.59E-04	1.17E-05	1.70E-04	1.28E-04	1.28E-04	7.06E-05	6.36E-06	9.20E-05	5.71E-05	5.71E-05	2.83E-05
819	257912.49	4084740.23	7.26E-05	1.05E-03	7.74E-04	7.74E-04	4.32E-04	1.10E-05	1.60E-04	1.21E-04	1.21E-04	6.65E-05	5.99E-06	8.66E-05	5.38E-05	5.38E-05	2.66E-05
820	257888.16	4084741.23	6.78E-05	9.81E-04	7.23E-04	7.23E-04	4.03E-04	1.03E-05	1.49E-04	1.13E-04	1.13E-04	6.20E-05	5.59E-06	8.08E-05	5.02E-05	5.02E-05	2.49E-05
821	257863.83	4084742.23	6.27E-05	9.07E-04	6.69E-04	6.69E-04	3.73E-04	9.52E-06	1.38E-04	1.04E-04	1.04E-04	5.74E-05	5.17E-06	7.48E-05	4.65E-05	4.65E-05	2.30E-05
822	257839.5	4084743.24	5.75E-05	8.32E-04	6.13E-04	6.13E-04	3.42E-04	8.73E-06	1.27E-04	9.57E-05	9.57E-05	5.26E-05	4.74E-06	6.86E-05	4.26E-05	4.26E-05	2.11E-05
823	257815.16	4084744.24	5.22E-05	7.55E-04	5.57E-04	5.57E-04	3.10E-04	7.92E-06	1.15E-04	8.69E-05	8.69E-05	4.78E-05	4.30E-06	6.23E-05	3.87E-05	3.87E-05	1.91E-05
824	257790.83	4084745.24	4.69E-05	6.79E-04	5.00E-04	5.00E-04	2.79E-04	7.12E-06	1.03E-04	7.81E-05	7.81E-05	4.30E-05	3.87E-06	5.60E-05	3.48E-05	3.48E-05	1.72E-05
825	257766.5	4084746.24	4.18E-05	6.05E-04	4.46E-04	4.46E-04	2.48E-04	6.35E-06	9.21E-05	6.96E-05	6.96E-05	3.83E-05	3.45E-06	4.98E-05	3.10E-05	3.10E-05	1.53E-05
826	257742.17	4084747.24	3.70E-05	5.35E-04	3.94E-04	3.94E-04	2.20E-04	5.61E-06	8.14E-05	6.15E-05	6.15E-05	3.38E-05	3.05E-06	4.41E-05	2.74E-05	2.74E-05	1.35E-05
827	257717.84	4084748.24	3.25E-05	4.70E-04	3.47E-04	3.47E-04	1.93E-04	4.93E-06	7.16E-05	5.41E-05	5.41E-05	2.97E-05	2.68E-06	3.88E-05	2.41E-05	2.41E-05	1.19E-05
828	257693.51	4084749.24	2.85E-05	4.13E-04	3.04E-04	3.04E-04	1.70E-04	4.33E-06	6.29E-05	4.75E-05	4.75E-05	2.61E-05	2.35E-06	3.40E-05	2.11E-05	2.11E-05	1.05E-05
829	257669.17	4084750.24	2.51E-05	3.63E-04	2.68E-04	2.68E-04	1.49E-04	3.81E-06	5.53E-05	4.18E-05	4.18E-05	2.30E-05	2.07E-06	2.99E-05	1.86E-05	1.86E-05	9.21E-06
830	257644.84	4084751.24	2.22E-05	3.22E-04	2.37E-04	2.37E-04	1.32E-04	3.37E-06	4.90E-05	3.70E-05	3.70E-05	2.03E-05	1.83E-06	2.65E-05	1.65E-05	1.65E-05	8.15E-06
831	257620.51	4084752.24	1.98E-05	2.87E-04	2.11E-04	2.11E-04	1.18E-04	3.01E-06	4.37E-05	3.30E-05	3.30E-05	1.81E-05	1.63E-06	2.36E-05	1.47E-05	1.47E-05	7.27E-06
832	257596.18	4084753.24	1.79E-05	2.58E-04	1.90E-04	1.90E-04	1.06E-04	2.71E-06	3.94E-05	2.97E-05	2.97E-05	1.63E-05	1.47E-06	2.13E-05	1.32E-05	1.32E-05	6.55E-06
833	257571.85	4084754.24	1.62E-05	2.35E-04	1.73E-04	1.73E-04	9.65E-05	2.46E-06	3.58E-05	2.70E-05	2.70E-05	1.49E-05	1.34E-06	1.94E-05	1.20E-05	1.20E-05	5.95E-06
834	257547.51	4084755.24	1.49E-05	2.15E-04	1.59E-04	1.59E-04	8.84E-05	2.26E-06	3.28E-05	2.48E-05	2.48E-05	1.36E-05	1.23E-06	1.77E-05	1.10E-05	1.10E-05	5.45E-06
835	258371	4084680.64	8.87E-05	1.28E-03	9.45E-04	9.45E-04	5.27E-04	1.35E-05	1.95E-04	1.48E-04	1.48E-04	8.12E-05	7.31E-06	1.06E-04	6.57E-05	6.57E-05	3.25E-05
836	258393.59	4084689	9.28E-05	1.34E-03	9.89E-04	9.89E-04	5.51E-04	1.41E-05	2.04E-04	1.54E-04	1.54E-04	8.49E-05	7.65E-06	1.11E-04	6.87E-05	6.87E-05	3.40E-05

837	258416.18	4084697.36	9.66E-05	1.40E-03	1.03E-03	1.03E-03	5.74E-04	1.47E-05	2.13E-04	1.61E-04	1.61E-04	8.84E-05	7.96E-06	1.15E-04	7.15E-05	7.15E-05	3.54E-05
838	258438.77	4084705.73	1.00E-04	1.45E-03	1.07E-03	1.07E-03	5.94E-04	1.52E-05	2.20E-04	1.66E-04	1.66E-04	9.15E-05	8.24E-06	1.19E-04	7.41E-05	7.41E-05	3.67E-05
839	258461.37	4084714.09	1.03E-04	1.49E-03	1.10E-03	1.10E-03	6.11E-04	1.56E-05	2.26E-04	1.71E-04	1.71E-04	9.41E-05	8.47E-06	1.23E-04	7.61E-05	7.61E-05	3.77E-05
840	258483.96	4084722.46	1.05E-04	1.51E-03	1.12E-03	1.12E-03	6.22E-04	1.59E-05	2.31E-04	1.74E-04	1.74E-04	9.58E-05	8.63E-06	1.25E-04	7.75E-05	7.75E-05	3.84E-05
841	258506.55	4084730.82	1.05E-04	1.52E-03	1.12E-03	1.12E-03	6.26E-04	1.60E-05	2.32E-04	1.75E-04	1.75E-04	9.64E-05	8.68E-06	1.26E-04	7.80E-05	7.80E-05	3.86E-05
842	258539.07	4084761.13	1.11E-04	1.60E-03	1.18E-03	1.18E-03	6.57E-04	1.68E-05	2.44E-04	1.84E-04	1.84E-04	1.01E-04	9.11E-06	1.32E-04	8.18E-05	8.18E-05	4.05E-05
843	258549	4084783.08	1.15E-04	1.66E-03	1.22E-03	1.22E-03	6.82E-04	1.74E-05	2.53E-04	1.91E-04	1.91E-04	1.05E-04	9.45E-06	1.37E-04	8.49E-05	8.49E-05	4.20E-05
844	258558.93	4084805.03	1.17E-04	1.69E-03	1.24E-03	1.24E-03	6.93E-04	1.77E-05	2.57E-04	1.94E-04	1.94E-04	1.07E-04	9.62E-06	1.39E-04	8.64E-05	8.64E-05	4.28E-05
845	258568.86	4084826.98	1.16E-04	1.68E-03	1.24E-03	1.24E-03	6.91E-04	1.76E-05	2.56E-04	1.93E-04	1.93E-04	1.06E-04	9.58E-06	1.39E-04	8.61E-05	8.61E-05	4.26E-05
846	258578.79	4084848.92	1.13E-04	1.63E-03	1.20E-03	1.20E-03	6.71E-04	1.71E-05	2.49E-04	1.88E-04	1.88E-04	1.03E-04	9.31E-06	1.35E-04	8.36E-05	8.36E-05	4.14E-05
847	258588.71	4084870.87	1.07E-04	1.55E-03	1.14E-03	1.14E-03	6.37E-04	1.63E-05	2.36E-04	1.78E-04	1.78E-04	9.81E-05	8.83E-06	1.28E-04	7.94E-05	7.94E-05	3.93E-05
848	258598.64	4084892.82	9.95E-05	1.44E-03	1.06E-03	1.06E-03	5.91E-04	1.51E-05	2.19E-04	1.66E-04	1.66E-04	9.10E-05	8.20E-06	1.19E-04	7.37E-05	7.37E-05	3.65E-05
849	258348.41	4084672.27	8.44E-05	1.22E-03	9.00E-04	9.00E-04	5.02E-04	1.28E-05	1.86E-04	1.41E-04	1.41E-04	7.73E-05	6.96E-06	1.01E-04	6.25E-05	6.25E-05	3.10E-05
850	258324.08	4084673.27	8.41E-05	1.22E-03	8.96E-04	8.96E-04	5.00E-04	1.28E-05	1.85E-04	1.40E-04	1.40E-04	7.69E-05	6.93E-06	1.00E-04	6.23E-05	6.23E-05	3.08E-05
851	258299.75	4084674.27	8.35E-05	1.21E-03	8.90E-04	8.90E-04	4.96E-04	1.27E-05	1.84E-04	1.39E-04	1.39E-04	7.64E-05	6.88E-06	9.96E-05	6.18E-05	6.18E-05	3.06E-05
852	258275.42	4084675.27	8.27E-05	1.20E-03	8.82E-04	8.82E-04	4.92E-04	1.26E-05	1.82E-04	1.38E-04	1.38E-04	7.57E-05	6.82E-06	9.86E-05	6.13E-05	6.13E-05	3.03E-05
853	258251.08	4084676.27	8.17E-05	1.18E-03	8.71E-04	8.71E-04	4.86E-04	1.24E-05	1.80E-04	1.36E-04	1.36E-04	7.48E-05	6.74E-06	9.74E-05	6.05E-05	6.05E-05	3.00E-05
854	258226.75	4084677.27	8.05E-05	1.16E-03	8.58E-04	8.58E-04	4.79E-04	1.22E-05	1.77E-04	1.34E-04	1.34E-04	7.37E-05	6.64E-06	9.60E-05	5.96E-05	5.96E-05	2.95E-05
855	258202.42	4084678.27	7.92E-05	1.15E-03	8.44E-04	8.44E-04	4.71E-04	1.20E-05	1.74E-04	1.32E-04	1.32E-04	7.24E-05	6.53E-06	9.44E-05	5.86E-05	5.86E-05	2.90E-05
856	258178.09	4084679.27	7.76E-05	1.12E-03	8.28E-04	8.28E-04	4.61E-04	1.18E-05	1.71E-04	1.29E-04	1.29E-04	7.10E-05	6.40E-06	9.25E-05	5.75E-05	5.75E-05	2.85E-05
857	258153.76	4084680.27	7.59E-05	1.10E-03	8.09E-04	8.09E-04	4.51E-04	1.15E-05	1.67E-04	1.26E-04	1.26E-04	6.95E-05	6.26E-06	9.05E-05	5.62E-05	5.62E-05	2.78E-05
858	258129.42	4084681.27	7.40E-05	1.07E-03	7.89E-04	7.89E-04	4.40E-04	1.12E-05	1.63E-04	1.23E-04	1.23E-04	6.77E-05	6.10E-06	8.82E-05	5.48E-05	5.48E-05	2.71E-05
859	258105.09	4084682.27	7.19E-05	1.04E-03	7.66E-04	7.66E-04	4.27E-04	1.09E-05	1.58E-04	1.20E-04	1.20E-04	6.58E-05	5.92E-06	8.57E-05	5.32E-05	5.32E-05	2.63E-05
860	258080.76	4084683.27	6.96E-05	1.01E-03	7.42E-04	7.42E-04	4.13E-04	1.06E-05	1.53E-04	1.16E-04	1.16E-04	6.37E-05	5.73E-06	8.29E-05	5.15E-05	5.15E-05	2.55E-05
861	258056.43	4084684.27	6.70E-05	9.70E-04	7.15E-04	7.15E-04	3.98E-04	1.02E-05	1.48E-04	1.12E-04	1.12E-04	6.14E-05	5.53E-06	7.99E-05	4.97E-05	4.97E-05	2.46E-05
862	258032.1	4084685.27	6.43E-05	9.30E-04	6.86E-04	6.86E-04	3.82E-04	9.76E-06	1.42E-04	1.07E-04	1.07E-04	5.89E-05	5.30E-06	7.67E-05	4.76E-05	4.76E-05	2.36E-05
863	258007.77	4084686.28	6.14E-05	8.88E-04	6.55E-04	6.55E-04	3.65E-04	9.32E-06	1.35E-04	1.02E-04	1.02E-04	5.62E-05	5.06E-06	7.32E-05	4.55E-05	4.55E-05	2.25E-05
864	257983.43	4084687.28	5.83E-05	8.44E-04	6.22E-04	6.22E-04	3.47E-04	8.85E-06	1.29E-04	9.71E-05	9.71E-05	5.34E-05	4.81E-06	6.95E-05	4.32E-05	4.32E-05	2.14E-05
865	257959.1	4084688.28	5.51E-05	7.97E-04	5.87E-04	5.87E-04	3.27E-04	8.36E-06	1.21E-04	9.17E-05	9.17E-05	5.04E-05	4.54E-06	6.57E-05	4.08E-05	4.08E-05	2.02E-05
866	257934.77	4084689.28	5.17E-05	7.48E-04	5.51E-04	5.51E-04	3.07E-04	7.84E-06	1.14E-04	8.60E-05	8.60E-05	4.73E-05	4.26E-06	6.16E-05	3.83E-05	3.83E-05	1.89E-05
867	257910.44	4084690.28	4.81E-05	6.96E-04	5.13E-04	5.13E-04	2.86E-04	7.31E-06	1.06E-04	8.01E-05	8.01E-05	4.41E-05	3.97E-06	5.74E-05	3.57E-05	3.57E-05	1.76E-05
868	257886.11	4084691.28	4.45E-05	6.44E-04	4.75E-04	4.75E-04	2.65E-04	6.76E-06	9.81E-05	7.41E-05	7.41E-05	4.07E-05	3.67E-06	5.31E-05	3.30E-05	3.30E-05	1.63E-05
869	257861.77	4084692.28	4.09E-05	5.91E-04	4.36E-04	4.36E-04	2.43E-04	6.20E-06	9.01E-05	6.80E-05	6.80E-05	3.74E-05	3.37E-06	4.87E-05	3.03E-05	3.03E-05	1.50E-05
870	257837.44	4084693.28	3.73E-05	5.39E-04	3.97E-04	3.97E-04	2.21E-04	5.65E-06	8.21E-05	6.20E-05	6.20E-05	3.41E-05	3.07E-06	4.44E-05	2.76E-05	2.76E-05	1.37E-05
871	257813.11	4084694.28	3.37E-05	4.88E-04	3.60E-04	3.60E-04	2.01E-04	5.12E-06	7.43E-05	5.62E-05	5.62E-05	3.09E-05	2.78E-06	4.02E-05	2.50E-05	2.50E-05	1.24E-05
872	257788.78	4084695.28	3.04E-05	4.40E-04	3.24E-04	3.24E-04	1.81E-04	4.61E-06	6.70E-05	5.06E-05	5.06E-05	2.78E-05	2.51E-06	3.62E-05	2.25E-05	2.25E-05	1.11E-05
873	257764.45	4084696.28	2.73E-05	3.94E-04	2.91E-04	2.91E-04	1.62E-04	4.14E-06	6.01E-05	4.54E-05	4.54E-05	2.50E-05	2.25E-06	3.25E-05	2.02E-05	2.02E-05	1.00E-05
874	257740.12	4084697.28	2.44E-05	3.53E-04	2.60E-04	2.60E-04	1.45E-04	3.71E-06	5.38E-05	4.06E-05	4.06E-05	2.23E-05	2.01E-06	2.91E-05	1.81E-05	1.81E-05	8.95E-06
875	257715.78	4084698.28	2.19E-05	3.16E-04	2.33E-04	2.33E-04	1.30E-04	3.32E-06	4.82E-05	3.64E-05	3.64E-05	2.00E-05	1.80E-06	2.61E-05	1.62E-05	1.62E-05	8.02E-06
876	257691.45	4084699.28	1.96E-05	2.84E-04	2.09E-04	2.09E-04	1.17E-04	2.98E-06	4.33E-05	3.27E-05	3.27E-05	1.80E-05	1.62E-06	2.34E-05	1.45E-05	1.45E-05	7.20E-06
877	257667.12	4084700.28	1.77E-05	2.56E-04	1.89E-04	1.89E-04	1.05E-04	2.69E-06	3.90E-05	2.95E-05	2.95E-05	1.62E-05	1.46E-06	2.11E-05	1.31E-05	1.31E-05	6.49E-06
878	257642.79	4084701.28	1.61E-05	2.32E-04	1.71E-04	1.71E-04	9.55E-05	2.44E-06	3.54E-05	2.67E-05	2.67E-05	1.47E-05	1.32E-06	1.92E-05	1.19E-05	1.19E-05	5.89E-06
879	257618.46	4084702.28	1.47E-05	2.12E-04	1.56E-04	1.56E-04	8.72E-05	2.23E-06	3.23E-05	2.44E-05	2.44E-05	1.34E-05	1.21E-06	1.75E-05	1.09E-05	1.09E-05	5.38E-06
880	257594.12	4084703.28	1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.01E-05	2.05E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.61E-05	9.98E-06	9.98E-06	4.94E-06
881	257569.79	4084704.28	1.25E-05	1.80E-04	1.33E-04	1.33E-04	7.40E-05	1.89E-06	2.75E-05	2.07E-05	2.07E-05	1.14E-05	1.03E-06	1.49E-05	9.23E-06	9.23E-06	4.57E-06
882	257545.46	4084705.28	1.16E-05	1.68E-04	1.23E-04	1.23E-04	6.88E-05	1.76E-06	2.55E-05	1.93E-05	1.93E-05	1.06E-05	9.55E-07	1.38E-05	8.58E-06	8.58E-06	4.25E-06
883	258368.04	4084630.34	6.91E-05	9.99E-04	7.36E-04	7.36E-04	4.11E-04	1.05E-05	1.52E-04	1.15E-04	1.15E-04	6.32E-05	5.69E-06	8.24E-05	5.12E-05	5.12E-05	2.53E-05
884	258389.73	4084638.37	7.23E-05	1.05E-03	7.71E-04	7.71E-04	4.30E-04	1.10E-05	1.59E-04	1.20E-04	1.20E-04	6.62E-05	5.96E-06	8.62E-05	5.36E-05	5.36E-05	2.65E-05
885	258411.42	4084646.4	7.54E-05	1.09E-03	8.04E-04	8.04E-04	4.48E-04	1.14E-05	1.66E-04	1.26E-04	1.26E-04	6.90E-05	6.22E-06	8.99E-05	5.59E-05	5.59E-05	2.77E-05
886	258433.11	4084654.43	7.84E-05	1.13E-03	8.35E-04	8.35E-04	4.66E-04	1.19E-05	1.73E-04	1.30E-04	1.30E-04	7.17E-05	6.46E-06	9.34E-05	5.80E-05	5.80E-05	2.87E-05
887	258454.79	4084662.46	8.10E-05	1.17E-03	8.64E-04	8.64E-04	4.82E-04	1.23E-05	1.79E-04	1.35E-04	1.35E-04	7.42E-05	6.68E-06	9.66E-05	6.00E-05	6.00E-05	2.97E-05
888	258476.48	4084670.49	8.33E-05	1.21E-03	8.88E-04	8.88E-04	4.95E-04	1.26E-05	1.84E-04	1.39E-04	1.39E-04	7.62E-05	6.87E-06	9.93E-05	6.17E-05	6.17E-05	3.05E-05
889	258498.17	4084678.52	8.51E-05	1.23E-03	9.07E-04	9.07E-04	5.06E-04	1.29E-05	1.87E-04	1.42E-04	1.42E-04	7.79E-05	7.01E-06	1.01E-04	6.30E-05	6.30E-05	3.12E-05
890	258519.86	4084686.55	8.62E-05	1.25E-03	9.19E-04	9.19E-04	5.12E-04	1.31E-05	1.90E-04	1.43E-04	1.43E-04	7.89E-05	7.11E-06	1.03E-04	6.38E-05	6.38E-05	3.16E-05
891	258541.54	4084694.58	8.65E-05	1.25E-03	9.22E-04	9.22E-04	5.14E-04	1.31E-05	1.91E-04	1.44E-04	1.44E-04	7.92E-05	7.13E-06	1.03E-04	6.41E-05	6.41E-05	3.17E-05
892	258572.76	4084723.68	9.02E-05	1.30E-03	9.61E-04	9.61E-04	5.36E-04	1.37E-05	1.99E-04	1.50E-04	1.50E-04	8.25E-05	7.43E-06	1.07E-04	6.68E-05	6.68E-05	3.30E-05
893	258582.29	4084744.75	9.35E-05	1.35E-03	9.96E-04	9.96E-04	5.55E-04	1.42E-05	2.06E-04	1.56E-04	1.56E-04	8.55E-05	7.70E-06	1.11E-04	6.92E-05	6.92E-05	3.43E-05
894	258591.83	4084765.82	9.51E-05	1.38E-03	1.01E-03	1.01E-03	5.65E-04	1.44E-05	2.10E-04	1.58E-04	1.58E-04	8.70E-05	7.84E-06	1.13E-04	7.04E-05	7.04E-05	3.49E-05
895	258601.36	4084786.89	9.56E-05	1.38E-03	1.02E-03	1.02E-03	5.68E-04	1.45E-05	2.11E-04	1.59E-04	1.59E-04	8.75E-05	7.88E-06	1.14E-04	7.08E-05	7.08E-05	3.50E-05
896	258610.89	4084807.96	9.43E-05	1.36E-03	1.01E-03	1.01E-03	5.61E-04	1.43E-05	2.08E-04	1.57E-04	1.57E-04	8.63E-05	7.77E-06	1.12E-04	6.99E-05	6.99E-05	3.46E-05
897	258620.42	4084829.03	9.14E-05	1.32E-03	9.74E-04	9.74E-04	5.43E-04	1.39E-05	2.01E-04	1.52E-04	1.52E-04	8.36E-05	7.53E-06	1.09E-04	6.77E-05	6.77E-05	3.35E-05
898	258629.96	4084850.1	8.70E-05	1.26E-03	9.27E-04	9.27E-04	5.17E-04	1.32E-05	1.92E-04	1.45E-04	1.45E-04	7.96E-05	7.17E-06	1.04E-04	6.44E-05	6.44E-05	3.19E-05
899	258639.49	4084871.17	8.14E-05	1.18E-03	8.67E-04	8.67E-04	4.84E-04	1.23E-05	1.79E-04	1.35E-04	1.35E-04	7.44E-05	6.71E-06	9.70E-05	6.02E-05	6.02E-05	2.98E-05
900	258649.02	4084892.24	7.50E-05	1.08E-03	7.99E-04	7.99E-04	4.46E-04	1.14E-05	1.65E-04	1.25E-04	1.25E-04	6.86E-05	6.18E-06	8.94E-05	5.55E-05	5.55E-05	2.75E-05
901	258346.36	4084622.31	6.58E-05	9.51E-04	7.01E-04	7.01E-04	3.91E-04	9.98E-06	1.45E-04	1.09E-04	1.09E-04	6.02E-05	5.42E-06	7.84E-05	4.87E-05	4.87E-05	2.41E-05
902	258322.03	4084623.31	6.51E-05	9.42E-04	6.94E-04	6.94E-04	3.87E-04	9.88E-06	1.43E-04	1.08E-04	1.08E-04	5.96E-05	5.37E-06	7.76E-05	4.82E-05	4.82E-05	2.39E-05
903	258297.69	4084624.31	6.43E-05	9.30E-04	6.86E-04	6.86E-04	3.82E-04	9.76E-06	1.42E-04	1.07E-04	1.07E-04	5.89E-05	5.30E-06	7.67E-05	4.76E-05	4.76E-05	2.36E-05
904	258273.36	4084625.31	6.34E-05	9.17E-04	6.76E-04	6.76E-04	3.77E-04	9.62E-06	1.40E-04	1.06E-04	1.06E-04	5.80E-05	5.22E-06	7.56E-05	4.69E-05	4.69E-05	2.32E-05
905	258249.03	4084626.31	6.23E-05	9.00E-04	6.64E-04	6.64E-04	3.70E-04	9.45E-06	1.37E-04	1.04E-04	1.04E-04	5.70E-05	5.13E-06	7.42E-05	4.61E-05	4.61E-05	2.28E-05
906	258224.7	4084627.31	6.10E-05	8.83E-04	6.50E-04	6.50E-04	3.63E-04	9.26E-06	1.34E-04	1.02E-04	1.02E-04	5.58E-05	5.03E-06	7.27E-05	4.52E-05	4.52E-05	2.24E-05
907	258200.37	4084628.32	5.96E-05	8.62E-04	6.35E-04	6.35E-04	3.54E-04	9.05E-06	1.31E-04	9.92E-05	9.92E-05	5.46E-05	4.91E-06	7.11E-05	4.41E-05	4.41E-05	2.19E-05
908	258176.03	4084629.32	5.81E-05	8.40E-04	6.19E-04	6.19E-04	3.45E-04	8.81E-06	1.28E-04	9.66E-05	9.66E-05	5.31E-05	4.79E-06	6.92E-05	4.30E-05	4.30E-05	2.13E-05
909	258151.7	4084630.32	5.64E-05	8.15E-04	6.01E-04	6.01E-04	3.35E-04	8.55E-06	1.24E-04	9.38E-05	9.38E-05	5.16E-05	4.65E-06	6.72E-05	4.17E-05	4.17E-05	2.07E-05
910	258127.37	4084631.32	5.45E-05	7.89E-04	5.81E-04	5.81E-04	3.24E-04	8.28E-06	1.20E-04	9.08E-05	9.08E-05	4.99E-05	4.49E-06	6.50E-05	4.04E-05	4.04E-05	2.00E-05
911	258103.04	4084632.32	5.25E-05	7.60E-04	5.60E-04	5.60E-04	3.12E-04	7.97E-06	1.16E-04	8.74E-05	8.74E-05	4.81E-05	4.33E-06	6.26E-05	3.89E-05	3.89E-05	1.92E-05
912	258078.71	4084633.32	5.04E-05	7.29E-04	5.37E-04	5.37E-04	3.00E-04	7.65E-06	1.11E-04	8.39E-05	8.39E-05	4.61E-05	4.15E-06	6.01E-05	3.73E-05	3.73E-05	1.85E-05
913	258054.38	4084634.32	4.82E-05	6.97E-04	5.14E-04	5.14E-04	2.86E-04	7.31E-06	1.06E-04	8.02E-05	8.02E-05	4.41E-05	3.97E-06	5.74E-05	3.57E-05	3.57E-05	1.77E-05
914	258030.04	4084635.32	4.59E-05	6.63E-04	4.89E-04	4.89E-04	2.73E-04	6.96E-06	1.01E-04	7.63E-05	7.63E-05	4.20E-05	3.78E-06	5.47E-05	3.40E-05	3.40E-05	1.68E-05
915	258005.71	4084636.32	4.34E-05	6.28E-04	4.63E-04	4.63E-04	2.58E-04	6.59E-06	9.57E-05	7.23E-05	7.23E-05	3.98E-05	3.58E-06	5.18E-05	3.22E-05	3.22E-05	1.59E-05
916	257981.38	4084637.32	4.09E-05	5.92E-04	4.36E-04	4.36E-04	2.43E-04	6.21E-06	9.02E-05	6.81E-05	6.81E-05	3.74E-05	3.37E-06	4.88E-05	3.03E-05	3.03E-05	1.50E-05
917	257957.05	4084638.32	3.83E-05	5.54E-04	4.09E-04	4.09E-04	2.28E-04	5.82E-06	8.44E-05	6.38E-05	6.38E-05	3.51E-05	3.16E-06	4.57E-05	2.84E-05	2.84E-05	1.40E-05
918	257932.72	4084639.32	3.57E-05	5.16E-04	3.80E-04	3.80E-04	2.12E-04	5.42E-06	7.86E-05	5.94E-05	5.94E-05	3.27E-05	2.94E-06	4.26E-05	2.64E-05	2.64E-05	1.31E-05
919	257908.38	4084640.32	3.31E-05	4.78E-04	3.52E-04	3.52E-04	1.96E-04	5.02E-06	7.28E-05	5.50E-05	5.50E-05	3.03E-05	2.73E-06	3.94E-05	2.45E-05	2.45E-05	1.21E-05
920	257884.05	4084641.32	3.05E-05	4.41E-04	3.25E-04	3.25E-04	1.81E-04	4.62E-06	6.71E-05	5.07E-05	5.07E-05	2.79E-05	2.51E-06	3.63E-05	2.26E-05	2.26E-05	1.12E-05
921	257859.72	4084642.32	2.79E-05	4.04E-04	2.98E-04	2.98E-04	1.66E-04	4.24E-06	6.16E-05	4.65E-05	4.65E-05	2.56E-05	2.30E-06	3.33E-05	2.07E-05	2.07E-05	1.02E-05
922	257835.39	4084643.32	2.55E-05	3.69E-04	2.72E-04	2.72E-04	1.52E-04	3.87E-06	5.62E-05	4.25E-05	4.25E-05	2.33E-05	2.10E-06	3.04E-05	1.89E-05	1.89E-05	9.35E-06
923	257811.06	4084644.32	2.32E-05	3.36E-04	2.48E-04	2.48E-04	1.38E-04	3.53E-06	5.12E-05	3.87E-05	3.87E-05	2.13E-05	1.92E-06	2.77E-05	1.72E-05	1.72E-05	8.52E-06
924	257786.73	4084645.32	2.11E-05	3.06E-04	2.25E-04	2.25E-04	1.26E-04	3.21E-06	4.65E-05	3.52E-05	3.52E-05	1.93E-05	1.74E-06	2.52E-05	1.56E-05	1.56E-05	7.74E-06
925	257762.39	4084646.32	1.92E-05	2.78E-04	2.05E-04	2.05E-04	1.14E-04	2.91E-06	4.23E-05	3.19E-05	3.19E-05	1.76E-05	1.58E-06	2.29E-05	1.42E-05	1.42E-05	7.04E-06
926	257738.06	4084647.32	1.75E-05	2.52E-04	1.86E-04	1.86E-04	1.04E-04	2.65E-06	3.85E-05	2.91E-05	2.91E-05	1.60E-05	1.44E-06	2.08E-05	1.29E-05	1.29E-05	6.40E-06
927	257713.73	4084648.32	1.59E-05	2.30E-04	1.70E-04	1.70E-04	9.46E-05	2.41E-06	3.51E-05	2.65E-05	2.65E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.83E-06
928	257689.4	4084649.32	1.45E-05	2.10E-04	1.55E-04	1.55E-04	8.65E-05	2.21E-06	3.21E-05	2.42E-05	2.42E-05	1.33E-05	1.20E-06	1.73E-05	1.08E-05	1.08E-05	5.33E-06
929	257665.07	4084650.32	1.34E-05	1.93E-04	1.42E-04	1.42E-04	7.94E-05	2.03E-06	2.94E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.89E-06	9.89E-06	4.90E-06
930	257640.73	4084651.32	1.23E-05	1.78E-04	1.31E-04	1.31E-04	7.33E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.13E-06	9.13E-06	4.52E-06
931	257616.4	4084652.32	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.79E-05	1.73E-06	2.52E-05	1.90E-05	1.90E-05	1.05E-05	9.42E-07	1.36E-05	8.46E-06	8.46E-06	4.19E-06
932	257592.07	4084653.32	1.06E-05	1.54E-04	1.14E-04	1.14E-04	6.33E-05	1.62E-06	2.35E-05	1.77E-05	1.77E-05	9.74E-06	8.78E-07	1.27E-05	7.88E-06	7.88E-06	3.90E-06
933	257567.74	4084654.32	9.96E-06	1.44E-04	1.06E-04	1.06E-04	5.92E-05	1.51E-06	2.19E-05	1.66E-05	1.66E-05	9.11E-06	8.21E-07	1.19E-05	7.37E-06	7.37E-06	3.65E-06
934	257543.41	4084655.32	9.35E-06	1.35E-04	9.97E-05	9.97E-05	5.56E-05	1.42E-06	2.06E-05	1.56E-05	1.56E-05	8.55E-06	7.71E-07	1.11E-05	6.92E-06	6.92E-06	3.43E-06
935	258364.49	4084530.63	4.36E-05	6.31E-04	4.65E-04	4.65E-04	2.59E-04	6.62E-06	9.61E-05	7.26E-05	7.26E-05	3.99E-05	3.60E-06	5.20E-05	3.23E-05	3.23E-05	1.60E-05
936	258386.74	4084538.87	4.60E-05	6.66E-04	4.91E-04	4.91E-04	2.73E-04	6.98E-06	1.01E-04	7.66E-05	7.66E-05	4.21E-05	3.79E-06	5.49E-05	3.41E-05	3.41E-05	1.69E-05
937	258408.98	4084547.1	4.84E-05	7.00E-04	5.16E-04	5.16E-04	2.87E-04	7.34E-06	1.07E-04	8.05E-05	8.05E-05	4.43E-05	3.99E-06	5.77E-05	3.58E-05	3.58E-05	1.77E-05
938	258431.22	4084555.34	5.07E-05	7.33E-04	5.40E-04	5.40E-04	3.01E-04	7.69E-06	1.12E-04	8.43E-05	8.43E-05	4.64E-05	4.18E-06	6.04E-05	3.75E-05	3.75E-05	1.86E-05
939	258453.47	4084563.57	5.29E-05	7.65E-04	5.64E-04	5.64E-04	3.14E-04	8.02E-06	1.16E-04	8.80E-05	8.80E-05	4.84E-05	4.36E-06	6.30E-05	3.92E-05	3.92E-05	1.94E-05
940	258475.71	4084571.81	5.49E-05	7.95E-04	5.86E-04	5.86E-04	3.27E-04	8.34E-06	1.21E-04	9.15E-05	9.15E-05	5.03E-05	4.53E-06	6.55E-05	4.07E-05	4.07E-05	2.01E-05
941	258497.95	4084580.04	5.68E-05	8.22E-04	6.06E-04	6.06E-04	3.38E-04	8.63E-06	1.25E-04	9.46E-05	9.46E-05	5.20E-05	4.69E-06	6.78E-05	4.21E-05	4.21E-05	2.08E-05

942	258520.2	4084588.28	5.85E-05	8.46E-04	6.24E-04	6.24E-04	3.48E-04	8.88E-06	1.29E-04	9.74E-05	9.74E-05	5.36E-05	4.82E-06	6.98E-05	4.33E-05	4.33E-05	2.15E-05
943	258542.44	4084596.52	5.99E-05	8.67E-04	6.39E-04	6.39E-04	3.56E-04	9.09E-06	1.32E-04	9.97E-05	9.97E-05	5.48E-05	4.94E-06	7.14E-05	4.44E-05	4.44E-05	2.20E-05
944	258564.68	4084604.75	6.10E-05	8.82E-04	6.50E-04	6.50E-04	3.62E-04	9.25E-06	1.34E-04	1.01E-04	1.01E-04	5.58E-05	5.03E-06	7.27E-05	4.52E-05	4.52E-05	2.24E-05
945	258586.93	4084612.99	6.16E-05	8.91E-04	6.57E-04	6.57E-04	3.66E-04	9.35E-06	1.36E-04	1.03E-04	1.03E-04	5.64E-05	5.08E-06	7.35E-05	4.56E-05	4.56E-05	2.26E-05
946	258609.17	4084621.22	6.18E-05	8.94E-04	6.59E-04	6.59E-04	3.67E-04	9.38E-06	1.36E-04	1.03E-04	1.03E-04	5.65E-05	5.09E-06	7.37E-05	4.58E-05	4.58E-05	2.26E-05
947	258641.19	4084651.07	6.41E-05	9.27E-04	6.83E-04	6.83E-04	3.81E-04	9.72E-06	1.41E-04	1.07E-04	1.07E-04	5.86E-05	5.28E-06	7.64E-05	4.74E-05	4.74E-05	2.35E-05
948	258650.97	4084672.68	6.62E-05	9.57E-04	7.06E-04	7.06E-04	3.93E-04	1.00E-05	1.46E-04	1.10E-04	1.10E-04	6.06E-05	5.46E-06	7.89E-05	4.90E-05	4.90E-05	2.43E-05
949	258660.74	4084694.29	6.76E-05	9.77E-04	7.20E-04	7.20E-04	4.02E-04	1.03E-05	1.49E-04	1.12E-04	1.12E-04	6.18E-05	5.57E-06	8.05E-05	5.00E-05	5.00E-05	2.48E-05
950	258670.52	4084715.9	6.81E-05	9.85E-04	7.26E-04	7.26E-04	4.05E-04	1.03E-05	1.50E-04	1.13E-04	1.13E-04	6.23E-05	5.61E-06	8.12E-05	5.04E-05	5.04E-05	2.50E-05
951	258680.3	4084737.51	6.79E-05	9.82E-04	7.24E-04	7.24E-04	4.04E-04	1.03E-05	1.50E-04	1.13E-04	1.13E-04	6.21E-05	5.60E-06	8.10E-05	5.03E-05	5.03E-05	2.49E-05
952	258690.07	4084759.12	6.68E-05	9.66E-04	7.12E-04	7.12E-04	3.97E-04	1.01E-05	1.47E-04	1.11E-04	1.11E-04	6.11E-05	5.51E-06	7.96E-05	4.95E-05	4.95E-05	2.45E-05
953	258699.85	4084780.73	6.48E-05	9.37E-04	6.91E-04	6.91E-04	3.85E-04	9.83E-06	1.43E-04	1.08E-04	1.08E-04	5.93E-05	5.34E-06	7.72E-05	4.80E-05	4.80E-05	2.38E-05
954	258709.63	4084802.34	6.20E-05	8.97E-04	6.61E-04	6.61E-04	3.69E-04	9.41E-06	1.37E-04	1.03E-04	1.03E-04	5.67E-05	5.11E-06	7.39E-05	4.59E-05	4.59E-05	2.27E-05
955	258719.4	4084823.95	5.86E-05	8.47E-04	6.25E-04	6.25E-04	3.48E-04	8.89E-06	1.29E-04	9.75E-05	9.75E-05	5.36E-05	4.83E-06	6.99E-05	4.34E-05	4.34E-05	2.15E-05
956	258729.18	4084845.56	5.47E-05	7.92E-04	5.83E-04	5.83E-04	3.25E-04	8.31E-06	1.21E-04	9.11E-05	9.11E-05	5.01E-05	4.51E-06	6.52E-05	4.05E-05	4.05E-05	2.01E-05
957	258738.96	4084867.17	5.06E-05	7.32E-04	5.40E-04	5.40E-04	3.01E-04	7.68E-06	1.12E-04	8.43E-05	8.43E-05	4.63E-05	4.17E-06	6.03E-05	3.75E-05	3.75E-05	1.86E-05
958	258748.73	4084888.78	4.65E-05	6.72E-04	4.95E-04	4.95E-04	2.76E-04	7.05E-06	1.02E-04	7.73E-05	7.73E-05	4.25E-05	3.83E-06	5.54E-05	3.44E-05	3.44E-05	1.70E-05
959	258342.25	4084522.4	4.12E-05	5.97E-04	4.40E-04	4.40E-04	2.45E-04	6.26E-06	9.09E-05	6.86E-05	6.86E-05	3.77E-05	3.40E-06	4.92E-05	3.05E-05	3.05E-05	1.51E-05
960	258317.92	4084523.4	4.04E-05	5.84E-04	4.31E-04	4.31E-04	2.40E-04	6.13E-06	8.90E-05	6.73E-05	6.73E-05	3.70E-05	3.33E-06	4.82E-05	2.99E-05	2.99E-05	1.48E-05
961	258293.59	4084524.4	3.95E-05	5.71E-04	4.21E-04	4.21E-04	2.35E-04	5.99E-06	8.70E-05	6.57E-05	6.57E-05	3.61E-05	3.25E-06	4.71E-05	2.92E-05	2.92E-05	1.45E-05
962	258269.25	4084525.4	3.85E-05	5.56E-04	4.10E-04	4.10E-04	2.29E-04	5.84E-06	8.47E-05	6.40E-05	6.40E-05	3.52E-05	3.17E-06	4.58E-05	2.85E-05	2.85E-05	1.41E-05
963	258244.92	4084526.4	3.73E-05	5.40E-04	3.98E-04	3.98E-04	2.22E-04	5.67E-06	8.23E-05	6.22E-05	6.22E-05	3.42E-05	3.08E-06	4.45E-05	2.77E-05	2.77E-05	1.37E-05
964	258220.59	4084527.4	3.61E-05	5.23E-04	3.85E-04	3.85E-04	2.15E-04	5.49E-06	7.97E-05	6.02E-05	6.02E-05	3.31E-05	2.98E-06	4.31E-05	2.68E-05	2.68E-05	1.33E-05
965	258196.26	4084528.4	3.49E-05	5.04E-04	3.72E-04	3.72E-04	2.07E-04	5.29E-06	7.69E-05	5.81E-05	5.81E-05	3.19E-05	2.88E-06	4.16E-05	2.58E-05	2.58E-05	1.28E-05
966	258171.93	4084529.4	3.35E-05	4.85E-04	3.58E-04	3.58E-04	1.99E-04	5.09E-06	7.39E-05	5.58E-05	5.58E-05	3.07E-05	2.77E-06	4.00E-05	2.48E-05	2.48E-05	1.23E-05
967	258147.59	4084530.4	3.22E-05	4.65E-04	3.43E-04	3.43E-04	1.91E-04	4.88E-06	7.08E-05	5.35E-05	5.35E-05	2.94E-05	2.65E-06	3.83E-05	2.38E-05	2.38E-05	1.18E-05
968	258123.26	4084531.4	3.07E-05	4.44E-04	3.27E-04	3.27E-04	1.83E-04	4.66E-06	6.77E-05	5.11E-05	5.11E-05	2.81E-05	2.53E-06	3.66E-05	2.27E-05	2.27E-05	1.13E-05
969	258098.93	4084532.4	2.92E-05	4.23E-04	3.12E-04	3.12E-04	1.74E-04	4.44E-06	6.44E-05	4.87E-05	4.87E-05	2.68E-05	2.41E-06	3.49E-05	2.17E-05	2.17E-05	1.07E-05
970	258074.6	4084533.4	2.77E-05	4.01E-04	2.96E-04	2.96E-04	1.65E-04	4.21E-06	6.11E-05	4.61E-05	4.61E-05	2.54E-05	2.29E-06	3.31E-05	2.05E-05	2.05E-05	1.02E-05
971	258050.27	4084534.4	2.62E-05	3.79E-04	2.79E-04	2.79E-04	1.56E-04	3.98E-06	5.77E-05	4.36E-05	4.36E-05	2.40E-05	2.16E-06	3.12E-05	1.94E-05	1.94E-05	9.60E-06
972	258025.94	4084535.4	2.47E-05	3.57E-04	2.63E-04	2.63E-04	1.47E-04	3.74E-06	5.43E-05	4.10E-05	4.10E-05	2.26E-05	2.03E-06	2.94E-05	1.83E-05	1.83E-05	9.04E-06
973	258001.6	4084536.4	2.31E-05	3.35E-04	2.47E-04	2.47E-04	1.37E-04	3.51E-06	5.10E-05	3.85E-05	3.85E-05	2.12E-05	1.91E-06	2.76E-05	1.71E-05	1.71E-05	8.48E-06
974	257977.27	4084537.4	2.16E-05	3.13E-04	2.30E-04	2.30E-04	1.28E-04	3.28E-06	4.76E-05	3.60E-05	3.60E-05	1.98E-05	1.78E-06	2.58E-05	1.60E-05	1.60E-05	7.92E-06
975	257952.94	4084538.4	2.01E-05	2.91E-04	2.15E-04	2.15E-04	1.20E-04	3.06E-06	4.44E-05	3.35E-05	3.35E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.38E-06
976	257928.61	4084539.4	1.87E-05	2.71E-04	2.00E-04	2.00E-04	1.11E-04	2.84E-06	4.12E-05	3.12E-05	3.12E-05	1.71E-05	1.54E-06	2.23E-05	1.39E-05	1.39E-05	6.86E-06
977	257904.28	4084540.4	1.74E-05	2.51E-04	1.85E-04	1.85E-04	1.03E-04	2.64E-06	3.83E-05	2.89E-05	2.89E-05	1.59E-05	1.43E-06	2.07E-05	1.29E-05	1.29E-05	6.37E-06
978	257879.94	4084541.4	1.61E-05	2.33E-04	1.72E-04	1.72E-04	9.56E-05	2.44E-06	3.54E-05	2.68E-05	2.68E-05	1.47E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.90E-06
979	257855.61	4084542.4	1.49E-05	2.15E-04	1.59E-04	1.59E-04	8.86E-05	2.26E-06	3.28E-05	2.48E-05	2.48E-05	1.36E-05	1.23E-06	1.78E-05	1.10E-05	1.10E-05	5.46E-06
980	257831.28	4084543.4	1.38E-05	2.00E-04	1.47E-04	1.47E-04	8.20E-05	2.10E-06	3.04E-05	2.30E-05	2.30E-05	1.26E-05	1.14E-06	1.65E-05	1.02E-05	1.02E-05	5.06E-06
981	257806.95	4084544.4	1.28E-05	1.85E-04	1.36E-04	1.36E-04	7.61E-05	1.94E-06	2.82E-05	2.13E-05	2.13E-05	1.17E-05	1.06E-06	1.53E-05	9.48E-06	9.48E-06	4.69E-06
982	257782.62	4084545.4	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.07E-05	1.81E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.80E-07	1.42E-05	8.81E-06	8.81E-06	4.36E-06
983	257758.29	4084546.4	1.11E-05	1.60E-04	1.18E-04	1.18E-04	6.58E-05	1.68E-06	2.44E-05	1.84E-05	1.84E-05	1.01E-05	9.13E-07	1.32E-05	8.20E-06	8.20E-06	4.06E-06
984	257733.95	4084547.41	1.03E-05	1.50E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.46E-06	8.52E-07	1.23E-05	7.66E-06	7.66E-06	3.79E-06
985	257709.62	4084548.41	9.68E-06	1.40E-04	1.03E-04	1.03E-04	5.75E-05	1.47E-06	2.13E-05	1.61E-05	1.61E-05	8.86E-06	7.98E-07	1.15E-05	7.17E-06	7.17E-06	3.55E-06
986	257685.29	4084549.41	9.09E-06	1.31E-04	9.69E-05	9.69E-05	5.40E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.32E-06	7.49E-07	1.08E-05	6.73E-06	6.73E-06	3.33E-06
987	257660.96	4084550.41	8.56E-06	1.24E-04	9.12E-05	9.12E-05	5.09E-05	1.30E-06	1.89E-05	1.42E-05	1.42E-05	7.83E-06	7.06E-07	1.02E-05	6.34E-06	6.34E-06	3.14E-06
988	257636.63	4084551.41	8.08E-06	1.17E-04	8.62E-05	8.62E-05	4.80E-05	1.23E-06	1.78E-05	1.35E-05	1.35E-05	7.40E-06	6.66E-07	9.64E-06	5.99E-06	5.99E-06	2.96E-06
989	257612.29	4084552.41	7.66E-06	1.11E-04	8.16E-05	8.16E-05	4.55E-05	1.16E-06	1.69E-05	1.27E-05	1.27E-05	7.01E-06	6.31E-07	9.13E-06	5.67E-06	5.67E-06	2.81E-06
990	257587.96	4084553.41	7.27E-06	1.05E-04	7.75E-05	7.75E-05	4.32E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.65E-06	5.99E-07	8.66E-06	5.38E-06	5.38E-06	2.66E-06
991	257563.63	4084554.41	6.91E-06	1.00E-04	7.37E-05	7.37E-05	4.11E-05	1.05E-06	1.52E-05	1.15E-05	1.15E-05	6.32E-06	5.70E-07	8.24E-06	5.12E-06	5.12E-06	2.53E-06
992	257539.3	4084555.41	6.58E-06	9.52E-05	7.02E-05	7.02E-05	3.91E-05	9.99E-07	1.45E-05	1.10E-05	1.10E-05	6.02E-06	5.43E-07	7.85E-06	4.88E-06	4.88E-06	2.41E-06
993	258360.73	4084430.85	2.83E-05	4.10E-04	3.02E-04	3.02E-04	1.68E-04	4.30E-06	6.24E-05	4.71E-05	4.71E-05	2.59E-05	2.33E-06	3.38E-05	2.10E-05	2.10E-05	1.04E-05
994	258383.32	4084439.21	3.01E-05	4.36E-04	3.21E-04	3.21E-04	1.79E-04	4.57E-06	6.64E-05	5.01E-05	5.01E-05	2.76E-05	2.48E-06	3.59E-05	2.23E-05	2.23E-05	1.10E-05
995	258405.91	4084447.57	3.19E-05	4.61E-04	3.40E-04	3.40E-04	1.90E-04	4.84E-06	7.03E-05	5.31E-05	5.31E-05	2.92E-05	2.63E-06	3.80E-05	2.36E-05	2.36E-05	1.17E-05
996	258428.51	4084455.94	3.37E-05	4.87E-04	3.59E-04	3.59E-04	2.00E-04	5.11E-06	7.42E-05	5.61E-05	5.61E-05	3.08E-05	2.78E-06	4.02E-05	2.49E-05	2.49E-05	1.23E-05
997	258451.1	4084464.3	3.54E-05	5.12E-04	3.78E-04	3.78E-04	2.10E-04	5.37E-06	7.80E-05	5.89E-05	5.89E-05	3.24E-05	2.92E-06	4.22E-05	2.62E-05	2.62E-05	1.30E-05
998	258473.69	4084472.67	3.71E-05	5.37E-04	3.96E-04	3.96E-04	2.21E-04	5.63E-06	8.18E-05	6.18E-05	6.18E-05	3.40E-05	3.06E-06	4.43E-05	2.75E-05	2.75E-05	1.36E-05
999	258496.28	4084481.03	3.88E-05	5.61E-04	4.13E-04	4.13E-04	2.30E-04	5.88E-06	8.54E-05	6.45E-05	6.45E-05	3.55E-05	3.20E-06	4.62E-05	2.87E-05	2.87E-05	1.42E-05
1000	258518.87	4084489.39	4.03E-05	5.83E-04	4.30E-04	4.30E-04	2.40E-04	6.12E-06	8.89E-05	6.71E-05	6.71E-05	3.69E-05	3.33E-06	4.81E-05	2.99E-05	2.99E-05	1.48E-05
1001	258541.46	4084497.76	4.18E-05	6.05E-04	4.46E-04	4.46E-04	2.48E-04	6.34E-06	9.21E-05	6.96E-05	6.96E-05	3.83E-05	3.45E-06	4.98E-05	3.10E-05	3.10E-05	1.53E-05
1002	258564.05	4084506.12	4.31E-05	6.24E-04	4.60E-04	4.60E-04	2.56E-04	6.55E-06	9.50E-05	7.18E-05	7.18E-05	3.95E-05	3.56E-06	5.14E-05	3.19E-05	3.19E-05	1.58E-05
1003	258586.64	4084514.49	4.43E-05	6.41E-04	4.72E-04	4.72E-04	2.63E-04	6.72E-06	9.76E-05	7.37E-05	7.37E-05	4.05E-05	3.65E-06	5.28E-05	3.28E-05	3.28E-05	1.62E-05
1004	258609.23	4084522.85	4.52E-05	6.54E-04	4.82E-04	4.82E-04	2.69E-04	6.87E-06	9.97E-05	7.53E-05	7.53E-05	4.14E-05	3.73E-06	5.39E-05	3.35E-05	3.35E-05	1.66E-05
1005	258631.82	4084531.21	4.60E-05	6.65E-04	4.90E-04	4.90E-04	2.73E-04	6.98E-06	1.01E-04	7.65E-05	7.65E-05	4.21E-05	3.79E-06	5.48E-05	3.40E-05	3.40E-05	1.68E-05
1006	258654.41	4084539.58	4.64E-05	6.71E-04	4.95E-04	4.95E-04	2.76E-04	7.04E-06	1.02E-04	7.73E-05	7.73E-05	4.25E-05	3.83E-06	5.53E-05	3.44E-05	3.44E-05	1.70E-05
1007	258677.01	4084547.94	4.66E-05	6.73E-04	4.96E-04	4.96E-04	2.77E-04	7.07E-06	1.03E-04	7.75E-05	7.75E-05	4.26E-05	3.84E-06	5.55E-05	3.45E-05	3.45E-05	1.71E-05
1008	258709.53	4084578.25	4.80E-05	6.95E-04	5.12E-04	5.12E-04	2.85E-04	7.29E-06	1.06E-04	7.99E-05	7.99E-05	4.40E-05	3.96E-06	5.73E-05	3.56E-05	3.56E-05	1.76E-05
1009	258719.46	4084600.2	4.95E-05	7.16E-04	5.28E-04	5.28E-04	2.94E-04	7.51E-06	1.09E-04	8.24E-05	8.24E-05	4.53E-05	4.08E-06	5.90E-05	3.67E-05	3.67E-05	1.81E-05
1010	258729.38	4084622.15	5.06E-05	7.32E-04	5.39E-04	5.39E-04	3.01E-04	7.68E-06	1.12E-04	8.42E-05	8.42E-05	4.63E-05	4.17E-06	6.03E-05	3.75E-05	3.75E-05	1.86E-05
1011	258739.31	4084644.1	5.13E-05	7.42E-04	5.47E-04	5.47E-04	3.05E-04	7.78E-06	1.13E-04	8.53E-05	8.53E-05	4.69E-05	4.23E-06	6.11E-05	3.80E-05	3.80E-05	1.88E-05
1012	258749.24	4084666.05	5.14E-05	7.44E-04	5.48E-04	5.48E-04	3.06E-04	7.81E-06	1.13E-04	8.56E-05	8.56E-05	4.71E-05	4.24E-06	6.13E-05	3.81E-05	3.81E-05	1.89E-05
1013	258759.17	4084687.99	5.11E-05	7.39E-04	5.45E-04	5.45E-04	3.04E-04	7.75E-06	1.13E-04	8.50E-05	8.50E-05	4.68E-05	4.21E-06	6.09E-05	3.78E-05	3.78E-05	1.87E-05
1014	258769.1	4084709.94	5.02E-05	7.26E-04	5.35E-04	5.35E-04	2.98E-04	7.62E-06	1.11E-04	8.36E-05	8.36E-05	4.59E-05	4.14E-06	5.99E-05	3.72E-05	3.72E-05	1.84E-05
1015	258779.03	4084731.89	4.88E-05	7.06E-04	5.20E-04	5.20E-04	2.90E-04	7.41E-06	1.08E-04	8.12E-05	8.12E-05	4.47E-05	4.02E-06	5.82E-05	3.61E-05	3.61E-05	1.79E-05
1016	258788.96	4084753.84	4.70E-05	6.79E-04	5.01E-04	5.01E-04	2.79E-04	7.13E-06	1.03E-04	7.81E-05	7.81E-05	4.30E-05	3.87E-06	5.60E-05	3.48E-05	3.48E-05	1.72E-05
1017	258798.89	4084775.79	4.47E-05	6.47E-04	4.77E-04	4.77E-04	2.66E-04	6.79E-06	9.85E-05	7.44E-05	7.44E-05	4.09E-05	3.69E-06	5.33E-05	3.31E-05	3.31E-05	1.64E-05
1018	258808.82	4084797.73	4.22E-05	6.11E-04	4.50E-04	4.50E-04	2.51E-04	6.41E-06	9.30E-05	7.03E-05	7.03E-05	3.86E-05	3.48E-06	5.03E-05	3.13E-05	3.13E-05	1.55E-05
1019	258818.75	4084819.68	3.95E-05	5.72E-04	4.21E-04	4.21E-04	2.35E-04	6.00E-06	8.71E-05	6.58E-05	6.58E-05	3.62E-05	3.26E-06	4.71E-05	2.93E-05	2.93E-05	1.45E-05
1020	258828.68	4084841.63	3.68E-05	5.32E-04	3.92E-04	3.92E-04	2.19E-04	5.58E-06	8.10E-05	6.12E-05	6.12E-05	3.36E-05	3.03E-06	4.38E-05	2.72E-05	2.72E-05	1.35E-05
1021	258838.61	4084863.58	3.40E-05	4.92E-04	3.63E-04	3.63E-04	2.02E-04	5.17E-06	7.50E-05	5.67E-05	5.67E-05	3.11E-05	2.81E-06	4.06E-05	2.52E-05	2.52E-05	1.25E-05
1022	258848.54	4084885.53	3.14E-05	4.54E-04	3.35E-04	3.35E-04	1.87E-04	4.76E-06	6.92E-05	5.23E-05	5.23E-05	2.87E-05	2.59E-06	3.74E-05	2.32E-05	2.32E-05	1.15E-05
1023	258338.14	4084422.48	2.66E-05	3.84E-04	2.83E-04	2.83E-04	1.58E-04	4.03E-06	5.85E-05	4.42E-05	4.42E-05	2.43E-05	2.19E-06	3.17E-05	1.97E-05	1.97E-05	9.73E-06
1024	258313.81	4084423.48	2.58E-05	3.73E-04	2.75E-04	2.75E-04	1.53E-04	3.91E-06	5.68E-05	4.29E-05	4.29E-05	2.36E-05	2.12E-06	3.07E-05	1.91E-05	1.91E-05	9.45E-06
1025	258289.48	4084424.48	2.49E-05	3.61E-04	2.66E-04	2.66E-04	1.48E-04	3.78E-06	5.49E-05	4.15E-05	4.15E-05	2.28E-05	2.06E-06	2.97E-05	1.85E-05	1.85E-05	9.14E-06
1026	258265.15	4084425.48	2.41E-05	3.48E-04	2.56E-04	2.56E-04	1.43E-04	3.65E-06	5.30E-05	4.00E-05	4.00E-05	2.20E-05	1.98E-06	2.87E-05	1.78E-05	1.78E-05	8.82E-06
1027	258240.81	4084426.48	2.31E-05	3.35E-04	2.47E-04	2.47E-04	1.38E-04	3.51E-06	5.10E-05	3.85E-05	3.85E-05	2.12E-05	1.91E-06	2.76E-05	1.71E-05	1.71E-05	8.48E-06
1028	258216.48	4084427.48	2.22E-05	3.21E-04	2.37E-04	2.37E-04	1.32E-04	3.37E-06	4.89E-05	3.69E-05	3.69E-05	2.03E-05	1.83E-06	2.65E-05	1.64E-05	1.64E-05	8.14E-06
1029	258192.15	4084428.48	2.12E-05	3.07E-04	2.26E-04	2.26E-04	1.26E-04	3.22E-06	4.68E-05	3.53E-05	3.53E-05	1.94E-05	1.75E-06	2.53E-05	1.57E-05	1.57E-05	7.78E-06
1030	258167.82	4084429.48	2.02E-05	2.93E-04	2.16E-04	2.16E-04	1.20E-04	3.07E-06	4.46E-05	3.37E-05	3.37E-05	1.85E-05	1.67E-06	2.41E-05	1.50E-05	1.50E-05	7.42E-06
1031	258143.49	4084430.48	1.92E-05	2.78E-04	2.05E-04	2.05E-04	1.14E-04	2.92E-06	4.24E-05	3.20E-05	3.20E-05	1.76E-05	1.59E-06	2.29E-05	1.42E-05	1.42E-05	7.05E-06
1032	258119.16	4084431.48	1.82E-05	2.64E-04	1.94E-04	1.94E-04	1.08E-04	2.77E-06	4.02E-05	3.03E-05	3.03E-05	1.67E-05	1.50E-06	2.17E-05	1.35E-05	1.35E-05	6.68E-06
1033	258094.82	4084432.49	1.72E-05	2.49E-04	1.84E-04	1.84E-04	1.02E-04	2.62E-06	3.80E-05	2.87E-05	2.87E-05	1.58E-05	1.42E-06	2.06E-05	1.28E-05	1.28E-05	6.32E-06
1034	258070.49	4084433.49	1.63E-05	2.35E-04	1.73E-04	1.73E-04	9.67E-05	2.47E-06	3.59E-05	2.71E-05	2.71E-05	1.49E-05	1.34E-06	1.94E-05	1.21E-05	1.21E-05	5.97E-06
1035	258046.16	4084434.49	1.53E-05	2.22E-04	1.63E-04	1.63E-04	9.11E-05	2.33E-06	3.38E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.83E-05	1.14E-05	1.14E-05	5.62E-06
1036	258021.83	4084435.49	1.44E-05	2.08E-04	1.54E-04	1.54E-04	8.57E-05	2.19E-06	3.18E-05	2.40E-05	2.40E-05	1.32E-05	1.19E-06	1.72E-05	1.07E-05	1.07E-05	5.28E-06
1037	257997.5	4084436.49	1.35E-05	1.96E-04	1.44E-04	1.44E-04	8.05E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.12E-06	1.61E-05	1.00E-05	1.00E-05	4.96E-06
1038	257973.16	4084437.49	1.27E-05	1.84E-04	1.35E-04	1.35E-04	7.55E-05	1.93E-06	2.80E-05	2.11E-05	2.11E-05	1.16E-05	1.05E-06	1.51E-05	9.41E-06	9.41E-06	4.66E-06
1039	257948.83	4084438.49	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.08E-05	1.81E-06	2.63E-05	1.98E-05	1.98E-05	1.09E-05	9.82E-07	1.42E-05	8.82E-06	8.82E-06	4.37E-06
1040	257924.5	4084439.49	1.12E-05	1.62E-04	1.19E-04	1.19E-04	6.64E-05	1.70E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.21E-07	1.33E-05	8.28E-06	8.28E-06	4.10E-06
1041	257900.17	4084440.49	1.05E-05	1.52E-04	1.12E-04	1.12E-04	6.23E-05	1.59E-06	2.31E-05	1.74E-05	1.74E-05	9.59E-06	8.64E-07	1.25E-05	7.76E-06	7.76E-06	3.84E-06
1042	257875.84	4084441.49	9.84E-06	1.42E-04	1.05E-04	1.05E-04	5.85E-05	1.49E-06	2.17E-05	1.64E-05	1.64E-05	9.00E-06	8.11E-07	1.17E-05	7.28E-06	7.28E-06	3.61E-06
1043	257851.51	4084442.49	9.24E-06	1.34E-04	9.85E-05	9.85E-05	5.49E-05	1.40E-06	2.04E-05	1.54E-05	1.54E-05	8.45E-06	7.61E-07	1.10E-05	6.84E-06	6.84E-06	3.39E-06
1044	257827.17	4084443.49	8.68E-06	1.26E-04	9.26E-05	9.26E-05	5.16E-05	1.32E-06	1.91E-05	1.45E-05	1.45E-05	7.95E-06	7.16E-07	1.04E-05	6.43E-06	6.43E-06	3.18E-06
1045	257802.84	4084444.49	8.18E-06	1.18E-04	8.72E-05	8.72E-05	4.86E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.48E-06	6.74E-07	9.75E-06	6.06E-06	6.06E-06	3.00E-06
1046	257778.51	4084445.49	7.72E-06	1.12E-04	8.23E-05	8.23E-05	4.59E-05	1.17E-06	1.70E-05	1.28E-05	1.28E-05	7.06E-06	6.36E-07	9.20E-06	5.71E-06	5.71E-06	2.83E-06

1047	257754.18	4084446.49	7.30E-06	1.06E-04	7.78E-05	7.78E-05	4.34E-05	1.11E-06	1.61E-05	1.21E-05	1.21E-05	6.68E-06	6.02E-07	8.70E-06	5.41E-06	5.41E-06	2.68E-06
1048	257729.85	4084447.49	6.92E-06	1.00E-04	7.38E-05	7.38E-05	4.12E-05	1.05E-06	1.53E-05	1.15E-05	1.15E-05	6.34E-06	5.71E-07	8.25E-06	5.13E-06	5.13E-06	2.54E-06
1049	257705.51	4084448.49	6.58E-06	9.52E-05	7.02E-05	7.02E-05	3.91E-05	9.99E-07	1.45E-05	1.10E-05	1.10E-05	6.02E-06	5.43E-07	7.85E-06	4.88E-06	4.88E-06	2.41E-06
1050	257681.18	4084449.49	6.28E-06	9.08E-05	6.69E-05	6.69E-05	3.73E-05	9.53E-07	1.38E-05	1.05E-05	1.05E-05	5.75E-06	5.18E-07	7.49E-06	4.65E-06	4.65E-06	2.30E-06
1051	257656.85	4084450.49	6.00E-06	8.68E-05	6.40E-05	6.40E-05	3.57E-05	9.11E-07	1.32E-05	9.99E-06	9.99E-06	5.49E-06	4.95E-07	7.16E-06	4.45E-06	4.45E-06	2.20E-06
1052	257632.52	4084451.49	5.75E-06	8.32E-05	6.13E-05	6.13E-05	3.42E-05	8.73E-07	1.27E-05	9.58E-06	9.58E-06	5.27E-06	4.74E-07	6.86E-06	4.26E-06	4.26E-06	2.11E-06
1053	257608.19	4084452.49	5.53E-06	7.99E-05	5.89E-05	5.89E-05	3.28E-05	8.39E-07	1.22E-05	9.20E-06	9.20E-06	5.06E-06	4.56E-07	6.59E-06	4.09E-06	4.09E-06	2.03E-06
1054	257583.86	4084453.49	5.32E-06	7.69E-05	5.67E-05	5.67E-05	3.16E-05	8.07E-07	1.17E-05	8.85E-06	8.85E-06	4.86E-06	4.38E-07	6.34E-06	3.94E-06	3.94E-06	1.95E-06
1055	257559.52	4084454.49	5.12E-06	7.40E-05	5.46E-05	5.46E-05	3.04E-05	7.77E-07	1.13E-05	8.52E-06	8.52E-06	4.68E-06	4.22E-07	6.10E-06	3.79E-06	3.79E-06	1.88E-06
1056	257535.19	4084455.49	4.93E-06	7.14E-05	5.26E-05	5.26E-05	2.93E-05	7.49E-07	1.09E-05	8.21E-06	8.21E-06	4.52E-06	4.07E-07	5.88E-06	3.65E-06	3.65E-06	1.81E-06
1057	258356.86	4084331.02	1.88E-05	2.72E-04	2.00E-04	2.00E-04	1.12E-04	2.85E-06	4.14E-05	3.13E-05	3.13E-05	1.72E-05	1.55E-06	2.24E-05	1.39E-05	1.39E-05	6.89E-06
1058	258379.69	4084339.47	2.01E-05	2.91E-04	2.14E-04	2.14E-04	1.19E-04	3.05E-06	4.43E-05	3.34E-05	3.34E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.36E-06
1059	258402.52	4084347.92	2.14E-05	3.10E-04	2.28E-04	2.28E-04	1.27E-04	3.25E-06	4.72E-05	3.57E-05	3.57E-05	1.96E-05	1.77E-06	2.55E-05	1.59E-05	1.59E-05	7.85E-06
1060	258425.35	4084356.37	2.28E-05	3.29E-04	2.43E-04	2.43E-04	1.35E-04	3.46E-06	5.02E-05	3.79E-05	3.79E-05	2.08E-05	1.88E-06	2.71E-05	1.69E-05	1.69E-05	8.35E-06
1061	258448.18	4084364.83	2.41E-05	3.49E-04	2.57E-04	2.57E-04	1.43E-04	3.66E-06	5.31E-05	4.01E-05	4.01E-05	2.21E-05	1.99E-06	2.88E-05	1.79E-05	1.79E-05	8.84E-06
1062	258471.01	4084373.28	2.55E-05	3.68E-04	2.72E-04	2.72E-04	1.51E-04	3.87E-06	5.61E-05	4.24E-05	4.24E-05	2.33E-05	2.10E-06	3.04E-05	1.89E-05	1.89E-05	9.34E-06
1063	258493.84	4084381.73	2.68E-05	3.88E-04	2.86E-04	2.86E-04	1.59E-04	4.07E-06	5.91E-05	4.46E-05	4.46E-05	2.45E-05	2.21E-06	3.20E-05	1.99E-05	1.99E-05	9.83E-06
1064	258516.66	4084390.18	2.81E-05	4.07E-04	3.00E-04	3.00E-04	1.67E-04	4.27E-06	6.20E-05	4.68E-05	4.68E-05	2.57E-05	2.32E-06	3.35E-05	2.08E-05	2.08E-05	1.03E-05
1065	258539.49	4084398.63	2.94E-05	4.25E-04	3.14E-04	3.14E-04	1.75E-04	4.46E-06	6.48E-05	4.90E-05	4.90E-05	2.69E-05	2.42E-06	3.51E-05	2.18E-05	2.18E-05	1.08E-05
1066	258562.32	4084407.09	3.06E-05	4.43E-04	3.27E-04	3.27E-04	1.82E-04	4.65E-06	6.75E-05	5.10E-05	5.10E-05	2.80E-05	2.53E-06	3.65E-05	2.27E-05	2.27E-05	1.12E-05
1067	258585.15	4084415.54	3.18E-05	4.60E-04	3.39E-04	3.39E-04	1.89E-04	4.83E-06	7.01E-05	5.29E-05	5.29E-05	2.91E-05	2.62E-06	3.79E-05	2.36E-05	2.36E-05	1.17E-05
1068	258607.98	4084423.99	3.29E-05	4.76E-04	3.50E-04	3.50E-04	1.95E-04	4.99E-06	7.24E-05	5.47E-05	5.47E-05	3.01E-05	2.71E-06	3.92E-05	2.43E-05	2.43E-05	1.21E-05
1069	258630.81	4084432.44	3.38E-05	4.90E-04	3.61E-04	3.61E-04	2.01E-04	5.14E-06	7.46E-05	5.63E-05	5.63E-05	3.10E-05	2.79E-06	4.04E-05	2.51E-05	2.51E-05	1.24E-05
1070	258653.64	4084440.9	3.47E-05	5.02E-04	3.70E-04	3.70E-04	2.06E-04	5.27E-06	7.65E-05	5.78E-05	5.78E-05	3.18E-05	2.86E-06	4.14E-05	2.57E-05	2.57E-05	1.27E-05
1071	258676.47	4084449.35	3.54E-05	5.12E-04	3.78E-04	3.78E-04	2.10E-04	5.37E-06	7.80E-05	5.89E-05	5.89E-05	3.24E-05	2.92E-06	4.22E-05	2.62E-05	2.62E-05	1.30E-05
1072	258699.29	4084457.8	3.60E-05	5.20E-04	3.83E-04	3.83E-04	2.14E-04	5.46E-06	7.92E-05	5.98E-05	5.98E-05	3.29E-05	2.96E-06	4.29E-05	2.66E-05	2.66E-05	1.32E-05
1073	258722.12	4084466.25	3.63E-05	5.24E-04	3.86E-04	3.86E-04	2.15E-04	5.50E-06	7.99E-05	6.03E-05	6.03E-05	3.32E-05	2.99E-06	4.32E-05	2.68E-05	2.68E-05	1.33E-05
1074	258744.95	4084474.7	3.64E-05	5.26E-04	3.88E-04	3.88E-04	2.16E-04	5.52E-06	8.01E-05	6.05E-05	6.05E-05	3.33E-05	3.00E-06	4.34E-05	2.69E-05	2.69E-05	1.33E-05
1075	258777.81	4084505.33	3.76E-05	5.44E-04	4.01E-04	4.01E-04	2.23E-04	5.71E-06	8.28E-05	6.26E-05	6.26E-05	3.44E-05	3.10E-06	4.48E-05	2.78E-05	2.78E-05	1.38E-05
1076	258787.85	4084527.51	3.87E-05	5.60E-04	4.12E-04	4.12E-04	2.30E-04	5.87E-06	8.53E-05	6.44E-05	6.44E-05	3.54E-05	3.19E-06	4.61E-05	2.87E-05	2.87E-05	1.42E-05
1077	258797.88	4084549.69	3.95E-05	5.72E-04	4.22E-04	4.22E-04	2.35E-04	6.00E-06	8.71E-05	6.58E-05	6.58E-05	3.62E-05	3.26E-06	4.71E-05	2.93E-05	2.93E-05	1.45E-05
1078	258807.92	4084571.87	4.01E-05	5.81E-04	4.28E-04	4.28E-04	2.39E-04	6.09E-06	8.84E-05	6.68E-05	6.68E-05	3.67E-05	3.31E-06	4.79E-05	2.97E-05	2.97E-05	1.47E-05
1079	258817.95	4084594.05	4.04E-05	5.85E-04	4.31E-04	4.31E-04	2.40E-04	6.14E-06	8.91E-05	6.73E-05	6.73E-05	3.70E-05	3.33E-06	4.82E-05	2.99E-05	2.99E-05	1.48E-05
1080	258827.98	4084616.23	4.04E-05	5.84E-04	4.31E-04	4.31E-04	2.40E-04	6.13E-06	8.90E-05	6.72E-05	6.72E-05	3.70E-05	3.33E-06	4.82E-05	2.99E-05	2.99E-05	1.48E-05
1081	258838.02	4084638.41	4.00E-05	5.79E-04	4.27E-04	4.27E-04	2.38E-04	6.08E-06	8.82E-05	6.66E-05	6.66E-05	3.66E-05	3.30E-06	4.77E-05	2.97E-05	2.97E-05	1.47E-05
1082	258848.05	4084660.59	3.94E-05	5.69E-04	4.19E-04	4.19E-04	2.34E-04	5.97E-06	8.67E-05	6.55E-05	6.55E-05	3.60E-05	3.24E-06	4.69E-05	2.91E-05	2.91E-05	1.44E-05
1083	258858.09	4084682.77	3.83E-05	5.55E-04	4.09E-04	4.09E-04	2.28E-04	5.82E-06	8.45E-05	6.38E-05	6.38E-05	3.51E-05	3.16E-06	4.57E-05	2.84E-05	2.84E-05	1.41E-05
1084	258868.12	4084704.95	3.71E-05	5.36E-04	3.95E-04	3.95E-04	2.20E-04	5.63E-06	8.17E-05	6.17E-05	6.17E-05	3.39E-05	3.06E-06	4.42E-05	2.74E-05	2.74E-05	1.36E-05
1085	258878.15	4084727.12	3.55E-05	5.14E-04	3.79E-04	3.79E-04	2.11E-04	5.39E-06	7.83E-05	5.92E-05	5.92E-05	3.25E-05	2.93E-06	4.24E-05	2.63E-05	2.63E-05	1.30E-05
1086	258888.19	4084749.3	3.38E-05	4.89E-04	3.61E-04	3.61E-04	2.01E-04	5.13E-06	7.45E-05	5.63E-05	5.63E-05	3.10E-05	2.79E-06	4.03E-05	2.51E-05	2.51E-05	1.24E-05
1087	258898.22	4084771.48	3.20E-05	4.63E-04	3.41E-04	3.41E-04	1.90E-04	4.86E-06	7.05E-05	5.32E-05	5.32E-05	2.93E-05	2.64E-06	3.81E-05	2.37E-05	2.37E-05	1.17E-05
1088	258908.26	4084793.66	3.01E-05	4.35E-04	3.21E-04	3.21E-04	1.79E-04	4.56E-06	6.63E-05	5.01E-05	5.01E-05	2.75E-05	2.48E-06	3.59E-05	2.23E-05	2.23E-05	1.10E-05
1089	258918.29	4084815.84	2.82E-05	4.07E-04	3.00E-04	3.00E-04	1.67E-04	4.27E-06	6.20E-05	4.69E-05	4.69E-05	2.58E-05	2.32E-06	3.36E-05	2.08E-05	2.08E-05	1.03E-05
1090	258928.32	4084838.02	2.63E-05	3.80E-04	2.80E-04	2.80E-04	1.56E-04	3.99E-06	5.79E-05	4.37E-05	4.37E-05	2.40E-05	2.17E-06	3.13E-05	1.95E-05	1.95E-05	9.63E-06
1091	258938.36	4084860.2	2.45E-05	3.54E-04	2.61E-04	2.61E-04	1.45E-04	3.71E-06	5.39E-05	4.07E-05	4.07E-05	2.24E-05	2.02E-06	2.92E-05	1.81E-05	1.81E-05	8.96E-06
1092	258948.39	4084882.38	2.27E-05	3.29E-04	2.42E-04	2.42E-04	1.35E-04	3.45E-06	5.01E-05	3.78E-05	3.78E-05	2.08E-05	1.87E-06	2.71E-05	1.68E-05	1.68E-05	8.33E-06
1093	258334.03	4084322.57	1.75E-05	2.53E-04	1.87E-04	1.87E-04	1.04E-04	2.66E-06	3.86E-05	2.92E-05	2.92E-05	1.60E-05	1.44E-06	2.09E-05	1.30E-05	1.30E-05	6.42E-06
1094	258309.7	4084323.57	1.69E-05	2.44E-04	1.80E-04	1.80E-04	1.00E-04	2.56E-06	3.72E-05	2.81E-05	2.81E-05	1.54E-05	1.39E-06	2.01E-05	1.25E-05	1.25E-05	6.19E-06
1095	258285.37	4084324.57	1.62E-05	2.35E-04	1.73E-04	1.73E-04	9.64E-05	2.46E-06	3.57E-05	2.70E-05	2.70E-05	1.48E-05	1.34E-06	1.93E-05	1.20E-05	1.20E-05	5.95E-06
1096	258261.04	4084325.57	1.56E-05	2.25E-04	1.66E-04	1.66E-04	9.25E-05	2.36E-06	3.43E-05	2.59E-05	2.59E-05	1.42E-05	1.28E-06	1.85E-05	1.15E-05	1.15E-05	5.70E-06
1097	258236.71	4084326.57	1.49E-05	2.15E-04	1.59E-04	1.59E-04	8.84E-05	2.26E-06	3.28E-05	2.48E-05	2.48E-05	1.36E-05	1.23E-06	1.77E-05	1.10E-05	1.10E-05	5.45E-06
1098	258212.38	4084327.57	1.42E-05	2.05E-04	1.51E-04	1.51E-04	8.44E-05	2.15E-06	3.13E-05	2.36E-05	2.36E-05	1.30E-05	1.17E-06	1.69E-05	1.05E-05	1.05E-05	5.20E-06
1099	258188.04	4084328.57	1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.03E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.11E-06	1.61E-05	1.00E-05	1.00E-05	4.95E-06
1100	258163.71	4084329.57	1.28E-05	1.86E-04	1.37E-04	1.37E-04	7.63E-05	1.95E-06	2.83E-05	2.14E-05	2.14E-05	1.18E-05	1.06E-06	1.53E-05	9.51E-06	9.51E-06	4.71E-06
1101	258139.38	4084330.57	1.22E-05	1.76E-04	1.30E-04	1.30E-04	7.24E-05	1.85E-06	2.68E-05	2.03E-05	2.03E-05	1.11E-05	1.00E-06	1.45E-05	9.02E-06	9.02E-06	4.46E-06
1102	258115.05	4084331.57	1.15E-05	1.67E-04	1.23E-04	1.23E-04	6.85E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.51E-07	1.37E-05	8.54E-06	8.54E-06	4.23E-06
1103	258090.72	4084332.57	1.09E-05	1.58E-04	1.16E-04	1.16E-04	6.48E-05	1.66E-06	2.40E-05	1.82E-05	1.82E-05	9.98E-06	8.99E-07	1.30E-05	8.08E-06	8.08E-06	4.00E-06
1104	258066.38	4084333.57	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.13E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.44E-06	8.50E-07	1.23E-05	7.64E-06	7.64E-06	3.78E-06
1105	258042.05	4084334.57	9.75E-06	1.41E-04	1.04E-04	1.04E-04	5.79E-05	1.48E-06	2.15E-05	1.62E-05	1.62E-05	8.92E-06	8.03E-07	1.16E-05	7.22E-06	7.22E-06	3.57E-06
1106	258017.72	4084335.57	9.21E-06	1.33E-04	9.82E-05	9.82E-05	5.48E-05	1.40E-06	2.03E-05	1.53E-05	1.53E-05	8.43E-06	7.60E-07	1.10E-05	6.82E-06	6.82E-06	3.38E-06
1107	257993.39	4084336.57	8.71E-06	1.26E-04	9.29E-05	9.29E-05	5.18E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.97E-06	7.18E-07	1.04E-05	6.45E-06	6.45E-06	3.19E-06
1108	257969.06	4084337.57	8.25E-06	1.19E-04	8.79E-05	8.79E-05	4.90E-05	1.25E-06	1.82E-05	1.37E-05	1.37E-05	7.55E-06	6.80E-07	9.83E-06	6.11E-06	6.11E-06	3.02E-06
1109	257944.73	4084338.57	7.81E-06	1.13E-04	8.33E-05	8.33E-05	4.64E-05	1.19E-06	1.72E-05	1.30E-05	1.30E-05	7.15E-06	6.44E-07	9.31E-06	5.78E-06	5.78E-06	2.86E-06
1110	257920.39	4084339.57	7.41E-06	1.07E-04	7.89E-05	7.89E-05	4.40E-05	1.12E-06	1.63E-05	1.23E-05	1.23E-05	6.78E-06	6.10E-07	8.83E-06	5.48E-06	5.48E-06	2.71E-06
1111	257896.06	4084340.57	7.03E-06	1.02E-04	7.49E-05	7.49E-05	4.18E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.43E-06	5.79E-07	8.38E-06	5.20E-06	5.20E-06	2.58E-06
1112	257871.73	4084341.57	6.68E-06	9.66E-05	7.12E-05	7.12E-05	3.97E-05	1.01E-06	1.47E-05	1.11E-05	1.11E-05	6.11E-06	5.50E-07	7.96E-06	4.95E-06	4.95E-06	2.45E-06
1113	257847.4	4084342.57	6.35E-06	9.18E-05	6.77E-05	6.77E-05	3.77E-05	9.64E-07	1.40E-05	1.06E-05	1.06E-05	5.81E-06	5.23E-07	7.57E-06	4.70E-06	4.70E-06	2.33E-06
1114	257823.07	4084343.57	6.05E-06	8.75E-05	6.45E-05	6.45E-05	3.59E-05	9.18E-07	1.33E-05	1.01E-05	1.01E-05	5.53E-06	4.98E-07	7.21E-06	4.48E-06	4.48E-06	2.22E-06
1115	257798.73	4084344.57	5.77E-06	8.34E-05	6.15E-05	6.15E-05	3.43E-05	8.75E-07	1.27E-05	9.60E-06	9.60E-06	5.28E-06	4.75E-07	6.87E-06	4.27E-06	4.27E-06	2.11E-06
1116	257774.4	4084345.57	5.50E-06	7.96E-05	5.87E-05	5.87E-05	3.27E-05	8.35E-07	1.21E-05	9.16E-06	9.16E-06	5.04E-06	4.54E-07	6.56E-06	4.08E-06	4.08E-06	2.02E-06
1117	257750.07	4084346.57	5.26E-06	7.61E-05	5.61E-05	5.61E-05	3.13E-05	7.99E-07	1.16E-05	8.76E-06	8.76E-06	4.82E-06	4.34E-07	6.28E-06	3.90E-06	3.90E-06	1.93E-06
1118	257725.74	4084347.57	5.04E-06	7.29E-05	5.38E-05	5.38E-05	3.00E-05	7.65E-07	1.11E-05	8.39E-06	8.39E-06	4.61E-06	4.16E-07	6.01E-06	3.73E-06	3.73E-06	1.85E-06
1119	257701.41	4084348.57	4.84E-06	7.00E-05	5.16E-05	5.16E-05	2.88E-05	7.35E-07	1.07E-05	8.06E-06	8.06E-06	4.43E-06	3.99E-07	5.77E-06	3.59E-06	3.59E-06	1.77E-06
1120	257677.08	4084349.57	4.66E-06	6.74E-05	4.97E-05	4.97E-05	2.77E-05	7.07E-07	1.03E-05	7.75E-06	7.75E-06	4.26E-06	3.84E-07	5.55E-06	3.45E-06	3.45E-06	1.71E-06
1121	257652.74	4084350.57	4.49E-06	6.49E-05	4.78E-05	4.78E-05	2.67E-05	6.81E-07	9.89E-06	7.47E-06	7.47E-06	4.11E-06	3.70E-07	5.35E-06	3.32E-06	3.32E-06	1.64E-06
1122	257628.41	4084351.58	4.33E-06	6.27E-05	4.62E-05	4.62E-05	2.58E-05	6.58E-07	9.55E-06	7.21E-06	7.21E-06	3.97E-06	3.57E-07	5.17E-06	3.21E-06	3.21E-06	1.59E-06
1123	257604.08	4084352.58	4.19E-06	6.06E-05	4.47E-05	4.47E-05	2.49E-05	6.36E-07	9.24E-06	6.98E-06	6.98E-06	3.84E-06	3.46E-07	5.00E-06	3.10E-06	3.10E-06	1.54E-06
1124	257579.75	4084353.58	4.06E-06	5.87E-05	4.33E-05	4.33E-05	2.41E-05	6.16E-07	8.95E-06	6.76E-06	6.76E-06	3.72E-06	3.35E-07	4.84E-06	3.01E-06	3.01E-06	1.49E-06
1125	257555.42	4084354.58	3.94E-06	5.70E-05	4.20E-05	4.20E-05	2.34E-05	5.98E-07	8.68E-06	6.56E-06	6.56E-06	3.60E-06	3.25E-07	4.70E-06	2.92E-06	2.92E-06	1.44E-06
1126	257531.08	4084355.58	3.83E-06	5.53E-05	4.08E-05	4.08E-05	2.27E-05	5.81E-07	8.43E-06	6.37E-06	6.37E-06	3.50E-06	3.15E-07	4.56E-06	2.83E-06	2.83E-06	1.40E-06
1127	258351.93	4084230.8	1.27E-05	1.84E-04	1.36E-04	1.36E-04	7.57E-05	1.93E-06	2.81E-05	2.12E-05	2.12E-05	1.17E-05	1.05E-06	1.52E-05	9.43E-06	9.43E-06	4.67E-06
1128	258373.93	4084238.94	1.36E-05	1.97E-04	1.45E-04	1.45E-04	8.09E-05	2.07E-06	3.00E-05	2.27E-05	2.27E-05	1.25E-05	1.12E-06	1.62E-05	1.01E-05	1.01E-05	4.99E-06
1129	258395.93	4084247.09	1.45E-05	2.10E-04	1.55E-04	1.55E-04	8.64E-05	2.21E-06	3.20E-05	2.42E-05	2.42E-05	1.33E-05	1.20E-06	1.73E-05	1.08E-05	1.08E-05	5.33E-06
1130	258417.93	4084255.23	1.55E-05	2.24E-04	1.65E-04	1.65E-04	9.20E-05	2.35E-06	3.41E-05	2.58E-05	2.58E-05	1.42E-05	1.28E-06	1.85E-05	1.15E-05	1.15E-05	5.67E-06
1131	258439.93	4084263.38	1.65E-05	2.38E-04	1.75E-04	1.75E-04	9.78E-05	2.50E-06	3.63E-05	2.74E-05	2.74E-05	1.51E-05	1.36E-06	1.96E-05	1.22E-05	1.22E-05	6.03E-06
1132	258461.94	4084271.53	1.74E-05	2.52E-04	1.86E-04	1.86E-04	1.04E-04	2.65E-06	3.84E-05	2.90E-05	2.90E-05	1.60E-05	1.44E-06	2.08E-05	1.29E-05	1.29E-05	6.40E-06
1133	258483.94	4084279.67	1.84E-05	2.67E-04	1.97E-04	1.97E-04	1.10E-04	2.80E-06	4.06E-05	3.07E-05	3.07E-05	1.69E-05	1.52E-06	2.20E-05	1.37E-05	1.37E-05	6.76E-06
1134	258505.94	4084287.82	1.95E-05	2.81E-04	2.07E-04	2.07E-04	1.16E-04	2.95E-06	4.29E-05	3.24E-05	3.24E-05	1.78E-05	1.60E-06	2.32E-05	1.44E-05	1.44E-05	7.13E-06
1135	258527.94	4084295.96	2.05E-05	2.96E-04	2.18E-04	2.18E-04	1.22E-04	3.10E-06	4.51E-05	3.41E-05	3.41E-05	1.87E-05	1.69E-06	2.44E-05	1.52E-05	1.52E-05	7.50E-06
1136	258549.94	4084304.11	2.15E-05	3.10E-04	2.29E-04	2.29E-04	1.28E-04	3.26E-06	4.73E-05	3.57E-05	3.57E-05	1.96E-05	1.77E-06	2.56E-05	1.59E-05	1.59E-05	7.87E-06
1137	258571.94	4084312.25	2.24E-05	3.24E-04	2.39E-04	2.39E-04	1.33E-04	3.40E-06	4.94E-05	3.73E-05	3.73E-05	2.05E-05	1.85E-06	2.67E-05	1.66E-05	1.66E-05	8.22E-06
1138	258593.95	4084320.4	2.34E-05	3.38E-04	2.49E-04	2.49E-04	1.39E-04	3.55E-06	5.15E-05	3.89E-05	3.89E-05	2.14E-05	1.93E-06	2.79E-05	1.73E-05	1.73E-05	8.57E-06
1139	258615.95	4084328.55	2.43E-05	3.52E-04	2.59E-04	2.59E-04	1.44E-04	3.69E-06	5.36E-05	4.05E-05	4.05E-05	2.22E-05	2.00E-06	2.90E-05	1.80E-05	1.80E-05	8.91E-06
1140	258637.95	4084336.69	2.52E-05	3.64E-04	2.69E-04	2.69E-04	1.50E-04	3.82E-06	5.55E-05	4.19E-05	4.19E-05	2.30E-05	2.08E-06	3.00E-05	1.87E-05	1.87E-05	9.23E-06
1141	258659.95	4084344.84	2.60E-05	3.76E-04	2.77E-04	2.77E-04	1.55E-04	3.95E-06	5.73E-05	4.33E-05	4.33E-05	2.38E-05	2.14E-06	3.10E-05	1.93E-05	1.93E-05	9.54E-06
1142	258681.95	4084352.98	2.68E-05	3.87E-04	2.86E-04	2.86E-04	1.59E-04	4.06E-06	5.90E-05	4.46E-05	4.46E-05	2.45E-05	2.21E-06	3.19E-05	1.98E-05	1.98E-05	9.82E-06
1143	258703.95	4084361.13	2.75E-05	3.97E-04	2.93E-04	2.93E-04	1.63E-04	4.17E-06	6.05E-05	4.57E-05	4.57E-05	2.51E-05	2.26E-06	3.28E-05	2.03E-05	2.03E-05	1.01E-05
1144	258725.96	4084369.28	2.81E-05	4.06E-04	2.99E-04	2.99E-04	1.67E-04	4.26E-06	6.19E-05	4.67E-05	4.67E-05	2.57E-05	2.31E-06	3.35E-05	2.08E-05	2.08E-05	1.03E-05
1145	258747.96	4084377.42	2.86E-05	4.14E-04	3.05E-04	3.05E-04	1.70E-04	4.34E-06	6.30E-05	4.76E-05	4.76E-05	2.62E-05	2.36E-06	3.41E-05	2.12E-05	2.12E-05	1.05E-05
1146	258769.96	4084385.57	2.90E-05	4.19E-04	3.09E-04	3.09E-04	1.72E-04	4.40E-06	6.39E-05	4.82E-05	4.82E-05	2.65E-05	2.39E-06	3.46E-05	2.15E-05	2.15E-05	1.06E-05
1147	258791.96	4084393.71	2.93E-05	4.23E-04	3.12E-04	3.12E-04	1.74E-04	4.44E-06	6.45E-05	4.87E-05	4.87E-05	2.68E-05	2.41E-06	3.49E-05	2.17E-05	2.17E-05	1.07E-05
1148	258813.96	4084401.86	2.93E-05	4.24E-04	3.13E-04	3.13E-04	1.74E-04	4.45E-06	6.46E-05	4.88E-05	4.88E-05	2.68E-05	2.42E-06	3.50E-05	2.17E-05	2.17E-05	1.08E-05
1149	258845.63	4084431.38	3.03E-05	4.38E-04	3.23E-04	3.23E-04	1.80E-04	4.60E-06	6.67E-05	5.04E-05	5.04E-05	2.77E-05	2.50E-06	3.61E-05	2.24E-05	2.24E-05	1.11E-05
1150	258855.3	4084452.76	3.11E-05	4.50E-04	3.32E-04	3.32E-04	1.85E-04	4.72E-06	6.86E-05	5.18E-05	5.18E-05	2.85E-05	2.56E-06	3.71E-05	2.30E-05	2.30E-05	1.14E-05
1151	258864.97	4084474.13	3.18E-05	4.60E-04	3.39E-04	3.39E-04	1.89E-04	4.82E-06	7.00E-05	5.29E-05	5.29E-05	2.91E-05	2.62E-06	3.79E-05	2.35E-05	2.35E-05	1.17E-05

1152	258874.64	4084495.51	3.23E-05	4.67E-04	3.44E-04	3.44E-04	1.92E-04	4.90E-06	7.12E-05	5.38E-05	5.38E-05	2.96E-05	2.66E-06	3.85E-05	2.39E-05	2.39E-05	1.18E-05
1153	258884.32	4084516.88	3.26E-05	4.72E-04	3.48E-04	3.48E-04	1.94E-04	4.95E-06	7.19E-05	5.43E-05	5.43E-05	2.99E-05	2.69E-06	3.89E-05	2.42E-05	2.42E-05	1.20E-05
1154	258893.99	4084538.26	3.28E-05	4.74E-04	3.50E-04	3.50E-04	1.95E-04	4.98E-06	7.23E-05	5.46E-05	5.46E-05	3.00E-05	2.70E-06	3.91E-05	2.43E-05	2.43E-05	1.20E-05
1155	258903.66	4084559.63	3.27E-05	4.74E-04	3.49E-04	3.49E-04	1.95E-04	4.97E-06	7.22E-05	5.45E-05	5.45E-05	3.00E-05	2.70E-06	3.90E-05	2.43E-05	2.43E-05	1.20E-05
1156	258913.33	4084581.01	3.25E-05	4.70E-04	3.47E-04	3.47E-04	1.93E-04	4.93E-06	7.16E-05	5.41E-05	5.41E-05	2.97E-05	2.68E-06	3.88E-05	2.41E-05	2.41E-05	1.19E-05
1157	258923	4084602.38	3.21E-05	4.64E-04	3.42E-04	3.42E-04	1.91E-04	4.87E-06	7.07E-05	5.34E-05	5.34E-05	2.93E-05	2.64E-06	3.82E-05	2.37E-05	2.37E-05	1.18E-05
1158	258932.67	4084623.76	3.14E-05	4.55E-04	3.35E-04	3.35E-04	1.87E-04	4.77E-06	6.93E-05	5.23E-05	5.23E-05	2.88E-05	2.59E-06	3.75E-05	2.33E-05	2.33E-05	1.15E-05
1159	258942.34	4084645.13	3.06E-05	4.43E-04	3.27E-04	3.27E-04	1.82E-04	4.65E-06	6.75E-05	5.10E-05	5.10E-05	2.80E-05	2.53E-06	3.65E-05	2.27E-05	2.27E-05	1.12E-05
1160	258952.01	4084666.51	2.97E-05	4.29E-04	3.16E-04	3.16E-04	1.76E-04	4.50E-06	6.54E-05	4.94E-05	4.94E-05	2.72E-05	2.45E-06	3.54E-05	2.20E-05	2.20E-05	1.09E-05
1161	258961.68	4084687.89	2.86E-05	4.13E-04	3.05E-04	3.05E-04	1.70E-04	4.34E-06	6.30E-05	4.76E-05	4.76E-05	2.62E-05	2.36E-06	3.41E-05	2.12E-05	2.12E-05	1.05E-05
1162	258971.35	4084709.26	2.74E-05	3.96E-04	2.92E-04	2.92E-04	1.63E-04	4.16E-06	6.04E-05	4.56E-05	4.56E-05	2.51E-05	2.26E-06	3.27E-05	2.03E-05	2.03E-05	1.00E-05
1163	258981.02	4084730.64	2.61E-05	3.78E-04	2.78E-04	2.78E-04	1.55E-04	3.96E-06	5.75E-05	4.35E-05	4.35E-05	2.39E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.57E-06
1164	258990.69	4084752.01	2.48E-05	3.59E-04	2.64E-04	2.64E-04	1.47E-04	3.76E-06	5.46E-05	4.13E-05	4.13E-05	2.27E-05	2.04E-06	2.96E-05	1.84E-05	1.84E-05	9.09E-06
1165	259000.36	4084773.39	2.35E-05	3.39E-04	2.50E-04	2.50E-04	1.39E-04	3.56E-06	5.17E-05	3.90E-05	3.90E-05	2.15E-05	1.93E-06	2.80E-05	1.74E-05	1.74E-05	8.60E-06
1166	259010.03	4084794.76	2.21E-05	3.20E-04	2.36E-04	2.36E-04	1.32E-04	3.36E-06	4.88E-05	3.68E-05	3.68E-05	2.02E-05	1.82E-06	2.64E-05	1.64E-05	1.64E-05	8.11E-06
1167	259019.7	4084816.14	2.08E-05	3.01E-04	2.22E-04	2.22E-04	1.24E-04	3.16E-06	4.59E-05	3.47E-05	3.47E-05	1.91E-05	1.72E-06	2.48E-05	1.54E-05	1.54E-05	7.64E-06
1168	259029.37	4084837.51	1.96E-05	2.83E-04	2.09E-04	2.09E-04	1.16E-04	2.97E-06	4.32E-05	3.26E-05	3.26E-05	1.79E-05	1.62E-06	2.34E-05	1.45E-05	1.45E-05	7.18E-06
1169	259039.04	4084858.89	1.84E-05	2.66E-04	1.96E-04	1.96E-04	1.09E-04	2.79E-06	4.06E-05	3.06E-05	3.06E-05	1.68E-05	1.52E-06	2.19E-05	1.36E-05	1.36E-05	6.75E-06
1170	259048.71	4084880.26	1.73E-05	2.50E-04	1.84E-04	1.84E-04	1.03E-04	2.62E-06	3.81E-05	2.88E-05	2.88E-05	1.58E-05	1.42E-06	2.06E-05	1.28E-05	1.28E-05	6.33E-06
1171	258329.93	4084222.65	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.06E-05	1.80E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.80E-07	1.42E-05	8.80E-06	8.80E-06	4.36E-06
1172	258305.59	4084223.65	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.78E-05	1.73E-06	2.51E-05	1.90E-05	1.90E-05	1.04E-05	9.40E-07	1.36E-05	8.45E-06	8.45E-06	4.18E-06
1173	258281.26	4084224.65	1.09E-05	1.58E-04	1.17E-04	1.17E-04	6.50E-05	1.66E-06	2.41E-05	1.82E-05	1.82E-05	1.00E-05	9.01E-07	1.30E-05	8.10E-06	8.10E-06	4.01E-06
1174	258256.93	4084225.65	1.05E-05	1.51E-04	1.12E-04	1.12E-04	6.22E-05	1.59E-06	2.31E-05	1.74E-05	1.74E-05	9.57E-06	8.62E-07	1.25E-05	7.75E-06	7.75E-06	3.84E-06
1175	258232.6	4084226.65	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.94E-05	1.52E-06	2.20E-05	1.66E-05	1.66E-05	9.15E-06	8.24E-07	1.19E-05	7.40E-06	7.40E-06	3.66E-06
1176	258208.27	4084227.65	9.53E-06	1.38E-04	1.02E-04	1.02E-04	5.67E-05	1.45E-06	2.10E-05	1.59E-05	1.59E-05	8.72E-06	7.86E-07	1.14E-05	7.06E-06	7.06E-06	3.49E-06
1177	258183.94	4084228.65	9.08E-06	1.31E-04	9.68E-05	9.68E-05	5.40E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.31E-06	7.49E-07	1.08E-05	6.73E-06	6.73E-06	3.33E-06
1178	258159.6	4084229.65	8.64E-06	1.25E-04	9.21E-05	9.21E-05	5.14E-05	1.31E-06	1.90E-05	1.44E-05	1.44E-05	7.91E-06	7.12E-07	1.03E-05	6.40E-06	6.40E-06	3.17E-06
1179	258135.27	4084230.65	8.21E-06	1.19E-04	8.76E-05	8.76E-05	4.88E-05	1.25E-06	1.81E-05	1.37E-05	1.37E-05	7.52E-06	6.77E-07	9.79E-06	6.08E-06	6.08E-06	3.01E-06
1180	258110.94	4084231.65	7.81E-06	1.13E-04	8.32E-05	8.32E-05	4.64E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.14E-06	6.44E-07	9.31E-06	5.78E-06	5.78E-06	2.86E-06
1181	258086.61	4084232.65	7.42E-06	1.07E-04	7.91E-05	7.91E-05	4.41E-05	1.13E-06	1.64E-05	1.24E-05	1.24E-05	6.79E-06	6.12E-07	8.85E-06	5.50E-06	5.50E-06	2.72E-06
1182	258062.28	4084233.65	7.06E-06	1.02E-04	7.52E-05	7.52E-05	4.19E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.46E-06	5.82E-07	8.41E-06	5.22E-06	5.22E-06	2.59E-06
1183	258037.94	4084234.65	6.71E-06	9.71E-05	7.15E-05	7.15E-05	3.99E-05	1.02E-06	1.48E-05	1.12E-05	1.12E-05	6.14E-06	5.53E-07	8.00E-06	4.97E-06	4.97E-06	2.46E-06
1184	258013.61	4084235.65	6.39E-06	9.24E-05	6.81E-05	6.81E-05	3.80E-05	9.69E-07	1.41E-05	1.06E-05	1.06E-05	5.84E-06	5.26E-07	7.61E-06	4.73E-06	4.73E-06	2.34E-06
1185	257989.28	4084236.66	6.09E-06	8.80E-05	6.49E-05	6.49E-05	3.62E-05	9.24E-07	1.34E-05	1.01E-05	1.01E-05	5.57E-06	5.02E-07	7.26E-06	4.51E-06	4.51E-06	2.23E-06
1186	257964.95	4084237.66	5.81E-06	8.40E-05	6.19E-05	6.19E-05	3.45E-05	8.81E-07	1.28E-05	9.66E-06	9.66E-06	5.31E-06	4.79E-07	6.92E-06	4.30E-06	4.30E-06	2.13E-06
1187	257940.62	4084238.66	5.54E-06	8.02E-05	5.91E-05	5.91E-05	3.29E-05	8.41E-07	1.22E-05	9.23E-06	9.23E-06	5.07E-06	4.57E-07	6.61E-06	4.10E-06	4.10E-06	2.03E-06
1188	257916.29	4084239.66	5.30E-06	7.66E-05	5.65E-05	5.65E-05	3.15E-05	8.04E-07	1.17E-05	8.82E-06	8.82E-06	4.85E-06	4.37E-07	6.32E-06	3.92E-06	3.92E-06	1.94E-06
1189	257891.95	4084240.66	5.07E-06	7.34E-05	5.41E-05	5.41E-05	3.02E-05	7.70E-07	1.12E-05	8.44E-06	8.44E-06	4.64E-06	4.18E-07	6.05E-06	3.76E-06	3.76E-06	1.86E-06
1190	257867.62	4084241.66	4.86E-06	7.04E-05	5.19E-05	5.19E-05	2.89E-05	7.38E-07	1.07E-05	8.10E-06	8.10E-06	4.45E-06	4.01E-07	5.80E-06	3.60E-06	3.60E-06	1.78E-06
1191	257843.29	4084242.66	4.67E-06	6.76E-05	4.98E-05	4.98E-05	2.78E-05	7.09E-07	1.03E-05	7.78E-06	7.78E-06	4.28E-06	3.85E-07	5.57E-06	3.46E-06	3.46E-06	1.71E-06
1192	257818.96	4084243.66	4.50E-06	6.50E-05	4.79E-05	4.79E-05	2.67E-05	6.82E-07	9.91E-06	7.48E-06	7.48E-06	4.11E-06	3.71E-07	5.36E-06	3.33E-06	3.33E-06	1.65E-06
1193	257794.63	4084244.66	4.33E-06	6.26E-05	4.62E-05	4.62E-05	2.57E-05	6.57E-07	9.54E-06	7.21E-06	7.21E-06	3.96E-06	3.57E-07	5.16E-06	3.21E-06	3.21E-06	1.59E-06
1194	257770.29	4084245.66	4.18E-06	6.04E-05	4.45E-05	4.45E-05	2.48E-05	6.34E-07	9.20E-06	6.95E-06	6.95E-06	3.82E-06	3.44E-07	4.98E-06	3.09E-06	3.09E-06	1.53E-06
1195	257745.96	4084246.66	4.03E-06	5.83E-05	4.30E-05	4.30E-05	2.40E-05	6.12E-07	8.89E-06	6.71E-06	6.71E-06	3.69E-06	3.32E-07	4.81E-06	2.99E-06	2.99E-06	1.48E-06
1196	257721.63	4084247.66	3.90E-06	5.64E-05	4.15E-05	4.15E-05	2.32E-05	5.92E-07	8.59E-06	6.49E-06	6.49E-06	3.57E-06	3.21E-07	4.65E-06	2.89E-06	2.89E-06	1.43E-06
1197	257697.3	4084248.66	3.77E-06	5.45E-05	4.02E-05	4.02E-05	2.24E-05	5.72E-07	8.31E-06	6.28E-06	6.28E-06	3.45E-06	3.11E-07	4.50E-06	2.79E-06	2.79E-06	1.38E-06
1198	257672.97	4084249.66	3.65E-06	5.28E-05	3.89E-05	3.89E-05	2.17E-05	5.54E-07	8.05E-06	6.08E-06	6.08E-06	3.34E-06	3.01E-07	4.36E-06	2.71E-06	2.71E-06	1.34E-06
1199	257648.64	4084250.66	3.54E-06	5.12E-05	3.77E-05	3.77E-05	2.10E-05	5.37E-07	7.80E-06	5.89E-06	5.89E-06	3.24E-06	2.92E-07	4.22E-06	2.62E-06	2.62E-06	1.30E-06
1200	257624.3	4084251.66	3.44E-06	4.97E-05	3.66E-05	3.66E-05	2.04E-05	5.22E-07	7.57E-06	5.72E-06	5.72E-06	3.14E-06	2.83E-07	4.10E-06	2.54E-06	2.54E-06	1.26E-06
1201	257599.97	4084252.66	3.34E-06	4.82E-05	3.56E-05	3.56E-05	1.98E-05	5.06E-07	7.35E-06	5.55E-06	5.55E-06	3.05E-06	2.75E-07	3.98E-06	2.47E-06	2.47E-06	1.22E-06
1202	257575.64	4084253.66	3.24E-06	4.69E-05	3.46E-05	3.46E-05	1.93E-05	4.92E-07	7.14E-06	5.40E-06	5.40E-06	2.97E-06	2.67E-07	3.86E-06	2.40E-06	2.40E-06	1.19E-06
1203	257551.31	4084254.66	3.15E-06	4.56E-05	3.36E-05	3.36E-05	1.87E-05	4.79E-07	6.95E-06	5.25E-06	5.25E-06	2.89E-06	2.60E-07	3.76E-06	2.34E-06	2.34E-06	1.16E-06
1204	257526.98	4084255.66	3.07E-06	4.44E-05	3.27E-05	3.27E-05	1.82E-05	4.66E-07	6.76E-06	5.11E-06	5.11E-06	2.81E-06	2.53E-07	3.66E-06	2.27E-06	2.27E-06	1.13E-06
1205	258344.15	4084031.13	6.51E-06	9.41E-05	6.94E-05	6.94E-05	3.87E-05	9.87E-07	1.43E-05	1.08E-05	1.08E-05	5.95E-06	5.36E-07	7.76E-06	4.82E-06	4.82E-06	2.38E-06
1206	258366.58	4084039.43	6.93E-06	1.00E-04	7.39E-05	7.39E-05	4.12E-05	1.05E-06	1.53E-05	1.15E-05	1.15E-05	6.34E-06	5.71E-07	8.26E-06	5.13E-06	5.13E-06	2.54E-06
1207	258389.02	4084047.74	7.38E-06	1.07E-04	7.87E-05	7.87E-05	4.39E-05	1.12E-06	1.63E-05	1.23E-05	1.23E-05	6.75E-06	6.08E-07	8.80E-06	5.47E-06	5.47E-06	2.71E-06
1208	258411.45	4084056.04	7.86E-06	1.14E-04	8.38E-05	8.38E-05	4.67E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.19E-06	6.48E-07	9.37E-06	5.82E-06	5.82E-06	2.88E-06
1209	258433.89	4084064.35	8.37E-06	1.21E-04	8.93E-05	8.93E-05	4.98E-05	1.27E-06	1.84E-05	1.39E-05	1.39E-05	7.66E-06	6.90E-07	9.98E-06	6.20E-06	6.20E-06	3.07E-06
1210	258456.32	4084072.66	8.91E-06	1.29E-04	9.50E-05	9.50E-05	5.30E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.15E-06	7.34E-07	1.06E-05	6.60E-06	6.60E-06	3.27E-06
1211	258478.76	4084080.96	9.47E-06	1.37E-04	1.01E-04	1.01E-04	5.63E-05	1.44E-06	2.09E-05	1.58E-05	1.58E-05	8.67E-06	7.81E-07	1.13E-05	7.01E-06	7.01E-06	3.47E-06
1212	258501.19	4084089.27	1.01E-05	1.45E-04	1.07E-04	1.07E-04	5.98E-05	1.53E-06	2.22E-05	1.67E-05	1.67E-05	9.20E-06	8.29E-07	1.20E-05	7.45E-06	7.45E-06	3.69E-06
1213	258523.63	4084097.58	1.07E-05	1.54E-04	1.14E-04	1.14E-04	6.34E-05	1.62E-06	2.35E-05	1.77E-05	1.77E-05	9.75E-06	8.79E-07	1.27E-05	7.89E-06	7.89E-06	3.91E-06
1214	258546.06	4084105.88	1.13E-05	1.63E-04	1.20E-04	1.20E-04	6.70E-05	1.71E-06	2.49E-05	1.88E-05	1.88E-05	1.03E-05	9.30E-07	1.34E-05	8.35E-06	8.35E-06	4.13E-06
1215	258568.5	4084114.19	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.08E-05	1.81E-06	2.63E-05	1.98E-05	1.98E-05	1.09E-05	9.82E-07	1.42E-05	8.82E-06	8.82E-06	4.37E-06
1216	258590.93	4084122.5	1.26E-05	1.82E-04	1.34E-04	1.34E-04	7.46E-05	1.91E-06	2.77E-05	2.09E-05	2.09E-05	1.15E-05	1.04E-06	1.50E-05	9.30E-06	9.30E-06	4.60E-06
1217	258613.37	4084130.8	1.32E-05	1.91E-04	1.41E-04	1.41E-04	7.85E-05	2.00E-06	2.91E-05	2.20E-05	2.20E-05	1.21E-05	1.09E-06	1.57E-05	9.78E-06	9.78E-06	4.84E-06
1218	258635.8	4084139.11	1.39E-05	2.00E-04	1.48E-04	1.48E-04	8.23E-05	2.10E-06	3.05E-05	2.31E-05	2.31E-05	1.27E-05	1.14E-06	1.65E-05	1.03E-05	1.03E-05	5.08E-06
1219	258658.24	4084147.41	1.45E-05	2.10E-04	1.55E-04	1.55E-04	8.62E-05	2.20E-06	3.19E-05	2.41E-05	2.41E-05	1.33E-05	1.20E-06	1.73E-05	1.07E-05	1.07E-05	5.32E-06
1220	258680.67	4084155.72	1.51E-05	2.19E-04	1.61E-04	1.61E-04	9.00E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.80E-05	1.12E-05	1.12E-05	5.55E-06
1221	258703.11	4084164.03	1.58E-05	2.28E-04	1.68E-04	1.68E-04	9.37E-05	2.39E-06	3.47E-05	2.62E-05	2.62E-05	1.44E-05	1.30E-06	1.88E-05	1.17E-05	1.17E-05	5.78E-06
1222	258725.54	4084172.33	1.64E-05	2.37E-04	1.75E-04	1.75E-04	9.73E-05	2.48E-06	3.61E-05	2.72E-05	2.72E-05	1.50E-05	1.35E-06	1.95E-05	1.21E-05	1.21E-05	6.00E-06
1223	258747.98	4084180.64	1.70E-05	2.45E-04	1.81E-04	1.81E-04	1.01E-04	2.57E-06	3.74E-05	2.82E-05	2.82E-05	1.55E-05	1.40E-06	2.02E-05	1.26E-05	1.26E-05	6.22E-06
1224	258770.41	4084188.95	1.75E-05	2.53E-04	1.87E-04	1.87E-04	1.04E-04	2.66E-06	3.86E-05	2.92E-05	2.92E-05	1.60E-05	1.44E-06	2.09E-05	1.30E-05	1.30E-05	6.42E-06
1225	258792.85	4084197.25	1.80E-05	2.61E-04	1.92E-04	1.92E-04	1.07E-04	2.74E-06	3.98E-05	3.00E-05	3.00E-05	1.65E-05	1.49E-06	2.15E-05	1.34E-05	1.34E-05	6.62E-06
1226	258815.28	4084205.56	1.85E-05	2.68E-04	1.98E-04	1.98E-04	1.10E-04	2.81E-06	4.09E-05	3.09E-05	3.09E-05	1.70E-05	1.53E-06	2.21E-05	1.37E-05	1.37E-05	6.80E-06
1227	258837.72	4084213.87	1.90E-05	2.75E-04	2.02E-04	2.02E-04	1.13E-04	2.88E-06	4.19E-05	3.16E-05	3.16E-05	1.74E-05	1.57E-06	2.26E-05	1.41E-05	1.41E-05	6.96E-06
1228	258860.15	4084222.17	1.94E-05	2.80E-04	2.07E-04	2.07E-04	1.15E-04	2.94E-06	4.27E-05	3.23E-05	3.23E-05	1.77E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.11E-06
1229	258882.59	4084230.48	1.97E-05	2.85E-04	2.10E-04	2.10E-04	1.17E-04	2.99E-06	4.35E-05	3.28E-05	3.28E-05	1.80E-05	1.63E-06	2.35E-05	1.46E-05	1.46E-05	7.23E-06
1230	258905.02	4084238.78	2.00E-05	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.04E-06	4.41E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.39E-05	1.48E-05	1.48E-05	7.34E-06
1231	258927.46	4084247.09	2.02E-05	2.93E-04	2.16E-04	2.16E-04	1.20E-04	3.07E-06	4.46E-05	3.37E-05	3.37E-05	1.85E-05	1.67E-06	2.41E-05	1.50E-05	1.50E-05	7.42E-06
1232	258949.89	4084255.4	2.04E-05	2.95E-04	2.17E-04	2.17E-04	1.21E-04	3.09E-06	4.49E-05	3.39E-05	3.39E-05	1.86E-05	1.68E-06	2.43E-05	1.51E-05	1.51E-05	7.47E-06
1233	258982.19	4084285.5	2.11E-05	3.05E-04	2.25E-04	2.25E-04	1.25E-04	3.20E-06	4.64E-05	3.51E-05	3.51E-05	1.93E-05	1.74E-06	2.51E-05	1.56E-05	1.56E-05	7.72E-06
1234	258992.05	4084307.3	2.16E-05	3.13E-04	2.31E-04	2.31E-04	1.29E-04	3.28E-06	4.76E-05	3.60E-05	3.60E-05	1.98E-05	1.78E-06	2.58E-05	1.60E-05	1.60E-05	7.93E-06
1235	259001.91	4084329.09	2.21E-05	3.19E-04	2.35E-04	2.35E-04	1.31E-04	3.35E-06	4.87E-05	3.68E-05	3.68E-05	2.02E-05	1.82E-06	2.63E-05	1.64E-05	1.64E-05	8.10E-06
1236	259011.77	4084350.89	2.25E-05	3.25E-04	2.40E-04	2.40E-04	1.34E-04	3.41E-06	4.95E-05	3.74E-05	3.74E-05	2.06E-05	1.85E-06	2.68E-05	1.66E-05	1.66E-05	8.24E-06
1237	259021.63	4084372.69	2.28E-05	3.29E-04	2.43E-04	2.43E-04	1.35E-04	3.46E-06	5.02E-05	3.79E-05	3.79E-05	2.08E-05	1.88E-06	2.72E-05	1.69E-05	1.69E-05	8.35E-06
1238	259031.5	4084394.48	2.30E-05	3.32E-04	2.45E-04	2.45E-04	1.37E-04	3.49E-06	5.06E-05	3.83E-05	3.83E-05	2.10E-05	1.89E-06	2.74E-05	1.70E-05	1.70E-05	8.42E-06
1239	259041.36	4084416.28	2.31E-05	3.34E-04	2.46E-04	2.46E-04	1.37E-04	3.50E-06	5.09E-05	3.84E-05	3.84E-05	2.11E-05	1.90E-06	2.75E-05	1.71E-05	1.71E-05	8.46E-06
1240	259051.22	4084438.08	2.31E-05	3.34E-04	2.46E-04	2.46E-04	1.37E-04	3.50E-06	5.09E-05	3.84E-05	3.84E-05	2.11E-05	1.90E-06	2.75E-05	1.71E-05	1.71E-05	8.46E-06
1241	259061.08	4084459.87	2.30E-05	3.32E-04	2.45E-04	2.45E-04	1.37E-04	3.49E-06	5.06E-05	3.82E-05	3.82E-05	2.10E-05	1.89E-06	2.74E-05	1.70E-05	1.70E-05	8.42E-06
1242	259070.94	4084481.67	2.28E-05	3.29E-04	2.43E-04	2.43E-04	1.35E-04	3.46E-06	5.02E-05	3.79E-05	3.79E-05	2.08E-05	1.88E-06	2.72E-05	1.69E-05	1.69E-05	8.35E-06
1243	259080.8	4084503.47	2.25E-05	3.25E-04	2.40E-04	2.40E-04	1.34E-04	3.41E-06	4.95E-05	3.74E-05	3.74E-05	2.06E-05	1.85E-06	2.68E-05	1.66E-05	1.66E-05	8.24E-06
1244	259090.66	4084525.26	2.21E-05	3.19E-04	2.35E-04	2.35E-04	1.31E-04	3.35E-06	4.87E-05	3.68E-05	3.68E-05	2.02E-05	1.82E-06	2.63E-05	1.64E-05	1.64E-05	8.10E-06
1245	259100.52	4084547.06	2.16E-05	3.13E-04	2.31E-04	2.31E-04	1.29E-04	3.28E-06	4.76E-05	3.60E-05	3.60E-05	1.98E-05	1.78E-06	2.58E-05	1.60E-05	1.60E-05	7.93E-06
1246	259110.38	4084568.86	2.11E-05	3.05E-04	2.25E-04	2.25E-04	1.25E-04	3.20E-06	4.65E-05	3.51E-05	3.51E-05	1.93E-05	1.74E-06	2.51E-05	1.56E-05	1.56E-05	7.73E-06
1247	259120.24	4084590.65	2.05E-05	2.96E-04	2.18E-04	2.18E-04	1.22E-04	3.11E-06	4.51E-05	3.41E-05	3.41E-05	1.87E-05	1.69E-06	2.44E-05	1.52E-05	1.52E-05	7.51E-06
1248	259130.1	4084612.45	1.98E-05	2.87E-04	2.11E-04	2.11E-04	1.18E-04	3.01E-06	4.37E-05	3.30E-05	3.30E-05	1.81E-05	1.63E-06	2.36E-05	1.47E-05	1.47E-05	7.27E-06
1249	259139.97	4084634.25	1.91E-05	2.77E-04	2.04E-04	2.04E-04	1.14E-04	2.90E-06	4.22E-05	3.19E-05	3.19E-05	1.75E-05	1.58E-06	2.28E-05	1.42E-05	1.42E-05	7.01E-06
1250	259149.83	4084656.04	1.84E-05	2.66E-04	1.96E-04	1.96E-04	1.09E-04	2.79E-06	4.06E-05	3.06E-05	3.06E-05	1.68E-05	1.52E-06	2.20E-05	1.36E-05	1.36E-05	6.75E-06
1251	259159.69	4084677.84	1.77E-05	2.56E-04	1.89E-04	1.89E-04	1.05E-04	2.69E-06	3.90E-05	2.95E-05	2.95E-05	1.62E-05	1.46E-06	2.11E-05	1.31E-05	1.31E-05	6.49E-06
1252	259169.55	4084699.64	1.69E-05	2.45E-04	1.81E-04	1.81E-04	1.01E-04	2.57E-06	3.73E-05	2.82E-05	2.82E-05	1.55E-05	1.40E-06	2.02E-05	1.25E-05	1.25E-05	6.21E-06
1253	259179.41	4084721.43	1.61E-05	2.33E-04	1.72E-04	1.72E-04	9.59E-05	2.45E-06	3.55E-05	2.68E-05	2.68E-05	1.48E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.91E-06
1254	259189.27	4084743.23	1.54E-05	2.22E-04	1.64E-04	1.64E-04	9.13E-05	2.33E-06	3.38E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.83E-05	1.14E-05	1.14E-05	5.63E-06
1255	259199.13	4084765.03	1.46E-05	2.11E-04	1.56E-04	1.56E-04	8.69E-05	2.22E-06	3.22E-05	2.43E-05	2.43E-05	1.34E-05	1.20E-06	1.74E-05	1.08E-05	1.08E-05	5.36E-06
1256	259208.99	4084786.82	1.38E-05	2.00E-04	1.48E-04	1.48E-04	8.23E-05	2.10E-06	3.05E-05	2.30E-05	2.30E-05	1.27E-05	1.14E-06	1.65E-05	1.03E-05	1.03E-05	5.08E-06

1257	259218.85	4084808.62	1.31E-05	1.90E-04	1.40E-04	1.40E-04	7.81E-05	2.00E-06	2.90E-05	2.19E-05	2.19E-05	1.20E-05	1.08E-06	1.57E-05	9.73E-06	9.73E-06	4.82E-06
1258	259228.71	4084830.42	1.25E-05	1.81E-04	1.33E-04	1.33E-04	7.42E-05	1.90E-06	2.75E-05	2.08E-05	2.08E-05	1.14E-05	1.03E-06	1.49E-05	9.25E-06	9.25E-06	4.58E-06
1259	259238.58	4084852.21	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.06E-05	1.80E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.79E-07	1.42E-05	8.79E-06	8.79E-06	4.35E-06
1260	259248.44	4084874.01	1.13E-05	1.63E-04	1.20E-04	1.20E-04	6.71E-05	1.71E-06	2.49E-05	1.88E-05	1.88E-05	1.03E-05	9.31E-07	1.35E-05	8.36E-06	8.36E-06	4.14E-06
1261	258321.71	4084022.82	6.11E-06	8.84E-05	6.52E-05	6.52E-05	3.63E-05	9.28E-07	1.35E-05	1.02E-05	1.02E-05	5.59E-06	5.04E-07	7.29E-06	4.53E-06	4.53E-06	2.24E-06
1262	258297.38	4084023.82	5.88E-06	8.50E-05	6.27E-05	6.27E-05	3.49E-05	8.92E-07	1.30E-05	9.79E-06	9.79E-06	5.38E-06	4.85E-07	7.01E-06	4.35E-06	4.35E-06	2.16E-06
1263	258273.05	4084024.82	5.66E-06	8.18E-05	6.03E-05	6.03E-05	3.36E-05	8.59E-07	1.25E-05	9.42E-06	9.42E-06	5.18E-06	4.66E-07	6.75E-06	4.19E-06	4.19E-06	2.07E-06
1264	258248.72	4084025.82	5.44E-06	7.87E-05	5.80E-05	5.80E-05	3.23E-05	8.26E-07	1.20E-05	9.06E-06	9.06E-06	4.98E-06	4.49E-07	6.49E-06	4.03E-06	4.03E-06	2.00E-06
1265	258224.38	4084026.82	5.24E-06	7.57E-05	5.58E-05	5.58E-05	3.11E-05	7.95E-07	1.15E-05	8.71E-06	8.71E-06	4.79E-06	4.32E-07	6.24E-06	3.88E-06	3.88E-06	1.92E-06
1266	258200.05	4084027.82	5.03E-06	7.28E-05	5.37E-05	5.37E-05	2.99E-05	7.64E-07	1.11E-05	8.38E-06	8.38E-06	4.61E-06	4.15E-07	6.00E-06	3.73E-06	3.73E-06	1.85E-06
1267	258175.72	4084028.82	4.84E-06	7.00E-05	5.16E-05	5.16E-05	2.88E-05	7.35E-07	1.07E-05	8.06E-06	8.06E-06	4.43E-06	3.99E-07	5.77E-06	3.59E-06	3.59E-06	1.77E-06
1268	258151.39	4084029.82	4.65E-06	6.73E-05	4.96E-05	4.96E-05	2.77E-05	7.06E-07	1.03E-05	7.75E-06	7.75E-06	4.26E-06	3.84E-07	5.55E-06	3.45E-06	3.45E-06	1.71E-06
1269	258127.06	4084030.82	4.47E-06	6.47E-05	4.77E-05	4.77E-05	2.66E-05	6.79E-07	9.86E-06	7.45E-06	7.45E-06	4.09E-06	3.69E-07	5.33E-06	3.31E-06	3.31E-06	1.64E-06
1270	258102.73	4084031.82	4.30E-06	6.22E-05	4.58E-05	4.58E-05	2.56E-05	6.52E-07	9.47E-06	7.16E-06	7.16E-06	3.93E-06	3.54E-07	5.13E-06	3.18E-06	3.18E-06	1.58E-06
1271	258078.39	4084032.82	4.13E-06	5.97E-05	4.40E-05	4.40E-05	2.46E-05	6.27E-07	9.10E-06	6.88E-06	6.88E-06	3.78E-06	3.41E-07	4.93E-06	3.06E-06	3.06E-06	1.51E-06
1272	258054.06	4084033.82	3.97E-06	5.74E-05	4.23E-05	4.23E-05	2.36E-05	6.02E-07	8.75E-06	6.61E-06	6.61E-06	3.63E-06	3.27E-07	4.73E-06	2.94E-06	2.94E-06	1.45E-06
1273	258029.73	4084034.82	3.82E-06	5.52E-05	4.07E-05	4.07E-05	2.27E-05	5.79E-07	8.41E-06	6.35E-06	6.35E-06	3.49E-06	3.15E-07	4.55E-06	2.83E-06	2.83E-06	1.40E-06
1274	258005.4	4084035.82	3.67E-06	5.31E-05	3.91E-05	3.91E-05	2.18E-05	5.57E-07	8.09E-06	6.11E-06	6.11E-06	3.36E-06	3.03E-07	4.38E-06	2.72E-06	2.72E-06	1.35E-06
1275	257981.07	4084036.82	3.53E-06	5.11E-05	3.77E-05	3.77E-05	2.10E-05	5.36E-07	7.79E-06	5.88E-06	5.88E-06	3.23E-06	2.91E-07	4.21E-06	2.62E-06	2.62E-06	1.30E-06
1276	257956.73	4084037.82	3.41E-06	4.93E-05	3.63E-05	3.63E-05	2.02E-05	5.17E-07	7.50E-06	5.67E-06	5.67E-06	3.12E-06	2.81E-07	4.06E-06	2.52E-06	2.52E-06	1.25E-06
1277	257932.4	4084038.82	3.29E-06	4.75E-05	3.50E-05	3.50E-05	1.95E-05	4.99E-07	7.24E-06	5.47E-06	5.47E-06	3.01E-06	2.71E-07	3.92E-06	2.43E-06	2.43E-06	1.20E-06
1278	257908.07	4084039.82	3.18E-06	4.60E-05	3.39E-05	3.39E-05	1.89E-05	4.82E-07	7.00E-06	5.29E-06	5.29E-06	2.91E-06	2.62E-07	3.79E-06	2.35E-06	2.35E-06	1.16E-06
1279	257883.74	4084040.83	3.08E-06	4.45E-05	3.28E-05	3.28E-05	1.83E-05	4.67E-07	6.78E-06	5.12E-06	5.12E-06	2.82E-06	2.54E-07	3.67E-06	2.28E-06	2.28E-06	1.13E-06
1280	257859.41	4084041.83	2.99E-06	4.32E-05	3.18E-05	3.18E-05	1.77E-05	4.53E-07	6.58E-06	4.97E-06	4.97E-06	2.73E-06	2.46E-07	3.56E-06	2.21E-06	2.21E-06	1.09E-06
1281	257835.08	4084042.83	2.90E-06	4.20E-05	3.09E-05	3.09E-05	1.72E-05	4.40E-07	6.39E-06	4.83E-06	4.83E-06	2.66E-06	2.39E-07	3.46E-06	2.15E-06	2.15E-06	1.06E-06
1282	257810.74	4084043.83	2.82E-06	4.08E-05	3.01E-05	3.01E-05	1.68E-05	4.29E-07	6.22E-06	4.70E-06	4.70E-06	2.58E-06	2.33E-07	3.37E-06	2.09E-06	2.09E-06	1.04E-06
1283	257786.41	4084044.83	2.75E-06	3.98E-05	2.94E-05	2.94E-05	1.64E-05	4.18E-07	6.07E-06	4.58E-06	4.58E-06	2.52E-06	2.27E-07	3.28E-06	2.04E-06	2.04E-06	1.01E-06
1284	257762.08	4084045.83	2.69E-06	3.89E-05	2.87E-05	2.87E-05	1.60E-05	4.08E-07	5.93E-06	4.48E-06	4.48E-06	2.46E-06	2.22E-07	3.21E-06	1.99E-06	1.99E-06	9.86E-07
1285	257737.75	4084046.83	2.63E-06	3.81E-05	2.81E-05	2.81E-05	1.56E-05	4.00E-07	5.80E-06	4.38E-06	4.38E-06	2.41E-06	2.17E-07	3.14E-06	1.95E-06	1.95E-06	9.65E-07
1286	257713.42	4084047.83	2.58E-06	3.73E-05	2.75E-05	2.75E-05	1.53E-05	3.91E-07	5.68E-06	4.29E-06	4.29E-06	2.36E-06	2.12E-07	3.07E-06	1.91E-06	1.91E-06	9.45E-07
1287	257689.08	4084048.83	2.53E-06	3.66E-05	2.70E-05	2.70E-05	1.50E-05	3.84E-07	5.57E-06	4.21E-06	4.21E-06	2.31E-06	2.08E-07	3.01E-06	1.87E-06	1.87E-06	9.27E-07
1288	257664.75	4084049.83	2.48E-06	3.59E-05	2.64E-05	2.64E-05	1.47E-05	3.76E-07	5.46E-06	4.13E-06	4.13E-06	2.27E-06	2.04E-07	2.96E-06	1.84E-06	1.84E-06	9.09E-07
1289	257640.42	4084050.83	2.43E-06	3.52E-05	2.59E-05	2.59E-05	1.45E-05	3.69E-07	5.36E-06	4.05E-06	4.05E-06	2.23E-06	2.00E-07	2.90E-06	1.80E-06	1.80E-06	8.92E-07
1290	257616.09	4084051.83	2.39E-06	3.45E-05	2.54E-05	2.54E-05	1.42E-05	3.62E-07	5.26E-06	3.97E-06	3.97E-06	2.18E-06	1.97E-07	2.84E-06	1.77E-06	1.77E-06	8.74E-07
1291	257591.76	4084052.83	2.34E-06	3.38E-05	2.49E-05	2.49E-05	1.39E-05	3.55E-07	5.15E-06	3.89E-06	3.89E-06	2.14E-06	1.93E-07	2.79E-06	1.73E-06	1.73E-06	8.57E-07
1292	257567.43	4084053.83	2.29E-06	3.31E-05	2.44E-05	2.44E-05	1.36E-05	3.47E-07	5.04E-06	3.81E-06	3.81E-06	2.09E-06	1.89E-07	2.73E-06	1.70E-06	1.70E-06	8.39E-07
1293	257543.09	4084054.83	2.24E-06	3.24E-05	2.39E-05	2.39E-05	1.33E-05	3.40E-07	4.93E-06	3.73E-06	3.73E-06	2.05E-06	1.85E-07	2.67E-06	1.66E-06	1.66E-06	8.21E-07
1294	257518.76	4084055.83	2.19E-06	3.17E-05	2.34E-05	2.34E-05	1.30E-05	3.32E-07	4.83E-06	3.65E-06	3.65E-06	2.00E-06	1.81E-07	2.61E-06	1.62E-06	1.62E-06	8.03E-07
1295	258336.22	4083831.4	3.87E-06	5.59E-05	4.12E-05	4.12E-05	2.30E-05	5.87E-07	8.52E-06	6.44E-06	6.44E-06	3.54E-06	3.19E-07	4.61E-06	2.86E-06	2.86E-06	1.42E-06
1296	258358.94	4083839.81	4.07E-06	5.88E-05	4.34E-05	4.34E-05	2.42E-05	6.17E-07	8.96E-06	6.77E-06	6.77E-06	3.72E-06	3.35E-07	4.85E-06	3.01E-06	3.01E-06	1.49E-06
1297	258381.66	4083848.22	4.28E-06	6.20E-05	4.57E-05	4.57E-05	2.55E-05	6.50E-07	9.44E-06	7.13E-06	7.13E-06	3.92E-06	3.53E-07	5.11E-06	3.17E-06	3.17E-06	1.57E-06
1298	258404.38	4083856.64	4.52E-06	6.54E-05	4.82E-05	4.82E-05	2.69E-05	6.86E-07	9.96E-06	7.52E-06	7.52E-06	4.14E-06	3.73E-07	5.39E-06	3.35E-06	3.35E-06	1.66E-06
1299	258427.1	4083865.05	4.77E-06	6.91E-05	5.09E-05	5.09E-05	2.84E-05	7.25E-07	1.05E-05	7.95E-06	7.95E-06	4.37E-06	3.94E-07	5.69E-06	3.54E-06	3.54E-06	1.75E-06
1300	258449.82	4083873.46	5.05E-06	7.30E-05	5.38E-05	5.38E-05	3.00E-05	7.66E-07	1.11E-05	8.40E-06	8.40E-06	4.62E-06	4.16E-07	6.02E-06	3.74E-06	3.74E-06	1.85E-06
1301	258472.54	4083881.87	5.34E-06	7.73E-05	5.70E-05	5.70E-05	3.18E-05	8.11E-07	1.18E-05	8.90E-06	8.90E-06	4.89E-06	4.41E-07	6.37E-06	3.96E-06	3.96E-06	1.96E-06
1302	258495.26	4083890.28	5.66E-06	8.18E-05	6.03E-05	6.03E-05	3.36E-05	8.58E-07	1.25E-05	9.41E-06	9.41E-06	5.18E-06	4.66E-07	6.74E-06	4.19E-06	4.19E-06	2.07E-06
1303	258517.98	4083898.69	5.99E-06	8.66E-05	6.38E-05	6.38E-05	3.56E-05	9.08E-07	1.32E-05	9.96E-06	9.96E-06	5.48E-06	4.93E-07	7.14E-06	4.43E-06	4.43E-06	2.19E-06
1304	258540.7	4083907.11	6.33E-06	9.16E-05	6.75E-05	6.75E-05	3.76E-05	9.61E-07	1.40E-05	1.05E-05	1.05E-05	5.79E-06	5.22E-07	7.55E-06	4.69E-06	4.69E-06	2.32E-06
1305	258563.42	4083915.52	6.70E-06	9.69E-05	7.14E-05	7.14E-05	3.98E-05	1.02E-06	1.48E-05	1.11E-05	1.11E-05	6.13E-06	5.52E-07	7.98E-06	4.96E-06	4.96E-06	2.45E-06
1306	258586.14	4083923.93	7.08E-06	1.02E-04	7.54E-05	7.54E-05	4.21E-05	1.07E-06	1.56E-05	1.18E-05	1.18E-05	6.47E-06	5.83E-07	8.44E-06	5.24E-06	5.24E-06	2.59E-06
1307	258608.86	4083932.34	7.47E-06	1.08E-04	7.96E-05	7.96E-05	4.44E-05	1.13E-06	1.65E-05	1.24E-05	1.24E-05	6.83E-06	6.16E-07	8.90E-06	5.53E-06	5.53E-06	2.74E-06
1308	258631.58	4083940.75	7.88E-06	1.14E-04	8.40E-05	8.40E-05	4.68E-05	1.20E-06	1.74E-05	1.31E-05	1.31E-05	7.21E-06	6.49E-07	9.39E-06	5.83E-06	5.83E-06	2.89E-06
1309	258654.3	4083949.17	8.29E-06	1.20E-04	8.84E-05	8.84E-05	4.93E-05	1.26E-06	1.83E-05	1.38E-05	1.38E-05	7.59E-06	6.84E-07	9.89E-06	6.14E-06	6.14E-06	3.04E-06
1310	258677.02	4083957.58	8.72E-06	1.26E-04	9.30E-05	9.30E-05	5.18E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.98E-06	7.19E-07	1.04E-05	6.46E-06	6.46E-06	3.20E-06
1311	258699.74	4083965.99	9.16E-06	1.32E-04	9.76E-05	9.76E-05	5.44E-05	1.39E-06	2.02E-05	1.52E-05	1.52E-05	8.38E-06	7.55E-07	1.09E-05	6.78E-06	6.78E-06	3.36E-06
1312	258722.46	4083974.4	9.60E-06	1.39E-04	1.02E-04	1.02E-04	5.71E-05	1.46E-06	2.12E-05	1.60E-05	1.60E-05	8.78E-06	7.91E-07	1.14E-05	7.11E-06	7.11E-06	3.52E-06
1313	258745.18	4083982.81	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.97E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.19E-06	8.28E-07	1.20E-05	7.44E-06	7.44E-06	3.68E-06
1314	258767.9	4083991.22	1.05E-05	1.52E-04	1.12E-04	1.12E-04	6.23E-05	1.59E-06	2.31E-05	1.75E-05	1.75E-05	9.60E-06	8.64E-07	1.25E-05	7.77E-06	7.77E-06	3.84E-06
1315	258790.62	4083999.64	1.09E-05	1.58E-04	1.16E-04	1.16E-04	6.49E-05	1.66E-06	2.41E-05	1.82E-05	1.82E-05	1.00E-05	9.01E-07	1.30E-05	8.09E-06	8.09E-06	4.01E-06
1316	258813.34	4084008.05	1.14E-05	1.64E-04	1.21E-04	1.21E-04	6.75E-05	1.72E-06	2.50E-05	1.89E-05	1.89E-05	1.04E-05	9.37E-07	1.35E-05	8.41E-06	8.41E-06	4.17E-06
1317	258836.06	4084016.46	1.18E-05	1.71E-04	1.26E-04	1.26E-04	7.01E-05	1.79E-06	2.60E-05	1.96E-05	1.96E-05	1.08E-05	9.72E-07	1.41E-05	8.73E-06	8.73E-06	4.32E-06
1318	258858.78	4084024.87	1.22E-05	1.77E-04	1.30E-04	1.30E-04	7.26E-05	1.85E-06	2.69E-05	2.03E-05	2.03E-05	1.12E-05	1.01E-06	1.46E-05	9.04E-06	9.04E-06	4.47E-06
1319	258881.5	4084033.28	1.26E-05	1.82E-04	1.34E-04	1.34E-04	7.49E-05	1.91E-06	2.78E-05	2.10E-05	2.10E-05	1.15E-05	1.04E-06	1.50E-05	9.34E-06	9.34E-06	4.62E-06
1320	258904.22	4084041.7	1.30E-05	1.88E-04	1.39E-04	1.39E-04	7.72E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.62E-06	9.62E-06	4.76E-06
1321	258926.94	4084050.11	1.34E-05	1.93E-04	1.42E-04	1.42E-04	7.94E-05	2.03E-06	2.94E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.89E-06	9.89E-06	4.90E-06
1322	258949.66	4084058.52	1.37E-05	1.98E-04	1.46E-04	1.46E-04	8.12E-05	2.07E-06	3.01E-05	2.27E-05	2.27E-05	1.25E-05	1.13E-06	1.63E-05	1.01E-05	1.01E-05	5.01E-06
1323	258972.38	4084066.93	1.40E-05	2.02E-04	1.49E-04	1.49E-04	8.30E-05	2.12E-06	3.08E-05	2.33E-05	2.33E-05	1.28E-05	1.15E-06	1.67E-05	1.03E-05	1.03E-05	5.12E-06
1324	258995.1	4084075.34	1.42E-05	2.06E-04	1.52E-04	1.52E-04	8.47E-05	2.16E-06	3.14E-05	2.37E-05	2.37E-05	1.30E-05	1.17E-06	1.70E-05	1.06E-05	1.06E-05	5.22E-06
1325	259017.82	4084083.75	1.45E-05	2.10E-04	1.55E-04	1.55E-04	8.62E-05	2.20E-06	3.19E-05	2.41E-05	2.41E-05	1.33E-05	1.19E-06	1.73E-05	1.07E-05	1.07E-05	5.31E-06
1326	259040.54	4084092.17	1.47E-05	2.13E-04	1.57E-04	1.57E-04	8.74E-05	2.23E-06	3.24E-05	2.45E-05	2.45E-05	1.35E-05	1.21E-06	1.75E-05	1.09E-05	1.09E-05	5.39E-06
1327	259063.26	4084100.58	1.49E-05	2.15E-04	1.59E-04	1.59E-04	8.84E-05	2.26E-06	3.28E-05	2.48E-05	2.48E-05	1.36E-05	1.23E-06	1.77E-05	1.10E-05	1.10E-05	5.45E-06
1328	259085.98	4084108.99	1.50E-05	2.17E-04	1.60E-04	1.60E-04	8.92E-05	2.28E-06	3.31E-05	2.50E-05	2.50E-05	1.37E-05	1.24E-06	1.79E-05	1.11E-05	1.11E-05	5.50E-06
1329	259118.68	4084139.48	1.55E-05	2.25E-04	1.66E-04	1.66E-04	9.24E-05	2.36E-06	3.42E-05	2.59E-05	2.59E-05	1.42E-05	1.28E-06	1.85E-05	1.15E-05	1.15E-05	5.70E-06
1330	259128.67	4084161.55	1.59E-05	2.31E-04	1.70E-04	1.70E-04	9.48E-05	2.42E-06	3.51E-05	2.65E-05	2.65E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.85E-06
1331	259138.66	4084183.62	1.63E-05	2.36E-04	1.74E-04	1.74E-04	9.70E-05	2.48E-06	3.59E-05	2.72E-05	2.72E-05	1.49E-05	1.34E-06	1.94E-05	1.21E-05	1.21E-05	5.98E-06
1332	259148.64	4084205.7	1.66E-05	2.41E-04	1.77E-04	1.77E-04	9.89E-05	2.52E-06	3.66E-05	2.77E-05	2.77E-05	1.52E-05	1.37E-06	1.98E-05	1.23E-05	1.23E-05	6.10E-06
1333	259158.63	4084227.77	1.69E-05	2.44E-04	1.80E-04	1.80E-04	1.00E-04	2.56E-06	3.72E-05	2.81E-05	2.81E-05	1.55E-05	1.39E-06	2.01E-05	1.25E-05	1.25E-05	6.19E-06
1334	259168.61	4084249.84	1.71E-05	2.47E-04	1.82E-04	1.82E-04	1.02E-04	2.60E-06	3.77E-05	2.85E-05	2.85E-05	1.57E-05	1.41E-06	2.04E-05	1.27E-05	1.27E-05	6.27E-06
1335	259178.6	4084271.92	1.73E-05	2.50E-04	1.84E-04	1.84E-04	1.03E-04	2.62E-06	3.80E-05	2.87E-05	2.87E-05	1.58E-05	1.42E-06	2.06E-05	1.28E-05	1.28E-05	6.33E-06
1336	259188.59	4084293.99	1.73E-05	2.51E-04	1.85E-04	1.85E-04	1.03E-04	2.63E-06	3.82E-05	2.89E-05	2.89E-05	1.59E-05	1.43E-06	2.07E-05	1.28E-05	1.28E-05	6.36E-06
1337	259198.57	4084316.06	1.74E-05	2.51E-04	1.85E-04	1.85E-04	1.03E-04	2.64E-06	3.83E-05	2.89E-05	2.89E-05	1.59E-05	1.43E-06	2.07E-05	1.29E-05	1.29E-05	6.36E-06
1338	259208.56	4084338.14	1.73E-05	2.50E-04	1.85E-04	1.85E-04	1.03E-04	2.63E-06	3.82E-05	2.88E-05	2.88E-05	1.58E-05	1.43E-06	2.06E-05	1.28E-05	1.28E-05	6.35E-06
1339	259218.54	4084360.21	1.72E-05	2.49E-04	1.84E-04	1.84E-04	1.02E-04	2.61E-06	3.79E-05	2.87E-05	2.87E-05	1.58E-05	1.42E-06	2.05E-05	1.28E-05	1.28E-05	6.31E-06
1340	259228.53	4084382.28	1.71E-05	2.47E-04	1.82E-04	1.82E-04	1.01E-04	2.59E-06	3.76E-05	2.84E-05	2.84E-05	1.56E-05	1.41E-06	2.03E-05	1.26E-05	1.26E-05	6.25E-06
1341	259238.52	4084404.36	1.68E-05	2.44E-04	1.80E-04	1.80E-04	1.00E-04	2.56E-06	3.71E-05	2.80E-05	2.80E-05	1.54E-05	1.39E-06	2.01E-05	1.25E-05	1.25E-05	6.17E-06
1342	259248.5	4084426.43	1.66E-05	2.41E-04	1.77E-04	1.77E-04	9.89E-05	2.53E-06	3.67E-05	2.77E-05	2.77E-05	1.52E-05	1.37E-06	1.98E-05	1.23E-05	1.23E-05	6.10E-06
1343	259258.49	4084448.5	1.63E-05	2.36E-04	1.74E-04	1.74E-04	9.71E-05	2.48E-06	3.60E-05	2.72E-05	2.72E-05	1.50E-05	1.35E-06	1.95E-05	1.21E-05	1.21E-05	5.99E-06
1344	259268.48	4084470.58	1.60E-05	2.31E-04	1.71E-04	1.71E-04	9.51E-05	2.43E-06	3.53E-05	2.66E-05	2.66E-05	1.46E-05	1.32E-06	1.91E-05	1.19E-05	1.19E-05	5.87E-06
1345	259278.46	4084492.65	1.56E-05	2.26E-04	1.67E-04	1.67E-04	9.29E-05	2.37E-06	3.44E-05	2.60E-05	2.60E-05	1.43E-05	1.29E-06	1.86E-05	1.16E-05	1.16E-05	5.73E-06
1346	259288.45	4084514.72	1.52E-05	2.20E-04	1.63E-04	1.63E-04	9.06E-05	2.31E-06	3.36E-05	2.54E-05	2.54E-05	1.39E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.59E-06
1347	259298.43	4084536.8	1.48E-05	2.15E-04	1.58E-04	1.58E-04	8.82E-05	2.25E-06	3.27E-05	2.47E-05	2.47E-05	1.36E-05	1.22E-06	1.77E-05	1.10E-05	1.10E-05	5.44E-06
1348	259308.42	4084558.87	1.44E-05	2.08E-04	1.54E-04	1.54E-04	8.57E-05	2.19E-06	3.18E-05	2.40E-05	2.40E-05	1.32E-05	1.19E-06	1.72E-05	1.07E-05	1.07E-05	5.28E-06
1349	259318.41	4084580.94	1.40E-05	2.02E-04	1.49E-04	1.49E-04	8.30E-05	2.12E-06	3.08E-05	2.33E-05	2.33E-05	1.28E-05	1.15E-06	1.67E-05	1.03E-05	1.03E-05	5.12E-06
1350	259328.39	4084603.02	1.35E-05	1.96E-04	1.44E-04	1.44E-04	8.03E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.11E-06	1.61E-05	1.00E-05	1.00E-05	4.96E-06
1351	259338.38	4084625.09	1.30E-05	1.89E-04	1.39E-04	1.39E-04	7.75E-05	1.98E-06	2.87E-05	2.17E-05	2.17E-05	1.19E-05	1.08E-06	1.56E-05	9.66E-06	9.66E-06	4.78E-06
1352	259348.36	4084647.16	1.26E-05	1.82E-04	1.34E-04	1.34E-04	7.46E-05	1.91E-06	2.77E-05	2.09E-05	2.09E-05	1.15E-05	1.04E-06	1.50E-05	9.30E-06	9.30E-06	4.60E-06
1353	259358.35	4084669.24	1.21E-05	1.74E-04	1.29E-04	1.29E-04	7.16E-05	1.83E-06	2.66E-05	2.01E-05	2.01E-05	1.10E-05	9.94E-07	1.44E-05	8.93E-06	8.93E-06	4.42E-06
1354	259368.34	4084691.31	1.15E-05	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.52E-07	1.38E-05	8.55E-06	8.55E-06	4.23E-06
1355	259378.32	4084713.38	1.11E-05	1.60E-04	1.18E-04	1.18E-04	6.57E-05	1.68E-06	2.43E-05	1.84E-05	1.84E-05	1.01E-05	9.11E-07	1.32E-05	8.18E-06	8.18E-06	4.05E-06
1356	259388.31	4084735.46	1.06E-05	1.53E-04	1.13E-04	1.13E-04	6.28E-05	1.60E-06	2.33E-05	1.76E-05	1.76E-05	9.67E-06	8.71E-07	1.26E-05	7.83E-06	7.83E-06	3.87E-06
1357	259398.29	4084757.53	1.01E-05	1.46E-04	1.08E-04	1.08E-04	6.01E-05	1.53E-06	2.23E-05	1.68E-05	1.68E-05	9.25E-06	8.34E-07	1.21E-05	7.49E-06	7.49E-06	3.71E-06
1358	259408.28	4084779.6	9.69E-06	1.40E-04	1.03E-04	1.03E-04	5.76E-05	1.47E-06	2.13E-05	1.61E-05	1.61E-05	8.86E-06	7.98E-07	1.15E-05	7.17E-06	7.17E-06	3.55E-06
1359	259418.27	4084801.68	9.29E-06	1.34E-04	9.90E-05	9.90E-05	5.52E-05	1.41E-06	2.05E-05	1.55E-05	1.55E-05	8.50E-06	7.66E-07	1.11E-05	6.88E-06	6.88E-06	3.41E-06
1360	259428.25	4084823.75	8.92E-06	1.29E-04	9.51E-05	9.51E-05	5.30E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.16E-06	7.35E-07	1.06E-05	6.60E-06	6.60E-06	3.27E-06
1361	259438.24	4084845.82	8.56E-06	1.24E-04	9.13E-05	9.13E-05	5.09E-05	1.30E-06	1.89E-05	1.43E-05	1.43E-05	7.84E-06	7.06E-07	1.02E-05	6.34E-06	6.34E-06	3.14E-06

1362	259448.23	4084867.9	8.22E-06	1.19E-04	8.76E-05	8.76E-05	4.88E-05	1.25E-06	1.81E-05	1.37E-05	1.37E-05	7.52E-06	6.77E-07	9.80E-06	6.09E-06	6.09E-06	3.01E-06
1363	258313.5	4083822.99	3.68E-06	5.33E-05	3.93E-05	3.93E-05	2.19E-05	5.59E-07	8.12E-06	6.13E-06	6.13E-06	3.37E-06	3.04E-07	4.39E-06	2.73E-06	2.73E-06	1.35E-06
1364	258289.16	4083823.99	3.58E-06	5.17E-05	3.81E-05	3.81E-05	2.13E-05	5.43E-07	7.88E-06	5.95E-06	5.95E-06	3.27E-06	2.95E-07	4.26E-06	2.65E-06	2.65E-06	1.31E-06
1365	258264.83	4083824.99	3.47E-06	5.02E-05	3.70E-05	3.70E-05	2.06E-05	5.27E-07	7.65E-06	5.78E-06	5.78E-06	3.18E-06	2.86E-07	4.14E-06	2.57E-06	2.57E-06	1.27E-06
1366	258240.5	4083825.99	3.37E-06	4.88E-05	3.59E-05	3.59E-05	2.00E-05	5.12E-07	7.43E-06	5.61E-06	5.61E-06	3.08E-06	2.78E-07	4.02E-06	2.50E-06	2.50E-06	1.24E-06
1367	258216.17	4083826.99	3.27E-06	4.73E-05	3.49E-05	3.49E-05	1.94E-05	4.97E-07	7.21E-06	5.45E-06	5.45E-06	2.99E-06	2.70E-07	3.90E-06	2.42E-06	2.42E-06	1.20E-06
1368	258191.84	4083827.99	3.17E-06	4.59E-05	3.38E-05	3.38E-05	1.89E-05	4.82E-07	6.99E-06	5.28E-06	5.28E-06	2.90E-06	2.62E-07	3.78E-06	2.35E-06	2.35E-06	1.16E-06
1369	258167.51	4083828.99	3.08E-06	4.45E-05	3.28E-05	3.28E-05	1.83E-05	4.67E-07	6.79E-06	5.13E-06	5.13E-06	2.82E-06	2.54E-07	3.67E-06	2.28E-06	2.28E-06	1.13E-06
1370	258143.17	4083829.99	2.99E-06	4.32E-05	3.18E-05	3.18E-05	1.77E-05	4.53E-07	6.58E-06	4.97E-06	4.97E-06	2.73E-06	2.46E-07	3.56E-06	2.21E-06	2.21E-06	1.09E-06
1371	258118.84	4083830.99	2.89E-06	4.18E-05	3.08E-05	3.08E-05	1.72E-05	4.39E-07	6.38E-06	4.82E-06	4.82E-06	2.65E-06	2.38E-07	3.45E-06	2.14E-06	2.14E-06	1.06E-06
1372	258094.51	4083831.99	2.80E-06	4.05E-05	2.99E-05	2.99E-05	1.66E-05	4.25E-07	6.17E-06	4.66E-06	4.66E-06	2.56E-06	2.31E-07	3.34E-06	2.07E-06	2.07E-06	1.03E-06
1373	258070.18	4083832.99	2.71E-06	3.92E-05	2.89E-05	2.89E-05	1.61E-05	4.12E-07	5.98E-06	4.52E-06	4.52E-06	2.48E-06	2.24E-07	3.23E-06	2.01E-06	2.01E-06	9.95E-07
1374	258045.85	4083833.99	2.63E-06	3.80E-05	2.80E-05	2.80E-05	1.56E-05	3.99E-07	5.79E-06	4.38E-06	4.38E-06	2.41E-06	2.17E-07	3.13E-06	1.95E-06	1.95E-06	9.64E-07
1375	258021.51	4083834.99	2.55E-06	3.68E-05	2.72E-05	2.72E-05	1.51E-05	3.87E-07	5.61E-06	4.24E-06	4.24E-06	2.33E-06	2.10E-07	3.04E-06	1.89E-06	1.89E-06	9.34E-07
1376	257997.18	4083835.99	2.47E-06	3.57E-05	2.63E-05	2.63E-05	1.47E-05	3.75E-07	5.44E-06	4.11E-06	4.11E-06	2.26E-06	2.04E-07	2.94E-06	1.83E-06	1.83E-06	9.05E-07
1377	257972.85	4083836.99	2.39E-06	3.46E-05	2.55E-05	2.55E-05	1.42E-05	3.63E-07	5.27E-06	3.98E-06	3.98E-06	2.19E-06	1.97E-07	2.85E-06	1.77E-06	1.77E-06	8.77E-07
1378	257948.52	4083837.99	2.33E-06	3.36E-05	2.48E-05	2.48E-05	1.38E-05	3.53E-07	5.12E-06	3.87E-06	3.87E-06	2.13E-06	1.92E-07	2.77E-06	1.72E-06	1.72E-06	8.53E-07
1379	257924.19	4083838.99	2.26E-06	3.27E-05	2.41E-05	2.41E-05	1.34E-05	3.43E-07	4.98E-06	3.76E-06	3.76E-06	2.07E-06	1.86E-07	2.69E-06	1.67E-06	1.67E-06	8.28E-07
1380	257899.86	4083839.99	2.20E-06	3.18E-05	2.35E-05	2.35E-05	1.31E-05	3.34E-07	4.85E-06	3.66E-06	3.66E-06	2.01E-06	1.81E-07	2.62E-06	1.63E-06	1.63E-06	8.07E-07
1381	257875.52	4083840.99	2.14E-06	3.10E-05	2.28E-05	2.28E-05	1.27E-05	3.25E-07	4.72E-06	3.57E-06	3.57E-06	1.96E-06	1.77E-07	2.56E-06	1.59E-06	1.59E-06	7.86E-07
1382	257851.19	4083841.99	2.09E-06	3.03E-05	2.23E-05	2.23E-05	1.24E-05	3.18E-07	4.61E-06	3.48E-06	3.48E-06	1.91E-06	1.72E-07	2.49E-06	1.55E-06	1.55E-06	7.67E-07
1383	257826.86	4083842.99	2.05E-06	2.96E-05	2.18E-05	2.18E-05	1.22E-05	3.10E-07	4.51E-06	3.40E-06	3.40E-06	1.87E-06	1.69E-07	2.44E-06	1.51E-06	1.51E-06	7.50E-07
1384	257802.53	4083843.99	2.00E-06	2.90E-05	2.13E-05	2.13E-05	1.19E-05	3.04E-07	4.41E-06	3.33E-06	3.33E-06	1.83E-06	1.65E-07	2.39E-06	1.48E-06	1.48E-06	7.34E-07
1385	257778.2	4083845	1.96E-06	2.84E-05	2.09E-05	2.09E-05	1.17E-05	2.98E-07	4.33E-06	3.27E-06	3.27E-06	1.80E-06	1.62E-07	2.34E-06	1.45E-06	1.45E-06	7.20E-07
1386	257753.86	4083846	1.93E-06	2.79E-05	2.06E-05	2.06E-05	1.15E-05	2.93E-07	4.25E-06	3.21E-06	3.21E-06	1.76E-06	1.59E-07	2.30E-06	1.43E-06	1.43E-06	7.07E-07
1387	257729.53	4083847	1.90E-06	2.74E-05	2.02E-05	2.02E-05	1.13E-05	2.88E-07	4.18E-06	3.15E-06	3.15E-06	1.73E-06	1.56E-07	2.26E-06	1.40E-06	1.40E-06	6.95E-07
1388	257705.2	4083848	1.86E-06	2.70E-05	1.99E-05	1.99E-05	1.11E-05	2.83E-07	4.11E-06	3.10E-06	3.10E-06	1.71E-06	1.54E-07	2.22E-06	1.38E-06	1.38E-06	6.84E-07
1389	257680.87	4083849	1.84E-06	2.66E-05	1.96E-05	1.96E-05	1.09E-05	2.79E-07	4.05E-06	3.06E-06	3.06E-06	1.68E-06	1.52E-07	2.19E-06	1.36E-06	1.36E-06	6.74E-07
1390	257656.54	4083850	1.81E-06	2.62E-05	1.93E-05	1.93E-05	1.08E-05	2.75E-07	3.99E-06	3.02E-06	3.02E-06	1.66E-06	1.49E-07	2.16E-06	1.34E-06	1.34E-06	6.64E-07
1391	257632.21	4083851	1.79E-06	2.59E-05	1.91E-05	1.91E-05	1.06E-05	2.71E-07	3.94E-06	2.98E-06	2.98E-06	1.64E-06	1.47E-07	2.13E-06	1.32E-06	1.32E-06	6.56E-07
1392	257607.87	4083852	1.76E-06	2.55E-05	1.88E-05	1.88E-05	1.05E-05	2.68E-07	3.89E-06	2.94E-06	2.94E-06	1.61E-06	1.45E-07	2.10E-06	1.31E-06	1.31E-06	6.47E-07
1393	257583.54	4083853	1.74E-06	2.52E-05	1.86E-05	1.86E-05	1.04E-05	2.64E-07	3.84E-06	2.90E-06	2.90E-06	1.59E-06	1.44E-07	2.08E-06	1.29E-06	1.29E-06	6.38E-07
1394	257559.21	4083854	1.72E-06	2.49E-05	1.83E-05	1.83E-05	1.02E-05	2.61E-07	3.79E-06	2.86E-06	2.86E-06	1.57E-06	1.42E-07	2.05E-06	1.27E-06	1.27E-06	6.30E-07
1395	257534.88	4083855	1.69E-06	2.45E-05	1.81E-05	1.81E-05	1.01E-05	2.57E-07	3.73E-06	2.82E-06	2.82E-06	1.55E-06	1.40E-07	2.02E-06	1.25E-06	1.25E-06	6.21E-07
1396	257510.55	4083856	1.67E-06	2.42E-05	1.78E-05	1.78E-05	9.94E-06	2.54E-07	3.68E-06	2.78E-06	2.78E-06	1.53E-06	1.38E-07	1.99E-06	1.24E-06	1.24E-06	6.13E-07
1397	258327.66	4083631.44	2.62E-06	3.79E-05	2.79E-05	2.79E-05	1.56E-05	3.97E-07	5.77E-06	4.36E-06	4.36E-06	2.40E-06	2.16E-07	3.12E-06	1.94E-06	1.94E-06	9.60E-07
1398	258350.03	4083639.73	2.72E-06	3.94E-05	2.90E-05	2.90E-05	1.62E-05	4.13E-07	6.00E-06	4.53E-06	4.53E-06	2.49E-06	2.24E-07	3.24E-06	2.02E-06	2.02E-06	9.98E-07
1399	258372.41	4083648.01	2.83E-06	4.09E-05	3.02E-05	3.02E-05	1.68E-05	4.29E-07	6.24E-06	4.71E-06	4.71E-06	2.59E-06	2.33E-07	3.37E-06	2.10E-06	2.10E-06	1.04E-06
1400	258394.78	4083656.29	2.95E-06	4.26E-05	3.14E-05	3.14E-05	1.75E-05	4.47E-07	6.49E-06	4.90E-06	4.90E-06	2.70E-06	2.43E-07	3.51E-06	2.18E-06	2.18E-06	1.08E-06
1401	258417.16	4083664.58	3.07E-06	4.45E-05	3.28E-05	3.28E-05	1.83E-05	4.66E-07	6.77E-06	5.12E-06	5.12E-06	2.81E-06	2.53E-07	3.66E-06	2.28E-06	2.28E-06	1.13E-06
1402	258439.54	4083672.86	3.21E-06	4.64E-05	3.42E-05	3.42E-05	1.91E-05	4.87E-07	7.07E-06	5.34E-06	5.34E-06	2.94E-06	2.65E-07	3.83E-06	2.38E-06	2.38E-06	1.18E-06
1403	258461.91	4083681.15	3.35E-06	4.85E-05	3.58E-05	3.58E-05	1.99E-05	5.09E-07	7.39E-06	5.58E-06	5.58E-06	3.07E-06	2.77E-07	4.00E-06	2.48E-06	2.48E-06	1.23E-06
1404	258484.29	4083689.43	3.51E-06	5.08E-05	3.74E-05	3.74E-05	2.09E-05	5.33E-07	7.73E-06	5.84E-06	5.84E-06	3.21E-06	2.89E-07	4.18E-06	2.60E-06	2.60E-06	1.29E-06
1405	258506.66	4083697.72	3.68E-06	5.32E-05	3.92E-05	3.92E-05	2.19E-05	5.59E-07	8.11E-06	6.13E-06	6.13E-06	3.37E-06	3.03E-07	4.39E-06	2.73E-06	2.73E-06	1.35E-06
1406	258529.04	4083706	3.86E-06	5.58E-05	4.12E-05	4.12E-05	2.29E-05	5.86E-07	8.51E-06	6.43E-06	6.43E-06	3.53E-06	3.18E-07	4.60E-06	2.86E-06	2.86E-06	1.42E-06
1407	258551.41	4083714.29	4.05E-06	5.86E-05	4.32E-05	4.32E-05	2.41E-05	6.15E-07	8.93E-06	6.75E-06	6.75E-06	3.71E-06	3.34E-07	4.83E-06	3.00E-06	3.00E-06	1.49E-06
1408	258573.79	4083722.57	4.26E-06	6.16E-05	4.54E-05	4.54E-05	2.53E-05	6.46E-07	9.38E-06	7.09E-06	7.09E-06	3.90E-06	3.51E-07	5.08E-06	3.15E-06	3.15E-06	1.56E-06
1409	258596.17	4083730.85	4.48E-06	6.47E-05	4.77E-05	4.77E-05	2.66E-05	6.79E-07	9.86E-06	7.45E-06	7.45E-06	4.10E-06	3.69E-07	5.34E-06	3.31E-06	3.31E-06	1.64E-06
1410	258618.54	4083739.14	4.70E-06	6.80E-05	5.01E-05	5.01E-05	2.79E-05	7.14E-07	1.04E-05	7.83E-06	7.83E-06	4.30E-06	3.88E-07	5.61E-06	3.48E-06	3.48E-06	1.72E-06
1411	258640.92	4083747.42	4.94E-06	7.15E-05	5.27E-05	5.27E-05	2.94E-05	7.50E-07	1.09E-05	8.23E-06	8.23E-06	4.52E-06	4.07E-07	5.89E-06	3.66E-06	3.66E-06	1.81E-06
1412	258663.29	4083755.71	5.19E-06	7.51E-05	5.53E-05	5.53E-05	3.08E-05	7.88E-07	1.14E-05	8.64E-06	8.64E-06	4.75E-06	4.28E-07	6.19E-06	3.84E-06	3.84E-06	1.90E-06
1413	258685.67	4083763.99	5.45E-06	7.88E-05	5.81E-05	5.81E-05	3.24E-05	8.27E-07	1.20E-05	9.07E-06	9.07E-06	4.99E-06	4.49E-07	6.50E-06	4.04E-06	4.04E-06	2.00E-06
1414	258708.04	4083772.28	5.72E-06	8.27E-05	6.10E-05	6.10E-05	3.40E-05	8.68E-07	1.26E-05	9.52E-06	9.52E-06	5.23E-06	4.71E-07	6.82E-06	4.24E-06	4.24E-06	2.10E-06
1415	258730.42	4083780.56	6.00E-06	8.67E-05	6.39E-05	6.39E-05	3.56E-05	9.10E-07	1.32E-05	9.98E-06	9.98E-06	5.49E-06	4.94E-07	7.15E-06	4.44E-06	4.44E-06	2.20E-06
1416	258752.8	4083788.84	6.28E-06	9.09E-05	6.70E-05	6.70E-05	3.73E-05	9.53E-07	1.38E-05	1.05E-05	1.05E-05	5.75E-06	5.18E-07	7.49E-06	4.65E-06	4.65E-06	2.30E-06
1417	258775.17	4083797.13	6.57E-06	9.51E-05	7.01E-05	7.01E-05	3.91E-05	9.98E-07	1.45E-05	1.09E-05	1.09E-05	6.02E-06	5.42E-07	7.84E-06	4.87E-06	4.87E-06	2.41E-06
1418	258797.55	4083805.41	6.87E-06	9.94E-05	7.33E-05	7.33E-05	4.08E-05	1.04E-06	1.51E-05	1.14E-05	1.14E-05	6.29E-06	5.67E-07	8.19E-06	5.09E-06	5.09E-06	2.52E-06
1419	258819.92	4083813.7	7.18E-06	1.04E-04	7.65E-05	7.65E-05	4.27E-05	1.09E-06	1.58E-05	1.19E-05	1.19E-05	6.57E-06	5.92E-07	8.56E-06	5.32E-06	5.32E-06	2.63E-06
1420	258842.3	4083821.98	7.49E-06	1.08E-04	7.98E-05	7.98E-05	4.45E-05	1.14E-06	1.65E-05	1.25E-05	1.25E-05	6.85E-06	6.17E-07	8.92E-06	5.54E-06	5.54E-06	2.74E-06
1421	258864.68	4083830.27	7.79E-06	1.13E-04	8.31E-05	8.31E-05	4.63E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.13E-06	6.43E-07	9.29E-06	5.77E-06	5.77E-06	2.86E-06
1422	258887.05	4083838.55	8.11E-06	1.17E-04	8.64E-05	8.64E-05	4.82E-05	1.23E-06	1.79E-05	1.35E-05	1.35E-05	7.42E-06	6.68E-07	9.66E-06	6.00E-06	6.00E-06	2.97E-06
1423	258909.43	4083846.83	8.42E-06	1.22E-04	8.97E-05	8.97E-05	5.00E-05	1.28E-06	1.85E-05	1.40E-05	1.40E-05	7.70E-06	6.94E-07	1.00E-05	6.23E-06	6.23E-06	3.08E-06
1424	258931.8	4083855.12	8.73E-06	1.26E-04	9.30E-05	9.30E-05	5.19E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.98E-06	7.19E-07	1.04E-05	6.46E-06	6.46E-06	3.20E-06
1425	258954.18	4083863.4	9.03E-06	1.31E-04	9.63E-05	9.63E-05	5.37E-05	1.37E-06	1.99E-05	1.50E-05	1.50E-05	8.26E-06	7.44E-07	1.08E-05	6.69E-06	6.69E-06	3.31E-06
1426	258976.55	4083871.69	9.33E-06	1.35E-04	9.95E-05	9.95E-05	5.55E-05	1.42E-06	2.06E-05	1.55E-05	1.55E-05	8.54E-06	7.69E-07	1.11E-05	6.91E-06	6.91E-06	3.42E-06
1427	258998.93	4083879.97	9.62E-06	1.39E-04	1.03E-04	1.03E-04	5.72E-05	1.46E-06	2.12E-05	1.60E-05	1.60E-05	8.81E-06	7.93E-07	1.15E-05	7.13E-06	7.13E-06	3.53E-06
1428	259021.31	4083888.26	9.91E-06	1.43E-04	1.06E-04	1.06E-04	5.89E-05	1.50E-06	2.18E-05	1.65E-05	1.65E-05	9.07E-06	8.17E-07	1.18E-05	7.34E-06	7.34E-06	3.63E-06
1429	259043.68	4083896.54	1.02E-05	1.47E-04	1.09E-04	1.09E-04	6.05E-05	1.55E-06	2.24E-05	1.69E-05	1.69E-05	9.32E-06	8.39E-07	1.21E-05	7.54E-06	7.54E-06	3.73E-06
1430	259066.06	4083904.83	1.04E-05	1.51E-04	1.11E-04	1.11E-04	6.20E-05	1.58E-06	2.30E-05	1.74E-05	1.74E-05	9.55E-06	8.60E-07	1.24E-05	7.73E-06	7.73E-06	3.82E-06
1431	259088.43	4083913.11	1.07E-05	1.54E-04	1.14E-04	1.14E-04	6.34E-05	1.62E-06	2.35E-05	1.78E-05	1.78E-05	9.76E-06	8.80E-07	1.27E-05	7.90E-06	7.90E-06	3.91E-06
1432	259110.81	4083921.39	1.09E-05	1.57E-04	1.16E-04	1.16E-04	6.47E-05	1.65E-06	2.40E-05	1.81E-05	1.81E-05	9.96E-06	8.98E-07	1.30E-05	8.06E-06	8.06E-06	3.99E-06
1433	259133.18	4083929.68	1.11E-05	1.60E-04	1.18E-04	1.18E-04	6.59E-05	1.68E-06	2.44E-05	1.85E-05	1.85E-05	1.01E-05	9.14E-07	1.32E-05	8.21E-06	8.21E-06	4.07E-06
1434	259155.56	4083937.96	1.13E-05	1.63E-04	1.20E-04	1.20E-04	6.70E-05	1.71E-06	2.48E-05	1.88E-05	1.88E-05	1.03E-05	9.29E-07	1.34E-05	8.34E-06	8.34E-06	4.13E-06
1435	259177.94	4083946.25	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.78E-05	1.73E-06	2.51E-05	1.90E-05	1.90E-05	1.04E-05	9.41E-07	1.36E-05	8.45E-06	8.45E-06	4.18E-06
1436	259200.31	4083954.53	1.15E-05	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.52E-07	1.38E-05	8.55E-06	8.55E-06	4.23E-06
1437	259222.69	4083962.82	1.17E-05	1.69E-04	1.24E-04	1.24E-04	6.93E-05	1.77E-06	2.57E-05	1.94E-05	1.94E-05	1.07E-05	9.61E-07	1.39E-05	8.63E-06	8.63E-06	4.27E-06
1438	259254.9	4083992.84	1.21E-05	1.74E-04	1.28E-04	1.28E-04	7.16E-05	1.83E-06	2.66E-05	2.01E-05	2.01E-05	1.10E-05	9.93E-07	1.44E-05	8.92E-06	8.92E-06	4.42E-06
1439	259264.73	4084014.58	1.23E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
1440	259274.57	4084036.32	1.26E-05	1.83E-04	1.35E-04	1.35E-04	7.50E-05	1.92E-06	2.78E-05	2.10E-05	2.10E-05	1.15E-05	1.04E-06	1.50E-05	9.34E-06	9.34E-06	4.63E-06
1441	259284.4	4084058.06	1.29E-05	1.86E-04	1.37E-04	1.37E-04	7.65E-05	1.95E-06	2.84E-05	2.14E-05	2.14E-05	1.18E-05	1.06E-06	1.53E-05	9.53E-06	9.53E-06	4.72E-06
1442	259294.24	4084079.8	1.31E-05	1.89E-04	1.40E-04	1.40E-04	7.78E-05	1.99E-06	2.89E-05	2.18E-05	2.18E-05	1.20E-05	1.08E-06	1.56E-05	9.70E-06	9.70E-06	4.80E-06
1443	259304.07	4084101.53	1.33E-05	1.92E-04	1.42E-04	1.42E-04	7.90E-05	2.02E-06	2.93E-05	2.21E-05	2.21E-05	1.22E-05	1.10E-06	1.58E-05	9.84E-06	9.84E-06	4.87E-06
1444	259313.91	4084123.27	1.34E-05	1.94E-04	1.43E-04	1.43E-04	7.99E-05	2.04E-06	2.96E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.60E-05	9.96E-06	9.96E-06	4.93E-06
1445	259323.74	4084145.01	1.36E-05	1.96E-04	1.45E-04	1.45E-04	8.06E-05	2.06E-06	2.99E-05	2.26E-05	2.26E-05	1.24E-05	1.12E-06	1.62E-05	1.00E-05	1.00E-05	4.97E-06
1446	259333.58	4084166.75	1.37E-05	1.97E-04	1.46E-04	1.46E-04	8.11E-05	2.07E-06	3.01E-05	2.27E-05	2.27E-05	1.25E-05	1.13E-06	1.63E-05	1.01E-05	1.01E-05	5.00E-06
1447	259343.41	4084188.49	1.37E-05	1.98E-04	1.46E-04	1.46E-04	8.14E-05	2.08E-06	3.02E-05	2.28E-05	2.28E-05	1.25E-05	1.13E-06	1.63E-05	1.01E-05	1.01E-05	5.02E-06
1448	259353.25	4084210.23	1.37E-05	1.98E-04	1.46E-04	1.46E-04	8.15E-05	2.08E-06	3.02E-05	2.28E-05	2.28E-05	1.25E-05	1.13E-06	1.63E-05	1.02E-05	1.02E-05	5.02E-06
1449	259363.08	4084231.97	1.37E-05	1.98E-04	1.46E-04	1.46E-04	8.13E-05	2.08E-06	3.01E-05	2.28E-05	2.28E-05	1.25E-05	1.13E-06	1.63E-05	1.01E-05	1.01E-05	5.01E-06
1450	259372.92	4084253.71	1.36E-05	1.97E-04	1.45E-04	1.45E-04	8.08E-05	2.06E-06	3.00E-05	2.26E-05	2.26E-05	1.24E-05	1.12E-06	1.62E-05	1.01E-05	1.01E-05	4.99E-06
1451	259382.75	4084275.45	1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.02E-05	2.05E-06	2.97E-05	2.25E-05	2.25E-05	1.23E-05	1.11E-06	1.61E-05	9.99E-06	9.99E-06	4.95E-06
1452	259392.59	4084297.18	1.34E-05	1.93E-04	1.42E-04	1.42E-04	7.94E-05	2.03E-06	2.94E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.89E-06	9.89E-06	4.89E-06
1453	259402.42	4084318.92	1.32E-05	1.91E-04	1.41E-04	1.41E-04	7.83E-05	2.00E-06	2.90E-05	2.19E-05	2.19E-05	1.21E-05	1.09E-06	1.57E-05	9.76E-06	9.76E-06	4.83E-06
1454	259412.26	4084340.66	1.30E-05	1.88E-04	1.38E-04	1.38E-04	7.71E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.61E-06	9.61E-06	4.76E-06
1455	259422.09	4084362.4	1.28E-05	1.84E-04	1.36E-04	1.36E-04	7.58E-05	1.94E-06	2.81E-05	2.12E-05	2.12E-05	1.17E-05	1.05E-06	1.52E-05	9.45E-06	9.45E-06	4.68E-06
1456	259431.93	4084384.14	1.25E-05	1.81E-04	1.33E-04	1.33E-04	7.44E-05	1.90E-06	2.76E-05	2.08E-05	2.08E-05	1.15E-05	1.03E-06	1.49E-05	9.27E-06	9.27E-06	4.59E-06
1457	259441.76	4084405.88	1.23E-05	1.78E-04	1.31E-04	1.31E-04	7.32E-05	1.87E-06	2.71E-05	2.05E-05	2.05E-05	1.13E-05	1.01E-06	1.47E-05	9.12E-06	9.12E-06	4.51E-06
1458	259451.6	4084427.62	1.21E-05	1.74E-04	1.28E-04	1.28E-04	7.16E-05	1.83E-06	2.66E-05	2.01E-05	2.01E-05	1.10E-05	9.94E-07	1.44E-05	8.93E-06	8.93E-06	4.42E-06
1459	259461.43	4084449.36	1.18E-05	1.71E-04	1.26E-04	1.26E-04	7.01E-05	1.79E-06	2.60E-05	1.96E-05	1.96E-05	1.08E-05	9.72E-07	1.41E-05	8.73E-06	8.73E-06	4.32E-06
1460	259471.26	4084471.1	1.15E-05	1.67E-04	1.23E-04	1.23E-04	6.85E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.05E-05	9.50E-07	1.37E-05	8.54E-06	8.54E-06	4.23E-06
1461	259481.1	4084492.84	1.13E-05	1.63E-04	1.20E-04	1.20E-04	6.69E-05	1.71E-06	2.48E-05	1.87E-05	1.87E-05	1.03E-05	9.28E-07	1.34E-05	8.34E-06	8.34E-06	4.13E-06
1462	259490.93	4084514.57	1.10E-05	1.59E-04	1.17E-04	1.17E-04	6.53E-05	1.67E-06	2.42E-05	1.83E-05	1.83E-05	1.01E-05	9.06E-07	1.31E-05	8.14E-06	8.14E-06	4.03E-06
1463	259500.77	4084536.31	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.36E-05	1.62E-06	2.36E-05	1.78E-05	1.78E-05	9.80E-06	8.83E-07	1.28E-05	7.93E-06	7.93E-06	3.92E-06
1464	259510.6	4084558.05	1.04E-05	1.51E-04	1.11E-04	1.11E-04	6.19E-05	1.58E-06	2.29E-05	1.73E-05	1.73E-05	9.53E-06	8.58E-07	1.24E-05	7.71E-06	7.71E-06	3.82E-06
1465	259520.44	4084579.79	1.01E-05	1.46E-04	1.08E-04	1.08E-04	6.00E-05	1.53E-06	2.23E-05	1.68E-05	1.68E-05	9.24E-06	8.33E-07	1.20E-05	7.48E-06	7.48E-06	3.70E-06
1466	259530.27	4084601.53	9.77E-06	1.41E-04	1.04E-04	1.04E-04	5.81E-05	1.48E-06	2.15E-05	1.63E-05	1.63E-05	8.94E-06	8.06E-07	1.17E-05	7.24E-06	7.24E-06	3.58E-06

1467	259540.11	4084623.27	9.43E-06	1.36E-04	1.01E-04	1.01E-04	5.61E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.63E-06	7.77E-07	1.12E-05	6.99E-06	6.99E-06	3.46E-06
1468	259549.94	4084645.01	9.08E-06	1.31E-04	9.68E-05	9.68E-05	5.40E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.31E-06	7.49E-07	1.08E-05	6.73E-06	6.73E-06	3.33E-06
1469	259559.78	4084666.75	8.73E-06	1.26E-04	9.31E-05	9.31E-05	5.19E-05	1.33E-06	1.92E-05	1.45E-05	1.45E-05	7.99E-06	7.20E-07	1.04E-05	6.47E-06	6.47E-06	3.20E-06
1470	259569.61	4084688.49	8.40E-06	1.21E-04	8.95E-05	8.95E-05	4.99E-05	1.27E-06	1.85E-05	1.40E-05	1.40E-05	7.68E-06	6.92E-07	1.00E-05	6.22E-06	6.22E-06	3.08E-06
1471	259579.45	4084710.22	8.08E-06	1.17E-04	8.62E-05	8.62E-05	4.80E-05	1.23E-06	1.78E-05	1.35E-05	1.35E-05	7.40E-06	6.66E-07	9.64E-06	5.98E-06	5.98E-06	2.96E-06
1472	259589.28	4084731.96	7.79E-06	1.13E-04	8.31E-05	8.31E-05	4.63E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.13E-06	6.42E-07	9.29E-06	5.77E-06	5.77E-06	2.86E-06
1473	259599.12	4084753.7	7.52E-06	1.09E-04	8.02E-05	8.02E-05	4.47E-05	1.14E-06	1.66E-05	1.25E-05	1.25E-05	6.89E-06	6.20E-07	8.97E-06	5.57E-06	5.57E-06	2.76E-06
1474	259608.95	4084775.44	7.28E-06	1.05E-04	7.76E-05	7.76E-05	4.33E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.66E-06	6.00E-07	8.68E-06	5.39E-06	5.39E-06	2.67E-06
1475	259618.79	4084797.18	7.05E-06	1.02E-04	7.51E-05	7.51E-05	4.19E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.45E-06	5.81E-07	8.40E-06	5.22E-06	5.22E-06	2.58E-06
1476	259628.62	4084818.92	6.83E-06	9.87E-05	7.28E-05	7.28E-05	4.06E-05	1.04E-06	1.50E-05	1.14E-05	1.14E-05	6.25E-06	5.63E-07	8.14E-06	5.05E-06	5.05E-06	2.50E-06
1477	259638.46	4084840.66	6.60E-06	9.55E-05	7.04E-05	7.04E-05	3.93E-05	1.00E-06	1.46E-05	1.10E-05	1.10E-05	6.04E-06	5.44E-07	7.87E-06	4.89E-06	4.89E-06	2.42E-06
1478	259648.29	4084862.4	6.38E-06	9.23E-05	6.80E-05	6.80E-05	3.79E-05	9.69E-07	1.41E-05	1.06E-05	1.06E-05	5.84E-06	5.26E-07	7.61E-06	4.73E-06	4.73E-06	2.34E-06
1479	258305.28	4083623.16	2.52E-06	3.65E-05	2.69E-05	2.69E-05	1.50E-05	3.83E-07	5.56E-06	4.20E-06	4.20E-06	2.31E-06	2.08E-07	3.01E-06	1.87E-06	1.87E-06	9.25E-07
1480	258280.95	4083624.16	2.46E-06	3.56E-05	2.63E-05	2.63E-05	1.46E-05	3.74E-07	5.43E-06	4.10E-06	4.10E-06	2.25E-06	2.03E-07	2.94E-06	1.82E-06	1.82E-06	9.03E-07
1481	258256.62	4083625.16	2.41E-06	3.48E-05	2.56E-05	2.56E-05	1.43E-05	3.65E-07	5.30E-06	4.00E-06	4.00E-06	2.20E-06	1.98E-07	2.87E-06	1.78E-06	1.78E-06	8.82E-07
1482	258232.29	4083626.16	2.35E-06	3.40E-05	2.51E-05	2.51E-05	1.40E-05	3.57E-07	5.18E-06	3.91E-06	3.91E-06	2.15E-06	1.94E-07	2.80E-06	1.74E-06	1.74E-06	8.62E-07
1483	258207.95	4083627.16	2.30E-06	3.32E-05	2.45E-05	2.45E-05	1.36E-05	3.48E-07	5.06E-06	3.82E-06	3.82E-06	2.10E-06	1.89E-07	2.74E-06	1.70E-06	1.70E-06	8.41E-07
1484	258183.62	4083628.16	2.24E-06	3.24E-05	2.39E-05	2.39E-05	1.33E-05	3.40E-07	4.94E-06	3.73E-06	3.73E-06	2.05E-06	1.85E-07	2.67E-06	1.66E-06	1.66E-06	8.22E-07
1485	258159.29	4083629.16	2.19E-06	3.17E-05	2.33E-05	2.33E-05	1.30E-05	3.32E-07	4.82E-06	3.64E-06	3.64E-06	2.00E-06	1.80E-07	2.61E-06	1.62E-06	1.62E-06	8.02E-07
1486	258134.96	4083630.16	2.14E-06	3.09E-05	2.28E-05	2.28E-05	1.27E-05	3.24E-07	4.70E-06	3.55E-06	3.55E-06	1.95E-06	1.76E-07	2.55E-06	1.58E-06	1.58E-06	7.83E-07
1487	258110.63	4083631.16	2.08E-06	3.01E-05	2.22E-05	2.22E-05	1.24E-05	3.16E-07	4.59E-06	3.47E-06	3.47E-06	1.91E-06	1.72E-07	2.48E-06	1.54E-06	1.54E-06	7.63E-07
1488	258086.29	4083632.16	2.03E-06	2.94E-05	2.16E-05	2.16E-05	1.21E-05	3.08E-07	4.47E-06	3.38E-06	3.38E-06	1.86E-06	1.67E-07	2.42E-06	1.50E-06	1.50E-06	7.44E-07
1489	258061.96	4083633.16	1.98E-06	2.87E-05	2.11E-05	2.11E-05	1.18E-05	3.01E-07	4.37E-06	3.30E-06	3.30E-06	1.81E-06	1.63E-07	2.36E-06	1.47E-06	1.47E-06	7.26E-07
1490	258037.63	4083634.16	1.93E-06	2.79E-05	2.06E-05	2.06E-05	1.15E-05	2.93E-07	4.26E-06	3.22E-06	3.22E-06	1.77E-06	1.59E-07	2.30E-06	1.43E-06	1.43E-06	7.08E-07
1491	258013.3	4083635.16	1.88E-06	2.72E-05	2.01E-05	2.01E-05	1.12E-05	2.86E-07	4.15E-06	3.13E-06	3.13E-06	1.72E-06	1.55E-07	2.25E-06	1.39E-06	1.39E-06	6.90E-07
1492	257988.97	4083636.16	1.84E-06	2.66E-05	1.96E-05	1.96E-05	1.09E-05	2.79E-07	4.05E-06	3.06E-06	3.06E-06	1.68E-06	1.52E-07	2.19E-06	1.36E-06	1.36E-06	6.74E-07
1493	257964.64	4083637.16	1.79E-06	2.59E-05	1.91E-05	1.91E-05	1.07E-05	2.72E-07	3.95E-06	2.98E-06	2.98E-06	1.64E-06	1.48E-07	2.14E-06	1.33E-06	1.33E-06	6.57E-07
1494	257940.3	4083638.16	1.75E-06	2.53E-05	1.87E-05	1.87E-05	1.04E-05	2.66E-07	3.86E-06	2.92E-06	2.92E-06	1.60E-06	1.44E-07	2.09E-06	1.30E-06	1.30E-06	6.42E-07
1495	257915.97	4083639.16	1.71E-06	2.47E-05	1.82E-05	1.82E-05	1.02E-05	2.60E-07	3.77E-06	2.85E-06	2.85E-06	1.57E-06	1.41E-07	2.04E-06	1.27E-06	1.27E-06	6.27E-07
1496	257891.64	4083640.16	1.67E-06	2.42E-05	1.78E-05	1.78E-05	9.94E-06	2.54E-07	3.68E-06	2.78E-06	2.78E-06	1.53E-06	1.38E-07	1.99E-06	1.24E-06	1.24E-06	6.13E-07
1497	257867.31	4083641.16	1.64E-06	2.37E-05	1.75E-05	1.75E-05	9.73E-06	2.48E-07	3.61E-06	2.73E-06	2.73E-06	1.50E-06	1.35E-07	1.95E-06	1.21E-06	1.21E-06	6.00E-07
1498	257842.98	4083642.16	1.60E-06	2.32E-05	1.71E-05	1.71E-05	9.52E-06	2.43E-07	3.53E-06	2.67E-06	2.67E-06	1.47E-06	1.32E-07	1.91E-06	1.19E-06	1.19E-06	5.87E-07
1499	257818.64	4083643.16	1.57E-06	2.27E-05	1.68E-05	1.68E-05	9.34E-06	2.39E-07	3.46E-06	2.62E-06	2.62E-06	1.44E-06	1.30E-07	1.87E-06	1.16E-06	1.16E-06	5.76E-07
1500	257794.31	4083644.16	1.54E-06	2.23E-05	1.64E-05	1.64E-05	9.17E-06	2.34E-07	3.40E-06	2.57E-06	2.57E-06	1.41E-06	1.27E-07	1.84E-06	1.14E-06	1.14E-06	5.66E-07
1501	257769.98	4083645.16	1.52E-06	2.19E-05	1.62E-05	1.62E-05	9.01E-06	2.30E-07	3.34E-06	2.52E-06	2.52E-06	1.39E-06	1.25E-07	1.81E-06	1.12E-06	1.12E-06	5.56E-07
1502	257745.65	4083646.16	1.49E-06	2.15E-05	1.59E-05	1.59E-05	8.85E-06	2.26E-07	3.28E-06	2.48E-06	2.48E-06	1.36E-06	1.23E-07	1.78E-06	1.10E-06	1.10E-06	5.46E-07
1503	257721.32	4083647.16	1.47E-06	2.12E-05	1.56E-05	1.56E-05	8.72E-06	2.23E-07	3.23E-06	2.44E-06	2.44E-06	1.34E-06	1.21E-07	1.75E-06	1.09E-06	1.09E-06	5.38E-07
1504	257696.99	4083648.16	1.45E-06	2.09E-05	1.54E-05	1.54E-05	8.60E-06	2.20E-07	3.19E-06	2.41E-06	2.41E-06	1.32E-06	1.19E-07	1.72E-06	1.07E-06	1.07E-06	5.30E-07
1505	257672.65	4083649.17	1.43E-06	2.06E-05	1.52E-05	1.52E-05	8.48E-06	2.16E-07	3.14E-06	2.37E-06	2.37E-06	1.31E-06	1.18E-07	1.70E-06	1.06E-06	1.06E-06	5.23E-07
1506	257648.32	4083650.17	1.41E-06	2.04E-05	1.50E-05	1.50E-05	8.37E-06	2.14E-07	3.10E-06	2.34E-06	2.34E-06	1.29E-06	1.16E-07	1.68E-06	1.04E-06	1.04E-06	5.16E-07
1507	257623.99	4083651.17	1.39E-06	2.01E-05	1.48E-05	1.48E-05	8.26E-06	2.11E-07	3.06E-06	2.31E-06	2.31E-06	1.27E-06	1.15E-07	1.66E-06	1.03E-06	1.03E-06	5.09E-07
1508	257599.66	4083652.17	1.37E-06	1.99E-05	1.46E-05	1.46E-05	8.16E-06	2.08E-07	3.03E-06	2.29E-06	2.29E-06	1.26E-06	1.13E-07	1.64E-06	1.02E-06	1.02E-06	5.03E-07
1509	257575.33	4083653.17	1.36E-06	1.96E-05	1.45E-05	1.45E-05	8.06E-06	2.06E-07	2.99E-06	2.26E-06	2.26E-06	1.24E-06	1.12E-07	1.62E-06	1.00E-06	1.00E-06	4.97E-07
1510	257550.99	4083654.17	1.34E-06	1.94E-05	1.43E-05	1.43E-05	7.96E-06	2.03E-07	2.95E-06	2.23E-06	2.23E-06	1.23E-06	1.10E-07	1.60E-06	9.92E-07	9.92E-07	4.91E-07
1511	257526.66	4083655.17	1.33E-06	1.92E-05	1.41E-05	1.41E-05	7.88E-06	2.01E-07	2.92E-06	2.21E-06	2.21E-06	1.21E-06	1.09E-07	1.58E-06	9.82E-07	9.82E-07	4.86E-07
1512	257502.33	4083656.17	1.31E-06	1.89E-05	1.40E-05	1.40E-05	7.78E-06	1.99E-07	2.89E-06	2.18E-06	2.18E-06	1.20E-06	1.08E-07	1.56E-06	9.70E-07	9.70E-07	4.80E-07
1513	258319.66	4083431.69	1.93E-06	2.79E-05	2.06E-05	2.06E-05	1.15E-05	2.93E-07	4.26E-06	3.22E-06	3.22E-06	1.77E-06	1.59E-07	2.30E-06	1.43E-06	1.43E-06	7.08E-07
1514	258342.25	4083440.05	2.00E-06	2.89E-05	2.13E-05	2.13E-05	1.19E-05	3.03E-07	4.40E-06	3.32E-06	3.32E-06	1.83E-06	1.65E-07	2.38E-06	1.48E-06	1.48E-06	7.32E-07
1515	258364.84	4083448.42	2.06E-06	2.98E-05	2.20E-05	2.20E-05	1.23E-05	3.13E-07	4.54E-06	3.43E-06	3.43E-06	1.89E-06	1.70E-07	2.46E-06	1.53E-06	1.53E-06	7.56E-07
1516	258387.43	4083456.78	2.13E-06	3.08E-05	2.27E-05	2.27E-05	1.27E-05	3.23E-07	4.70E-06	3.55E-06	3.55E-06	1.95E-06	1.76E-07	2.54E-06	1.58E-06	1.58E-06	7.81E-07
1517	258410.02	4083465.15	2.20E-06	3.19E-05	2.35E-05	2.35E-05	1.31E-05	3.35E-07	4.86E-06	3.67E-06	3.67E-06	2.02E-06	1.82E-07	2.63E-06	1.63E-06	1.63E-06	8.08E-07
1518	258432.61	4083473.51	2.28E-06	3.30E-05	2.44E-05	2.44E-05	1.36E-05	3.47E-07	5.03E-06	3.80E-06	3.80E-06	2.09E-06	1.88E-07	2.72E-06	1.69E-06	1.69E-06	8.38E-07
1519	258455.2	4083481.87	2.37E-06	3.42E-05	2.52E-05	2.52E-05	1.41E-05	3.59E-07	5.21E-06	3.94E-06	3.94E-06	2.17E-06	1.95E-07	2.82E-06	1.75E-06	1.75E-06	8.68E-07
1520	258477.79	4083490.24	2.45E-06	3.55E-05	2.62E-05	2.62E-05	1.46E-05	3.73E-07	5.41E-06	4.09E-06	4.09E-06	2.25E-06	2.02E-07	2.93E-06	1.82E-06	1.82E-06	9.00E-07
1521	258500.38	4083498.6	2.55E-06	3.68E-05	2.72E-05	2.72E-05	1.51E-05	3.87E-07	5.61E-06	4.24E-06	4.24E-06	2.33E-06	2.10E-07	3.04E-06	1.89E-06	1.89E-06	9.34E-07
1522	258522.97	4083506.97	2.65E-06	3.83E-05	2.82E-05	2.82E-05	1.57E-05	4.02E-07	5.83E-06	4.41E-06	4.41E-06	2.42E-06	2.18E-07	3.16E-06	1.96E-06	1.96E-06	9.70E-07
1523	258545.57	4083515.33	2.75E-06	3.98E-05	2.94E-05	2.94E-05	1.64E-05	4.18E-07	6.07E-06	4.58E-06	4.58E-06	2.52E-06	2.27E-07	3.28E-06	2.04E-06	2.04E-06	1.01E-06
1524	258568.16	4083523.69	2.87E-06	4.15E-05	3.06E-05	3.06E-05	1.70E-05	4.35E-07	6.32E-06	4.77E-06	4.77E-06	2.62E-06	2.36E-07	3.42E-06	2.12E-06	2.12E-06	1.05E-06
1525	258590.75	4083532.06	2.99E-06	4.32E-05	3.18E-05	3.18E-05	1.78E-05	4.53E-07	6.58E-06	4.97E-06	4.97E-06	2.73E-06	2.46E-07	3.56E-06	2.21E-06	2.21E-06	1.10E-06
1526	258613.34	4083540.42	3.12E-06	4.51E-05	3.32E-05	3.32E-05	1.85E-05	4.73E-07	6.87E-06	5.19E-06	5.19E-06	2.85E-06	2.57E-07	3.72E-06	2.31E-06	2.31E-06	1.14E-06
1527	258635.93	4083548.79	3.25E-06	4.71E-05	3.47E-05	3.47E-05	1.93E-05	4.94E-07	7.17E-06	5.42E-06	5.42E-06	2.98E-06	2.68E-07	3.88E-06	2.41E-06	2.41E-06	1.19E-06
1528	258658.52	4083557.15	3.40E-06	4.92E-05	3.63E-05	3.63E-05	2.02E-05	5.16E-07	7.49E-06	5.66E-06	5.66E-06	3.11E-06	2.80E-07	4.06E-06	2.52E-06	2.52E-06	1.25E-06
1529	258681.11	4083565.51	3.56E-06	5.15E-05	3.79E-05	3.79E-05	2.11E-05	5.40E-07	7.84E-06	5.92E-06	5.92E-06	3.26E-06	2.93E-07	4.24E-06	2.63E-06	2.63E-06	1.30E-06
1530	258703.7	4083573.88	3.72E-06	5.38E-05	3.96E-05	3.96E-05	2.21E-05	5.64E-07	8.19E-06	6.19E-06	6.19E-06	3.40E-06	3.07E-07	4.43E-06	2.75E-06	2.75E-06	1.36E-06
1531	258726.29	4083582.24	3.89E-06	5.63E-05	4.15E-05	4.15E-05	2.31E-05	5.91E-07	8.57E-06	6.48E-06	6.48E-06	3.56E-06	3.21E-07	4.64E-06	2.88E-06	2.88E-06	1.43E-06
1532	258748.88	4083590.61	4.07E-06	5.89E-05	4.34E-05	4.34E-05	2.42E-05	6.18E-07	8.97E-06	6.77E-06	6.77E-06	3.72E-06	3.35E-07	4.85E-06	3.01E-06	3.01E-06	1.49E-06
1533	258771.48	4083598.97	4.25E-06	6.15E-05	4.53E-05	4.53E-05	2.53E-05	6.46E-07	9.37E-06	7.08E-06	7.08E-06	3.89E-06	3.51E-07	5.07E-06	3.15E-06	3.15E-06	1.56E-06
1534	258794.07	4083607.33	4.45E-06	6.43E-05	4.74E-05	4.74E-05	2.64E-05	6.75E-07	9.80E-06	7.40E-06	7.40E-06	4.07E-06	3.67E-07	5.30E-06	3.29E-06	3.29E-06	1.63E-06
1535	258816.66	4083615.7	4.65E-06	6.72E-05	4.95E-05	4.95E-05	2.76E-05	7.05E-07	1.02E-05	7.73E-06	7.73E-06	4.25E-06	3.83E-07	5.54E-06	3.44E-06	3.44E-06	1.70E-06
1536	258839.25	4083624.06	4.85E-06	7.02E-05	5.17E-05	5.17E-05	2.88E-05	7.36E-07	1.07E-05	8.07E-06	8.07E-06	4.44E-06	4.00E-07	5.78E-06	3.59E-06	3.59E-06	1.78E-06
1537	258861.84	4083632.43	5.06E-06	7.32E-05	5.39E-05	5.39E-05	3.01E-05	7.68E-07	1.11E-05	8.42E-06	8.42E-06	4.63E-06	4.17E-07	6.03E-06	3.75E-06	3.75E-06	1.85E-06
1538	258884.43	4083640.79	5.27E-06	7.63E-05	5.62E-05	5.62E-05	3.13E-05	8.00E-07	1.16E-05	8.78E-06	8.78E-06	4.83E-06	4.35E-07	6.29E-06	3.91E-06	3.91E-06	1.93E-06
1539	258907.02	4083649.15	5.49E-06	7.95E-05	5.86E-05	5.86E-05	3.27E-05	8.34E-07	1.21E-05	9.14E-06	9.14E-06	5.03E-06	4.53E-07	6.55E-06	4.07E-06	4.07E-06	2.01E-06
1540	258929.61	4083657.52	5.72E-06	8.27E-05	6.10E-05	6.10E-05	3.40E-05	8.68E-07	1.26E-05	9.52E-06	9.52E-06	5.23E-06	4.71E-07	6.82E-06	4.24E-06	4.24E-06	2.10E-06
1541	258952.2	4083665.88	5.95E-06	8.60E-05	6.34E-05	6.34E-05	3.53E-05	9.02E-07	1.31E-05	9.90E-06	9.90E-06	5.44E-06	4.90E-07	7.09E-06	4.40E-06	4.40E-06	2.18E-06
1542	258974.79	4083674.25	6.18E-06	8.94E-05	6.59E-05	6.59E-05	3.67E-05	9.38E-07	1.36E-05	1.03E-05	1.03E-05	5.65E-06	5.09E-07	7.37E-06	4.58E-06	4.58E-06	2.26E-06
1543	258997.38	4083682.61	6.41E-06	9.27E-05	6.84E-05	6.84E-05	3.81E-05	9.73E-07	1.41E-05	1.07E-05	1.07E-05	5.87E-06	5.29E-07	7.64E-06	4.75E-06	4.75E-06	2.35E-06
1544	259019.98	4083690.97	6.65E-06	9.61E-05	7.09E-05	7.09E-05	3.95E-05	1.01E-06	1.46E-05	1.11E-05	1.11E-05	6.08E-06	5.48E-07	7.92E-06	4.92E-06	4.92E-06	2.44E-06
1545	259042.57	4083699.34	6.88E-06	9.96E-05	7.34E-05	7.34E-05	4.09E-05	1.04E-06	1.52E-05	1.15E-05	1.15E-05	6.30E-06	5.67E-07	8.21E-06	5.10E-06	5.10E-06	2.52E-06
1546	259065.16	4083707.7	7.12E-06	1.03E-04	7.59E-05	7.59E-05	4.23E-05	1.08E-06	1.57E-05	1.18E-05	1.18E-05	6.51E-06	5.87E-07	8.48E-06	5.27E-06	5.27E-06	2.61E-06
1547	259087.75	4083716.07	7.35E-06	1.06E-04	7.83E-05	7.83E-05	4.37E-05	1.12E-06	1.62E-05	1.22E-05	1.22E-05	6.72E-06	6.06E-07	8.76E-06	5.44E-06	5.44E-06	2.69E-06
1548	259110.34	4083724.43	7.58E-06	1.10E-04	8.08E-05	8.08E-05	4.50E-05	1.15E-06	1.67E-05	1.26E-05	1.26E-05	6.93E-06	6.25E-07	9.03E-06	5.61E-06	5.61E-06	2.78E-06
1549	259132.93	4083732.79	7.80E-06	1.13E-04	8.32E-05	8.32E-05	4.64E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.14E-06	6.43E-07	9.30E-06	5.78E-06	5.78E-06	2.86E-06
1550	259155.52	4083741.16	8.02E-06	1.16E-04	8.55E-05	8.55E-05	4.76E-05	1.22E-06	1.77E-05	1.33E-05	1.33E-05	7.34E-06	6.61E-07	9.56E-06	5.94E-06	5.94E-06	2.94E-06
1551	259178.11	4083749.52	8.22E-06	1.19E-04	8.77E-05	8.77E-05	4.89E-05	1.25E-06	1.81E-05	1.37E-05	1.37E-05	7.52E-06	6.78E-07	9.80E-06	6.09E-06	6.09E-06	3.01E-06
1552	259200.7	4083757.89	8.42E-06	1.22E-04	8.98E-05	8.98E-05	5.00E-05	1.28E-06	1.86E-05	1.40E-05	1.40E-05	7.70E-06	6.94E-07	1.00E-05	6.24E-06	6.24E-06	3.09E-06
1553	259223.29	4083766.25	8.60E-06	1.24E-04	9.17E-05	9.17E-05	5.11E-05	1.31E-06	1.90E-05	1.43E-05	1.43E-05	7.87E-06	7.09E-07	1.03E-05	6.37E-06	6.37E-06	3.15E-06
1554	259245.88	4083774.61	8.77E-06	1.27E-04	9.35E-05	9.35E-05	5.21E-05	1.33E-06	1.93E-05	1.46E-05	1.46E-05	8.03E-06	7.23E-07	1.05E-05	6.50E-06	6.50E-06	3.22E-06
1555	259268.48	4083782.98	8.92E-06	1.29E-04	9.51E-05	9.51E-05	5.30E-05	1.35E-06	1.97E-05	1.49E-05	1.49E-05	8.17E-06	7.36E-07	1.06E-05	6.61E-06	6.61E-06	3.27E-06
1556	259291.07	4083791.34	9.06E-06	1.31E-04	9.66E-05	9.66E-05	5.39E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.29E-06	7.47E-07	1.08E-05	6.71E-06	6.71E-06	3.32E-06
1557	259313.66	4083799.71	9.18E-06	1.33E-04	9.79E-05	9.79E-05	5.46E-05	1.39E-06	2.02E-05	1.53E-05	1.53E-05	8.40E-06	7.57E-07	1.09E-05	6.80E-06	6.80E-06	3.37E-06
1558	259336.25	4083808.07	9.29E-06	1.34E-04	9.90E-05	9.90E-05	5.52E-05	1.41E-06	2.05E-05	1.55E-05	1.55E-05	8.50E-06	7.66E-07	1.11E-05	6.88E-06	6.88E-06	3.40E-06
1559	259358.84	4083816.43	9.38E-06	1.36E-04	1.00E-04	1.00E-04	5.57E-05	1.42E-06	2.07E-05	1.56E-05	1.56E-05	8.58E-06	7.73E-07	1.12E-05	6.95E-06	6.95E-06	3.44E-06
1560	259391.36	4083846.75	9.69E-06	1.40E-04	1.03E-04	1.03E-04	5.76E-05	1.47E-06	2.13E-05	1.61E-05	1.61E-05	8.87E-06	7.99E-07	1.16E-05	7.17E-06	7.17E-06	3.55E-06
1561	259401.29	4083868.69	9.92E-06	1.43E-04	1.06E-04	1.06E-04	5.89E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.08E-06	8.18E-07	1.18E-05	7.34E-06	7.34E-06	3.64E-06
1562	259411.22	4083890.64	1.01E-05	1.47E-04	1.08E-04	1.08E-04	6.02E-05	1.54E-06	2.23E-05	1.69E-05	1.69E-05	9.27E-06	8.35E-07	1.21E-05	7.51E-06	7.51E-06	3.72E-06
1563	259421.15	4083912.59	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.46E-06	8.52E-07	1.23E-05	7.65E-06	7.65E-06	3.79E-06
1564	259431.08	4083934.54	1.05E-05	1.52E-04	1.12E-04	1.12E-04	6.25E-05	1.60E-06	2.32E-05	1.75E-05	1.75E-05	9.63E-06	8.67E-07	1.25E-05	7.79E-06	7.79E-06	3.86E-06
1565	259441.01	4083956.49	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.35E-05	1.62E-06	2.36E-05	1.78E-05	1.78E-05	9.78E-06	8.81E-07	1.27E-05	7.92E-06	7.92E-06	3.92E-06
1566	259450.94	4083978.43	1.08E-05	1.57E-04	1.15E-04	1.15E-04	6.44E-05	1.64E-06	2.39E-05	1.80E-05	1.80E-05	9.91E-06	8.93E-07	1.29E-05	8.02E-06	8.02E-06	3.97E-06
1567	259460.87	4084000.38	1.10E-05	1.59E-04	1.17E-04	1.17E-04	6.51E-05	1.66E-06	2.41E-05	1.82E-05	1.82E-05	1.00E-05	9.03E-07	1.31E-05	8.12E-06	8.12E-06	4.02E-06
1568	259470.79	4084022.33	1.11E-05	1.60E-04	1.18E-04	1.18E-04	6.57E-05	1.68E-06	2.44E-05	1.84E-05	1.84E-05	1.01E-05	9.12E-07	1.32E-05	8.19E-06	8.19E-06	4.05E-06
1569	259480.72	4084044.28	1.11E-05	1.61E-04	1.19E-04	1.19E-04	6.62E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.18E-07	1.33E-05	8.25E-06	8.25E-06	4.08E-06
1570	259490.65	4084066.23	1.12E-05	1.62E-04	1.19E-04	1.19E-04	6.65E-05	1.70E-06	2.47E-05	1.86E-05	1.86E-05	1.02E-05	9.22E-07	1.33E-05	8.29E-06	8.29E-06	4.10E-06
1571	259500.58	4084088.17	1.12E-05	1.62E-04	1.20E-04	1.20E-04	6.67E-05	1.70E-06	2.47E-05	1.87E-05	1.87E-05	1.03E-05	9.24E-07	1.34E-05	8.31E-06	8.31E-06	4.11E-06

1572	259510.51	4084110.12	1.12E-05	1.62E-04	1.20E-04	1.20E-04	6.66E-05	1.70E-06	2.47E-05	1.87E-05	1.87E-05	1.03E-05	9.24E-07	1.34E-05	8.30E-06	8.30E-06	4.11E-06
1573	259520.44	4084132.07	1.12E-05	1.62E-04	1.19E-04	1.19E-04	6.65E-05	1.70E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.22E-07	1.33E-05	8.28E-06	8.28E-06	4.10E-06
1574	259530.37	4084154.02	1.11E-05	1.61E-04	1.19E-04	1.19E-04	6.61E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.17E-07	1.33E-05	8.24E-06	8.24E-06	4.08E-06
1575	259540.3	4084175.97	1.10E-05	1.60E-04	1.18E-04	1.18E-04	6.56E-05	1.68E-06	2.43E-05	1.84E-05	1.84E-05	1.01E-05	9.10E-07	1.32E-05	8.18E-06	8.18E-06	4.05E-06
1576	259550.23	4084197.91	1.09E-05	1.58E-04	1.17E-04	1.17E-04	6.50E-05	1.66E-06	2.41E-05	1.82E-05	1.82E-05	1.00E-05	9.01E-07	1.30E-05	8.10E-06	8.10E-06	4.01E-06
1577	259560.16	4084219.86	1.08E-05	1.56E-04	1.15E-04	1.15E-04	6.42E-05	1.64E-06	2.38E-05	1.80E-05	1.80E-05	9.89E-06	8.91E-07	1.29E-05	8.00E-06	8.00E-06	3.96E-06
1578	259570.09	4084241.81	1.07E-05	1.54E-04	1.14E-04	1.14E-04	6.33E-05	1.62E-06	2.35E-05	1.77E-05	1.77E-05	9.75E-06	8.78E-07	1.27E-05	7.89E-06	7.89E-06	3.91E-06
1579	259580.02	4084263.76	1.05E-05	1.52E-04	1.12E-04	1.12E-04	6.23E-05	1.59E-06	2.31E-05	1.75E-05	1.75E-05	9.60E-06	8.65E-07	1.25E-05	7.77E-06	7.77E-06	3.85E-06
1580	259589.95	4084285.71	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.13E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.44E-06	8.50E-07	1.23E-05	7.64E-06	7.64E-06	3.78E-06
1581	259599.88	4084307.65	1.01E-05	1.46E-04	1.08E-04	1.08E-04	6.02E-05	1.54E-06	2.23E-05	1.69E-05	1.69E-05	9.27E-06	8.35E-07	1.21E-05	7.50E-06	7.50E-06	3.71E-06
1582	259609.81	4084329.6	9.94E-06	1.44E-04	1.06E-04	1.06E-04	5.91E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.09E-06	8.19E-07	1.18E-05	7.36E-06	7.36E-06	3.64E-06
1583	259619.74	4084351.55	9.75E-06	1.41E-04	1.04E-04	1.04E-04	5.80E-05	1.48E-06	2.15E-05	1.62E-05	1.62E-05	8.92E-06	8.04E-07	1.16E-05	7.22E-06	7.22E-06	3.57E-06
1584	259629.67	4084373.5	9.57E-06	1.38E-04	1.02E-04	1.02E-04	5.69E-05	1.45E-06	2.11E-05	1.59E-05	1.59E-05	8.75E-06	7.89E-07	1.14E-05	7.09E-06	7.09E-06	3.51E-06
1585	259639.59	4084395.45	9.39E-06	1.36E-04	1.00E-04	1.00E-04	5.58E-05	1.42E-06	2.07E-05	1.56E-05	1.56E-05	8.59E-06	7.74E-07	1.12E-05	6.95E-06	6.95E-06	3.44E-06
1586	259649.52	4084417.39	9.25E-06	1.34E-04	9.86E-05	9.86E-05	5.49E-05	1.40E-06	2.04E-05	1.54E-05	1.54E-05	8.46E-06	7.62E-07	1.10E-05	6.85E-06	6.85E-06	3.39E-06
1587	259659.45	4084439.34	9.07E-06	1.31E-04	9.67E-05	9.67E-05	5.39E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.30E-06	7.48E-07	1.08E-05	6.72E-06	6.72E-06	3.32E-06
1588	259669.38	4084461.29	8.89E-06	1.29E-04	9.48E-05	9.48E-05	5.28E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.14E-06	7.33E-07	1.06E-05	6.58E-06	6.58E-06	3.26E-06
1589	259679.31	4084483.24	8.70E-06	1.26E-04	9.27E-05	9.27E-05	5.17E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.96E-06	7.17E-07	1.04E-05	6.44E-06	6.44E-06	3.19E-06
1590	259689.24	4084505.19	8.50E-06	1.23E-04	9.06E-05	9.06E-05	5.05E-05	1.29E-06	1.87E-05	1.41E-05	1.41E-05	7.77E-06	7.00E-07	1.01E-05	6.29E-06	6.29E-06	3.11E-06
1591	259699.17	4084527.13	8.28E-06	1.20E-04	8.82E-05	8.82E-05	4.92E-05	1.26E-06	1.82E-05	1.38E-05	1.38E-05	7.57E-06	6.82E-07	9.87E-06	6.13E-06	6.13E-06	3.03E-06
1592	259709.1	4084549.08	8.04E-06	1.16E-04	8.57E-05	8.57E-05	4.78E-05	1.22E-06	1.77E-05	1.34E-05	1.34E-05	7.36E-06	6.63E-07	9.58E-06	5.95E-06	5.95E-06	2.95E-06
1593	259719.03	4084571.03	7.79E-06	1.13E-04	8.30E-05	8.30E-05	4.63E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.13E-06	6.42E-07	9.28E-06	5.77E-06	5.77E-06	2.85E-06
1594	259728.96	4084592.98	7.52E-06	1.09E-04	8.02E-05	8.02E-05	4.47E-05	1.14E-06	1.66E-05	1.25E-05	1.25E-05	6.89E-06	6.20E-07	8.97E-06	5.57E-06	5.57E-06	2.76E-06
1595	259738.89	4084614.93	7.26E-06	1.05E-04	7.74E-05	7.74E-05	4.32E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.65E-06	5.99E-07	8.66E-06	5.38E-06	5.38E-06	2.66E-06
1596	259748.82	4084636.87	7.00E-06	1.01E-04	7.47E-05	7.47E-05	4.16E-05	1.06E-06	1.54E-05	1.17E-05	1.17E-05	6.41E-06	5.77E-07	8.35E-06	5.19E-06	5.19E-06	2.57E-06
1597	259758.75	4084658.82	6.76E-06	9.78E-05	7.21E-05	7.21E-05	4.02E-05	1.03E-06	1.49E-05	1.13E-05	1.13E-05	6.19E-06	5.57E-07	8.06E-06	5.01E-06	5.01E-06	2.48E-06
1598	259768.68	4084680.77	6.54E-06	9.46E-05	6.97E-05	6.97E-05	3.89E-05	9.92E-07	1.44E-05	1.09E-05	1.09E-05	5.98E-06	5.39E-07	7.80E-06	4.84E-06	4.84E-06	2.40E-06
1599	259778.61	4084702.72	6.34E-06	9.17E-05	6.76E-05	6.76E-05	3.77E-05	9.62E-07	1.40E-05	1.05E-05	1.05E-05	5.80E-06	5.22E-07	7.56E-06	4.69E-06	4.69E-06	2.32E-06
1600	259788.54	4084724.67	6.16E-06	8.91E-05	6.56E-05	6.56E-05	3.66E-05	9.35E-07	1.36E-05	1.02E-05	1.02E-05	5.63E-06	5.08E-07	7.34E-06	4.56E-06	4.56E-06	2.26E-06
1601	259798.47	4084746.61	5.99E-06	8.67E-05	6.39E-05	6.39E-05	3.56E-05	9.09E-07	1.32E-05	9.97E-06	9.97E-06	5.48E-06	4.94E-07	7.14E-06	4.44E-06	4.44E-06	2.20E-06
1602	259808.39	4084768.56	5.84E-06	8.44E-05	6.22E-05	6.22E-05	3.47E-05	8.86E-07	1.29E-05	9.71E-06	9.71E-06	5.34E-06	4.81E-07	6.96E-06	4.32E-06	4.32E-06	2.14E-06
1603	259818.32	4084790.51	5.68E-06	8.22E-05	6.06E-05	6.06E-05	3.38E-05	8.63E-07	1.25E-05	9.46E-06	9.46E-06	5.20E-06	4.69E-07	6.78E-06	4.21E-06	4.21E-06	2.08E-06
1604	259828.25	4084812.46	5.53E-06	8.00E-05	5.90E-05	5.90E-05	3.29E-05	8.39E-07	1.22E-05	9.21E-06	9.21E-06	5.06E-06	4.56E-07	6.59E-06	4.10E-06	4.10E-06	2.03E-06
1605	259838.18	4084834.41	5.37E-06	7.77E-05	5.73E-05	5.73E-05	3.19E-05	8.15E-07	1.18E-05	8.94E-06	8.94E-06	4.92E-06	4.43E-07	6.41E-06	3.98E-06	3.98E-06	1.97E-06
1606	259848.11	4084856.35	5.21E-06	7.53E-05	5.55E-05	5.55E-05	3.10E-05	7.91E-07	1.15E-05	8.67E-06	8.67E-06	4.77E-06	4.29E-07	6.21E-06	3.86E-06	3.86E-06	1.91E-06
1607	258297.07	4083423.33	1.87E-06	2.71E-05	2.00E-05	2.00E-05	1.11E-05	2.85E-07	4.13E-06	3.12E-06	3.12E-06	1.72E-06	1.55E-07	2.24E-06	1.39E-06	1.39E-06	6.87E-07
1608	258272.73	4083424.33	1.84E-06	2.66E-05	1.96E-05	1.96E-05	1.09E-05	2.79E-07	4.05E-06	3.06E-06	3.06E-06	1.68E-06	1.52E-07	2.19E-06	1.36E-06	1.36E-06	6.74E-07
1609	258248.4	4083425.33	1.80E-06	2.61E-05	1.92E-05	1.92E-05	1.07E-05	2.74E-07	3.97E-06	3.00E-06	3.00E-06	1.65E-06	1.49E-07	2.15E-06	1.34E-06	1.34E-06	6.61E-07
1610	258224.07	4083426.33	1.77E-06	2.56E-05	1.89E-05	1.89E-05	1.05E-05	2.69E-07	3.90E-06	2.95E-06	2.95E-06	1.62E-06	1.46E-07	2.11E-06	1.31E-06	1.31E-06	6.49E-07
1611	258199.74	4083427.33	1.74E-06	2.51E-05	1.85E-05	1.85E-05	1.03E-05	2.64E-07	3.83E-06	2.89E-06	2.89E-06	1.59E-06	1.43E-07	2.07E-06	1.29E-06	1.29E-06	6.37E-07
1612	258175.41	4083428.33	1.71E-06	2.47E-05	1.82E-05	1.82E-05	1.01E-05	2.59E-07	3.76E-06	2.84E-06	2.84E-06	1.56E-06	1.41E-07	2.04E-06	1.26E-06	1.26E-06	6.26E-07
1613	258151.07	4083429.33	1.68E-06	2.42E-05	1.79E-05	1.79E-05	9.96E-06	2.54E-07	3.69E-06	2.79E-06	2.79E-06	1.53E-06	1.38E-07	2.00E-06	1.24E-06	1.24E-06	6.14E-07
1614	258126.74	4083430.33	1.65E-06	2.38E-05	1.75E-05	1.75E-05	9.78E-06	2.50E-07	3.63E-06	2.74E-06	2.74E-06	1.51E-06	1.36E-07	1.96E-06	1.22E-06	1.22E-06	6.03E-07
1615	258102.41	4083431.33	1.61E-06	2.34E-05	1.72E-05	1.72E-05	9.60E-06	2.45E-07	3.56E-06	2.69E-06	2.69E-06	1.48E-06	1.33E-07	1.93E-06	1.20E-06	1.20E-06	5.92E-07
1616	258078.08	4083432.33	1.58E-06	2.29E-05	1.69E-05	1.69E-05	9.41E-06	2.40E-07	3.49E-06	2.64E-06	2.64E-06	1.45E-06	1.31E-07	1.89E-06	1.17E-06	1.17E-06	5.81E-07
1617	258053.75	4083433.33	1.56E-06	2.25E-05	1.66E-05	1.66E-05	9.24E-06	2.36E-07	3.43E-06	2.59E-06	2.59E-06	1.42E-06	1.28E-07	1.85E-06	1.15E-06	1.15E-06	5.70E-07
1618	258029.42	4083434.33	1.52E-06	2.21E-05	1.63E-05	1.63E-05	9.06E-06	2.31E-07	3.36E-06	2.54E-06	2.54E-06	1.40E-06	1.26E-07	1.82E-06	1.13E-06	1.13E-06	5.59E-07
1619	258005.08	4083435.33	1.50E-06	2.16E-05	1.59E-05	1.59E-05	8.89E-06	2.27E-07	3.30E-06	2.49E-06	2.49E-06	1.37E-06	1.23E-07	1.78E-06	1.11E-06	1.11E-06	5.48E-07
1620	257980.75	4083436.33	1.47E-06	2.12E-05	1.56E-05	1.56E-05	8.71E-06	2.22E-07	3.23E-06	2.44E-06	2.44E-06	1.34E-06	1.21E-07	1.75E-06	1.09E-06	1.09E-06	5.37E-07
1621	257956.42	4083437.33	1.44E-06	2.08E-05	1.53E-05	1.53E-05	8.54E-06	2.18E-07	3.17E-06	2.39E-06	2.39E-06	1.31E-06	1.18E-07	1.71E-06	1.06E-06	1.06E-06	5.27E-07
1622	257932.09	4083438.33	1.41E-06	2.04E-05	1.50E-05	1.50E-05	8.38E-06	2.14E-07	3.11E-06	2.35E-06	2.35E-06	1.29E-06	1.16E-07	1.68E-06	1.04E-06	1.04E-06	5.17E-07
1623	257907.76	4083439.33	1.38E-06	2.00E-05	1.47E-05	1.47E-05	8.21E-06	2.10E-07	3.04E-06	2.30E-06	2.30E-06	1.26E-06	1.14E-07	1.65E-06	1.02E-06	1.02E-06	5.06E-07
1624	257883.42	4083440.33	1.35E-06	1.96E-05	1.44E-05	1.44E-05	8.05E-06	2.06E-07	2.98E-06	2.25E-06	2.25E-06	1.24E-06	1.12E-07	1.61E-06	1.00E-06	1.00E-06	4.97E-07
1625	257859.09	4083441.33	1.33E-06	1.92E-05	1.42E-05	1.42E-05	7.90E-06	2.02E-07	2.93E-06	2.21E-06	2.21E-06	1.22E-06	1.10E-07	1.59E-06	9.85E-07	9.85E-07	4.87E-07
1626	257834.76	4083442.33	1.31E-06	1.89E-05	1.39E-05	1.39E-05	7.76E-06	1.98E-07	2.88E-06	2.17E-06	2.17E-06	1.19E-06	1.08E-07	1.56E-06	9.67E-07	9.67E-07	4.78E-07
1627	257810.43	4083443.33	1.28E-06	1.86E-05	1.37E-05	1.37E-05	7.62E-06	1.95E-07	2.83E-06	2.14E-06	2.14E-06	1.17E-06	1.06E-07	1.53E-06	9.50E-07	9.50E-07	4.70E-07
1628	257786.1	4083444.33	1.26E-06	1.82E-05	1.34E-05	1.34E-05	7.49E-06	1.91E-07	2.78E-06	2.10E-06	2.10E-06	1.15E-06	1.04E-07	1.50E-06	9.33E-07	9.33E-07	4.62E-07
1629	257761.77	4083445.33	1.24E-06	1.79E-05	1.32E-05	1.32E-05	7.37E-06	1.88E-07	2.73E-06	2.06E-06	2.06E-06	1.13E-06	1.02E-07	1.48E-06	9.18E-07	9.18E-07	4.54E-07
1630	257737.43	4083446.33	1.22E-06	1.76E-05	1.30E-05	1.30E-05	7.25E-06	1.85E-07	2.69E-06	2.03E-06	2.03E-06	1.12E-06	1.00E-07	1.45E-06	9.03E-07	9.03E-07	4.47E-07
1631	257713.1	4083447.33	1.20E-06	1.74E-05	1.28E-05	1.28E-05	7.14E-06	1.82E-07	2.65E-06	2.00E-06	2.00E-06	1.10E-06	9.90E-08	1.43E-06	8.89E-07	8.89E-07	4.40E-07
1632	257688.77	4083448.33	1.18E-06	1.71E-05	1.26E-05	1.26E-05	7.03E-06	1.79E-07	2.61E-06	1.97E-06	1.97E-06	1.08E-06	9.75E-08	1.41E-06	8.76E-07	8.76E-07	4.33E-07
1633	257664.44	4083449.33	1.17E-06	1.69E-05	1.24E-05	1.24E-05	6.93E-06	1.77E-07	2.57E-06	1.94E-06	1.94E-06	1.07E-06	9.61E-08	1.39E-06	8.63E-07	8.63E-07	4.27E-07
1634	257640.11	4083450.33	1.15E-06	1.66E-05	1.23E-05	1.23E-05	6.83E-06	1.74E-07	2.53E-06	1.91E-06	1.91E-06	1.05E-06	9.48E-08	1.37E-06	8.51E-07	8.51E-07	4.21E-07
1635	257615.77	4083451.33	1.13E-06	1.64E-05	1.21E-05	1.21E-05	6.73E-06	1.72E-07	2.50E-06	1.89E-06	1.89E-06	1.04E-06	9.34E-08	1.35E-06	8.39E-07	8.39E-07	4.15E-07
1636	257591.44	4083452.33	1.12E-06	1.62E-05	1.19E-05	1.19E-05	6.65E-06	1.70E-07	2.47E-06	1.86E-06	1.86E-06	1.02E-06	9.22E-08	1.33E-06	8.29E-07	8.29E-07	4.10E-07
1637	257567.11	4083453.34	1.10E-06	1.60E-05	1.18E-05	1.18E-05	6.56E-06	1.68E-07	2.43E-06	1.84E-06	1.84E-06	1.01E-06	9.10E-08	1.32E-06	8.18E-07	8.18E-07	4.05E-07
1638	257542.78	4083454.34	1.09E-06	1.58E-05	1.16E-05	1.16E-05	6.48E-06	1.65E-07	2.40E-06	1.81E-06	1.81E-06	9.98E-07	8.99E-08	1.30E-06	8.07E-07	8.07E-07	4.00E-07
1639	257518.45	4083455.34	1.08E-06	1.56E-05	1.15E-05	1.15E-05	6.39E-06	1.63E-07	2.37E-06	1.79E-06	1.79E-06	9.84E-07	8.87E-08	1.28E-06	7.97E-07	7.97E-07	3.94E-07
1640	257494.12	4083456.34	1.06E-06	1.54E-05	1.13E-05	1.13E-05	6.32E-06	1.61E-07	2.34E-06	1.77E-06	1.77E-06	9.73E-07	8.77E-08	1.27E-06	7.88E-07	7.88E-07	3.90E-07
1641	257530.75	4084956	8.13E-05	1.18E-03	8.67E-04	8.67E-04	4.83E-04	1.23E-05	1.79E-04	1.35E-04	1.35E-04	7.44E-05	6.70E-06	9.69E-05	6.02E-05	6.02E-05	2.98E-05
1642	257532.4	4085000.56	2.15E-04	3.12E-03	2.30E-03	2.30E-03	1.28E-03	3.27E-05	4.75E-04	3.59E-04	3.59E-04	1.97E-04	1.78E-05	2.57E-04	1.60E-04	1.60E-04	7.90E-05
1643	257534.05	4085045.12	3.42E-04	4.95E-03	3.65E-03	3.65E-03	2.03E-03	5.20E-05	7.54E-04	5.70E-04	5.70E-04	3.13E-04	2.82E-05	4.08E-04	2.54E-04	2.54E-04	1.25E-04
1644	257534.87	4085067.4	3.83E-04	5.54E-03	4.08E-03	4.08E-03	2.27E-03	5.81E-05	8.43E-04	6.37E-04	6.37E-04	3.50E-04	3.15E-05	4.56E-04	2.83E-04	2.83E-04	1.40E-04
1645	257536.53	4085111.96	4.30E-04	6.22E-03	4.59E-03	4.59E-03	2.56E-03	6.53E-05	9.48E-04	7.16E-04	7.16E-04	3.94E-04	3.55E-05	5.13E-04	3.19E-04	3.19E-04	1.58E-04
1646	257538.18	4085156.53	4.16E-04	6.02E-03	4.44E-03	4.44E-03	2.47E-03	6.32E-05	9.17E-04	6.93E-04	6.93E-04	3.81E-04	3.43E-05	4.96E-04	3.08E-04	3.08E-04	1.53E-04
1647	257512.39	4084939.02	5.09E-05	7.36E-04	5.42E-04	5.42E-04	3.02E-04	7.72E-06	1.12E-04	8.47E-05	8.47E-05	4.66E-05	4.19E-06	6.07E-05	3.77E-05	3.77E-05	1.86E-05
1648	257506.59	4084979.2	8.53E-05	1.23E-03	9.09E-04	9.09E-04	5.07E-04	1.29E-05	1.88E-04	1.42E-04	1.42E-04	7.81E-05	7.03E-06	1.02E-04	6.32E-05	6.32E-05	3.13E-05
1649	257508.24	4085023.76	1.63E-04	2.35E-03	1.74E-03	1.74E-03	9.68E-04	2.47E-05	3.59E-04	2.71E-04	2.71E-04	1.49E-04	1.34E-05	1.94E-04	1.21E-04	1.21E-04	5.97E-05
1650	257509.89	4085068.33	2.32E-04	3.36E-03	2.47E-03	2.47E-03	1.38E-03	3.52E-05	5.12E-04	3.86E-04	3.86E-04	2.12E-04	1.91E-05	2.77E-04	1.72E-04	1.72E-04	8.51E-05
1651	257511.54	4085112.89	2.74E-04	3.97E-03	2.93E-03	2.93E-03	1.63E-03	4.16E-05	6.05E-04	4.57E-04	4.57E-04	2.51E-04	2.26E-05	3.27E-04	2.03E-04	2.03E-04	1.01E-04
1652	257513.19	4085157.45	2.82E-04	4.07E-03	3.00E-03	3.00E-03	1.67E-03	4.28E-05	6.21E-04	4.69E-04	4.69E-04	2.58E-04	2.32E-05	3.36E-04	2.09E-04	2.09E-04	1.03E-04
1653	257487.41	4084939.95	4.20E-05	6.07E-04	4.47E-04	4.47E-04	2.49E-04	6.37E-06	9.25E-05	6.99E-05	6.99E-05	3.84E-05	3.46E-06	5.00E-05	3.11E-05	3.11E-05	1.54E-05
1654	257517.99	4084896.14	3.36E-05	4.86E-04	3.58E-04	3.58E-04	2.00E-04	5.10E-06	7.41E-05	5.60E-05	5.60E-05	3.08E-05	2.77E-06	4.01E-05	2.49E-05	2.49E-05	1.23E-05
1655	257481.61	4084980.13	6.30E-05	9.11E-04	6.71E-04	6.71E-04	3.74E-04	9.56E-06	1.39E-04	1.05E-04	1.05E-04	5.76E-05	5.19E-06	7.51E-05	4.66E-05	4.66E-05	2.31E-05
1656	257483.26	4085024.69	1.07E-04	1.55E-03	1.14E-03	1.14E-03	6.36E-04	1.62E-05	2.36E-04	1.78E-04	1.78E-04	9.79E-05	8.82E-06	1.28E-04	7.92E-05	7.92E-05	3.92E-05
1657	257484.91	4085069.25	1.56E-04	2.26E-03	1.66E-03	1.66E-03	9.27E-04	2.37E-05	3.44E-04	2.60E-04	2.60E-04	1.43E-04	1.29E-05	1.86E-04	1.15E-04	1.15E-04	5.72E-05
1658	257486.56	4085113.81	1.91E-04	2.77E-03	2.04E-03	2.04E-03	1.14E-03	2.90E-05	4.22E-04	3.18E-04	3.18E-04	1.75E-04	1.58E-05	2.28E-04	1.42E-04	1.42E-04	7.01E-05
1659	257488.21	4085158.38	2.05E-04	2.97E-03	2.19E-03	2.19E-03	1.22E-03	3.12E-05	4.52E-04	3.42E-04	3.42E-04	1.88E-04	1.69E-05	2.45E-04	1.52E-04	1.52E-04	7.53E-05
1660	257462.43	4084940.87	3.56E-05	5.15E-04	3.79E-04	3.79E-04	2.12E-04	5.40E-06	7.84E-05	5.92E-05	5.92E-05	3.26E-05	2.93E-06	4.24E-05	2.64E-05	2.64E-05	1.30E-05
1661	257475.68	4084905.07	2.84E-05	4.11E-04	3.03E-04	3.03E-04	1.69E-04	4.32E-06	6.27E-05	4.73E-05	4.73E-05	2.60E-05	2.34E-06	3.39E-05	2.11E-05	2.11E-05	1.04E-05
1662	257499.64	4084879.17	2.64E-05	3.81E-04	2.81E-04	2.81E-04	1.57E-04	4.00E-06	5.81E-05	4.39E-05	4.39E-05	2.41E-05	2.17E-06	3.14E-05	1.95E-05	1.95E-05	9.66E-06
1663	257456.62	4084981.05	5.00E-05	7.23E-04	5.33E-04	5.33E-04	2.97E-04	7.58E-06	1.10E-04	8.32E-05	8.32E-05	4.57E-05	4.12E-06	5.96E-05	3.70E-05	3.70E-05	1.83E-05
1664	257458.28	4085025.62	7.75E-05	1.12E-03	8.26E-04	8.26E-04	4.61E-04	1.18E-05	1.71E-04	1.29E-04	1.29E-04	7.09E-05	6.39E-06	9.24E-05	5.74E-05	5.74E-05	2.84E-05
1665	257459.1	4085047.9	9.46E-05	1.37E-03	1.01E-03	1.01E-03	5.63E-04	1.44E-05	2.09E-04	1.58E-04	1.58E-04	8.66E-05	7.80E-06	1.13E-04	7.01E-05	7.01E-05	3.47E-05
1666	257460.75	4085092.46	1.28E-04	1.85E-03	1.36E-03	1.36E-03	7.58E-04	1.94E-05	2.81E-04	2.12E-04	2.12E-04	1.17E-04	1.05E-05	1.52E-04	9.45E-05	9.45E-05	4.68E-05
1667	257462.4	4085137.02	1.50E-04	2.18E-03	1.60E-03	1.60E-03	8.94E-04	2.28E-05	3.31E-04	2.50E-04	2.50E-04	1.38E-04	1.24E-05	1.79E-04	1.11E-04	1.11E-04	5.51E-05
1668	257412.46	4084942.72	2.71E-05	3.92E-04	2.89E-04	2.89E-04	1.61E-04	4.11E-06	5.97E-05	4.51E-05	4.51E-05	2.48E-05	2.23E-06	3.23E-05	2.01E-05	2.01E-05	9.93E-06
1669	257425.72	4084906.93	2.25E-05	3.26E-04	2.40E-04	2.40E-04	1.34E-04	3.42E-06	4.97E-05	3.75E-05	3.75E-05	2.06E-05	1.86E-06	2.69E-05	1.67E-05	1.67E-05	8.26E-06
1670	257438.97	4084871.13	1.91E-05	2.76E-04	2.03E-04	2.03E-04	1.13E-04	2.90E-06	4.21E-05	3.18E-05	3.18E-05	1.75E-05	1.57E-06	2.28E-05	1.41E-05	1.41E-05	7.00E-06
1671	257462.93	4084845.22	1.80E-05	2.60E-04	1.92E-04	1.92E-04	1.07E-04	2.73E-06	3.96E-05	2.99E-05	2.99E-05	1.65E-05	1.48E-06	2.14E-05	1.33E-05	1.33E-05	6.59E-06
1672	257497.59	4084829.21	1.87E-05	2.70E-04	1.99E-04	1.99E-04	1.11E-04	2.83E-06	4.11E-05	3.11E-05	3.11E-05	1.71E-05	1.54E-06	2.22E-05	1.38E-05	1.38E-05	6.84E-06
1673	257406.66	4084982.91	3.52E-05	5.09E-04	3.75E-04	3.75E-04	2.09E-04	5.34E-06	7.75E-05	5.85E-05	5.85E-05	3.22E-05	2.90E-06	4.19E-05	2.60E-05	2.60E-05	1.29E-05
1674	257408.31	4085027.47	4.86E-05	7.03E-04	5.18E-04	5.18E-04	2.89E-04	7.38E-06	1.07E-04	8.09E-05	8.09E-05	4.45E-05	4.01E-06	5.79E-05	3.60E-05	3.60E-05	1.78E-05
1675	257409.96	4085072.03	6.61E-05	9.57E-04	7.05E-04	7.05E-04	3.93E-04	1.00E-05	1.46E-04	1.10E-04	1.10E-04	6.05E-05	5.45E-06	7.89E-05	4.90E-05	4.90E-05	2.42E-05
1676	257411.61	4085116.59	8.44E-05	1.22E-03	8.99E-04	8.99E-04	5.01E-04	1.28E-05	1.86E-04	1.40E-04	1.40E-04	7.72E-05	6.95E-06	1.01E-04	6.25E-05	6.25E-05	3.09E-05

1677	257413.26	4085161.15	9.78E-05	1.41E-03	1.04E-03	1.04E-03	5.81E-04	1.48E-05	2.16E-04	1.63E-04	1.63E-04	8.95E-05	8.06E-06	1.17E-04	7.24E-05	7.24E-05	3.59E-05
1678	257363.44	4084942.02	2.14E-05	3.10E-04	2.28E-04	2.28E-04	1.27E-04	3.25E-06	4.72E-05	3.56E-05	3.56E-05	1.96E-05	1.76E-06	2.55E-05	1.58E-05	1.58E-05	7.84E-06
1679	257378.59	4084901.11	1.79E-05	2.59E-04	1.91E-04	1.91E-04	1.06E-04	2.72E-06	3.94E-05	2.98E-05	2.98E-05	1.64E-05	1.48E-06	2.13E-05	1.33E-05	1.33E-05	6.56E-06
1680	257393.74	4084860.19	1.52E-05	2.20E-04	1.62E-04	1.62E-04	9.06E-05	2.31E-06	3.36E-05	2.54E-05	2.54E-05	1.39E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.59E-06
1681	257428.7	4084810.13	1.34E-05	1.93E-04	1.42E-04	1.42E-04	7.94E-05	2.03E-06	2.94E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.90E-06	9.90E-06	4.90E-06
1682	257468.3	4084791.83	1.38E-05	1.99E-04	1.47E-04	1.47E-04	8.19E-05	2.09E-06	3.04E-05	2.29E-05	2.29E-05	1.26E-05	1.14E-06	1.64E-05	1.02E-05	1.02E-05	5.05E-06
1683	257507.91	4084773.54	1.42E-05	2.06E-04	1.52E-04	1.52E-04	8.46E-05	2.16E-06	3.14E-05	2.37E-05	2.37E-05	1.30E-05	1.17E-06	1.70E-05	1.05E-05	1.05E-05	5.22E-06
1684	257356.69	4084984.76	2.69E-05	3.89E-04	2.87E-04	2.87E-04	1.60E-04	4.08E-06	5.93E-05	4.48E-05	4.48E-05	2.46E-05	2.22E-06	3.21E-05	1.99E-05	1.99E-05	9.86E-06
1685	257358.34	4085029.32	3.49E-05	5.04E-04	3.72E-04	3.72E-04	2.07E-04	5.29E-06	7.68E-05	5.80E-05	5.80E-05	3.19E-05	2.87E-06	4.16E-05	2.58E-05	2.58E-05	1.28E-05
1686	257359.99	4085073.88	4.46E-05	6.45E-04	4.75E-04	4.75E-04	2.65E-04	6.77E-06	9.82E-05	7.42E-05	7.42E-05	4.08E-05	3.68E-06	5.32E-05	3.30E-05	3.30E-05	1.63E-05
1687	257361.65	4085118.44	5.57E-05	8.06E-04	5.94E-04	5.94E-04	3.31E-04	8.46E-06	1.23E-04	9.28E-05	9.28E-05	5.10E-05	4.60E-06	6.65E-05	4.13E-05	4.13E-05	2.04E-05
1688	257363.3	4085163.01	6.59E-05	9.53E-04	7.03E-04	7.03E-04	3.92E-04	1.00E-05	1.45E-04	1.10E-04	1.10E-04	6.03E-05	5.43E-06	7.86E-05	4.88E-05	4.88E-05	2.42E-05
1689	257313.27	4084944.44	1.78E-05	2.57E-04	1.90E-04	1.90E-04	1.06E-04	2.70E-06	3.92E-05	2.96E-05	2.96E-05	1.63E-05	1.47E-06	2.12E-05	1.32E-05	1.32E-05	6.52E-06
1690	257328	4084904.66	1.52E-05	2.20E-04	1.62E-04	1.62E-04	9.04E-05	2.31E-06	3.35E-05	2.53E-05	2.53E-05	1.39E-05	1.25E-06	1.81E-05	1.13E-05	1.13E-05	5.58E-06
1691	257342.73	4084864.88	1.32E-05	1.91E-04	1.41E-04	1.41E-04	7.85E-05	2.00E-06	2.91E-05	2.20E-05	2.20E-05	1.21E-05	1.09E-06	1.57E-05	9.78E-06	9.78E-06	4.84E-06
1692	257357.46	4084825.11	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.91E-05	1.76E-06	2.56E-05	1.93E-05	1.93E-05	1.06E-05	9.58E-07	1.39E-05	8.60E-06	8.60E-06	4.26E-06
1693	257391.44	4084776.44	1.04E-05	1.51E-04	1.11E-04	1.11E-04	6.19E-05	1.58E-06	2.30E-05	1.73E-05	1.73E-05	9.53E-06	8.59E-07	1.24E-05	7.72E-06	7.72E-06	3.82E-06
1694	257429.94	4084758.65	1.07E-05	1.54E-04	1.14E-04	1.14E-04	6.34E-05	1.62E-06	2.35E-05	1.77E-05	1.77E-05	9.76E-06	8.79E-07	1.27E-05	7.90E-06	7.90E-06	3.91E-06
1695	257468.45	4084740.86	1.09E-05	1.58E-04	1.16E-04	1.16E-04	6.48E-05	1.65E-06	2.40E-05	1.81E-05	1.81E-05	9.97E-06	8.98E-07	1.30E-05	8.07E-06	8.07E-06	3.99E-06
1696	257506.96	4084723.07	1.12E-05	1.62E-04	1.19E-04	1.19E-04	6.65E-05	1.70E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.22E-07	1.33E-05	8.28E-06	8.28E-06	4.10E-06
1697	257306.73	4084986.61	2.17E-05	3.13E-04	2.31E-04	2.31E-04	1.29E-04	3.29E-06	4.77E-05	3.61E-05	3.61E-05	1.98E-05	1.79E-06	2.58E-05	1.60E-05	1.60E-05	7.94E-06
1698	257307.55	4085008.89	2.42E-05	3.50E-04	2.58E-04	2.58E-04	1.44E-04	3.68E-06	5.34E-05	4.03E-05	4.03E-05	2.22E-05	2.00E-06	2.89E-05	1.79E-05	1.79E-05	8.88E-06
1699	257309.2	4085053.45	2.98E-05	4.31E-04	3.18E-04	3.18E-04	1.77E-04	4.52E-06	6.56E-05	4.96E-05	4.96E-05	2.73E-05	2.46E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
1700	257310.85	4085098.01	3.62E-05	5.24E-04	3.86E-04	3.86E-04	2.15E-04	5.49E-06	7.98E-05	6.03E-05	6.03E-05	3.31E-05	2.98E-06	4.32E-05	2.68E-05	2.68E-05	1.33E-05
1701	257312.51	4085142.58	4.33E-05	6.27E-04	4.62E-04	4.62E-04	2.58E-04	6.58E-06	9.55E-05	7.21E-05	7.21E-05	3.96E-05	3.57E-06	5.17E-05	3.21E-05	3.21E-05	1.59E-05
1702	257263.17	4084946.65	1.52E-05	2.19E-04	1.62E-04	1.62E-04	9.01E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.81E-05	1.12E-05	1.12E-05	5.56E-06
1703	257277.63	4084907.6	1.32E-05	1.90E-04	1.40E-04	1.40E-04	7.82E-05	2.00E-06	2.90E-05	2.19E-05	2.19E-05	1.20E-05	1.08E-06	1.57E-05	9.74E-06	9.74E-06	4.82E-06
1704	257292.09	4084868.54	1.16E-05	1.67E-04	1.23E-04	1.23E-04	6.87E-05	1.75E-06	2.55E-05	1.92E-05	1.92E-05	1.06E-05	9.53E-07	1.38E-05	8.56E-06	8.56E-06	4.24E-06
1705	257306.55	4084829.49	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.12E-05	1.56E-06	2.27E-05	1.71E-05	1.71E-05	9.42E-06	8.49E-07	1.23E-05	7.63E-06	7.63E-06	3.78E-06
1706	257321.01	4084790.44	9.25E-06	1.34E-04	9.86E-05	9.86E-05	5.50E-05	1.40E-06	2.04E-05	1.54E-05	1.54E-05	8.47E-06	7.63E-07	1.10E-05	6.85E-06	6.85E-06	3.39E-06
1707	257354.38	4084742.65	8.42E-06	1.22E-04	8.98E-05	8.98E-05	5.00E-05	1.28E-06	1.86E-05	1.40E-05	1.40E-05	7.70E-06	6.94E-07	1.00E-05	6.24E-06	6.24E-06	3.09E-06
1708	257392.18	4084725.19	8.57E-06	1.24E-04	9.14E-05	9.14E-05	5.10E-05	1.30E-06	1.89E-05	1.43E-05	1.43E-05	7.85E-06	7.07E-07	1.02E-05	6.35E-06	6.35E-06	3.14E-06
1709	257429.99	4084707.72	8.71E-06	1.26E-04	9.29E-05	9.29E-05	5.18E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.97E-06	7.18E-07	1.04E-05	6.45E-06	6.45E-06	3.19E-06
1710	257467.8	4084690.25	8.86E-06	1.28E-04	9.45E-05	9.45E-05	5.27E-05	1.35E-06	1.95E-05	1.48E-05	1.48E-05	8.11E-06	7.31E-07	1.06E-05	6.56E-06	6.56E-06	3.25E-06
1711	257505.6	4084672.79	9.07E-06	1.31E-04	9.67E-05	9.67E-05	5.39E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.30E-06	7.47E-07	1.08E-05	6.71E-06	6.71E-06	3.32E-06
1712	257256.76	4084988.46	1.81E-05	2.61E-04	1.93E-04	1.93E-04	1.07E-04	2.74E-06	3.98E-05	3.01E-05	3.01E-05	1.65E-05	1.49E-06	2.15E-05	1.34E-05	1.34E-05	6.62E-06
1713	257258.41	4085033.02	2.18E-05	3.15E-04	2.33E-04	2.33E-04	1.30E-04	3.31E-06	4.81E-05	3.63E-05	3.63E-05	2.00E-05	1.80E-06	2.60E-05	1.62E-05	1.62E-05	8.00E-06
1714	257260.06	4085077.58	2.58E-05	3.72E-04	2.75E-04	2.75E-04	1.53E-04	3.91E-06	5.67E-05	4.29E-05	4.29E-05	2.36E-05	2.12E-06	3.07E-05	1.91E-05	1.91E-05	9.44E-06
1715	257261.71	4085122.15	3.01E-05	4.35E-04	3.21E-04	3.21E-04	1.79E-04	4.57E-06	6.63E-05	5.01E-05	5.01E-05	2.75E-05	2.48E-06	3.59E-05	2.23E-05	2.23E-05	1.10E-05
1716	257263.37	4085166.71	3.49E-05	5.05E-04	3.73E-04	3.73E-04	2.08E-04	5.30E-06	7.70E-05	5.82E-05	5.82E-05	3.20E-05	2.88E-06	4.17E-05	2.59E-05	2.59E-05	1.28E-05
1717	257163.58	4084949.42	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.90E-05	1.76E-06	2.56E-05	1.93E-05	1.93E-05	1.06E-05	9.57E-07	1.38E-05	8.60E-06	8.60E-06	4.26E-06
1718	257178.73	4084908.51	1.02E-05	1.48E-04	1.09E-04	1.09E-04	6.06E-05	1.55E-06	2.25E-05	1.70E-05	1.70E-05	9.33E-06	8.41E-07	1.22E-05	7.55E-06	7.55E-06	3.74E-06
1719	257193.88	4084867.6	9.03E-06	1.31E-04	9.62E-05	9.62E-05	5.37E-05	1.37E-06	1.99E-05	1.50E-05	1.50E-05	8.26E-06	7.44E-07	1.08E-05	6.69E-06	6.69E-06	3.31E-06
1720	257209.03	4084826.68	8.11E-06	1.17E-04	8.65E-05	8.65E-05	4.82E-05	1.23E-06	1.79E-05	1.35E-05	1.35E-05	7.42E-06	6.69E-07	9.67E-06	6.01E-06	6.01E-06	2.97E-06
1721	257224.18	4084785.77	7.36E-06	1.06E-04	7.85E-05	7.85E-05	4.37E-05	1.12E-06	1.62E-05	1.23E-05	1.23E-05	6.74E-06	6.07E-07	8.78E-06	5.45E-06	5.45E-06	2.70E-06
1722	257239.33	4084744.86	6.73E-06	9.73E-05	7.17E-05	7.17E-05	4.00E-05	1.02E-06	1.48E-05	1.12E-05	1.12E-05	6.15E-06	5.54E-07	8.02E-06	4.98E-06	4.98E-06	2.47E-06
1723	257254.48	4084703.95	6.15E-06	8.89E-05	6.55E-05	6.55E-05	3.65E-05	9.33E-07	1.35E-05	1.02E-05	1.02E-05	5.63E-06	5.07E-07	7.33E-06	4.55E-06	4.55E-06	2.25E-06
1724	257281.86	4084674.34	5.91E-06	8.55E-05	6.30E-05	6.30E-05	3.51E-05	8.97E-07	1.30E-05	9.84E-06	9.84E-06	5.41E-06	4.87E-07	7.05E-06	4.38E-06	4.38E-06	2.17E-06
1725	257321.47	4084656.04	5.99E-06	8.67E-05	6.39E-05	6.39E-05	3.56E-05	9.09E-07	1.32E-05	9.97E-06	9.97E-06	5.48E-06	4.94E-07	7.14E-06	4.44E-06	4.44E-06	2.20E-06
1726	257361.07	4084637.75	6.07E-06	8.78E-05	6.47E-05	6.47E-05	3.61E-05	9.21E-07	1.34E-05	1.01E-05	1.01E-05	5.56E-06	5.00E-07	7.24E-06	4.50E-06	4.50E-06	2.23E-06
1727	257400.68	4084619.45	6.15E-06	8.89E-05	6.55E-05	6.55E-05	3.65E-05	9.33E-07	1.35E-05	1.02E-05	1.02E-05	5.63E-06	5.07E-07	7.33E-06	4.55E-06	4.55E-06	2.25E-06
1728	257440.28	4084601.15	6.23E-06	9.01E-05	6.64E-05	6.64E-05	3.70E-05	9.45E-07	1.37E-05	1.04E-05	1.04E-05	5.70E-06	5.13E-07	7.43E-06	4.61E-06	4.61E-06	2.28E-06
1729	257479.89	4084582.85	6.34E-06	9.18E-05	6.76E-05	6.76E-05	3.77E-05	9.63E-07	1.40E-05	1.06E-05	1.06E-05	5.81E-06	5.23E-07	7.56E-06	4.70E-06	4.70E-06	2.33E-06
1730	257156.83	4084992.16	1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.00E-05	2.04E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.60E-05	9.97E-06	9.97E-06	4.94E-06
1731	257158.48	4085036.72	1.56E-05	2.26E-04	1.67E-04	1.67E-04	9.30E-05	2.37E-06	3.45E-05	2.60E-05	2.60E-05	1.43E-05	1.29E-06	1.87E-05	1.16E-05	1.16E-05	5.73E-06
1732	257160.13	4085081.29	1.77E-05	2.56E-04	1.89E-04	1.89E-04	1.05E-04	2.69E-06	3.90E-05	2.95E-05	2.95E-05	1.62E-05	1.46E-06	2.11E-05	1.31E-05	1.31E-05	6.49E-06
1733	257161.78	4085125.85	1.97E-05	2.85E-04	2.10E-04	2.10E-04	1.17E-04	2.99E-06	4.33E-05	3.27E-05	3.27E-05	1.80E-05	1.62E-06	2.35E-05	1.46E-05	1.46E-05	7.21E-06
1734	257162.61	4085148.13	2.07E-05	3.00E-04	2.21E-04	2.21E-04	1.23E-04	3.14E-06	4.57E-05	3.45E-05	3.45E-05	1.90E-05	1.71E-06	2.47E-05	1.53E-05	1.53E-05	7.60E-06
1735	257063.44	4084953.69	9.43E-06	1.36E-04	1.00E-04	1.00E-04	5.60E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.63E-06	7.77E-07	1.12E-05	6.98E-06	6.98E-06	3.46E-06
1736	257078.17	4084913.92	8.43E-06	1.22E-04	8.98E-05	8.98E-05	5.01E-05	1.28E-06	1.86E-05	1.40E-05	1.40E-05	7.71E-06	6.95E-07	1.00E-05	6.24E-06	6.24E-06	3.09E-06
1737	257092.9	4084874.14	7.56E-06	1.09E-04	8.05E-05	8.05E-05	4.49E-05	1.15E-06	1.66E-05	1.26E-05	1.26E-05	6.91E-06	6.23E-07	9.01E-06	5.59E-06	5.59E-06	2.77E-06
1738	257107.63	4084834.36	6.83E-06	9.88E-05	7.29E-05	7.29E-05	4.06E-05	1.04E-06	1.51E-05	1.14E-05	1.14E-05	6.25E-06	5.63E-07	8.15E-06	5.06E-06	5.06E-06	2.51E-06
1739	257122.36	4084794.59	6.25E-06	9.03E-05	6.66E-05	6.66E-05	3.71E-05	9.48E-07	1.38E-05	1.04E-05	1.04E-05	5.72E-06	5.15E-07	7.45E-06	4.63E-06	4.63E-06	2.29E-06
1740	257137.09	4084754.81	5.75E-06	8.32E-05	6.13E-05	6.13E-05	3.42E-05	8.73E-07	1.27E-05	9.57E-06	9.57E-06	5.26E-06	4.74E-07	6.85E-06	4.26E-06	4.26E-06	2.11E-06
1741	257151.82	4084715.03	5.33E-06	7.71E-05	5.68E-05	5.68E-05	3.17E-05	8.09E-07	1.17E-05	8.87E-06	8.87E-06	4.88E-06	4.39E-07	6.35E-06	3.95E-06	3.95E-06	1.95E-06
1742	257166.55	4084675.26	4.95E-06	7.16E-05	5.28E-05	5.28E-05	2.94E-05	7.51E-07	1.09E-05	8.24E-06	8.24E-06	4.53E-06	4.08E-07	5.90E-06	3.66E-06	3.66E-06	1.81E-06
1743	257181.27	4084635.48	4.59E-06	6.64E-05	4.89E-05	4.89E-05	2.73E-05	6.96E-07	1.01E-05	7.64E-06	7.64E-06	4.20E-06	3.78E-07	5.47E-06	3.40E-06	3.40E-06	1.68E-06
1744	257207.89	4084606.7	4.44E-06	6.42E-05	4.73E-05	4.73E-05	2.64E-05	6.73E-07	9.78E-06	7.38E-06	7.38E-06	4.06E-06	3.66E-07	5.29E-06	3.29E-06	3.29E-06	1.63E-06
1745	257246.4	4084588.91	4.48E-06	6.48E-05	4.78E-05	4.78E-05	2.66E-05	6.80E-07	9.87E-06	7.46E-06	7.46E-06	4.10E-06	3.69E-07	5.34E-06	3.32E-06	3.32E-06	1.64E-06
1746	257284.9	4084571.12	4.54E-06	6.56E-05	4.84E-05	4.84E-05	2.70E-05	6.89E-07	1.00E-05	7.55E-06	7.55E-06	4.15E-06	3.74E-07	5.41E-06	3.36E-06	3.36E-06	1.66E-06
1747	257323.41	4084553.33	4.60E-06	6.66E-05	4.91E-05	4.91E-05	2.74E-05	6.98E-07	1.01E-05	7.66E-06	7.66E-06	4.21E-06	3.79E-07	5.49E-06	3.41E-06	3.41E-06	1.69E-06
1748	257361.92	4084535.54	4.66E-06	6.74E-05	4.97E-05	4.97E-05	2.77E-05	7.07E-07	1.03E-05	7.76E-06	7.76E-06	4.26E-06	3.84E-07	5.56E-06	3.45E-06	3.45E-06	1.71E-06
1749	257400.42	4084517.75	4.71E-06	6.81E-05	5.02E-05	5.02E-05	2.80E-05	7.15E-07	1.04E-05	7.84E-06	7.84E-06	4.31E-06	3.88E-07	5.62E-06	3.49E-06	3.49E-06	1.73E-06
1750	257438.93	4084499.96	4.76E-06	6.89E-05	5.08E-05	5.08E-05	2.83E-05	7.23E-07	1.05E-05	7.93E-06	7.93E-06	4.36E-06	3.93E-07	5.68E-06	3.53E-06	3.53E-06	1.75E-06
1751	257477.43	4084482.18	4.83E-06	6.98E-05	5.15E-05	5.15E-05	2.87E-05	7.33E-07	1.06E-05	8.04E-06	8.04E-06	4.42E-06	3.98E-07	5.76E-06	3.58E-06	3.58E-06	1.77E-06
1752	257056.9	4084995.86	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.35E-05	1.62E-06	2.35E-05	1.78E-05	1.78E-05	9.78E-06	8.81E-07	1.27E-05	7.91E-06	7.91E-06	3.92E-06
1753	257057.72	4085018.15	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.79E-05	1.73E-06	2.52E-05	1.90E-05	1.90E-05	1.04E-05	9.41E-07	1.36E-05	8.46E-06	8.46E-06	4.19E-06
1754	257059.38	4085062.71	1.28E-05	1.85E-04	1.36E-04	1.36E-04	7.58E-05	1.94E-06	2.81E-05	2.12E-05	2.12E-05	1.17E-05	1.05E-06	1.52E-05	9.45E-06	9.45E-06	4.68E-06
1755	257061.03	4085107.27	1.39E-05	2.01E-04	1.48E-04	1.48E-04	8.26E-05	2.11E-06	3.06E-05	2.31E-05	2.31E-05	1.27E-05	1.15E-06	1.66E-05	1.03E-05	1.03E-05	5.10E-06
1756	257062.68	4085151.83	1.49E-05	2.16E-04	1.59E-04	1.59E-04	8.87E-05	2.27E-06	3.29E-05	2.49E-05	2.49E-05	1.37E-05	1.23E-06	1.78E-05	1.11E-05	1.11E-05	5.47E-06
1757	256963.72	4084956.83	7.91E-06	1.14E-04	8.43E-05	8.43E-05	4.70E-05	1.20E-06	1.74E-05	1.32E-05	1.32E-05	7.23E-06	6.52E-07	9.43E-06	5.85E-06	5.85E-06	2.90E-06
1758	256978.87	4084915.92	7.12E-06	1.03E-04	7.59E-05	7.59E-05	4.23E-05	1.08E-06	1.57E-05	1.18E-05	1.18E-05	6.51E-06	5.87E-07	8.49E-06	5.27E-06	5.27E-06	2.61E-06
1759	256994.02	4084875	6.42E-06	9.29E-05	6.85E-05	6.85E-05	3.82E-05	9.75E-07	1.42E-05	1.07E-05	1.07E-05	5.88E-06	5.29E-07	7.66E-06	4.76E-06	4.76E-06	2.35E-06
1760	257009.17	4084834.09	5.85E-06	8.46E-05	6.24E-05	6.24E-05	3.48E-05	8.88E-07	1.29E-05	9.74E-06	9.74E-06	5.35E-06	4.82E-07	6.97E-06	4.33E-06	4.33E-06	2.14E-06
1761	257024.32	4084793.18	5.36E-06	7.76E-05	5.72E-05	5.72E-05	3.19E-05	8.14E-07	1.18E-05	8.93E-06	8.93E-06	4.91E-06	4.42E-07	6.40E-06	3.97E-06	3.97E-06	1.97E-06
1762	257039.47	4084752.26	4.94E-06	7.14E-05	5.26E-05	5.26E-05	2.94E-05	7.49E-07	1.09E-05	8.22E-06	8.22E-06	4.52E-06	4.07E-07	5.89E-06	3.66E-06	3.66E-06	1.81E-06
1763	257054.62	4084711.35	4.57E-06	6.62E-05	4.88E-05	4.88E-05	2.72E-05	6.94E-07	1.01E-05	7.61E-06	7.61E-06	4.19E-06	3.77E-07	5.45E-06	3.39E-06	3.39E-06	1.68E-06
1764	257069.77	4084670.44	4.26E-06	6.16E-05	4.54E-05	4.54E-05	2.53E-05	6.47E-07	9.39E-06	7.09E-06	7.09E-06	3.90E-06	3.51E-07	5.08E-06	3.16E-06	3.16E-06	1.56E-06
1765	257084.92	4084629.52	3.99E-06	5.77E-05	4.25E-05	4.25E-05	2.37E-05	6.05E-07	8.79E-06	6.64E-06	6.64E-06	3.65E-06	3.29E-07	4.75E-06	2.95E-06	2.95E-06	1.46E-06
1766	257100.07	4084588.61	3.73E-06	5.39E-05	3.98E-05	3.98E-05	2.22E-05	5.66E-07	8.22E-06	6.21E-06	6.21E-06	3.41E-06	3.07E-07	4.45E-06	2.76E-06	2.76E-06	1.37E-06
1767	257135.02	4084538.55	3.50E-06	5.06E-05	3.73E-05	3.73E-05	2.08E-05	5.31E-07	7.71E-06	5.83E-06	5.83E-06	3.20E-06	2.88E-07	4.17E-06	2.59E-06	2.59E-06	1.28E-06
1768	257174.63	4084520.25	3.53E-06	5.11E-05	3.77E-05	3.77E-05	2.10E-05	5.36E-07	7.79E-06	5.88E-06	5.88E-06	3.23E-06	2.91E-07	4.21E-06	2.62E-06	2.62E-06	1.30E-06
1769	257214.24	4084501.95	3.59E-06	5.19E-05	3.82E-05	3.82E-05	2.13E-05	5.44E-07	7.90E-06	5.97E-06	5.97E-06	3.28E-06	2.96E-07	4.28E-06	2.66E-06	2.66E-06	1.31E-06
1770	257253.84	4084483.66	3.65E-06	5.27E-05	3.89E-05	3.89E-05	2.17E-05	5.53E-07	8.03E-06	6.07E-06	6.07E-06	3.34E-06	3.00E-07	4.35E-06	2.70E-06	2.70E-06	1.34E-06
1771	257293.45	4084465.36	3.70E-06	5.35E-05	3.95E-05	3.95E-05	2.20E-05	5.62E-07	8.15E-06	6.16E-06	6.16E-06	3.39E-06	3.05E-07	4.41E-06	2.74E-06	2.74E-06	1.36E-06
1772	257333.05	4084447.06	3.74E-06	5.41E-05	3.99E-05	3.99E-05	2.22E-05	5.68E-07	8.24E-06	6.23E-06	6.23E-06	3.42E-06	3.08E-07	4.46E-06	2.77E-06	2.77E-06	1.37E-06
1773	257372.66	4084428.77	3.76E-06	5.44E-05	4.01E-05	4.01E-05	2.24E-05	5.71E-07	8.29E-06	6.27E-06	6.27E-06	3.44E-06	3.10E-07	4.49E-06	2.79E-06	2.79E-06	1.38E-06
1774	257412.27	4084410.47	3.77E-06	5.46E-05	4.02E-05	4.02E-05	2.24E-05	5.73E-07	8.32E-06	6.28E-06	6.28E-06	3.45E-06	3.11E-07	4.50E-06	2.80E-06	2.80E-06	1.38E-06
1775	257451.87	4084392.17	3.78E-06	5.47E-05	4.03E-05	4.03E-05	2.25E-05	5.74E-07	8.34E-06	6.30E-06	6.30E-06	3.46E-06	3.12E-07	4.51E-06	2.80E-06	2.80E-06	1.39E-06
1776	257491.48	4084373.87	3.80E-06	5.49E-05	4.05E-05	4.05E-05	2.26E-05	5.77E-07	8.37E-06	6.32E-06	6.32E-06	3.48E-06	3.13E-07	4.53E-06	2.81E-06	2.81E-06	1.39E-06
1777	256956.97	4084999.57	8.85E-06	1.28E-04	9.43E-05	9.43E-05	5.26E-05	1.34E-06	1.95E-05	1.47E-05	1.47E-05	8.09E-06	7.29E-07	1.05E-05	6.55E-06	6.55E-06	3.24E-06
1778	256958.62	4085044.13	9.85E-06	1.42E-04	1.05E-04	1.05E-04	5.85E-05	1.49E-06	2.17E-05	1.64E-05	1.64E-05	9.01E-06	8.12E-07	1.17E-05	7.29E-06	7.29E-06	3.61E-06
1779	256960.27	4085088.69	1.07E-05	1.54E-04	1.14E-04	1.14E-04	6.34E-05	1.62E-06	2.35E-05	1.78E-05	1.78E-05	9.76E-06	8.80E-07	1.27E-05	7.90E-06	7.90E-06	3.91E-06
1780	256961.92	4085133.25	1.13E-05	1.64E-04	1.21E-04	1.21E-04	6.72E-05	1.72E-06	2.49E-05	1.88E-05	1.88E-05	1.04E-05	9.33E-07	1.35E-05	8.38E-06	8.38E-06	4.15E-06
1781	256963.57	4085177.82	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.08E-05	1.81E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.82E-07	1.42E-05	8.82E-06	8.82E-06	4.37E-06

1782	256863.94	4084960.11	6.81E-06	9.85E-05	7.26E-05	7.26E-05	4.05E-05	1.03E-06	1.50E-05	1.13E-05	1.13E-05	6.23E-06	5.61E-07	8.12E-06	5.04E-06	5.04E-06	2.50E-06
1783	256879.41	4084918.34	6.17E-06	8.92E-05	6.57E-05	6.57E-05	3.66E-05	9.36E-07	1.36E-05	1.03E-05	1.03E-05	5.64E-06	5.08E-07	7.35E-06	4.57E-06	4.57E-06	2.26E-06
1784	256894.88	4084876.57	5.60E-06	8.09E-05	5.97E-05	5.97E-05	3.33E-05	8.49E-07	1.23E-05	9.31E-06	9.31E-06	5.12E-06	4.61E-07	6.67E-06	4.14E-06	4.14E-06	2.05E-06
1785	256910.34	4084834.81	5.13E-06	7.42E-05	5.47E-05	5.47E-05	3.05E-05	7.78E-07	1.13E-05	8.54E-06	8.54E-06	4.69E-06	4.23E-07	6.11E-06	3.80E-06	3.80E-06	1.88E-06
1786	256925.81	4084793.04	4.74E-06	6.85E-05	5.05E-05	5.05E-05	2.81E-05	7.19E-07	1.04E-05	7.88E-06	7.88E-06	4.33E-06	3.90E-07	5.65E-06	3.51E-06	3.51E-06	1.74E-06
1787	256941.27	4084751.28	4.38E-06	6.33E-05	4.67E-05	4.67E-05	2.60E-05	6.64E-07	9.64E-06	7.29E-06	7.29E-06	4.01E-06	3.61E-07	5.22E-06	3.24E-06	3.24E-06	1.60E-06
1788	256956.74	4084709.51	4.05E-06	5.85E-05	4.31E-05	4.31E-05	2.41E-05	6.14E-07	8.92E-06	6.74E-06	6.74E-06	3.70E-06	3.34E-07	4.82E-06	3.00E-06	3.00E-06	1.48E-06
1789	256972.21	4084667.75	3.76E-06	5.43E-05	4.00E-05	4.00E-05	2.23E-05	5.70E-07	8.28E-06	6.25E-06	6.25E-06	3.44E-06	3.10E-07	4.48E-06	2.78E-06	2.78E-06	1.38E-06
1790	256987.67	4084625.98	3.51E-06	5.08E-05	3.75E-05	3.75E-05	2.09E-05	5.33E-07	7.74E-06	5.85E-06	5.85E-06	3.22E-06	2.90E-07	4.19E-06	2.60E-06	2.60E-06	1.29E-06
1791	257003.14	4084584.22	3.31E-06	4.78E-05	3.53E-05	3.53E-05	1.97E-05	5.02E-07	7.29E-06	5.50E-06	5.50E-06	3.03E-06	2.73E-07	3.94E-06	2.45E-06	2.45E-06	1.21E-06
1792	257018.6	4084542.45	3.12E-06	4.51E-05	3.32E-05	3.32E-05	1.85E-05	4.73E-07	6.87E-06	5.19E-06	5.19E-06	2.85E-06	2.57E-07	3.72E-06	2.31E-06	2.31E-06	1.14E-06
1793	257034.07	4084500.69	2.94E-06	4.26E-05	3.14E-05	3.14E-05	1.75E-05	4.47E-07	6.48E-06	4.90E-06	4.90E-06	2.69E-06	2.43E-07	3.51E-06	2.18E-06	2.18E-06	1.08E-06
1794	257062.02	4084470.46	2.87E-06	4.15E-05	3.06E-05	3.06E-05	1.71E-05	4.35E-07	6.32E-06	4.78E-06	4.78E-06	2.63E-06	2.36E-07	3.42E-06	2.12E-06	2.12E-06	1.05E-06
1795	257102.45	4084451.78	2.90E-06	4.19E-05	3.09E-05	3.09E-05	1.72E-05	4.40E-07	6.39E-06	4.83E-06	4.83E-06	2.65E-06	2.39E-07	3.46E-06	2.15E-06	2.15E-06	1.06E-06
1796	257142.88	4084433.11	2.95E-06	4.26E-05	3.14E-05	3.14E-05	1.75E-05	4.47E-07	6.49E-06	4.90E-06	4.90E-06	2.70E-06	2.43E-07	3.51E-06	2.18E-06	2.18E-06	1.08E-06
1797	257183.31	4084414.43	3.01E-06	4.35E-05	3.20E-05	3.20E-05	1.79E-05	4.56E-07	6.62E-06	5.00E-06	5.00E-06	2.75E-06	2.48E-07	3.58E-06	2.23E-06	2.23E-06	1.10E-06
1798	257223.74	4084395.75	3.06E-06	4.42E-05	3.26E-05	3.26E-05	1.82E-05	4.64E-07	6.74E-06	5.09E-06	5.09E-06	2.80E-06	2.52E-07	3.64E-06	2.26E-06	2.26E-06	1.12E-06
1799	257264.17	4084377.07	3.09E-06	4.47E-05	3.30E-05	3.30E-05	1.84E-05	4.69E-07	6.81E-06	5.15E-06	5.15E-06	2.83E-06	2.55E-07	3.69E-06	2.29E-06	2.29E-06	1.13E-06
1800	257304.61	4084358.39	3.10E-06	4.49E-05	3.31E-05	3.31E-05	1.85E-05	4.71E-07	6.84E-06	5.17E-06	5.17E-06	2.84E-06	2.56E-07	3.70E-06	2.30E-06	2.30E-06	1.14E-06
1801	257345.04	4084339.71	3.09E-06	4.48E-05	3.30E-05	3.30E-05	1.84E-05	4.70E-07	6.82E-06	5.15E-06	5.15E-06	2.83E-06	2.55E-07	3.69E-06	2.29E-06	2.29E-06	1.13E-06
1802	257385.47	4084321.04	3.07E-06	4.44E-05	3.27E-05	3.27E-05	1.83E-05	4.66E-07	6.77E-06	5.11E-06	5.11E-06	2.81E-06	2.53E-07	3.66E-06	2.27E-06	2.27E-06	1.13E-06
1803	257425.9	4084302.36	3.05E-06	4.41E-05	3.25E-05	3.25E-05	1.81E-05	4.63E-07	6.72E-06	5.08E-06	5.08E-06	2.79E-06	2.51E-07	3.64E-06	2.26E-06	2.26E-06	1.12E-06
1804	257466.33	4084283.68	3.04E-06	4.40E-05	3.24E-05	3.24E-05	1.81E-05	4.62E-07	6.70E-06	5.07E-06	5.07E-06	2.78E-06	2.51E-07	3.63E-06	2.25E-06	2.25E-06	1.12E-06
1805	256857.04	4085003.27	7.55E-06	1.09E-04	8.05E-05	8.05E-05	4.49E-05	1.15E-06	1.66E-05	1.26E-05	1.26E-05	6.91E-06	6.22E-07	9.00E-06	5.59E-06	5.59E-06	2.77E-06
1806	256858.69	4085047.83	8.29E-06	1.20E-04	8.83E-05	8.83E-05	4.93E-05	1.26E-06	1.83E-05	1.38E-05	1.38E-05	7.58E-06	6.83E-07	9.88E-06	6.14E-06	6.14E-06	3.04E-06
1807	256860.34	4085092.39	8.86E-06	1.28E-04	9.45E-05	9.45E-05	5.27E-05	1.34E-06	1.95E-05	1.47E-05	1.47E-05	8.11E-06	7.30E-07	1.06E-05	6.56E-06	6.56E-06	3.25E-06
1808	256861.99	4085136.96	9.28E-06	1.34E-04	9.90E-05	9.90E-05	5.52E-05	1.41E-06	2.05E-05	1.55E-05	1.55E-05	8.49E-06	7.65E-07	1.11E-05	6.87E-06	6.87E-06	3.40E-06
1809	256863.64	4085181.52	9.65E-06	1.40E-04	1.03E-04	1.03E-04	5.74E-05	1.47E-06	2.13E-05	1.61E-05	1.61E-05	8.83E-06	7.96E-07	1.15E-05	7.15E-06	7.15E-06	3.54E-06
1810	256664.04	4084967.61	5.37E-06	7.77E-05	5.73E-05	5.73E-05	3.19E-05	8.15E-07	1.18E-05	8.94E-06	8.94E-06	4.92E-06	4.43E-07	6.41E-06	3.98E-06	3.98E-06	1.97E-06
1811	256679.44	4084926.03	4.92E-06	7.12E-05	5.25E-05	5.25E-05	2.93E-05	7.47E-07	1.08E-05	8.20E-06	8.20E-06	4.51E-06	4.06E-07	5.87E-06	3.65E-06	3.65E-06	1.80E-06
1812	256694.83	4084884.46	4.51E-06	6.52E-05	4.81E-05	4.81E-05	2.68E-05	6.84E-07	9.94E-06	7.51E-06	7.51E-06	4.13E-06	3.72E-07	5.38E-06	3.34E-06	3.34E-06	1.65E-06
1813	256710.23	4084842.89	4.17E-06	6.03E-05	4.44E-05	4.44E-05	2.48E-05	6.33E-07	9.18E-06	6.94E-06	6.94E-06	3.81E-06	3.44E-07	4.97E-06	3.09E-06	3.09E-06	1.53E-06
1814	256725.62	4084801.32	3.89E-06	5.63E-05	4.15E-05	4.15E-05	2.31E-05	5.91E-07	8.58E-06	6.48E-06	6.48E-06	3.56E-06	3.21E-07	4.64E-06	2.88E-06	2.88E-06	1.43E-06
1815	256741.02	4084759.74	3.66E-06	5.30E-05	3.90E-05	3.90E-05	2.18E-05	5.56E-07	8.07E-06	6.09E-06	6.09E-06	3.35E-06	3.02E-07	4.37E-06	2.71E-06	2.71E-06	1.34E-06
1816	256756.41	4084718.17	3.44E-06	4.98E-05	3.67E-05	3.67E-05	2.04E-05	5.22E-07	7.58E-06	5.73E-06	5.73E-06	3.15E-06	2.84E-07	4.10E-06	2.55E-06	2.55E-06	1.26E-06
1817	256771.81	4084676.6	3.21E-06	4.65E-05	3.43E-05	3.43E-05	1.91E-05	4.88E-07	7.08E-06	5.35E-06	5.35E-06	2.94E-06	2.65E-07	3.83E-06	2.38E-06	2.38E-06	1.18E-06
1818	256787.2	4084635.02	2.99E-06	4.32E-05	3.18E-05	3.18E-05	1.77E-05	4.53E-07	6.58E-06	4.97E-06	4.97E-06	2.73E-06	2.46E-07	3.56E-06	2.21E-06	2.21E-06	1.09E-06
1819	256802.6	4084593.45	2.77E-06	4.01E-05	2.96E-05	2.96E-05	1.65E-05	4.21E-07	6.11E-06	4.62E-06	4.62E-06	2.54E-06	2.29E-07	3.31E-06	2.05E-06	2.05E-06	1.02E-06
1820	256817.99	4084551.88	2.60E-06	3.76E-05	2.77E-05	2.77E-05	1.55E-05	3.95E-07	5.73E-06	4.33E-06	4.33E-06	2.38E-06	2.14E-07	3.10E-06	1.93E-06	1.93E-06	9.53E-07
1821	256833.39	4084510.3	2.46E-06	3.56E-05	2.63E-05	2.63E-05	1.46E-05	3.74E-07	5.43E-06	4.10E-06	4.10E-06	2.25E-06	2.03E-07	2.94E-06	1.82E-06	1.82E-06	9.03E-07
1822	256848.78	4084468.73	2.35E-06	3.41E-05	2.51E-05	2.51E-05	1.40E-05	3.57E-07	5.19E-06	3.92E-06	3.92E-06	2.15E-06	1.94E-07	2.81E-06	1.74E-06	1.74E-06	8.63E-07
1823	256864.18	4084427.16	2.26E-06	3.27E-05	2.41E-05	2.41E-05	1.34E-05	3.43E-07	4.98E-06	3.76E-06	3.76E-06	2.07E-06	1.86E-07	2.69E-06	1.67E-06	1.67E-06	8.28E-07
1824	256879.57	4084385.58	2.17E-06	3.14E-05	2.32E-05	2.32E-05	1.29E-05	3.30E-07	4.79E-06	3.62E-06	3.62E-06	1.99E-06	1.79E-07	2.59E-06	1.61E-06	1.61E-06	7.97E-07
1825	256915.09	4084334.72	2.11E-06	3.05E-05	2.25E-05	2.25E-05	1.25E-05	3.20E-07	4.64E-06	3.51E-06	3.51E-06	1.93E-06	1.74E-07	2.51E-06	1.56E-06	1.56E-06	7.72E-07
1826	256955.33	4084316.12	2.13E-06	3.09E-05	2.27E-05	2.27E-05	1.27E-05	3.24E-07	4.70E-06	3.55E-06	3.55E-06	1.95E-06	1.76E-07	2.54E-06	1.58E-06	1.58E-06	7.82E-07
1827	256995.58	4084297.53	2.17E-06	3.14E-05	2.31E-05	2.31E-05	1.29E-05	3.29E-07	4.78E-06	3.61E-06	3.61E-06	1.98E-06	1.79E-07	2.58E-06	1.61E-06	1.61E-06	7.95E-07
1828	257035.82	4084278.94	2.21E-06	3.19E-05	2.35E-05	2.35E-05	1.31E-05	3.35E-07	4.87E-06	3.68E-06	3.68E-06	2.02E-06	1.82E-07	2.63E-06	1.64E-06	1.64E-06	8.10E-07
1829	257076.07	4084260.35	2.25E-06	3.25E-05	2.40E-05	2.40E-05	1.34E-05	3.41E-07	4.96E-06	3.75E-06	3.75E-06	2.06E-06	1.85E-07	2.68E-06	1.67E-06	1.67E-06	8.25E-07
1830	257116.31	4084241.75	2.28E-06	3.29E-05	2.43E-05	2.43E-05	1.35E-05	3.46E-07	5.02E-06	3.79E-06	3.79E-06	2.08E-06	1.88E-07	2.71E-06	1.69E-06	1.69E-06	8.35E-07
1831	257156.56	4084223.16	2.28E-06	3.30E-05	2.44E-05	2.44E-05	1.36E-05	3.47E-07	5.03E-06	3.80E-06	3.80E-06	2.09E-06	1.88E-07	2.72E-06	1.69E-06	1.69E-06	8.38E-07
1832	257196.8	4084204.57	2.27E-06	3.29E-05	2.42E-05	2.42E-05	1.35E-05	3.45E-07	5.01E-06	3.79E-06	3.79E-06	2.08E-06	1.87E-07	2.71E-06	1.68E-06	1.68E-06	8.34E-07
1833	257237.05	4084185.98	2.25E-06	3.25E-05	2.39E-05	2.39E-05	1.33E-05	3.41E-07	4.95E-06	3.74E-06	3.74E-06	2.06E-06	1.85E-07	2.68E-06	1.66E-06	1.66E-06	8.23E-07
1834	257277.29	4084167.38	2.21E-06	3.19E-05	2.35E-05	2.35E-05	1.31E-05	3.35E-07	4.87E-06	3.68E-06	3.68E-06	2.02E-06	1.82E-07	2.63E-06	1.64E-06	1.64E-06	8.10E-07
1835	257317.54	4084148.79	2.17E-06	3.14E-05	2.32E-05	2.32E-05	1.29E-05	3.30E-07	4.79E-06	3.62E-06	3.62E-06	1.99E-06	1.79E-07	2.59E-06	1.61E-06	1.61E-06	7.96E-07
1836	257357.78	4084130.2	2.15E-06	3.10E-05	2.29E-05	2.29E-05	1.28E-05	3.26E-07	4.73E-06	3.57E-06	3.57E-06	1.96E-06	1.77E-07	2.56E-06	1.59E-06	1.59E-06	7.86E-07
1837	257398.03	4084111.61	2.14E-06	3.09E-05	2.28E-05	2.28E-05	1.27E-05	3.24E-07	4.70E-06	3.55E-06	3.55E-06	1.95E-06	1.76E-07	2.55E-06	1.58E-06	1.58E-06	7.83E-07
1838	257438.27	4084093.01	2.14E-06	3.10E-05	2.28E-05	2.28E-05	1.27E-05	3.25E-07	4.72E-06	3.56E-06	3.56E-06	1.96E-06	1.77E-07	2.55E-06	1.59E-06	1.59E-06	7.85E-07
1839	257478.52	4084074.42	2.16E-06	3.13E-05	2.31E-05	2.31E-05	1.29E-05	3.28E-07	4.77E-06	3.60E-06	3.60E-06	1.98E-06	1.78E-07	2.58E-06	1.60E-06	1.60E-06	7.93E-07
1840	256657.17	4085010.67	5.84E-06	8.45E-05	6.23E-05	6.23E-05	3.47E-05	8.87E-07	1.29E-05	9.72E-06	9.72E-06	5.35E-06	4.82E-07	6.96E-06	4.33E-06	4.33E-06	2.14E-06
1841	256658.82	4085055.24	6.28E-06	9.09E-05	6.70E-05	6.70E-05	3.73E-05	9.53E-07	1.38E-05	1.05E-05	1.05E-05	5.75E-06	5.18E-07	7.49E-06	4.65E-06	4.65E-06	2.30E-06
1842	256660.47	4085099.8	6.59E-06	9.54E-05	7.03E-05	7.03E-05	3.92E-05	1.00E-06	1.45E-05	1.10E-05	1.10E-05	6.03E-06	5.44E-07	7.86E-06	4.88E-06	4.88E-06	2.42E-06
1843	256662.13	4085144.36	6.81E-06	9.84E-05	7.25E-05	7.25E-05	4.04E-05	1.03E-06	1.50E-05	1.13E-05	1.13E-05	6.23E-06	5.61E-07	8.11E-06	5.04E-06	5.04E-06	2.49E-06
1844	256662.95	4085166.64	6.89E-06	9.97E-05	7.35E-05	7.35E-05	4.10E-05	1.05E-06	1.52E-05	1.15E-05	1.15E-05	6.31E-06	5.68E-07	8.22E-06	5.10E-06	5.10E-06	2.53E-06
1845	256464.16	4084975.07	4.45E-06	6.44E-05	4.75E-05	4.75E-05	2.65E-05	6.76E-07	9.82E-06	7.41E-06	7.41E-06	4.08E-06	3.67E-07	5.31E-06	3.30E-06	3.30E-06	1.63E-06
1846	256479.51	4084933.62	4.13E-06	5.97E-05	4.40E-05	4.40E-05	2.45E-05	6.26E-07	9.09E-06	6.87E-06	6.87E-06	3.78E-06	3.40E-07	4.92E-06	3.06E-06	3.06E-06	1.51E-06
1847	256494.86	4084892.17	3.81E-06	5.51E-05	4.06E-05	4.06E-05	2.27E-05	5.78E-07	8.40E-06	6.34E-06	6.34E-06	3.49E-06	3.14E-07	4.54E-06	2.82E-06	2.82E-06	1.40E-06
1848	256510.21	4084850.72	3.53E-06	5.11E-05	3.77E-05	3.77E-05	2.10E-05	5.36E-07	7.78E-06	5.88E-06	5.88E-06	3.23E-06	2.91E-07	4.21E-06	2.62E-06	2.62E-06	1.29E-06
1849	256525.56	4084809.27	3.31E-06	4.79E-05	3.53E-05	3.53E-05	1.97E-05	5.02E-07	7.29E-06	5.51E-06	5.51E-06	3.03E-06	2.73E-07	3.95E-06	2.45E-06	2.45E-06	1.21E-06
1850	256540.91	4084767.82	3.13E-06	4.53E-05	3.34E-05	3.34E-05	1.86E-05	4.76E-07	6.90E-06	5.22E-06	5.22E-06	2.87E-06	2.58E-07	3.74E-06	2.32E-06	2.32E-06	1.15E-06
1851	256556.26	4084726.36	2.99E-06	4.32E-05	3.18E-05	3.18E-05	1.77E-05	4.53E-07	6.58E-06	4.97E-06	4.97E-06	2.73E-06	2.46E-07	3.56E-06	2.21E-06	2.21E-06	1.09E-06
1852	256571.61	4084684.91	2.85E-06	4.12E-05	3.03E-05	3.03E-05	1.69E-05	4.32E-07	6.27E-06	4.74E-06	4.74E-06	2.60E-06	2.35E-07	3.39E-06	2.11E-06	2.11E-06	1.04E-06
1853	256586.96	4084643.46	2.69E-06	3.90E-05	2.87E-05	2.87E-05	1.60E-05	4.09E-07	5.94E-06	4.49E-06	4.49E-06	2.47E-06	2.22E-07	3.21E-06	2.00E-06	2.00E-06	9.88E-07
1854	256602.31	4084602.01	2.53E-06	3.65E-05	2.69E-05	2.69E-05	1.50E-05	3.83E-07	5.57E-06	4.21E-06	4.21E-06	2.31E-06	2.08E-07	3.01E-06	1.87E-06	1.87E-06	9.26E-07
1855	256617.66	4084560.56	2.35E-06	3.40E-05	2.51E-05	2.51E-05	1.40E-05	3.57E-07	5.18E-06	3.91E-06	3.91E-06	2.15E-06	1.94E-07	2.80E-06	1.74E-06	1.74E-06	8.62E-07
1856	256633.01	4084519.11	2.18E-06	3.16E-05	2.33E-05	2.33E-05	1.30E-05	3.31E-07	4.81E-06	3.63E-06	3.63E-06	2.00E-06	1.80E-07	2.60E-06	1.62E-06	1.62E-06	8.00E-07
1857	256648.36	4084477.66	2.04E-06	2.95E-05	2.17E-05	2.17E-05	1.21E-05	3.09E-07	4.49E-06	3.39E-06	3.39E-06	1.87E-06	1.68E-07	2.43E-06	1.51E-06	1.51E-06	7.47E-07
1858	256663.71	4084436.2	1.93E-06	2.79E-05	2.06E-05	2.06E-05	1.15E-05	2.93E-07	4.26E-06	3.22E-06	3.22E-06	1.77E-06	1.59E-07	2.30E-06	1.43E-06	1.43E-06	7.08E-07
1859	256679.06	4084394.75	1.86E-06	2.69E-05	1.98E-05	1.98E-05	1.10E-05	2.82E-07	4.09E-06	3.09E-06	3.09E-06	1.70E-06	1.53E-07	2.21E-06	1.37E-06	1.37E-06	6.81E-07
1860	256694.41	4084353.3	1.80E-06	2.61E-05	1.92E-05	1.92E-05	1.07E-05	2.74E-07	3.97E-06	3.00E-06	3.00E-06	1.65E-06	1.49E-07	2.15E-06	1.34E-06	1.34E-06	6.61E-07
1861	256709.76	4084311.85	1.76E-06	2.55E-05	1.88E-05	1.88E-05	1.05E-05	2.67E-07	3.88E-06	2.93E-06	2.93E-06	1.61E-06	1.45E-07	2.10E-06	1.31E-06	1.31E-06	6.46E-07
1862	256725.11	4084270.4	1.73E-06	2.50E-05	1.84E-05	1.84E-05	1.03E-05	2.62E-07	3.80E-06	2.87E-06	2.87E-06	1.58E-06	1.42E-07	2.06E-06	1.28E-06	1.28E-06	6.32E-07
1863	256740.46	4084228.95	1.69E-06	2.44E-05	1.80E-05	1.80E-05	1.00E-05	2.56E-07	3.72E-06	2.81E-06	2.81E-06	1.55E-06	1.39E-07	2.01E-06	1.25E-06	1.25E-06	6.19E-07
1864	256768.19	4084198.95	1.68E-06	2.43E-05	1.79E-05	1.79E-05	1.00E-05	2.55E-07	3.71E-06	2.80E-06	2.80E-06	1.54E-06	1.39E-07	2.01E-06	1.25E-06	1.25E-06	6.17E-07
1865	256808.32	4084180.41	1.70E-06	2.46E-05	1.81E-05	1.81E-05	1.01E-05	2.58E-07	3.75E-06	2.83E-06	2.83E-06	1.56E-06	1.40E-07	2.03E-06	1.26E-06	1.26E-06	6.23E-07
1866	256848.45	4084161.88	1.72E-06	2.49E-05	1.84E-05	1.84E-05	1.02E-05	2.62E-07	3.80E-06	2.87E-06	2.87E-06	1.58E-06	1.42E-07	2.05E-06	1.28E-06	1.28E-06	6.32E-07
1867	256888.58	4084143.34	1.75E-06	2.53E-05	1.86E-05	1.86E-05	1.04E-05	2.65E-07	3.85E-06	2.91E-06	2.91E-06	1.60E-06	1.44E-07	2.08E-06	1.29E-06	1.29E-06	6.40E-07
1868	256928.7	4084124.8	1.77E-06	2.56E-05	1.89E-05	1.89E-05	1.05E-05	2.69E-07	3.90E-06	2.95E-06	2.95E-06	1.62E-06	1.46E-07	2.11E-06	1.31E-06	1.31E-06	6.49E-07
1869	256968.83	4084106.26	1.79E-06	2.58E-05	1.90E-05	1.90E-05	1.06E-05	2.71E-07	3.94E-06	2.97E-06	2.97E-06	1.64E-06	1.47E-07	2.13E-06	1.32E-06	1.32E-06	6.55E-07
1870	257008.96	4084087.72	1.79E-06	2.59E-05	1.91E-05	1.91E-05	1.07E-05	2.72E-07	3.95E-06	2.98E-06	2.98E-06	1.64E-06	1.48E-07	2.14E-06	1.33E-06	1.33E-06	6.57E-07
1871	257049.08	4084069.19	1.79E-06	2.58E-05	1.90E-05	1.90E-05	1.06E-05	2.71E-07	3.94E-06	2.97E-06	2.97E-06	1.64E-06	1.47E-07	2.13E-06	1.32E-06	1.32E-06	6.55E-07
1872	257089.21	4084050.65	1.77E-06	2.56E-05	1.89E-05	1.89E-05	1.05E-05	2.69E-07	3.90E-06	2.95E-06	2.95E-06	1.62E-06	1.46E-07	2.11E-06	1.31E-06	1.31E-06	6.49E-07
1873	257129.34	4084032.11	1.75E-06	2.53E-05	1.86E-05	1.86E-05	1.04E-05	2.65E-07	3.85E-06	2.91E-06	2.91E-06	1.60E-06	1.44E-07	2.08E-06	1.29E-06	1.29E-06	6.40E-07
1874	257169.47	4084013.57	1.72E-06	2.49E-05	1.83E-05	1.83E-05	1.02E-05	2.61E-07	3.79E-06	2.86E-06	2.86E-06	1.57E-06	1.42E-07	2.05E-06	1.27E-06	1.27E-06	6.30E-07
1875	257209.59	4083995.03	1.69E-06	2.45E-05	1.80E-05	1.80E-05	1.01E-05	2.57E-07	3.73E-06	2.82E-06	2.82E-06	1.55E-06	1.40E-07	2.02E-06	1.25E-06	1.25E-06	6.20E-07
1876	257249.72	4083976.5	1.67E-06	2.42E-05	1.78E-05	1.78E-05	9.93E-06	2.53E-07	3.68E-06	2.78E-06	2.78E-06	1.53E-06	1.38E-07	1.99E-06	1.24E-06	1.24E-06	6.12E-07
1877	257289.85	4083957.96	1.66E-06	2.39E-05	1.77E-05	1.77E-05	9.84E-06	2.51E-07	3.65E-06	2.76E-06	2.76E-06	1.52E-06	1.36E-07	1.97E-06	1.23E-06	1.23E-06	6.07E-07
1878	257329.97	4083939.42	1.65E-06	2.38E-05	1.76E-05	1.76E-05	9.79E-06	2.50E-07	3.63E-06	2.74E-06	2.74E-06	1.51E-06	1.36E-07	1.96E-06	1.22E-06	1.22E-06	6.04E-07
1879	257370.1	4083920.88	1.65E-06	2.38E-05	1.76E-05	1.76E-05	9.79E-06	2.50E-07	3.63E-06	2.74E-06	2.74E-06	1.51E-06	1.36E-07	1.96E-06	1.22E-06	1.22E-06	6.04E-07
1880	257410.23	4083902.34	1.65E-06	2.39E-05	1.76E-05	1.76E-05	9.82E-06	2.51E-07	3.64E-06	2.75E-06	2.75E-06	1.51E-06	1.36E-07	1.97E-06	1.22E-06	1.22E-06	6.05E-07
1881	257450.36	4083883.81	1.66E-06	2.40E-05	1.77E-05	1.77E-05	9.86E-06	2.52E-07	3.66E-06	2.76E-06	2.76E-06	1.52E-06	1.37E-07	1.98E-06	1.23E-06	1.23E-06	6.08E-07
1882	256457.31	4085018.08	4.77E-06	6.91E-05	5.09E-05	5.09E-05	2.84E-05	7.25E-07	1.05E-05	7.95E-06	7.95E-06	4.37E-06	3.94E-07	5.69E-06	3.54E-06	3.54E-06	1.75E-06
1883	256458.96	4085062.64	5.06E-06	7.32E-05	5.39E-05	5.39E-05	3.01E-05	7.68E-07	1.11E-05	8.42E-06	8.42E-06	4.63E-06	4.17E-07	6.03E-06	3.75E-06	3.75E-06	1.85E-06
1884	256460.61	4085107.2	5.25E-06	7.59E-05	5.59E-05	5.59E-05	3.12E-05	7.96E-07	1.16E-05	8.73E-06	8.73E-06	4.80E-06	4.32E-07	6.25E-06	3.88E-06	3.88E-06	1.92E-06
1885	256462.26	4085151.77	5.36E-06	7.76E-05	5.72E-05	5.72E-05	3.19E-05	8.14E-07	1.18E-05	8.93E-06	8.93E-06	4.91E-06	4.42E-07	6.39E-06	3.97E-06	3.97E-06	1.97E-06
1886	256463.91	4085196.33	5.46E-06	7.90E-05	5.82E-05	5.82E-05	3.24E-05	8.28E-07	1.20E-05	9.09E-06	9.09E-06	5.00E-06	4.50E-07	6.51E-06	4.04E-06	4.04E-06	2.00E-06

1887	256264.28	4084982.52	3.81E-06	5.51E-05	4.06E-05	4.06E-05	2.27E-05	5.78E-07	8.40E-06	6.34E-06	6.34E-06	3.49E-06	3.14E-07	4.54E-06	2.82E-06	2.82E-06	1.40E-06
1888	256279.6	4084941.15	3.57E-06	5.16E-05	3.80E-05	3.80E-05	2.12E-05	5.41E-07	7.86E-06	5.94E-06	5.94E-06	3.26E-06	2.94E-07	4.25E-06	2.64E-06	2.64E-06	1.31E-06
1889	256294.92	4084899.78	3.32E-06	4.80E-05	3.54E-05	3.54E-05	1.97E-05	5.04E-07	7.31E-06	5.53E-06	5.53E-06	3.04E-06	2.74E-07	3.96E-06	2.46E-06	2.46E-06	1.22E-06
1890	256310.24	4084858.42	3.09E-06	4.47E-05	3.30E-05	3.30E-05	1.84E-05	4.69E-07	6.81E-06	5.15E-06	5.15E-06	2.83E-06	2.55E-07	3.69E-06	2.29E-06	2.29E-06	1.13E-06
1891	256325.56	4084817.05	2.90E-06	4.19E-05	3.09E-05	3.09E-05	1.72E-05	4.40E-07	6.39E-06	4.83E-06	4.83E-06	2.65E-06	2.39E-07	3.46E-06	2.15E-06	2.15E-06	1.06E-06
1892	256340.87	4084775.68	2.75E-06	3.97E-05	2.93E-05	2.93E-05	1.63E-05	4.17E-07	6.05E-06	4.57E-06	4.57E-06	2.51E-06	2.26E-07	3.27E-06	2.03E-06	2.03E-06	1.01E-06
1893	256356.19	4084734.31	2.62E-06	3.80E-05	2.80E-05	2.80E-05	1.56E-05	3.98E-07	5.78E-06	4.37E-06	4.37E-06	2.40E-06	2.16E-07	3.13E-06	1.94E-06	1.94E-06	9.62E-07
1894	256371.51	4084692.95	2.52E-06	3.65E-05	2.69E-05	2.69E-05	1.50E-05	3.83E-07	5.56E-06	4.20E-06	4.20E-06	2.31E-06	2.08E-07	3.01E-06	1.87E-06	1.87E-06	9.25E-07
1895	256386.83	4084651.58	2.43E-06	3.51E-05	2.59E-05	2.59E-05	1.44E-05	3.69E-07	5.35E-06	4.05E-06	4.05E-06	2.22E-06	2.00E-07	2.90E-06	1.80E-06	1.80E-06	8.91E-07
1896	256402.15	4084610.21	2.33E-06	3.37E-05	2.48E-05	2.48E-05	1.38E-05	3.53E-07	5.13E-06	3.87E-06	3.87E-06	2.13E-06	1.92E-07	2.78E-06	1.72E-06	1.72E-06	8.53E-07
1897	256417.47	4084568.84	2.21E-06	3.20E-05	2.36E-05	2.36E-05	1.31E-05	3.36E-07	4.87E-06	3.68E-06	3.68E-06	2.02E-06	1.82E-07	2.64E-06	1.64E-06	1.64E-06	8.10E-07
1898	256432.79	4084527.48	2.08E-06	3.00E-05	2.21E-05	2.21E-05	1.23E-05	3.15E-07	4.57E-06	3.46E-06	3.46E-06	1.90E-06	1.71E-07	2.47E-06	1.54E-06	1.54E-06	7.61E-07
1899	256448.11	4084486.11	1.93E-06	2.79E-05	2.06E-05	2.06E-05	1.15E-05	2.93E-07	4.25E-06	3.21E-06	3.21E-06	1.76E-06	1.59E-07	2.30E-06	1.43E-06	1.43E-06	7.07E-07
1900	256463.43	4084444.74	1.79E-06	2.59E-05	1.91E-05	1.91E-05	1.06E-05	2.71E-07	3.94E-06	2.98E-06	2.98E-06	1.64E-06	1.47E-07	2.13E-06	1.32E-06	1.32E-06	6.56E-07
1901	256478.74	4084403.37	1.67E-06	2.42E-05	1.78E-05	1.78E-05	9.93E-06	2.53E-07	3.68E-06	2.78E-06	2.78E-06	1.53E-06	1.38E-07	1.99E-06	1.24E-06	1.24E-06	6.12E-07
1902	256494.06	4084362	1.58E-06	2.28E-05	1.68E-05	1.68E-05	9.38E-06	2.39E-07	3.48E-06	2.63E-06	2.63E-06	1.44E-06	1.30E-07	1.88E-06	1.17E-06	1.17E-06	5.78E-07
1903	256509.38	4084320.64	1.52E-06	2.19E-05	1.62E-05	1.62E-05	9.01E-06	2.30E-07	3.34E-06	2.52E-06	2.52E-06	1.39E-06	1.25E-07	1.81E-06	1.12E-06	1.12E-06	5.56E-07
1904	256524.7	4084279.27	1.48E-06	2.14E-05	1.58E-05	1.58E-05	8.79E-06	2.25E-07	3.26E-06	2.46E-06	2.46E-06	1.35E-06	1.22E-07	1.76E-06	1.10E-06	1.10E-06	5.42E-07
1905	256540.02	4084237.9	1.46E-06	2.11E-05	1.56E-05	1.56E-05	8.67E-06	2.21E-07	3.21E-06	2.43E-06	2.43E-06	1.34E-06	1.20E-07	1.74E-06	1.08E-06	1.08E-06	5.35E-07
1906	256555.34	4084196.53	1.45E-06	2.09E-05	1.54E-05	1.54E-05	8.60E-06	2.20E-07	3.19E-06	2.41E-06	2.41E-06	1.32E-06	1.19E-07	1.72E-06	1.07E-06	1.07E-06	5.30E-07
1907	256570.66	4084155.17	1.44E-06	2.08E-05	1.53E-05	1.53E-05	8.54E-06	2.18E-07	3.17E-06	2.39E-06	2.39E-06	1.31E-06	1.18E-07	1.71E-06	1.06E-06	1.06E-06	5.27E-07
1908	256585.98	4084113.8	1.43E-06	2.06E-05	1.52E-05	1.52E-05	8.48E-06	2.16E-07	3.14E-06	2.37E-06	2.37E-06	1.31E-06	1.18E-07	1.70E-06	1.06E-06	1.06E-06	5.23E-07
1909	256621.32	4084063.18	1.42E-06	2.05E-05	1.51E-05	1.51E-05	8.42E-06	2.15E-07	3.12E-06	2.36E-06	2.36E-06	1.30E-06	1.17E-07	1.69E-06	1.05E-06	1.05E-06	5.19E-07
1910	256661.36	4084044.68	1.43E-06	2.07E-05	1.52E-05	1.52E-05	8.49E-06	2.17E-07	3.15E-06	2.38E-06	2.38E-06	1.31E-06	1.18E-07	1.70E-06	1.06E-06	1.06E-06	5.24E-07
1911	256701.41	4084026.18	1.44E-06	2.08E-05	1.53E-05	1.53E-05	8.54E-06	2.18E-07	3.17E-06	2.39E-06	2.39E-06	1.31E-06	1.18E-07	1.71E-06	1.06E-06	1.06E-06	5.27E-07
1912	256741.46	4084007.68	1.44E-06	2.09E-05	1.54E-05	1.54E-05	8.59E-06	2.19E-07	3.18E-06	2.40E-06	2.40E-06	1.32E-06	1.19E-07	1.72E-06	1.07E-06	1.07E-06	5.30E-07
1913	256781.5	4083989.18	1.45E-06	2.10E-05	1.55E-05	1.55E-05	8.63E-06	2.20E-07	3.20E-06	2.42E-06	2.42E-06	1.33E-06	1.20E-07	1.73E-06	1.08E-06	1.08E-06	5.33E-07
1914	256821.55	4083970.68	1.46E-06	2.11E-05	1.56E-05	1.56E-05	8.67E-06	2.21E-07	3.21E-06	2.43E-06	2.43E-06	1.34E-06	1.20E-07	1.74E-06	1.08E-06	1.08E-06	5.35E-07
1915	256861.59	4083952.18	1.46E-06	2.11E-05	1.56E-05	1.56E-05	8.68E-06	2.22E-07	3.22E-06	2.43E-06	2.43E-06	1.34E-06	1.20E-07	1.74E-06	1.08E-06	1.08E-06	5.36E-07
1916	256901.64	4083933.68	1.46E-06	2.11E-05	1.56E-05	1.56E-05	8.67E-06	2.21E-07	3.21E-06	2.43E-06	2.43E-06	1.34E-06	1.20E-07	1.74E-06	1.08E-06	1.08E-06	5.35E-07
1917	256941.69	4083915.18	1.45E-06	2.10E-05	1.55E-05	1.55E-05	8.62E-06	2.20E-07	3.20E-06	2.41E-06	2.41E-06	1.33E-06	1.20E-07	1.73E-06	1.07E-06	1.07E-06	5.32E-07
1918	256981.73	4083896.67	1.44E-06	2.08E-05	1.53E-05	1.53E-05	8.55E-06	2.18E-07	3.17E-06	2.39E-06	2.39E-06	1.32E-06	1.19E-07	1.71E-06	1.07E-06	1.07E-06	5.27E-07
1919	257021.78	4083878.17	1.42E-06	2.06E-05	1.52E-05	1.52E-05	8.46E-06	2.16E-07	3.14E-06	2.37E-06	2.37E-06	1.30E-06	1.17E-07	1.70E-06	1.05E-06	1.05E-06	5.22E-07
1920	257061.82	4083859.67	1.41E-06	2.04E-05	1.50E-05	1.50E-05	8.38E-06	2.14E-07	3.11E-06	2.35E-06	2.35E-06	1.29E-06	1.16E-07	1.68E-06	1.04E-06	1.04E-06	5.17E-07
1921	257101.87	4083841.17	1.40E-06	2.02E-05	1.49E-05	1.49E-05	8.31E-06	2.12E-07	3.08E-06	2.33E-06	2.33E-06	1.28E-06	1.15E-07	1.67E-06	1.03E-06	1.03E-06	5.12E-07
1922	257141.92	4083822.67	1.39E-06	2.00E-05	1.48E-05	1.48E-05	8.23E-06	2.10E-07	3.05E-06	2.31E-06	2.31E-06	1.27E-06	1.14E-07	1.65E-06	1.03E-06	1.03E-06	5.08E-07
1923	257181.96	4083804.17	1.37E-06	1.99E-05	1.46E-05	1.46E-05	8.16E-06	2.08E-07	3.03E-06	2.29E-06	2.29E-06	1.26E-06	1.13E-07	1.64E-06	1.02E-06	1.02E-06	5.03E-07
1924	257222.01	4083785.67	1.36E-06	1.97E-05	1.45E-05	1.45E-05	8.09E-06	2.06E-07	3.00E-06	2.26E-06	2.26E-06	1.25E-06	1.12E-07	1.62E-06	1.01E-06	1.01E-06	4.99E-07
1925	257262.05	4083767.17	1.35E-06	1.95E-05	1.44E-05	1.44E-05	8.03E-06	2.05E-07	2.98E-06	2.25E-06	2.25E-06	1.24E-06	1.11E-07	1.61E-06	1.00E-06	1.00E-06	4.95E-07
1926	257302.1	4083748.67	1.34E-06	1.94E-05	1.43E-05	1.43E-05	7.96E-06	2.03E-07	2.95E-06	2.23E-06	2.23E-06	1.23E-06	1.10E-07	1.60E-06	9.92E-07	9.92E-07	4.91E-07
1927	257342.15	4083730.17	1.33E-06	1.92E-05	1.42E-05	1.42E-05	7.90E-06	2.02E-07	2.93E-06	2.21E-06	2.21E-06	1.22E-06	1.10E-07	1.59E-06	9.85E-07	9.85E-07	4.87E-07
1928	257382.19	4083711.67	1.32E-06	1.91E-05	1.41E-05	1.41E-05	7.85E-06	2.01E-07	2.91E-06	2.20E-06	2.20E-06	1.21E-06	1.09E-07	1.58E-06	9.79E-07	9.79E-07	4.84E-07
1929	257422.24	4083693.17	1.32E-06	1.90E-05	1.40E-05	1.40E-05	7.82E-06	2.00E-07	2.90E-06	2.19E-06	2.19E-06	1.20E-06	1.08E-07	1.57E-06	9.74E-07	9.74E-07	4.82E-07
1930	257462.28	4083674.67	1.31E-06	1.90E-05	1.40E-05	1.40E-05	7.79E-06	1.99E-07	2.89E-06	2.18E-06	2.18E-06	1.20E-06	1.08E-07	1.56E-06	9.71E-07	9.71E-07	4.81E-07
1931	256257.45	4085025.49	4.04E-06	5.84E-05	4.31E-05	4.31E-05	2.40E-05	6.13E-07	8.90E-06	6.73E-06	6.73E-06	3.70E-06	3.33E-07	4.82E-06	2.99E-06	2.99E-06	1.48E-06
1932	256259.1	4085070.05	4.24E-06	6.13E-05	4.52E-05	4.52E-05	2.52E-05	6.43E-07	9.33E-06	7.05E-06	7.05E-06	3.88E-06	3.49E-07	5.05E-06	3.14E-06	3.14E-06	1.55E-06
1933	256260.75	4085114.61	4.35E-06	6.30E-05	4.64E-05	4.64E-05	2.59E-05	6.61E-07	9.59E-06	7.25E-06	7.25E-06	3.98E-06	3.59E-07	5.19E-06	3.22E-06	3.22E-06	1.60E-06
1934	256261.57	4085136.89	4.39E-06	6.35E-05	4.68E-05	4.68E-05	2.61E-05	6.67E-07	9.68E-06	7.31E-06	7.31E-06	4.02E-06	3.62E-07	5.24E-06	3.25E-06	3.25E-06	1.61E-06
1935	256263.23	4085181.45	4.45E-06	6.44E-05	4.74E-05	4.74E-05	2.65E-05	6.75E-07	9.81E-06	7.41E-06	7.41E-06	4.07E-06	3.67E-07	5.31E-06	3.30E-06	3.30E-06	1.63E-06
1936	256064.41	4084989.96	3.34E-06	4.82E-05	3.56E-05	3.56E-05	1.98E-05	5.06E-07	7.35E-06	5.55E-06	5.55E-06	3.05E-06	2.75E-07	3.98E-06	2.47E-06	2.47E-06	1.22E-06
1937	256079.7	4084948.65	3.16E-06	4.56E-05	3.36E-05	3.36E-05	1.88E-05	4.79E-07	6.95E-06	5.25E-06	5.25E-06	2.89E-06	2.60E-07	3.76E-06	2.34E-06	2.34E-06	1.16E-06
1938	256095	4084907.34	2.96E-06	4.28E-05	3.15E-05	3.15E-05	1.76E-05	4.49E-07	6.52E-06	4.93E-06	4.93E-06	2.71E-06	2.44E-07	3.53E-06	2.19E-06	2.19E-06	1.08E-06
1939	256110.3	4084866.04	2.77E-06	4.01E-05	2.95E-05	2.95E-05	1.65E-05	4.20E-07	6.10E-06	4.61E-06	4.61E-06	2.54E-06	2.28E-07	3.30E-06	2.05E-06	2.05E-06	1.02E-06
1940	256125.59	4084824.73	2.60E-06	3.76E-05	2.77E-05	2.77E-05	1.55E-05	3.95E-07	5.73E-06	4.33E-06	4.33E-06	2.38E-06	2.15E-07	3.10E-06	1.93E-06	1.93E-06	9.54E-07
1941	256140.89	4084783.42	2.46E-06	3.56E-05	2.63E-05	2.63E-05	1.46E-05	3.74E-07	5.43E-06	4.10E-06	4.10E-06	2.25E-06	2.03E-07	2.94E-06	1.82E-06	1.82E-06	9.03E-07
1942	256156.18	4084742.12	2.35E-06	3.40E-05	2.51E-05	2.51E-05	1.40E-05	3.57E-07	5.18E-06	3.92E-06	3.92E-06	2.15E-06	1.94E-07	2.80E-06	1.74E-06	1.74E-06	8.62E-07
1943	256171.48	4084700.81	2.26E-06	3.27E-05	2.41E-05	2.41E-05	1.35E-05	3.44E-07	4.99E-06	3.77E-06	3.77E-06	2.07E-06	1.87E-07	2.70E-06	1.68E-06	1.68E-06	8.30E-07
1944	256186.78	4084659.5	2.19E-06	3.17E-05	2.34E-05	2.34E-05	1.30E-05	3.32E-07	4.83E-06	3.65E-06	3.65E-06	2.00E-06	1.81E-07	2.61E-06	1.62E-06	1.62E-06	8.03E-07
1945	256202.07	4084618.2	2.12E-06	3.07E-05	2.26E-05	2.26E-05	1.26E-05	3.22E-07	4.68E-06	3.53E-06	3.53E-06	1.94E-06	1.75E-07	2.53E-06	1.57E-06	1.57E-06	7.78E-07
1946	256217.37	4084576.89	2.05E-06	2.97E-05	2.19E-05	2.19E-05	1.22E-05	3.11E-07	4.52E-06	3.41E-06	3.41E-06	1.88E-06	1.69E-07	2.45E-06	1.52E-06	1.52E-06	7.52E-07
1947	256232.66	4084535.58	1.97E-06	2.85E-05	2.10E-05	2.10E-05	1.17E-05	2.99E-07	4.34E-06	3.28E-06	3.28E-06	1.80E-06	1.62E-07	2.35E-06	1.46E-06	1.46E-06	7.22E-07
1948	256247.96	4084494.28	1.87E-06	2.70E-05	1.99E-05	1.99E-05	1.11E-05	2.84E-07	4.12E-06	3.11E-06	3.11E-06	1.71E-06	1.54E-07	2.23E-06	1.38E-06	1.38E-06	6.85E-07
1949	256263.26	4084452.97	1.75E-06	2.53E-05	1.87E-05	1.87E-05	1.04E-05	2.66E-07	3.86E-06	2.91E-06	2.91E-06	1.60E-06	1.44E-07	2.09E-06	1.30E-06	1.30E-06	6.41E-07
1950	256278.55	4084411.66	1.63E-06	2.36E-05	1.74E-05	1.74E-05	9.69E-06	2.48E-07	3.59E-06	2.71E-06	2.71E-06	1.49E-06	1.34E-07	1.94E-06	1.21E-06	1.21E-06	5.98E-07
1951	256293.85	4084370.36	1.51E-06	2.19E-05	1.61E-05	1.61E-05	8.99E-06	2.30E-07	3.33E-06	2.52E-06	2.52E-06	1.38E-06	1.25E-07	1.80E-06	1.12E-06	1.12E-06	5.54E-07
1952	256309.15	4084329.05	1.41E-06	2.04E-05	1.50E-05	1.50E-05	8.38E-06	2.14E-07	3.11E-06	2.35E-06	2.35E-06	1.29E-06	1.16E-07	1.68E-06	1.04E-06	1.04E-06	5.17E-07
1953	256324.44	4084287.74	1.33E-06	1.92E-05	1.42E-05	1.42E-05	7.90E-06	2.02E-07	2.93E-06	2.21E-06	2.21E-06	1.22E-06	1.10E-07	1.59E-06	9.85E-07	9.85E-07	4.87E-07
1954	256339.74	4084246.44	1.27E-06	1.84E-05	1.36E-05	1.36E-05	7.58E-06	1.93E-07	2.81E-06	2.12E-06	2.12E-06	1.17E-06	1.05E-07	1.52E-06	9.44E-07	9.44E-07	4.67E-07
1955	256355.03	4084205.13	1.24E-06	1.80E-05	1.32E-05	1.32E-05	7.38E-06	1.88E-07	2.74E-06	2.07E-06	2.07E-06	1.14E-06	1.02E-07	1.48E-06	9.20E-07	9.20E-07	4.55E-07
1956	256370.33	4084163.83	1.23E-06	1.78E-05	1.31E-05	1.31E-05	7.31E-06	1.87E-07	2.71E-06	2.05E-06	2.05E-06	1.13E-06	1.01E-07	1.47E-06	9.10E-07	9.10E-07	4.51E-07
1957	256385.63	4084122.52	1.23E-06	1.78E-05	1.31E-05	1.31E-05	7.31E-06	1.87E-07	2.71E-06	2.05E-06	2.05E-06	1.13E-06	1.01E-07	1.47E-06	9.10E-07	9.10E-07	4.51E-07
1958	256400.92	4084081.21	1.24E-06	1.79E-05	1.32E-05	1.32E-05	7.34E-06	1.88E-07	2.72E-06	2.06E-06	2.06E-06	1.13E-06	1.02E-07	1.47E-06	9.15E-07	9.15E-07	4.53E-07
1959	256416.22	4084039.91	1.24E-06	1.79E-05	1.32E-05	1.32E-05	7.37E-06	1.88E-07	2.73E-06	2.06E-06	2.06E-06	1.13E-06	1.02E-07	1.48E-06	9.18E-07	9.18E-07	4.54E-07
1960	256431.51	4083998.6	1.24E-06	1.80E-05	1.32E-05	1.32E-05	7.38E-06	1.88E-07	2.74E-06	2.07E-06	2.07E-06	1.14E-06	1.02E-07	1.48E-06	9.20E-07	9.20E-07	4.55E-07
1961	256446.81	4083957.29	1.23E-06	1.78E-05	1.32E-05	1.32E-05	7.33E-06	1.87E-07	2.72E-06	2.05E-06	2.05E-06	1.13E-06	1.02E-07	1.47E-06	9.14E-07	9.14E-07	4.52E-07
1962	256474.45	4083927.4	1.23E-06	1.78E-05	1.31E-05	1.31E-05	7.32E-06	1.87E-07	2.71E-06	2.05E-06	2.05E-06	1.13E-06	1.02E-07	1.47E-06	9.12E-07	9.12E-07	4.51E-07
1963	256514.44	4083908.93	1.24E-06	1.79E-05	1.32E-05	1.32E-05	7.34E-06	1.88E-07	2.72E-06	2.06E-06	2.06E-06	1.13E-06	1.02E-07	1.47E-06	9.15E-07	9.15E-07	4.53E-07
1964	256554.43	4083890.46	1.24E-06	1.79E-05	1.32E-05	1.32E-05	7.34E-06	1.88E-07	2.72E-06	2.06E-06	2.06E-06	1.13E-06	1.02E-07	1.47E-06	9.15E-07	9.15E-07	4.53E-07
1965	256594.41	4083871.98	1.23E-06	1.78E-05	1.31E-05	1.31E-05	7.32E-06	1.87E-07	2.71E-06	2.05E-06	2.05E-06	1.13E-06	1.02E-07	1.47E-06	9.12E-07	9.12E-07	4.51E-07
1966	256634.4	4083853.51	1.23E-06	1.78E-05	1.31E-05	1.31E-05	7.30E-06	1.86E-07	2.70E-06	2.04E-06	2.04E-06	1.12E-06	1.01E-07	1.46E-06	9.09E-07	9.09E-07	4.50E-07
1967	256674.39	4083835.04	1.23E-06	1.77E-05	1.31E-05	1.31E-05	7.28E-06	1.86E-07	2.70E-06	2.04E-06	2.04E-06	1.12E-06	1.01E-07	1.46E-06	9.07E-07	9.07E-07	4.49E-07
1968	256714.37	4083816.56	1.22E-06	1.77E-05	1.30E-05	1.30E-05	7.27E-06	1.86E-07	2.70E-06	2.04E-06	2.04E-06	1.12E-06	1.01E-07	1.46E-06	9.06E-07	9.06E-07	4.48E-07
1969	256754.36	4083798.09	1.22E-06	1.77E-05	1.30E-05	1.30E-05	7.26E-06	1.85E-07	2.69E-06	2.03E-06	2.03E-06	1.12E-06	1.01E-07	1.46E-06	9.04E-07	9.04E-07	4.48E-07
1970	256794.35	4083779.62	1.22E-06	1.76E-05	1.30E-05	1.30E-05	7.23E-06	1.85E-07	2.68E-06	2.03E-06	2.03E-06	1.11E-06	1.00E-07	1.45E-06	9.01E-07	9.01E-07	4.46E-07
1971	256834.33	4083761.14	1.21E-06	1.75E-05	1.29E-05	1.29E-05	7.21E-06	1.84E-07	2.67E-06	2.02E-06	2.02E-06	1.11E-06	1.00E-07	1.45E-06	8.98E-07	8.98E-07	4.45E-07
1972	256874.32	4083742.67	1.21E-06	1.75E-05	1.29E-05	1.29E-05	7.20E-06	1.84E-07	2.67E-06	2.02E-06	2.02E-06	1.11E-06	9.98E-08	1.44E-06	8.97E-07	8.97E-07	4.44E-07
1973	256914.31	4083724.2	1.21E-06	1.75E-05	1.29E-05	1.29E-05	7.17E-06	1.83E-07	2.66E-06	2.01E-06	2.01E-06	1.10E-06	9.95E-08	1.44E-06	8.94E-07	8.94E-07	4.42E-07
1974	256954.29	4083705.72	1.20E-06	1.74E-05	1.28E-05	1.28E-05	7.15E-06	1.83E-07	2.65E-06	2.00E-06	2.00E-06	1.10E-06	9.91E-08	1.43E-06	8.91E-07	8.91E-07	4.41E-07
1975	256994.28	4083687.25	1.20E-06	1.73E-05	1.28E-05	1.28E-05	7.12E-06	1.82E-07	2.64E-06	2.00E-06	2.00E-06	1.10E-06	9.88E-08	1.43E-06	8.88E-07	8.88E-07	4.39E-07
1976	257034.27	4083668.78	1.19E-06	1.72E-05	1.27E-05	1.27E-05	7.09E-06	1.81E-07	2.63E-06	1.98E-06	1.98E-06	1.09E-06	9.83E-08	1.42E-06	8.83E-07	8.83E-07	4.37E-07
1977	257074.25	4083650.3	1.18E-06	1.71E-05	1.26E-05	1.26E-05	7.04E-06	1.80E-07	2.61E-06	1.97E-06	1.97E-06	1.08E-06	9.76E-08	1.41E-06	8.77E-07	8.77E-07	4.34E-07
1978	257114.24	4083631.83	1.17E-06	1.70E-05	1.25E-05	1.25E-05	6.98E-06	1.78E-07	2.59E-06	1.95E-06	1.95E-06	1.07E-06	9.68E-08	1.40E-06	8.70E-07	8.70E-07	4.30E-07
1979	257154.23	4083613.36	1.16E-06	1.68E-05	1.24E-05	1.24E-05	6.91E-06	1.76E-07	2.56E-06	1.93E-06	1.93E-06	1.06E-06	9.58E-08	1.39E-06	8.60E-07	8.60E-07	4.26E-07
1980	257194.21	4083594.88	1.15E-06	1.66E-05	1.22E-05	1.22E-05	6.81E-06	1.74E-07	2.52E-06	1.91E-06	1.91E-06	1.05E-06	9.44E-08	1.37E-06	8.48E-07	8.48E-07	4.20E-07
1981	257234.2	4083576.41	1.13E-06	1.63E-05	1.20E-05	1.20E-05	6.70E-06	1.71E-07	2.48E-06	1.88E-06	1.88E-06	1.03E-06	9.29E-08	1.34E-06	8.35E-07	8.35E-07	4.13E-07
1982	257274.19	4083557.94	1.11E-06	1.60E-05	1.18E-05	1.18E-05	6.59E-06	1.68E-07	2.44E-06	1.85E-06	1.85E-06	1.01E-06	9.14E-08	1.32E-06	8.21E-07	8.21E-07	4.06E-07
1983	257314.18	4083539.47	1.09E-06	1.58E-05	1.16E-05	1.16E-05	6.48E-06	1.65E-07	2.40E-06	1.81E-06	1.81E-06	9.98E-07	8.99E-08	1.30E-06	8.07E-07	8.07E-07	4.00E-07
1984	257354.16	4083520.99	1.08E-06	1.56E-05	1.15E-05	1.15E-05	6.39E-06	1.63E-07	2.37E-06	1.79E-06	1.79E-06	9.84E-07	8.87E-08	1.28E-06	7.97E-07	7.97E-07	3.94E-07
1985	257394.15	4083502.52	1.07E-06	1.54E-05	1.14E-05	1.14E-05	6.33E-06	1.62E-07	2.35E-06	1.77E-06	1.77E-06	9.75E-07	8.78E-08	1.27E-06	7.89E-07	7.89E-07	3.91E-07
1986	257434.14	4083484.05	1.06E-06	1.54E-05	1.13E-05	1.13E-05	6.31E-06	1.61E-07	2.34E-06	1.77E-06	1.77E-06	9.71E-07	8.75E-08	1.27E-06	7.86E-07	7.86E-07	3.89E-07
1987	256057.58	4085032.89	3.50E-06	5.07E-05	3.74E-05	3.74E-05	2.08E-05	5.32E-07	7.72E-06	5.83E-06	5.83E-06	3.21E-06	2.89E-07	4.18E-06	2.59E-06	2.59E-06	1.28E-06
1988	256059.24	4085077.45	3.64E-06	5.27E-05	3.88E-05	3.88E-05	2.17E-05	5.53E-07	8.03E-06	6.06E-06	6.06E-06	3.33E-06	3.00E-07	4.34E-06	2.70E-06	2.70E-06	1.34E-06
1989	256060.89	4085122.02	3.72E-06	5.39E-05	3.97E-05	3.97E-05	2.21E-05	5.65E-07	8.20E-06	6.20E-06	6.20E-06	3.41E-06	3.07E-07	4.44E-06	2.76E-06	2.76E-06	1.36E-06
1990	256062.54	4085166.58	3.76E-06	5.44E-05	4.01E-05	4.01E-05	2.24E-05	5.71E-07	8.29E-06	6.27E-06	6.27E-06	3.44E-06	3.10E-07	4.49E-06	2.79E-06	2.79E-06	1.38E-06
1991	256064.19	4085211.14	3.79E-06	5.49E-05	4.05E-05	4.05E-05	2.26E-05	5.76E-07	8.36E-06	6.32E-06	6.32E-06	3.47E-06	3.13E-07	4.52E-06	2.81E-06	2.81E-06	1.39E-06

1992	257564.27	4085180.58	4.57E-04	6.61E-03	4.87E-03	4.87E-03	2.72E-03	6.94E-05	1.01E-03	7.61E-04	7.61E-04	4.18E-04	3.77E-05	5.45E-04	3.38E-04	3.38E-04	1.68E-04
1993	257588.55	4085179.5	5.39E-04	7.79E-03	5.75E-03	5.75E-03	3.20E-03	8.18E-05	1.19E-03	8.97E-04	8.97E-04	4.93E-04	4.44E-05	6.43E-04	3.99E-04	3.99E-04	1.98E-04
1994	257612.83	4085178.42	5.88E-04	8.50E-03	6.26E-03	6.26E-03	3.49E-03	8.92E-05	1.29E-03	9.78E-04	9.78E-04	5.38E-04	4.84E-05	7.01E-04	4.35E-04	4.35E-04	2.15E-04
1995	257637.11	4085177.35	6.18E-04	8.93E-03	6.58E-03	6.58E-03	3.67E-03	9.37E-05	1.36E-03	1.03E-03	1.03E-03	5.65E-04	5.09E-05	7.36E-04	4.57E-04	4.57E-04	2.26E-04
1996	257661.39	4085176.27	6.38E-04	9.22E-03	6.80E-03	6.80E-03	3.79E-03	9.68E-05	1.41E-03	1.06E-03	1.06E-03	5.84E-04	5.26E-05	7.60E-04	4.72E-04	4.72E-04	2.34E-04
1997	257685.68	4085175.2	6.52E-04	9.43E-03	6.95E-03	6.95E-03	3.88E-03	9.90E-05	1.44E-03	1.09E-03	1.09E-03	5.97E-04	5.37E-05	7.77E-04	4.83E-04	4.83E-04	2.39E-04
1998	257709.96	4085174.12	6.63E-04	9.58E-03	7.06E-03	7.06E-03	3.94E-03	1.01E-04	1.46E-03	1.10E-03	1.10E-03	6.06E-04	5.46E-05	7.90E-04	4.91E-04	4.91E-04	2.43E-04
1999	257734.24	4085173.05	6.70E-04	9.69E-03	7.14E-03	7.14E-03	3.98E-03	1.02E-04	1.48E-03	1.12E-03	1.12E-03	6.13E-04	5.52E-05	7.99E-04	4.96E-04	4.96E-04	2.46E-04
2000	257758.52	4085171.97	6.76E-04	9.78E-03	7.21E-03	7.21E-03	4.02E-03	1.03E-04	1.49E-03	1.13E-03	1.13E-03	6.19E-04	5.57E-05	8.06E-04	5.01E-04	5.01E-04	2.48E-04
2001	257782.8	4085170.9	6.80E-04	9.84E-03	7.25E-03	7.25E-03	4.04E-03	1.03E-04	1.50E-03	1.13E-03	1.13E-03	6.22E-04	5.61E-05	8.11E-04	5.04E-04	5.04E-04	2.49E-04
2002	257807.08	4085169.82	6.83E-04	9.88E-03	7.28E-03	7.28E-03	4.06E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.25E-04	5.63E-05	8.14E-04	5.06E-04	5.06E-04	2.50E-04
2003	257831.37	4085168.75	6.85E-04	9.91E-03	7.30E-03	7.30E-03	4.07E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.27E-04	5.65E-05	8.17E-04	5.07E-04	5.07E-04	2.51E-04
2004	257855.65	4085167.67	6.86E-04	9.93E-03	7.32E-03	7.32E-03	4.08E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.28E-04	5.66E-05	8.18E-04	5.08E-04	5.08E-04	2.52E-04
2005	257879.93	4085166.59	6.87E-04	9.94E-03	7.32E-03	7.32E-03	4.08E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.29E-04	5.66E-05	8.19E-04	5.09E-04	5.09E-04	2.52E-04
2006	257904.21	4085165.52	6.87E-04	9.93E-03	7.32E-03	7.32E-03	4.08E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.29E-04	5.66E-05	8.19E-04	5.09E-04	5.09E-04	2.52E-04
2007	257928.49	4085164.44	6.86E-04	9.93E-03	7.32E-03	7.32E-03	4.08E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.28E-04	5.66E-05	8.18E-04	5.08E-04	5.08E-04	2.52E-04
2008	257952.78	4085163.37	6.85E-04	9.91E-03	7.30E-03	7.30E-03	4.07E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.27E-04	5.65E-05	8.17E-04	5.07E-04	5.07E-04	2.51E-04
2009	257977.06	4085162.29	6.83E-04	9.88E-03	7.28E-03	7.28E-03	4.06E-03	1.04E-04	1.50E-03	1.14E-03	1.14E-03	6.25E-04	5.63E-05	8.14E-04	5.06E-04	5.06E-04	2.50E-04
2010	258001.34	4085161.22	6.80E-04	9.84E-03	7.25E-03	7.25E-03	4.04E-03	1.03E-04	1.50E-03	1.13E-03	1.13E-03	6.23E-04	5.61E-05	8.11E-04	5.04E-04	5.04E-04	2.49E-04
2011	258025.62	4085160.14	6.77E-04	9.79E-03	7.22E-03	7.22E-03	4.02E-03	1.03E-04	1.49E-03	1.13E-03	1.13E-03	6.20E-04	5.58E-05	8.07E-04	5.01E-04	5.01E-04	2.48E-04
2012	258049.9	4085159.07	6.73E-04	9.74E-03	7.18E-03	7.18E-03	4.00E-03	1.02E-04	1.48E-03	1.12E-03	1.12E-03	6.16E-04	5.55E-05	8.03E-04	4.98E-04	4.98E-04	2.47E-04
2013	258074.18	4085157.99	6.68E-04	9.66E-03	7.12E-03	7.12E-03	3.97E-03	1.01E-04	1.47E-03	1.11E-03	1.11E-03	6.11E-04	5.50E-05	7.96E-04	4.95E-04	4.95E-04	2.45E-04
2014	258098.47	4085156.92	6.50E-04	9.41E-03	6.93E-03	6.93E-03	3.87E-03	9.87E-05	1.43E-03	1.08E-03	1.08E-03	5.95E-04	5.36E-05	7.75E-04	4.82E-04	4.82E-04	2.38E-04
2015	258122.75	4085155.84	6.42E-04	9.28E-03	6.84E-03	6.84E-03	3.81E-03	9.74E-05	1.41E-03	1.07E-03	1.07E-03	5.87E-04	5.29E-05	7.65E-04	4.75E-04	4.75E-04	2.35E-04
2016	258147.03	4085154.76	6.32E-04	9.14E-03	6.73E-03	6.73E-03	3.75E-03	9.59E-05	1.39E-03	1.05E-03	1.05E-03	5.78E-04	5.21E-05	7.53E-04	4.68E-04	4.68E-04	2.32E-04
2017	258171.31	4085153.69	6.19E-04	8.96E-03	6.60E-03	6.60E-03	3.68E-03	9.40E-05	1.36E-03	1.03E-03	1.03E-03	5.67E-04	5.10E-05	7.38E-04	4.59E-04	4.59E-04	2.27E-04
2018	258195.59	4085152.61	6.03E-04	8.72E-03	6.43E-03	6.43E-03	3.58E-03	9.15E-05	1.33E-03	1.00E-03	1.00E-03	5.52E-04	4.97E-05	7.19E-04	4.47E-04	4.47E-04	2.21E-04
2019	258219.88	4085151.54	5.82E-04	8.42E-03	6.20E-03	6.20E-03	3.46E-03	8.83E-05	1.28E-03	9.69E-04	9.69E-04	5.33E-04	4.80E-05	6.94E-04	4.31E-04	4.31E-04	2.13E-04
2020	258244.16	4085150.46	5.55E-04	8.02E-03	5.91E-03	5.91E-03	3.30E-03	8.42E-05	1.22E-03	9.23E-04	9.23E-04	5.08E-04	4.57E-05	6.61E-04	4.11E-04	4.11E-04	2.03E-04
2021	258268.44	4085149.39	5.18E-04	7.50E-03	5.52E-03	5.52E-03	3.08E-03	7.86E-05	1.14E-03	8.63E-04	8.63E-04	4.74E-04	4.27E-05	6.18E-04	3.84E-04	3.84E-04	1.90E-04
2022	258292.72	4085148.31	4.68E-04	6.78E-03	4.99E-03	4.99E-03	2.78E-03	7.11E-05	1.03E-03	7.80E-04	7.80E-04	4.29E-04	3.86E-05	5.59E-04	3.47E-04	3.47E-04	1.72E-04
2023	258317	4085147.24	4.00E-04	5.79E-03	4.26E-03	4.26E-03	2.38E-03	6.07E-05	8.81E-04	6.66E-04	6.66E-04	3.66E-04	3.30E-05	4.77E-04	2.96E-04	2.96E-04	1.47E-04
2024	258341.28	4085146.16	3.11E-04	4.51E-03	3.32E-03	3.32E-03	1.85E-03	4.73E-05	6.86E-04	5.18E-04	5.18E-04	2.85E-04	2.57E-05	3.71E-04	2.31E-04	2.31E-04	1.14E-04
2025	258365.57	4085145.09	2.24E-04	3.24E-03	2.39E-03	2.39E-03	1.33E-03	3.40E-05	4.94E-04	3.73E-04	3.73E-04	2.05E-04	1.85E-05	2.67E-04	1.66E-04	1.66E-04	8.22E-05
2026	257547.32	4085198.96	3.17E-04	4.58E-03	3.37E-03	3.37E-03	1.88E-03	4.80E-05	6.97E-04	5.27E-04	5.27E-04	2.90E-04	2.61E-05	3.77E-04	2.34E-04	2.34E-04	1.16E-04
2027	257589.65	4085204.48	3.68E-04	5.32E-03	3.92E-03	3.92E-03	2.19E-03	5.59E-05	8.11E-04	6.13E-04	6.13E-04	3.37E-04	3.03E-05	4.39E-04	2.73E-04	2.73E-04	1.35E-04
2028	257613.94	4085203.4	3.96E-04	5.72E-03	4.22E-03	4.22E-03	2.35E-03	6.00E-05	8.71E-04	6.58E-04	6.58E-04	3.62E-04	3.26E-05	4.72E-04	2.93E-04	2.93E-04	1.45E-04
2029	257638.22	4085202.32	4.15E-04	6.00E-03	4.42E-03	4.42E-03	2.47E-03	6.30E-05	9.14E-04	6.90E-04	6.90E-04	3.80E-04	3.42E-05	4.95E-04	3.07E-04	3.07E-04	1.52E-04
2030	257662.5	4085201.25	4.29E-04	6.20E-03	4.57E-03	4.57E-03	2.55E-03	6.51E-05	9.44E-04	7.13E-04	7.13E-04	3.92E-04	3.53E-05	5.11E-04	3.17E-04	3.17E-04	1.57E-04
2031	257686.78	4085200.17	4.39E-04	6.35E-03	4.68E-03	4.68E-03	2.61E-03	6.66E-05	9.67E-04	7.31E-04	7.31E-04	4.02E-04	3.62E-05	5.23E-04	3.25E-04	3.25E-04	1.61E-04
2032	257711.06	4085199.1	4.47E-04	6.46E-03	4.76E-03	4.76E-03	2.66E-03	6.78E-05	9.85E-04	7.44E-04	7.44E-04	4.09E-04	3.68E-05	5.33E-04	3.31E-04	3.31E-04	1.64E-04
2033	257735.35	4085198.02	4.53E-04	6.55E-03	4.83E-03	4.83E-03	2.69E-03	6.87E-05	9.98E-04	7.54E-04	7.54E-04	4.14E-04	3.73E-05	5.40E-04	3.35E-04	3.35E-04	1.66E-04
2034	257759.63	4085196.95	4.58E-04	6.62E-03	4.88E-03	4.88E-03	2.72E-03	6.94E-05	1.01E-03	7.62E-04	7.62E-04	4.19E-04	3.77E-05	5.45E-04	3.39E-04	3.39E-04	1.68E-04
2035	257783.91	4085195.87	4.61E-04	6.67E-03	4.92E-03	4.92E-03	2.74E-03	7.00E-05	1.02E-03	7.68E-04	7.68E-04	4.22E-04	3.80E-05	5.50E-04	3.41E-04	3.41E-04	1.69E-04
2036	257808.19	4085194.8	4.64E-04	6.71E-03	4.94E-03	4.94E-03	2.76E-03	7.04E-05	1.02E-03	7.72E-04	7.72E-04	4.24E-04	3.82E-05	5.53E-04	3.43E-04	3.43E-04	1.70E-04
2037	257832.47	4085193.72	4.66E-04	6.74E-03	4.96E-03	4.96E-03	2.77E-03	7.07E-05	1.03E-03	7.75E-04	7.75E-04	4.26E-04	3.84E-05	5.55E-04	3.45E-04	3.45E-04	1.71E-04
2038	257856.75	4085192.65	4.67E-04	6.75E-03	4.98E-03	4.98E-03	2.77E-03	7.09E-05	1.03E-03	7.77E-04	7.77E-04	4.27E-04	3.85E-05	5.57E-04	3.46E-04	3.46E-04	1.71E-04
2039	257881.04	4085191.57	4.67E-04	6.76E-03	4.98E-03	4.98E-03	2.78E-03	7.09E-05	1.03E-03	7.78E-04	7.78E-04	4.28E-04	3.85E-05	5.57E-04	3.46E-04	3.46E-04	1.71E-04
2040	257905.32	4085190.49	4.67E-04	6.76E-03	4.98E-03	4.98E-03	2.78E-03	7.10E-05	1.03E-03	7.78E-04	7.78E-04	4.28E-04	3.85E-05	5.57E-04	3.46E-04	3.46E-04	1.71E-04
2041	257929.6	4085189.42	4.67E-04	6.75E-03	4.98E-03	4.98E-03	2.77E-03	7.08E-05	1.03E-03	7.77E-04	7.77E-04	4.27E-04	3.85E-05	5.57E-04	3.46E-04	3.46E-04	1.71E-04
2042	257953.88	4085188.34	4.66E-04	6.73E-03	4.96E-03	4.96E-03	2.77E-03	7.07E-05	1.03E-03	7.75E-04	7.75E-04	4.26E-04	3.84E-05	5.55E-04	3.45E-04	3.45E-04	1.71E-04
2043	257978.16	4085187.27	4.58E-04	6.62E-03	4.88E-03	4.88E-03	2.72E-03	6.95E-05	1.01E-03	7.62E-04	7.62E-04	4.19E-04	3.78E-05	5.46E-04	3.39E-04	3.39E-04	1.68E-04
2044	258002.45	4085186.19	4.55E-04	6.59E-03	4.85E-03	4.85E-03	2.71E-03	6.91E-05	1.00E-03	7.58E-04	7.58E-04	4.17E-04	3.75E-05	5.43E-04	3.37E-04	3.37E-04	1.67E-04
2045	258026.73	4085185.12	4.52E-04	6.54E-03	4.82E-03	4.82E-03	2.69E-03	6.86E-05	9.96E-04	7.53E-04	7.53E-04	4.14E-04	3.73E-05	5.39E-04	3.35E-04	3.35E-04	1.66E-04
2046	258051.01	4085184.04	4.48E-04	6.48E-03	4.78E-03	4.78E-03	2.66E-03	6.80E-05	9.87E-04	7.46E-04	7.46E-04	4.10E-04	3.69E-05	5.34E-04	3.32E-04	3.32E-04	1.64E-04
2047	258075.29	4085182.97	4.43E-04	6.40E-03	4.72E-03	4.72E-03	2.63E-03	6.72E-05	9.75E-04	7.37E-04	7.37E-04	4.05E-04	3.65E-05	5.28E-04	3.28E-04	3.28E-04	1.62E-04
2048	258099.57	4085181.89	4.36E-04	6.31E-03	4.65E-03	4.65E-03	2.59E-03	6.62E-05	9.61E-04	7.26E-04	7.26E-04	3.99E-04	3.60E-05	5.20E-04	3.23E-04	3.23E-04	1.60E-04
2049	258123.85	4085180.82	4.28E-04	6.19E-03	4.56E-03	4.56E-03	2.54E-03	6.50E-05	9.44E-04	7.13E-04	7.13E-04	3.92E-04	3.53E-05	5.11E-04	3.17E-04	3.17E-04	1.57E-04
2050	258148.14	4085179.74	4.18E-04	6.05E-03	4.46E-03	4.46E-03	2.49E-03	6.35E-05	9.22E-04	6.96E-04	6.96E-04	3.83E-04	3.45E-05	4.99E-04	3.10E-04	3.10E-04	1.53E-04
2051	258172.42	4085178.66	4.06E-04	5.88E-03	4.33E-03	4.33E-03	2.41E-03	6.16E-05	8.95E-04	6.76E-04	6.76E-04	3.72E-04	3.35E-05	4.84E-04	3.01E-04	3.01E-04	1.49E-04
2052	258196.7	4085177.59	3.91E-04	5.66E-03	4.17E-03	4.17E-03	2.32E-03	5.93E-05	8.62E-04	6.51E-04	6.51E-04	3.58E-04	3.22E-05	4.66E-04	2.90E-04	2.90E-04	1.43E-04
2053	258220.98	4085176.51	3.72E-04	5.38E-03	3.97E-03	3.97E-03	2.21E-03	5.65E-05	8.20E-04	6.19E-04	6.19E-04	3.41E-04	3.07E-05	4.44E-04	2.76E-04	2.76E-04	1.36E-04
2054	258245.26	4085175.44	3.48E-04	5.04E-03	3.71E-03	3.71E-03	2.07E-03	5.29E-05	7.68E-04	5.80E-04	5.80E-04	3.19E-04	2.87E-05	4.15E-04	2.58E-04	2.58E-04	1.28E-04
2055	258269.55	4085174.36	3.19E-04	4.61E-03	3.40E-03	3.40E-03	1.90E-03	4.84E-05	7.03E-04	5.31E-04	5.31E-04	2.92E-04	2.63E-05	3.80E-04	2.36E-04	2.36E-04	1.17E-04
2056	258293.83	4085173.29	2.83E-04	4.09E-03	3.02E-03	3.02E-03	1.68E-03	4.29E-05	6.23E-04	4.71E-04	4.71E-04	2.59E-04	2.33E-05	3.37E-04	2.10E-04	2.10E-04	1.04E-04
2057	258318.11	4085172.21	2.41E-04	3.48E-03	2.56E-03	2.56E-03	1.43E-03	3.65E-05	5.30E-04	4.00E-04	4.00E-04	2.20E-04	1.98E-05	2.87E-04	1.78E-04	1.78E-04	8.82E-05
2058	258342.39	4085171.14	1.95E-04	2.82E-03	2.08E-03	2.08E-03	1.16E-03	2.96E-05	4.30E-04	3.25E-04	3.25E-04	1.79E-04	1.61E-05	2.33E-04	1.45E-04	1.45E-04	7.15E-05
2059	257548.43	4085223.93	2.52E-04	3.65E-03	2.69E-03	2.69E-03	1.50E-03	3.83E-05	5.56E-04	4.20E-04	4.20E-04	2.31E-04	2.08E-05	3.01E-04	1.87E-04	1.87E-04	9.25E-05
2060	257504.29	4085193.29	2.26E-04	3.27E-03	2.41E-03	2.41E-03	1.34E-03	3.43E-05	4.98E-04	3.76E-04	3.76E-04	2.07E-04	1.86E-05	2.70E-04	1.67E-04	1.67E-04	8.29E-05
2061	257590.76	4085229.45	2.80E-04	4.05E-03	2.98E-03	2.98E-03	1.66E-03	4.25E-05	6.17E-04	4.66E-04	4.66E-04	2.56E-04	2.31E-05	3.34E-04	2.07E-04	2.07E-04	1.03E-04
2062	257615.04	4085228.38	2.97E-04	4.30E-03	3.17E-03	3.17E-03	1.77E-03	4.51E-05	6.55E-04	4.95E-04	4.95E-04	2.72E-04	2.45E-05	3.55E-04	2.20E-04	2.20E-04	1.09E-04
2063	257639.32	4085227.3	3.11E-04	4.49E-03	3.31E-03	3.31E-03	1.85E-03	4.72E-05	6.85E-04	5.17E-04	5.17E-04	2.84E-04	2.56E-05	3.70E-04	2.30E-04	2.30E-04	1.14E-04
2064	257663.61	4085226.22	3.21E-04	4.64E-03	3.42E-03	3.42E-03	1.91E-03	4.87E-05	7.07E-04	5.34E-04	5.34E-04	2.94E-04	2.65E-05	3.83E-04	2.38E-04	2.38E-04	1.18E-04
2065	257687.89	4085225.15	3.29E-04	4.75E-03	3.50E-03	3.50E-03	1.95E-03	4.99E-05	7.24E-04	5.47E-04	5.47E-04	3.01E-04	2.71E-05	3.92E-04	2.43E-04	2.43E-04	1.20E-04
2066	257712.17	4085224.07	3.35E-04	4.84E-03	3.57E-03	3.57E-03	1.99E-03	5.08E-05	7.37E-04	5.57E-04	5.57E-04	3.06E-04	2.76E-05	3.99E-04	2.48E-04	2.48E-04	1.23E-04
2067	257736.45	4085223	3.39E-04	4.91E-03	3.62E-03	3.62E-03	2.02E-03	5.15E-05	7.48E-04	5.65E-04	5.65E-04	3.11E-04	2.80E-05	4.05E-04	2.51E-04	2.51E-04	1.24E-04
2068	257760.73	4085221.92	3.43E-04	4.96E-03	3.66E-03	3.66E-03	2.04E-03	5.21E-05	7.56E-04	5.71E-04	5.71E-04	3.14E-04	2.83E-05	4.09E-04	2.54E-04	2.54E-04	1.26E-04
2069	257785.01	4085220.85	3.46E-04	5.00E-03	3.69E-03	3.69E-03	2.05E-03	5.25E-05	7.62E-04	5.75E-04	5.75E-04	3.16E-04	2.85E-05	4.12E-04	2.56E-04	2.56E-04	1.27E-04
2070	257809.3	4085219.77	3.48E-04	5.03E-03	3.71E-03	3.71E-03	2.07E-03	5.28E-05	7.66E-04	5.79E-04	5.79E-04	3.18E-04	2.87E-05	4.15E-04	2.58E-04	2.58E-04	1.27E-04
2071	257833.58	4085218.7	3.49E-04	5.05E-03	3.72E-03	3.72E-03	2.07E-03	5.30E-05	7.69E-04	5.81E-04	5.81E-04	3.19E-04	2.88E-05	4.16E-04	2.59E-04	2.59E-04	1.28E-04
2072	257857.86	4085217.62	3.50E-04	5.06E-03	3.73E-03	3.73E-03	2.08E-03	5.31E-05	7.71E-04	5.83E-04	5.83E-04	3.20E-04	2.88E-05	4.17E-04	2.59E-04	2.59E-04	1.28E-04
2073	257882.14	4085216.55	3.50E-04	5.07E-03	3.73E-03	3.73E-03	2.08E-03	5.32E-05	7.72E-04	5.83E-04	5.83E-04	3.21E-04	2.89E-05	4.18E-04	2.59E-04	2.59E-04	1.28E-04
2074	257906.42	4085215.47	3.49E-04	5.04E-03	3.72E-03	3.72E-03	2.07E-03	5.29E-05	7.68E-04	5.80E-04	5.80E-04	3.19E-04	2.87E-05	4.16E-04	2.58E-04	2.58E-04	1.28E-04
2075	257930.71	4085214.39	3.45E-04	5.00E-03	3.68E-03	3.68E-03	2.05E-03	5.24E-05	7.61E-04	5.75E-04	5.75E-04	3.16E-04	2.85E-05	4.12E-04	2.56E-04	2.56E-04	1.27E-04
2076	257954.99	4085213.32	3.44E-04	4.98E-03	3.67E-03	3.67E-03	2.04E-03	5.22E-05	7.58E-04	5.73E-04	5.73E-04	3.15E-04	2.84E-05	4.10E-04	2.55E-04	2.55E-04	1.26E-04
2077	257979.27	4085212.24	3.42E-04	4.95E-03	3.65E-03	3.65E-03	2.03E-03	5.19E-05	7.54E-04	5.69E-04	5.69E-04	3.13E-04	2.82E-05	4.08E-04	2.53E-04	2.53E-04	1.25E-04
2078	258003.55	4085211.17	3.39E-04	4.91E-03	3.62E-03	3.62E-03	2.02E-03	5.15E-05	7.48E-04	5.65E-04	5.65E-04	3.11E-04	2.80E-05	4.05E-04	2.51E-04	2.51E-04	1.24E-04
2079	258027.83	4085210.09	3.36E-04	4.86E-03	3.58E-03	3.58E-03	2.00E-03	5.10E-05	7.40E-04	5.59E-04	5.59E-04	3.07E-04	2.77E-05	4.01E-04	2.49E-04	2.49E-04	1.23E-04
2080	258052.11	4085209.02	3.32E-04	4.80E-03	3.54E-03	3.54E-03	1.97E-03	5.03E-05	7.31E-04	5.52E-04	5.52E-04	3.03E-04	2.73E-05	3.95E-04	2.46E-04	2.46E-04	1.22E-04
2081	258076.4	4085207.94	3.26E-04	4.72E-03	3.48E-03	3.48E-03	1.94E-03	4.95E-05	7.19E-04	5.43E-04	5.43E-04	2.99E-04	2.69E-05	3.89E-04	2.42E-04	2.42E-04	1.20E-04
2082	258100.68	4085206.87	3.20E-04	4.63E-03	3.41E-03	3.41E-03	1.90E-03	4.86E-05	7.05E-04	5.33E-04	5.33E-04	2.93E-04	2.64E-05	3.81E-04	2.37E-04	2.37E-04	1.17E-04
2083	258124.96	4085205.79	3.12E-04	4.52E-03	3.33E-03	3.33E-03	1.86E-03	4.74E-05	6.88E-04	5.20E-04	5.20E-04	2.86E-04	2.57E-05	3.72E-04	2.31E-04	2.31E-04	1.14E-04
2084	258149.24	4085204.72	3.03E-04	4.38E-03	3.23E-03	3.23E-03	1.80E-03	4.60E-05	6.67E-04	5.04E-04	5.04E-04	2.77E-04	2.50E-05	3.61E-04	2.24E-04	2.24E-04	1.11E-04
2085	258173.52	4085203.64	2.92E-04	4.22E-03	3.11E-03	3.11E-03	1.73E-03	4.42E-05	6.42E-04	4.85E-04	4.85E-04	2.67E-04	2.40E-05	3.48E-04	2.16E-04	2.16E-04	1.07E-04
2086	258197.81	4085202.56	2.78E-04	4.02E-03	2.96E-03	2.96E-03	1.65E-03	4.22E-05	6.12E-04	4.63E-04	4.63E-04	2.54E-04	2.29E-05	3.31E-04	2.06E-04	2.06E-04	1.02E-04
2087	258222.09	4085201.49	2.62E-04	3.78E-03	2.79E-03	2.79E-03	1.56E-03	3.97E-05	5.77E-04	4.36E-04	4.36E-04	2.39E-04	2.16E-05	3.12E-04	1.94E-04	1.94E-04	9.59E-05
2088	258246.37	4085200.41	2.42E-04	3.51E-03	2.58E-03	2.58E-03	1.44E-03	3.68E-05	5.34E-04	4.03E-04	4.03E-04	2.22E-04	2.00E-05	2.89E-04	1.80E-04	1.80E-04	8.89E-05
2089	258270.65	4085199.34	2.20E-04	3.18E-03	2.34E-03	2.34E-03	1.31E-03	3.34E-05	4.85E-04	3.66E-04	3.66E-04	2.01E-04	1.81E-05	2.62E-04	1.63E-04	1.63E-04	8.06E-05
2090	258294.93	4085198.26	1.95E-04	2.82E-03	2.08E-03	2.08E-03	1.16E-03	2.95E-05	4.29E-04	3.24E-04	3.24E-04	1.78E-04	1.60E-05	2.32E-04	1.44E-04	1.44E-04	7.14E-05
2091	258319.21	4085197.19	1.68E-04	2.42E-03	1.79E-03	1.79E-03	9.96E-04	2.54E-05	3.69E-04	2.79E-04	2.79E-04	1.53E-04	1.38E-05	2.00E-04	1.24E-04	1.24E-04	6.14E-05
2092	258343.5	4085196.11	1.41E-04	2.03E-03	1.50E-03	1.50E-03	8.36E-04	2.13E-05	3.10E-04	2.34E-04	2.34E-04	1.29E-04	1.16E-05	1.68E-04	1.04E-04	1.04E-04	5.16E-05
2093	258367.78	4085195.04	1.17E-04	1.69E-03	1.24E-03	1.24E-03	6.93E-04	1.77E-05	2.57E-04	1.94E-04	1.94E-04	1.07E-04	9.61E-06	1.39E-04	8.64E-05	8.64E-05	4.27E-05
2094	257549.53	4085248.91	2.08E-04	3.01E-03	2.22E-03	2.22E-03	1.24E-03	3.16E-05	4.59E-04	3.47E-04	3.47E-04	1.91E-04	1.72E-05	2.48E-04	1.54E-04	1.54E-04	7.63E-05
2095	257513.43	4085235.72	1.92E-04	2.78E-03	2.05E-03	2.05E-03	1.14E-03	2.92E-05	4.24E-04	3.20E-04	3.20E-04	1.76E-04	1.59E-05	2.29E-04	1.42E-04	1.42E-04	7.05E-05
2096	257487.34	4085211.67	1.82E-04	2.63E-03	1.94E-03	1.94E-03	1.08E-03	2.76E-05	4.01E-04	3.03E-04	3.03E-04	1.66E-04	1.50E-05	2.17E-04	1.35E-04	1.35E-04	6.67E-05

2097	257471.27	4085176.76	1.70E-04	2.45E-03	1.81E-03	1.81E-03	1.01E-03	2.57E-05	3.74E-04	2.82E-04	2.82E-04	1.55E-04	1.40E-05	2.02E-04	1.26E-04	1.26E-04	6.22E-05
2098	257591.87	4085254.43	2.25E-04	3.26E-03	2.40E-03	2.40E-03	1.34E-03	3.42E-05	4.97E-04	3.75E-04	3.75E-04	2.06E-04	1.86E-05	2.69E-04	1.67E-04	1.67E-04	8.27E-05
2099	257616.15	4085253.35	2.37E-04	3.43E-03	2.53E-03	2.53E-03	1.41E-03	3.60E-05	5.23E-04	3.95E-04	3.95E-04	2.17E-04	1.96E-05	2.83E-04	1.76E-04	1.76E-04	8.71E-05
2100	257640.43	4085252.28	2.47E-04	3.57E-03	2.63E-03	2.63E-03	1.47E-03	3.75E-05	5.44E-04	4.11E-04	4.11E-04	2.26E-04	2.04E-05	2.95E-04	1.83E-04	1.83E-04	9.06E-05
2101	257664.71	4085251.2	2.55E-04	3.68E-03	2.72E-03	2.72E-03	1.51E-03	3.87E-05	5.61E-04	4.24E-04	4.24E-04	2.33E-04	2.10E-05	3.04E-04	1.89E-04	1.89E-04	9.34E-05
2102	257688.99	4085250.12	2.61E-04	3.77E-03	2.78E-03	2.78E-03	1.55E-03	3.96E-05	5.74E-04	4.34E-04	4.34E-04	2.39E-04	2.15E-05	3.11E-04	1.93E-04	1.93E-04	9.56E-05
2103	257713.28	4085249.05	2.65E-04	3.84E-03	2.83E-03	2.83E-03	1.58E-03	4.03E-05	5.85E-04	4.42E-04	4.42E-04	2.43E-04	2.19E-05	3.16E-04	1.97E-04	1.97E-04	9.73E-05
2104	257737.56	4085247.97	2.69E-04	3.89E-03	2.87E-03	2.87E-03	1.60E-03	4.08E-05	5.93E-04	4.48E-04	4.48E-04	2.46E-04	2.22E-05	3.21E-04	1.99E-04	1.99E-04	9.86E-05
2105	257761.84	4085246.9	2.72E-04	3.93E-03	2.90E-03	2.90E-03	1.62E-03	4.13E-05	5.99E-04	4.52E-04	4.52E-04	2.49E-04	2.24E-05	3.24E-04	2.01E-04	2.01E-04	9.96E-05
2106	257786.12	4085245.82	2.74E-04	3.96E-03	2.92E-03	2.92E-03	1.63E-03	4.16E-05	6.04E-04	4.56E-04	4.56E-04	2.51E-04	2.26E-05	3.27E-04	2.03E-04	2.03E-04	1.00E-04
2107	257810.4	4085244.75	2.75E-04	3.98E-03	2.94E-03	2.94E-03	1.64E-03	4.18E-05	6.07E-04	4.58E-04	4.58E-04	2.52E-04	2.27E-05	3.28E-04	2.04E-04	2.04E-04	1.01E-04
2108	257834.68	4085243.67	2.76E-04	4.00E-03	2.95E-03	2.95E-03	1.64E-03	4.19E-05	6.09E-04	4.60E-04	4.60E-04	2.53E-04	2.28E-05	3.29E-04	2.05E-04	2.05E-04	1.01E-04
2109	257858.97	4085242.6	2.77E-04	4.00E-03	2.95E-03	2.95E-03	1.64E-03	4.20E-05	6.10E-04	4.61E-04	4.61E-04	2.53E-04	2.28E-05	3.30E-04	2.05E-04	2.05E-04	1.01E-04
2110	257883.25	4085241.52	2.75E-04	3.98E-03	2.93E-03	2.93E-03	1.63E-03	4.17E-05	6.06E-04	4.57E-04	4.57E-04	2.52E-04	2.27E-05	3.28E-04	2.04E-04	2.04E-04	1.01E-04
2111	257907.53	4085240.45	2.73E-04	3.95E-03	2.91E-03	2.91E-03	1.62E-03	4.15E-05	6.02E-04	4.55E-04	4.55E-04	2.50E-04	2.25E-05	3.26E-04	2.02E-04	2.02E-04	1.00E-04
2112	257931.81	4085239.37	2.72E-04	3.94E-03	2.90E-03	2.90E-03	1.62E-03	4.13E-05	6.00E-04	4.53E-04	4.53E-04	2.49E-04	2.24E-05	3.25E-04	2.02E-04	2.02E-04	9.98E-05
2113	257956.09	4085238.29	2.71E-04	3.91E-03	2.89E-03	2.89E-03	1.61E-03	4.11E-05	5.96E-04	4.50E-04	4.50E-04	2.48E-04	2.23E-05	3.23E-04	2.00E-04	2.00E-04	9.92E-05
2114	257980.38	4085237.22	2.68E-04	3.88E-03	2.86E-03	2.86E-03	1.60E-03	4.07E-05	5.91E-04	4.47E-04	4.47E-04	2.46E-04	2.21E-05	3.20E-04	1.99E-04	1.99E-04	9.84E-05
2115	258004.66	4085236.14	2.66E-04	3.84E-03	2.83E-03	2.83E-03	1.58E-03	4.03E-05	5.85E-04	4.42E-04	4.42E-04	2.43E-04	2.19E-05	3.17E-04	1.97E-04	1.97E-04	9.73E-05
2116	258028.94	4085235.07	2.62E-04	3.79E-03	2.79E-03	2.79E-03	1.56E-03	3.98E-05	5.77E-04	4.36E-04	4.36E-04	2.40E-04	2.16E-05	3.12E-04	1.94E-04	1.94E-04	9.60E-05
2117	258053.22	4085233.99	2.58E-04	3.73E-03	2.75E-03	2.75E-03	1.53E-03	3.91E-05	5.68E-04	4.29E-04	4.29E-04	2.36E-04	2.12E-05	3.07E-04	1.91E-04	1.91E-04	9.44E-05
2118	258077.5	4085232.92	2.52E-04	3.65E-03	2.69E-03	2.69E-03	1.50E-03	3.83E-05	5.56E-04	4.20E-04	4.20E-04	2.31E-04	2.08E-05	3.01E-04	1.87E-04	1.87E-04	9.25E-05
2119	258101.78	4085231.84	2.46E-04	3.56E-03	2.63E-03	2.63E-03	1.46E-03	3.74E-05	5.43E-04	4.10E-04	4.10E-04	2.25E-04	2.03E-05	2.94E-04	1.82E-04	1.82E-04	9.03E-05
2120	258126.07	4085230.77	2.39E-04	3.46E-03	2.55E-03	2.55E-03	1.42E-03	3.63E-05	5.27E-04	3.98E-04	3.98E-04	2.19E-04	1.97E-05	2.85E-04	1.77E-04	1.77E-04	8.76E-05
2121	258150.35	4085229.69	2.30E-04	3.33E-03	2.46E-03	2.46E-03	1.37E-03	3.50E-05	5.08E-04	3.83E-04	3.83E-04	2.11E-04	1.90E-05	2.75E-04	1.71E-04	1.71E-04	8.44E-05
2122	258174.63	4085228.62	2.20E-04	3.19E-03	2.35E-03	2.35E-03	1.31E-03	3.34E-05	4.85E-04	3.67E-04	3.67E-04	2.02E-04	1.82E-05	2.63E-04	1.63E-04	1.63E-04	8.08E-05
2123	258198.91	4085227.54	2.09E-04	3.02E-03	2.22E-03	2.22E-03	1.24E-03	3.17E-05	4.60E-04	3.47E-04	3.47E-04	1.91E-04	1.72E-05	2.49E-04	1.54E-04	1.54E-04	7.65E-05
2124	258223.19	4085226.46	1.95E-04	2.82E-03	2.08E-03	2.08E-03	1.16E-03	2.96E-05	4.30E-04	3.25E-04	3.25E-04	1.79E-04	1.61E-05	2.33E-04	1.45E-04	1.45E-04	7.15E-05
2125	258247.48	4085225.39	1.80E-04	2.60E-03	1.92E-03	1.92E-03	1.07E-03	2.73E-05	3.96E-04	2.99E-04	2.99E-04	1.65E-04	1.48E-05	2.14E-04	1.33E-04	1.33E-04	6.59E-05
2126	258271.76	4085224.31	1.63E-04	2.36E-03	1.74E-03	1.74E-03	9.68E-04	2.47E-05	3.59E-04	2.71E-04	2.71E-04	1.49E-04	1.34E-05	1.94E-04	1.21E-04	1.21E-04	5.97E-05
2127	258296.04	4085223.24	1.45E-04	2.10E-03	1.54E-03	1.54E-03	8.61E-04	2.20E-05	3.19E-04	2.41E-04	2.41E-04	1.33E-04	1.19E-05	1.73E-04	1.07E-04	1.07E-04	5.31E-05
2128	258320.32	4085222.16	1.27E-04	1.83E-03	1.35E-03	1.35E-03	7.52E-04	1.92E-05	2.79E-04	2.11E-04	2.11E-04	1.16E-04	1.04E-05	1.51E-04	9.37E-05	9.37E-05	4.64E-05
2129	258344.6	4085221.09	1.09E-04	1.57E-03	1.16E-03	1.16E-03	6.47E-04	1.65E-05	2.40E-04	1.81E-04	1.81E-04	9.96E-05	8.97E-06	1.30E-04	8.06E-05	8.06E-05	3.99E-05
2130	257548.14	4085297.54	1.52E-04	2.20E-03	1.62E-03	1.62E-03	9.04E-04	2.31E-05	3.35E-04	2.53E-04	2.53E-04	1.39E-04	1.25E-05	1.81E-04	1.13E-04	1.13E-04	5.57E-05
2131	257526.47	4085289.63	1.49E-04	2.16E-03	1.59E-03	1.59E-03	8.88E-04	2.27E-05	3.29E-04	2.49E-04	2.49E-04	1.37E-04	1.23E-05	1.78E-04	1.11E-04	1.11E-04	5.47E-05
2132	257504.81	4085281.71	1.44E-04	2.09E-03	1.54E-03	1.54E-03	8.58E-04	2.19E-05	3.18E-04	2.40E-04	2.40E-04	1.32E-04	1.19E-05	1.72E-04	1.07E-04	1.07E-04	5.29E-05
2133	257483.15	4085273.8	1.37E-04	1.98E-03	1.46E-03	1.46E-03	8.14E-04	2.08E-05	3.02E-04	2.28E-04	2.28E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.02E-05
2134	257451.85	4085244.94	1.29E-04	1.86E-03	1.37E-03	1.37E-03	7.65E-04	1.95E-05	2.84E-04	2.14E-04	2.14E-04	1.18E-04	1.06E-05	1.54E-04	9.54E-05	9.54E-05	4.72E-05
2135	257442.2	4085223.99	1.26E-04	1.83E-03	1.35E-03	1.35E-03	7.51E-04	1.92E-05	2.78E-04	2.10E-04	2.10E-04	1.16E-04	1.04E-05	1.51E-04	9.36E-05	9.36E-05	4.63E-05
2136	257432.55	4085203.05	1.20E-04	1.73E-03	1.28E-03	1.28E-03	7.11E-04	1.82E-05	2.64E-04	1.99E-04	1.99E-04	1.09E-04	9.86E-06	1.43E-04	8.86E-05	8.86E-05	4.38E-05
2137	257422.91	4085182.1	1.10E-04	1.59E-03	1.17E-03	1.17E-03	6.51E-04	1.66E-05	2.41E-04	1.82E-04	1.82E-04	1.00E-04	9.03E-06	1.31E-04	8.12E-05	8.12E-05	4.02E-05
2138	257569.8	4085305.45	1.53E-04	2.21E-03	1.63E-03	1.63E-03	9.08E-04	2.32E-05	3.37E-04	2.54E-04	2.54E-04	1.40E-04	1.26E-05	1.82E-04	1.13E-04	1.13E-04	5.60E-05
2139	257594.08	4085304.38	1.61E-04	2.32E-03	1.71E-03	1.71E-03	9.54E-04	2.44E-05	3.54E-04	2.67E-04	2.67E-04	1.47E-04	1.32E-05	1.91E-04	1.19E-04	1.19E-04	5.88E-05
2140	257618.36	4085303.3	1.67E-04	2.42E-03	1.78E-03	1.78E-03	9.93E-04	2.53E-05	3.68E-04	2.78E-04	2.78E-04	1.53E-04	1.38E-05	1.99E-04	1.24E-04	1.24E-04	6.12E-05
2141	257642.64	4085302.23	1.72E-04	2.49E-03	1.84E-03	1.84E-03	1.02E-03	2.62E-05	3.80E-04	2.87E-04	2.87E-04	1.58E-04	1.42E-05	2.06E-04	1.28E-04	1.28E-04	6.32E-05
2142	257666.92	4085301.15	1.77E-04	2.56E-03	1.89E-03	1.89E-03	1.05E-03	2.68E-05	3.90E-04	2.94E-04	2.94E-04	1.62E-04	1.46E-05	2.11E-04	1.31E-04	1.31E-04	6.48E-05
2143	257691.21	4085300.08	1.81E-04	2.61E-03	1.92E-03	1.92E-03	1.07E-03	2.74E-05	3.98E-04	3.00E-04	3.00E-04	1.65E-04	1.49E-05	2.15E-04	1.34E-04	1.34E-04	6.62E-05
2144	257715.49	4085299	1.83E-04	2.65E-03	1.96E-03	1.96E-03	1.09E-03	2.78E-05	4.04E-04	3.05E-04	3.05E-04	1.68E-04	1.51E-05	2.19E-04	1.36E-04	1.36E-04	6.72E-05
2145	257739.77	4085297.92	1.86E-04	2.68E-03	1.98E-03	1.98E-03	1.10E-03	2.82E-05	4.09E-04	3.09E-04	3.09E-04	1.70E-04	1.53E-05	2.21E-04	1.37E-04	1.37E-04	6.80E-05
2146	257764.05	4085296.85	1.87E-04	2.71E-03	1.99E-03	1.99E-03	1.11E-03	2.84E-05	4.12E-04	3.11E-04	3.11E-04	1.71E-04	1.54E-05	2.23E-04	1.39E-04	1.39E-04	6.86E-05
2147	257788.33	4085295.77	1.88E-04	2.72E-03	2.00E-03	2.00E-03	1.12E-03	2.85E-05	4.14E-04	3.13E-04	3.13E-04	1.72E-04	1.55E-05	2.24E-04	1.39E-04	1.39E-04	6.89E-05
2148	257812.62	4085294.7	1.88E-04	2.71E-03	2.00E-03	2.00E-03	1.12E-03	2.85E-05	4.13E-04	3.12E-04	3.12E-04	1.72E-04	1.55E-05	2.24E-04	1.39E-04	1.39E-04	6.88E-05
2149	257836.9	4085293.62	1.88E-04	2.71E-03	2.00E-03	2.00E-03	1.12E-03	2.85E-05	4.14E-04	3.12E-04	3.12E-04	1.72E-04	1.55E-05	2.24E-04	1.39E-04	1.39E-04	6.88E-05
2150	257861.18	4085292.55	1.87E-04	2.70E-03	1.99E-03	1.99E-03	1.11E-03	2.84E-05	4.12E-04	3.11E-04	3.11E-04	1.71E-04	1.54E-05	2.23E-04	1.38E-04	1.38E-04	6.85E-05
2151	257885.46	4085291.47	1.86E-04	2.69E-03	1.98E-03	1.98E-03	1.11E-03	2.83E-05	4.10E-04	3.10E-04	3.10E-04	1.70E-04	1.53E-05	2.22E-04	1.38E-04	1.38E-04	6.82E-05
2152	257909.74	4085290.4	1.85E-04	2.68E-03	1.97E-03	1.97E-03	1.10E-03	2.81E-05	4.08E-04	3.08E-04	3.08E-04	1.69E-04	1.53E-05	2.21E-04	1.37E-04	1.37E-04	6.78E-05
2153	257934.02	4085289.32	1.83E-04	2.65E-03	1.96E-03	1.96E-03	1.09E-03	2.78E-05	4.04E-04	3.05E-04	3.05E-04	1.68E-04	1.51E-05	2.19E-04	1.36E-04	1.36E-04	6.73E-05
2154	257958.31	4085288.25	1.81E-04	2.62E-03	1.93E-03	1.93E-03	1.08E-03	2.75E-05	4.00E-04	3.02E-04	3.02E-04	1.66E-04	1.50E-05	2.16E-04	1.34E-04	1.34E-04	6.65E-05
2155	257982.59	4085287.17	1.79E-04	2.59E-03	1.91E-03	1.91E-03	1.06E-03	2.72E-05	3.94E-04	2.98E-04	2.98E-04	1.64E-04	1.48E-05	2.13E-04	1.33E-04	1.33E-04	6.56E-05
2156	258006.87	4085286.09	1.76E-04	2.55E-03	1.88E-03	1.88E-03	1.05E-03	2.67E-05	3.88E-04	2.93E-04	2.93E-04	1.61E-04	1.45E-05	2.10E-04	1.30E-04	1.30E-04	6.45E-05
2157	258031.15	4085285.02	1.73E-04	2.50E-03	1.84E-03	1.84E-03	1.03E-03	2.62E-05	3.80E-04	2.87E-04	2.87E-04	1.58E-04	1.42E-05	2.06E-04	1.28E-04	1.28E-04	6.33E-05
2158	258055.43	4085283.94	1.69E-04	2.44E-03	1.80E-03	1.80E-03	1.00E-03	2.56E-05	3.71E-04	2.81E-04	2.81E-04	1.54E-04	1.39E-05	2.01E-04	1.25E-04	1.25E-04	6.18E-05
2159	258079.72	4085282.87	1.64E-04	2.37E-03	1.75E-03	1.75E-03	9.74E-04	2.49E-05	3.61E-04	2.73E-04	2.73E-04	1.50E-04	1.35E-05	1.95E-04	1.21E-04	1.21E-04	6.01E-05
2160	258104	4085281.79	1.59E-04	2.30E-03	1.69E-03	1.69E-03	9.43E-04	2.41E-05	3.50E-04	2.64E-04	2.64E-04	1.45E-04	1.31E-05	1.89E-04	1.18E-04	1.18E-04	5.82E-05
2161	258128.28	4085280.72	1.53E-04	2.21E-03	1.63E-03	1.63E-03	9.08E-04	2.32E-05	3.37E-04	2.54E-04	2.54E-04	1.40E-04	1.26E-05	1.82E-04	1.13E-04	1.13E-04	5.60E-05
2162	258152.56	4085279.64	1.46E-04	2.11E-03	1.56E-03	1.56E-03	8.69E-04	2.22E-05	3.22E-04	2.43E-04	2.43E-04	1.34E-04	1.20E-05	1.74E-04	1.08E-04	1.08E-04	5.36E-05
2163	258176.84	4085278.57	1.39E-04	2.01E-03	1.48E-03	1.48E-03	8.24E-04	2.10E-05	3.06E-04	2.31E-04	2.31E-04	1.27E-04	1.14E-05	1.65E-04	1.03E-04	1.03E-04	5.08E-05
2164	258201.12	4085277.49	1.30E-04	1.89E-03	1.39E-03	1.39E-03	7.75E-04	1.98E-05	2.87E-04	2.17E-04	2.17E-04	1.19E-04	1.08E-05	1.56E-04	9.66E-05	9.66E-05	4.78E-05
2165	258225.41	4085276.42	1.21E-04	1.76E-03	1.29E-03	1.29E-03	7.22E-04	1.84E-05	2.68E-04	2.02E-04	2.02E-04	1.11E-04	1.00E-05	1.45E-04	8.99E-05	8.99E-05	4.45E-05
2166	258249.69	4085275.34	1.12E-04	1.62E-03	1.19E-03	1.19E-03	6.65E-04	1.70E-05	2.47E-04	1.86E-04	1.86E-04	1.02E-04	9.22E-06	1.33E-04	8.28E-05	8.28E-05	4.10E-05
2167	258273.97	4085274.26	1.02E-04	1.48E-03	1.09E-03	1.09E-03	6.06E-04	1.55E-05	2.25E-04	1.70E-04	1.70E-04	9.33E-05	8.41E-06	1.22E-04	7.55E-05	7.55E-05	3.74E-05
2168	258298.25	4085273.19	9.21E-05	1.33E-03	9.82E-04	9.82E-04	5.47E-04	1.40E-05	2.03E-04	1.53E-04	1.53E-04	8.43E-05	7.59E-06	1.10E-04	6.82E-05	6.82E-05	3.38E-05
2169	258322.53	4085272.11	8.24E-05	1.19E-03	8.78E-04	8.78E-04	4.90E-04	1.25E-05	1.82E-04	1.37E-04	1.37E-04	7.54E-05	6.79E-06	9.82E-05	6.10E-05	6.10E-05	3.02E-05
2170	258346.82	4085271.04	7.31E-05	1.06E-03	7.80E-04	7.80E-04	4.35E-04	1.11E-05	1.61E-04	1.22E-04	1.22E-04	6.69E-05	6.03E-06	8.72E-05	5.42E-05	5.42E-05	2.68E-05
2171	258371.1	4085269.96	6.47E-05	9.36E-04	6.90E-04	6.90E-04	3.85E-04	9.82E-06	1.43E-04	1.08E-04	1.08E-04	5.92E-05	5.33E-06	7.71E-05	4.79E-05	4.79E-05	2.37E-05
2172	257551.38	4085347.87	1.18E-04	1.71E-03	1.26E-03	1.26E-03	7.02E-04	1.79E-05	2.60E-04	1.96E-04	1.96E-04	1.08E-04	9.73E-06	1.41E-04	8.74E-05	8.74E-05	4.33E-05
2173	257510.12	4085332.8	1.16E-04	1.67E-03	1.23E-03	1.23E-03	6.87E-04	1.75E-05	2.55E-04	1.92E-04	1.92E-04	1.06E-04	9.53E-06	1.38E-04	8.56E-05	8.56E-05	4.24E-05
2174	257468.86	4085317.72	1.09E-04	1.57E-03	1.16E-03	1.16E-03	6.47E-04	1.65E-05	2.40E-04	1.81E-04	1.81E-04	9.96E-05	8.97E-06	1.30E-04	8.06E-05	8.06E-05	3.99E-05
2175	257418.42	4085282.7	9.83E-05	1.42E-03	1.05E-03	1.05E-03	5.84E-04	1.49E-05	2.17E-04	1.64E-04	1.64E-04	8.99E-05	8.10E-06	1.17E-04	7.28E-05	7.28E-05	3.60E-05
2176	257400.04	4085242.8	9.41E-05	1.36E-03	1.00E-03	1.00E-03	5.59E-04	1.43E-05	2.07E-04	1.57E-04	1.57E-04	8.61E-05	7.76E-06	1.12E-04	6.97E-05	6.97E-05	3.45E-05
2177	257381.67	4085202.9	8.19E-05	1.18E-03	8.73E-04	8.73E-04	4.87E-04	1.24E-05	1.80E-04	1.36E-04	1.36E-04	7.49E-05	6.75E-06	9.76E-05	6.06E-05	6.06E-05	3.00E-05
2178	257596.29	4085354.33	1.22E-04	1.77E-03	1.30E-03	1.30E-03	7.27E-04	1.86E-05	2.70E-04	2.04E-04	2.04E-04	1.12E-04	1.01E-05	1.46E-04	9.06E-05	9.06E-05	4.49E-05
2179	257620.57	4085353.25	1.26E-04	1.82E-03	1.35E-03	1.35E-03	7.50E-04	1.91E-05	2.78E-04	2.10E-04	2.10E-04	1.15E-04	1.04E-05	1.50E-04	9.34E-05	9.34E-05	4.62E-05
2180	257644.85	4085352.18	1.29E-04	1.87E-03	1.38E-03	1.38E-03	7.68E-04	1.96E-05	2.85E-04	2.15E-04	2.15E-04	1.18E-04	1.07E-05	1.54E-04	9.57E-05	9.57E-05	4.74E-05
2181	257669.14	4085351.1	1.32E-04	1.91E-03	1.41E-03	1.41E-03	7.84E-04	2.00E-05	2.91E-04	2.20E-04	2.20E-04	1.21E-04	1.09E-05	1.57E-04	9.77E-05	9.77E-05	4.84E-05
2182	257693.42	4085350.03	1.34E-04	1.94E-03	1.43E-03	1.43E-03	7.97E-04	2.03E-05	2.95E-04	2.23E-04	2.23E-04	1.23E-04	1.10E-05	1.60E-04	9.93E-05	9.93E-05	4.91E-05
2183	257717.7	4085348.95	1.36E-04	1.96E-03	1.45E-03	1.45E-03	8.07E-04	2.06E-05	2.99E-04	2.26E-04	2.26E-04	1.24E-04	1.12E-05	1.62E-04	1.01E-04	1.01E-04	4.98E-05
2184	257741.98	4085347.88	1.37E-04	1.98E-03	1.46E-03	1.46E-03	8.12E-04	2.07E-05	3.01E-04	2.27E-04	2.27E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.01E-05
2185	257766.26	4085346.8	1.37E-04	1.98E-03	1.46E-03	1.46E-03	8.13E-04	2.08E-05	3.01E-04	2.28E-04	2.28E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.01E-05
2186	257790.55	4085345.73	1.37E-04	1.98E-03	1.46E-03	1.46E-03	8.14E-04	2.08E-05	3.02E-04	2.28E-04	2.28E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.02E-05
2187	257814.83	4085344.65	1.37E-04	1.98E-03	1.46E-03	1.46E-03	8.14E-04	2.08E-05	3.02E-04	2.28E-04	2.28E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.02E-05
2188	257839.11	4085343.57	1.37E-04	1.98E-03	1.46E-03	1.46E-03	8.12E-04	2.07E-05	3.01E-04	2.27E-04	2.27E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.01E-05
2189	257863.39	4085342.5	1.36E-04	1.96E-03	1.45E-03	1.45E-03	8.07E-04	2.06E-05	2.99E-04	2.26E-04	2.26E-04	1.24E-04	1.12E-05	1.62E-04	1.01E-04	1.01E-04	4.98E-05
2190	257887.67	4085341.42	1.35E-04	1.95E-03	1.44E-03	1.44E-03	8.01E-04	2.04E-05	2.97E-04	2.24E-04	2.24E-04	1.23E-04	1.11E-05	1.61E-04	9.98E-05	9.98E-05	4.94E-05
2191	257911.95	4085340.35	1.33E-04	1.93E-03	1.42E-03	1.42E-03	7.92E-04	2.02E-05	2.94E-04	2.22E-04	2.22E-04	1.22E-04	1.10E-05	1.59E-04	9.87E-05	9.87E-05	4.89E-05
2192	257936.24	4085339.27	1.32E-04	1.90E-03	1.40E-03	1.40E-03	7.82E-04	2.00E-05	2.90E-04	2.19E-04	2.19E-04	1.20E-04	1.08E-05	1.57E-04	9.74E-05	9.74E-05	4.82E-05
2193	257960.52	4085338.2	1.30E-04	1.87E-03	1.38E-03	1.38E-03	7.70E-04	1.97E-05	2.85E-04	2.16E-04	2.16E-04	1.19E-04	1.07E-05	1.54E-04	9.59E-05	9.59E-05	4.75E-05
2194	257984.8	4085337.12	1.27E-04	1.84E-03	1.36E-03	1.36E-03	7.56E-04	1.93E-05	2.80E-04	2.12E-04	2.12E-04	1.16E-04	1.05E-05	1.52E-04	9.42E-05	9.42E-05	4.66E-05
2195	258009.08	4085336.05	1.24E-04	1.80E-03	1.33E-03	1.33E-03	7.40E-04	1.89E-05	2.74E-04	2.07E-04	2.07E-04	1.14E-04	1.03E-05	1.48E-04	9.22E-05	9.22E-05	4.56E-05
2196	258033.36	4085334.97	1.21E-04	1.76E-03	1.29E-03	1.29E-03	7.22E-04	1.84E-05	2.68E-04	2.02E-04	2.02E-04	1.11E-04	1.00E-05	1.45E-04	8.99E-05	8.99E-05	4.45E-05
2197	258057.65	4085333.9	1.18E-04	1.71E-03	1.26E-03	1.26E-03	7.02E-04	1.79E-05	2.60E-04	1.97E-04	1.97E-04	1.08E-04	9.73E-06	1.41E-04	8.74E-05	8.74E-05	4.33E-05
2198	258081.93	4085332.82	1.14E-04	1.65E-03	1.22E-03	1.22E-03	6.80E-04	1.74E-05	2.52E-04	1.90E-04	1.90E-04	1.05E-04	9.42E-06	1.36E-04	8.47E-05	8.47E-05	4.19E-05
2199	258106.21	4085331.74	1.10E-04	1.59E-03	1.17E-03	1.17E-03	6.55E-04	1.67E-05	2.43E-04	1.83E-04	1.83E-04	1.01E-04	9.08E-06	1.31E-04	8.16E-05	8.16E-05	4.04E-05
2200	258130.49	4085330.67	1.06E-04	1.53E-03	1.13E-03	1.13E-03	6.28E-04	1.60E-05	2.33E-04	1.76E-04	1.76E-04	9.67E-05	8.71E-06	1.26E-04	7.82E-05	7.82E-05	3.87E-05
2201	258154.77	4085329.59	1.01E-04	1.46E-03	1.07E-03	1.07E-03	5.98E-04	1.53E-05	2.22E-04	1.68E-04	1.68E-04	9.21E-05	8.30E-06	1.20E-04	7.45E-05	7.45E-05	3.69E-05

2202	258179.05	4085328.52	9.52E-05	1.38E-03	1.02E-03	1.02E-03	5.66E-04	1.45E-05	2.10E-04	1.58E-04	1.58E-04	8.71E-05	7.85E-06	1.14E-04	7.05E-05	7.05E-05	3.49E-05
2203	258203.34	4085327.44	8.94E-05	1.29E-03	9.53E-04	9.53E-04	5.31E-04	1.36E-05	1.97E-04	1.49E-04	1.49E-04	8.18E-05	7.37E-06	1.07E-04	6.62E-05	6.62E-05	3.28E-05
2204	258227.62	4085326.37	8.33E-05	1.21E-03	8.88E-04	8.88E-04	4.95E-04	1.26E-05	1.84E-04	1.39E-04	1.39E-04	7.63E-05	6.87E-06	9.93E-05	6.17E-05	6.17E-05	3.05E-05
2205	258251.9	4085325.29	7.72E-05	1.12E-03	8.23E-04	8.23E-04	4.59E-04	1.17E-05	1.70E-04	1.28E-04	1.28E-04	7.06E-05	6.36E-06	9.20E-05	5.72E-05	5.72E-05	2.83E-05
2206	258276.18	4085324.22	7.11E-05	1.03E-03	7.58E-04	7.58E-04	4.22E-04	1.08E-05	1.57E-04	1.18E-04	1.18E-04	6.50E-05	5.86E-06	8.47E-05	5.26E-05	5.26E-05	2.61E-05
2207	258300.46	4085323.14	6.51E-05	9.41E-04	6.94E-04	6.94E-04	3.87E-04	9.88E-06	1.43E-04	1.08E-04	1.08E-04	5.95E-05	5.36E-06	7.76E-05	4.82E-05	4.82E-05	2.39E-05
2208	258324.75	4085322.07	5.92E-05	8.56E-04	6.31E-04	6.31E-04	3.52E-04	8.98E-06	1.30E-04	9.85E-05	9.85E-05	5.41E-05	4.88E-06	7.05E-05	4.38E-05	4.38E-05	2.17E-05
2209	258349.03	4085320.99	5.35E-05	7.74E-04	5.71E-04	5.71E-04	3.18E-04	8.13E-06	1.18E-04	8.91E-05	8.91E-05	4.90E-05	4.41E-06	6.38E-05	3.97E-05	3.97E-05	1.96E-05
2210	258373.31	4085319.91	4.84E-05	7.00E-04	5.16E-04	5.16E-04	2.88E-04	7.34E-06	1.07E-04	8.05E-05	8.05E-05	4.43E-05	3.99E-06	5.77E-05	3.58E-05	3.58E-05	1.77E-05
2211	257551.66	4085397.11	9.48E-05	1.37E-03	1.01E-03	1.01E-03	5.63E-04	1.44E-05	2.09E-04	1.58E-04	1.58E-04	8.67E-05	7.81E-06	1.13E-04	7.02E-05	7.02E-05	3.47E-05
2212	257529.09	4085388.87	9.48E-05	1.37E-03	1.01E-03	1.01E-03	5.63E-04	1.44E-05	2.09E-04	1.58E-04	1.58E-04	8.67E-05	7.81E-06	1.13E-04	7.02E-05	7.02E-05	3.47E-05
2213	257506.53	4085380.63	9.40E-05	1.36E-03	1.00E-03	1.00E-03	5.59E-04	1.43E-05	2.07E-04	1.57E-04	1.57E-04	8.61E-05	7.75E-06	1.12E-04	6.96E-05	6.96E-05	3.45E-05
2214	257483.97	4085372.38	9.26E-05	1.34E-03	9.87E-04	9.87E-04	5.50E-04	1.41E-05	2.04E-04	1.54E-04	1.54E-04	8.47E-05	7.63E-06	1.10E-04	6.86E-05	6.86E-05	3.39E-05
2215	257461.4	4085364.14	9.03E-05	1.31E-03	9.63E-04	9.63E-04	5.37E-04	1.37E-05	1.99E-04	1.50E-04	1.50E-04	8.26E-05	7.44E-06	1.08E-04	6.69E-05	6.69E-05	3.31E-05
2216	257438.84	4085355.9	8.71E-05	1.26E-03	9.28E-04	9.28E-04	5.18E-04	1.32E-05	1.92E-04	1.45E-04	1.45E-04	7.97E-05	7.18E-06	1.04E-04	6.45E-05	6.45E-05	3.19E-05
2217	257416.28	4085347.66	8.30E-05	1.20E-03	8.85E-04	8.85E-04	4.93E-04	1.26E-05	1.83E-04	1.38E-04	1.38E-04	7.59E-05	6.84E-06	9.89E-05	6.15E-05	6.15E-05	3.04E-05
2218	257383.67	4085317.59	7.87E-05	1.14E-03	8.39E-04	8.39E-04	4.68E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.20E-05	6.49E-06	9.38E-05	5.83E-05	5.83E-05	2.88E-05
2219	257373.62	4085295.77	7.79E-05	1.13E-03	8.30E-04	8.30E-04	4.63E-04	1.18E-05	1.72E-04	1.30E-04	1.30E-04	7.13E-05	6.42E-06	9.28E-05	5.77E-05	5.77E-05	2.85E-05
2220	257363.57	4085273.96	7.55E-05	1.09E-03	8.05E-04	8.05E-04	4.49E-04	1.15E-05	1.66E-04	1.26E-04	1.26E-04	6.91E-05	6.23E-06	9.00E-05	5.59E-05	5.59E-05	2.77E-05
2221	257353.52	4085252.14	7.15E-05	1.03E-03	7.62E-04	7.62E-04	4.25E-04	1.09E-05	1.58E-04	1.19E-04	1.19E-04	6.54E-05	5.89E-06	8.53E-05	5.30E-05	5.30E-05	2.62E-05
2222	257343.47	4085230.32	6.61E-05	9.56E-04	7.05E-04	7.05E-04	3.93E-04	1.00E-05	1.46E-04	1.10E-04	1.10E-04	6.05E-05	5.45E-06	7.88E-05	4.90E-05	4.90E-05	2.42E-05
2223	257333.43	4085208.5	5.98E-05	8.66E-04	6.38E-04	6.38E-04	3.56E-04	9.08E-06	1.32E-04	9.96E-05	9.96E-05	5.48E-05	4.93E-06	7.13E-05	4.43E-05	4.43E-05	2.19E-05
2224	257323.38	4085186.68	5.33E-05	7.71E-04	5.68E-04	5.68E-04	3.17E-04	8.09E-06	1.17E-04	8.87E-05	8.87E-05	4.88E-05	4.39E-06	6.35E-05	3.95E-05	3.95E-05	1.95E-05
2225	257574.22	4085405.36	9.41E-05	1.36E-03	1.00E-03	1.00E-03	5.59E-04	1.43E-05	2.07E-04	1.57E-04	1.57E-04	8.61E-05	7.76E-06	1.12E-04	6.97E-05	6.97E-05	3.45E-05
2226	257598.5	4085404.28	9.69E-05	1.40E-03	1.03E-03	1.03E-03	5.76E-04	1.47E-05	2.13E-04	1.61E-04	1.61E-04	8.86E-05	7.98E-06	1.15E-04	7.17E-05	7.17E-05	3.55E-05
2227	257622.79	4085403.2	9.92E-05	1.43E-03	1.06E-03	1.06E-03	5.89E-04	1.50E-05	2.18E-04	1.65E-04	1.65E-04	9.07E-05	8.17E-06	1.18E-04	7.34E-05	7.34E-05	3.63E-05
2228	257647.07	4085402.13	1.01E-04	1.46E-03	1.08E-03	1.08E-03	6.00E-04	1.53E-05	2.22E-04	1.68E-04	1.68E-04	9.24E-05	8.32E-06	1.20E-04	7.48E-05	7.48E-05	3.70E-05
2229	257671.35	4085401.05	1.02E-04	1.48E-03	1.09E-03	1.09E-03	6.09E-04	1.55E-05	2.26E-04	1.70E-04	1.70E-04	9.37E-05	8.44E-06	1.22E-04	7.59E-05	7.59E-05	3.75E-05
2230	257695.63	4085399.98	1.03E-04	1.50E-03	1.10E-03	1.10E-03	6.15E-04	1.57E-05	2.28E-04	1.72E-04	1.72E-04	9.47E-05	8.53E-06	1.23E-04	7.66E-05	7.66E-05	3.79E-05
2231	257719.91	4085398.9	1.04E-04	1.50E-03	1.11E-03	1.11E-03	6.17E-04	1.57E-05	2.29E-04	1.73E-04	1.73E-04	9.50E-05	8.55E-06	1.24E-04	7.68E-05	7.68E-05	3.80E-05
2232	257744.19	4085397.83	1.04E-04	1.51E-03	1.11E-03	1.11E-03	6.20E-04	1.58E-05	2.30E-04	1.74E-04	1.74E-04	9.55E-05	8.60E-06	1.24E-04	7.73E-05	7.73E-05	3.82E-05
2233	257768.48	4085396.75	1.05E-04	1.51E-03	1.11E-03	1.11E-03	6.22E-04	1.59E-05	2.30E-04	1.74E-04	1.74E-04	9.57E-05	8.62E-06	1.25E-04	7.74E-05	7.74E-05	3.83E-05
2234	257792.76	4085395.68	1.05E-04	1.51E-03	1.11E-03	1.11E-03	6.21E-04	1.59E-05	2.30E-04	1.74E-04	1.74E-04	9.56E-05	8.61E-06	1.25E-04	7.74E-05	7.74E-05	3.83E-05
2235	257817.04	4085394.6	1.04E-04	1.51E-03	1.11E-03	1.11E-03	6.19E-04	1.58E-05	2.29E-04	1.73E-04	1.73E-04	9.53E-05	8.58E-06	1.24E-04	7.71E-05	7.71E-05	3.82E-05
2236	257841.32	4085393.53	1.03E-04	1.50E-03	1.10E-03	1.10E-03	6.15E-04	1.57E-05	2.28E-04	1.72E-04	1.72E-04	9.47E-05	8.53E-06	1.23E-04	7.66E-05	7.66E-05	3.79E-05
2237	257865.6	4085392.45	1.03E-04	1.48E-03	1.09E-03	1.09E-03	6.09E-04	1.56E-05	2.26E-04	1.71E-04	1.71E-04	9.38E-05	8.45E-06	1.22E-04	7.59E-05	7.59E-05	3.76E-05
2238	257889.89	4085391.37	1.01E-04	1.47E-03	1.08E-03	1.08E-03	6.03E-04	1.54E-05	2.23E-04	1.69E-04	1.69E-04	9.28E-05	8.36E-06	1.21E-04	7.51E-05	7.51E-05	3.72E-05
2239	257914.17	4085390.3	1.00E-04	1.45E-03	1.07E-03	1.07E-03	5.94E-04	1.52E-05	2.20E-04	1.66E-04	1.66E-04	9.15E-05	8.24E-06	1.19E-04	7.40E-05	7.40E-05	3.66E-05
2240	257938.45	4085389.22	9.83E-05	1.42E-03	1.05E-03	1.05E-03	5.84E-04	1.49E-05	2.17E-04	1.64E-04	1.64E-04	9.00E-05	8.11E-06	1.17E-04	7.28E-05	7.28E-05	3.60E-05
2241	257962.73	4085388.15	9.65E-05	1.40E-03	1.03E-03	1.03E-03	5.74E-04	1.46E-05	2.13E-04	1.61E-04	1.61E-04	8.83E-05	7.95E-06	1.15E-04	7.15E-05	7.15E-05	3.54E-05
2242	257987.01	4085387.07	9.44E-05	1.37E-03	1.01E-03	1.01E-03	5.61E-04	1.43E-05	2.08E-04	1.57E-04	1.57E-04	8.64E-05	7.78E-06	1.13E-04	6.99E-05	6.99E-05	3.46E-05
2243	258011.29	4085386	9.22E-05	1.33E-03	9.82E-04	9.82E-04	5.48E-04	1.40E-05	2.03E-04	1.53E-04	1.53E-04	8.43E-05	7.60E-06	1.10E-04	6.82E-05	6.82E-05	3.38E-05
2244	258035.58	4085384.92	8.97E-05	1.30E-03	9.56E-04	9.56E-04	5.33E-04	1.36E-05	1.98E-04	1.49E-04	1.49E-04	8.20E-05	7.39E-06	1.07E-04	6.64E-05	6.64E-05	3.29E-05
2245	258059.86	4085383.85	8.69E-05	1.26E-03	9.27E-04	9.27E-04	5.17E-04	1.32E-05	1.91E-04	1.45E-04	1.45E-04	7.95E-05	7.16E-06	1.04E-04	6.44E-05	6.44E-05	3.19E-05
2246	258084.14	4085382.77	8.39E-05	1.21E-03	8.95E-04	8.95E-04	4.99E-04	1.27E-05	1.85E-04	1.40E-04	1.40E-04	7.68E-05	6.92E-06	1.00E-04	6.22E-05	6.22E-05	3.08E-05
2247	258108.42	4085381.7	8.07E-05	1.17E-03	8.60E-04	8.60E-04	4.79E-04	1.22E-05	1.78E-04	1.34E-04	1.34E-04	7.38E-05	6.65E-06	9.62E-05	5.97E-05	5.97E-05	2.96E-05
2248	258132.7	4085380.62	7.71E-05	1.12E-03	8.22E-04	8.22E-04	4.58E-04	1.17E-05	1.70E-04	1.28E-04	1.28E-04	7.06E-05	6.36E-06	9.19E-05	5.71E-05	5.71E-05	2.83E-05
2249	258156.99	4085379.54	7.33E-05	1.06E-03	7.81E-04	7.81E-04	4.36E-04	1.11E-05	1.62E-04	1.22E-04	1.22E-04	6.71E-05	6.04E-06	8.74E-05	5.43E-05	5.43E-05	2.69E-05
2250	258181.27	4085378.47	6.93E-05	1.00E-03	7.39E-04	7.39E-04	4.12E-04	1.05E-05	1.53E-04	1.15E-04	1.15E-04	6.34E-05	5.71E-06	8.26E-05	5.13E-05	5.13E-05	2.54E-05
2251	258205.55	4085377.39	6.52E-05	9.42E-04	6.95E-04	6.95E-04	3.87E-04	9.89E-06	1.44E-04	1.08E-04	1.08E-04	5.96E-05	5.37E-06	7.77E-05	4.83E-05	4.83E-05	2.39E-05
2252	258229.83	4085376.32	6.10E-05	8.83E-04	6.51E-04	6.51E-04	3.63E-04	9.26E-06	1.34E-04	1.02E-04	1.02E-04	5.58E-05	5.03E-06	7.28E-05	4.52E-05	4.52E-05	2.24E-05
2253	258254.11	4085375.24	5.70E-05	8.24E-04	6.07E-04	6.07E-04	3.38E-04	8.64E-06	1.25E-04	9.48E-05	9.48E-05	5.21E-05	4.69E-06	6.79E-05	4.22E-05	4.22E-05	2.09E-05
2254	258278.39	4085374.17	5.29E-05	7.66E-04	5.64E-04	5.64E-04	3.15E-04	8.03E-06	1.17E-04	8.81E-05	8.81E-05	4.84E-05	4.36E-06	6.31E-05	3.92E-05	3.92E-05	1.94E-05
2255	258302.68	4085373.09	4.89E-05	7.08E-04	5.22E-04	5.22E-04	2.91E-04	7.43E-06	1.08E-04	8.15E-05	8.15E-05	4.48E-05	4.03E-06	5.84E-05	3.62E-05	3.62E-05	1.79E-05
2256	258326.96	4085372.02	4.50E-05	6.51E-04	4.80E-04	4.80E-04	2.68E-04	6.84E-06	9.92E-05	7.50E-05	7.50E-05	4.12E-05	3.71E-06	5.37E-05	3.34E-05	3.34E-05	1.65E-05
2257	258351.24	4085370.94	4.13E-05	5.98E-04	4.41E-04	4.41E-04	2.46E-04	6.27E-06	9.11E-05	6.88E-05	6.88E-05	3.78E-05	3.41E-06	4.93E-05	3.06E-05	3.06E-05	1.51E-05
2258	258375.52	4085369.87	3.79E-05	5.48E-04	4.04E-04	4.04E-04	2.25E-04	5.75E-06	8.35E-05	6.31E-05	6.31E-05	3.47E-05	3.12E-06	4.52E-05	2.81E-05	2.81E-05	1.39E-05
2259	257554.77	4085447.39	7.77E-05	1.12E-03	8.28E-04	8.28E-04	4.62E-04	1.18E-05	1.71E-04	1.29E-04	1.29E-04	7.11E-05	6.41E-06	9.27E-05	5.76E-05	5.76E-05	2.85E-05
2260	257533.11	4085439.48	7.82E-05	1.13E-03	8.33E-04	8.33E-04	4.65E-04	1.19E-05	1.72E-04	1.30E-04	1.30E-04	7.15E-05	6.44E-06	9.32E-05	5.79E-05	5.79E-05	2.87E-05
2261	257511.45	4085431.57	7.82E-05	1.13E-03	8.34E-04	8.34E-04	4.65E-04	1.19E-05	1.72E-04	1.30E-04	1.30E-04	7.16E-05	6.45E-06	9.33E-05	5.79E-05	5.79E-05	2.87E-05
2262	257489.79	4085423.65	7.78E-05	1.13E-03	8.30E-04	8.30E-04	4.63E-04	1.18E-05	1.72E-04	1.30E-04	1.30E-04	7.12E-05	6.42E-06	9.28E-05	5.77E-05	5.77E-05	2.85E-05
2263	257468.13	4085415.74	7.70E-05	1.11E-03	8.21E-04	8.21E-04	4.58E-04	1.17E-05	1.70E-04	1.28E-04	1.28E-04	7.05E-05	6.35E-06	9.18E-05	5.70E-05	5.70E-05	2.82E-05
2264	257446.47	4085407.83	7.57E-05	1.09E-03	8.07E-04	8.07E-04	4.50E-04	1.15E-05	1.67E-04	1.26E-04	1.26E-04	6.93E-05	6.24E-06	9.03E-05	5.61E-05	5.61E-05	2.77E-05
2265	257424.81	4085399.92	7.38E-05	1.07E-03	7.86E-04	7.86E-04	4.38E-04	1.12E-05	1.63E-04	1.23E-04	1.23E-04	6.75E-05	6.08E-06	8.79E-05	5.46E-05	5.46E-05	2.70E-05
2266	257403.15	4085392	7.12E-05	1.03E-03	7.59E-04	7.59E-04	4.23E-04	1.08E-05	1.57E-04	1.19E-04	1.19E-04	6.52E-05	5.87E-06	8.49E-05	5.28E-05	5.28E-05	2.61E-05
2267	257381.48	4085384.09	6.82E-05	9.87E-04	7.28E-04	7.28E-04	4.06E-04	1.04E-05	1.50E-04	1.14E-04	1.14E-04	6.25E-05	5.63E-06	8.14E-05	5.05E-05	5.05E-05	2.50E-05
2268	257350.18	4085355.23	6.52E-05	9.43E-04	6.95E-04	6.95E-04	3.88E-04	9.90E-06	1.44E-04	1.09E-04	1.09E-04	5.97E-05	5.38E-06	7.78E-05	4.83E-05	4.83E-05	2.39E-05
2269	257340.53	4085334.28	6.48E-05	9.37E-04	6.91E-04	6.91E-04	3.85E-04	9.83E-06	1.43E-04	1.08E-04	1.08E-04	5.93E-05	5.34E-06	7.73E-05	4.80E-05	4.80E-05	2.38E-05
2270	257330.89	4085313.34	6.35E-05	9.18E-04	6.77E-04	6.77E-04	3.77E-04	9.64E-06	1.40E-04	1.06E-04	1.06E-04	5.81E-05	5.23E-06	7.57E-05	4.70E-05	4.70E-05	2.33E-05
2271	257321.24	4085292.39	6.12E-05	8.85E-04	6.52E-04	6.52E-04	3.63E-04	9.28E-06	1.35E-04	1.02E-04	1.02E-04	5.60E-05	5.04E-06	7.29E-05	4.53E-05	4.53E-05	2.24E-05
2272	257311.59	4085271.44	5.78E-05	8.36E-04	6.16E-04	6.16E-04	3.43E-04	8.77E-06	1.27E-04	9.62E-05	9.62E-05	5.29E-05	4.76E-06	6.89E-05	4.28E-05	4.28E-05	2.12E-05
2273	257301.95	4085250.5	5.36E-05	7.75E-04	5.71E-04	5.71E-04	3.19E-04	8.13E-06	1.18E-04	8.92E-05	8.92E-05	4.90E-05	4.42E-06	6.39E-05	3.97E-05	3.97E-05	1.96E-05
2274	257292.3	4085229.55	4.89E-05	7.07E-04	5.21E-04	5.21E-04	2.90E-04	7.42E-06	1.08E-04	8.14E-05	8.14E-05	4.47E-05	4.03E-06	5.83E-05	3.62E-05	3.62E-05	1.79E-05
2275	257282.66	4085208.6	4.40E-05	6.37E-04	4.69E-04	4.69E-04	2.62E-04	6.68E-06	9.70E-05	7.33E-05	7.33E-05	4.03E-05	3.63E-06	5.25E-05	3.26E-05	3.26E-05	1.61E-05
2276	257273.01	4085187.65	3.93E-05	5.68E-04	4.19E-04	4.19E-04	2.34E-04	5.96E-06	8.66E-05	6.54E-05	6.54E-05	3.60E-05	3.24E-06	4.68E-05	2.91E-05	2.91E-05	1.44E-05
2277	257576.43	4085455.31	7.69E-05	1.11E-03	8.19E-04	8.19E-04	4.57E-04	1.17E-05	1.69E-04	1.28E-04	1.28E-04	7.03E-05	6.34E-06	9.16E-05	5.69E-05	5.69E-05	2.82E-05
2278	257600.72	4085454.23	7.85E-05	1.14E-03	8.37E-04	8.37E-04	4.67E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.19E-05	6.47E-06	9.36E-05	5.82E-05	5.82E-05	2.88E-05
2279	257625	4085453.16	7.99E-05	1.16E-03	8.52E-04	8.52E-04	4.75E-04	1.21E-05	1.76E-04	1.33E-04	1.33E-04	7.31E-05	6.59E-06	9.52E-05	5.92E-05	5.92E-05	2.93E-05
2280	257649.28	4085452.08	8.09E-05	1.17E-03	8.63E-04	8.63E-04	4.81E-04	1.23E-05	1.78E-04	1.35E-04	1.35E-04	7.41E-05	6.67E-06	9.65E-05	5.99E-05	5.99E-05	2.97E-05
2281	257673.56	4085451	8.14E-05	1.18E-03	8.67E-04	8.67E-04	4.84E-04	1.23E-05	1.79E-04	1.35E-04	1.35E-04	7.45E-05	6.71E-06	9.70E-05	6.03E-05	6.03E-05	2.98E-05
2282	257697.84	4085449.93	8.17E-05	1.18E-03	8.71E-04	8.71E-04	4.86E-04	1.24E-05	1.80E-04	1.36E-04	1.36E-04	7.48E-05	6.74E-06	9.74E-05	6.05E-05	6.05E-05	3.00E-05
2283	257722.13	4085448.85	8.20E-05	1.19E-03	8.75E-04	8.75E-04	4.88E-04	1.25E-05	1.81E-04	1.37E-04	1.37E-04	7.51E-05	6.76E-06	9.78E-05	6.08E-05	6.08E-05	3.01E-05
2284	257746.41	4085447.78	8.22E-05	1.19E-03	8.76E-04	8.76E-04	4.88E-04	1.25E-05	1.81E-04	1.37E-04	1.37E-04	7.52E-05	6.77E-06	9.80E-05	6.09E-05	6.09E-05	3.01E-05
2285	257770.69	4085446.7	8.21E-05	1.19E-03	8.76E-04	8.76E-04	4.88E-04	1.25E-05	1.81E-04	1.37E-04	1.37E-04	7.52E-05	6.77E-06	9.79E-05	6.08E-05	6.08E-05	3.01E-05
2286	257794.97	4085445.63	8.19E-05	1.18E-03	8.73E-04	8.73E-04	4.87E-04	1.24E-05	1.80E-04	1.36E-04	1.36E-04	7.49E-05	6.75E-06	9.76E-05	6.06E-05	6.06E-05	3.00E-05
2287	257819.25	4085444.55	8.14E-05	1.18E-03	8.67E-04	8.67E-04	4.84E-04	1.23E-05	1.79E-04	1.35E-04	1.35E-04	7.45E-05	6.71E-06	9.70E-05	6.03E-05	6.03E-05	2.98E-05
2288	257843.53	4085443.48	8.07E-05	1.17E-03	8.60E-04	8.60E-04	4.79E-04	1.22E-05	1.78E-04	1.34E-04	1.34E-04	7.38E-05	6.65E-06	9.62E-05	5.97E-05	5.97E-05	2.96E-05
2289	257867.82	4085442.4	7.98E-05	1.15E-03	8.50E-04	8.50E-04	4.74E-04	1.21E-05	1.76E-04	1.33E-04	1.33E-04	7.30E-05	6.57E-06	9.51E-05	5.91E-05	5.91E-05	2.92E-05
2290	257892.1	4085441.33	7.87E-05	1.14E-03	8.39E-04	8.39E-04	4.68E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.20E-05	6.48E-06	9.38E-05	5.83E-05	5.83E-05	2.88E-05
2291	257916.38	4085440.25	7.74E-05	1.12E-03	8.25E-04	8.25E-04	4.60E-04	1.17E-05	1.71E-04	1.29E-04	1.29E-04	7.08E-05	6.38E-06	9.23E-05	5.73E-05	5.73E-05	2.84E-05
2292	257940.66	4085439.17	7.60E-05	1.10E-03	8.10E-04	8.10E-04	4.52E-04	1.15E-05	1.67E-04	1.27E-04	1.27E-04	6.96E-05	6.27E-06	9.06E-05	5.63E-05	5.63E-05	2.79E-05
2293	257964.94	4085438.1	7.44E-05	1.08E-03	7.93E-04	7.93E-04	4.42E-04	1.13E-05	1.64E-04	1.24E-04	1.24E-04	6.81E-05	6.14E-06	8.87E-05	5.51E-05	5.51E-05	2.73E-05
2294	257989.23	4085437.02	7.27E-05	1.05E-03	7.75E-04	7.75E-04	4.32E-04	1.10E-05	1.60E-04	1.21E-04	1.21E-04	6.65E-05	5.99E-06	8.67E-05	5.38E-05	5.38E-05	2.67E-05
2295	258013.51	4085435.95	7.08E-05	1.02E-03	7.55E-04	7.55E-04	4.21E-04	1.07E-05	1.56E-04	1.18E-04	1.18E-04	6.48E-05	5.84E-06	8.44E-05	5.24E-05	5.24E-05	2.60E-05
2296	258037.79	4085434.87	6.88E-05	9.94E-04	7.33E-04	7.33E-04	4.09E-04	1.04E-05	1.52E-04	1.14E-04	1.14E-04	6.29E-05	5.67E-06	8.20E-05	5.09E-05	5.09E-05	2.52E-05
2297	258062.07	4085433.8	6.65E-05	9.62E-04	7.09E-04	7.09E-04	3.95E-04	1.01E-05	1.47E-04	1.11E-04	1.11E-04	6.09E-05	5.48E-06	7.93E-05	4.93E-05	4.93E-05	2.44E-05
2298	258086.35	4085432.72	6.41E-05	9.27E-04	6.83E-04	6.83E-04	3.81E-04	9.72E-06	1.41E-04	1.07E-04	1.07E-04	5.86E-05	5.28E-06	7.64E-05	4.74E-05	4.74E-05	2.35E-05
2299	258110.63	4085431.65	6.14E-05	8.89E-04	6.55E-04	6.55E-04	3.65E-04	9.32E-06	1.35E-04	1.02E-04	1.02E-04	5.62E-05	5.06E-06	7.32E-05	4.55E-05	4.55E-05	2.25E-05
2300	258134.92	4085430.57	5.86E-05	8.48E-04	6.25E-04	6.25E-04	3.48E-04	8.90E-06	1.29E-04	9.76E-05	9.76E-05	5.37E-05	4.83E-06	6.99E-05	4.34E-05	4.34E-05	2.15E-05
2301	258159.2	4085429.5	5.57E-05	8.06E-04	5.94E-04	5.94E-04	3.31E-04	8.45E-06	1.23E-04	9.27E-05	9.27E-05	5.10E-05	4.59E-06	6.64E-05	4.13E-05	4.13E-05	2.04E-05
2302	258183.48	4085428.42	5.27E-05	7.63E-04	5.62E-04	5.62E-04	3.13E-04	8.00E-06	1.16E-04	8.78E-05	8.78E-05	4.83E-05	4.35E-06	6.29E-05	3.91E-05	3.91E-05	1.93E-05
2303	258207.76	4085427.34	4.98E-05	7.20E-04	5.31E-04	5.31E-04	2.96E-04	7.56E-06	1.10E-04	8.29E-05	8.29E-05	4.56E-05	4.10E-06	5.94E-05	3.69E-05	3.69E-05	1.83E-05
2304	258232.04	4085426.27	4.69E-05	6.79E-04	5.00E-04	5.00E-04	2.79E-04	7.12E-06	1.03E-04	7.81E-05	7.81E-05	4.29E-05	3.87E-06	5.59E-05	3.47E-05	3.47E-05	1.72E-05
2305	258256.33	4085425.19	4.41E-05	6.37E-04	4.70E-04	4.70E-04	2.62E-04	6.69E-06	9.71E-05	7.34E-05	7.34E-05	4.03E-05	3.63E-06	5.25E-05	3.26E-05	3.26E-05	1.62E-05
2306	258280.61	4085424.12	4.12E-05	5.96E-04	4.40E-04	4.40E-04	2.45E-04	6.26E-06	9.09E-05	6.86E-05	6.86E-05	3.77E-05	3.40E-06	4.92E-05	3.05E-05	3.05E-05	1.51E-05

2307	258304.89	4085423.04	3.84E-05	5.56E-04	4.10E-04	4.10E-04	2.28E-04	5.83E-06	8.47E-05	6.40E-05	6.40E-05	3.52E-05	3.17E-06	4.58E-05	2.85E-05	2.85E-05	1.41E-05
2308	258329.17	4085421.97	3.57E-05	5.16E-04	3.81E-04	3.81E-04	2.12E-04	5.42E-06	7.86E-05	5.94E-05	5.94E-05	3.27E-05	2.94E-06	4.26E-05	2.64E-05	2.64E-05	1.31E-05
2309	258353.45	4085420.89	3.31E-05	4.79E-04	3.53E-04	3.53E-04	1.97E-04	5.02E-06	7.29E-05	5.51E-05	5.51E-05	3.03E-05	2.73E-06	3.94E-05	2.45E-05	2.45E-05	1.21E-05
2310	258377.73	4085419.82	3.07E-05	4.43E-04	3.27E-04	3.27E-04	1.82E-04	4.65E-06	6.75E-05	5.10E-05	5.10E-05	2.81E-05	2.53E-06	3.65E-05	2.27E-05	2.27E-05	1.12E-05
2311	257558.64	4085547.09	5.43E-05	7.85E-04	5.79E-04	5.79E-04	3.23E-04	8.24E-06	1.20E-04	9.04E-05	9.04E-05	4.97E-05	4.48E-06	6.47E-05	4.02E-05	4.02E-05	1.99E-05
2312	257536.43	4085538.98	5.53E-05	8.00E-04	5.90E-04	5.90E-04	3.29E-04	8.39E-06	1.22E-04	9.21E-05	9.21E-05	5.06E-05	4.56E-06	6.59E-05	4.10E-05	4.10E-05	2.03E-05
2313	257514.21	4085530.86	5.59E-05	8.08E-04	5.96E-04	5.96E-04	3.32E-04	8.48E-06	1.23E-04	9.30E-05	9.30E-05	5.11E-05	4.61E-06	6.66E-05	4.14E-05	4.14E-05	2.05E-05
2314	257491.99	4085522.75	5.63E-05	8.14E-04	6.00E-04	6.00E-04	3.34E-04	8.54E-06	1.24E-04	9.36E-05	9.36E-05	5.15E-05	4.64E-06	6.71E-05	4.17E-05	4.17E-05	2.06E-05
2315	257469.78	4085514.63	5.64E-05	8.16E-04	6.01E-04	6.01E-04	3.35E-04	8.56E-06	1.24E-04	9.39E-05	9.39E-05	5.16E-05	4.65E-06	6.73E-05	4.18E-05	4.18E-05	2.07E-05
2316	257447.56	4085506.51	5.64E-05	8.15E-04	6.01E-04	6.01E-04	3.35E-04	8.55E-06	1.24E-04	9.38E-05	9.38E-05	5.16E-05	4.65E-06	6.72E-05	4.17E-05	4.17E-05	2.07E-05
2317	257425.34	4085498.4	5.61E-05	8.11E-04	5.98E-04	5.98E-04	3.33E-04	8.51E-06	1.24E-04	9.33E-05	9.33E-05	5.13E-05	4.62E-06	6.68E-05	4.15E-05	4.15E-05	2.06E-05
2318	257403.13	4085490.28	5.55E-05	8.02E-04	5.91E-04	5.91E-04	3.30E-04	8.42E-06	1.22E-04	9.23E-05	9.23E-05	5.08E-05	4.57E-06	6.61E-05	4.11E-05	4.11E-05	2.03E-05
2319	257380.91	4085482.17	5.45E-05	7.88E-04	5.81E-04	5.81E-04	3.24E-04	8.27E-06	1.20E-04	9.07E-05	9.07E-05	4.99E-05	4.49E-06	6.50E-05	4.04E-05	4.04E-05	2.00E-05
2320	257358.69	4085474.05	5.32E-05	7.69E-04	5.67E-04	5.67E-04	3.16E-04	8.07E-06	1.17E-04	8.85E-05	8.85E-05	4.87E-05	4.38E-06	6.34E-05	3.94E-05	3.94E-05	1.95E-05
2321	257336.48	4085465.93	5.16E-05	7.46E-04	5.50E-04	5.50E-04	3.06E-04	7.83E-06	1.14E-04	8.58E-05	8.58E-05	4.72E-05	4.25E-06	6.15E-05	3.82E-05	3.82E-05	1.89E-05
2322	257314.26	4085457.82	4.98E-05	7.20E-04	5.30E-04	5.30E-04	2.96E-04	7.55E-06	1.10E-04	8.28E-05	8.28E-05	4.55E-05	4.10E-06	5.93E-05	3.69E-05	3.69E-05	1.82E-05
2323	257282.15	4085428.22	4.81E-05	6.95E-04	5.12E-04	5.12E-04	2.86E-04	7.29E-06	1.06E-04	8.00E-05	8.00E-05	4.40E-05	3.96E-06	5.73E-05	3.56E-05	3.56E-05	1.76E-05
2324	257272.26	4085406.73	4.79E-05	6.93E-04	5.11E-04	5.11E-04	2.85E-04	7.27E-06	1.06E-04	7.98E-05	7.98E-05	4.39E-05	3.95E-06	5.71E-05	3.55E-05	3.55E-05	1.76E-05
2325	257262.37	4085385.25	4.73E-05	6.84E-04	5.04E-04	5.04E-04	2.81E-04	7.18E-06	1.04E-04	7.88E-05	7.88E-05	4.33E-05	3.90E-06	5.64E-05	3.50E-05	3.50E-05	1.73E-05
2326	257252.47	4085363.77	4.62E-05	6.68E-04	4.92E-04	4.92E-04	2.74E-04	7.01E-06	1.02E-04	7.69E-05	7.69E-05	4.22E-05	3.81E-06	5.50E-05	3.42E-05	3.42E-05	1.69E-05
2327	257242.58	4085342.28	4.44E-05	6.42E-04	4.73E-04	4.73E-04	2.64E-04	6.74E-06	9.79E-05	7.39E-05	7.39E-05	4.06E-05	3.66E-06	5.30E-05	3.29E-05	3.29E-05	1.63E-05
2328	257232.69	4085320.8	4.21E-05	6.08E-04	4.48E-04	4.48E-04	2.50E-04	6.38E-06	9.27E-05	7.00E-05	7.00E-05	3.85E-05	3.47E-06	5.02E-05	3.12E-05	3.12E-05	1.54E-05
2329	257222.79	4085299.31	3.92E-05	5.67E-04	4.18E-04	4.18E-04	2.33E-04	5.95E-06	8.64E-05	6.53E-05	6.53E-05	3.59E-05	3.23E-06	4.68E-05	2.90E-05	2.90E-05	1.44E-05
2330	257212.9	4085277.83	3.61E-05	5.22E-04	3.84E-04	3.84E-04	2.14E-04	5.47E-06	7.95E-05	6.00E-05	6.00E-05	3.30E-05	2.97E-06	4.30E-05	2.67E-05	2.67E-05	1.32E-05
2331	257203.01	4085256.35	3.28E-05	4.74E-04	3.50E-04	3.50E-04	1.95E-04	4.98E-06	7.22E-05	5.46E-05	5.46E-05	3.00E-05	2.70E-06	3.91E-05	2.43E-05	2.43E-05	1.20E-05
2332	257193.11	4085234.86	2.96E-05	4.28E-04	3.16E-04	3.16E-04	1.76E-04	4.49E-06	6.53E-05	4.93E-05	4.93E-05	2.71E-05	2.44E-06	3.53E-05	2.19E-05	2.19E-05	1.09E-05
2333	257183.22	4085213.38	2.67E-05	3.86E-04	2.84E-04	2.84E-04	1.59E-04	4.05E-06	5.88E-05	4.44E-05	4.44E-05	2.44E-05	2.20E-06	3.18E-05	1.98E-05	1.98E-05	9.78E-06
2334	257173.33	4085191.89	2.41E-05	3.48E-04	2.57E-04	2.57E-04	1.43E-04	3.66E-06	5.31E-05	4.01E-05	4.01E-05	2.20E-05	1.99E-06	2.87E-05	1.78E-05	1.78E-05	8.83E-06
2335	257580.86	4085555.21	5.34E-05	7.72E-04	5.69E-04	5.69E-04	3.17E-04	8.10E-06	1.18E-04	8.88E-05	8.88E-05	4.88E-05	4.40E-06	6.36E-05	3.95E-05	3.95E-05	1.96E-05
2336	257605.14	4085554.13	5.39E-05	7.80E-04	5.75E-04	5.75E-04	3.21E-04	8.19E-06	1.19E-04	8.98E-05	8.98E-05	4.94E-05	4.45E-06	6.43E-05	4.00E-05	4.00E-05	1.98E-05
2337	257629.42	4085553.06	5.44E-05	7.86E-04	5.80E-04	5.80E-04	3.23E-04	8.25E-06	1.20E-04	9.05E-05	9.05E-05	4.98E-05	4.48E-06	6.48E-05	4.03E-05	4.03E-05	1.99E-05
2338	257653.7	4085551.98	5.46E-05	7.90E-04	5.83E-04	5.83E-04	3.25E-04	8.29E-06	1.20E-04	9.10E-05	9.10E-05	5.00E-05	4.50E-06	6.51E-05	4.05E-05	4.05E-05	2.00E-05
2339	257677.99	4085550.91	5.47E-05	7.92E-04	5.84E-04	5.84E-04	3.25E-04	8.31E-06	1.21E-04	9.11E-05	9.11E-05	5.01E-05	4.51E-06	6.53E-05	4.05E-05	4.05E-05	2.01E-05
2340	257702.27	4085549.83	5.47E-05	7.91E-04	5.83E-04	5.83E-04	3.25E-04	8.30E-06	1.21E-04	9.10E-05	9.10E-05	5.01E-05	4.51E-06	6.52E-05	4.05E-05	4.05E-05	2.01E-05
2341	257726.55	4085548.76	5.45E-05	7.89E-04	5.81E-04	5.81E-04	3.24E-04	8.28E-06	1.20E-04	9.08E-05	9.08E-05	4.99E-05	4.50E-06	6.50E-05	4.04E-05	4.04E-05	2.00E-05
2342	257750.83	4085547.68	5.43E-05	7.85E-04	5.79E-04	5.79E-04	3.23E-04	8.24E-06	1.20E-04	9.04E-05	9.04E-05	4.97E-05	4.48E-06	6.47E-05	4.02E-05	4.02E-05	1.99E-05
2343	257775.11	4085546.6	5.40E-05	7.81E-04	5.76E-04	5.76E-04	3.21E-04	8.20E-06	1.19E-04	8.99E-05	8.99E-05	4.94E-05	4.45E-06	6.44E-05	4.00E-05	4.00E-05	1.98E-05
2344	257799.4	4085545.53	5.36E-05	7.76E-04	5.72E-04	5.72E-04	3.19E-04	8.14E-06	1.18E-04	8.93E-05	8.93E-05	4.91E-05	4.42E-06	6.39E-05	3.97E-05	3.97E-05	1.97E-05
2345	257823.68	4085544.45	5.32E-05	7.69E-04	5.67E-04	5.67E-04	3.16E-04	8.07E-06	1.17E-04	8.85E-05	8.85E-05	4.86E-05	4.38E-06	6.34E-05	3.94E-05	3.94E-05	1.95E-05
2346	257847.96	4085543.38	5.26E-05	7.61E-04	5.61E-04	5.61E-04	3.13E-04	7.98E-06	1.16E-04	8.75E-05	8.75E-05	4.81E-05	4.33E-06	6.27E-05	3.89E-05	3.89E-05	1.93E-05
2347	257872.24	4085542.3	5.19E-05	7.51E-04	5.53E-04	5.53E-04	3.08E-04	7.88E-06	1.14E-04	8.64E-05	8.64E-05	4.75E-05	4.28E-06	6.19E-05	3.84E-05	3.84E-05	1.90E-05
2348	257896.52	4085541.23	5.11E-05	7.39E-04	5.45E-04	5.45E-04	3.04E-04	7.76E-06	1.13E-04	8.51E-05	8.51E-05	4.68E-05	4.21E-06	6.09E-05	3.78E-05	3.78E-05	1.87E-05
2349	257920.8	4085540.15	5.02E-05	7.26E-04	5.35E-04	5.35E-04	2.98E-04	7.62E-06	1.11E-04	8.36E-05	8.36E-05	4.59E-05	4.14E-06	5.98E-05	3.72E-05	3.72E-05	1.84E-05
2350	257945.09	4085539.08	4.92E-05	7.11E-04	5.24E-04	5.24E-04	2.92E-04	7.46E-06	1.08E-04	8.19E-05	8.19E-05	4.50E-05	4.05E-06	5.86E-05	3.64E-05	3.64E-05	1.80E-05
2351	257969.37	4085538	4.81E-05	6.95E-04	5.12E-04	5.12E-04	2.86E-04	7.29E-06	1.06E-04	8.00E-05	8.00E-05	4.40E-05	3.96E-06	5.73E-05	3.56E-05	3.56E-05	1.76E-05
2352	257993.65	4085536.93	4.68E-05	6.77E-04	4.99E-04	4.99E-04	2.78E-04	7.10E-06	1.03E-04	7.79E-05	7.79E-05	4.28E-05	3.86E-06	5.58E-05	3.47E-05	3.47E-05	1.72E-05
2353	258017.93	4085535.85	4.55E-05	6.57E-04	4.85E-04	4.85E-04	2.70E-04	6.90E-06	1.00E-04	7.57E-05	7.57E-05	4.16E-05	3.75E-06	5.42E-05	3.37E-05	3.37E-05	1.67E-05
2354	258042.21	4085534.77	4.40E-05	6.36E-04	4.69E-04	4.69E-04	2.61E-04	6.67E-06	9.69E-05	7.32E-05	7.32E-05	4.02E-05	3.62E-06	5.24E-05	3.26E-05	3.26E-05	1.61E-05
2355	258066.5	4085533.7	4.24E-05	6.13E-04	4.52E-04	4.52E-04	2.52E-04	6.43E-06	9.34E-05	7.05E-05	7.05E-05	3.88E-05	3.49E-06	5.05E-05	3.14E-05	3.14E-05	1.55E-05
2356	258090.78	4085532.62	4.07E-05	5.89E-04	4.34E-04	4.34E-04	2.42E-04	6.18E-06	8.97E-05	6.78E-05	6.78E-05	3.73E-05	3.36E-06	4.85E-05	3.02E-05	3.02E-05	1.49E-05
2357	258115.06	4085531.55	3.90E-05	5.64E-04	4.16E-04	4.16E-04	2.32E-04	5.92E-06	8.59E-05	6.49E-05	6.49E-05	3.57E-05	3.21E-06	4.65E-05	2.89E-05	2.89E-05	1.43E-05
2358	258139.34	4085530.47	3.73E-05	5.39E-04	3.97E-04	3.97E-04	2.22E-04	5.66E-06	8.22E-05	6.21E-05	6.21E-05	3.41E-05	3.07E-06	4.44E-05	2.76E-05	2.76E-05	1.37E-05
2359	258163.62	4085529.4	3.56E-05	5.15E-04	3.80E-04	3.80E-04	2.12E-04	5.40E-06	7.84E-05	5.93E-05	5.93E-05	3.26E-05	2.93E-06	4.24E-05	2.64E-05	2.64E-05	1.30E-05
2360	258187.9	4085528.32	3.40E-05	4.91E-04	3.62E-04	3.62E-04	2.02E-04	5.15E-06	7.48E-05	5.65E-05	5.65E-05	3.11E-05	2.80E-06	4.05E-05	2.51E-05	2.51E-05	1.24E-05
2361	258212.19	4085527.25	3.23E-05	4.68E-04	3.45E-04	3.45E-04	1.92E-04	4.91E-06	7.13E-05	5.38E-05	5.38E-05	2.96E-05	2.67E-06	3.86E-05	2.40E-05	2.40E-05	1.19E-05
2362	258236.47	4085526.17	3.07E-05	4.45E-04	3.28E-04	3.28E-04	1.83E-04	4.67E-06	6.77E-05	5.12E-05	5.12E-05	2.81E-05	2.53E-06	3.66E-05	2.28E-05	2.28E-05	1.13E-05
2363	258260.75	4085525.1	2.91E-05	4.21E-04	3.10E-04	3.10E-04	1.73E-04	4.42E-06	6.42E-05	4.85E-05	4.85E-05	2.66E-05	2.40E-06	3.47E-05	2.16E-05	2.16E-05	1.07E-05
2364	258285.03	4085524.02	2.75E-05	3.98E-04	2.93E-04	2.93E-04	1.64E-04	4.18E-06	6.06E-05	4.58E-05	4.58E-05	2.52E-05	2.27E-06	3.28E-05	2.04E-05	2.04E-05	1.01E-05
2365	258309.31	4085522.94	2.59E-05	3.75E-04	2.76E-04	2.76E-04	1.54E-04	3.94E-06	5.71E-05	4.32E-05	4.32E-05	2.37E-05	2.14E-06	3.09E-05	1.92E-05	1.92E-05	9.51E-06
2366	258333.6	4085521.87	2.44E-05	3.53E-04	2.60E-04	2.60E-04	1.45E-04	3.70E-06	5.38E-05	4.06E-05	4.06E-05	2.23E-05	2.01E-06	2.91E-05	1.81E-05	1.81E-05	8.95E-06
2367	258357.88	4085520.79	2.29E-05	3.32E-04	2.45E-04	2.45E-04	1.36E-04	3.48E-06	5.06E-05	3.82E-05	3.82E-05	2.10E-05	1.89E-06	2.74E-05	1.70E-05	1.70E-05	8.41E-06
2368	258382.16	4085519.72	2.16E-05	3.12E-04	2.30E-04	2.30E-04	1.28E-04	3.27E-06	4.75E-05	3.59E-05	3.59E-05	1.97E-05	1.78E-06	2.57E-05	1.60E-05	1.60E-05	7.91E-06
2369	257562.72	4085646.87	3.98E-05	5.76E-04	4.25E-04	4.25E-04	2.37E-04	6.05E-06	8.78E-05	6.63E-05	6.63E-05	3.65E-05	3.28E-06	4.75E-05	2.95E-05	2.95E-05	1.46E-05
2370	257540.16	4085638.63	4.06E-05	5.87E-04	4.32E-04	4.32E-04	2.41E-04	6.16E-06	8.94E-05	6.75E-05	6.75E-05	3.71E-05	3.34E-06	4.84E-05	3.00E-05	3.00E-05	1.49E-05
2371	257517.59	4085630.38	4.12E-05	5.96E-04	4.39E-04	4.39E-04	2.45E-04	6.25E-06	9.08E-05	6.86E-05	6.86E-05	3.77E-05	3.40E-06	4.91E-05	3.05E-05	3.05E-05	1.51E-05
2372	257495.03	4085622.14	4.18E-05	6.04E-04	4.45E-04	4.45E-04	2.48E-04	6.34E-06	9.20E-05	6.95E-05	6.95E-05	3.82E-05	3.44E-06	4.98E-05	3.09E-05	3.09E-05	1.53E-05
2373	257472.47	4085613.9	4.22E-05	6.10E-04	4.50E-04	4.50E-04	2.51E-04	6.40E-06	9.30E-05	7.02E-05	7.02E-05	3.86E-05	3.48E-06	5.03E-05	3.13E-05	3.13E-05	1.55E-05
2374	257449.9	4085605.65	4.25E-05	6.15E-04	4.53E-04	4.53E-04	2.53E-04	6.46E-06	9.37E-05	7.08E-05	7.08E-05	3.89E-05	3.51E-06	5.07E-05	3.15E-05	3.15E-05	1.56E-05
2375	257427.34	4085597.41	4.29E-05	6.21E-04	4.57E-04	4.57E-04	2.55E-04	6.51E-06	9.46E-05	7.14E-05	7.14E-05	3.93E-05	3.54E-06	5.12E-05	3.18E-05	3.18E-05	1.57E-05
2376	257404.77	4085589.17	4.31E-05	6.23E-04	4.59E-04	4.59E-04	2.56E-04	6.53E-06	9.49E-05	7.17E-05	7.17E-05	3.94E-05	3.55E-06	5.13E-05	3.19E-05	3.19E-05	1.58E-05
2377	257382.21	4085580.93	4.30E-05	6.22E-04	4.59E-04	4.59E-04	2.56E-04	6.53E-06	9.48E-05	7.16E-05	7.16E-05	3.94E-05	3.55E-06	5.13E-05	3.19E-05	3.19E-05	1.58E-05
2378	257359.65	4085572.68	4.28E-05	6.19E-04	4.56E-04	4.56E-04	2.54E-04	6.49E-06	9.43E-05	7.12E-05	7.12E-05	3.92E-05	3.53E-06	5.10E-05	3.17E-05	3.17E-05	1.57E-05
2379	257337.08	4085564.44	4.23E-05	6.12E-04	4.51E-04	4.51E-04	2.51E-04	6.42E-06	9.32E-05	7.04E-05	7.04E-05	3.87E-05	3.49E-06	5.04E-05	3.13E-05	3.13E-05	1.55E-05
2380	257314.52	4085556.2	4.16E-05	6.02E-04	4.44E-04	4.44E-04	2.47E-04	6.31E-06	9.17E-05	6.93E-05	6.93E-05	3.81E-05	3.43E-06	4.96E-05	3.08E-05	3.08E-05	1.53E-05
2381	257291.96	4085547.96	4.07E-05	5.89E-04	4.34E-04	4.34E-04	2.42E-04	6.18E-06	8.97E-05	6.78E-05	6.78E-05	3.73E-05	3.36E-06	4.86E-05	3.02E-05	3.02E-05	1.49E-05
2382	257269.39	4085539.71	3.97E-05	5.74E-04	4.23E-04	4.23E-04	2.36E-04	6.03E-06	8.75E-05	6.61E-05	6.61E-05	3.63E-05	3.27E-06	4.73E-05	2.94E-05	2.94E-05	1.46E-05
2383	257246.83	4085531.47	3.86E-05	5.59E-04	4.12E-04	4.12E-04	2.30E-04	5.86E-06	8.51E-05	6.43E-05	6.43E-05	3.53E-05	3.18E-06	4.61E-05	2.86E-05	2.86E-05	1.42E-05
2384	257214.22	4085501.41	3.77E-05	5.46E-04	4.02E-04	4.02E-04	2.24E-04	5.72E-06	8.31E-05	6.28E-05	6.28E-05	3.45E-05	3.11E-06	4.50E-05	2.79E-05	2.79E-05	1.38E-05
2385	257204.17	4085479.59	3.77E-05	5.46E-04	4.02E-04	4.02E-04	2.24E-04	5.73E-06	8.32E-05	6.28E-05	6.28E-05	3.45E-05	3.11E-06	4.50E-05	2.80E-05	2.80E-05	1.38E-05
2386	257194.12	4085457.77	3.75E-05	5.42E-04	4.00E-04	4.00E-04	2.23E-04	5.69E-06	8.26E-05	6.24E-05	6.24E-05	3.43E-05	3.09E-06	4.47E-05	2.78E-05	2.78E-05	1.37E-05
2387	257184.08	4085435.95	3.69E-05	5.34E-04	3.93E-04	3.93E-04	2.19E-04	5.60E-06	8.13E-05	6.14E-05	6.14E-05	3.38E-05	3.04E-06	4.40E-05	2.73E-05	2.73E-05	1.35E-05
2388	257174.03	4085414.13	3.59E-05	5.20E-04	3.83E-04	3.83E-04	2.14E-04	5.45E-06	7.92E-05	5.98E-05	5.98E-05	3.29E-05	2.96E-06	4.28E-05	2.66E-05	2.66E-05	1.32E-05
2389	257163.98	4085392.31	3.46E-05	5.00E-04	3.68E-04	3.68E-04	2.05E-04	5.25E-06	7.62E-05	5.75E-05	5.75E-05	3.16E-05	2.85E-06	4.12E-05	2.56E-05	2.56E-05	1.27E-05
2390	257153.93	4085370.49	3.28E-05	4.75E-04	3.50E-04	3.50E-04	1.95E-04	4.98E-06	7.23E-05	5.46E-05	5.46E-05	3.00E-05	2.70E-06	3.91E-05	2.43E-05	2.43E-05	1.20E-05
2391	257143.88	4085348.67	3.07E-05	4.45E-04	3.28E-04	3.28E-04	1.83E-04	4.67E-06	6.77E-05	5.12E-05	5.12E-05	2.81E-05	2.53E-06	3.67E-05	2.28E-05	2.28E-05	1.13E-05
2392	257133.84	4085326.85	2.85E-05	4.12E-04	3.03E-04	3.03E-04	1.69E-04	4.32E-06	6.27E-05	4.74E-05	4.74E-05	2.60E-05	2.35E-06	3.39E-05	2.11E-05	2.11E-05	1.04E-05
2393	257123.79	4085305.03	2.61E-05	3.78E-04	2.78E-04	2.78E-04	1.55E-04	3.96E-06	5.75E-05	4.34E-05	4.34E-05	2.39E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.57E-06
2394	257113.74	4085283.21	2.38E-05	3.44E-04	2.54E-04	2.54E-04	1.41E-04	3.61E-06	5.24E-05	3.96E-05	3.96E-05	2.18E-05	1.96E-06	2.84E-05	1.76E-05	1.76E-05	8.72E-06
2395	257103.69	4085261.39	2.16E-05	3.13E-04	2.31E-04	2.31E-04	1.29E-04	3.28E-06	4.76E-05	3.60E-05	3.60E-05	1.98E-05	1.78E-06	2.58E-05	1.60E-05	1.60E-05	7.93E-06
2396	257093.65	4085239.57	1.97E-05	2.85E-04	2.10E-04	2.10E-04	1.17E-04	2.99E-06	4.34E-05	3.28E-05	3.28E-05	1.80E-05	1.62E-06	2.35E-05	1.46E-05	1.46E-05	7.22E-06
2397	257083.6	4085217.75	1.80E-05	2.61E-04	1.92E-04	1.92E-04	1.07E-04	2.74E-06	3.97E-05	3.00E-05	3.00E-05	1.65E-05	1.49E-06	2.15E-05	1.33E-05	1.33E-05	6.61E-06
2398	257073.55	4085195.93	1.66E-05	2.41E-04	1.77E-04	1.77E-04	9.89E-05	2.52E-06	3.67E-05	2.77E-05	2.77E-05	1.52E-05	1.37E-06	1.98E-05	1.23E-05	1.23E-05	6.10E-06
2399	257585.28	4085655.11	3.90E-05	5.64E-04	4.16E-04	4.16E-04	2.32E-04	5.92E-06	8.60E-05	6.50E-05	6.50E-05	3.57E-05	3.22E-06	4.65E-05	2.89E-05	2.89E-05	1.43E-05
2400	257609.57	4085654.03	3.92E-05	5.67E-04	4.18E-04	4.18E-04	2.33E-04	5.95E-06	8.64E-05	6.53E-05	6.53E-05	3.59E-05	3.23E-06	4.67E-05	2.90E-05	2.90E-05	1.44E-05
2401	257633.85	4085652.96	3.93E-05	5.68E-04	4.19E-04	4.19E-04	2.34E-04	5.97E-06	8.66E-05	6.54E-05	6.54E-05	3.60E-05	3.24E-06	4.69E-05	2.91E-05	2.91E-05	1.44E-05
2402	257658.13	4085651.88	3.93E-05	5.69E-04	4.19E-04	4.19E-04	2.34E-04	5.97E-06	8.66E-05	6.54E-05	6.54E-05	3.60E-05	3.24E-06	4.69E-05	2.91E-05	2.91E-05	1.44E-05
2403	257682.41	4085650.81	3.92E-05	5.67E-04	4.18E-04	4.18E-04	2.33E-04	5.95E-06	8.64E-05	6.53E-05	6.53E-05	3.59E-05	3.23E-06	4.68E-05	2.91E-05	2.91E-05	1.44E-05
2404	257706.69	4085649.73	3.91E-05	5.65E-04	4.16E-04	4.16E-04	2.32E-04	5.93E-06	8.61E-05	6.50E-05	6.50E-05	3.57E-05	3.22E-06	4.66E-05	2.89E-05	2.89E-05	1.43E-05
2405	257730.97	4085648.66	3.88E-05	5.61E-04	4.14E-04	4.14E-04	2.31E-04	5.89E-06	8.55E-05	6.46E-05	6.46E-05	3.55E-05	3.20E-06	4.63E-05	2.87E-05	2.87E-05	1.42E-05
2406	257755.26	4085647.58	3.85E-05	5.57E-04	4.11E-04	4.11E-04	2.29E-04	5.85E-06	8.49E-05	6.41E-05	6.41E-05	3.52E-05	3.18E-06	4.59E-05	2.85E-05	2.85E-05	1.41E-05
2407	257779.54	4085646.51	3.82E-05	5.52E-04	4.07E-04	4.07E-04	2.27E-04	5.79E-06	8.41E-05	6.35E-05	6.35E-05	3.49E-05	3.15E-06	4.55E-05	2.83E-05	2.83E-05	1.40E-05
2408	257803.82	4085645.43	3.78E-05	5.47E-04	4.03E-04	4.03E-04	2.25E-04	5.74E-06	8.33E-05	6.29E-05	6.29E-05	3.46E-05	3.12E-06	4.51E-05	2.80E-05	2.80E-05	1.39E-05
2409	257828.1	4085644.36	3.74E-05	5.41E-04	3.99E-04	3.99E-04	2.22E-04	5.67E-06	8.24E-05	6.22E-05	6.22E-05	3.42E-05	3.08E-06	4.46E-05	2.77E-05	2.77E-05	1.37E-05
2410	257852.38	4085643.28	3.69E-05	5.34E-04	3.94E-04	3.94E-04	2.20E-04	5.61E-06	8.14E-05	6.15E-05	6.15E-05	3.38E-05	3.04E-06	4.40E-05	2.74E-05	2.74E-05	1.35E-05
2411	257876.67	4085642.2	3.63E-05	5.25E-04	3.87E-04	3.87E-04	2.16E-04	5.51E-06	8.01E-05	6.05E-05	6.05E-05	3.32E-05	2.99E-06	4.33E-05	2.69E-05	2.69E-05	1.33E-05

2412	257900.95	4085641.13	3.57E-05	5.16E-04	3.80E-04	3.80E-04	2.12E-04	5.42E-06	7.86E-05	5.94E-05	5.94E-05	3.27E-05	2.94E-06	4.25E-05	2.64E-05	2.64E-05	1.31E-05
2413	257925.23	4085640.05	3.50E-05	5.06E-04	3.73E-04	3.73E-04	2.08E-04	5.31E-06	7.71E-05	5.83E-05	5.83E-05	3.20E-05	2.89E-06	4.17E-05	2.59E-05	2.59E-05	1.28E-05
2414	257949.51	4085638.98	3.42E-05	4.95E-04	3.65E-04	3.65E-04	2.03E-04	5.20E-06	7.54E-05	5.70E-05	5.70E-05	3.13E-05	2.82E-06	4.08E-05	2.54E-05	2.54E-05	1.25E-05
2415	257973.79	4085637.9	3.34E-05	4.83E-04	3.56E-04	3.56E-04	1.98E-04	5.06E-06	7.35E-05	5.55E-05	5.55E-05	3.05E-05	2.75E-06	3.98E-05	2.47E-05	2.47E-05	1.22E-05
2416	257998.07	4085636.83	3.25E-05	4.70E-04	3.46E-04	3.46E-04	1.93E-04	4.93E-06	7.15E-05	5.40E-05	5.40E-05	2.97E-05	2.68E-06	3.87E-05	2.40E-05	2.40E-05	1.19E-05
2417	258022.36	4085635.75	3.15E-05	4.55E-04	3.36E-04	3.36E-04	1.87E-04	4.78E-06	6.93E-05	5.24E-05	5.24E-05	2.88E-05	2.59E-06	3.75E-05	2.33E-05	2.33E-05	1.15E-05
2418	258046.64	4085634.68	3.04E-05	4.40E-04	3.24E-04	3.24E-04	1.81E-04	4.61E-06	6.70E-05	5.06E-05	5.06E-05	2.78E-05	2.51E-06	3.63E-05	2.25E-05	2.25E-05	1.11E-05
2419	258070.92	4085633.6	2.93E-05	4.24E-04	3.13E-04	3.13E-04	1.74E-04	4.45E-06	6.46E-05	4.88E-05	4.88E-05	2.68E-05	2.42E-06	3.50E-05	2.17E-05	2.17E-05	1.07E-05
2420	258095.2	4085632.53	2.82E-05	4.09E-04	3.01E-04	3.01E-04	1.68E-04	4.29E-06	6.22E-05	4.70E-05	4.70E-05	2.59E-05	2.33E-06	3.37E-05	2.09E-05	2.09E-05	1.04E-05
2421	258119.48	4085631.45	2.72E-05	3.93E-04	2.90E-04	2.90E-04	1.62E-04	4.13E-06	5.99E-05	4.53E-05	4.53E-05	2.49E-05	2.24E-06	3.24E-05	2.01E-05	2.01E-05	9.97E-06
2422	258143.77	4085630.37	2.62E-05	3.79E-04	2.79E-04	2.79E-04	1.56E-04	3.97E-06	5.77E-05	4.36E-05	4.36E-05	2.40E-05	2.16E-06	3.12E-05	1.94E-05	1.94E-05	9.60E-06
2423	258168.05	4085629.3	2.52E-05	3.64E-04	2.68E-04	2.68E-04	1.50E-04	3.82E-06	5.55E-05	4.19E-05	4.19E-05	2.30E-05	2.08E-06	3.00E-05	1.86E-05	1.86E-05	9.23E-06
2424	258192.33	4085628.22	2.41E-05	3.49E-04	2.57E-04	2.57E-04	1.44E-04	3.66E-06	5.32E-05	4.02E-05	4.02E-05	2.21E-05	1.99E-06	2.88E-05	1.79E-05	1.79E-05	8.85E-06
2425	258216.61	4085627.15	2.30E-05	3.32E-04	2.45E-04	2.45E-04	1.37E-04	3.49E-06	5.06E-05	3.83E-05	3.83E-05	2.10E-05	1.89E-06	2.74E-05	1.70E-05	1.70E-05	8.42E-06
2426	258240.89	4085626.07	2.20E-05	3.18E-04	2.34E-04	2.34E-04	1.30E-04	3.33E-06	4.84E-05	3.65E-05	3.65E-05	2.01E-05	1.81E-06	2.62E-05	1.63E-05	1.63E-05	8.05E-06
2427	258265.17	4085625	2.09E-05	3.03E-04	2.23E-04	2.23E-04	1.24E-04	3.18E-06	4.61E-05	3.48E-05	3.48E-05	1.92E-05	1.73E-06	2.50E-05	1.55E-05	1.55E-05	7.67E-06
2428	258289.46	4085623.92	1.99E-05	2.88E-04	2.12E-04	2.12E-04	1.18E-04	3.02E-06	4.39E-05	3.32E-05	3.32E-05	1.82E-05	1.64E-06	2.38E-05	1.48E-05	1.48E-05	7.30E-06
2429	258313.74	4085622.85	1.89E-05	2.74E-04	2.02E-04	2.02E-04	1.13E-04	2.87E-06	4.17E-05	3.15E-05	3.15E-05	1.73E-05	1.56E-06	2.26E-05	1.40E-05	1.40E-05	6.94E-06
2430	258338.02	4085621.77	1.80E-05	2.60E-04	1.92E-04	1.92E-04	1.07E-04	2.73E-06	3.96E-05	2.99E-05	2.99E-05	1.65E-05	1.48E-06	2.14E-05	1.33E-05	1.33E-05	6.59E-06
2431	258362.3	4085620.7	1.71E-05	2.47E-04	1.82E-04	1.82E-04	1.01E-04	2.59E-06	3.76E-05	2.84E-05	2.84E-05	1.56E-05	1.41E-06	2.03E-05	1.26E-05	1.26E-05	6.26E-06
2432	258386.58	4085619.62	1.63E-05	2.35E-04	1.73E-04	1.73E-04	9.66E-05	2.47E-06	3.58E-05	2.71E-05	2.71E-05	1.49E-05	1.34E-06	1.94E-05	1.20E-05	1.20E-05	5.96E-06
2433	257566.91	4085746.68	3.04E-05	4.40E-04	3.24E-04	3.24E-04	1.81E-04	4.61E-06	6.70E-05	5.06E-05	5.06E-05	2.78E-05	2.51E-06	3.62E-05	2.25E-05	2.25E-05	1.11E-05
2434	257544.11	4085738.35	3.10E-05	4.48E-04	3.30E-04	3.30E-04	1.84E-04	4.70E-06	6.83E-05	5.16E-05	5.16E-05	2.84E-05	2.55E-06	3.70E-05	2.30E-05	2.30E-05	1.14E-05
2435	257521.3	4085730.02	3.16E-05	4.56E-04	3.36E-04	3.36E-04	1.88E-04	4.79E-06	6.95E-05	5.25E-05	5.25E-05	2.89E-05	2.60E-06	3.76E-05	2.34E-05	2.34E-05	1.16E-05
2436	257498.5	4085721.69	3.21E-05	4.64E-04	3.42E-04	3.42E-04	1.91E-04	4.87E-06	7.07E-05	5.34E-05	5.34E-05	2.93E-05	2.64E-06	3.82E-05	2.37E-05	2.37E-05	1.18E-05
2437	257475.7	4085713.37	3.25E-05	4.71E-04	3.47E-04	3.47E-04	1.93E-04	4.94E-06	7.17E-05	5.42E-05	5.42E-05	2.98E-05	2.68E-06	3.88E-05	2.41E-05	2.41E-05	1.19E-05
2438	257452.9	4085705.04	3.29E-05	4.77E-04	3.51E-04	3.51E-04	1.96E-04	5.00E-06	7.26E-05	5.48E-05	5.48E-05	3.01E-05	2.72E-06	3.93E-05	2.44E-05	2.44E-05	1.21E-05
2439	257430.1	4085696.71	3.33E-05	4.82E-04	3.55E-04	3.55E-04	1.98E-04	5.05E-06	7.34E-05	5.54E-05	5.54E-05	3.05E-05	2.75E-06	3.97E-05	2.47E-05	2.47E-05	1.22E-05
2440	257407.3	4085688.38	3.36E-05	4.86E-04	3.58E-04	3.58E-04	2.00E-04	5.10E-06	7.41E-05	5.60E-05	5.60E-05	3.08E-05	2.77E-06	4.01E-05	2.49E-05	2.49E-05	1.23E-05
2441	257384.5	4085680.05	3.39E-05	4.90E-04	3.61E-04	3.61E-04	2.01E-04	5.14E-06	7.46E-05	5.64E-05	5.64E-05	3.10E-05	2.79E-06	4.04E-05	2.51E-05	2.51E-05	1.24E-05
2442	257361.7	4085671.72	3.41E-05	4.93E-04	3.63E-04	3.63E-04	2.02E-04	5.17E-06	7.50E-05	5.67E-05	5.67E-05	3.12E-05	2.81E-06	4.06E-05	2.52E-05	2.52E-05	1.25E-05
2443	257338.9	4085663.39	3.41E-05	4.94E-04	3.64E-04	3.64E-04	2.03E-04	5.18E-06	7.52E-05	5.68E-05	5.68E-05	3.12E-05	2.81E-06	4.07E-05	2.53E-05	2.53E-05	1.25E-05
2444	257316.09	4085655.06	3.41E-05	4.94E-04	3.64E-04	3.64E-04	2.03E-04	5.18E-06	7.52E-05	5.68E-05	5.68E-05	3.12E-05	2.81E-06	4.07E-05	2.53E-05	2.53E-05	1.25E-05
2445	257293.29	4085646.73	3.40E-05	4.91E-04	3.62E-04	3.62E-04	2.02E-04	5.15E-06	7.48E-05	5.65E-05	5.65E-05	3.11E-05	2.80E-06	4.05E-05	2.52E-05	2.52E-05	1.24E-05
2446	257270.49	4085638.4	3.36E-05	4.86E-04	3.58E-04	3.58E-04	2.00E-04	5.10E-06	7.40E-05	5.59E-05	5.59E-05	3.07E-05	2.77E-06	4.01E-05	2.49E-05	2.49E-05	1.23E-05
2447	257247.69	4085630.07	3.31E-05	4.79E-04	3.53E-04	3.53E-04	1.97E-04	5.02E-06	7.29E-05	5.51E-05	5.51E-05	3.03E-05	2.73E-06	3.95E-05	2.45E-05	2.45E-05	1.21E-05
2448	257224.89	4085621.74	3.25E-05	4.71E-04	3.47E-04	3.47E-04	1.93E-04	4.94E-06	7.17E-05	5.42E-05	5.42E-05	2.98E-05	2.68E-06	3.88E-05	2.41E-05	2.41E-05	1.19E-05
2449	257202.09	4085613.41	3.19E-05	4.62E-04	3.40E-04	3.40E-04	1.90E-04	4.84E-06	7.03E-05	5.31E-05	5.31E-05	2.92E-05	2.63E-06	3.81E-05	2.36E-05	2.36E-05	1.17E-05
2450	257179.29	4085605.08	3.13E-05	4.52E-04	3.33E-04	3.33E-04	1.86E-04	4.74E-06	6.89E-05	5.20E-05	5.20E-05	2.86E-05	2.58E-06	3.73E-05	2.31E-05	2.31E-05	1.15E-05
2451	257146.33	4085574.71	3.08E-05	4.46E-04	3.29E-04	3.29E-04	1.83E-04	4.68E-06	6.79E-05	5.13E-05	5.13E-05	2.82E-05	2.54E-06	3.68E-05	2.28E-05	2.28E-05	1.13E-05
2452	257136.18	4085552.66	3.10E-05	4.48E-04	3.30E-04	3.30E-04	1.84E-04	4.70E-06	6.82E-05	5.15E-05	5.15E-05	2.83E-05	2.55E-06	3.69E-05	2.29E-05	2.29E-05	1.14E-05
2453	257126.03	4085530.61	3.09E-05	4.47E-04	3.30E-04	3.30E-04	1.84E-04	4.69E-06	6.81E-05	5.15E-05	5.15E-05	2.83E-05	2.55E-06	3.69E-05	2.29E-05	2.29E-05	1.13E-05
2454	257115.87	4085508.56	3.06E-05	4.43E-04	3.27E-04	3.27E-04	1.82E-04	4.65E-06	6.75E-05	5.10E-05	5.10E-05	2.80E-05	2.52E-06	3.65E-05	2.27E-05	2.27E-05	1.12E-05
2455	257105.72	4085486.51	3.01E-05	4.35E-04	3.21E-04	3.21E-04	1.79E-04	4.57E-06	6.63E-05	5.01E-05	5.01E-05	2.75E-05	2.48E-06	3.59E-05	2.23E-05	2.23E-05	1.10E-05
2456	257095.57	4085464.46	2.93E-05	4.23E-04	3.12E-04	3.12E-04	1.74E-04	4.44E-06	6.45E-05	4.87E-05	4.87E-05	2.68E-05	2.41E-06	3.49E-05	2.17E-05	2.17E-05	1.07E-05
2457	257085.41	4085442.41	2.82E-05	4.08E-04	3.00E-04	3.00E-04	1.68E-04	4.28E-06	6.21E-05	4.69E-05	4.69E-05	2.58E-05	2.32E-06	3.36E-05	2.09E-05	2.09E-05	1.03E-05
2458	257075.26	4085420.36	2.68E-05	3.88E-04	2.86E-04	2.86E-04	1.59E-04	4.07E-06	5.91E-05	4.47E-05	4.47E-05	2.46E-05	2.21E-06	3.20E-05	1.99E-05	1.99E-05	9.83E-06
2459	257065.11	4085398.31	2.53E-05	3.65E-04	2.69E-04	2.69E-04	1.50E-04	3.83E-06	5.56E-05	4.20E-05	4.20E-05	2.31E-05	2.08E-06	3.01E-05	1.87E-05	1.87E-05	9.26E-06
2460	257054.95	4085376.26	2.35E-05	3.40E-04	2.51E-04	2.51E-04	1.40E-04	3.57E-06	5.18E-05	3.91E-05	3.91E-05	2.15E-05	1.94E-06	2.80E-05	1.74E-05	1.74E-05	8.62E-06
2461	257044.8	4085354.21	2.17E-05	3.14E-04	2.32E-04	2.32E-04	1.29E-04	3.30E-06	4.79E-05	3.62E-05	3.62E-05	1.99E-05	1.79E-06	2.59E-05	1.61E-05	1.61E-05	7.96E-06
2462	257034.65	4085332.16	1.99E-05	2.88E-04	2.13E-04	2.13E-04	1.18E-04	3.03E-06	4.39E-05	3.32E-05	3.32E-05	1.82E-05	1.64E-06	2.38E-05	1.48E-05	1.48E-05	7.31E-06
2463	257024.49	4085310.11	1.83E-05	2.64E-04	1.95E-04	1.95E-04	1.08E-04	2.77E-06	4.02E-05	3.04E-05	3.04E-05	1.67E-05	1.50E-06	2.18E-05	1.35E-05	1.35E-05	6.69E-06
2464	257014.34	4085288.06	1.67E-05	2.42E-04	1.78E-04	1.78E-04	9.94E-05	2.54E-06	3.69E-05	2.78E-05	2.78E-05	1.53E-05	1.38E-06	1.99E-05	1.24E-05	1.24E-05	6.13E-06
2465	257004.19	4085266.01	1.54E-05	2.23E-04	1.64E-04	1.64E-04	9.15E-05	2.34E-06	3.39E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.64E-06
2466	256994.03	4085243.96	1.43E-05	2.06E-04	1.52E-04	1.52E-04	8.47E-05	2.16E-06	3.14E-05	2.37E-05	2.37E-05	1.30E-05	1.17E-06	1.70E-05	1.06E-05	1.06E-05	5.22E-06
2467	256983.88	4085221.91	1.33E-05	1.93E-04	1.42E-04	1.42E-04	7.91E-05	2.02E-06	2.93E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.86E-06	9.86E-06	4.88E-06
2468	256973.72	4085199.87	1.25E-05	1.81E-04	1.34E-04	1.34E-04	7.46E-05	1.90E-06	2.76E-05	2.09E-05	2.09E-05	1.15E-05	1.03E-06	1.50E-05	9.29E-06	9.29E-06	4.60E-06
2469	257589.71	4085755.01	2.98E-05	4.31E-04	3.17E-04	3.17E-04	1.77E-04	4.52E-06	6.56E-05	4.96E-05	4.96E-05	2.72E-05	2.45E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
2470	257613.99	4085753.94	2.98E-05	4.31E-04	3.18E-04	3.18E-04	1.77E-04	4.52E-06	6.57E-05	4.96E-05	4.96E-05	2.73E-05	2.46E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
2471	257638.27	4085752.86	2.98E-05	4.31E-04	3.18E-04	3.18E-04	1.77E-04	4.52E-06	6.57E-05	4.96E-05	4.96E-05	2.73E-05	2.46E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
2472	257662.55	4085751.79	2.97E-05	4.30E-04	3.17E-04	3.17E-04	1.77E-04	4.51E-06	6.55E-05	4.95E-05	4.95E-05	2.72E-05	2.45E-06	3.55E-05	2.20E-05	2.20E-05	1.09E-05
2473	257686.84	4085750.71	2.96E-05	4.28E-04	3.16E-04	3.16E-04	1.76E-04	4.50E-06	6.53E-05	4.93E-05	4.93E-05	2.71E-05	2.44E-06	3.53E-05	2.19E-05	2.19E-05	1.09E-05
2474	257711.12	4085749.64	2.94E-05	4.26E-04	3.14E-04	3.14E-04	1.75E-04	4.47E-06	6.49E-05	4.90E-05	4.90E-05	2.69E-05	2.43E-06	3.51E-05	2.18E-05	2.18E-05	1.08E-05
2475	257735.4	4085748.56	2.92E-05	4.22E-04	3.11E-04	3.11E-04	1.74E-04	4.43E-06	6.43E-05	4.86E-05	4.86E-05	2.67E-05	2.41E-06	3.48E-05	2.16E-05	2.16E-05	1.07E-05
2476	257759.68	4085747.48	2.89E-05	4.18E-04	3.08E-04	3.08E-04	1.72E-04	4.39E-06	6.37E-05	4.81E-05	4.81E-05	2.65E-05	2.38E-06	3.45E-05	2.14E-05	2.14E-05	1.06E-05
2477	257783.96	4085746.41	2.86E-05	4.13E-04	3.05E-04	3.05E-04	1.70E-04	4.34E-06	6.29E-05	4.75E-05	4.75E-05	2.61E-05	2.35E-06	3.41E-05	2.12E-05	2.12E-05	1.05E-05
2478	257808.24	4085745.33	2.81E-05	4.07E-04	3.00E-04	3.00E-04	1.67E-04	4.27E-06	6.20E-05	4.68E-05	4.68E-05	2.57E-05	2.32E-06	3.35E-05	2.08E-05	2.08E-05	1.03E-05
2479	257832.53	4085744.26	2.76E-05	3.99E-04	2.94E-04	2.94E-04	1.64E-04	4.19E-06	6.09E-05	4.60E-05	4.60E-05	2.53E-05	2.28E-06	3.29E-05	2.05E-05	2.05E-05	1.01E-05
2480	257856.81	4085743.18	2.72E-05	3.93E-04	2.90E-04	2.90E-04	1.61E-04	4.12E-06	5.98E-05	4.52E-05	4.52E-05	2.49E-05	2.24E-06	3.24E-05	2.01E-05	2.01E-05	9.96E-06
2481	257881.09	4085742.11	2.67E-05	3.86E-04	2.85E-04	2.85E-04	1.59E-04	4.05E-06	5.88E-05	4.44E-05	4.44E-05	2.44E-05	2.20E-06	3.18E-05	1.98E-05	1.98E-05	9.78E-06
2482	257905.37	4085741.03	2.62E-05	3.79E-04	2.79E-04	2.79E-04	1.56E-04	3.97E-06	5.77E-05	4.36E-05	4.36E-05	2.40E-05	2.16E-06	3.12E-05	1.94E-05	1.94E-05	9.60E-06
2483	257929.65	4085739.96	2.56E-05	3.70E-04	2.73E-04	2.73E-04	1.52E-04	3.89E-06	5.64E-05	4.26E-05	4.26E-05	2.34E-05	2.11E-06	3.05E-05	1.90E-05	1.90E-05	9.39E-06
2484	257953.94	4085738.88	2.50E-05	3.62E-04	2.66E-04	2.66E-04	1.49E-04	3.79E-06	5.51E-05	4.16E-05	4.16E-05	2.29E-05	2.06E-06	2.98E-05	1.85E-05	1.85E-05	9.16E-06
2485	257978.22	4085737.81	2.43E-05	3.52E-04	2.59E-04	2.59E-04	1.45E-04	3.69E-06	5.36E-05	4.05E-05	4.05E-05	2.23E-05	2.01E-06	2.90E-05	1.80E-05	1.80E-05	8.92E-06
2486	258002.5	4085736.73	2.36E-05	3.42E-04	2.52E-04	2.52E-04	1.40E-04	3.59E-06	5.21E-05	3.93E-05	3.93E-05	2.16E-05	1.95E-06	2.82E-05	1.75E-05	1.75E-05	8.66E-06
2487	258026.78	4085735.65	2.29E-05	3.32E-04	2.44E-04	2.44E-04	1.36E-04	3.48E-06	5.05E-05	3.82E-05	3.82E-05	2.10E-05	1.89E-06	2.73E-05	1.70E-05	1.70E-05	8.40E-06
2488	258051.06	4085734.58	2.22E-05	3.21E-04	2.37E-04	2.37E-04	1.32E-04	3.37E-06	4.89E-05	3.70E-05	3.70E-05	2.03E-05	1.83E-06	2.65E-05	1.65E-05	1.65E-05	8.14E-06
2489	258075.34	4085733.5	2.15E-05	3.11E-04	2.29E-04	2.29E-04	1.28E-04	3.27E-06	4.74E-05	3.58E-05	3.58E-05	1.97E-05	1.77E-06	2.57E-05	1.59E-05	1.59E-05	7.89E-06
2490	258099.63	4085732.43	2.09E-05	3.02E-04	2.22E-04	2.22E-04	1.24E-04	3.17E-06	4.60E-05	3.47E-05	3.47E-05	1.91E-05	1.72E-06	2.49E-05	1.54E-05	1.54E-05	7.65E-06
2491	258123.91	4085731.35	2.02E-05	2.92E-04	2.15E-04	2.15E-04	1.20E-04	3.07E-06	4.45E-05	3.36E-05	3.36E-05	1.85E-05	1.67E-06	2.41E-05	1.50E-05	1.50E-05	7.41E-06
2492	258148.19	4085730.28	1.96E-05	2.83E-04	2.08E-04	2.08E-04	1.16E-04	2.97E-06	4.31E-05	3.25E-05	3.25E-05	1.79E-05	1.61E-06	2.33E-05	1.45E-05	1.45E-05	7.17E-06
2493	258172.47	4085729.2	1.89E-05	2.73E-04	2.01E-04	2.01E-04	1.12E-04	2.87E-06	4.16E-05	3.14E-05	3.14E-05	1.73E-05	1.56E-06	2.25E-05	1.40E-05	1.40E-05	6.92E-06
2494	258196.75	4085728.13	1.82E-05	2.63E-04	1.94E-04	1.94E-04	1.08E-04	2.76E-06	4.01E-05	3.03E-05	3.03E-05	1.67E-05	1.50E-06	2.17E-05	1.35E-05	1.35E-05	6.67E-06
2495	258221.04	4085727.05	1.75E-05	2.53E-04	1.87E-04	1.87E-04	1.04E-04	2.66E-06	3.86E-05	2.92E-05	2.92E-05	1.60E-05	1.44E-06	2.09E-05	1.30E-05	1.30E-05	6.42E-06
2496	258245.32	4085725.98	1.68E-05	2.43E-04	1.79E-04	1.79E-04	9.99E-05	2.55E-06	3.71E-05	2.80E-05	2.80E-05	1.54E-05	1.39E-06	2.00E-05	1.25E-05	1.25E-05	6.16E-06
2497	258269.6	4085724.9	1.61E-05	2.33E-04	1.72E-04	1.72E-04	9.58E-05	2.45E-06	3.55E-05	2.68E-05	2.68E-05	1.48E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.91E-06
2498	258293.88	4085723.82	1.54E-05	2.23E-04	1.65E-04	1.65E-04	9.18E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.66E-06
2499	258318.16	4085722.75	1.48E-05	2.14E-04	1.57E-04	1.57E-04	8.78E-05	2.24E-06	3.25E-05	2.46E-05	2.46E-05	1.35E-05	1.22E-06	1.76E-05	1.09E-05	1.09E-05	5.41E-06
2500	258342.44	4085721.67	1.41E-05	2.04E-04	1.50E-04	1.50E-04	8.39E-05	2.14E-06	3.11E-05	2.35E-05	2.35E-05	1.29E-05	1.16E-06	1.68E-05	1.05E-05	1.05E-05	5.17E-06
2501	258366.73	4085720.6	1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.01E-05	2.05E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.61E-05	9.99E-06	9.99E-06	4.94E-06
2502	258391.01	4085719.52	1.29E-05	1.86E-04	1.37E-04	1.37E-04	7.66E-05	1.96E-06	2.84E-05	2.14E-05	2.14E-05	1.18E-05	1.06E-06	1.54E-05	9.54E-06	9.54E-06	4.72E-06
2503	257572.16	4085846.89	2.41E-05	3.48E-04	2.57E-04	2.57E-04	1.43E-04	3.65E-06	5.30E-05	4.01E-05	4.01E-05	2.20E-05	1.98E-06	2.87E-05	1.78E-05	1.78E-05	8.82E-06
2504	257550.18	4085838.86	2.45E-05	3.54E-04	2.61E-04	2.61E-04	1.46E-04	3.72E-06	5.40E-05	4.08E-05	4.08E-05	2.24E-05	2.02E-06	2.92E-05	1.81E-05	1.81E-05	8.98E-06
2505	257528.21	4085830.83	2.49E-05	3.60E-04	2.66E-04	2.66E-04	1.48E-04	3.78E-06	5.49E-05	4.15E-05	4.15E-05	2.28E-05	2.05E-06	2.97E-05	1.85E-05	1.85E-05	9.13E-06
2506	257506.23	4085822.8	2.53E-05	3.66E-04	2.70E-04	2.70E-04	1.50E-04	3.84E-06	5.58E-05	4.21E-05	4.21E-05	2.32E-05	2.09E-06	3.02E-05	1.88E-05	1.88E-05	9.28E-06
2507	257484.26	4085814.78	2.57E-05	3.72E-04	2.74E-04	2.74E-04	1.53E-04	3.90E-06	5.66E-05	4.28E-05	4.28E-05	2.35E-05	2.12E-06	3.06E-05	1.90E-05	1.90E-05	9.42E-06
2508	257462.28	4085806.75	2.61E-05	3.77E-04	2.78E-04	2.78E-04	1.55E-04	3.96E-06	5.74E-05	4.34E-05	4.34E-05	2.39E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.56E-06
2509	257440.31	4085798.72	2.64E-05	3.82E-04	2.82E-04	2.82E-04	1.57E-04	4.01E-06	5.82E-05	4.40E-05	4.40E-05	2.42E-05	2.18E-06	3.15E-05	1.96E-05	1.96E-05	9.68E-06
2510	257418.33	4085790.69	2.67E-05	3.87E-04	2.85E-04	2.85E-04	1.59E-04	4.06E-06	5.89E-05	4.45E-05	4.45E-05	2.45E-05	2.20E-06	3.19E-05	1.98E-05	1.98E-05	9.80E-06
2511	257396.36	4085782.67	2.70E-05	3.91E-04	2.88E-04	2.88E-04	1.61E-04	4.10E-06	5.95E-05	4.50E-05	4.50E-05	2.47E-05	2.23E-06	3.22E-05	2.00E-05	2.00E-05	9.90E-06
2512	257374.38	4085774.64	2.73E-05	3.95E-04	2.91E-04	2.91E-04	1.62E-04	4.14E-06	6.01E-05	4.54E-05	4.54E-05	2.50E-05	2.25E-06	3.25E-05	2.02E-05	2.02E-05	1.00E-05
2513	257352.41	4085766.61	2.75E-05	3.98E-04	2.94E-04	2.94E-04	1.64E-04	4.18E-06	6.07E-05	4.59E-05	4.59E-05	2.52E-05	2.27E-06	3.28E-05	2.04E-05	2.04E-05	1.01E-05
2514	257330.43	4085758.58	2.78E-05	4.02E-04	2.96E-04	2.96E-04	1.65E-04	4.21E-06	6.12E-05	4.62E-05	4.62E-05	2.54E-05	2.29E-06	3.31E-05	2.06E-05	2.06E-05	1.02E-05
2515	257308.46	4085750.56	2.79E-05	4.04E-04	2.98E-04	2.98E-04	1.66E-04	4.24E-06	6.15E-05	4.65E-05	4.65E-05	2.55E-05	2.30E-06	3.33E-05	2.07E-05	2.07E-05	1.02E-05
2516	257286.48	4085742.53	2.80E-05	4.05E-04	2.98E-04	2.98E-04	1.66E-04	4.25E-06	6.17E-05	4.66E-05	4.66E-05	2.56E-05	2.31E-06	3.34E-05	2.07E-05	2.07E-05	1.03E-05

2517	257264.51	4085734.5	2.80E-05	4.04E-04	2.98E-04	2.98E-04	1.66E-04	4.24E-06	6.16E-05	4.65E-05	4.65E-05	2.56E-05	2.31E-06	3.33E-05	2.07E-05	2.07E-05	1.03E-05
2518	257242.53	4085726.47	2.78E-05	4.03E-04	2.97E-04	2.97E-04	1.65E-04	4.23E-06	6.14E-05	4.63E-05	4.63E-05	2.55E-05	2.30E-06	3.32E-05	2.06E-05	2.06E-05	1.02E-05
2519	257220.56	4085718.45	2.77E-05	4.00E-04	2.95E-04	2.95E-04	1.65E-04	4.20E-06	6.10E-05	4.61E-05	4.61E-05	2.53E-05	2.28E-06	3.30E-05	2.05E-05	2.05E-05	1.01E-05
2520	257198.58	4085710.42	2.74E-05	3.97E-04	2.93E-04	2.93E-04	1.63E-04	4.17E-06	6.05E-05	4.57E-05	4.57E-05	2.51E-05	2.26E-06	3.27E-05	2.03E-05	2.03E-05	1.01E-05
2521	257176.61	4085702.39	2.71E-05	3.92E-04	2.89E-04	2.89E-04	1.61E-04	4.12E-06	5.98E-05	4.52E-05	4.52E-05	2.48E-05	2.24E-06	3.23E-05	2.01E-05	2.01E-05	9.95E-06
2522	257154.63	4085694.36	2.68E-05	3.87E-04	2.86E-04	2.86E-04	1.59E-04	4.07E-06	5.90E-05	4.46E-05	4.46E-05	2.45E-05	2.21E-06	3.19E-05	1.98E-05	1.98E-05	9.82E-06
2523	257132.66	4085686.34	2.64E-05	3.82E-04	2.82E-04	2.82E-04	1.57E-04	4.01E-06	5.82E-05	4.40E-05	4.40E-05	2.42E-05	2.18E-06	3.15E-05	1.96E-05	1.96E-05	9.69E-06
2524	257110.68	4085678.31	2.60E-05	3.77E-04	2.78E-04	2.78E-04	1.55E-04	3.95E-06	5.74E-05	4.34E-05	4.34E-05	2.38E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.55E-06
2525	257078.92	4085649.03	2.59E-05	3.75E-04	2.76E-04	2.76E-04	1.54E-04	3.93E-06	5.71E-05	4.32E-05	4.32E-05	2.37E-05	2.14E-06	3.09E-05	1.92E-05	1.92E-05	9.50E-06
2526	257069.14	4085627.78	2.61E-05	3.78E-04	2.78E-04	2.78E-04	1.55E-04	3.96E-06	5.76E-05	4.35E-05	4.35E-05	2.39E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.58E-06
2527	257059.35	4085606.53	2.62E-05	3.79E-04	2.79E-04	2.79E-04	1.56E-04	3.98E-06	5.77E-05	4.36E-05	4.36E-05	2.40E-05	2.16E-06	3.12E-05	1.94E-05	1.94E-05	9.60E-06
2528	257049.57	4085585.28	2.61E-05	3.78E-04	2.79E-04	2.79E-04	1.55E-04	3.97E-06	5.76E-05	4.35E-05	4.35E-05	2.39E-05	2.15E-06	3.12E-05	1.94E-05	1.94E-05	9.58E-06
2529	257039.78	4085564.03	2.59E-05	3.75E-04	2.76E-04	2.76E-04	1.54E-04	3.93E-06	5.71E-05	4.31E-05	4.31E-05	2.37E-05	2.14E-06	3.09E-05	1.92E-05	1.92E-05	9.50E-06
2530	257029.99	4085542.78	2.55E-05	3.69E-04	2.72E-04	2.72E-04	1.52E-04	3.87E-06	5.62E-05	4.24E-05	4.24E-05	2.33E-05	2.10E-06	3.04E-05	1.89E-05	1.89E-05	9.35E-06
2531	257020.21	4085521.53	2.49E-05	3.60E-04	2.65E-04	2.65E-04	1.48E-04	3.78E-06	5.49E-05	4.14E-05	4.14E-05	2.28E-05	2.05E-06	2.97E-05	1.84E-05	1.84E-05	9.13E-06
2532	257010.42	4085500.28	2.41E-05	3.49E-04	2.57E-04	2.57E-04	1.43E-04	3.66E-06	5.31E-05	4.01E-05	4.01E-05	2.21E-05	1.99E-06	2.87E-05	1.79E-05	1.79E-05	8.84E-06
2533	257000.64	4085479.03	2.31E-05	3.35E-04	2.47E-04	2.47E-04	1.38E-04	3.51E-06	5.10E-05	3.85E-05	3.85E-05	2.12E-05	1.91E-06	2.76E-05	1.71E-05	1.71E-05	8.48E-06
2534	256990.85	4085457.78	2.20E-05	3.18E-04	2.35E-04	2.35E-04	1.31E-04	3.34E-06	4.85E-05	3.66E-05	3.66E-05	2.01E-05	1.81E-06	2.62E-05	1.63E-05	1.63E-05	8.06E-06
2535	256981.07	4085436.52	2.07E-05	3.00E-04	2.21E-04	2.21E-04	1.23E-04	3.15E-06	4.57E-05	3.45E-05	3.45E-05	1.90E-05	1.71E-06	2.47E-05	1.54E-05	1.54E-05	7.60E-06
2536	256971.28	4085415.27	1.94E-05	2.81E-04	2.07E-04	2.07E-04	1.15E-04	2.94E-06	4.27E-05	3.23E-05	3.23E-05	1.78E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.11E-06
2537	256961.5	4085394.02	1.80E-05	2.61E-04	1.92E-04	1.92E-04	1.07E-04	2.74E-06	3.97E-05	3.00E-05	3.00E-05	1.65E-05	1.49E-06	2.15E-05	1.34E-05	1.34E-05	6.61E-06
2538	256951.71	4085372.77	1.67E-05	2.41E-04	1.78E-04	1.78E-04	9.92E-05	2.53E-06	3.68E-05	2.78E-05	2.78E-05	1.53E-05	1.38E-06	1.99E-05	1.24E-05	1.24E-05	6.12E-06
2539	256941.92	4085351.52	1.54E-05	2.23E-04	1.64E-04	1.64E-04	9.16E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.65E-06
2540	256932.14	4085330.27	1.43E-05	2.06E-04	1.52E-04	1.52E-04	8.47E-05	2.16E-06	3.14E-05	2.37E-05	2.37E-05	1.30E-05	1.18E-06	1.70E-05	1.06E-05	1.06E-05	5.23E-06
2541	256922.35	4085309.02	1.32E-05	1.91E-04	1.41E-04	1.41E-04	7.86E-05	2.01E-06	2.91E-05	2.20E-05	2.20E-05	1.21E-05	1.09E-06	1.58E-05	9.79E-06	9.79E-06	4.85E-06
2542	256912.57	4085287.77	1.23E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2543	256902.78	4085266.52	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.89E-05	1.76E-06	2.56E-05	1.93E-05	1.93E-05	1.06E-05	9.56E-07	1.38E-05	8.59E-06	8.59E-06	4.25E-06
2544	256893	4085245.27	1.10E-05	1.59E-04	1.17E-04	1.17E-04	6.53E-05	1.67E-06	2.42E-05	1.83E-05	1.83E-05	1.00E-05	9.05E-07	1.31E-05	8.13E-06	8.13E-06	4.02E-06
2545	256883.21	4085224.02	1.05E-05	1.51E-04	1.12E-04	1.12E-04	6.22E-05	1.59E-06	2.31E-05	1.74E-05	1.74E-05	9.57E-06	8.62E-07	1.25E-05	7.75E-06	7.75E-06	3.84E-06
2546	256873.43	4085202.77	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.96E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.18E-06	8.27E-07	1.20E-05	7.43E-06	7.43E-06	3.68E-06
2547	257594.13	4085854.91	2.36E-05	3.42E-04	2.52E-04	2.52E-04	1.40E-04	3.58E-06	5.20E-05	3.93E-05	3.93E-05	2.16E-05	1.95E-06	2.82E-05	1.75E-05	1.75E-05	8.66E-06
2548	257618.41	4085853.84	2.36E-05	3.41E-04	2.51E-04	2.51E-04	1.40E-04	3.58E-06	5.20E-05	3.93E-05	3.93E-05	2.16E-05	1.94E-06	2.81E-05	1.75E-05	1.75E-05	8.65E-06
2549	257642.7	4085852.76	2.35E-05	3.40E-04	2.51E-04	2.51E-04	1.40E-04	3.57E-06	5.18E-05	3.92E-05	3.92E-05	2.15E-05	1.94E-06	2.81E-05	1.74E-05	1.74E-05	8.63E-06
2550	257666.98	4085851.69	2.34E-05	3.39E-04	2.50E-04	2.50E-04	1.39E-04	3.56E-06	5.16E-05	3.90E-05	3.90E-05	2.14E-05	1.93E-06	2.79E-05	1.74E-05	1.74E-05	8.59E-06
2551	257691.26	4085850.61	2.33E-05	3.37E-04	2.48E-04	2.48E-04	1.38E-04	3.53E-06	5.13E-05	3.88E-05	3.88E-05	2.13E-05	1.92E-06	2.78E-05	1.72E-05	1.72E-05	8.54E-06
2552	257715.54	4085849.54	2.31E-05	3.34E-04	2.46E-04	2.46E-04	1.37E-04	3.51E-06	5.09E-05	3.84E-05	3.84E-05	2.11E-05	1.90E-06	2.75E-05	1.71E-05	1.71E-05	8.47E-06
2553	257739.82	4085848.46	2.29E-05	3.31E-04	2.44E-04	2.44E-04	1.36E-04	3.47E-06	5.04E-05	3.80E-05	3.80E-05	2.09E-05	1.88E-06	2.72E-05	1.69E-05	1.69E-05	8.38E-06
2554	257764.11	4085847.39	2.25E-05	3.25E-04	2.39E-04	2.39E-04	1.33E-04	3.41E-06	4.95E-05	3.74E-05	3.74E-05	2.05E-05	1.85E-06	2.68E-05	1.66E-05	1.66E-05	8.23E-06
2555	257788.39	4085846.31	2.21E-05	3.20E-04	2.36E-04	2.36E-04	1.31E-04	3.35E-06	4.87E-05	3.68E-05	3.68E-05	2.02E-05	1.82E-06	2.64E-05	1.64E-05	1.64E-05	8.10E-06
2556	257812.67	4085845.24	2.17E-05	3.14E-04	2.32E-04	2.32E-04	1.29E-04	3.30E-06	4.79E-05	3.62E-05	3.62E-05	1.99E-05	1.79E-06	2.59E-05	1.61E-05	1.61E-05	7.97E-06
2557	257836.95	4085844.16	2.13E-05	3.09E-04	2.27E-04	2.27E-04	1.27E-04	3.24E-06	4.70E-05	3.55E-05	3.55E-05	1.95E-05	1.76E-06	2.54E-05	1.58E-05	1.58E-05	7.82E-06
2558	257861.23	4085843.08	2.09E-05	3.03E-04	2.23E-04	2.23E-04	1.24E-04	3.17E-06	4.61E-05	3.48E-05	3.48E-05	1.91E-05	1.72E-06	2.49E-05	1.55E-05	1.55E-05	7.67E-06
2559	257885.51	4085842.01	2.05E-05	2.96E-04	2.18E-04	2.18E-04	1.22E-04	3.11E-06	4.51E-05	3.41E-05	3.41E-05	1.87E-05	1.69E-06	2.44E-05	1.52E-05	1.52E-05	7.51E-06
2560	257909.8	4085840.93	2.00E-05	2.90E-04	2.13E-04	2.13E-04	1.19E-04	3.04E-06	4.41E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.39E-05	1.48E-05	1.48E-05	7.34E-06
2561	257934.08	4085839.86	1.96E-05	2.83E-04	2.08E-04	2.08E-04	1.16E-04	2.97E-06	4.31E-05	3.25E-05	3.25E-05	1.79E-05	1.61E-06	2.33E-05	1.45E-05	1.45E-05	7.17E-06
2562	257958.36	4085838.78	1.91E-05	2.76E-04	2.03E-04	2.03E-04	1.13E-04	2.90E-06	4.21E-05	3.18E-05	3.18E-05	1.75E-05	1.57E-06	2.28E-05	1.41E-05	1.41E-05	7.00E-06
2563	257982.64	4085837.71	1.86E-05	2.69E-04	1.98E-04	1.98E-04	1.11E-04	2.83E-06	4.10E-05	3.10E-05	3.10E-05	1.70E-05	1.53E-06	2.22E-05	1.38E-05	1.38E-05	6.82E-06
2564	258006.92	4085836.63	1.82E-05	2.63E-04	1.94E-04	1.94E-04	1.08E-04	2.76E-06	4.00E-05	3.02E-05	3.02E-05	1.66E-05	1.50E-06	2.16E-05	1.34E-05	1.34E-05	6.66E-06
2565	258031.21	4085835.56	1.77E-05	2.56E-04	1.89E-04	1.89E-04	1.05E-04	2.69E-06	3.90E-05	2.95E-05	2.95E-05	1.62E-05	1.46E-06	2.11E-05	1.31E-05	1.31E-05	6.49E-06
2566	258055.49	4085834.48	1.73E-05	2.50E-04	1.84E-04	1.84E-04	1.03E-04	2.62E-06	3.80E-05	2.87E-05	2.87E-05	1.58E-05	1.42E-06	2.06E-05	1.28E-05	1.28E-05	6.32E-06
2567	258079.77	4085833.41	1.68E-05	2.43E-04	1.79E-04	1.79E-04	9.99E-05	2.55E-06	3.70E-05	2.80E-05	2.80E-05	1.54E-05	1.39E-06	2.00E-05	1.24E-05	1.24E-05	6.16E-06
2568	258104.05	4085832.33	1.64E-05	2.37E-04	1.74E-04	1.74E-04	9.73E-05	2.48E-06	3.61E-05	2.72E-05	2.72E-05	1.50E-05	1.35E-06	1.95E-05	1.21E-05	1.21E-05	6.00E-06
2569	258128.33	4085831.25	1.59E-05	2.30E-04	1.70E-04	1.70E-04	9.46E-05	2.41E-06	3.51E-05	2.65E-05	2.65E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.83E-06
2570	258152.61	4085830.18	1.54E-05	2.23E-04	1.65E-04	1.65E-04	9.18E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.66E-06
2571	258176.9	4085829.1	1.50E-05	2.16E-04	1.59E-04	1.59E-04	8.89E-05	2.27E-06	3.29E-05	2.49E-05	2.49E-05	1.37E-05	1.23E-06	1.78E-05	1.11E-05	1.11E-05	5.48E-06
2572	258201.18	4085828.03	1.45E-05	2.09E-04	1.54E-04	1.54E-04	8.59E-05	2.19E-06	3.18E-05	2.41E-05	2.41E-05	1.32E-05	1.19E-06	1.72E-05	1.07E-05	1.07E-05	5.30E-06
2573	258225.46	4085826.95	1.40E-05	2.02E-04	1.49E-04	1.49E-04	8.29E-05	2.12E-06	3.07E-05	2.32E-05	2.32E-05	1.28E-05	1.15E-06	1.66E-05	1.03E-05	1.03E-05	5.12E-06
2574	258249.74	4085825.88	1.35E-05	1.95E-04	1.43E-04	1.43E-04	8.00E-05	2.04E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.60E-05	9.97E-06	9.97E-06	4.93E-06
2575	258274.02	4085824.8	1.30E-05	1.88E-04	1.38E-04	1.38E-04	7.71E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.60E-06	9.60E-06	4.75E-06
2576	258298.31	4085823.73	1.25E-05	1.81E-04	1.33E-04	1.33E-04	7.42E-05	1.90E-06	2.75E-05	2.08E-05	2.08E-05	1.14E-05	1.03E-06	1.49E-05	9.25E-06	9.25E-06	4.58E-06
2577	258322.59	4085822.65	1.20E-05	1.74E-04	1.28E-04	1.28E-04	7.14E-05	1.82E-06	2.65E-05	2.00E-05	2.00E-05	1.10E-05	9.90E-07	1.43E-05	8.90E-06	8.90E-06	4.40E-06
2578	258346.87	4085821.58	1.16E-05	1.67E-04	1.23E-04	1.23E-04	6.87E-05	1.75E-06	2.55E-05	1.92E-05	1.92E-05	1.06E-05	9.52E-07	1.38E-05	8.56E-06	8.56E-06	4.24E-06
2579	258371.15	4085820.5	1.11E-05	1.61E-04	1.18E-04	1.18E-04	6.60E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.15E-07	1.32E-05	8.23E-06	8.23E-06	4.07E-06
2580	258395.43	4085819.42	1.07E-05	1.54E-04	1.14E-04	1.14E-04	6.34E-05	1.62E-06	2.35E-05	1.78E-05	1.78E-05	9.77E-06	8.80E-07	1.27E-05	7.90E-06	7.90E-06	3.91E-06
2581	257580.57	4086046.53	1.64E-05	2.37E-04	1.74E-04	1.74E-04	9.72E-05	2.48E-06	3.61E-05	2.72E-05	2.72E-05	1.50E-05	1.35E-06	1.95E-05	1.21E-05	1.21E-05	6.00E-06
2582	257558.17	4086038.35	1.67E-05	2.41E-04	1.78E-04	1.78E-04	9.92E-05	2.53E-06	3.68E-05	2.78E-05	2.78E-05	1.53E-05	1.38E-06	1.99E-05	1.24E-05	1.24E-05	6.12E-06
2583	257535.76	4086030.16	1.70E-05	2.46E-04	1.81E-04	1.81E-04	1.01E-04	2.58E-06	3.75E-05	2.83E-05	2.83E-05	1.56E-05	1.40E-06	2.03E-05	1.26E-05	1.26E-05	6.24E-06
2584	257513.35	4086021.98	1.73E-05	2.50E-04	1.84E-04	1.84E-04	1.03E-04	2.63E-06	3.81E-05	2.88E-05	2.88E-05	1.58E-05	1.43E-06	2.06E-05	1.28E-05	1.28E-05	6.34E-06
2585	257490.94	4086013.79	1.76E-05	2.54E-04	1.87E-04	1.87E-04	1.04E-04	2.67E-06	3.87E-05	2.92E-05	2.92E-05	1.61E-05	1.45E-06	2.09E-05	1.30E-05	1.30E-05	6.44E-06
2586	257468.53	4086005.6	1.78E-05	2.58E-04	1.90E-04	1.90E-04	1.06E-04	2.70E-06	3.92E-05	2.96E-05	2.96E-05	1.63E-05	1.47E-06	2.12E-05	1.32E-05	1.32E-05	6.53E-06
2587	257446.13	4085997.42	1.80E-05	2.61E-04	1.92E-04	1.92E-04	1.07E-04	2.74E-06	3.98E-05	3.00E-05	3.00E-05	1.65E-05	1.49E-06	2.15E-05	1.34E-05	1.34E-05	6.61E-06
2588	257423.72	4085989.23	1.83E-05	2.64E-04	1.95E-04	1.95E-04	1.09E-04	2.77E-06	4.02E-05	3.04E-05	3.04E-05	1.67E-05	1.51E-06	2.18E-05	1.35E-05	1.35E-05	6.69E-06
2589	257401.31	4085981.05	1.85E-05	2.67E-04	1.97E-04	1.97E-04	1.10E-04	2.80E-06	4.07E-05	3.07E-05	3.07E-05	1.69E-05	1.52E-06	2.20E-05	1.37E-05	1.37E-05	6.77E-06
2590	257378.9	4085972.86	1.87E-05	2.70E-04	1.99E-04	1.99E-04	1.11E-04	2.83E-06	4.11E-05	3.11E-05	3.11E-05	1.71E-05	1.54E-06	2.23E-05	1.38E-05	1.38E-05	6.85E-06
2591	257356.49	4085964.68	1.89E-05	2.73E-04	2.01E-04	2.01E-04	1.12E-04	2.86E-06	4.16E-05	3.14E-05	3.14E-05	1.73E-05	1.56E-06	2.25E-05	1.40E-05	1.40E-05	6.92E-06
2592	257334.09	4085956.49	1.91E-05	2.76E-04	2.03E-04	2.03E-04	1.13E-04	2.90E-06	4.20E-05	3.18E-05	3.18E-05	1.75E-05	1.57E-06	2.27E-05	1.41E-05	1.41E-05	6.99E-06
2593	257311.68	4085948.3	1.93E-05	2.79E-04	2.06E-04	2.06E-04	1.15E-04	2.93E-06	4.25E-05	3.21E-05	3.21E-05	1.76E-05	1.59E-06	2.30E-05	1.43E-05	1.43E-05	7.07E-06
2594	257289.27	4085940.12	1.95E-05	2.82E-04	2.08E-04	2.08E-04	1.16E-04	2.96E-06	4.30E-05	3.24E-05	3.24E-05	1.78E-05	1.61E-06	2.32E-05	1.44E-05	1.44E-05	7.15E-06
2595	257266.86	4085931.93	1.97E-05	2.85E-04	2.10E-04	2.10E-04	1.17E-04	2.99E-06	4.34E-05	3.28E-05	3.28E-05	1.80E-05	1.62E-06	2.35E-05	1.46E-05	1.46E-05	7.22E-06
2596	257244.45	4085923.75	1.99E-05	2.87E-04	2.12E-04	2.12E-04	1.18E-04	3.01E-06	4.38E-05	3.31E-05	3.31E-05	1.82E-05	1.64E-06	2.37E-05	1.47E-05	1.47E-05	7.28E-06
2597	257222.05	4085915.56	2.00E-05	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.04E-06	4.41E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.38E-05	1.48E-05	1.48E-05	7.33E-06
2598	257199.64	4085907.37	2.01E-05	2.91E-04	2.14E-04	2.14E-04	1.19E-04	3.05E-06	4.43E-05	3.34E-05	3.34E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.36E-06
2599	257177.23	4085899.19	2.01E-05	2.91E-04	2.15E-04	2.15E-04	1.20E-04	3.05E-06	4.43E-05	3.35E-05	3.35E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.38E-06
2600	257154.82	4085891	2.01E-05	2.91E-04	2.14E-04	2.14E-04	1.19E-04	3.05E-06	4.43E-05	3.35E-05	3.35E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.37E-06
2601	257132.41	4085882.82	2.00E-05	2.90E-04	2.14E-04	2.14E-04	1.19E-04	3.04E-06	4.42E-05	3.34E-05	3.34E-05	1.83E-05	1.65E-06	2.39E-05	1.48E-05	1.48E-05	7.35E-06
2602	257110.01	4085874.63	2.00E-05	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.03E-06	4.40E-05	3.32E-05	3.32E-05	1.83E-05	1.64E-06	2.38E-05	1.48E-05	1.48E-05	7.32E-06
2603	257087.6	4085866.45	1.99E-05	2.87E-04	2.12E-04	2.12E-04	1.18E-04	3.01E-06	4.37E-05	3.30E-05	3.30E-05	1.82E-05	1.64E-06	2.37E-05	1.47E-05	1.47E-05	7.28E-06
2604	257065.19	4085858.26	1.97E-05	2.85E-04	2.10E-04	2.10E-04	1.17E-04	3.00E-06	4.35E-05	3.28E-05	3.28E-05	1.81E-05	1.63E-06	2.35E-05	1.46E-05	1.46E-05	7.23E-06
2605	257042.78	4085850.07	1.96E-05	2.84E-04	2.09E-04	2.09E-04	1.17E-04	2.98E-06	4.32E-05	3.27E-05	3.27E-05	1.80E-05	1.62E-06	2.34E-05	1.45E-05	1.45E-05	7.19E-06
2606	257020.37	4085841.89	1.95E-05	2.82E-04	2.08E-04	2.08E-04	1.16E-04	2.96E-06	4.30E-05	3.25E-05	3.25E-05	1.78E-05	1.61E-06	2.33E-05	1.44E-05	1.44E-05	7.15E-06
2607	256997.97	4085833.7	1.94E-05	2.80E-04	2.07E-04	2.07E-04	1.15E-04	2.94E-06	4.27E-05	3.23E-05	3.23E-05	1.77E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.10E-06
2608	256975.56	4085825.52	1.92E-05	2.78E-04	2.05E-04	2.05E-04	1.14E-04	2.92E-06	4.24E-05	3.20E-05	3.20E-05	1.76E-05	1.59E-06	2.29E-05	1.43E-05	1.43E-05	7.06E-06
2609	256943.17	4085795.66	1.94E-05	2.80E-04	2.07E-04	2.07E-04	1.15E-04	2.94E-06	4.27E-05	3.23E-05	3.23E-05	1.77E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.11E-06
2610	256933.19	4085773.99	1.96E-05	2.84E-04	2.09E-04	2.09E-04	1.17E-04	2.98E-06	4.33E-05	3.27E-05	3.27E-05	1.80E-05	1.62E-06	2.34E-05	1.45E-05	1.45E-05	7.20E-06
2611	256923.22	4085752.32	1.99E-05	2.87E-04	2.12E-04	2.12E-04	1.18E-04	3.01E-06	4.38E-05	3.31E-05	3.31E-05	1.82E-05	1.64E-06	2.37E-05	1.47E-05	1.47E-05	7.28E-06
2612	256913.24	4085730.65	2.00E-05	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.03E-06	4.40E-05	3.32E-05	3.32E-05	1.83E-05	1.65E-06	2.38E-05	1.48E-05	1.48E-05	7.32E-06
2613	256903.26	4085708.99	2.00E-05	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.03E-06	4.40E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.38E-05	1.48E-05	1.48E-05	7.33E-06
2614	256893.28	4085687.32	1.99E-05	2.88E-04	2.12E-04	2.12E-04	1.18E-04	3.02E-06	4.38E-05	3.31E-05	3.31E-05	1.82E-05	1.64E-06	2.37E-05	1.47E-05	1.47E-05	7.30E-06
2615	256883.3	4085665.65	1.97E-05	2.85E-04	2.10E-04	2.10E-04	1.17E-04	2.99E-06	4.34E-05	3.28E-05	3.28E-05	1.80E-05	1.62E-06	2.35E-05	1.46E-05	1.46E-05	7.22E-06
2616	256873.32	4085643.98	1.94E-05	2.80E-04	2.07E-04	2.07E-04	1.15E-04	2.94E-06	4.27E-05	3.23E-05	3.23E-05	1.77E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.10E-06
2617	256863.35	4085622.31	1.89E-05	2.74E-04	2.02E-04	2.02E-04	1.13E-04	2.87E-06	4.17E-05	3.15E-05	3.15E-05	1.73E-05	1.56E-06	2.26E-05	1.40E-05	1.40E-05	6.94E-06
2618	256853.37	4085600.64	1.84E-05	2.66E-04	1.96E-04	1.96E-04	1.09E-04	2.79E-06	4.05E-05	3.06E-05	3.06E-05	1.68E-05	1.51E-06	2.19E-05	1.36E-05	1.36E-05	6.74E-06
2619	256843.39	4085578.97	1.77E-05	2.56E-04	1.89E-04	1.89E-04	1.05E-04	2.69E-06	3.90E-05	2.95E-05	2.95E-05	1.62E-05	1.46E-06	2.11E-05	1.31E-05	1.31E-05	6.49E-06
2620	256833.41	4085557.3	1.69E-05	2.45E-04	1.81E-04	1.81E-04	1.01E-04	2.57E-06	3.73E-05	2.82E-05	2.82E-05	1.55E-05	1.40E-06	2.02E-05	1.25E-05	1.25E-05	6.21E-06
2621	256823.43	4085535.63	1.61E-05	2.33E-04	1.71E-04	1.71E-04	9.56E-05	2.44E-06	3.54E-05	2.68E-05	2.68E-05	1.47E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.89E-06

2622	256813.45	4085513.96	1.52E-05	2.19E-04	1.62E-04	1.62E-04	9.01E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.81E-05	1.12E-05	1.12E-05	5.56E-06
2623	256803.47	4085492.29	1.42E-05	2.06E-04	1.52E-04	1.52E-04	8.45E-05	2.16E-06	3.13E-05	2.37E-05	2.37E-05	1.30E-05	1.17E-06	1.69E-05	1.05E-05	1.05E-05	5.21E-06
2624	256793.5	4085470.62	1.33E-05	1.92E-04	1.41E-04	1.41E-04	7.89E-05	2.01E-06	2.92E-05	2.21E-05	2.21E-05	1.21E-05	1.09E-06	1.58E-05	9.83E-06	9.83E-06	4.86E-06
2625	256783.52	4085448.95	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.15E-06	9.15E-06	4.53E-06
2626	256773.54	4085427.29	1.15E-05	1.66E-04	1.23E-04	1.23E-04	6.83E-05	1.74E-06	2.53E-05	1.91E-05	1.91E-05	1.05E-05	9.48E-07	1.37E-05	8.51E-06	8.51E-06	4.21E-06
2627	256763.56	4085405.62	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.37E-05	1.63E-06	2.36E-05	1.78E-05	1.78E-05	9.81E-06	8.84E-07	1.28E-05	7.94E-06	7.94E-06	3.93E-06
2628	256753.58	4085383.95	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.96E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.18E-06	8.27E-07	1.20E-05	7.43E-06	7.43E-06	3.68E-06
2629	256743.6	4085362.28	9.45E-06	1.37E-04	1.01E-04	1.01E-04	5.62E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.65E-06	7.79E-07	1.13E-05	7.00E-06	7.00E-06	3.46E-06
2630	256733.63	4085340.61	8.96E-06	1.30E-04	9.55E-05	9.55E-05	5.32E-05	1.36E-06	1.97E-05	1.49E-05	1.49E-05	8.20E-06	7.38E-07	1.07E-05	6.63E-06	6.63E-06	3.28E-06
2631	256723.65	4085318.94	8.54E-06	1.24E-04	9.10E-05	9.10E-05	5.07E-05	1.30E-06	1.88E-05	1.42E-05	1.42E-05	7.81E-06	7.04E-07	1.02E-05	6.32E-06	6.32E-06	3.13E-06
2632	256713.67	4085297.27	8.19E-06	1.18E-04	8.73E-05	8.73E-05	4.87E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.49E-06	6.75E-07	9.76E-06	6.06E-06	6.06E-06	3.00E-06
2633	256703.69	4085275.6	7.88E-06	1.14E-04	8.40E-05	8.40E-05	4.69E-05	1.20E-06	1.74E-05	1.31E-05	1.31E-05	7.21E-06	6.50E-07	9.40E-06	5.84E-06	5.84E-06	2.89E-06
2634	256693.71	4085253.93	7.61E-06	1.10E-04	8.12E-05	8.12E-05	4.53E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.97E-06	6.28E-07	9.08E-06	5.64E-06	5.64E-06	2.79E-06
2635	256683.73	4085232.26	7.38E-06	1.07E-04	7.86E-05	7.86E-05	4.38E-05	1.12E-06	1.63E-05	1.23E-05	1.23E-05	6.75E-06	6.08E-07	8.79E-06	5.46E-06	5.46E-06	2.70E-06
2636	256673.76	4085210.59	7.17E-06	1.04E-04	7.64E-05	7.64E-05	4.26E-05	1.09E-06	1.58E-05	1.19E-05	1.19E-05	6.56E-06	5.91E-07	8.55E-06	5.31E-06	5.31E-06	2.63E-06
2637	257602.98	4086054.72	1.60E-05	2.32E-04	1.71E-04	1.71E-04	9.53E-05	2.43E-06	3.53E-05	2.67E-05	2.67E-05	1.47E-05	1.32E-06	1.91E-05	1.19E-05	1.19E-05	5.88E-06
2638	257627.26	4086053.64	1.59E-05	2.31E-04	1.70E-04	1.70E-04	9.47E-05	2.42E-06	3.51E-05	2.65E-05	2.65E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.84E-06
2639	257651.55	4086052.57	1.58E-05	2.29E-04	1.69E-04	1.69E-04	9.40E-05	2.40E-06	3.49E-05	2.63E-05	2.63E-05	1.45E-05	1.30E-06	1.89E-05	1.17E-05	1.17E-05	5.80E-06
2640	257675.83	4086051.49	1.57E-05	2.27E-04	1.67E-04	1.67E-04	9.32E-05	2.38E-06	3.45E-05	2.61E-05	2.61E-05	1.43E-05	1.29E-06	1.87E-05	1.16E-05	1.16E-05	5.75E-06
2641	257700.11	4086050.42	1.55E-05	2.24E-04	1.65E-04	1.65E-04	9.21E-05	2.35E-06	3.42E-05	2.58E-05	2.58E-05	1.42E-05	1.28E-06	1.85E-05	1.15E-05	1.15E-05	5.68E-06
2642	257724.39	4086049.34	1.53E-05	2.21E-04	1.63E-04	1.63E-04	9.09E-05	2.32E-06	3.37E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.61E-06
2643	257748.67	4086048.27	1.51E-05	2.18E-04	1.61E-04	1.61E-04	8.95E-05	2.29E-06	3.32E-05	2.51E-05	2.51E-05	1.38E-05	1.24E-06	1.80E-05	1.12E-05	1.12E-05	5.52E-06
2644	257772.96	4086047.19	1.48E-05	2.14E-04	1.58E-04	1.58E-04	8.80E-05	2.25E-06	3.26E-05	2.46E-05	2.46E-05	1.35E-05	1.22E-06	1.76E-05	1.10E-05	1.10E-05	5.42E-06
2645	257797.24	4086046.11	1.45E-05	2.10E-04	1.55E-04	1.55E-04	8.62E-05	2.20E-06	3.20E-05	2.42E-05	2.42E-05	1.33E-05	1.20E-06	1.73E-05	1.07E-05	1.07E-05	5.32E-06
2646	257821.52	4086045.04	1.42E-05	2.05E-04	1.51E-04	1.51E-04	8.44E-05	2.16E-06	3.13E-05	2.36E-05	2.36E-05	1.30E-05	1.17E-06	1.69E-05	1.05E-05	1.05E-05	5.21E-06
2647	257845.8	4086043.96	1.39E-05	2.01E-04	1.48E-04	1.48E-04	8.25E-05	2.11E-06	3.06E-05	2.31E-05	2.31E-05	1.27E-05	1.14E-06	1.66E-05	1.03E-05	1.03E-05	5.09E-06
2648	257870.08	4086042.89	1.36E-05	1.96E-04	1.45E-04	1.45E-04	8.06E-05	2.06E-06	2.99E-05	2.26E-05	2.26E-05	1.24E-05	1.12E-06	1.62E-05	1.00E-05	1.00E-05	4.97E-06
2649	257894.36	4086041.81	1.33E-05	1.92E-04	1.41E-04	1.41E-04	7.88E-05	2.01E-06	2.92E-05	2.21E-05	2.21E-05	1.21E-05	1.09E-06	1.58E-05	9.82E-06	9.82E-06	4.86E-06
2650	257918.65	4086040.74	1.30E-05	1.88E-04	1.38E-04	1.38E-04	7.71E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.60E-06	9.60E-06	4.75E-06
2651	257942.93	4086039.66	1.27E-05	1.84E-04	1.35E-04	1.35E-04	7.55E-05	1.93E-06	2.80E-05	2.11E-05	2.11E-05	1.16E-05	1.05E-06	1.51E-05	9.41E-06	9.41E-06	4.66E-06
2652	257967.21	4086038.59	1.25E-05	1.80E-04	1.33E-04	1.33E-04	7.40E-05	1.89E-06	2.74E-05	2.07E-05	2.07E-05	1.14E-05	1.03E-06	1.48E-05	9.22E-06	9.22E-06	4.57E-06
2653	257991.49	4086037.51	1.22E-05	1.77E-04	1.30E-04	1.30E-04	7.27E-05	1.86E-06	2.69E-05	2.04E-05	2.04E-05	1.12E-05	1.01E-06	1.46E-05	9.06E-06	9.06E-06	4.48E-06
2654	258015.77	4086036.44	1.20E-05	1.74E-04	1.28E-04	1.28E-04	7.14E-05	1.82E-06	2.65E-05	2.00E-05	2.00E-05	1.10E-05	9.90E-07	1.43E-05	8.90E-06	8.90E-06	4.40E-06
2655	258040.06	4086035.36	1.18E-05	1.71E-04	1.26E-04	1.26E-04	7.01E-05	1.79E-06	2.60E-05	1.96E-05	1.96E-05	1.08E-05	9.73E-07	1.41E-05	8.74E-06	8.74E-06	4.33E-06
2656	258064.34	4086034.28	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.89E-05	1.76E-06	2.55E-05	1.93E-05	1.93E-05	1.06E-05	9.55E-07	1.38E-05	8.58E-06	8.58E-06	4.25E-06
2657	258088.62	4086033.21	1.14E-05	1.64E-04	1.21E-04	1.21E-04	6.75E-05	1.72E-06	2.50E-05	1.89E-05	1.89E-05	1.04E-05	9.36E-07	1.35E-05	8.41E-06	8.41E-06	4.16E-06
2658	258112.9	4086032.13	1.11E-05	1.61E-04	1.18E-04	1.18E-04	6.60E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.16E-07	1.32E-05	8.23E-06	8.23E-06	4.07E-06
2659	258137.18	4086031.06	1.09E-05	1.57E-04	1.16E-04	1.16E-04	6.45E-05	1.65E-06	2.39E-05	1.81E-05	1.81E-05	9.93E-06	8.95E-07	1.29E-05	8.04E-06	8.04E-06	3.98E-06
2660	258161.46	4086029.98	1.06E-05	1.53E-04	1.13E-04	1.13E-04	6.29E-05	1.61E-06	2.33E-05	1.76E-05	1.76E-05	9.68E-06	8.72E-07	1.26E-05	7.83E-06	7.83E-06	3.88E-06
2661	258185.75	4086028.91	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.12E-05	1.56E-06	2.27E-05	1.71E-05	1.71E-05	9.42E-06	8.49E-07	1.23E-05	7.62E-06	7.62E-06	3.77E-06
2662	258210.03	4086027.83	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.95E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.16E-06	8.25E-07	1.19E-05	7.41E-06	7.41E-06	3.67E-06
2663	258234.31	4086026.76	9.73E-06	1.41E-04	1.04E-04	1.04E-04	5.78E-05	1.48E-06	2.14E-05	1.62E-05	1.62E-05	8.90E-06	8.02E-07	1.16E-05	7.20E-06	7.20E-06	3.56E-06
2664	258258.59	4086025.68	9.44E-06	1.37E-04	1.01E-04	1.01E-04	5.61E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.64E-06	7.78E-07	1.13E-05	6.99E-06	6.99E-06	3.46E-06
2665	258282.87	4086024.61	9.17E-06	1.33E-04	9.77E-05	9.77E-05	5.45E-05	1.39E-06	2.02E-05	1.53E-05	1.53E-05	8.39E-06	7.56E-07	1.09E-05	6.79E-06	6.79E-06	3.36E-06
2666	258307.16	4086023.53	8.90E-06	1.29E-04	9.48E-05	9.48E-05	5.29E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.14E-06	7.33E-07	1.06E-05	6.59E-06	6.59E-06	3.26E-06
2667	258331.44	4086022.45	8.63E-06	1.25E-04	9.20E-05	9.20E-05	5.13E-05	1.31E-06	1.90E-05	1.44E-05	1.44E-05	7.89E-06	7.11E-07	1.03E-05	6.39E-06	6.39E-06	3.16E-06
2668	258355.72	4086021.38	8.36E-06	1.21E-04	8.92E-05	8.92E-05	4.97E-05	1.27E-06	1.84E-05	1.39E-05	1.39E-05	7.65E-06	6.89E-07	9.97E-06	6.19E-06	6.19E-06	3.07E-06
2669	258380	4086020.3	8.11E-06	1.17E-04	8.64E-05	8.64E-05	4.82E-05	1.23E-06	1.79E-05	1.35E-05	1.35E-05	7.42E-06	6.68E-07	9.67E-06	6.00E-06	6.00E-06	2.97E-06
2670	258404.28	4086019.23	7.86E-06	1.14E-04	8.38E-05	8.38E-05	4.67E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.19E-06	6.48E-07	9.37E-06	5.82E-06	5.82E-06	2.88E-06
2671	257589.14	4086246.23	1.20E-05	1.73E-04	1.28E-04	1.28E-04	7.11E-05	1.82E-06	2.64E-05	1.99E-05	1.99E-05	1.10E-05	9.87E-07	1.43E-05	8.86E-06	8.86E-06	4.39E-06
2672	257566.45	4086237.94	1.22E-05	1.77E-04	1.30E-04	1.30E-04	7.26E-05	1.85E-06	2.69E-05	2.03E-05	2.03E-05	1.12E-05	1.01E-06	1.46E-05	9.05E-06	9.05E-06	4.48E-06
2673	257543.75	4086229.65	1.25E-05	1.80E-04	1.33E-04	1.33E-04	7.40E-05	1.89E-06	2.74E-05	2.07E-05	2.07E-05	1.14E-05	1.03E-06	1.48E-05	9.22E-06	9.22E-06	4.57E-06
2674	257521.06	4086221.36	1.27E-05	1.83E-04	1.35E-04	1.35E-04	7.54E-05	1.92E-06	2.79E-05	2.11E-05	2.11E-05	1.16E-05	1.05E-06	1.51E-05	9.39E-06	9.39E-06	4.65E-06
2675	257498.37	4086213.07	1.29E-05	1.87E-04	1.37E-04	1.37E-04	7.66E-05	1.96E-06	2.84E-05	2.15E-05	2.15E-05	1.18E-05	1.06E-06	1.54E-05	9.55E-06	9.55E-06	4.73E-06
2676	257475.68	4086204.78	1.31E-05	1.89E-04	1.40E-04	1.40E-04	7.79E-05	1.99E-06	2.89E-05	2.18E-05	2.18E-05	1.20E-05	1.08E-06	1.56E-05	9.70E-06	9.70E-06	4.80E-06
2677	257452.98	4086196.49	1.33E-05	1.92E-04	1.42E-04	1.42E-04	7.90E-05	2.02E-06	2.93E-05	2.21E-05	2.21E-05	1.22E-05	1.10E-06	1.58E-05	9.84E-06	9.84E-06	4.87E-06
2678	257430.29	4086188.21	1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.01E-05	2.05E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.61E-05	9.98E-06	9.98E-06	4.94E-06
2679	257407.6	4086179.92	1.36E-05	1.97E-04	1.45E-04	1.45E-04	8.11E-05	2.07E-06	3.01E-05	2.27E-05	2.27E-05	1.25E-05	1.12E-06	1.63E-05	1.01E-05	1.01E-05	5.00E-06
2680	257384.91	4086171.63	1.38E-05	2.00E-04	1.47E-04	1.47E-04	8.20E-05	2.09E-06	3.04E-05	2.30E-05	2.30E-05	1.26E-05	1.14E-06	1.65E-05	1.02E-05	1.02E-05	5.06E-06
2681	257362.21	4086163.34	1.39E-05	2.02E-04	1.49E-04	1.49E-04	8.29E-05	2.12E-06	3.07E-05	2.32E-05	2.32E-05	1.28E-05	1.15E-06	1.66E-05	1.03E-05	1.03E-05	5.11E-06
2682	257339.52	4086155.05	1.41E-05	2.04E-04	1.50E-04	1.50E-04	8.38E-05	2.14E-06	3.11E-05	2.35E-05	2.35E-05	1.29E-05	1.16E-06	1.68E-05	1.04E-05	1.04E-05	5.17E-06
2683	257316.83	4086146.76	1.43E-05	2.06E-04	1.52E-04	1.52E-04	8.48E-05	2.16E-06	3.14E-05	2.37E-05	2.37E-05	1.31E-05	1.18E-06	1.70E-05	1.06E-05	1.06E-05	5.23E-06
2684	257294.14	4086138.47	1.44E-05	2.08E-04	1.54E-04	1.54E-04	8.57E-05	2.19E-06	3.18E-05	2.40E-05	2.40E-05	1.32E-05	1.19E-06	1.72E-05	1.07E-05	1.07E-05	5.28E-06
2685	257271.44	4086130.18	1.46E-05	2.10E-04	1.55E-04	1.55E-04	8.65E-05	2.21E-06	3.21E-05	2.42E-05	2.42E-05	1.33E-05	1.20E-06	1.73E-05	1.08E-05	1.08E-05	5.33E-06
2686	257248.75	4086121.89	1.47E-05	2.13E-04	1.57E-04	1.57E-04	8.73E-05	2.23E-06	3.24E-05	2.45E-05	2.45E-05	1.34E-05	1.21E-06	1.75E-05	1.09E-05	1.09E-05	5.39E-06
2687	257226.06	4086113.6	1.48E-05	2.15E-04	1.58E-04	1.58E-04	8.82E-05	2.25E-06	3.27E-05	2.47E-05	2.47E-05	1.36E-05	1.22E-06	1.77E-05	1.10E-05	1.10E-05	5.44E-06
2688	257203.37	4086105.31	1.50E-05	2.17E-04	1.60E-04	1.60E-04	8.91E-05	2.27E-06	3.30E-05	2.49E-05	2.49E-05	1.37E-05	1.24E-06	1.79E-05	1.11E-05	1.11E-05	5.49E-06
2689	257180.67	4086097.02	1.51E-05	2.19E-04	1.61E-04	1.61E-04	8.99E-05	2.29E-06	3.33E-05	2.52E-05	2.52E-05	1.38E-05	1.25E-06	1.80E-05	1.12E-05	1.12E-05	5.54E-06
2690	257157.98	4086088.73	1.52E-05	2.20E-04	1.62E-04	1.62E-04	9.06E-05	2.31E-06	3.36E-05	2.54E-05	2.54E-05	1.39E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.59E-06
2691	257135.29	4086080.44	1.53E-05	2.22E-04	1.64E-04	1.64E-04	9.12E-05	2.33E-06	3.38E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.83E-05	1.14E-05	1.14E-05	5.62E-06
2692	257112.6	4086072.15	1.54E-05	2.23E-04	1.64E-04	1.64E-04	9.15E-05	2.34E-06	3.39E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.65E-06
2693	257089.9	4086063.86	1.54E-05	2.23E-04	1.65E-04	1.65E-04	9.18E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.66E-06
2694	257067.21	4086055.57	1.54E-05	2.23E-04	1.65E-04	1.65E-04	9.18E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.66E-06
2695	257044.52	4086047.28	1.54E-05	2.23E-04	1.65E-04	1.65E-04	9.17E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.66E-06
2696	257021.83	4086038.99	1.54E-05	2.23E-04	1.64E-04	1.64E-04	9.15E-05	2.34E-06	3.39E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.65E-06
2697	256999.13	4086030.7	1.54E-05	2.22E-04	1.64E-04	1.64E-04	9.13E-05	2.33E-06	3.38E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.83E-05	1.14E-05	1.14E-05	5.63E-06
2698	256976.44	4086022.41	1.53E-05	2.22E-04	1.63E-04	1.63E-04	9.11E-05	2.33E-06	3.38E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.83E-05	1.13E-05	1.13E-05	5.62E-06
2699	256953.75	4086014.12	1.53E-05	2.21E-04	1.63E-04	1.63E-04	9.09E-05	2.32E-06	3.37E-05	2.54E-05	2.54E-05	1.40E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.60E-06
2700	256931.06	4086005.83	1.53E-05	2.21E-04	1.63E-04	1.63E-04	9.07E-05	2.32E-06	3.36E-05	2.54E-05	2.54E-05	1.40E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.59E-06
2701	256908.36	4085997.54	1.52E-05	2.20E-04	1.62E-04	1.62E-04	9.05E-05	2.31E-06	3.36E-05	2.53E-05	2.53E-05	1.39E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.58E-06
2702	256885.67	4085989.25	1.52E-05	2.20E-04	1.62E-04	1.62E-04	9.03E-05	2.31E-06	3.35E-05	2.53E-05	2.53E-05	1.39E-05	1.25E-06	1.81E-05	1.13E-05	1.13E-05	5.57E-06
2703	256862.98	4085980.96	1.52E-05	2.19E-04	1.62E-04	1.62E-04	9.02E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.81E-05	1.12E-05	1.12E-05	5.56E-06
2704	256840.29	4085972.67	1.51E-05	2.19E-04	1.61E-04	1.61E-04	9.00E-05	2.30E-06	3.33E-05	2.52E-05	2.52E-05	1.38E-05	1.25E-06	1.80E-05	1.12E-05	1.12E-05	5.55E-06
2705	256807.49	4085942.44	1.53E-05	2.22E-04	1.64E-04	1.64E-04	9.12E-05	2.33E-06	3.38E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.83E-05	1.14E-05	1.14E-05	5.62E-06
2706	256797.38	4085920.49	1.56E-05	2.25E-04	1.66E-04	1.66E-04	9.25E-05	2.36E-06	3.43E-05	2.59E-05	2.59E-05	1.42E-05	1.28E-06	1.86E-05	1.15E-05	1.15E-05	5.71E-06
2707	256787.28	4085898.55	1.58E-05	2.28E-04	1.68E-04	1.68E-04	9.38E-05	2.39E-06	3.48E-05	2.63E-05	2.63E-05	1.44E-05	1.30E-06	1.88E-05	1.17E-05	1.17E-05	5.78E-06
2708	256777.17	4085876.61	1.59E-05	2.31E-04	1.70E-04	1.70E-04	9.48E-05	2.42E-06	3.51E-05	2.65E-05	2.65E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.84E-06
2709	256767.07	4085854.66	1.61E-05	2.32E-04	1.71E-04	1.71E-04	9.55E-05	2.44E-06	3.54E-05	2.67E-05	2.67E-05	1.47E-05	1.32E-06	1.92E-05	1.19E-05	1.19E-05	5.89E-06
2710	256756.96	4085832.72	1.61E-05	2.33E-04	1.72E-04	1.72E-04	9.58E-05	2.45E-06	3.55E-05	2.68E-05	2.68E-05	1.48E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.91E-06
2711	256746.86	4085810.77	1.61E-05	2.33E-04	1.72E-04	1.72E-04	9.58E-05	2.45E-06	3.55E-05	2.68E-05	2.68E-05	1.47E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.91E-06
2712	256736.75	4085788.83	1.60E-05	2.32E-04	1.71E-04	1.71E-04	9.53E-05	2.43E-06	3.53E-05	2.67E-05	2.67E-05	1.47E-05	1.32E-06	1.91E-05	1.19E-05	1.19E-05	5.88E-06
2713	256726.65	4085766.88	1.59E-05	2.30E-04	1.69E-04	1.69E-04	9.43E-05	2.41E-06	3.50E-05	2.64E-05	2.64E-05	1.45E-05	1.31E-06	1.89E-05	1.18E-05	1.18E-05	5.82E-06
2714	256716.54	4085744.94	1.56E-05	2.26E-04	1.67E-04	1.67E-04	9.28E-05	2.37E-06	3.44E-05	2.60E-05	2.60E-05	1.43E-05	1.29E-06	1.86E-05	1.16E-05	1.16E-05	5.73E-06
2715	256706.44	4085722.99	1.53E-05	2.21E-04	1.63E-04	1.63E-04	9.09E-05	2.32E-06	3.37E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.61E-06
2716	256696.33	4085701.05	1.49E-05	2.16E-04	1.59E-04	1.59E-04	8.86E-05	2.26E-06	3.29E-05	2.48E-05	2.48E-05	1.36E-05	1.23E-06	1.78E-05	1.10E-05	1.10E-05	5.47E-06
2717	256686.23	4085679.11	1.44E-05	2.09E-04	1.54E-04	1.54E-04	8.58E-05	2.19E-06	3.18E-05	2.40E-05	2.40E-05	1.32E-05	1.19E-06	1.72E-05	1.07E-05	1.07E-05	5.29E-06
2718	256676.12	4085657.16	1.39E-05	2.01E-04	1.48E-04	1.48E-04	8.25E-05	2.11E-06	3.06E-05	2.31E-05	2.31E-05	1.27E-05	1.14E-06	1.65E-05	1.03E-05	1.03E-05	5.09E-06
2719	256666.02	4085635.22	1.33E-05	1.92E-04	1.41E-04	1.41E-04	7.88E-05	2.01E-06	2.92E-05	2.21E-05	2.21E-05	1.21E-05	1.09E-06	1.58E-05	9.82E-06	9.82E-06	4.86E-06
2720	256655.91	4085613.27	1.26E-05	1.82E-04	1.34E-04	1.34E-04	7.48E-05	1.91E-06	2.77E-05	2.10E-05	2.10E-05	1.15E-05	1.04E-06	1.50E-05	9.33E-06	9.33E-06	4.62E-06
2721	256645.81	4085591.33	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.07E-05	1.81E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.81E-07	1.42E-05	8.81E-06	8.81E-06	4.36E-06
2722	256635.7	4085569.38	1.12E-05	1.62E-04	1.19E-04	1.19E-04	6.65E-05	1.70E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.22E-07	1.33E-05	8.28E-06	8.28E-06	4.10E-06
2723	256625.6	4085547.44	1.05E-05	1.52E-04	1.12E-04	1.12E-04	6.23E-05	1.59E-06	2.31E-05	1.74E-05	1.74E-05	9.59E-06	8.64E-07	1.25E-05	7.76E-06	7.76E-06	3.84E-06
2724	256615.49	4085525.5	9.80E-06	1.42E-04	1.05E-04	1.05E-04	5.83E-05	1.49E-06	2.16E-05	1.63E-05	1.63E-05	8.97E-06	8.08E-07	1.17E-05	7.26E-06	7.26E-06	3.59E-06
2725	256605.39	4085503.55	9.17E-06	1.33E-04	9.78E-05	9.78E-05	5.45E-05	1.39E-06	2.02E-05	1.53E-05	1.53E-05	8.39E-06	7.56E-07	1.09E-05	6.79E-06	6.79E-06	3.36E-06
2726	256595.28	4085481.61	8.60E-06	1.24E-04	9.17E-05	9.17E-05	5.11E-05	1.31E-06	1.90E-05	1.43E-05	1.43E-05	7.87E-06	7.09E-07	1.03E-05	6.37E-06	6.37E-06	3.15E-06

2727	256585.18	4085459.66	8.10E-06	1.17E-04	8.64E-05	8.64E-05	4.82E-05	1.23E-06	1.79E-05	1.35E-05	1.35E-05	7.41E-06	6.68E-07	9.66E-06	6.00E-06	6.00E-06	2.97E-06
2728	256575.07	4085437.72	7.67E-06	1.11E-04	8.18E-05	8.18E-05	4.56E-05	1.16E-06	1.69E-05	1.28E-05	1.28E-05	7.02E-06	6.32E-07	9.15E-06	5.68E-06	5.68E-06	2.81E-06
2729	256564.97	4085415.77	7.31E-06	1.06E-04	7.79E-05	7.79E-05	4.34E-05	1.11E-06	1.61E-05	1.22E-05	1.22E-05	6.69E-06	6.02E-07	8.71E-06	5.41E-06	5.41E-06	2.68E-06
2730	256554.86	4085393.83	7.01E-06	1.01E-04	7.47E-05	7.47E-05	4.16E-05	1.06E-06	1.54E-05	1.17E-05	1.17E-05	6.41E-06	5.77E-07	8.35E-06	5.19E-06	5.19E-06	2.57E-06
2731	256544.76	4085371.88	6.75E-06	9.76E-05	7.20E-05	7.20E-05	4.01E-05	1.02E-06	1.49E-05	1.12E-05	1.12E-05	6.18E-06	5.56E-07	8.05E-06	5.00E-06	5.00E-06	2.47E-06
2732	256534.65	4085349.94	6.53E-06	9.44E-05	6.96E-05	6.96E-05	3.88E-05	9.91E-07	1.44E-05	1.09E-05	1.09E-05	5.97E-06	5.38E-07	7.78E-06	4.83E-06	4.83E-06	2.39E-06
2733	256524.54	4085328	6.33E-06	9.16E-05	6.75E-05	6.75E-05	3.76E-05	9.61E-07	1.40E-05	1.05E-05	1.05E-05	5.80E-06	5.22E-07	7.55E-06	4.69E-06	4.69E-06	2.32E-06
2734	256514.44	4085306.05	6.16E-06	8.91E-05	6.56E-05	6.56E-05	3.66E-05	9.35E-07	1.36E-05	1.02E-05	1.02E-05	5.63E-06	5.08E-07	7.34E-06	4.56E-06	4.56E-06	2.26E-06
2735	256504.33	4085284.11	5.99E-06	8.67E-05	6.39E-05	6.39E-05	3.56E-05	9.09E-07	1.32E-05	9.97E-06	9.97E-06	5.48E-06	4.94E-07	7.14E-06	4.44E-06	4.44E-06	2.20E-06
2736	256494.23	4085262.16	5.84E-06	8.45E-05	6.23E-05	6.23E-05	3.47E-05	8.86E-07	1.29E-05	9.72E-06	9.72E-06	5.34E-06	4.81E-07	6.96E-06	4.32E-06	4.32E-06	2.14E-06
2737	256484.12	4085240.22	5.70E-06	8.24E-05	6.07E-05	6.07E-05	3.39E-05	8.65E-07	1.26E-05	9.49E-06	9.49E-06	5.21E-06	4.70E-07	6.79E-06	4.22E-06	4.22E-06	2.09E-06
2738	256474.02	4085218.27	5.57E-06	8.06E-05	5.94E-05	5.94E-05	3.31E-05	8.46E-07	1.23E-05	9.28E-06	9.28E-06	5.10E-06	4.59E-07	6.64E-06	4.13E-06	4.13E-06	2.04E-06
2739	257611.83	4086254.52	1.17E-05	1.69E-04	1.25E-04	1.25E-04	6.96E-05	1.78E-06	2.58E-05	1.95E-05	1.95E-05	1.07E-05	9.65E-07	1.40E-05	8.67E-06	8.67E-06	4.29E-06
2740	257636.11	4086253.45	1.16E-05	1.67E-04	1.23E-04	1.23E-04	6.88E-05	1.76E-06	2.55E-05	1.93E-05	1.93E-05	1.06E-05	9.54E-07	1.38E-05	8.57E-06	8.57E-06	4.24E-06
2741	257660.4	4086252.37	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.79E-05	1.74E-06	2.52E-05	1.90E-05	1.90E-05	1.05E-05	9.42E-07	1.36E-05	8.47E-06	8.47E-06	4.19E-06
2742	257684.68	4086251.3	1.13E-05	1.63E-04	1.20E-04	1.20E-04	6.70E-05	1.71E-06	2.48E-05	1.88E-05	1.88E-05	1.03E-05	9.29E-07	1.34E-05	8.35E-06	8.35E-06	4.13E-06
2743	257708.96	4086250.22	1.11E-05	1.61E-04	1.18E-04	1.18E-04	6.60E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.15E-07	1.32E-05	8.23E-06	8.23E-06	4.07E-06
2744	257733.24	4086249.15	1.09E-05	1.58E-04	1.16E-04	1.16E-04	6.49E-05	1.66E-06	2.41E-05	1.82E-05	1.82E-05	1.00E-05	9.01E-07	1.30E-05	8.09E-06	8.09E-06	4.01E-06
2745	257757.52	4086248.07	1.07E-05	1.55E-04	1.15E-04	1.15E-04	6.39E-05	1.63E-06	2.37E-05	1.79E-05	1.79E-05	9.83E-06	8.86E-07	1.28E-05	7.96E-06	7.96E-06	3.94E-06
2746	257781.8	4086246.99	1.06E-05	1.53E-04	1.13E-04	1.13E-04	6.28E-05	1.60E-06	2.33E-05	1.76E-05	1.76E-05	9.67E-06	8.71E-07	1.26E-05	7.82E-06	7.82E-06	3.87E-06
2747	257806.09	4086245.92	1.04E-05	1.50E-04	1.11E-04	1.11E-04	6.16E-05	1.57E-06	2.29E-05	1.73E-05	1.73E-05	9.49E-06	8.55E-07	1.24E-05	7.68E-06	7.68E-06	3.80E-06
2748	257830.37	4086244.84	1.02E-05	1.47E-04	1.09E-04	1.09E-04	6.05E-05	1.54E-06	2.24E-05	1.69E-05	1.69E-05	9.31E-06	8.39E-07	1.21E-05	7.54E-06	7.54E-06	3.73E-06
2749	257854.65	4086243.77	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.94E-05	1.52E-06	2.20E-05	1.66E-05	1.66E-05	9.15E-06	8.24E-07	1.19E-05	7.41E-06	7.41E-06	3.67E-06
2750	257878.93	4086242.69	9.82E-06	1.42E-04	1.05E-04	1.05E-04	5.83E-05	1.49E-06	2.16E-05	1.63E-05	1.63E-05	8.98E-06	8.09E-07	1.17E-05	7.27E-06	7.27E-06	3.60E-06
2751	257903.21	4086241.62	9.64E-06	1.39E-04	1.03E-04	1.03E-04	5.73E-05	1.46E-06	2.12E-05	1.60E-05	1.60E-05	8.82E-06	7.94E-07	1.15E-05	7.14E-06	7.14E-06	3.53E-06
2752	257927.5	4086240.54	9.47E-06	1.37E-04	1.01E-04	1.01E-04	5.63E-05	1.44E-06	2.09E-05	1.58E-05	1.58E-05	8.66E-06	7.81E-07	1.13E-05	7.01E-06	7.01E-06	3.47E-06
2753	257951.78	4086239.47	9.30E-06	1.35E-04	9.92E-05	9.92E-05	5.53E-05	1.41E-06	2.05E-05	1.55E-05	1.55E-05	8.51E-06	7.67E-07	1.11E-05	6.89E-06	6.89E-06	3.41E-06
2754	257976.06	4086238.39	9.14E-06	1.32E-04	9.74E-05	9.74E-05	5.43E-05	1.39E-06	2.01E-05	1.52E-05	1.52E-05	8.36E-06	7.53E-07	1.09E-05	6.77E-06	6.77E-06	3.35E-06
2755	258000.34	4086237.32	8.98E-06	1.30E-04	9.57E-05	9.57E-05	5.33E-05	1.36E-06	1.98E-05	1.49E-05	1.49E-05	8.21E-06	7.40E-07	1.07E-05	6.65E-06	6.65E-06	3.29E-06
2756	258024.62	4086236.24	8.81E-06	1.27E-04	9.39E-05	9.39E-05	5.24E-05	1.34E-06	1.94E-05	1.47E-05	1.47E-05	8.06E-06	7.26E-07	1.05E-05	6.53E-06	6.53E-06	3.23E-06
2757	258048.9	4086235.16	8.65E-06	1.25E-04	9.22E-05	9.22E-05	5.14E-05	1.31E-06	1.91E-05	1.44E-05	1.44E-05	7.91E-06	7.13E-07	1.03E-05	6.40E-06	6.40E-06	3.17E-06
2758	258073.19	4086234.09	8.48E-06	1.23E-04	9.04E-05	9.04E-05	5.04E-05	1.29E-06	1.87E-05	1.41E-05	1.41E-05	7.76E-06	6.99E-07	1.01E-05	6.28E-06	6.28E-06	3.11E-06
2759	258097.47	4086233.01	8.32E-06	1.20E-04	8.87E-05	8.87E-05	4.94E-05	1.26E-06	1.83E-05	1.38E-05	1.38E-05	7.61E-06	6.86E-07	9.92E-06	6.16E-06	6.16E-06	3.05E-06
2760	258121.75	4086231.94	8.18E-06	1.18E-04	8.72E-05	8.72E-05	4.86E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.48E-06	6.74E-07	9.75E-06	6.06E-06	6.06E-06	3.00E-06
2761	258146.03	4086230.86	8.02E-06	1.16E-04	8.55E-05	8.55E-05	4.77E-05	1.22E-06	1.77E-05	1.34E-05	1.34E-05	7.34E-06	6.61E-07	9.56E-06	5.94E-06	5.94E-06	2.94E-06
2762	258170.31	4086229.79	7.86E-06	1.14E-04	8.38E-05	8.38E-05	4.67E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.19E-06	6.48E-07	9.37E-06	5.82E-06	5.82E-06	2.88E-06
2763	258194.6	4086228.71	7.69E-06	1.11E-04	8.20E-05	8.20E-05	4.57E-05	1.17E-06	1.70E-05	1.28E-05	1.28E-05	7.04E-06	6.34E-07	9.17E-06	5.70E-06	5.70E-06	2.82E-06
2764	258218.88	4086227.64	7.53E-06	1.09E-04	8.03E-05	8.03E-05	4.48E-05	1.14E-06	1.66E-05	1.25E-05	1.25E-05	6.89E-06	6.21E-07	8.98E-06	5.58E-06	5.58E-06	2.76E-06
2765	258243.16	4086226.56	7.37E-06	1.07E-04	7.86E-05	7.86E-05	4.38E-05	1.12E-06	1.62E-05	1.23E-05	1.23E-05	6.74E-06	6.07E-07	8.78E-06	5.46E-06	5.46E-06	2.70E-06
2766	258267.44	4086225.49	7.20E-06	1.04E-04	7.68E-05	7.68E-05	4.28E-05	1.09E-06	1.59E-05	1.20E-05	1.20E-05	6.59E-06	5.94E-07	8.59E-06	5.33E-06	5.33E-06	2.64E-06
2767	258291.72	4086224.41	7.03E-06	1.02E-04	7.50E-05	7.50E-05	4.18E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.44E-06	5.80E-07	8.39E-06	5.21E-06	5.21E-06	2.58E-06
2768	258316	4086223.33	6.86E-06	9.93E-05	7.32E-05	7.32E-05	4.08E-05	1.04E-06	1.51E-05	1.14E-05	1.14E-05	6.28E-06	5.66E-07	8.18E-06	5.08E-06	5.08E-06	2.52E-06
2769	258340.29	4086222.26	6.69E-06	9.68E-05	7.14E-05	7.14E-05	3.98E-05	1.02E-06	1.48E-05	1.11E-05	1.11E-05	6.13E-06	5.52E-07	7.98E-06	4.96E-06	4.96E-06	2.45E-06
2770	258364.57	4086221.18	6.53E-06	9.44E-05	6.96E-05	6.96E-05	3.88E-05	9.91E-07	1.44E-05	1.09E-05	1.09E-05	5.97E-06	5.38E-07	7.78E-06	4.83E-06	4.83E-06	2.39E-06
2771	258388.85	4086220.11	6.36E-06	9.20E-05	6.78E-05	6.78E-05	3.78E-05	9.65E-07	1.40E-05	1.06E-05	1.06E-05	5.82E-06	5.24E-07	7.58E-06	4.71E-06	4.71E-06	2.33E-06
2772	258413.13	4086219.03	6.19E-06	8.96E-05	6.60E-05	6.60E-05	3.68E-05	9.40E-07	1.36E-05	1.03E-05	1.03E-05	5.67E-06	5.11E-07	7.39E-06	4.59E-06	4.59E-06	2.27E-06
2773	257598.33	4086446.16	9.13E-06	1.32E-04	9.73E-05	9.73E-05	5.43E-05	1.39E-06	2.01E-05	1.52E-05	1.52E-05	8.36E-06	7.53E-07	1.09E-05	6.76E-06	6.76E-06	3.35E-06
2774	257575.98	4086438	9.34E-06	1.35E-04	9.95E-05	9.95E-05	5.55E-05	1.42E-06	2.06E-05	1.55E-05	1.55E-05	8.54E-06	7.70E-07	1.11E-05	6.91E-06	6.91E-06	3.42E-06
2775	257553.64	4086429.83	9.54E-06	1.38E-04	1.02E-04	1.02E-04	5.67E-05	1.45E-06	2.10E-05	1.59E-05	1.59E-05	8.73E-06	7.86E-07	1.14E-05	7.06E-06	7.06E-06	3.50E-06
2776	257531.29	4086421.67	9.73E-06	1.41E-04	1.04E-04	1.04E-04	5.78E-05	1.48E-06	2.14E-05	1.62E-05	1.62E-05	8.91E-06	8.02E-07	1.16E-05	7.21E-06	7.21E-06	3.57E-06
2777	257508.94	4086413.51	9.92E-06	1.43E-04	1.06E-04	1.06E-04	5.90E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.08E-06	8.18E-07	1.18E-05	7.35E-06	7.35E-06	3.64E-06
2778	257486.59	4086405.34	1.01E-05	1.46E-04	1.08E-04	1.08E-04	6.00E-05	1.53E-06	2.23E-05	1.68E-05	1.68E-05	9.24E-06	8.33E-07	1.20E-05	7.48E-06	7.48E-06	3.70E-06
2779	257464.24	4086397.18	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.11E-05	1.56E-06	2.26E-05	1.71E-05	1.71E-05	9.40E-06	8.47E-07	1.22E-05	7.61E-06	7.61E-06	3.77E-06
2780	257441.89	4086389.01	1.04E-05	1.51E-04	1.11E-04	1.11E-04	6.20E-05	1.58E-06	2.30E-05	1.74E-05	1.74E-05	9.55E-06	8.60E-07	1.24E-05	7.73E-06	7.73E-06	3.83E-06
2781	257419.54	4086380.85	1.06E-05	1.53E-04	1.13E-04	1.13E-04	6.29E-05	1.61E-06	2.33E-05	1.76E-05	1.76E-05	9.69E-06	8.73E-07	1.26E-05	7.84E-06	7.84E-06	3.88E-06
2782	257397.19	4086372.69	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.38E-05	1.63E-06	2.37E-05	1.79E-05	1.79E-05	9.82E-06	8.85E-07	1.28E-05	7.95E-06	7.95E-06	3.94E-06
2783	257374.85	4086364.52	1.09E-05	1.57E-04	1.16E-04	1.16E-04	6.46E-05	1.65E-06	2.39E-05	1.81E-05	1.81E-05	9.95E-06	8.96E-07	1.30E-05	8.05E-06	8.05E-06	3.98E-06
2784	257352.5	4086356.36	1.10E-05	1.59E-04	1.17E-04	1.17E-04	6.53E-05	1.67E-06	2.42E-05	1.83E-05	1.83E-05	1.01E-05	9.06E-07	1.31E-05	8.14E-06	8.14E-06	4.03E-06
2785	257330.15	4086348.19	1.11E-05	1.61E-04	1.18E-04	1.18E-04	6.60E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.16E-07	1.32E-05	8.23E-06	8.23E-06	4.07E-06
2786	257307.8	4086340.03	1.12E-05	1.62E-04	1.20E-04	1.20E-04	6.67E-05	1.70E-06	2.47E-05	1.87E-05	1.87E-05	1.03E-05	9.25E-07	1.34E-05	8.31E-06	8.31E-06	4.11E-06
2787	257285.45	4086331.87	1.13E-05	1.64E-04	1.21E-04	1.21E-04	6.73E-05	1.72E-06	2.50E-05	1.89E-05	1.89E-05	1.04E-05	9.34E-07	1.35E-05	8.39E-06	8.39E-06	4.15E-06
2788	257263.1	4086323.7	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.79E-05	1.73E-06	2.52E-05	1.90E-05	1.90E-05	1.05E-05	9.42E-07	1.36E-05	8.46E-06	8.46E-06	4.19E-06
2789	257240.75	4086315.54	1.15E-05	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.51E-07	1.38E-05	8.54E-06	8.54E-06	4.23E-06
2790	257218.4	4086307.37	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.92E-05	1.77E-06	2.56E-05	1.94E-05	1.94E-05	1.07E-05	9.59E-07	1.39E-05	8.62E-06	8.62E-06	4.27E-06
2791	257196.06	4086299.21	1.17E-05	1.70E-04	1.25E-04	1.25E-04	6.98E-05	1.78E-06	2.59E-05	1.95E-05	1.95E-05	1.07E-05	9.68E-07	1.40E-05	8.70E-06	8.70E-06	4.30E-06
2792	257173.71	4086291.04	1.19E-05	1.71E-04	1.26E-04	1.26E-04	7.04E-05	1.80E-06	2.61E-05	1.97E-05	1.97E-05	1.08E-05	9.77E-07	1.41E-05	8.78E-06	8.78E-06	4.34E-06
2793	257151.36	4086282.88	1.20E-05	1.73E-04	1.28E-04	1.28E-04	7.12E-05	1.82E-06	2.64E-05	1.99E-05	1.99E-05	1.10E-05	9.88E-07	1.43E-05	8.87E-06	8.87E-06	4.39E-06
2794	257129.01	4086274.72	1.21E-05	1.75E-04	1.29E-04	1.29E-04	7.19E-05	1.84E-06	2.67E-05	2.01E-05	2.01E-05	1.11E-05	9.97E-07	1.44E-05	8.96E-06	8.96E-06	4.44E-06
2795	257106.66	4086266.55	1.22E-05	1.76E-04	1.30E-04	1.30E-04	7.25E-05	1.85E-06	2.69E-05	2.03E-05	2.03E-05	1.12E-05	1.01E-06	1.45E-05	9.03E-06	9.03E-06	4.47E-06
2796	257084.31	4086258.39	1.23E-05	1.78E-04	1.31E-04	1.31E-04	7.30E-05	1.86E-06	2.71E-05	2.04E-05	2.04E-05	1.12E-05	1.01E-06	1.46E-05	9.09E-06	9.09E-06	4.50E-06
2797	257061.96	4086250.22	1.23E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2798	257039.61	4086242.06	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.37E-05	1.88E-06	2.73E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.48E-05	9.18E-06	9.18E-06	4.54E-06
2799	257017.27	4086233.9	1.24E-05	1.80E-04	1.32E-04	1.32E-04	7.38E-05	1.89E-06	2.74E-05	2.07E-05	2.07E-05	1.14E-05	1.02E-06	1.48E-05	9.20E-06	9.20E-06	4.55E-06
2800	256994.92	4086225.73	1.24E-05	1.80E-04	1.33E-04	1.33E-04	7.39E-05	1.89E-06	2.74E-05	2.07E-05	2.07E-05	1.14E-05	1.03E-06	1.48E-05	9.21E-06	9.21E-06	4.56E-06
2801	256972.57	4086217.57	1.24E-05	1.80E-04	1.32E-04	1.32E-04	7.38E-05	1.88E-06	2.74E-05	2.07E-05	2.07E-05	1.14E-05	1.02E-06	1.48E-05	9.19E-06	9.19E-06	4.55E-06
2802	256950.22	4086209.4	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.36E-05	1.88E-06	2.73E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.48E-05	9.17E-06	9.17E-06	4.54E-06
2803	256927.87	4086201.24	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.73E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.16E-06	9.16E-06	4.53E-06
2804	256905.52	4086193.08	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.15E-06	9.15E-06	4.53E-06
2805	256883.17	4086184.91	1.23E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2806	256860.83	4086176.75	1.23E-05	1.78E-04	1.32E-04	1.32E-04	7.33E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2807	256838.48	4086168.58	1.23E-05	1.78E-04	1.32E-04	1.32E-04	7.33E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2808	256816.13	4086160.42	1.23E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2809	256793.78	4086152.26	1.23E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.53E-06
2810	256771.43	4086144.09	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.15E-06	9.15E-06	4.53E-06
2811	256749.08	4086135.93	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.16E-06	9.16E-06	4.53E-06
2812	256726.73	4086127.76	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.73E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.16E-06	9.16E-06	4.53E-06
2813	256704.38	4086119.6	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.73E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.48E-05	9.16E-06	9.16E-06	4.54E-06
2814	256672.08	4086089.82	1.26E-05	1.82E-04	1.34E-04	1.34E-04	7.48E-05	1.91E-06	2.77E-05	2.09E-05	2.09E-05	1.15E-05	1.04E-06	1.50E-05	9.31E-06	9.31E-06	4.61E-06
2815	256662.13	4086068.21	1.28E-05	1.85E-04	1.36E-04	1.36E-04	7.60E-05	1.94E-06	2.82E-05	2.13E-05	2.13E-05	1.17E-05	1.05E-06	1.52E-05	9.47E-06	9.47E-06	4.69E-06
2816	256652.18	4086046.6	1.30E-05	1.88E-04	1.39E-04	1.39E-04	7.72E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.62E-06	9.62E-06	4.76E-06
2817	256642.23	4086024.99	1.32E-05	1.90E-04	1.40E-04	1.40E-04	7.82E-05	2.00E-06	2.90E-05	2.19E-05	2.19E-05	1.20E-05	1.09E-06	1.57E-05	9.75E-06	9.75E-06	4.83E-06
2818	256632.28	4086003.38	1.33E-05	1.92E-04	1.42E-04	1.42E-04	7.91E-05	2.02E-06	2.93E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.86E-06	9.86E-06	4.88E-06
2819	256622.32	4085981.76	1.34E-05	1.94E-04	1.43E-04	1.43E-04	7.98E-05	2.04E-06	2.96E-05	2.23E-05	2.23E-05	1.23E-05	1.11E-06	1.60E-05	9.94E-06	9.94E-06	4.92E-06
2820	256612.37	4085960.15	1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.03E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.11E-06	1.61E-05	1.00E-05	1.00E-05	4.95E-06
2821	256602.42	4085938.54	1.35E-05	1.96E-04	1.44E-04	1.44E-04	8.05E-05	2.06E-06	2.99E-05	2.26E-05	2.26E-05	1.24E-05	1.12E-06	1.62E-05	1.00E-05	1.00E-05	4.97E-06
2822	256592.47	4085916.93	1.35E-05	1.96E-04	1.44E-04	1.44E-04	8.05E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.12E-06	1.61E-05	1.00E-05	1.00E-05	4.96E-06
2823	256582.52	4085895.32	1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.01E-05	2.05E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.61E-05	9.98E-06	9.98E-06	4.94E-06
2824	256572.56	4085873.7	1.34E-05	1.93E-04	1.42E-04	1.42E-04	7.94E-05	2.03E-06	2.95E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.90E-06	9.90E-06	4.90E-06
2825	256562.61	4085852.09	1.32E-05	1.91E-04	1.41E-04	1.41E-04	7.84E-05	2.00E-06	2.91E-05	2.20E-05	2.20E-05	1.21E-05	1.09E-06	1.57E-05	9.77E-06	9.77E-06	4.84E-06
2826	256552.66	4085830.48	1.30E-05	1.88E-04	1.38E-04	1.38E-04	7.71E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.61E-06	9.61E-06	4.76E-06
2827	256542.71	4085808.87	1.27E-05	1.84E-04	1.35E-04	1.35E-04	7.54E-05	1.93E-06	2.80E-05	2.11E-05	2.11E-05	1.16E-05	1.05E-06	1.51E-05	9.40E-06	9.40E-06	4.65E-06
2828	256532.76	4085787.26	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.15E-06	9.15E-06	4.53E-06
2829	256522.8	4085765.64	1.20E-05	1.73E-04	1.28E-04	1.28E-04	7.12E-05	1.82E-06	2.64E-05	1.99E-05	1.99E-05	1.10E-05	9.87E-07	1.43E-05	8.87E-06	8.87E-06	4.39E-06
2830	256512.85	4085744.03	1.15E-05	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.51E-07	1.38E-05	8.55E-06	8.55E-06	4.23E-06
2831	256502.9	4085722.42	1.11E-05	1.60E-04	1.18E-04	1.18E-04	6.58E-05	1.68E-06	2.44E-05	1.84E-05	1.84E-05	1.01E-05	9.12E-07	1.32E-05	8.20E-06	8.20E-06	4.06E-06

2832	256492.95	4085700.81	1.06E-05	1.53E-04	1.13E-04	1.13E-04	6.29E-05	1.61E-06	2.33E-05	1.76E-05	1.76E-05	9.68E-06	8.72E-07	1.26E-05	7.84E-06	7.84E-06	3.88E-06
2833	256483	4085679.2	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.97E-05	1.53E-06	2.21E-05	1.67E-05	1.67E-05	9.20E-06	8.28E-07	1.20E-05	7.44E-06	7.44E-06	3.68E-06
2834	256473.04	4085657.58	9.50E-06	1.37E-04	1.01E-04	1.01E-04	5.65E-05	1.44E-06	2.09E-05	1.58E-05	1.58E-05	8.70E-06	7.83E-07	1.13E-05	7.04E-06	7.04E-06	3.48E-06
2835	256463.09	4085635.97	8.96E-06	1.30E-04	9.55E-05	9.55E-05	5.33E-05	1.36E-06	1.97E-05	1.49E-05	1.49E-05	8.20E-06	7.39E-07	1.07E-05	6.64E-06	6.64E-06	3.28E-06
2836	256453.14	4085614.36	8.43E-06	1.22E-04	8.99E-05	8.99E-05	5.01E-05	1.28E-06	1.86E-05	1.40E-05	1.40E-05	7.72E-06	6.95E-07	1.01E-05	6.24E-06	6.24E-06	3.09E-06
2837	256443.19	4085592.75	7.93E-06	1.15E-04	8.46E-05	8.46E-05	4.71E-05	1.20E-06	1.75E-05	1.32E-05	1.32E-05	7.26E-06	6.54E-07	9.46E-06	5.87E-06	5.87E-06	2.91E-06
2838	256433.24	4085571.14	7.47E-06	1.08E-04	7.96E-05	7.96E-05	4.44E-05	1.13E-06	1.65E-05	1.24E-05	1.24E-05	6.84E-06	6.16E-07	8.91E-06	5.53E-06	5.53E-06	2.74E-06
2839	256423.28	4085549.52	7.06E-06	1.02E-04	7.52E-05	7.52E-05	4.19E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.46E-06	5.82E-07	8.41E-06	5.22E-06	5.22E-06	2.59E-06
2840	256413.33	4085527.91	6.69E-06	9.68E-05	7.13E-05	7.13E-05	3.98E-05	1.02E-06	1.47E-05	1.11E-05	1.11E-05	6.12E-06	5.52E-07	7.98E-06	4.96E-06	4.96E-06	2.45E-06
2841	256403.38	4085506.3	6.38E-06	9.23E-05	6.80E-05	6.80E-05	3.79E-05	9.68E-07	1.41E-05	1.06E-05	1.06E-05	5.84E-06	5.26E-07	7.60E-06	4.72E-06	4.72E-06	2.34E-06
2842	256393.43	4085484.69	6.12E-06	8.85E-05	6.52E-05	6.52E-05	3.64E-05	9.28E-07	1.35E-05	1.02E-05	1.02E-05	5.60E-06	5.04E-07	7.29E-06	4.53E-06	4.53E-06	2.24E-06
2843	256383.48	4085463.08	5.90E-06	8.53E-05	6.28E-05	6.28E-05	3.50E-05	8.95E-07	1.30E-05	9.81E-06	9.81E-06	5.39E-06	4.86E-07	7.03E-06	4.37E-06	4.37E-06	2.16E-06
2844	256373.52	4085441.47	5.71E-06	8.26E-05	6.09E-05	6.09E-05	3.39E-05	8.66E-07	1.26E-05	9.50E-06	9.50E-06	5.22E-06	4.71E-07	6.81E-06	4.23E-06	4.23E-06	2.09E-06
2845	256363.57	4085419.85	5.55E-06	8.03E-05	5.92E-05	5.92E-05	3.30E-05	8.42E-07	1.22E-05	9.24E-06	9.24E-06	5.08E-06	4.58E-07	6.62E-06	4.11E-06	4.11E-06	2.03E-06
2846	256353.62	4085398.24	5.41E-06	7.83E-05	5.77E-05	5.77E-05	3.22E-05	8.21E-07	1.19E-05	9.01E-06	9.01E-06	4.95E-06	4.46E-07	6.45E-06	4.01E-06	4.01E-06	1.98E-06
2847	256343.67	4085376.63	5.28E-06	7.64E-05	5.63E-05	5.63E-05	3.14E-05	8.02E-07	1.16E-05	8.80E-06	8.80E-06	4.84E-06	4.36E-07	6.30E-06	3.91E-06	3.91E-06	1.94E-06
2848	256333.72	4085355.02	5.17E-06	7.47E-05	5.51E-05	5.51E-05	3.07E-05	7.84E-07	1.14E-05	8.60E-06	8.60E-06	4.73E-06	4.26E-07	6.16E-06	3.83E-06	3.83E-06	1.89E-06
2849	256323.76	4085333.41	5.05E-06	7.31E-05	5.38E-05	5.38E-05	3.00E-05	7.67E-07	1.11E-05	8.41E-06	8.41E-06	4.62E-06	4.16E-07	6.02E-06	3.74E-06	3.74E-06	1.85E-06
2850	256313.81	4085311.79	4.94E-06	7.15E-05	5.27E-05	5.27E-05	2.94E-05	7.50E-07	1.09E-05	8.22E-06	8.22E-06	4.52E-06	4.07E-07	5.89E-06	3.66E-06	3.66E-06	1.81E-06
2851	256303.86	4085290.18	4.83E-06	6.99E-05	5.15E-05	5.15E-05	2.87E-05	7.34E-07	1.07E-05	8.05E-06	8.05E-06	4.42E-06	3.98E-07	5.76E-06	3.58E-06	3.58E-06	1.77E-06
2852	256293.91	4085268.57	4.73E-06	6.85E-05	5.05E-05	5.05E-05	2.81E-05	7.18E-07	1.04E-05	7.88E-06	7.88E-06	4.33E-06	3.90E-07	5.64E-06	3.51E-06	3.51E-06	1.74E-06
2853	256283.96	4085246.96	4.64E-06	6.71E-05	4.95E-05	4.95E-05	2.76E-05	7.04E-07	1.02E-05	7.73E-06	7.73E-06	4.25E-06	3.83E-07	5.53E-06	3.44E-06	3.44E-06	1.70E-06
2854	256274	4085225.35	4.56E-06	6.59E-05	4.86E-05	4.86E-05	2.71E-05	6.92E-07	1.00E-05	7.59E-06	7.59E-06	4.17E-06	3.76E-07	5.44E-06	3.38E-06	3.38E-06	1.67E-06
2855	257620.68	4086454.33	8.93E-06	1.29E-04	9.52E-05	9.52E-05	5.30E-05	1.35E-06	1.97E-05	1.49E-05	1.49E-05	8.17E-06	7.36E-07	1.06E-05	6.61E-06	6.61E-06	3.27E-06
2856	257644.96	4086453.25	8.81E-06	1.27E-04	9.40E-05	9.40E-05	5.24E-05	1.34E-06	1.94E-05	1.47E-05	1.47E-05	8.06E-06	7.26E-07	1.05E-05	6.53E-06	6.53E-06	3.23E-06
2857	257669.24	4086452.18	8.70E-06	1.26E-04	9.28E-05	9.28E-05	5.17E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.96E-06	7.17E-07	1.04E-05	6.44E-06	6.44E-06	3.19E-06
2858	257693.53	4086451.1	8.58E-06	1.24E-04	9.15E-05	9.15E-05	5.10E-05	1.30E-06	1.89E-05	1.43E-05	1.43E-05	7.85E-06	7.08E-07	1.02E-05	6.36E-06	6.36E-06	3.15E-06
2859	257717.81	4086450.02	8.47E-06	1.22E-04	9.03E-05	9.03E-05	5.03E-05	1.29E-06	1.87E-05	1.41E-05	1.41E-05	7.75E-06	6.98E-07	1.01E-05	6.27E-06	6.27E-06	3.10E-06
2860	257742.09	4086448.95	8.35E-06	1.21E-04	8.90E-05	8.90E-05	4.96E-05	1.27E-06	1.84E-05	1.39E-05	1.39E-05	7.64E-06	6.88E-07	9.96E-06	6.18E-06	6.18E-06	3.06E-06
2861	257766.37	4086447.87	8.25E-06	1.19E-04	8.79E-05	8.79E-05	4.90E-05	1.25E-06	1.82E-05	1.37E-05	1.37E-05	7.55E-06	6.80E-07	9.84E-06	6.11E-06	6.11E-06	3.02E-06
2862	257790.65	4086446.8	8.15E-06	1.18E-04	8.69E-05	8.69E-05	4.84E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.46E-06	6.72E-07	9.72E-06	6.04E-06	6.04E-06	2.99E-06
2863	257814.94	4086445.72	8.05E-06	1.16E-04	8.58E-05	8.58E-05	4.79E-05	1.22E-06	1.77E-05	1.34E-05	1.34E-05	7.37E-06	6.64E-07	9.60E-06	5.96E-06	5.96E-06	2.95E-06
2864	257839.22	4086444.65	7.95E-06	1.15E-04	8.48E-05	8.48E-05	4.73E-05	1.21E-06	1.75E-05	1.32E-05	1.32E-05	7.28E-06	6.56E-07	9.48E-06	5.89E-06	5.89E-06	2.92E-06
2865	257863.5	4086443.57	7.85E-06	1.14E-04	8.37E-05	8.37E-05	4.67E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.18E-06	6.47E-07	9.36E-06	5.81E-06	5.81E-06	2.88E-06
2866	257887.78	4086442.5	7.74E-06	1.12E-04	8.25E-05	8.25E-05	4.60E-05	1.17E-06	1.71E-05	1.29E-05	1.29E-05	7.08E-06	6.38E-07	9.23E-06	5.73E-06	5.73E-06	2.84E-06
2867	257912.06	4086441.42	7.63E-06	1.10E-04	8.13E-05	8.13E-05	4.53E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.98E-06	6.29E-07	9.10E-06	5.65E-06	5.65E-06	2.80E-06
2868	257936.34	4086440.35	7.51E-06	1.09E-04	8.00E-05	8.00E-05	4.46E-05	1.14E-06	1.65E-05	1.25E-05	1.25E-05	6.87E-06	6.19E-07	8.95E-06	5.56E-06	5.56E-06	2.75E-06
2869	257960.63	4086439.27	7.38E-06	1.07E-04	7.87E-05	7.87E-05	4.39E-05	1.12E-06	1.63E-05	1.23E-05	1.23E-05	6.75E-06	6.08E-07	8.80E-06	5.46E-06	5.46E-06	2.70E-06
2870	257984.91	4086438.19	7.24E-06	1.05E-04	7.72E-05	7.72E-05	4.31E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.63E-06	5.97E-07	8.64E-06	5.36E-06	5.36E-06	2.66E-06
2871	258009.19	4086437.12	7.10E-06	1.03E-04	7.57E-05	7.57E-05	4.22E-05	1.08E-06	1.56E-05	1.18E-05	1.18E-05	6.50E-06	5.85E-07	8.47E-06	5.26E-06	5.26E-06	2.60E-06
2872	258033.47	4086436.04	6.96E-06	1.01E-04	7.42E-05	7.42E-05	4.14E-05	1.06E-06	1.53E-05	1.16E-05	1.16E-05	6.37E-06	5.74E-07	8.30E-06	5.15E-06	5.15E-06	2.55E-06
2873	258057.75	4086434.97	6.82E-06	9.86E-05	7.27E-05	7.27E-05	4.05E-05	1.03E-06	1.50E-05	1.13E-05	1.13E-05	6.24E-06	5.62E-07	8.13E-06	5.05E-06	5.05E-06	2.50E-06
2874	258082.04	4086433.89	6.67E-06	9.65E-05	7.11E-05	7.11E-05	3.97E-05	1.01E-06	1.47E-05	1.11E-05	1.11E-05	6.11E-06	5.50E-07	7.95E-06	4.94E-06	4.94E-06	2.45E-06
2875	258106.32	4086432.82	6.53E-06	9.45E-05	6.96E-05	6.96E-05	3.88E-05	9.91E-07	1.44E-05	1.09E-05	1.09E-05	5.98E-06	5.38E-07	7.79E-06	4.84E-06	4.84E-06	2.39E-06
2876	258130.6	4086431.74	6.40E-06	9.26E-05	6.82E-05	6.82E-05	3.80E-05	9.72E-07	1.41E-05	1.07E-05	1.07E-05	5.86E-06	5.28E-07	7.63E-06	4.74E-06	4.74E-06	2.35E-06
2877	258154.88	4086430.67	6.28E-06	9.08E-05	6.69E-05	6.69E-05	3.73E-05	9.53E-07	1.38E-05	1.05E-05	1.05E-05	5.75E-06	5.18E-07	7.49E-06	4.65E-06	4.65E-06	2.30E-06
2878	258179.16	4086429.59	6.16E-06	8.91E-05	6.57E-05	6.57E-05	3.66E-05	9.35E-07	1.36E-05	1.03E-05	1.03E-05	5.64E-06	5.08E-07	7.35E-06	4.56E-06	4.56E-06	2.26E-06
2879	258203.44	4086428.52	6.06E-06	8.76E-05	6.45E-05	6.45E-05	3.60E-05	9.19E-07	1.33E-05	1.01E-05	1.01E-05	5.54E-06	4.99E-07	7.22E-06	4.48E-06	4.48E-06	2.22E-06
2880	258227.73	4086427.44	5.95E-06	8.61E-05	6.35E-05	6.35E-05	3.54E-05	9.03E-07	1.31E-05	9.91E-06	9.91E-06	5.45E-06	4.91E-07	7.10E-06	4.41E-06	4.41E-06	2.18E-06
2881	258252.01	4086426.36	5.85E-06	8.47E-05	6.24E-05	6.24E-05	3.48E-05	8.89E-07	1.29E-05	9.74E-06	9.74E-06	5.36E-06	4.83E-07	6.98E-06	4.34E-06	4.34E-06	2.15E-06
2882	258276.29	4086425.29	5.75E-06	8.32E-05	6.13E-05	6.13E-05	3.42E-05	8.73E-07	1.27E-05	9.58E-06	9.58E-06	5.27E-06	4.74E-07	6.86E-06	4.26E-06	4.26E-06	2.11E-06
2883	258300.57	4086424.21	5.65E-06	8.17E-05	6.02E-05	6.02E-05	3.36E-05	8.58E-07	1.25E-05	9.41E-06	9.41E-06	5.17E-06	4.66E-07	6.74E-06	4.19E-06	4.19E-06	2.07E-06
2884	258324.85	4086423.14	5.55E-06	8.02E-05	5.91E-05	5.91E-05	3.30E-05	8.42E-07	1.22E-05	9.23E-06	9.23E-06	5.08E-06	4.57E-07	6.61E-06	4.11E-06	4.11E-06	2.03E-06
2885	258349.14	4086422.06	5.44E-06	7.87E-05	5.80E-05	5.80E-05	3.23E-05	8.26E-07	1.20E-05	9.06E-06	9.06E-06	4.98E-06	4.48E-07	6.49E-06	4.03E-06	4.03E-06	1.99E-06
2886	258373.42	4086420.99	5.33E-06	7.71E-05	5.68E-05	5.68E-05	3.17E-05	8.09E-07	1.17E-05	8.87E-06	8.87E-06	4.88E-06	4.39E-07	6.36E-06	3.95E-06	3.95E-06	1.95E-06
2887	258397.7	4086419.91	5.22E-06	7.55E-05	5.57E-05	5.57E-05	3.10E-05	7.93E-07	1.15E-05	8.69E-06	8.69E-06	4.78E-06	4.31E-07	6.23E-06	3.87E-06	3.87E-06	1.91E-06
2888	258421.98	4086418.84	5.11E-06	7.40E-05	5.45E-05	5.45E-05	3.04E-05	7.76E-07	1.13E-05	8.51E-06	8.51E-06	4.68E-06	4.22E-07	6.10E-06	3.79E-06	3.79E-06	1.87E-06
2889	257606.97	4086645.89	7.27E-06	1.05E-04	7.75E-05	7.75E-05	4.32E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.65E-06	5.99E-07	8.66E-06	5.38E-06	5.38E-06	2.66E-06
2890	257584.4	4086637.65	7.40E-06	1.07E-04	7.89E-05	7.89E-05	4.40E-05	1.12E-06	1.63E-05	1.23E-05	1.23E-05	6.77E-06	6.10E-07	8.83E-06	5.48E-06	5.48E-06	2.71E-06
2891	257561.84	4086629.4	7.55E-06	1.09E-04	8.05E-05	8.05E-05	4.49E-05	1.15E-06	1.66E-05	1.26E-05	1.26E-05	6.91E-06	6.22E-07	9.00E-06	5.59E-06	5.59E-06	2.77E-06
2892	257539.28	4086621.16	7.70E-06	1.11E-04	8.20E-05	8.20E-05	4.57E-05	1.17E-06	1.70E-05	1.28E-05	1.28E-05	7.04E-06	6.34E-07	9.18E-06	5.70E-06	5.70E-06	2.82E-06
2893	257516.71	4086612.92	7.85E-06	1.14E-04	8.37E-05	8.37E-05	4.67E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.18E-06	6.47E-07	9.36E-06	5.81E-06	5.81E-06	2.88E-06
2894	257494.15	4086604.68	8.01E-06	1.16E-04	8.53E-05	8.53E-05	4.76E-05	1.22E-06	1.76E-05	1.33E-05	1.33E-05	7.33E-06	6.60E-07	9.54E-06	5.93E-06	5.93E-06	2.93E-06
2895	257471.59	4086596.43	8.16E-06	1.18E-04	8.70E-05	8.70E-05	4.85E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.47E-06	6.73E-07	9.73E-06	6.04E-06	6.04E-06	2.99E-06
2896	257449.02	4086588.19	8.32E-06	1.20E-04	8.86E-05	8.86E-05	4.94E-05	1.26E-06	1.83E-05	1.38E-05	1.38E-05	7.61E-06	6.85E-07	9.91E-06	6.16E-06	6.16E-06	3.05E-06
2897	257426.46	4086579.95	8.46E-06	1.22E-04	9.02E-05	9.02E-05	5.03E-05	1.28E-06	1.86E-05	1.41E-05	1.41E-05	7.74E-06	6.98E-07	1.01E-05	6.27E-06	6.27E-06	3.10E-06
2898	257403.89	4086571.7	8.60E-06	1.24E-04	9.17E-05	9.17E-05	5.11E-05	1.31E-06	1.90E-05	1.43E-05	1.43E-05	7.87E-06	7.09E-07	1.03E-05	6.37E-06	6.37E-06	3.15E-06
2899	257381.33	4086563.46	8.74E-06	1.26E-04	9.31E-05	9.31E-05	5.19E-05	1.33E-06	1.93E-05	1.45E-05	1.45E-05	8.00E-06	7.20E-07	1.04E-05	6.47E-06	6.47E-06	3.20E-06
2900	257358.77	4086555.22	8.86E-06	1.28E-04	9.44E-05	9.44E-05	5.26E-05	1.34E-06	1.95E-05	1.47E-05	1.47E-05	8.11E-06	7.30E-07	1.06E-05	6.56E-06	6.56E-06	3.25E-06
2901	257336.2	4086546.98	8.97E-06	1.30E-04	9.56E-05	9.56E-05	5.33E-05	1.36E-06	1.98E-05	1.49E-05	1.49E-05	8.21E-06	7.39E-07	1.07E-05	6.64E-06	6.64E-06	3.29E-06
2902	257313.64	4086538.73	9.07E-06	1.31E-04	9.67E-05	9.67E-05	5.39E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.30E-06	7.48E-07	1.08E-05	6.72E-06	6.72E-06	3.33E-06
2903	257291.08	4086530.49	9.17E-06	1.33E-04	9.78E-05	9.78E-05	5.45E-05	1.39E-06	2.02E-05	1.53E-05	1.53E-05	8.39E-06	7.56E-07	1.09E-05	6.79E-06	6.79E-06	3.36E-06
2904	257268.51	4086522.25	9.26E-06	1.34E-04	9.87E-05	9.87E-05	5.50E-05	1.41E-06	2.04E-05	1.54E-05	1.54E-05	8.48E-06	7.63E-07	1.10E-05	6.86E-06	6.86E-06	3.40E-06
2905	257245.95	4086514.01	9.36E-06	1.35E-04	9.98E-05	9.98E-05	5.56E-05	1.42E-06	2.06E-05	1.56E-05	1.56E-05	8.56E-06	7.71E-07	1.12E-05	6.93E-06	6.93E-06	3.43E-06
2906	257223.39	4086505.76	9.46E-06	1.37E-04	1.01E-04	1.01E-04	5.62E-05	1.44E-06	2.08E-05	1.58E-05	1.58E-05	8.66E-06	7.80E-07	1.13E-05	7.01E-06	7.01E-06	3.47E-06
2907	257200.82	4086497.52	9.56E-06	1.38E-04	1.02E-04	1.02E-04	5.68E-05	1.45E-06	2.11E-05	1.59E-05	1.59E-05	8.75E-06	7.88E-07	1.14E-05	7.08E-06	7.08E-06	3.50E-06
2908	257178.26	4086489.28	9.65E-06	1.40E-04	1.03E-04	1.03E-04	5.73E-05	1.46E-06	2.13E-05	1.61E-05	1.61E-05	8.83E-06	7.95E-07	1.15E-05	7.14E-06	7.14E-06	3.54E-06
2909	257155.7	4086481.04	9.74E-06	1.41E-04	1.04E-04	1.04E-04	5.79E-05	1.48E-06	2.15E-05	1.62E-05	1.62E-05	8.91E-06	8.03E-07	1.16E-05	7.21E-06	7.21E-06	3.57E-06
2910	257133.13	4086472.79	9.83E-06	1.42E-04	1.05E-04	1.05E-04	5.84E-05	1.49E-06	2.17E-05	1.64E-05	1.64E-05	9.00E-06	8.10E-07	1.17E-05	7.28E-06	7.28E-06	3.60E-06
2911	257110.57	4086464.55	9.92E-06	1.43E-04	1.06E-04	1.06E-04	5.90E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.08E-06	8.18E-07	1.18E-05	7.35E-06	7.35E-06	3.64E-06
2912	257088	4086456.31	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.95E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.16E-06	8.25E-07	1.19E-05	7.41E-06	7.41E-06	3.67E-06
2913	257065.44	4086448.07	1.01E-05	1.46E-04	1.08E-04	1.08E-04	6.00E-05	1.53E-06	2.22E-05	1.68E-05	1.68E-05	9.23E-06	8.32E-07	1.20E-05	7.47E-06	7.47E-06	3.70E-06
2914	257042.88	4086439.82	1.02E-05	1.47E-04	1.08E-04	1.08E-04	6.04E-05	1.54E-06	2.24E-05	1.69E-05	1.69E-05	9.30E-06	8.38E-07	1.21E-05	7.53E-06	7.53E-06	3.73E-06
2915	257020.31	4086431.58	1.02E-05	1.48E-04	1.09E-04	1.09E-04	6.08E-05	1.55E-06	2.25E-05	1.70E-05	1.70E-05	9.36E-06	8.43E-07	1.22E-05	7.58E-06	7.58E-06	3.75E-06
2916	256997.75	4086423.34	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.11E-05	1.56E-06	2.27E-05	1.71E-05	1.71E-05	9.42E-06	8.48E-07	1.23E-05	7.62E-06	7.62E-06	3.77E-06
2917	256975.19	4086415.1	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.45E-06	8.51E-07	1.23E-05	7.65E-06	7.65E-06	3.79E-06
2918	256952.62	4086406.85	1.04E-05	1.50E-04	1.10E-04	1.10E-04	6.16E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.48E-06	8.54E-07	1.23E-05	7.67E-06	7.67E-06	3.80E-06
2919	256930.06	4086398.61	1.04E-05	1.50E-04	1.11E-04	1.11E-04	6.16E-05	1.57E-06	2.29E-05	1.73E-05	1.73E-05	9.49E-06	8.55E-07	1.24E-05	7.68E-06	7.68E-06	3.80E-06
2920	256907.5	4086390.37	1.04E-05	1.50E-04	1.11E-04	1.11E-04	6.16E-05	1.57E-06	2.29E-05	1.73E-05	1.73E-05	9.49E-06	8.55E-07	1.24E-05	7.68E-06	7.68E-06	3.80E-06
2921	256884.93	4086382.13	1.04E-05	1.50E-04	1.11E-04	1.11E-04	6.16E-05	1.57E-06	2.28E-05	1.73E-05	1.73E-05	9.49E-06	8.54E-07	1.24E-05	7.68E-06	7.68E-06	3.80E-06
2922	256862.37	4086373.88	1.04E-05	1.50E-04	1.10E-04	1.10E-04	6.15E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.47E-06	8.53E-07	1.23E-05	7.67E-06	7.67E-06	3.79E-06
2923	256839.8	4086365.64	1.03E-05	1.50E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.46E-06	8.52E-07	1.23E-05	7.66E-06	7.66E-06	3.79E-06
2924	256817.24	4086357.4	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.45E-06	8.51E-07	1.23E-05	7.65E-06	7.65E-06	3.78E-06
2925	256794.68	4086349.15	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.13E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.44E-06	8.50E-07	1.23E-05	7.64E-06	7.64E-06	3.78E-06
2926	256772.11	4086340.91	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.13E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.44E-06	8.50E-07	1.23E-05	7.64E-06	7.64E-06	3.78E-06
2927	256749.55	4086332.67	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.13E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.44E-06	8.51E-07	1.23E-05	7.64E-06	7.64E-06	3.78E-06
2928	256726.99	4086324.43	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.45E-06	8.51E-07	1.23E-05	7.65E-06	7.65E-06	3.79E-06
2929	256704.42	4086316.18	1.03E-05	1.50E-04	1.10E-04	1.10E-04	6.15E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.47E-06	8.53E-07	1.23E-05	7.66E-06	7.66E-06	3.79E-06
2930	256681.86	4086307.94	1.04E-05	1.50E-04	1.11E-04	1.11E-04	6.16E-05	1.57E-06	2.28E-05	1.73E-05	1.73E-05	9.49E-06	8.54E-07	1.24E-05	7.68E-06	7.68E-06	3.80E-06
2931	256659.3	4086299.7	1.04E-05	1.50E-04	1.11E-04	1.11E-04	6.17E-05	1.58E-06	2.29E-05	1.73E-05	1.73E-05	9.51E-06	8.56E-07	1.24E-05	7.69E-06	7.69E-06	3.81E-06
2932	256636.73	4086291.46	1.04E-05	1.51E-04	1.11E-04	1.11E-04	6.19E-05	1.58E-06	2.29E-05	1.73E-05	1.73E-05	9.53E-06	8.58E-07	1.24E-05	7.71E-06	7.71E-06	3.82E-06
2933	256614.17	4086283.21	1.04E-05	1.51E-04	1.11E-04	1.11E-04	6.21E-05	1.59E-06	2.30E-05	1.74E-05	1.74E-05	9.56E-06	8.61E-07	1.25E-05	7.74E-06	7.74E-06	3.83E-06
2934	256591.61	4086274.97	1.05E-05	1.52E-04	1.12E-04	1.12E-04	6.23E-05	1.59E-06	2.31E-05	1.75E-05	1.75E-05	9.60E-06	8.64E-07	1.25E-05	7.77E-06	7.77E-06	3.84E-06
2935	256569.04	4086266.73	1.05E-05	1.52E-04	1.12E-04	1.12E-04	6.25E-05	1.59E-06	2.32E-05	1.75E-05	1.75E-05	9.62E-06	8.66E-07	1.25E-05	7.78E-06	7.78E-06	3.85E-06
2936	256536.43	4086236.67	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.35E-05	1.62E-06	2.36E-05	1.78E-05	1.78E-05	9.78E-06	8.81E-07	1.27E-05	7.92E-06	7.92E-06	3.92E-06

2937	256526.38	4086214.85	1.09E-05	1.57E-04	1.16E-04	1.16E-04	6.45E-05	1.65E-06	2.39E-05	1.81E-05	1.81E-05	9.93E-06	8.95E-07	1.29E-05	8.04E-06	8.04E-06	3.98E-06
2938	256516.33	4086193.03	1.10E-05	1.59E-04	1.17E-04	1.17E-04	6.55E-05	1.67E-06	2.43E-05	1.83E-05	1.83E-05	1.01E-05	9.08E-07	1.31E-05	8.16E-06	8.16E-06	4.04E-06
2939	256506.29	4086171.21	1.12E-05	1.61E-04	1.19E-04	1.19E-04	6.64E-05	1.69E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.20E-07	1.33E-05	8.27E-06	8.27E-06	4.09E-06
2940	256496.24	4086149.39	1.13E-05	1.64E-04	1.21E-04	1.21E-04	6.72E-05	1.72E-06	2.49E-05	1.88E-05	1.88E-05	1.03E-05	9.32E-07	1.35E-05	8.37E-06	8.37E-06	4.14E-06
2941	256486.19	4086127.57	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.79E-05	1.74E-06	2.52E-05	1.90E-05	1.90E-05	1.05E-05	9.42E-07	1.36E-05	8.47E-06	8.47E-06	4.19E-06
2942	256476.14	4086105.75	1.15E-05	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.51E-07	1.38E-05	8.54E-06	8.54E-06	4.23E-06
2943	256466.1	4086083.93	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.91E-05	1.76E-06	2.56E-05	1.93E-05	1.93E-05	1.06E-05	9.58E-07	1.39E-05	8.61E-06	8.61E-06	4.26E-06
2944	256456.05	4086062.11	1.17E-05	1.69E-04	1.24E-04	1.24E-04	6.94E-05	1.77E-06	2.57E-05	1.94E-05	1.94E-05	1.07E-05	9.62E-07	1.39E-05	8.65E-06	8.65E-06	4.28E-06
2945	256446	4086040.29	1.17E-05	1.69E-04	1.25E-04	1.25E-04	6.95E-05	1.78E-06	2.58E-05	1.95E-05	1.95E-05	1.07E-05	9.64E-07	1.39E-05	8.66E-06	8.66E-06	4.29E-06
2946	256435.95	4086018.47	1.17E-05	1.69E-04	1.25E-04	1.25E-04	6.94E-05	1.77E-06	2.57E-05	1.94E-05	1.94E-05	1.07E-05	9.63E-07	1.39E-05	8.65E-06	8.65E-06	4.28E-06
2947	256425.91	4085996.65	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.91E-05	1.77E-06	2.56E-05	1.94E-05	1.94E-05	1.06E-05	9.59E-07	1.39E-05	8.61E-06	8.61E-06	4.26E-06
2948	256415.86	4085974.83	1.15E-05	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.51E-07	1.38E-05	8.55E-06	8.55E-06	4.23E-06
2949	256405.81	4085953.01	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.78E-05	1.73E-06	2.51E-05	1.90E-05	1.90E-05	1.04E-05	9.41E-07	1.36E-05	8.45E-06	8.45E-06	4.18E-06
2950	256395.76	4085931.19	1.12E-05	1.63E-04	1.20E-04	1.20E-04	6.68E-05	1.71E-06	2.48E-05	1.87E-05	1.87E-05	1.03E-05	9.26E-07	1.34E-05	8.32E-06	8.32E-06	4.12E-06
2951	256385.71	4085909.37	1.10E-05	1.59E-04	1.18E-04	1.18E-04	6.55E-05	1.67E-06	2.43E-05	1.83E-05	1.83E-05	1.01E-05	9.09E-07	1.31E-05	8.16E-06	8.16E-06	4.04E-06
2952	256375.67	4085887.55	1.08E-05	1.56E-04	1.15E-04	1.15E-04	6.40E-05	1.64E-06	2.37E-05	1.79E-05	1.79E-05	9.86E-06	8.88E-07	1.28E-05	7.98E-06	7.98E-06	3.95E-06
2953	256365.62	4085865.73	1.05E-05	1.52E-04	1.12E-04	1.12E-04	6.24E-05	1.59E-06	2.31E-05	1.75E-05	1.75E-05	9.60E-06	8.65E-07	1.25E-05	7.77E-06	7.77E-06	3.85E-06
2954	256355.57	4085843.91	1.01E-05	1.47E-04	1.08E-04	1.08E-04	6.03E-05	1.54E-06	2.24E-05	1.69E-05	1.69E-05	9.29E-06	8.37E-07	1.21E-05	7.52E-06	7.52E-06	3.72E-06
2955	256345.52	4085822.09	9.78E-06	1.41E-04	1.04E-04	1.04E-04	5.81E-05	1.48E-06	2.15E-05	1.63E-05	1.63E-05	8.95E-06	8.06E-07	1.17E-05	7.24E-06	7.24E-06	3.58E-06
2956	256335.48	4085800.27	9.37E-06	1.36E-04	9.99E-05	9.99E-05	5.57E-05	1.42E-06	2.07E-05	1.56E-05	1.56E-05	8.58E-06	7.73E-07	1.12E-05	6.94E-06	6.94E-06	3.44E-06
2957	256325.43	4085778.45	8.95E-06	1.29E-04	9.54E-05	9.54E-05	5.32E-05	1.36E-06	1.97E-05	1.49E-05	1.49E-05	8.19E-06	7.38E-07	1.07E-05	6.63E-06	6.63E-06	3.28E-06
2958	256315.38	4085756.63	8.51E-06	1.23E-04	9.08E-05	9.08E-05	5.06E-05	1.29E-06	1.88E-05	1.42E-05	1.42E-05	7.79E-06	7.02E-07	1.02E-05	6.31E-06	6.31E-06	3.12E-06
2959	256305.33	4085734.81	8.07E-06	1.17E-04	8.60E-05	8.60E-05	4.80E-05	1.22E-06	1.78E-05	1.34E-05	1.34E-05	7.39E-06	6.65E-07	9.62E-06	5.98E-06	5.98E-06	2.96E-06
2960	256295.29	4085712.99	7.64E-06	1.10E-04	8.14E-05	8.14E-05	4.54E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.99E-06	6.30E-07	9.11E-06	5.66E-06	5.66E-06	2.80E-06
2961	256285.24	4085691.17	7.22E-06	1.04E-04	7.70E-05	7.70E-05	4.29E-05	1.10E-06	1.59E-05	1.20E-05	1.20E-05	6.61E-06	5.95E-07	8.61E-06	5.35E-06	5.35E-06	2.65E-06
2962	256275.19	4085669.35	6.81E-06	9.85E-05	7.26E-05	7.26E-05	4.05E-05	1.03E-06	1.50E-05	1.13E-05	1.13E-05	6.23E-06	5.62E-07	8.12E-06	5.05E-06	5.05E-06	2.50E-06
2963	256265.14	4085647.53	6.44E-06	9.31E-05	6.87E-05	6.87E-05	3.83E-05	9.77E-07	1.42E-05	1.07E-05	1.07E-05	5.89E-06	5.31E-07	7.68E-06	4.77E-06	4.77E-06	2.36E-06
2964	256255.09	4085625.71	6.10E-06	8.83E-05	6.51E-05	6.51E-05	3.63E-05	9.26E-07	1.34E-05	1.02E-05	1.02E-05	5.58E-06	5.03E-07	7.28E-06	4.52E-06	4.52E-06	2.24E-06
2965	256245.05	4085603.89	5.80E-06	8.39E-05	6.19E-05	6.19E-05	3.45E-05	8.81E-07	1.28E-05	9.66E-06	9.66E-06	5.31E-06	4.78E-07	6.92E-06	4.30E-06	4.30E-06	2.13E-06
2966	256235	4085582.07	5.54E-06	8.02E-05	5.91E-05	5.91E-05	3.29E-05	8.41E-07	1.22E-05	9.23E-06	9.23E-06	5.07E-06	4.57E-07	6.61E-06	4.10E-06	4.10E-06	2.03E-06
2967	256224.95	4085560.26	5.32E-06	7.70E-05	5.68E-05	5.68E-05	3.16E-05	8.08E-07	1.17E-05	8.86E-06	8.86E-06	4.87E-06	4.39E-07	6.35E-06	3.94E-06	3.94E-06	1.95E-06
2968	256214.9	4085538.44	5.14E-06	7.43E-05	5.48E-05	5.48E-05	3.05E-05	7.80E-07	1.13E-05	8.55E-06	8.55E-06	4.70E-06	4.24E-07	6.13E-06	3.81E-06	3.81E-06	1.88E-06
2969	256204.86	4085516.62	4.99E-06	7.21E-05	5.31E-05	5.31E-05	2.96E-05	7.57E-07	1.10E-05	8.30E-06	8.30E-06	4.56E-06	4.11E-07	5.94E-06	3.69E-06	3.69E-06	1.83E-06
2970	256194.81	4085494.8	4.86E-06	7.02E-05	5.18E-05	5.18E-05	2.89E-05	7.37E-07	1.07E-05	8.08E-06	8.08E-06	4.44E-06	4.00E-07	5.79E-06	3.60E-06	3.60E-06	1.78E-06
2971	256184.76	4085472.98	4.75E-06	6.87E-05	5.06E-05	5.06E-05	2.82E-05	7.21E-07	1.05E-05	7.90E-06	7.90E-06	4.34E-06	3.91E-07	5.66E-06	3.52E-06	3.52E-06	1.74E-06
2972	256174.71	4085451.16	4.65E-06	6.72E-05	4.96E-05	4.96E-05	2.76E-05	7.06E-07	1.02E-05	7.74E-06	7.74E-06	4.25E-06	3.83E-07	5.54E-06	3.44E-06	3.44E-06	1.70E-06
2973	256164.67	4085429.34	4.56E-06	6.60E-05	4.86E-05	4.86E-05	2.71E-05	6.92E-07	1.01E-05	7.59E-06	7.59E-06	4.17E-06	3.76E-07	5.44E-06	3.38E-06	3.38E-06	1.67E-06
2974	256154.62	4085407.52	4.48E-06	6.47E-05	4.77E-05	4.77E-05	2.66E-05	6.79E-07	9.86E-06	7.45E-06	7.45E-06	4.10E-06	3.69E-07	5.34E-06	3.31E-06	3.31E-06	1.64E-06
2975	256144.57	4085385.7	4.39E-06	6.35E-05	4.68E-05	4.68E-05	2.61E-05	6.66E-07	9.67E-06	7.31E-06	7.31E-06	4.02E-06	3.62E-07	5.23E-06	3.25E-06	3.25E-06	1.61E-06
2976	256134.52	4085363.88	4.30E-06	6.22E-05	4.59E-05	4.59E-05	2.56E-05	6.53E-07	9.48E-06	7.16E-06	7.16E-06	3.94E-06	3.55E-07	5.13E-06	3.19E-06	3.19E-06	1.58E-06
2977	256124.47	4085342.06	4.22E-06	6.10E-05	4.50E-05	4.50E-05	2.51E-05	6.40E-07	9.29E-06	7.02E-06	7.02E-06	3.86E-06	3.48E-07	5.03E-06	3.12E-06	3.12E-06	1.55E-06
2978	256114.43	4085320.24	4.13E-06	5.97E-05	4.40E-05	4.40E-05	2.46E-05	6.27E-07	9.10E-06	6.88E-06	6.88E-06	3.78E-06	3.41E-07	4.93E-06	3.06E-06	3.06E-06	1.51E-06
2979	256104.38	4085298.42	4.05E-06	5.86E-05	4.32E-05	4.32E-05	2.41E-05	6.15E-07	8.93E-06	6.74E-06	6.74E-06	3.71E-06	3.34E-07	4.83E-06	3.00E-06	3.00E-06	1.48E-06
2980	256094.33	4085276.6	3.98E-06	5.75E-05	4.24E-05	4.24E-05	2.36E-05	6.04E-07	8.76E-06	6.62E-06	6.62E-06	3.64E-06	3.28E-07	4.74E-06	2.95E-06	2.95E-06	1.46E-06
2981	256084.28	4085254.78	3.91E-06	5.65E-05	4.16E-05	4.16E-05	2.32E-05	5.93E-07	8.61E-06	6.50E-06	6.50E-06	3.57E-06	3.22E-07	4.66E-06	2.89E-06	2.89E-06	1.43E-06
2982	256074.24	4085232.96	3.85E-06	5.56E-05	4.10E-05	4.10E-05	2.29E-05	5.84E-07	8.47E-06	6.40E-06	6.40E-06	3.52E-06	3.17E-07	4.59E-06	2.85E-06	2.85E-06	1.41E-06
2983	257629.53	4086654.13	7.14E-06	1.03E-04	7.61E-05	7.61E-05	4.24E-05	1.08E-06	1.57E-05	1.19E-05	1.19E-05	6.53E-06	5.88E-07	8.51E-06	5.29E-06	5.29E-06	2.62E-06
2984	257653.81	4086653.06	7.07E-06	1.02E-04	7.54E-05	7.54E-05	4.20E-05	1.07E-06	1.56E-05	1.18E-05	1.18E-05	6.47E-06	5.83E-07	8.43E-06	5.24E-06	5.24E-06	2.59E-06
2985	257678.09	4086651.98	7.01E-06	1.01E-04	7.47E-05	7.47E-05	4.17E-05	1.06E-06	1.54E-05	1.17E-05	1.17E-05	6.41E-06	5.78E-07	8.36E-06	5.19E-06	5.19E-06	2.57E-06
2986	257702.38	4086650.9	6.95E-06	1.01E-04	7.41E-05	7.41E-05	4.13E-05	1.05E-06	1.53E-05	1.16E-05	1.16E-05	6.36E-06	5.73E-07	8.28E-06	5.15E-06	5.15E-06	2.55E-06
2987	257726.66	4086649.83	6.89E-06	9.97E-05	7.35E-05	7.35E-05	4.10E-05	1.05E-06	1.52E-05	1.15E-05	1.15E-05	6.31E-06	5.68E-07	8.22E-06	5.10E-06	5.10E-06	2.53E-06
2988	257750.94	4086648.75	6.83E-06	9.88E-05	7.29E-05	7.29E-05	4.06E-05	1.04E-06	1.51E-05	1.14E-05	1.14E-05	6.25E-06	5.63E-07	8.15E-06	5.06E-06	5.06E-06	2.51E-06
2989	257775.22	4086647.68	6.77E-06	9.80E-05	7.22E-05	7.22E-05	4.03E-05	1.03E-06	1.49E-05	1.13E-05	1.13E-05	6.20E-06	5.58E-07	8.08E-06	5.02E-06	5.02E-06	2.48E-06
2990	257799.5	4086646.6	6.71E-06	9.71E-05	7.16E-05	7.16E-05	3.99E-05	1.02E-06	1.48E-05	1.12E-05	1.12E-05	6.14E-06	5.53E-07	8.00E-06	4.97E-06	4.97E-06	2.46E-06
2991	257823.79	4086645.53	6.65E-06	9.61E-05	7.09E-05	7.09E-05	3.95E-05	1.01E-06	1.46E-05	1.11E-05	1.11E-05	6.08E-06	5.48E-07	7.92E-06	4.92E-06	4.92E-06	2.44E-06
2992	257848.07	4086644.45	6.58E-06	9.51E-05	7.01E-05	7.01E-05	3.91E-05	9.98E-07	1.45E-05	1.09E-05	1.09E-05	6.02E-06	5.42E-07	7.84E-06	4.87E-06	4.87E-06	2.41E-06
2993	257872.35	4086643.38	6.50E-06	9.40E-05	6.93E-05	6.93E-05	3.86E-05	9.86E-07	1.43E-05	1.08E-05	1.08E-05	5.95E-06	5.36E-07	7.75E-06	4.81E-06	4.81E-06	2.38E-06
2994	257896.63	4086642.3	6.41E-06	9.27E-05	6.84E-05	6.84E-05	3.81E-05	9.73E-07	1.41E-05	1.07E-05	1.07E-05	5.87E-06	5.29E-07	7.64E-06	4.75E-06	4.75E-06	2.35E-06
2995	257920.91	4086641.23	6.32E-06	9.14E-05	6.74E-05	6.74E-05	3.76E-05	9.59E-07	1.39E-05	1.05E-05	1.05E-05	5.78E-06	5.21E-07	7.53E-06	4.68E-06	4.68E-06	2.32E-06
2996	257945.19	4086640.15	6.22E-06	8.99E-05	6.63E-05	6.63E-05	3.70E-05	9.44E-07	1.37E-05	1.04E-05	1.04E-05	5.69E-06	5.13E-07	7.41E-06	4.61E-06	4.61E-06	2.28E-06
2997	257969.48	4086639.07	6.11E-06	8.84E-05	6.52E-05	6.52E-05	3.63E-05	9.28E-07	1.35E-05	1.02E-05	1.02E-05	5.59E-06	5.04E-07	7.29E-06	4.53E-06	4.53E-06	2.24E-06
2998	257993.76	4086638	6.00E-06	8.68E-05	6.40E-05	6.40E-05	3.57E-05	9.11E-07	1.32E-05	9.99E-06	9.99E-06	5.49E-06	4.95E-07	7.15E-06	4.44E-06	4.44E-06	2.20E-06
2999	258018.04	4086636.92	5.88E-06	8.51E-05	6.27E-05	6.27E-05	3.50E-05	8.93E-07	1.30E-05	9.79E-06	9.79E-06	5.38E-06	4.85E-07	7.01E-06	4.36E-06	4.36E-06	2.16E-06
3000	258042.32	4086635.85	5.76E-06	8.33E-05	6.14E-05	6.14E-05	3.42E-05	8.74E-07	1.27E-05	9.59E-06	9.59E-06	5.27E-06	4.75E-07	6.87E-06	4.27E-06	4.27E-06	2.11E-06
3001	258066.6	4086634.77	5.64E-06	8.16E-05	6.01E-05	6.01E-05	3.35E-05	8.56E-07	1.24E-05	9.39E-06	9.39E-06	5.16E-06	4.65E-07	6.72E-06	4.18E-06	4.18E-06	2.07E-06
3002	258090.89	4086633.7	5.52E-06	7.98E-05	5.88E-05	5.88E-05	3.28E-05	8.38E-07	1.22E-05	9.19E-06	9.19E-06	5.05E-06	4.55E-07	6.58E-06	4.09E-06	4.09E-06	2.02E-06
3003	258115.17	4086632.62	5.40E-06	7.82E-05	5.76E-05	5.76E-05	3.21E-05	8.20E-07	1.19E-05	8.99E-06	8.99E-06	4.94E-06	4.45E-07	6.44E-06	4.00E-06	4.00E-06	1.98E-06
3004	258139.45	4086631.55	5.29E-06	7.66E-05	5.64E-05	5.64E-05	3.15E-05	8.03E-07	1.17E-05	8.81E-06	8.81E-06	4.84E-06	4.36E-07	6.31E-06	3.92E-06	3.92E-06	1.94E-06
3005	258163.73	4086630.47	5.19E-06	7.51E-05	5.53E-05	5.53E-05	3.08E-05	7.88E-07	1.14E-05	8.64E-06	8.64E-06	4.75E-06	4.28E-07	6.19E-06	3.84E-06	3.84E-06	1.90E-06
3006	258188.01	4086629.4	5.10E-06	7.37E-05	5.43E-05	5.43E-05	3.03E-05	7.73E-07	1.12E-05	8.48E-06	8.48E-06	4.66E-06	4.20E-07	6.08E-06	3.77E-06	3.77E-06	1.87E-06
3007	258212.29	4086628.32	5.01E-06	7.24E-05	5.34E-05	5.34E-05	2.98E-05	7.60E-07	1.10E-05	8.34E-06	8.34E-06	4.58E-06	4.13E-07	5.97E-06	3.71E-06	3.71E-06	1.84E-06
3008	258236.58	4086627.24	4.93E-06	7.12E-05	5.25E-05	5.25E-05	2.93E-05	7.48E-07	1.09E-05	8.20E-06	8.20E-06	4.51E-06	4.06E-07	5.87E-06	3.65E-06	3.65E-06	1.81E-06
3009	258260.86	4086626.17	4.85E-06	7.01E-05	5.17E-05	5.17E-05	2.88E-05	7.36E-07	1.07E-05	8.07E-06	8.07E-06	4.44E-06	4.00E-07	5.78E-06	3.59E-06	3.59E-06	1.78E-06
3010	258285.14	4086625.09	4.77E-06	6.91E-05	5.09E-05	5.09E-05	2.84E-05	7.25E-07	1.05E-05	7.95E-06	7.95E-06	4.37E-06	3.94E-07	5.69E-06	3.54E-06	3.54E-06	1.75E-06
3011	258309.42	4086624.02	4.70E-06	6.80E-05	5.01E-05	5.01E-05	2.79E-05	7.14E-07	1.04E-05	7.83E-06	7.83E-06	4.30E-06	3.88E-07	5.61E-06	3.48E-06	3.48E-06	1.72E-06
3012	258333.7	4086622.94	4.63E-06	6.70E-05	4.94E-05	4.94E-05	2.75E-05	7.03E-07	1.02E-05	7.71E-06	7.71E-06	4.24E-06	3.82E-07	5.52E-06	3.43E-06	3.43E-06	1.70E-06
3013	258357.99	4086621.87	4.56E-06	6.60E-05	4.86E-05	4.86E-05	2.71E-05	6.92E-07	1.01E-05	7.59E-06	7.59E-06	4.17E-06	3.76E-07	5.44E-06	3.38E-06	3.38E-06	1.67E-06
3014	258382.27	4086620.79	4.49E-06	6.50E-05	4.79E-05	4.79E-05	2.67E-05	6.82E-07	9.90E-06	7.48E-06	7.48E-06	4.11E-06	3.70E-07	5.36E-06	3.33E-06	3.33E-06	1.65E-06
3015	258406.55	4086619.72	4.42E-06	6.40E-05	4.72E-05	4.72E-05	2.63E-05	6.71E-07	9.75E-06	7.36E-06	7.36E-06	4.05E-06	3.65E-07	5.27E-06	3.28E-06	3.28E-06	1.62E-06
3016	258430.83	4086618.64	4.35E-06	6.30E-05	4.64E-05	4.64E-05	2.59E-05	6.61E-07	9.59E-06	7.25E-06	7.25E-06	3.98E-06	3.59E-07	5.19E-06	3.22E-06	3.22E-06	1.60E-06

					2007
			2000	257758.52	4085171.97
	Max Yr	**2**	4.89E-02	7.45E-03	4.03E-03
	Row	**33**	T2	T2L3	T4f
		Col	**3**	**4**	**5**
		Adjustment	**100%**	**15%**	**8%**
			Year 2	Year 2	Year 2
1	258389.5	4085119	1.73E-02	2.63E-03	1.42E-03
2	258388.7	4085095	2.75E-02	4.19E-03	2.27E-03
3	258388	4085070	3.82E-02	5.81E-03	3.15E-03
4	258387.3	4085045	4.49E-02	6.84E-03	3.70E-03
5	258386.6	4085020	4.88E-02	7.43E-03	4.02E-03
6	258385.8	4084996	5.06E-02	7.71E-03	4.17E-03
7	258385.1	4084971	5.06E-02	7.71E-03	4.17E-03
8	258384.4	4084946	4.86E-02	7.40E-03	4.00E-03
9	258383.7	4084921	4.19E-02	6.38E-03	3.45E-03
10	258407.8	4085136	1.06E-02	1.62E-03	8.76E-04
11	258383.9	4085162	1.03E-02	1.56E-03	8.46E-04
12	258413.7	4085094	1.70E-02	2.58E-03	1.40E-03
13	258413	4085069	2.28E-02	3.47E-03	1.88E-03
14	258412.3	4085044	2.77E-02	4.22E-03	2.28E-03
15	258411.6	4085020	3.12E-02	4.76E-03	2.57E-03
16	258410.8	4084995	3.33E-02	5.08E-03	2.75E-03
17	258410.1	4084970	3.42E-02	5.20E-03	2.82E-03
18	258409.4	4084945	3.35E-02	5.10E-03	2.76E-03
19	258408.7	4084921	3.11E-02	4.73E-03	2.56E-03
20	258432.8	4085136	8.37E-03	1.28E-03	6.90E-04
21	258402.2	4085179	7.38E-03	1.12E-03	6.08E-04
22	258438.7	4085093	1.20E-02	1.83E-03	9.91E-04
23	258438	4085068	1.54E-02	2.35E-03	1.27E-03
24	258437.3	4085044	1.89E-02	2.87E-03	1.55E-03
25	258436.5	4085019	2.17E-02	3.30E-03	1.79E-03
26	258435.8	4084994	2.37E-02	3.61E-03	1.95E-03
27	258435.1	4084969	2.48E-02	3.78E-03	2.04E-03
28	258434.4	4084945	2.49E-02	3.80E-03	2.06E-03
29	258433.7	4084920	2.41E-02	3.67E-03	1.99E-03
30	258457.7	4085135	6.83E-03	1.04E-03	5.63E-04
31	258444.4	4085170	5.78E-03	8.80E-04	4.76E-04
32	258420.5	4085196	5.67E-03	8.64E-04	4.67E-04
33	258386.1	4085212	6.37E-03	9.70E-04	5.25E-04
34	258463.7	4085092	9.21E-03	1.40E-03	7.59E-04
35	258463	4085068	1.14E-02	1.74E-03	9.40E-04
36	258462.3	4085043	1.37E-02	2.09E-03	1.13E-03
37	258461.5	4085018	1.59E-02	2.43E-03	1.31E-03
38	258460.8	4084993	1.77E-02	2.69E-03	1.46E-03
39	258460.1	4084969	1.88E-02	2.87E-03	1.55E-03
40	258459.4	4084944	1.93E-02	2.94E-03	1.59E-03

41	258458.6	4084919	1.91E-02	2.91E-03	1.57E-03
42	258506.4	4085137	4.84E-03	7.37E-04	3.99E-04
43	258498.4	4085158	4.47E-03	6.81E-04	3.68E-04
44	258490.4	4085180	4.13E-03	6.29E-04	3.41E-04
45	258482.4	4085201	3.83E-03	5.84E-04	3.16E-04
46	258453.7	4085232	3.77E-03	5.75E-04	3.11E-04
47	258433.1	4085241	3.99E-03	6.09E-04	3.29E-04
48	258412.4	4085251	4.22E-03	6.43E-04	3.48E-04
49	258391.8	4085260	4.45E-03	6.77E-04	3.66E-04
50	258514.4	4085116	5.23E-03	7.96E-04	4.31E-04
51	258513.7	4085091	6.12E-03	9.32E-04	5.05E-04
52	258513	4085066	7.19E-03	1.10E-03	5.93E-04
53	258512.2	4085041	8.40E-03	1.28E-03	6.92E-04
54	258511.5	4085017	9.64E-03	1.47E-03	7.95E-04
55	258510.8	4084992	1.08E-02	1.64E-03	8.90E-04
56	258510.1	4084967	1.18E-02	1.79E-03	9.69E-04
57	258509.3	4084942	1.24E-02	1.90E-03	1.03E-03
58	258508.6	4084918	1.28E-02	1.95E-03	1.05E-03
59	258556.8	4085135	3.71E-03	5.65E-04	3.05E-04
60	258541.5	4085175	3.28E-03	5.00E-04	2.70E-04
61	258526.2	4085216	2.90E-03	4.42E-04	2.39E-04
62	258491.3	4085265	2.71E-03	4.12E-04	2.23E-04
63	258452	4085284	2.96E-03	4.52E-04	2.44E-04
64	258412.6	4085302	3.23E-03	4.92E-04	2.66E-04
65	258563.7	4085090	4.45E-03	6.79E-04	3.67E-04
66	258562.9	4085065	5.07E-03	7.72E-04	4.18E-04
67	258562.2	4085040	5.76E-03	8.78E-04	4.75E-04
68	258561.5	4085015	6.50E-03	9.91E-04	5.36E-04
69	258560.8	4084990	7.25E-03	1.10E-03	5.97E-04
70	258560	4084966	7.94E-03	1.21E-03	6.55E-04
71	258559.3	4084941	8.54E-03	1.30E-03	7.04E-04
72	258558.6	4084916	8.97E-03	1.37E-03	7.40E-04
73	258606	4085135	2.93E-03	4.46E-04	2.41E-04
74	258597.7	4085157	2.77E-03	4.22E-04	2.28E-04
75	258589.3	4085179	2.62E-03	3.99E-04	2.16E-04
76	258581	4085202	2.47E-03	3.76E-04	2.04E-04
77	258572.6	4085224	2.33E-03	3.55E-04	1.92E-04
78	258564.3	4085246	2.20E-03	3.36E-04	1.82E-04
79	258556	4085268	2.08E-03	3.18E-04	1.72E-04
80	258526.1	4085300	2.06E-03	3.14E-04	1.70E-04
81	258504.6	4085310	2.15E-03	3.28E-04	1.78E-04
82	258483.1	4085320	2.25E-03	3.43E-04	1.86E-04
83	258461.6	4085330	2.35E-03	3.58E-04	1.94E-04
84	258440.1	4085340	2.44E-03	3.72E-04	2.02E-04
85	258418.5	4085350	2.54E-03	3.87E-04	2.09E-04
86	258397	4085360	2.64E-03	4.02E-04	2.17E-04
87	258614.4	4085113	3.08E-03	4.69E-04	2.54E-04

88	258613.6	4085088	3.42E-03	5.21E-04	2.82E-04
89	258612.9	4085063	3.81E-03	5.80E-04	3.14E-04
90	258612.2	4085039	4.24E-03	6.46E-04	3.50E-04
91	258611.5	4085014	4.71E-03	7.18E-04	3.89E-04
92	258610.7	4084989	5.20E-03	7.93E-04	4.29E-04
93	258610	4084964	5.69E-03	8.67E-04	4.69E-04
94	258609.3	4084940	6.15E-03	9.37E-04	5.07E-04
95	258608.6	4084915	6.54E-03	9.97E-04	5.39E-04
96	258656.3	4085133	2.39E-03	3.64E-04	1.97E-04
97	258648.3	4085154	2.29E-03	3.49E-04	1.89E-04
98	258640.3	4085175	2.19E-03	3.33E-04	1.80E-04
99	258632.3	4085197	2.08E-03	3.18E-04	1.72E-04
100	258624.3	4085218	1.99E-03	3.02E-04	1.64E-04
101	258616.3	4085239	1.89E-03	2.88E-04	1.56E-04
102	258608.3	4085260	1.80E-03	2.74E-04	1.49E-04
103	258600.3	4085282	1.72E-03	2.62E-04	1.42E-04
104	258592.3	4085303	1.64E-03	2.50E-04	1.35E-04
105	258563.6	4085334	1.63E-03	2.48E-04	1.34E-04
106	258542.9	4085343	1.69E-03	2.57E-04	1.39E-04
107	258522.3	4085353	1.75E-03	2.67E-04	1.44E-04
108	258501.6	4085363	1.82E-03	2.77E-04	1.50E-04
109	258481	4085372	1.89E-03	2.88E-04	1.56E-04
110	258460.3	4085382	1.95E-03	2.97E-04	1.61E-04
111	258439.7	4085391	2.01E-03	3.07E-04	1.66E-04
112	258419	4085401	2.08E-03	3.17E-04	1.71E-04
113	258398.4	4085410	2.15E-03	3.27E-04	1.77E-04
114	258664.3	4085111	2.49E-03	3.80E-04	2.05E-04
115	258663.6	4085087	2.72E-03	4.15E-04	2.25E-04
116	258662.9	4085062	2.99E-03	4.55E-04	2.46E-04
117	258662.2	4085037	3.28E-03	4.99E-04	2.70E-04
118	258661.4	4085012	3.59E-03	5.47E-04	2.96E-04
119	258660.7	4084988	3.93E-03	5.99E-04	3.24E-04
120	258660	4084963	4.27E-03	6.51E-04	3.52E-04
121	258659.3	4084938	4.62E-03	7.03E-04	3.81E-04
122	258658.6	4084913	4.93E-03	7.52E-04	4.07E-04
123	258756.1	4085130	1.69E-03	2.57E-04	1.39E-04
124	258747.9	4085152	1.63E-03	2.49E-04	1.35E-04
125	258739.6	4085174	1.58E-03	2.40E-04	1.30E-04
126	258731.4	4085196	1.52E-03	2.32E-04	1.25E-04
127	258723.2	4085218	1.46E-03	2.23E-04	1.21E-04
128	258715	4085239	1.41E-03	2.14E-04	1.16E-04
129	258706.8	4085261	1.35E-03	2.06E-04	1.11E-04
130	258698.6	4085283	1.30E-03	1.98E-04	1.07E-04
131	258690.4	4085305	1.25E-03	1.90E-04	1.03E-04
132	258682.1	4085327	1.20E-03	1.82E-04	9.86E-05
133	258673.9	4085349	1.15E-03	1.76E-04	9.51E-05
134	258665.7	4085371	1.11E-03	1.69E-04	9.16E-05

135	258636.3	4085402	1.11E-03	1.68E-04	9.11E-05
136	258615.1	4085412	1.14E-03	1.73E-04	9.38E-05
137	258594	4085422	1.17E-03	1.79E-04	9.67E-05
138	258572.8	4085432	1.21E-03	1.85E-04	9.99E-05
139	258551.6	4085441	1.25E-03	1.91E-04	1.03E-04
140	258530.4	4085451	1.29E-03	1.97E-04	1.07E-04
141	258509.2	4085461	1.33E-03	2.03E-04	1.10E-04
142	258488.1	4085471	1.37E-03	2.08E-04	1.13E-04
143	258466.9	4085481	1.40E-03	2.14E-04	1.16E-04
144	258445.7	4085490	1.44E-03	2.19E-04	1.19E-04
145	258424.5	4085500	1.48E-03	2.25E-04	1.22E-04
146	258403.3	4085510	1.52E-03	2.31E-04	1.25E-04
147	258764.3	4085108	1.74E-03	2.66E-04	1.44E-04
148	258763.6	4085084	1.87E-03	2.84E-04	1.54E-04
149	258762.8	4085059	2.00E-03	3.05E-04	1.65E-04
150	258762.1	4085034	2.15E-03	3.28E-04	1.78E-04
151	258761.4	4085009	2.32E-03	3.53E-04	1.91E-04
152	258760.7	4084985	2.49E-03	3.79E-04	2.05E-04
153	258760	4084960	2.68E-03	4.08E-04	2.21E-04
154	258759.2	4084935	2.87E-03	4.37E-04	2.37E-04
155	258758.5	4084910	3.06E-03	4.67E-04	2.53E-04
156	258855.9	4085128	1.27E-03	1.94E-04	1.05E-04
157	258847.6	4085150	1.24E-03	1.89E-04	1.02E-04
158	258839.2	4085172	1.20E-03	1.83E-04	9.92E-05
159	258830.9	4085194	1.17E-03	1.78E-04	9.62E-05
160	258822.5	4085216	1.13E-03	1.72E-04	9.32E-05
161	258814.2	4085239	1.09E-03	1.67E-04	9.02E-05
162	258805.8	4085261	1.06E-03	1.61E-04	8.73E-05
163	258797.5	4085283	1.03E-03	1.56E-04	8.45E-05
164	258789.2	4085305	9.91E-04	1.51E-04	8.17E-05
165	258780.8	4085327	9.53E-04	1.45E-04	7.86E-05
166	258772.5	4085350	9.21E-04	1.40E-04	7.59E-05
167	258764.1	4085372	8.91E-04	1.36E-04	7.35E-05
168	258755.8	4085394	8.63E-04	1.31E-04	7.12E-05
169	258747.4	4085416	8.37E-04	1.27E-04	6.90E-05
170	258739.1	4085438	8.12E-04	1.24E-04	6.69E-05
171	258709.2	4085470	8.07E-04	1.23E-04	6.65E-05
172	258687.7	4085480	8.25E-04	1.26E-04	6.80E-05
173	258666.2	4085490	8.46E-04	1.29E-04	6.97E-05
174	258644.7	4085500	8.68E-04	1.32E-04	7.16E-05
175	258623.2	4085510	8.94E-04	1.36E-04	7.37E-05
176	258601.7	4085520	9.22E-04	1.40E-04	7.60E-05
177	258580.2	4085530	9.50E-04	1.45E-04	7.83E-05
178	258558.7	4085540	9.79E-04	1.49E-04	8.07E-05
179	258537.2	4085550	1.01E-03	1.53E-04	8.29E-05
180	258515.7	4085560	1.03E-03	1.57E-04	8.47E-05
181	258494.1	4085570	1.05E-03	1.60E-04	8.65E-05

182	258472.6	4085580	1.07E-03	1.63E-04	8.83E-05
183	258451.1	4085590	1.10E-03	1.67E-04	9.03E-05
184	258429.6	4085600	1.12E-03	1.71E-04	9.25E-05
185	258408.1	4085610	1.15E-03	1.75E-04	9.48E-05
186	258864.3	4085106	1.30E-03	1.99E-04	1.07E-04
187	258863.5	4085081	1.38E-03	2.10E-04	1.13E-04
188	258862.8	4085056	1.46E-03	2.22E-04	1.20E-04
189	258862.1	4085031	1.54E-03	2.35E-04	1.27E-04
190	258861.4	4085007	1.64E-03	2.50E-04	1.35E-04
191	258860.6	4084982	1.74E-03	2.65E-04	1.43E-04
192	258859.9	4084957	1.85E-03	2.82E-04	1.53E-04
193	258859.2	4084932	1.97E-03	3.00E-04	1.62E-04
194	258858.5	4084907	2.09E-03	3.18E-04	1.72E-04
195	258955.8	4085125	1.00E-03	1.53E-04	8.26E-05
196	258947.3	4085147	9.81E-04	1.49E-04	8.08E-05
197	258938.9	4085170	9.58E-04	1.46E-04	7.89E-05
198	258930.5	4085192	9.33E-04	1.42E-04	7.69E-05
199	258922.1	4085215	9.08E-04	1.38E-04	7.49E-05
200	258913.6	4085237	8.83E-04	1.34E-04	7.28E-05
201	258905.2	4085260	8.58E-04	1.31E-04	7.07E-05
202	258896.8	4085282	8.32E-04	1.27E-04	6.85E-05
203	258888.3	4085304	8.06E-04	1.23E-04	6.64E-05
204	258879.9	4085327	7.84E-04	1.19E-04	6.46E-05
205	258871.5	4085349	7.63E-04	1.16E-04	6.29E-05
206	258863	4085372	7.42E-04	1.13E-04	6.11E-05
207	258854.6	4085394	7.21E-04	1.10E-04	5.94E-05
208	258846.2	4085416	7.01E-04	1.07E-04	5.78E-05
209	258837.7	4085439	6.82E-04	1.04E-04	5.62E-05
210	258829.3	4085461	6.63E-04	1.01E-04	5.47E-05
211	258820.9	4085484	6.46E-04	9.84E-05	5.33E-05
212	258812.4	4085506	6.30E-04	9.60E-05	5.19E-05
213	258782.3	4085539	6.27E-04	9.54E-05	5.16E-05
214	258760.5	4085549	6.39E-04	9.73E-05	5.26E-05
215	258738.8	4085559	6.51E-04	9.92E-05	5.37E-05
216	258717.1	4085569	6.65E-04	1.01E-04	5.49E-05
217	258695.3	4085579	6.81E-04	1.04E-04	5.62E-05
218	258673.6	4085589	6.99E-04	1.06E-04	5.76E-05
219	258651.9	4085599	7.18E-04	1.09E-04	5.92E-05
220	258630.1	4085609	7.38E-04	1.12E-04	6.08E-05
221	258608.4	4085619	7.57E-04	1.15E-04	6.24E-05
222	258586.6	4085629	7.75E-04	1.18E-04	6.39E-05
223	258564.9	4085639	7.93E-04	1.21E-04	6.53E-05
224	258543.2	4085649	8.08E-04	1.23E-04	6.66E-05
225	258521.4	4085659	8.20E-04	1.25E-04	6.76E-05
226	258499.7	4085669	8.38E-04	1.28E-04	6.91E-05
227	258478	4085679	8.54E-04	1.30E-04	7.04E-05
228	258456.2	4085689	8.70E-04	1.33E-04	7.17E-05

229	258434.5	4085699	8.90E-04	1.36E-04	7.34E-05
230	258412.8	4085709	9.10E-04	1.39E-04	7.50E-05
231	258964.2	4085103	1.02E-03	1.56E-04	8.42E-05
232	258963.5	4085078	1.07E-03	1.63E-04	8.80E-05
233	258962.8	4085053	1.12E-03	1.70E-04	9.22E-05
234	258962	4085028	1.17E-03	1.79E-04	9.68E-05
235	258961.3	4085004	1.23E-03	1.88E-04	1.02E-04
236	258960.6	4084979	1.30E-03	1.98E-04	1.07E-04
237	258959.9	4084954	1.37E-03	2.09E-04	1.13E-04
238	258959.2	4084929	1.45E-03	2.20E-04	1.19E-04
239	258958.4	4084905	1.53E-03	2.32E-04	1.26E-04
240	259055.7	4085122	8.17E-04	1.24E-04	6.73E-05
241	259047.2	4085145	8.03E-04	1.22E-04	6.62E-05
242	259038.7	4085167	7.88E-04	1.20E-04	6.49E-05
243	259030.2	4085190	7.69E-04	1.17E-04	6.34E-05
244	259021.7	4085213	7.49E-04	1.14E-04	6.17E-05
245	259013.2	4085235	7.29E-04	1.11E-04	6.01E-05
246	259004.7	4085258	7.10E-04	1.08E-04	5.85E-05
247	258996.2	4085280	6.92E-04	1.05E-04	5.70E-05
248	258987.7	4085303	6.75E-04	1.03E-04	5.56E-05
249	258979.2	4085326	6.59E-04	1.00E-04	5.43E-05
250	258970.7	4085348	6.43E-04	9.80E-05	5.30E-05
251	258962.2	4085371	6.29E-04	9.58E-05	5.18E-05
252	258953.7	4085393	6.14E-04	9.36E-05	5.06E-05
253	258945.2	4085416	6.00E-04	9.14E-05	4.94E-05
254	258936.7	4085438	5.86E-04	8.92E-05	4.83E-05
255	258928.2	4085461	5.72E-04	8.71E-05	4.71E-05
256	258919.8	4085484	5.58E-04	8.50E-05	4.60E-05
257	258911.3	4085506	5.44E-04	8.29E-05	4.49E-05
258	258902.8	4085529	5.32E-04	8.10E-05	4.38E-05
259	258894.3	4085551	5.20E-04	7.92E-05	4.28E-05
260	258885.8	4085574	5.09E-04	7.75E-05	4.19E-05
261	258855.4	4085607	5.06E-04	7.71E-05	4.17E-05
262	258833.5	4085617	5.14E-04	7.84E-05	4.24E-05
263	258811.6	4085627	5.23E-04	7.97E-05	4.31E-05
264	258789.7	4085637	5.33E-04	8.12E-05	4.39E-05
265	258767.8	4085647	5.43E-04	8.27E-05	4.48E-05
266	258745.9	4085657	5.55E-04	8.45E-05	4.57E-05
267	258724	4085667	5.68E-04	8.65E-05	4.68E-05
268	258702.1	4085678	5.82E-04	8.87E-05	4.80E-05
269	258680.2	4085688	5.97E-04	9.10E-05	4.92E-05
270	258658.3	4085698	6.12E-04	9.33E-05	5.05E-05
271	258636.4	4085708	6.27E-04	9.55E-05	5.17E-05
272	258614.5	4085718	6.40E-04	9.74E-05	5.27E-05
273	258592.6	4085728	6.51E-04	9.92E-05	5.37E-05
274	258570.7	4085738	6.62E-04	1.01E-04	5.46E-05
275	258548.8	4085749	6.73E-04	1.02E-04	5.55E-05

276	258526.8	4085759	6.84E-04	1.04E-04	5.64E-05
277	258504.9	4085769	6.96E-04	1.06E-04	5.74E-05
278	258483	4085779	7.10E-04	1.08E-04	5.85E-05
279	258461.1	4085789	7.25E-04	1.10E-04	5.97E-05
280	258439.2	4085799	7.40E-04	1.13E-04	6.10E-05
281	258417.3	4085809	7.56E-04	1.15E-04	6.23E-05
282	259064.2	4085100	8.29E-04	1.26E-04	6.84E-05
283	259063.4	4085075	8.60E-04	1.31E-04	7.09E-05
284	259062.7	4085050	8.94E-04	1.36E-04	7.37E-05
285	259062	4085025	9.32E-04	1.42E-04	7.68E-05
286	259061.3	4085001	9.73E-04	1.48E-04	8.02E-05
287	259060.6	4084976	1.02E-03	1.55E-04	8.40E-05
288	259059.8	4084951	1.07E-03	1.63E-04	8.80E-05
289	259059.1	4084926	1.12E-03	1.70E-04	9.22E-05
290	259058.4	4084902	1.17E-03	1.79E-04	9.67E-05
291	259255.5	4085117	5.85E-04	8.91E-05	4.82E-05
292	259246.9	4085139	5.79E-04	8.82E-05	4.77E-05
293	259238.3	4085162	5.72E-04	8.72E-05	4.72E-05
294	259229.8	4085185	5.63E-04	8.58E-05	4.64E-05
295	259221.2	4085208	5.52E-04	8.40E-05	4.55E-05
296	259212.6	4085231	5.40E-04	8.23E-05	4.45E-05
297	259204	4085254	5.28E-04	8.05E-05	4.35E-05
298	259195.4	4085276	5.16E-04	7.86E-05	4.25E-05
299	259186.8	4085299	5.04E-04	7.68E-05	4.16E-05
300	259178.3	4085322	4.93E-04	7.51E-05	4.06E-05
301	259169.7	4085345	4.82E-04	7.35E-05	3.98E-05
302	259161.1	4085368	4.73E-04	7.20E-05	3.90E-05
303	259152.5	4085390	4.64E-04	7.07E-05	3.82E-05
304	259143.9	4085413	4.56E-04	6.94E-05	3.76E-05
305	259135.4	4085436	4.48E-04	6.83E-05	3.69E-05
306	259126.8	4085459	4.41E-04	6.71E-05	3.63E-05
307	259118.2	4085482	4.33E-04	6.60E-05	3.57E-05
308	259109.6	4085505	4.26E-04	6.49E-05	3.51E-05
309	259101	4085527	4.19E-04	6.38E-05	3.45E-05
310	259092.4	4085550	4.11E-04	6.26E-05	3.39E-05
311	259083.9	4085573	4.04E-04	6.15E-05	3.33E-05
312	259075.3	4085596	3.96E-04	6.03E-05	3.26E-05
313	259066.7	4085619	3.88E-04	5.91E-05	3.20E-05
314	259058.1	4085641	3.81E-04	5.80E-05	3.14E-05
315	259049.5	4085664	3.74E-04	5.69E-05	3.08E-05
316	259041	4085687	3.67E-04	5.59E-05	3.03E-05
317	259032.4	4085710	3.61E-04	5.50E-05	2.98E-05
318	259001.7	4085743	3.60E-04	5.48E-05	2.97E-05
319	258979.5	4085753	3.64E-04	5.55E-05	3.00E-05
320	258957.4	4085763	3.69E-04	5.63E-05	3.04E-05
321	258935.3	4085774	3.74E-04	5.70E-05	3.09E-05
322	258913.2	4085784	3.80E-04	5.79E-05	3.13E-05

323	258891	4085794	3.86E-04	5.88E-05	3.18E-05
324	258868.9	4085804	3.92E-04	5.98E-05	3.23E-05
325	258846.8	4085815	3.99E-04	6.08E-05	3.29E-05
326	258824.7	4085825	4.08E-04	6.21E-05	3.36E-05
327	258802.5	4085835	4.16E-04	6.34E-05	3.43E-05
328	258780.4	4085845	4.26E-04	6.49E-05	3.51E-05
329	258758.3	4085856	4.37E-04	6.65E-05	3.60E-05
330	258736.2	4085866	4.47E-04	6.81E-05	3.68E-05
331	258714	4085876	4.57E-04	6.96E-05	3.76E-05
332	258691.9	4085886	4.66E-04	7.10E-05	3.84E-05
333	258669.8	4085896	4.74E-04	7.22E-05	3.91E-05
334	258647.7	4085907	4.81E-04	7.33E-05	3.97E-05
335	258625.5	4085917	4.88E-04	7.43E-05	4.02E-05
336	258603.4	4085927	4.95E-04	7.54E-05	4.08E-05
337	258581.3	4085937	5.01E-04	7.64E-05	4.13E-05
338	258559.2	4085948	5.09E-04	7.75E-05	4.19E-05
339	258537	4085958	5.16E-04	7.87E-05	4.26E-05
340	258514.9	4085968	5.24E-04	7.99E-05	4.32E-05
341	258492.8	4085978	5.33E-04	8.12E-05	4.39E-05
342	258470.7	4085989	5.41E-04	8.25E-05	4.46E-05
343	258448.5	4085999	5.50E-04	8.38E-05	4.54E-05
344	258426.4	4086009	5.59E-04	8.52E-05	4.61E-05
345	259264.1	4085094	5.90E-04	8.99E-05	4.86E-05
346	259263.4	4085069	6.05E-04	9.22E-05	4.99E-05
347	259262.6	4085044	6.23E-04	9.49E-05	5.13E-05
348	259261.9	4085020	6.43E-04	9.79E-05	5.30E-05
349	259261.2	4084995	6.66E-04	1.01E-04	5.49E-05
350	259260.5	4084970	6.91E-04	1.05E-04	5.70E-05
351	259259.7	4084945	7.19E-04	1.09E-04	5.92E-05
352	259259	4084921	7.47E-04	1.14E-04	6.16E-05
353	259258.3	4084896	7.76E-04	1.18E-04	6.40E-05
354	259455.4	4085111	4.49E-04	6.84E-05	3.70E-05
355	259446.7	4085134	4.47E-04	6.81E-05	3.68E-05
356	259438.1	4085157	4.44E-04	6.76E-05	3.66E-05
357	259429.4	4085180	4.40E-04	6.71E-05	3.63E-05
358	259420.8	4085203	4.35E-04	6.63E-05	3.59E-05
359	259412.2	4085226	4.29E-04	6.53E-05	3.53E-05
360	259403.5	4085249	4.21E-04	6.42E-05	3.47E-05
361	259394.9	4085272	4.13E-04	6.29E-05	3.41E-05
362	259386.3	4085295	4.04E-04	6.16E-05	3.33E-05
363	259377.6	4085318	3.95E-04	6.02E-05	3.26E-05
364	259369	4085341	3.86E-04	5.88E-05	3.18E-05
365	259360.3	4085364	3.78E-04	5.76E-05	3.11E-05
366	259351.7	4085387	3.71E-04	5.65E-05	3.05E-05
367	259343.1	4085410	3.64E-04	5.54E-05	3.00E-05
368	259334.4	4085433	3.58E-04	5.45E-05	2.95E-05
369	259325.8	4085455	3.53E-04	5.38E-05	2.91E-05

370	259317.2	4085478	3.48E-04	5.30E-05	2.87E-05
371	259308.5	4085501	3.43E-04	5.23E-05	2.83E-05
372	259299.9	4085524	3.39E-04	5.17E-05	2.80E-05
373	259291.2	4085547	3.35E-04	5.10E-05	2.76E-05
374	259282.6	4085570	3.31E-04	5.04E-05	2.73E-05
375	259274	4085593	3.27E-04	4.98E-05	2.69E-05
376	259265.3	4085616	3.23E-04	4.92E-05	2.66E-05
377	259256.7	4085639	3.18E-04	4.85E-05	2.62E-05
378	259248.1	4085662	3.14E-04	4.78E-05	2.59E-05
379	259239.4	4085685	3.09E-04	4.71E-05	2.55E-05
380	259230.8	4085708	3.04E-04	4.63E-05	2.51E-05
381	259222.1	4085731	2.99E-04	4.56E-05	2.46E-05
382	259213.5	4085754	2.94E-04	4.48E-05	2.42E-05
383	259204.9	4085777	2.89E-04	4.41E-05	2.38E-05
384	259196.2	4085800	2.85E-04	4.34E-05	2.35E-05
385	259187.6	4085823	2.81E-04	4.28E-05	2.31E-05
386	259179	4085846	2.77E-04	4.22E-05	2.28E-05
387	259148	4085879	2.77E-04	4.21E-05	2.28E-05
388	259125.8	4085889	2.80E-04	4.26E-05	2.31E-05
389	259103.5	4085900	2.83E-04	4.31E-05	2.33E-05
390	259081.2	4085910	2.87E-04	4.37E-05	2.36E-05
391	259059	4085920	2.90E-04	4.42E-05	2.39E-05
392	259036.7	4085931	2.94E-04	4.48E-05	2.42E-05
393	259014.4	4085941	2.98E-04	4.54E-05	2.45E-05
394	258992.2	4085951	3.02E-04	4.60E-05	2.49E-05
395	258969.9	4085962	3.06E-04	4.66E-05	2.52E-05
396	258947.6	4085972	3.10E-04	4.73E-05	2.56E-05
397	258925.3	4085982	3.16E-04	4.81E-05	2.60E-05
398	258903.1	4085992	3.22E-04	4.91E-05	2.65E-05
399	258880.8	4086003	3.29E-04	5.01E-05	2.71E-05
400	258858.5	4086013	3.37E-04	5.13E-05	2.78E-05
401	258836.3	4086023	3.45E-04	5.25E-05	2.84E-05
402	258814	4086034	3.53E-04	5.37E-05	2.91E-05
403	258791.7	4086044	3.60E-04	5.49E-05	2.97E-05
404	258769.5	4086054	3.67E-04	5.59E-05	3.03E-05
405	258747.2	4086065	3.73E-04	5.69E-05	3.08E-05
406	258724.9	4086075	3.79E-04	5.77E-05	3.12E-05
407	258702.6	4086085	3.83E-04	5.84E-05	3.16E-05
408	258680.4	4086095	3.87E-04	5.90E-05	3.19E-05
409	258658.1	4086106	3.91E-04	5.96E-05	3.22E-05
410	258635.8	4086116	3.95E-04	6.01E-05	3.25E-05
411	258613.6	4086126	3.99E-04	6.07E-05	3.29E-05
412	258591.3	4086137	4.03E-04	6.13E-05	3.32E-05
413	258569	4086147	4.07E-04	6.20E-05	3.36E-05
414	258546.8	4086157	4.12E-04	6.27E-05	3.39E-05
415	258524.5	4086168	4.17E-04	6.35E-05	3.44E-05
416	258502.2	4086178	4.22E-04	6.44E-05	3.48E-05

417	258479.9	4086188	4.29E-04	6.53E-05	3.53E-05
418	258457.7	4086198	4.34E-04	6.62E-05	3.58E-05
419	258435.4	4086209	4.41E-04	6.73E-05	3.64E-05
420	259464	4085088	4.51E-04	6.87E-05	3.72E-05
421	259463.3	4085063	4.60E-04	7.00E-05	3.79E-05
422	259462.6	4085039	4.71E-04	7.17E-05	3.88E-05
423	259461.8	4085014	4.83E-04	7.36E-05	3.98E-05
424	259461.1	4084989	4.98E-04	7.59E-05	4.11E-05
425	259460.4	4084964	5.15E-04	7.84E-05	4.24E-05
426	259459.7	4084939	5.33E-04	8.12E-05	4.39E-05
427	259458.9	4084915	5.51E-04	8.40E-05	4.55E-05
428	259458.2	4084890	5.70E-04	8.68E-05	4.70E-05
429	259655.2	4085105	3.62E-04	5.52E-05	2.99E-05
430	259646.6	4085128	3.62E-04	5.51E-05	2.98E-05
431	259637.9	4085151	3.61E-04	5.50E-05	2.98E-05
432	259629.2	4085174	3.59E-04	5.47E-05	2.96E-05
433	259620.5	4085198	3.57E-04	5.44E-05	2.94E-05
434	259611.8	4085221	3.54E-04	5.39E-05	2.91E-05
435	259603.2	4085244	3.49E-04	5.32E-05	2.88E-05
436	259594.5	4085267	3.44E-04	5.24E-05	2.84E-05
437	259585.8	4085290	3.38E-04	5.15E-05	2.79E-05
438	259577.1	4085313	3.32E-04	5.05E-05	2.73E-05
439	259568.5	4085336	3.25E-04	4.95E-05	2.68E-05
440	259559.8	4085359	3.18E-04	4.85E-05	2.62E-05
441	259551.1	4085382	3.12E-04	4.75E-05	2.57E-05
442	259542.4	4085405	3.06E-04	4.66E-05	2.52E-05
443	259533.8	4085428	3.00E-04	4.58E-05	2.48E-05
444	259525.1	4085451	2.95E-04	4.50E-05	2.43E-05
445	259516.4	4085474	2.90E-04	4.42E-05	2.39E-05
446	259507.7	4085497	2.86E-04	4.36E-05	2.36E-05
447	259499	4085521	2.83E-04	4.31E-05	2.33E-05
448	259490.4	4085544	2.80E-04	4.26E-05	2.31E-05
449	259481.7	4085567	2.77E-04	4.22E-05	2.28E-05
450	259473	4085590	2.74E-04	4.18E-05	2.26E-05
451	259464.3	4085613	2.72E-04	4.14E-05	2.24E-05
452	259455.7	4085636	2.69E-04	4.10E-05	2.22E-05
453	259447	4085659	2.67E-04	4.07E-05	2.20E-05
454	259438.3	4085682	2.65E-04	4.03E-05	2.18E-05
455	259429.6	4085705	2.62E-04	3.99E-05	2.16E-05
456	259421	4085728	2.59E-04	3.95E-05	2.14E-05
457	259412.3	4085751	2.57E-04	3.91E-05	2.11E-05
458	259403.6	4085774	2.53E-04	3.86E-05	2.09E-05
459	259394.9	4085797	2.50E-04	3.81E-05	2.06E-05
460	259386.2	4085820	2.47E-04	3.76E-05	2.03E-05
461	259377.6	4085843	2.43E-04	3.70E-05	2.00E-05
462	259368.9	4085867	2.39E-04	3.64E-05	1.97E-05
463	259360.2	4085890	2.36E-04	3.59E-05	1.94E-05

464	259351.5	4085913	2.32E-04	3.54E-05	1.92E-05
465	259342.9	4085936	2.29E-04	3.49E-05	1.89E-05
466	259334.2	4085959	2.27E-04	3.45E-05	1.87E-05
467	259325.5	4085982	2.25E-04	3.42E-05	1.85E-05
468	259294.5	4086015	2.25E-04	3.42E-05	1.85E-05
469	259272.1	4086026	2.27E-04	3.46E-05	1.87E-05
470	259249.7	4086036	2.30E-04	3.50E-05	1.89E-05
471	259227.3	4086046	2.32E-04	3.54E-05	1.91E-05
472	259205	4086057	2.34E-04	3.57E-05	1.93E-05
473	259182.6	4086067	2.37E-04	3.61E-05	1.95E-05
474	259160.2	4086077	2.39E-04	3.64E-05	1.97E-05
475	259137.9	4086088	2.42E-04	3.69E-05	1.99E-05
476	259115.5	4086098	2.45E-04	3.73E-05	2.02E-05
477	259093.1	4086108	2.48E-04	3.78E-05	2.04E-05
478	259070.7	4086119	2.51E-04	3.83E-05	2.07E-05
479	259048.4	4086129	2.55E-04	3.89E-05	2.10E-05
480	259026	4086139	2.60E-04	3.96E-05	2.14E-05
481	259003.6	4086150	2.65E-04	4.03E-05	2.18E-05
482	258981.3	4086160	2.70E-04	4.11E-05	2.23E-05
483	258958.9	4086171	2.76E-04	4.21E-05	2.28E-05
484	258936.5	4086181	2.82E-04	4.30E-05	2.33E-05
485	258914.2	4086191	2.89E-04	4.40E-05	2.38E-05
486	258891.8	4086202	2.95E-04	4.50E-05	2.43E-05
487	258869.4	4086212	3.01E-04	4.59E-05	2.48E-05
488	258847	4086222	3.07E-04	4.67E-05	2.53E-05
489	258824.7	4086233	3.11E-04	4.74E-05	2.57E-05
490	258802.3	4086243	3.15E-04	4.80E-05	2.60E-05
491	258779.9	4086253	3.18E-04	4.84E-05	2.62E-05
492	258757.6	4086264	3.20E-04	4.88E-05	2.64E-05
493	258735.2	4086274	3.23E-04	4.91E-05	2.66E-05
494	258712.8	4086284	3.25E-04	4.94E-05	2.68E-05
495	258690.4	4086295	3.26E-04	4.97E-05	2.69E-05
496	258668.1	4086305	3.29E-04	5.01E-05	2.71E-05
497	258645.7	4086315	3.31E-04	5.04E-05	2.73E-05
498	258623.3	4086326	3.34E-04	5.09E-05	2.75E-05
499	258601	4086336	3.37E-04	5.13E-05	2.78E-05
500	258578.6	4086346	3.41E-04	5.19E-05	2.81E-05
501	258556.2	4086357	3.44E-04	5.24E-05	2.84E-05
502	258533.8	4086367	3.48E-04	5.31E-05	2.87E-05
503	258511.5	4086377	3.52E-04	5.37E-05	2.90E-05
504	258489.1	4086388	3.57E-04	5.43E-05	2.94E-05
505	258466.7	4086398	3.61E-04	5.50E-05	2.98E-05
506	258444.4	4086408	3.65E-04	5.57E-05	3.01E-05
507	259663.9	4085082	3.63E-04	5.54E-05	3.00E-05
508	259663.2	4085057	3.69E-04	5.62E-05	3.04E-05
509	259662.5	4085033	3.76E-04	5.73E-05	3.10E-05
510	259661.7	4085008	3.84E-04	5.85E-05	3.17E-05

511	259661	4084983	3.94E-04	6.00E-05	3.25E-05
512	259660.3	4084958	4.06E-04	6.18E-05	3.34E-05
513	259659.6	4084934	4.19E-04	6.38E-05	3.45E-05
514	259658.9	4084909	4.32E-04	6.58E-05	3.56E-05
515	259658.1	4084884	4.45E-04	6.78E-05	3.67E-05
516	259855.1	4085100	3.03E-04	4.62E-05	2.50E-05
517	259846.4	4085123	3.03E-04	4.61E-05	2.50E-05
518	259837.7	4085146	3.03E-04	4.61E-05	2.50E-05
519	259829	4085169	3.02E-04	4.61E-05	2.49E-05
520	259820.3	4085192	3.02E-04	4.60E-05	2.49E-05
521	259811.6	4085215	3.01E-04	4.58E-05	2.48E-05
522	259802.9	4085238	2.98E-04	4.54E-05	2.46E-05
523	259794.2	4085262	2.95E-04	4.50E-05	2.43E-05
524	259785.5	4085285	2.91E-04	4.44E-05	2.40E-05
525	259776.8	4085308	2.87E-04	4.37E-05	2.36E-05
526	259768.1	4085331	2.82E-04	4.29E-05	2.32E-05
527	259759.4	4085354	2.77E-04	4.21E-05	2.28E-05
528	259750.6	4085377	2.71E-04	4.14E-05	2.24E-05
529	259741.9	4085400	2.66E-04	4.06E-05	2.20E-05
530	259733.2	4085424	2.62E-04	3.98E-05	2.16E-05
531	259724.5	4085447	2.57E-04	3.91E-05	2.12E-05
532	259715.8	4085470	2.53E-04	3.85E-05	2.08E-05
533	259707.1	4085493	2.49E-04	3.79E-05	2.05E-05
534	259698.4	4085516	2.45E-04	3.73E-05	2.02E-05
535	259689.7	4085539	2.42E-04	3.68E-05	1.99E-05
536	259681	4085562	2.39E-04	3.64E-05	1.97E-05
537	259672.3	4085586	2.37E-04	3.60E-05	1.95E-05
538	259663.6	4085609	2.34E-04	3.57E-05	1.93E-05
539	259654.9	4085632	2.32E-04	3.54E-05	1.92E-05
540	259646.2	4085655	2.31E-04	3.51E-05	1.90E-05
541	259637.5	4085678	2.29E-04	3.49E-05	1.89E-05
542	259628.8	4085701	2.27E-04	3.47E-05	1.87E-05
543	259620.1	4085724	2.26E-04	3.44E-05	1.86E-05
544	259611.4	4085748	2.24E-04	3.41E-05	1.84E-05
545	259602.6	4085771	2.22E-04	3.39E-05	1.83E-05
546	259593.9	4085794	2.21E-04	3.36E-05	1.82E-05
547	259585.2	4085817	2.19E-04	3.33E-05	1.80E-05
548	259576.5	4085840	2.17E-04	3.31E-05	1.79E-05
549	259567.8	4085863	2.15E-04	3.28E-05	1.77E-05
550	259559.1	4085887	2.13E-04	3.24E-05	1.75E-05
551	259550.4	4085910	2.10E-04	3.20E-05	1.73E-05
552	259541.7	4085933	2.07E-04	3.16E-05	1.71E-05
553	259533	4085956	2.05E-04	3.12E-05	1.69E-05
554	259524.3	4085979	2.02E-04	3.07E-05	1.66E-05
555	259515.6	4086002	1.99E-04	3.03E-05	1.64E-05
556	259506.9	4086025	1.97E-04	3.00E-05	1.62E-05
557	259498.2	4086049	1.94E-04	2.96E-05	1.60E-05

558	259489.5	4086072	1.92E-04	2.93E-05	1.59E-05
559	259480.8	4086095	1.91E-04	2.90E-05	1.57E-05
560	259472.1	4086118	1.89E-04	2.88E-05	1.56E-05
561	259440.9	4086152	1.89E-04	2.88E-05	1.56E-05
562	259418.5	4086162	1.91E-04	2.91E-05	1.57E-05
563	259396	4086172	1.93E-04	2.94E-05	1.59E-05
564	259373.6	4086183	1.95E-04	2.97E-05	1.61E-05
565	259351.1	4086193	1.97E-04	3.00E-05	1.62E-05
566	259328.7	4086203	1.99E-04	3.03E-05	1.64E-05
567	259306.2	4086214	2.01E-04	3.06E-05	1.66E-05
568	259283.8	4086224	2.03E-04	3.09E-05	1.67E-05
569	259261.3	4086235	2.05E-04	3.12E-05	1.69E-05
570	259238.9	4086245	2.07E-04	3.16E-05	1.71E-05
571	259216.4	4086255	2.10E-04	3.20E-05	1.73E-05
572	259194	4086266	2.13E-04	3.24E-05	1.75E-05
573	259171.6	4086276	2.16E-04	3.28E-05	1.78E-05
574	259149.1	4086286	2.19E-04	3.33E-05	1.80E-05
575	259126.7	4086297	2.22E-04	3.39E-05	1.83E-05
576	259104.2	4086307	2.26E-04	3.45E-05	1.87E-05
577	259081.8	4086318	2.31E-04	3.52E-05	1.90E-05
578	259059.3	4086328	2.36E-04	3.59E-05	1.94E-05
579	259036.9	4086338	2.41E-04	3.67E-05	1.98E-05
580	259014.4	4086349	2.46E-04	3.75E-05	2.03E-05
581	258992	4086359	2.51E-04	3.82E-05	2.07E-05
582	258969.5	4086370	2.56E-04	3.90E-05	2.11E-05
583	258947.1	4086380	2.61E-04	3.97E-05	2.15E-05
584	258924.6	4086390	2.64E-04	4.03E-05	2.18E-05
585	258902.2	4086401	2.68E-04	4.08E-05	2.21E-05
586	258879.8	4086411	2.70E-04	4.12E-05	2.23E-05
587	258857.3	4086421	2.72E-04	4.15E-05	2.25E-05
588	258834.9	4086432	2.74E-04	4.17E-05	2.26E-05
589	258812.4	4086442	2.75E-04	4.20E-05	2.27E-05
590	258790	4086453	2.77E-04	4.21E-05	2.28E-05
591	258767.5	4086463	2.78E-04	4.24E-05	2.29E-05
592	258745.1	4086473	2.79E-04	4.26E-05	2.30E-05
593	258722.6	4086484	2.81E-04	4.28E-05	2.31E-05
594	258700.2	4086494	2.82E-04	4.30E-05	2.33E-05
595	258677.7	4086504	2.84E-04	4.33E-05	2.34E-05
596	258655.3	4086515	2.87E-04	4.37E-05	2.36E-05
597	258632.8	4086525	2.89E-04	4.40E-05	2.38E-05
598	258610.4	4086536	2.91E-04	4.44E-05	2.40E-05
599	258588	4086546	2.94E-04	4.48E-05	2.43E-05
600	258565.5	4086556	2.97E-04	4.53E-05	2.45E-05
601	258543.1	4086567	3.00E-04	4.58E-05	2.48E-05
602	258520.6	4086577	3.03E-04	4.62E-05	2.50E-05
603	258498.2	4086588	3.07E-04	4.67E-05	2.53E-05
604	258475.7	4086598	3.10E-04	4.72E-05	2.55E-05

605	258453.3	4086608	3.12E-04	4.76E-05	2.57E-05
606	259863.8	4085076	3.03E-04	4.62E-05	2.50E-05
607	259863.1	4085052	3.07E-04	4.68E-05	2.53E-05
608	259862.4	4085027	3.12E-04	4.75E-05	2.57E-05
609	259861.7	4085002	3.18E-04	4.85E-05	2.62E-05
610	259860.9	4084977	3.26E-04	4.96E-05	2.68E-05
611	259860.2	4084953	3.34E-04	5.09E-05	2.76E-05
612	259859.5	4084928	3.44E-04	5.24E-05	2.84E-05
613	259858.8	4084903	3.54E-04	5.40E-05	2.92E-05
614	259858	4084878	3.64E-04	5.55E-05	3.00E-05
615	258357.7	4084897	3.53E-02	5.38E-03	2.91E-03
616	258333.3	4084898	3.70E-02	5.64E-03	3.05E-03
617	258309	4084899	3.79E-02	5.77E-03	3.12E-03
618	258284.7	4084900	3.84E-02	5.85E-03	3.17E-03
619	258260.3	4084901	3.88E-02	5.91E-03	3.20E-03
620	258236	4084902	3.91E-02	5.96E-03	3.22E-03
621	258211.7	4084903	3.93E-02	5.98E-03	3.24E-03
622	258187.3	4084904	3.93E-02	5.99E-03	3.24E-03
623	258163	4084905	3.94E-02	6.00E-03	3.24E-03
624	258138.7	4084906	3.93E-02	5.99E-03	3.24E-03
625	258114.3	4084907	3.93E-02	5.98E-03	3.24E-03
626	258090	4084908	3.92E-02	5.97E-03	3.23E-03
627	258065.7	4084909	3.90E-02	5.95E-03	3.22E-03
628	258041.3	4084910	3.89E-02	5.92E-03	3.20E-03
629	258017	4084911	3.87E-02	5.89E-03	3.19E-03
630	257992.7	4084912	3.84E-02	5.85E-03	3.17E-03
631	257968.3	4084913	3.81E-02	5.81E-03	3.14E-03
632	257944	4084914	3.78E-02	5.76E-03	3.12E-03
633	257919.7	4084915	3.74E-02	5.69E-03	3.08E-03
634	257895.4	4084916	3.69E-02	5.62E-03	3.04E-03
635	257871	4084917	3.63E-02	5.53E-03	2.99E-03
636	257846.7	4084918	3.56E-02	5.42E-03	2.93E-03
637	257822.4	4084919	3.47E-02	5.29E-03	2.86E-03
638	257798	4084920	3.37E-02	5.13E-03	2.78E-03
639	257773.7	4084921	3.24E-02	4.94E-03	2.67E-03
640	257749.4	4084922	3.09E-02	4.71E-03	2.55E-03
641	257725	4084923	2.91E-02	4.43E-03	2.40E-03
642	257700.7	4084924	2.69E-02	4.10E-03	2.22E-03
643	257676.4	4084925	2.42E-02	3.68E-03	1.99E-03
644	257652	4084926	2.08E-02	3.17E-03	1.72E-03
645	257627.7	4084927	1.67E-02	2.55E-03	1.38E-03
646	257603.4	4084928	1.20E-02	1.82E-03	9.87E-04
647	257579	4084929	7.49E-03	1.14E-03	6.17E-04
648	257554.7	4084930	5.06E-03	7.71E-04	4.17E-04
649	258374.7	4084879	2.62E-02	4.00E-03	2.16E-03
650	258332.3	4084873	2.57E-02	3.92E-03	2.12E-03
651	258308	4084874	2.62E-02	3.98E-03	2.16E-03

652	258283.6	4084875	2.64E-02	4.03E-03	2.18E-03
653	258259.3	4084876	2.67E-02	4.06E-03	2.20E-03
654	258235	4084877	2.68E-02	4.08E-03	2.21E-03
655	258210.6	4084878	2.69E-02	4.10E-03	2.22E-03
656	258186.3	4084879	2.69E-02	4.10E-03	2.22E-03
657	258162	4084880	2.69E-02	4.10E-03	2.22E-03
658	258137.6	4084881	2.69E-02	4.10E-03	2.22E-03
659	258113.3	4084882	2.68E-02	4.09E-03	2.21E-03
660	258089	4084883	2.68E-02	4.08E-03	2.21E-03
661	258064.6	4084884	2.66E-02	4.06E-03	2.19E-03
662	258040.3	4084885	2.64E-02	4.03E-03	2.18E-03
663	258016	4084886	2.62E-02	4.00E-03	2.16E-03
664	257991.7	4084887	2.60E-02	3.96E-03	2.14E-03
665	257967.3	4084888	2.57E-02	3.91E-03	2.12E-03
666	257943	4084889	2.53E-02	3.85E-03	2.08E-03
667	257918.7	4084890	2.49E-02	3.79E-03	2.05E-03
668	257894.3	4084891	2.43E-02	3.71E-03	2.01E-03
669	257870	4084892	2.38E-02	3.62E-03	1.96E-03
670	257845.7	4084893	2.30E-02	3.51E-03	1.90E-03
671	257821.3	4084894	2.22E-02	3.38E-03	1.83E-03
672	257797	4084895	2.12E-02	3.23E-03	1.75E-03
673	257772.7	4084896	2.01E-02	3.06E-03	1.65E-03
674	257748.3	4084897	1.87E-02	2.85E-03	1.54E-03
675	257724	4084898	1.71E-02	2.61E-03	1.41E-03
676	257699.7	4084899	1.53E-02	2.33E-03	1.26E-03
677	257675.3	4084900	1.32E-02	2.01E-03	1.09E-03
678	257651	4084901	1.09E-02	1.66E-03	8.97E-04
679	257626.7	4084902	8.42E-03	1.28E-03	6.94E-04
680	257602.3	4084903	6.15E-03	9.37E-04	5.07E-04
681	257578	4084904	4.48E-03	6.82E-04	3.69E-04
682	257553.7	4084905	3.49E-03	5.31E-04	2.88E-04
683	258373.7	4084854	2.01E-02	3.07E-03	1.66E-03
684	258417.8	4084885	2.28E-02	3.47E-03	1.88E-03
685	258331.3	4084848	1.96E-02	2.99E-03	1.62E-03
686	258306.9	4084849	1.99E-02	3.03E-03	1.64E-03
687	258282.6	4084850	2.00E-02	3.05E-03	1.65E-03
688	258258.3	4084851	2.02E-02	3.07E-03	1.66E-03
689	258233.9	4084852	2.02E-02	3.08E-03	1.67E-03
690	258209.6	4084853	2.03E-02	3.09E-03	1.67E-03
691	258185.3	4084854	2.03E-02	3.09E-03	1.67E-03
692	258160.9	4084855	2.02E-02	3.08E-03	1.67E-03
693	258136.6	4084856	2.02E-02	3.07E-03	1.66E-03
694	258112.3	4084857	2.01E-02	3.06E-03	1.65E-03
695	258088	4084858	2.00E-02	3.04E-03	1.64E-03
696	258063.6	4084859	1.98E-02	3.02E-03	1.63E-03
697	258039.3	4084860	1.96E-02	2.99E-03	1.62E-03
698	258015	4084861	1.94E-02	2.95E-03	1.60E-03

699	257990.6	4084862	1.91E-02	2.91E-03	1.58E-03
700	257966.3	4084863	1.88E-02	2.86E-03	1.55E-03
701	257942	4084864	1.84E-02	2.81E-03	1.52E-03
702	257917.6	4084865	1.80E-02	2.74E-03	1.48E-03
703	257893.3	4084866	1.75E-02	2.66E-03	1.44E-03
704	257869	4084867	1.69E-02	2.57E-03	1.39E-03
705	257844.6	4084868	1.62E-02	2.47E-03	1.33E-03
706	257820.3	4084869	1.54E-02	2.35E-03	1.27E-03
707	257796	4084870	1.45E-02	2.21E-03	1.19E-03
708	257771.6	4084871	1.35E-02	2.05E-03	1.11E-03
709	257747.3	4084872	1.23E-02	1.87E-03	1.01E-03
710	257723	4084873	1.10E-02	1.68E-03	9.06E-04
711	257698.6	4084874	9.58E-03	1.46E-03	7.89E-04
712	257674.3	4084875	8.07E-03	1.23E-03	6.65E-04
713	257650	4084876	6.55E-03	9.97E-04	5.40E-04
714	257625.6	4084877	5.14E-03	7.83E-04	4.24E-04
715	257601.3	4084878	3.99E-03	6.08E-04	3.29E-04
716	257577	4084879	3.17E-03	4.84E-04	2.62E-04
717	257552.7	4084880	2.63E-03	4.01E-04	2.17E-04
718	258372.7	4084829	1.62E-02	2.46E-03	1.33E-03
719	258408.8	4084842	1.70E-02	2.60E-03	1.40E-03
720	258434.8	4084866	1.84E-02	2.80E-03	1.52E-03
721	258330.2	4084823	1.57E-02	2.39E-03	1.29E-03
722	258305.9	4084824	1.58E-02	2.41E-03	1.31E-03
723	258281.6	4084825	1.59E-02	2.43E-03	1.31E-03
724	258257.3	4084826	1.60E-02	2.44E-03	1.32E-03
725	258232.9	4084827	1.60E-02	2.44E-03	1.32E-03
726	258208.6	4084828	1.60E-02	2.44E-03	1.32E-03
727	258184.3	4084829	1.60E-02	2.43E-03	1.32E-03
728	258159.9	4084830	1.59E-02	2.43E-03	1.31E-03
729	258135.6	4084831	1.58E-02	2.41E-03	1.31E-03
730	258111.3	4084832	1.57E-02	2.40E-03	1.30E-03
731	258086.9	4084833	1.56E-02	2.38E-03	1.29E-03
732	258062.6	4084834	1.54E-02	2.35E-03	1.27E-03
733	258038.3	4084835	1.52E-02	2.32E-03	1.25E-03
734	258013.9	4084836	1.50E-02	2.28E-03	1.23E-03
735	257989.6	4084837	1.47E-02	2.24E-03	1.21E-03
736	257965.3	4084838	1.44E-02	2.19E-03	1.18E-03
737	257940.9	4084839	1.40E-02	2.13E-03	1.15E-03
738	257916.6	4084840	1.36E-02	2.06E-03	1.12E-03
739	257892.3	4084841	1.31E-02	1.99E-03	1.08E-03
740	257867.9	4084842	1.25E-02	1.90E-03	1.03E-03
741	257843.6	4084843	1.18E-02	1.81E-03	9.77E-04
742	257819.3	4084844	1.11E-02	1.70E-03	9.17E-04
743	257794.9	4084845	1.03E-02	1.57E-03	8.51E-04
744	257770.6	4084846	9.44E-03	1.44E-03	7.78E-04
745	257746.3	4084847	8.48E-03	1.29E-03	6.99E-04

746	257722	4084848	7.46E-03	1.14E-03	6.15E-04
747	257697.6	4084849	6.40E-03	9.75E-04	5.27E-04
748	257673.3	4084850	5.36E-03	8.16E-04	4.41E-04
749	257649	4084851	4.39E-03	6.68E-04	3.62E-04
750	257624.6	4084852	3.56E-03	5.42E-04	2.93E-04
751	257600.3	4084853	2.91E-03	4.43E-04	2.40E-04
752	257576	4084854	2.43E-03	3.71E-04	2.01E-04
753	257551.6	4084855	2.09E-03	3.19E-04	1.73E-04
754	258374.2	4084780	1.13E-02	1.73E-03	9.34E-04
755	258395.9	4084788	1.18E-02	1.80E-03	9.73E-04
756	258417.6	4084796	1.22E-02	1.85E-03	1.00E-03
757	258439.3	4084804	1.24E-02	1.88E-03	1.02E-03
758	258470.5	4084833	1.32E-02	2.01E-03	1.09E-03
759	258480	4084854	1.38E-02	2.11E-03	1.14E-03
760	258489.6	4084876	1.39E-02	2.12E-03	1.15E-03
761	258499.1	4084897	1.36E-02	2.07E-03	1.12E-03
762	258352.5	4084772	1.08E-02	1.65E-03	8.91E-04
763	258328.2	4084773	1.09E-02	1.66E-03	8.97E-04
764	258303.9	4084774	1.09E-02	1.66E-03	9.01E-04
765	258279.5	4084775	1.09E-02	1.67E-03	9.02E-04
766	258255.2	4084776	1.09E-02	1.66E-03	9.01E-04
767	258230.9	4084777	1.09E-02	1.66E-03	8.98E-04
768	258206.5	4084778	1.08E-02	1.65E-03	8.93E-04
769	258182.2	4084779	1.08E-02	1.64E-03	8.87E-04
770	258157.9	4084780	1.07E-02	1.62E-03	8.79E-04
771	258133.5	4084781	1.05E-02	1.61E-03	8.69E-04
772	258109.2	4084782	1.04E-02	1.59E-03	8.58E-04
773	258084.9	4084783	1.02E-02	1.56E-03	8.44E-04
774	258060.5	4084784	1.00E-02	1.53E-03	8.28E-04
775	258036.2	4084785	9.83E-03	1.50E-03	8.10E-04
776	258011.9	4084786	9.58E-03	1.46E-03	7.90E-04
777	257987.5	4084787	9.30E-03	1.42E-03	7.66E-04
778	257963.2	4084788	8.98E-03	1.37E-03	7.40E-04
779	257938.9	4084789	8.62E-03	1.31E-03	7.11E-04
780	257914.6	4084790	8.23E-03	1.25E-03	6.78E-04
781	257890.2	4084791	7.79E-03	1.19E-03	6.42E-04
782	257865.9	4084792	7.31E-03	1.11E-03	6.03E-04
783	257841.6	4084793	6.80E-03	1.04E-03	5.61E-04
784	257817.2	4084794	6.25E-03	9.52E-04	5.15E-04
785	257792.9	4084795	5.67E-03	8.64E-04	4.68E-04
786	257768.6	4084796	5.08E-03	7.74E-04	4.19E-04
787	257744.2	4084797	4.48E-03	6.82E-04	3.69E-04
788	257719.9	4084798	3.90E-03	5.94E-04	3.21E-04
789	257695.6	4084799	3.35E-03	5.10E-04	2.76E-04
790	257671.2	4084800	2.86E-03	4.36E-04	2.36E-04
791	257646.9	4084801	2.44E-03	3.72E-04	2.01E-04
792	257622.6	4084802	2.10E-03	3.20E-04	1.73E-04

793	257598.2	4084803	1.83E-03	2.79E-04	1.51E-04
794	257573.9	4084804	1.62E-03	2.46E-04	1.33E-04
795	257549.6	4084805	1.45E-03	2.21E-04	1.19E-04
796	258371.1	4084730	8.36E-03	1.27E-03	6.89E-04
797	258412.4	4084745	9.01E-03	1.37E-03	7.43E-04
798	258453.7	4084760	9.45E-03	1.44E-03	7.79E-04
799	258504.1	4084796	1.00E-02	1.53E-03	8.26E-04
800	258522.3	4084836	1.06E-02	1.62E-03	8.75E-04
801	258540.4	4084876	1.03E-02	1.56E-03	8.45E-04
802	258326.1	4084723	8.01E-03	1.22E-03	6.60E-04
803	258301.8	4084724	7.99E-03	1.22E-03	6.59E-04
804	258277.5	4084725	7.96E-03	1.21E-03	6.56E-04
805	258253.1	4084726	7.91E-03	1.20E-03	6.52E-04
806	258228.8	4084727	7.84E-03	1.19E-03	6.46E-04
807	258204.5	4084728	7.76E-03	1.18E-03	6.39E-04
808	258180.1	4084729	7.66E-03	1.17E-03	6.31E-04
809	258155.8	4084730	7.54E-03	1.15E-03	6.21E-04
810	258131.5	4084731	7.40E-03	1.13E-03	6.10E-04
811	258107.2	4084732	7.25E-03	1.10E-03	5.98E-04
812	258082.8	4084733	7.08E-03	1.08E-03	5.83E-04
813	258058.5	4084734	6.88E-03	1.05E-03	5.67E-04
814	258034.2	4084735	6.67E-03	1.02E-03	5.50E-04
815	258009.8	4084736	6.43E-03	9.80E-04	5.30E-04
816	257985.5	4084737	6.17E-03	9.40E-04	5.09E-04
817	257961.2	4084738	5.89E-03	8.97E-04	4.85E-04
818	257936.8	4084739	5.58E-03	8.50E-04	4.60E-04
819	257912.5	4084740	5.25E-03	8.00E-04	4.33E-04
820	257888.2	4084741	4.90E-03	7.47E-04	4.04E-04
821	257863.8	4084742	4.54E-03	6.91E-04	3.74E-04
822	257839.5	4084743	4.16E-03	6.34E-04	3.43E-04
823	257815.2	4084744	3.78E-03	5.75E-04	3.11E-04
824	257790.8	4084745	3.39E-03	5.17E-04	2.80E-04
825	257766.5	4084746	3.02E-03	4.61E-04	2.49E-04
826	257742.2	4084747	2.67E-03	4.07E-04	2.20E-04
827	257717.8	4084748	2.35E-03	3.58E-04	1.94E-04
828	257693.5	4084749	2.06E-03	3.14E-04	1.70E-04
829	257669.2	4084750	1.82E-03	2.77E-04	1.50E-04
830	257644.8	4084751	1.61E-03	2.45E-04	1.33E-04
831	257620.5	4084752	1.43E-03	2.19E-04	1.18E-04
832	257596.2	4084753	1.29E-03	1.97E-04	1.06E-04
833	257571.9	4084754	1.17E-03	1.79E-04	9.68E-05
834	257547.5	4084755	1.08E-03	1.64E-04	8.86E-05
835	258371	4084681	6.41E-03	9.77E-04	5.29E-04
836	258393.6	4084689	6.71E-03	1.02E-03	5.53E-04
837	258416.2	4084697	6.99E-03	1.06E-03	5.76E-04
838	258438.8	4084706	7.23E-03	1.10E-03	5.96E-04
839	258461.4	4084714	7.43E-03	1.13E-03	6.13E-04

840	258484	4084722	7.57E-03	1.15E-03	6.24E-04
841	258506.6	4084731	7.62E-03	1.16E-03	6.28E-04
842	258539.1	4084761	7.99E-03	1.22E-03	6.59E-04
843	258549	4084783	8.29E-03	1.26E-03	6.84E-04
844	258558.9	4084805	8.44E-03	1.29E-03	6.95E-04
845	258568.9	4084827	8.40E-03	1.28E-03	6.93E-04
846	258578.8	4084849	8.17E-03	1.24E-03	6.73E-04
847	258588.7	4084871	7.75E-03	1.18E-03	6.39E-04
848	258598.6	4084893	7.19E-03	1.10E-03	5.93E-04
849	258348.4	4084672	6.11E-03	9.30E-04	5.03E-04
850	258324.1	4084673	6.08E-03	9.26E-04	5.01E-04
851	258299.8	4084674	6.04E-03	9.20E-04	4.98E-04
852	258275.4	4084675	5.98E-03	9.11E-04	4.93E-04
853	258251.1	4084676	5.91E-03	9.00E-04	4.87E-04
854	258226.8	4084677	5.82E-03	8.87E-04	4.80E-04
855	258202.4	4084678	5.73E-03	8.72E-04	4.72E-04
856	258178.1	4084679	5.61E-03	8.55E-04	4.63E-04
857	258153.8	4084680	5.49E-03	8.36E-04	4.52E-04
858	258129.4	4084681	5.35E-03	8.15E-04	4.41E-04
859	258105.1	4084682	5.20E-03	7.92E-04	4.28E-04
860	258080.8	4084683	5.03E-03	7.66E-04	4.15E-04
861	258056.4	4084684	4.85E-03	7.39E-04	4.00E-04
862	258032.1	4084685	4.65E-03	7.09E-04	3.83E-04
863	258007.8	4084686	4.44E-03	6.77E-04	3.66E-04
864	257983.4	4084687	4.22E-03	6.43E-04	3.48E-04
865	257959.1	4084688	3.98E-03	6.07E-04	3.28E-04
866	257934.8	4084689	3.74E-03	5.69E-04	3.08E-04
867	257910.4	4084690	3.48E-03	5.30E-04	2.87E-04
868	257886.1	4084691	3.22E-03	4.90E-04	2.65E-04
869	257861.8	4084692	2.96E-03	4.50E-04	2.44E-04
870	257837.4	4084693	2.69E-03	4.10E-04	2.22E-04
871	257813.1	4084694	2.44E-03	3.72E-04	2.01E-04
872	257788.8	4084695	2.20E-03	3.35E-04	1.81E-04
873	257764.5	4084696	1.97E-03	3.00E-04	1.63E-04
874	257740.1	4084697	1.77E-03	2.69E-04	1.46E-04
875	257715.8	4084698	1.58E-03	2.41E-04	1.30E-04
876	257691.5	4084699	1.42E-03	2.16E-04	1.17E-04
877	257667.1	4084700	1.28E-03	1.95E-04	1.06E-04
878	257642.8	4084701	1.16E-03	1.77E-04	9.58E-05
879	257618.5	4084702	1.06E-03	1.62E-04	8.74E-05
880	257594.1	4084703	9.75E-04	1.48E-04	8.03E-05
881	257569.8	4084704	9.01E-04	1.37E-04	7.43E-05
882	257545.5	4084705	8.38E-04	1.28E-04	6.90E-05
883	258368	4084630	5.00E-03	7.61E-04	4.12E-04
884	258389.7	4084638	5.23E-03	7.97E-04	4.31E-04
885	258411.4	4084646	5.46E-03	8.31E-04	4.50E-04
886	258433.1	4084654	5.67E-03	8.63E-04	4.67E-04

887	258454.8	4084662	5.86E-03	8.93E-04	4.83E-04
888	258476.5	4084670	6.03E-03	9.18E-04	4.97E-04
889	258498.2	4084679	6.15E-03	9.37E-04	5.07E-04
890	258519.9	4084687	6.23E-03	9.50E-04	5.14E-04
891	258541.5	4084695	6.26E-03	9.53E-04	5.16E-04
892	258572.8	4084724	6.52E-03	9.93E-04	5.37E-04
893	258582.3	4084745	6.76E-03	1.03E-03	5.57E-04
894	258591.8	4084766	6.88E-03	1.05E-03	5.67E-04
895	258601.4	4084787	6.91E-03	1.05E-03	5.70E-04
896	258610.9	4084808	6.82E-03	1.04E-03	5.62E-04
897	258620.4	4084829	6.61E-03	1.01E-03	5.45E-04
898	258630	4084850	6.29E-03	9.58E-04	5.18E-04
899	258639.5	4084871	5.88E-03	8.96E-04	4.85E-04
900	258649	4084892	5.42E-03	8.26E-04	4.47E-04
901	258346.4	4084622	4.76E-03	7.24E-04	3.92E-04
902	258322	4084623	4.71E-03	7.17E-04	3.88E-04
903	258297.7	4084624	4.65E-03	7.09E-04	3.83E-04
904	258273.4	4084625	4.58E-03	6.98E-04	3.78E-04
905	258249	4084626	4.50E-03	6.86E-04	3.71E-04
906	258224.7	4084627	4.41E-03	6.72E-04	3.64E-04
907	258200.4	4084628	4.31E-03	6.57E-04	3.55E-04
908	258176	4084629	4.20E-03	6.40E-04	3.46E-04
909	258151.7	4084630	4.08E-03	6.21E-04	3.36E-04
910	258127.4	4084631	3.94E-03	6.01E-04	3.25E-04
911	258103	4084632	3.80E-03	5.79E-04	3.13E-04
912	258078.7	4084633	3.65E-03	5.55E-04	3.00E-04
913	258054.4	4084634	3.48E-03	5.31E-04	2.87E-04
914	258030	4084635	3.32E-03	5.05E-04	2.73E-04
915	258005.7	4084636	3.14E-03	4.79E-04	2.59E-04
916	257981.4	4084637	2.96E-03	4.51E-04	2.44E-04
917	257957.1	4084638	2.77E-03	4.22E-04	2.28E-04
918	257932.7	4084639	2.58E-03	3.93E-04	2.13E-04
919	257908.4	4084640	2.39E-03	3.64E-04	1.97E-04
920	257884.1	4084641	2.20E-03	3.36E-04	1.82E-04
921	257859.7	4084642	2.02E-03	3.08E-04	1.67E-04
922	257835.4	4084643	1.85E-03	2.81E-04	1.52E-04
923	257811.1	4084644	1.68E-03	2.56E-04	1.39E-04
924	257786.7	4084645	1.53E-03	2.33E-04	1.26E-04
925	257762.4	4084646	1.39E-03	2.11E-04	1.14E-04
926	257738.1	4084647	1.26E-03	1.92E-04	1.04E-04
927	257713.7	4084648	1.15E-03	1.75E-04	9.48E-05
928	257689.4	4084649	1.05E-03	1.60E-04	8.67E-05
929	257665.1	4084650	9.66E-04	1.47E-04	7.96E-05
930	257640.7	4084651	8.91E-04	1.36E-04	7.35E-05
931	257616.4	4084652	8.27E-04	1.26E-04	6.81E-05
932	257592.1	4084653	7.70E-04	1.17E-04	6.35E-05
933	257567.7	4084654	7.20E-04	1.10E-04	5.94E-05

934	257543.4	4084655	6.76E-04	1.03E-04	5.57E-05
935	258364.5	4084531	3.15E-03	4.81E-04	2.60E-04
936	258386.7	4084539	3.33E-03	5.07E-04	2.74E-04
937	258409	4084547	3.50E-03	5.33E-04	2.88E-04
938	258431.2	4084555	3.66E-03	5.58E-04	3.02E-04
939	258453.5	4084564	3.82E-03	5.82E-04	3.15E-04
940	258475.7	4084572	3.97E-03	6.05E-04	3.28E-04
941	258498	4084580	4.11E-03	6.26E-04	3.39E-04
942	258520.2	4084588	4.23E-03	6.45E-04	3.49E-04
943	258542.4	4084597	4.33E-03	6.60E-04	3.57E-04
944	258564.7	4084605	4.41E-03	6.72E-04	3.63E-04
945	258586.9	4084613	4.46E-03	6.79E-04	3.67E-04
946	258609.2	4084621	4.47E-03	6.81E-04	3.68E-04
947	258641.2	4084651	4.63E-03	7.06E-04	3.82E-04
948	258651	4084673	4.79E-03	7.29E-04	3.95E-04
949	258660.7	4084694	4.89E-03	7.44E-04	4.03E-04
950	258670.5	4084716	4.93E-03	7.50E-04	4.06E-04
951	258680.3	4084738	4.91E-03	7.48E-04	4.05E-04
952	258690.1	4084759	4.83E-03	7.36E-04	3.98E-04
953	258699.9	4084781	4.69E-03	7.14E-04	3.86E-04
954	258709.6	4084802	4.48E-03	6.83E-04	3.70E-04
955	258719.4	4084824	4.24E-03	6.45E-04	3.49E-04
956	258729.2	4084846	3.96E-03	6.03E-04	3.26E-04
957	258739	4084867	3.66E-03	5.58E-04	3.02E-04
958	258748.7	4084889	3.36E-03	5.12E-04	2.77E-04
959	258342.3	4084522	2.98E-03	4.54E-04	2.46E-04
960	258317.9	4084523	2.92E-03	4.45E-04	2.41E-04
961	258293.6	4084524	2.85E-03	4.35E-04	2.35E-04
962	258269.3	4084525	2.78E-03	4.24E-04	2.29E-04
963	258244.9	4084526	2.70E-03	4.11E-04	2.23E-04
964	258220.6	4084527	2.61E-03	3.98E-04	2.15E-04
965	258196.3	4084528	2.52E-03	3.84E-04	2.08E-04
966	258171.9	4084529	2.43E-03	3.70E-04	2.00E-04
967	258147.6	4084530	2.33E-03	3.54E-04	1.92E-04
968	258123.3	4084531	2.22E-03	3.38E-04	1.83E-04
969	258098.9	4084532	2.11E-03	3.22E-04	1.74E-04
970	258074.6	4084533	2.00E-03	3.05E-04	1.65E-04
971	258050.3	4084534	1.89E-03	2.89E-04	1.56E-04
972	258025.9	4084535	1.78E-03	2.72E-04	1.47E-04
973	258001.6	4084536	1.67E-03	2.55E-04	1.38E-04
974	257977.3	4084537	1.56E-03	2.38E-04	1.29E-04
975	257952.9	4084538	1.46E-03	2.22E-04	1.20E-04
976	257928.6	4084539	1.35E-03	2.06E-04	1.12E-04
977	257904.3	4084540	1.26E-03	1.91E-04	1.04E-04
978	257879.9	4084541	1.16E-03	1.77E-04	9.59E-05
979	257855.6	4084542	1.08E-03	1.64E-04	8.88E-05
980	257831.3	4084543	9.98E-04	1.52E-04	8.23E-05

981	257807	4084544	9.26E-04	1.41E-04	7.63E-05
982	257782.6	4084545	8.60E-04	1.31E-04	7.09E-05
983	257758.3	4084546	8.01E-04	1.22E-04	6.60E-05
984	257734	4084547	7.48E-04	1.14E-04	6.16E-05
985	257709.6	4084548	7.00E-04	1.07E-04	5.77E-05
986	257685.3	4084549	6.57E-04	1.00E-04	5.42E-05
987	257661	4084550	6.19E-04	9.43E-05	5.10E-05
988	257636.6	4084551	5.85E-04	8.91E-05	4.82E-05
989	257612.3	4084552	5.54E-04	8.43E-05	4.56E-05
990	257588	4084553	5.25E-04	8.01E-05	4.33E-05
991	257563.6	4084554	5.00E-04	7.61E-05	4.12E-05
992	257539.3	4084555	4.76E-04	7.25E-05	3.92E-05
993	258360.7	4084431	2.05E-03	3.12E-04	1.69E-04
994	258383.3	4084439	2.18E-03	3.32E-04	1.80E-04
995	258405.9	4084448	2.31E-03	3.51E-04	1.90E-04
996	258428.5	4084456	2.44E-03	3.71E-04	2.01E-04
997	258451.1	4084464	2.56E-03	3.90E-04	2.11E-04
998	258473.7	4084473	2.68E-03	4.09E-04	2.21E-04
999	258496.3	4084481	2.80E-03	4.27E-04	2.31E-04
1000	258518.9	4084489	2.92E-03	4.44E-04	2.40E-04
1001	258541.5	4084498	3.02E-03	4.61E-04	2.49E-04
1002	258564.1	4084506	3.12E-03	4.75E-04	2.57E-04
1003	258586.6	4084514	3.20E-03	4.88E-04	2.64E-04
1004	258609.2	4084523	3.27E-03	4.99E-04	2.70E-04
1005	258631.8	4084531	3.32E-03	5.06E-04	2.74E-04
1006	258654.4	4084540	3.36E-03	5.11E-04	2.77E-04
1007	258677	4084548	3.37E-03	5.13E-04	2.78E-04
1008	258709.5	4084578	3.47E-03	5.29E-04	2.86E-04
1009	258719.5	4084600	3.58E-03	5.45E-04	2.95E-04
1010	258729.4	4084622	3.66E-03	5.58E-04	3.02E-04
1011	258739.3	4084644	3.71E-03	5.65E-04	3.06E-04
1012	258749.2	4084666	3.72E-03	5.67E-04	3.07E-04
1013	258759.2	4084688	3.69E-03	5.63E-04	3.05E-04
1014	258769.1	4084710	3.63E-03	5.53E-04	2.99E-04
1015	258779	4084732	3.53E-03	5.38E-04	2.91E-04
1016	258789	4084754	3.40E-03	5.17E-04	2.80E-04
1017	258798.9	4084776	3.23E-03	4.93E-04	2.67E-04
1018	258808.8	4084798	3.05E-03	4.65E-04	2.52E-04
1019	258818.8	4084820	2.86E-03	4.35E-04	2.36E-04
1020	258828.7	4084842	2.66E-03	4.05E-04	2.19E-04
1021	258838.6	4084864	2.46E-03	3.75E-04	2.03E-04
1022	258848.5	4084886	2.27E-03	3.46E-04	1.87E-04
1023	258338.1	4084422	1.92E-03	2.93E-04	1.58E-04
1024	258313.8	4084423	1.86E-03	2.84E-04	1.54E-04
1025	258289.5	4084424	1.80E-03	2.75E-04	1.49E-04
1026	258265.2	4084425	1.74E-03	2.65E-04	1.43E-04
1027	258240.8	4084426	1.67E-03	2.55E-04	1.38E-04

1028	258216.5	4084427	1.61E-03	2.45E-04	1.32E-04
1029	258192.2	4084428	1.53E-03	2.34E-04	1.27E-04
1030	258167.8	4084429	1.46E-03	2.23E-04	1.21E-04
1031	258143.5	4084430	1.39E-03	2.12E-04	1.15E-04
1032	258119.2	4084431	1.32E-03	2.01E-04	1.09E-04
1033	258094.8	4084432	1.25E-03	1.90E-04	1.03E-04
1034	258070.5	4084433	1.18E-03	1.79E-04	9.70E-05
1035	258046.2	4084434	1.11E-03	1.69E-04	9.14E-05
1036	258021.8	4084435	1.04E-03	1.59E-04	8.59E-05
1037	257997.5	4084436	9.79E-04	1.49E-04	8.07E-05
1038	257973.2	4084437	9.19E-04	1.40E-04	7.57E-05
1039	257948.8	4084438	8.62E-04	1.31E-04	7.10E-05
1040	257924.5	4084439	8.08E-04	1.23E-04	6.66E-05
1041	257900.2	4084440	7.58E-04	1.15E-04	6.25E-05
1042	257875.8	4084441	7.11E-04	1.08E-04	5.86E-05
1043	257851.5	4084442	6.68E-04	1.02E-04	5.51E-05
1044	257827.2	4084443	6.28E-04	9.57E-05	5.18E-05
1045	257802.8	4084444	5.91E-04	9.01E-05	4.87E-05
1046	257778.5	4084445	5.58E-04	8.50E-05	4.60E-05
1047	257754.2	4084446	5.28E-04	8.04E-05	4.35E-05
1048	257729.9	4084447	5.01E-04	7.63E-05	4.13E-05
1049	257705.5	4084448	4.76E-04	7.25E-05	3.92E-05
1050	257681.2	4084449	4.54E-04	6.92E-05	3.74E-05
1051	257656.9	4084450	4.34E-04	6.61E-05	3.58E-05
1052	257632.5	4084451	4.16E-04	6.34E-05	3.43E-05
1053	257608.2	4084452	4.00E-04	6.09E-05	3.29E-05
1054	257583.9	4084453	3.84E-04	5.86E-05	3.17E-05
1055	257559.5	4084454	3.70E-04	5.64E-05	3.05E-05
1056	257535.2	4084455	3.57E-04	5.44E-05	2.94E-05
1057	258356.9	4084331	1.36E-03	2.07E-04	1.12E-04
1058	258379.7	4084339	1.45E-03	2.21E-04	1.20E-04
1059	258402.5	4084348	1.55E-03	2.36E-04	1.28E-04
1060	258425.4	4084356	1.65E-03	2.51E-04	1.36E-04
1061	258448.2	4084365	1.74E-03	2.66E-04	1.44E-04
1062	258471	4084373	1.84E-03	2.81E-04	1.52E-04
1063	258493.8	4084382	1.94E-03	2.95E-04	1.60E-04
1064	258516.7	4084390	2.03E-03	3.10E-04	1.68E-04
1065	258539.5	4084399	2.13E-03	3.24E-04	1.75E-04
1066	258562.3	4084407	2.22E-03	3.38E-04	1.83E-04
1067	258585.2	4084416	2.30E-03	3.50E-04	1.90E-04
1068	258608	4084424	2.38E-03	3.62E-04	1.96E-04
1069	258630.8	4084432	2.45E-03	3.73E-04	2.02E-04
1070	258653.6	4084441	2.51E-03	3.82E-04	2.07E-04
1071	258676.5	4084449	2.56E-03	3.90E-04	2.11E-04
1072	258699.3	4084458	2.60E-03	3.96E-04	2.14E-04
1073	258722.1	4084466	2.62E-03	3.99E-04	2.16E-04
1074	258745	4084475	2.63E-03	4.01E-04	2.17E-04

1075	258777.8	4084505	2.72E-03	4.14E-04	2.24E-04
1076	258787.9	4084528	2.80E-03	4.26E-04	2.31E-04
1077	258797.9	4084550	2.86E-03	4.36E-04	2.36E-04
1078	258807.9	4084572	2.90E-03	4.42E-04	2.39E-04
1079	258818	4084594	2.92E-03	4.45E-04	2.41E-04
1080	258828	4084616	2.92E-03	4.45E-04	2.41E-04
1081	258838	4084638	2.90E-03	4.41E-04	2.39E-04
1082	258848.1	4084661	2.85E-03	4.34E-04	2.35E-04
1083	258858.1	4084683	2.77E-03	4.22E-04	2.29E-04
1084	258868.1	4084705	2.68E-03	4.08E-04	2.21E-04
1085	258878.2	4084727	2.57E-03	3.92E-04	2.12E-04
1086	258888.2	4084749	2.45E-03	3.73E-04	2.02E-04
1087	258898.2	4084771	2.31E-03	3.52E-04	1.91E-04
1088	258908.3	4084794	2.17E-03	3.31E-04	1.79E-04
1089	258918.3	4084816	2.04E-03	3.10E-04	1.68E-04
1090	258928.3	4084838	1.90E-03	2.89E-04	1.57E-04
1091	258938.4	4084860	1.77E-03	2.69E-04	1.46E-04
1092	258948.4	4084882	1.64E-03	2.50E-04	1.35E-04
1093	258334	4084323	1.27E-03	1.93E-04	1.04E-04
1094	258309.7	4084324	1.22E-03	1.86E-04	1.01E-04
1095	258285.4	4084325	1.17E-03	1.79E-04	9.67E-05
1096	258261	4084326	1.13E-03	1.71E-04	9.27E-05
1097	258236.7	4084327	1.08E-03	1.64E-04	8.87E-05
1098	258212.4	4084328	1.03E-03	1.56E-04	8.46E-05
1099	258188	4084329	9.77E-04	1.49E-04	8.06E-05
1100	258163.7	4084330	9.29E-04	1.41E-04	7.66E-05
1101	258139.4	4084331	8.81E-04	1.34E-04	7.26E-05
1102	258115.1	4084332	8.34E-04	1.27E-04	6.87E-05
1103	258090.7	4084333	7.89E-04	1.20E-04	6.50E-05
1104	258066.4	4084334	7.46E-04	1.14E-04	6.15E-05
1105	258042.1	4084335	7.05E-04	1.07E-04	5.81E-05
1106	258017.7	4084336	6.66E-04	1.02E-04	5.49E-05
1107	257993.4	4084337	6.30E-04	9.60E-05	5.19E-05
1108	257969.1	4084338	5.96E-04	9.09E-05	4.92E-05
1109	257944.7	4084339	5.65E-04	8.61E-05	4.66E-05
1110	257920.4	4084340	5.36E-04	8.16E-05	4.41E-05
1111	257896.1	4084341	5.08E-04	7.74E-05	4.19E-05
1112	257871.7	4084342	4.83E-04	7.36E-05	3.98E-05
1113	257847.4	4084343	4.59E-04	7.00E-05	3.79E-05
1114	257823.1	4084344	4.37E-04	6.66E-05	3.60E-05
1115	257798.7	4084345	4.17E-04	6.35E-05	3.44E-05
1116	257774.4	4084346	3.98E-04	6.06E-05	3.28E-05
1117	257750.1	4084347	3.81E-04	5.80E-05	3.14E-05
1118	257725.7	4084348	3.65E-04	5.56E-05	3.01E-05
1119	257701.4	4084349	3.50E-04	5.33E-05	2.89E-05
1120	257677.1	4084350	3.37E-04	5.13E-05	2.78E-05
1121	257652.7	4084351	3.25E-04	4.94E-05	2.68E-05

1122	257628.4	4084352	3.13E-04	4.77E-05	2.58E-05
1123	257604.1	4084353	3.03E-04	4.62E-05	2.50E-05
1124	257579.8	4084354	2.94E-04	4.47E-05	2.42E-05
1125	257555.4	4084355	2.85E-04	4.34E-05	2.35E-05
1126	257531.1	4084356	2.77E-04	4.21E-05	2.28E-05
1127	258351.9	4084231	9.21E-04	1.40E-04	7.59E-05
1128	258373.9	4084239	9.85E-04	1.50E-04	8.12E-05
1129	258395.9	4084247	1.05E-03	1.60E-04	8.66E-05
1130	258417.9	4084255	1.12E-03	1.71E-04	9.23E-05
1131	258439.9	4084263	1.19E-03	1.81E-04	9.81E-05
1132	258461.9	4084272	1.26E-03	1.92E-04	1.04E-04
1133	258483.9	4084280	1.33E-03	2.03E-04	1.10E-04
1134	258505.9	4084288	1.41E-03	2.14E-04	1.16E-04
1135	258527.9	4084296	1.48E-03	2.25E-04	1.22E-04
1136	258549.9	4084304	1.55E-03	2.36E-04	1.28E-04
1137	258571.9	4084312	1.62E-03	2.47E-04	1.34E-04
1138	258594	4084320	1.69E-03	2.58E-04	1.39E-04
1139	258616	4084329	1.76E-03	2.68E-04	1.45E-04
1140	258638	4084337	1.82E-03	2.77E-04	1.50E-04
1141	258660	4084345	1.88E-03	2.87E-04	1.55E-04
1142	258682	4084353	1.94E-03	2.95E-04	1.60E-04
1143	258704	4084361	1.99E-03	3.03E-04	1.64E-04
1144	258726	4084369	2.03E-03	3.09E-04	1.67E-04
1145	258748	4084377	2.07E-03	3.15E-04	1.70E-04
1146	258770	4084386	2.10E-03	3.19E-04	1.73E-04
1147	258792	4084394	2.12E-03	3.22E-04	1.74E-04
1148	258814	4084402	2.12E-03	3.23E-04	1.75E-04
1149	258845.6	4084431	2.19E-03	3.34E-04	1.81E-04
1150	258855.3	4084453	2.25E-03	3.43E-04	1.85E-04
1151	258865	4084474	2.30E-03	3.50E-04	1.90E-04
1152	258874.6	4084496	2.34E-03	3.56E-04	1.93E-04
1153	258884.3	4084517	2.36E-03	3.60E-04	1.95E-04
1154	258894	4084538	2.37E-03	3.61E-04	1.95E-04
1155	258903.7	4084560	2.37E-03	3.61E-04	1.95E-04
1156	258913.3	4084581	2.35E-03	3.58E-04	1.94E-04
1157	258923	4084602	2.32E-03	3.53E-04	1.91E-04
1158	258932.7	4084624	2.27E-03	3.46E-04	1.87E-04
1159	258942.3	4084645	2.22E-03	3.38E-04	1.83E-04
1160	258952	4084667	2.15E-03	3.27E-04	1.77E-04
1161	258961.7	4084688	2.07E-03	3.15E-04	1.70E-04
1162	258971.4	4084709	1.98E-03	3.02E-04	1.63E-04
1163	258981	4084731	1.89E-03	2.88E-04	1.56E-04
1164	258990.7	4084752	1.79E-03	2.73E-04	1.48E-04
1165	259000.4	4084773	1.70E-03	2.58E-04	1.40E-04
1166	259010	4084795	1.60E-03	2.44E-04	1.32E-04
1167	259019.7	4084816	1.51E-03	2.30E-04	1.24E-04
1168	259029.4	4084838	1.42E-03	2.16E-04	1.17E-04

1169	259039	4084859	1.33E-03	2.03E-04	1.10E-04
1170	259048.7	4084880	1.25E-03	1.90E-04	1.03E-04
1171	258329.9	4084223	8.60E-04	1.31E-04	7.09E-05
1172	258305.6	4084224	8.25E-04	1.26E-04	6.80E-05
1173	258281.3	4084225	7.91E-04	1.20E-04	6.52E-05
1174	258256.9	4084226	7.57E-04	1.15E-04	6.24E-05
1175	258232.6	4084227	7.23E-04	1.10E-04	5.96E-05
1176	258208.3	4084228	6.90E-04	1.05E-04	5.68E-05
1177	258183.9	4084229	6.57E-04	1.00E-04	5.41E-05
1178	258159.6	4084230	6.25E-04	9.52E-05	5.15E-05
1179	258135.3	4084231	5.94E-04	9.05E-05	4.90E-05
1180	258110.9	4084232	5.65E-04	8.60E-05	4.65E-05
1181	258086.6	4084233	5.37E-04	8.18E-05	4.42E-05
1182	258062.3	4084234	5.10E-04	7.77E-05	4.21E-05
1183	258037.9	4084235	4.85E-04	7.39E-05	4.00E-05
1184	258013.6	4084236	4.62E-04	7.04E-05	3.81E-05
1185	257989.3	4084237	4.40E-04	6.70E-05	3.63E-05
1186	257965	4084238	4.20E-04	6.40E-05	3.46E-05
1187	257940.6	4084239	4.01E-04	6.11E-05	3.30E-05
1188	257916.3	4084240	3.83E-04	5.84E-05	3.16E-05
1189	257892	4084241	3.67E-04	5.59E-05	3.02E-05
1190	257867.6	4084242	3.52E-04	5.36E-05	2.90E-05
1191	257843.3	4084243	3.38E-04	5.15E-05	2.78E-05
1192	257819	4084244	3.25E-04	4.95E-05	2.68E-05
1193	257794.6	4084245	3.13E-04	4.77E-05	2.58E-05
1194	257770.3	4084246	3.02E-04	4.60E-05	2.49E-05
1195	257746	4084247	2.92E-04	4.44E-05	2.40E-05
1196	257721.6	4084248	2.82E-04	4.29E-05	2.32E-05
1197	257697.3	4084249	2.73E-04	4.15E-05	2.25E-05
1198	257673	4084250	2.64E-04	4.03E-05	2.18E-05
1199	257648.6	4084251	2.56E-04	3.90E-05	2.11E-05
1200	257624.3	4084252	2.49E-04	3.79E-05	2.05E-05
1201	257600	4084253	2.41E-04	3.68E-05	1.99E-05
1202	257575.6	4084254	2.34E-04	3.57E-05	1.93E-05
1203	257551.3	4084255	2.28E-04	3.47E-05	1.88E-05
1204	257527	4084256	2.22E-04	3.38E-05	1.83E-05
1205	258344.2	4084031	4.70E-04	7.17E-05	3.88E-05
1206	258366.6	4084039	5.01E-04	7.63E-05	4.13E-05
1207	258389	4084048	5.34E-04	8.13E-05	4.40E-05
1208	258411.5	4084056	5.69E-04	8.66E-05	4.69E-05
1209	258433.9	4084064	6.05E-04	9.22E-05	4.99E-05
1210	258456.3	4084073	6.44E-04	9.82E-05	5.31E-05
1211	258478.8	4084081	6.85E-04	1.04E-04	5.65E-05
1212	258501.2	4084089	7.27E-04	1.11E-04	5.99E-05
1213	258523.6	4084098	7.71E-04	1.17E-04	6.35E-05
1214	258546.1	4084106	8.16E-04	1.24E-04	6.72E-05
1215	258568.5	4084114	8.62E-04	1.31E-04	7.10E-05

1216	258590.9	4084123	9.08E-04	1.38E-04	7.49E-05
1217	258613.4	4084131	9.55E-04	1.45E-04	7.87E-05
1218	258635.8	4084139	1.00E-03	1.53E-04	8.26E-05
1219	258658.2	4084147	1.05E-03	1.60E-04	8.64E-05
1220	258680.7	4084156	1.09E-03	1.67E-04	9.02E-05
1221	258703.1	4084164	1.14E-03	1.74E-04	9.40E-05
1222	258725.5	4084172	1.18E-03	1.80E-04	9.76E-05
1223	258748	4084181	1.23E-03	1.87E-04	1.01E-04
1224	258770.4	4084189	1.27E-03	1.93E-04	1.04E-04
1225	258792.9	4084197	1.31E-03	1.99E-04	1.08E-04
1226	258815.3	4084206	1.34E-03	2.04E-04	1.11E-04
1227	258837.7	4084214	1.37E-03	2.09E-04	1.13E-04
1228	258860.2	4084222	1.40E-03	2.14E-04	1.16E-04
1229	258882.6	4084230	1.43E-03	2.17E-04	1.18E-04
1230	258905	4084239	1.45E-03	2.21E-04	1.19E-04
1231	258927.5	4084247	1.46E-03	2.23E-04	1.21E-04
1232	258949.9	4084255	1.47E-03	2.24E-04	1.21E-04
1233	258982.2	4084286	1.52E-03	2.32E-04	1.26E-04
1234	258992.1	4084307	1.56E-03	2.38E-04	1.29E-04
1235	259001.9	4084329	1.60E-03	2.43E-04	1.32E-04
1236	259011.8	4084351	1.63E-03	2.48E-04	1.34E-04
1237	259021.6	4084373	1.65E-03	2.51E-04	1.36E-04
1238	259031.5	4084394	1.66E-03	2.53E-04	1.37E-04
1239	259041.4	4084416	1.67E-03	2.54E-04	1.38E-04
1240	259051.2	4084438	1.67E-03	2.54E-04	1.38E-04
1241	259061.1	4084460	1.66E-03	2.53E-04	1.37E-04
1242	259070.9	4084482	1.65E-03	2.51E-04	1.36E-04
1243	259080.8	4084503	1.63E-03	2.48E-04	1.34E-04
1244	259090.7	4084525	1.60E-03	2.43E-04	1.32E-04
1245	259100.5	4084547	1.56E-03	2.38E-04	1.29E-04
1246	259110.4	4084569	1.52E-03	2.32E-04	1.26E-04
1247	259120.2	4084591	1.48E-03	2.26E-04	1.22E-04
1248	259130.1	4084612	1.43E-03	2.18E-04	1.18E-04
1249	259140	4084634	1.38E-03	2.11E-04	1.14E-04
1250	259149.8	4084656	1.33E-03	2.03E-04	1.10E-04
1251	259159.7	4084678	1.28E-03	1.95E-04	1.05E-04
1252	259169.6	4084700	1.22E-03	1.87E-04	1.01E-04
1253	259179.4	4084721	1.17E-03	1.78E-04	9.62E-05
1254	259189.3	4084743	1.11E-03	1.69E-04	9.16E-05
1255	259199.1	4084765	1.06E-03	1.61E-04	8.71E-05
1256	259209	4084787	1.00E-03	1.53E-04	8.25E-05
1257	259218.9	4084809	9.51E-04	1.45E-04	7.84E-05
1258	259228.7	4084830	9.03E-04	1.38E-04	7.44E-05
1259	259238.6	4084852	8.59E-04	1.31E-04	7.08E-05
1260	259248.4	4084874	8.16E-04	1.24E-04	6.73E-05
1261	258321.7	4084023	4.42E-04	6.73E-05	3.64E-05
1262	258297.4	4084024	4.25E-04	6.48E-05	3.50E-05

1263	258273.1	4084025	4.09E-04	6.23E-05	3.37E-05
1264	258248.7	4084026	3.94E-04	6.00E-05	3.24E-05
1265	258224.4	4084027	3.79E-04	5.77E-05	3.12E-05
1266	258200.1	4084028	3.64E-04	5.55E-05	3.00E-05
1267	258175.7	4084029	3.50E-04	5.33E-05	2.89E-05
1268	258151.4	4084030	3.37E-04	5.13E-05	2.77E-05
1269	258127.1	4084031	3.23E-04	4.93E-05	2.67E-05
1270	258102.7	4084032	3.11E-04	4.74E-05	2.56E-05
1271	258078.4	4084033	2.99E-04	4.55E-05	2.46E-05
1272	258054.1	4084034	2.87E-04	4.37E-05	2.37E-05
1273	258029.7	4084035	2.76E-04	4.20E-05	2.27E-05
1274	258005.4	4084036	2.65E-04	4.04E-05	2.19E-05
1275	257981.1	4084037	2.56E-04	3.89E-05	2.11E-05
1276	257956.7	4084038	2.46E-04	3.75E-05	2.03E-05
1277	257932.4	4084039	2.38E-04	3.62E-05	1.96E-05
1278	257908.1	4084040	2.30E-04	3.50E-05	1.89E-05
1279	257883.7	4084041	2.23E-04	3.39E-05	1.83E-05
1280	257859.4	4084042	2.16E-04	3.29E-05	1.78E-05
1281	257835.1	4084043	2.10E-04	3.20E-05	1.73E-05
1282	257810.7	4084044	2.04E-04	3.11E-05	1.68E-05
1283	257786.4	4084045	1.99E-04	3.03E-05	1.64E-05
1284	257762.1	4084046	1.95E-04	2.96E-05	1.60E-05
1285	257737.8	4084047	1.90E-04	2.90E-05	1.57E-05
1286	257713.4	4084048	1.86E-04	2.84E-05	1.54E-05
1287	257689.1	4084049	1.83E-04	2.79E-05	1.51E-05
1288	257664.8	4084050	1.79E-04	2.73E-05	1.48E-05
1289	257640.4	4084051	1.76E-04	2.68E-05	1.45E-05
1290	257616.1	4084052	1.72E-04	2.63E-05	1.42E-05
1291	257591.8	4084053	1.69E-04	2.58E-05	1.39E-05
1292	257567.4	4084054	1.66E-04	2.52E-05	1.36E-05
1293	257543.1	4084055	1.62E-04	2.47E-05	1.34E-05
1294	257518.8	4084056	1.58E-04	2.41E-05	1.31E-05
1295	258336.2	4083831	2.80E-04	4.26E-05	2.30E-05
1296	258358.9	4083840	2.94E-04	4.48E-05	2.42E-05
1297	258381.7	4083848	3.10E-04	4.72E-05	2.55E-05
1298	258404.4	4083857	3.27E-04	4.98E-05	2.69E-05
1299	258427.1	4083865	3.45E-04	5.26E-05	2.85E-05
1300	258449.8	4083873	3.65E-04	5.56E-05	3.01E-05
1301	258472.5	4083882	3.86E-04	5.89E-05	3.19E-05
1302	258495.3	4083890	4.09E-04	6.23E-05	3.37E-05
1303	258518	4083899	4.33E-04	6.59E-05	3.57E-05
1304	258540.7	4083907	4.58E-04	6.98E-05	3.77E-05
1305	258563.4	4083916	4.84E-04	7.38E-05	3.99E-05
1306	258586.1	4083924	5.12E-04	7.80E-05	4.22E-05
1307	258608.9	4083932	5.40E-04	8.23E-05	4.45E-05
1308	258631.6	4083941	5.70E-04	8.68E-05	4.70E-05
1309	258654.3	4083949	6.00E-04	9.14E-05	4.94E-05

1310	258677	4083958	6.31E-04	9.61E-05	5.20E-05
1311	258699.7	4083966	6.62E-04	1.01E-04	5.46E-05
1312	258722.5	4083974	6.94E-04	1.06E-04	5.72E-05
1313	258745.2	4083983	7.26E-04	1.11E-04	5.99E-05
1314	258767.9	4083991	7.58E-04	1.16E-04	6.25E-05
1315	258790.6	4084000	7.90E-04	1.20E-04	6.51E-05
1316	258813.3	4084008	8.22E-04	1.25E-04	6.77E-05
1317	258836.1	4084016	8.53E-04	1.30E-04	7.03E-05
1318	258858.8	4084025	8.83E-04	1.34E-04	7.28E-05
1319	258881.5	4084033	9.12E-04	1.39E-04	7.52E-05
1320	258904.2	4084042	9.40E-04	1.43E-04	7.75E-05
1321	258926.9	4084050	9.66E-04	1.47E-04	7.96E-05
1322	258949.7	4084059	9.88E-04	1.51E-04	8.15E-05
1323	258972.4	4084067	1.01E-03	1.54E-04	8.33E-05
1324	258995.1	4084075	1.03E-03	1.57E-04	8.49E-05
1325	259017.8	4084084	1.05E-03	1.60E-04	8.64E-05
1326	259040.5	4084092	1.06E-03	1.62E-04	8.77E-05
1327	259063.3	4084101	1.08E-03	1.64E-04	8.87E-05
1328	259086	4084109	1.09E-03	1.65E-04	8.95E-05
1329	259118.7	4084139	1.12E-03	1.71E-04	9.26E-05
1330	259128.7	4084162	1.15E-03	1.76E-04	9.51E-05
1331	259138.7	4084184	1.18E-03	1.80E-04	9.72E-05
1332	259148.6	4084206	1.20E-03	1.83E-04	9.91E-05
1333	259158.6	4084228	1.22E-03	1.86E-04	1.01E-04
1334	259168.6	4084250	1.24E-03	1.88E-04	1.02E-04
1335	259178.6	4084272	1.25E-03	1.90E-04	1.03E-04
1336	259188.6	4084294	1.25E-03	1.91E-04	1.03E-04
1337	259198.6	4084316	1.26E-03	1.91E-04	1.03E-04
1338	259208.6	4084338	1.25E-03	1.91E-04	1.03E-04
1339	259218.5	4084360	1.25E-03	1.90E-04	1.03E-04
1340	259228.5	4084382	1.23E-03	1.88E-04	1.02E-04
1341	259238.5	4084404	1.22E-03	1.86E-04	1.00E-04
1342	259248.5	4084426	1.20E-03	1.83E-04	9.92E-05
1343	259258.5	4084449	1.18E-03	1.80E-04	9.74E-05
1344	259268.5	4084471	1.16E-03	1.76E-04	9.54E-05
1345	259278.5	4084493	1.13E-03	1.72E-04	9.32E-05
1346	259288.5	4084515	1.10E-03	1.68E-04	9.09E-05
1347	259298.4	4084537	1.07E-03	1.63E-04	8.84E-05
1348	259308.4	4084559	1.04E-03	1.59E-04	8.59E-05
1349	259318.4	4084581	1.01E-03	1.54E-04	8.33E-05
1350	259328.4	4084603	9.78E-04	1.49E-04	8.06E-05
1351	259338.4	4084625	9.43E-04	1.44E-04	7.78E-05
1352	259348.4	4084647	9.08E-04	1.38E-04	7.49E-05
1353	259358.4	4084669	8.72E-04	1.33E-04	7.19E-05
1354	259368.3	4084691	8.35E-04	1.27E-04	6.88E-05
1355	259378.3	4084713	7.99E-04	1.22E-04	6.59E-05
1356	259388.3	4084735	7.64E-04	1.16E-04	6.30E-05

1357	259398.3	4084758	7.31E-04	1.11E-04	6.03E-05
1358	259408.3	4084780	7.00E-04	1.07E-04	5.77E-05
1359	259418.3	4084802	6.72E-04	1.02E-04	5.54E-05
1360	259428.3	4084824	6.45E-04	9.82E-05	5.32E-05
1361	259438.2	4084846	6.19E-04	9.43E-05	5.10E-05
1362	259448.2	4084868	5.94E-04	9.05E-05	4.90E-05
1363	258313.5	4083823	2.66E-04	4.06E-05	2.20E-05
1364	258289.2	4083824	2.59E-04	3.94E-05	2.13E-05
1365	258264.8	4083825	2.51E-04	3.82E-05	2.07E-05
1366	258240.5	4083826	2.44E-04	3.71E-05	2.01E-05
1367	258216.2	4083827	2.37E-04	3.61E-05	1.95E-05
1368	258191.8	4083828	2.30E-04	3.50E-05	1.89E-05
1369	258167.5	4083829	2.23E-04	3.39E-05	1.84E-05
1370	258143.2	4083830	2.16E-04	3.29E-05	1.78E-05
1371	258118.8	4083831	2.09E-04	3.19E-05	1.72E-05
1372	258094.5	4083832	2.03E-04	3.09E-05	1.67E-05
1373	258070.2	4083833	1.96E-04	2.99E-05	1.62E-05
1374	258045.9	4083834	1.90E-04	2.90E-05	1.57E-05
1375	258021.5	4083835	1.84E-04	2.81E-05	1.52E-05
1376	257997.2	4083836	1.79E-04	2.72E-05	1.47E-05
1377	257972.9	4083837	1.73E-04	2.64E-05	1.43E-05
1378	257948.5	4083838	1.68E-04	2.56E-05	1.39E-05
1379	257924.2	4083839	1.63E-04	2.49E-05	1.35E-05
1380	257899.9	4083840	1.59E-04	2.42E-05	1.31E-05
1381	257875.5	4083841	1.55E-04	2.36E-05	1.28E-05
1382	257851.2	4083842	1.51E-04	2.30E-05	1.25E-05
1383	257826.9	4083843	1.48E-04	2.25E-05	1.22E-05
1384	257802.5	4083844	1.45E-04	2.21E-05	1.19E-05
1385	257778.2	4083845	1.42E-04	2.16E-05	1.17E-05
1386	257753.9	4083846	1.39E-04	2.12E-05	1.15E-05
1387	257729.5	4083847	1.37E-04	2.09E-05	1.13E-05
1388	257705.2	4083848	1.35E-04	2.05E-05	1.11E-05
1389	257680.9	4083849	1.33E-04	2.02E-05	1.10E-05
1390	257656.5	4083850	1.31E-04	2.00E-05	1.08E-05
1391	257632.2	4083851	1.29E-04	1.97E-05	1.07E-05
1392	257607.9	4083852	1.28E-04	1.94E-05	1.05E-05
1393	257583.5	4083853	1.26E-04	1.92E-05	1.04E-05
1394	257559.2	4083854	1.24E-04	1.89E-05	1.02E-05
1395	257534.9	4083855	1.23E-04	1.87E-05	1.01E-05
1396	257510.6	4083856	1.21E-04	1.84E-05	9.97E-06
1397	258327.7	4083631	1.89E-04	2.89E-05	1.56E-05
1398	258350	4083640	1.97E-04	3.00E-05	1.62E-05
1399	258372.4	4083648	2.05E-04	3.12E-05	1.69E-05
1400	258394.8	4083656	2.13E-04	3.25E-05	1.76E-05
1401	258417.2	4083665	2.22E-04	3.39E-05	1.83E-05
1402	258439.5	4083673	2.32E-04	3.54E-05	1.91E-05
1403	258461.9	4083681	2.43E-04	3.70E-05	2.00E-05

1404	258484.3	4083689	2.54E-04	3.87E-05	2.09E-05
1405	258506.7	4083698	2.66E-04	4.05E-05	2.19E-05
1406	258529	4083706	2.79E-04	4.25E-05	2.30E-05
1407	258551.4	4083714	2.93E-04	4.47E-05	2.42E-05
1408	258573.8	4083723	3.08E-04	4.69E-05	2.54E-05
1409	258596.2	4083731	3.24E-04	4.93E-05	2.67E-05
1410	258618.5	4083739	3.40E-04	5.18E-05	2.80E-05
1411	258640.9	4083747	3.57E-04	5.45E-05	2.95E-05
1412	258663.3	4083756	3.75E-04	5.72E-05	3.09E-05
1413	258685.7	4083764	3.94E-04	6.00E-05	3.25E-05
1414	258708	4083772	4.14E-04	6.30E-05	3.41E-05
1415	258730.4	4083781	4.34E-04	6.61E-05	3.57E-05
1416	258752.8	4083789	4.54E-04	6.92E-05	3.75E-05
1417	258775.2	4083797	4.75E-04	7.24E-05	3.92E-05
1418	258797.6	4083805	4.97E-04	7.57E-05	4.10E-05
1419	258819.9	4083814	5.19E-04	7.91E-05	4.28E-05
1420	258842.3	4083822	5.41E-04	8.25E-05	4.46E-05
1421	258864.7	4083830	5.64E-04	8.59E-05	4.65E-05
1422	258887.1	4083839	5.86E-04	8.93E-05	4.83E-05
1423	258909.4	4083847	6.09E-04	9.27E-05	5.02E-05
1424	258931.8	4083855	6.31E-04	9.61E-05	5.20E-05
1425	258954.2	4083863	6.53E-04	9.95E-05	5.38E-05
1426	258976.6	4083872	6.75E-04	1.03E-04	5.56E-05
1427	258998.9	4083880	6.96E-04	1.06E-04	5.74E-05
1428	259021.3	4083888	7.16E-04	1.09E-04	5.91E-05
1429	259043.7	4083897	7.36E-04	1.12E-04	6.07E-05
1430	259066.1	4083905	7.54E-04	1.15E-04	6.22E-05
1431	259088.4	4083913	7.72E-04	1.18E-04	6.36E-05
1432	259110.8	4083921	7.87E-04	1.20E-04	6.49E-05
1433	259133.2	4083930	8.02E-04	1.22E-04	6.61E-05
1434	259155.6	4083938	8.15E-04	1.24E-04	6.72E-05
1435	259177.9	4083946	8.25E-04	1.26E-04	6.80E-05
1436	259200.3	4083955	8.35E-04	1.27E-04	6.88E-05
1437	259222.7	4083963	8.43E-04	1.28E-04	6.95E-05
1438	259254.9	4083993	8.71E-04	1.33E-04	7.18E-05
1439	259264.7	4084015	8.93E-04	1.36E-04	7.36E-05
1440	259274.6	4084036	9.13E-04	1.39E-04	7.52E-05
1441	259284.4	4084058	9.31E-04	1.42E-04	7.67E-05
1442	259294.2	4084080	9.47E-04	1.44E-04	7.81E-05
1443	259304.1	4084102	9.61E-04	1.46E-04	7.92E-05
1444	259313.9	4084123	9.72E-04	1.48E-04	8.02E-05
1445	259323.7	4084145	9.81E-04	1.49E-04	8.09E-05
1446	259333.6	4084167	9.87E-04	1.50E-04	8.14E-05
1447	259343.4	4084188	9.91E-04	1.51E-04	8.17E-05
1448	259353.3	4084210	9.91E-04	1.51E-04	8.17E-05
1449	259363.1	4084232	9.89E-04	1.51E-04	8.15E-05
1450	259372.9	4084254	9.84E-04	1.50E-04	8.11E-05

1451	259382.8	4084275	9.76E-04	1.49E-04	8.04E-05
1452	259392.6	4084297	9.66E-04	1.47E-04	7.96E-05
1453	259402.4	4084319	9.53E-04	1.45E-04	7.86E-05
1454	259412.3	4084341	9.39E-04	1.43E-04	7.74E-05
1455	259422.1	4084362	9.22E-04	1.41E-04	7.60E-05
1456	259431.9	4084384	9.05E-04	1.38E-04	7.46E-05
1457	259441.8	4084406	8.90E-04	1.36E-04	7.34E-05
1458	259451.6	4084428	8.72E-04	1.33E-04	7.18E-05
1459	259461.4	4084449	8.53E-04	1.30E-04	7.03E-05
1460	259471.3	4084471	8.34E-04	1.27E-04	6.87E-05
1461	259481.1	4084493	8.14E-04	1.24E-04	6.71E-05
1462	259490.9	4084515	7.95E-04	1.21E-04	6.55E-05
1463	259500.8	4084536	7.74E-04	1.18E-04	6.38E-05
1464	259510.6	4084558	7.53E-04	1.15E-04	6.21E-05
1465	259520.4	4084580	7.31E-04	1.11E-04	6.02E-05
1466	259530.3	4084602	7.07E-04	1.08E-04	5.83E-05
1467	259540.1	4084623	6.82E-04	1.04E-04	5.62E-05
1468	259549.9	4084645	6.57E-04	1.00E-04	5.41E-05
1469	259559.8	4084667	6.32E-04	9.62E-05	5.21E-05
1470	259569.6	4084688	6.07E-04	9.25E-05	5.01E-05
1471	259579.5	4084710	5.84E-04	8.90E-05	4.82E-05
1472	259589.3	4084732	5.63E-04	8.58E-05	4.64E-05
1473	259599.1	4084754	5.44E-04	8.29E-05	4.49E-05
1474	259609	4084775	5.26E-04	8.02E-05	4.34E-05
1475	259618.8	4084797	5.10E-04	7.77E-05	4.20E-05
1476	259628.6	4084819	4.94E-04	7.52E-05	4.07E-05
1477	259638.5	4084841	4.78E-04	7.28E-05	3.94E-05
1478	259648.3	4084862	4.62E-04	7.03E-05	3.80E-05
1479	258305.3	4083623	1.82E-04	2.78E-05	1.50E-05
1480	258281	4083624	1.78E-04	2.71E-05	1.47E-05
1481	258256.6	4083625	1.74E-04	2.65E-05	1.43E-05
1482	258232.3	4083626	1.70E-04	2.59E-05	1.40E-05
1483	258208	4083627	1.66E-04	2.53E-05	1.37E-05
1484	258183.6	4083628	1.62E-04	2.47E-05	1.34E-05
1485	258159.3	4083629	1.58E-04	2.41E-05	1.30E-05
1486	258135	4083630	1.54E-04	2.35E-05	1.27E-05
1487	258110.6	4083631	1.51E-04	2.29E-05	1.24E-05
1488	258086.3	4083632	1.47E-04	2.24E-05	1.21E-05
1489	258062	4083633	1.43E-04	2.18E-05	1.18E-05
1490	258037.6	4083634	1.40E-04	2.13E-05	1.15E-05
1491	258013.3	4083635	1.36E-04	2.07E-05	1.12E-05
1492	257989	4083636	1.33E-04	2.02E-05	1.10E-05
1493	257964.6	4083637	1.30E-04	1.98E-05	1.07E-05
1494	257940.3	4083638	1.27E-04	1.93E-05	1.04E-05
1495	257916	4083639	1.24E-04	1.89E-05	1.02E-05
1496	257891.6	4083640	1.21E-04	1.84E-05	9.97E-06
1497	257867.3	4083641	1.18E-04	1.80E-05	9.76E-06

1498	257843	4083642	1.16E-04	1.77E-05	9.55E-06
1499	257818.6	4083643	1.14E-04	1.73E-05	9.37E-06
1500	257794.3	4083644	1.12E-04	1.70E-05	9.20E-06
1501	257770	4083645	1.10E-04	1.67E-05	9.04E-06
1502	257745.7	4083646	1.08E-04	1.64E-05	8.88E-06
1503	257721.3	4083647	1.06E-04	1.62E-05	8.75E-06
1504	257697	4083648	1.05E-04	1.59E-05	8.62E-06
1505	257672.7	4083649	1.03E-04	1.57E-05	8.50E-06
1506	257648.3	4083650	1.02E-04	1.55E-05	8.39E-06
1507	257624	4083651	1.00E-04	1.53E-05	8.28E-06
1508	257599.7	4083652	9.93E-05	1.51E-05	8.18E-06
1509	257575.3	4083653	9.81E-05	1.49E-05	8.09E-06
1510	257551	4083654	9.69E-05	1.48E-05	7.99E-06
1511	257526.7	4083655	9.59E-05	1.46E-05	7.90E-06
1512	257502.3	4083656	9.47E-05	1.44E-05	7.81E-06
1513	258319.7	4083432	1.40E-04	2.13E-05	1.15E-05
1514	258342.3	4083440	1.44E-04	2.20E-05	1.19E-05
1515	258364.8	4083448	1.49E-04	2.27E-05	1.23E-05
1516	258387.4	4083457	1.54E-04	2.35E-05	1.27E-05
1517	258410	4083465	1.59E-04	2.43E-05	1.31E-05
1518	258432.6	4083474	1.65E-04	2.52E-05	1.36E-05
1519	258455.2	4083482	1.71E-04	2.61E-05	1.41E-05
1520	258477.8	4083490	1.78E-04	2.70E-05	1.46E-05
1521	258500.4	4083499	1.84E-04	2.81E-05	1.52E-05
1522	258523	4083507	1.91E-04	2.92E-05	1.58E-05
1523	258545.6	4083515	1.99E-04	3.03E-05	1.64E-05
1524	258568.2	4083524	2.07E-04	3.16E-05	1.71E-05
1525	258590.8	4083532	2.16E-04	3.29E-05	1.78E-05
1526	258613.3	4083540	2.25E-04	3.43E-05	1.86E-05
1527	258635.9	4083549	2.35E-04	3.58E-05	1.94E-05
1528	258658.5	4083557	2.46E-04	3.75E-05	2.03E-05
1529	258681.1	4083566	2.57E-04	3.92E-05	2.12E-05
1530	258703.7	4083574	2.69E-04	4.10E-05	2.22E-05
1531	258726.3	4083582	2.81E-04	4.29E-05	2.32E-05
1532	258748.9	4083591	2.94E-04	4.48E-05	2.43E-05
1533	258771.5	4083599	3.08E-04	4.69E-05	2.54E-05
1534	258794.1	4083607	3.22E-04	4.90E-05	2.65E-05
1535	258816.7	4083616	3.36E-04	5.12E-05	2.77E-05
1536	258839.3	4083624	3.51E-04	5.34E-05	2.89E-05
1537	258861.8	4083632	3.66E-04	5.57E-05	3.02E-05
1538	258884.4	4083641	3.81E-04	5.81E-05	3.14E-05
1539	258907	4083649	3.97E-04	6.05E-05	3.27E-05
1540	258929.6	4083658	4.14E-04	6.30E-05	3.41E-05
1541	258952.2	4083666	4.30E-04	6.55E-05	3.54E-05
1542	258974.8	4083674	4.47E-04	6.81E-05	3.68E-05
1543	258997.4	4083683	4.64E-04	7.06E-05	3.82E-05
1544	259020	4083691	4.81E-04	7.32E-05	3.96E-05

1545	259042.6	4083699	4.98E-04	7.58E-05	4.10E-05
1546	259065.2	4083708	5.15E-04	7.84E-05	4.24E-05
1547	259087.8	4083716	5.31E-04	8.10E-05	4.38E-05
1548	259110.3	4083724	5.48E-04	8.35E-05	4.52E-05
1549	259132.9	4083733	5.64E-04	8.59E-05	4.65E-05
1550	259155.5	4083741	5.80E-04	8.83E-05	4.78E-05
1551	259178.1	4083750	5.95E-04	9.06E-05	4.90E-05
1552	259200.7	4083758	6.09E-04	9.28E-05	5.02E-05
1553	259223.3	4083766	6.22E-04	9.48E-05	5.13E-05
1554	259245.9	4083775	6.34E-04	9.66E-05	5.23E-05
1555	259268.5	4083783	6.45E-04	9.83E-05	5.32E-05
1556	259291.1	4083791	6.55E-04	9.98E-05	5.40E-05
1557	259313.7	4083800	6.64E-04	1.01E-04	5.47E-05
1558	259336.3	4083808	6.72E-04	1.02E-04	5.54E-05
1559	259358.8	4083816	6.78E-04	1.03E-04	5.59E-05
1560	259391.4	4083847	7.01E-04	1.07E-04	5.78E-05
1561	259401.3	4083869	7.17E-04	1.09E-04	5.91E-05
1562	259411.2	4083891	7.33E-04	1.12E-04	6.04E-05
1563	259421.2	4083913	7.47E-04	1.14E-04	6.16E-05
1564	259431.1	4083935	7.61E-04	1.16E-04	6.27E-05
1565	259441	4083956	7.73E-04	1.18E-04	6.37E-05
1566	259450.9	4083978	7.83E-04	1.19E-04	6.46E-05
1567	259460.9	4084000	7.92E-04	1.21E-04	6.53E-05
1568	259470.8	4084022	8.00E-04	1.22E-04	6.59E-05
1569	259480.7	4084044	8.06E-04	1.23E-04	6.64E-05
1570	259490.7	4084066	8.09E-04	1.23E-04	6.67E-05
1571	259500.6	4084088	8.11E-04	1.24E-04	6.69E-05
1572	259510.5	4084110	8.11E-04	1.24E-04	6.68E-05
1573	259520.4	4084132	8.09E-04	1.23E-04	6.67E-05
1574	259530.4	4084154	8.05E-04	1.23E-04	6.63E-05
1575	259540.3	4084176	7.99E-04	1.22E-04	6.58E-05
1576	259550.2	4084198	7.91E-04	1.20E-04	6.52E-05
1577	259560.2	4084220	7.82E-04	1.19E-04	6.44E-05
1578	259570.1	4084242	7.71E-04	1.17E-04	6.35E-05
1579	259580	4084264	7.59E-04	1.16E-04	6.25E-05
1580	259590	4084286	7.46E-04	1.14E-04	6.15E-05
1581	259599.9	4084308	7.32E-04	1.12E-04	6.04E-05
1582	259609.8	4084330	7.19E-04	1.09E-04	5.92E-05
1583	259619.7	4084352	7.05E-04	1.07E-04	5.81E-05
1584	259629.7	4084374	6.92E-04	1.05E-04	5.70E-05
1585	259639.6	4084395	6.79E-04	1.03E-04	5.60E-05
1586	259649.5	4084417	6.69E-04	1.02E-04	5.51E-05
1587	259659.5	4084439	6.56E-04	9.99E-05	5.41E-05
1588	259669.4	4084461	6.43E-04	9.80E-05	5.30E-05
1589	259679.3	4084483	6.29E-04	9.58E-05	5.19E-05
1590	259689.2	4084505	6.14E-04	9.36E-05	5.06E-05
1591	259699.2	4084527	5.99E-04	9.12E-05	4.93E-05

1592	259709.1	4084549	5.81E-04	8.86E-05	4.79E-05
1593	259719	4084571	5.63E-04	8.58E-05	4.64E-05
1594	259729	4084593	5.44E-04	8.29E-05	4.49E-05
1595	259738.9	4084615	5.25E-04	8.00E-05	4.33E-05
1596	259748.8	4084637	5.06E-04	7.72E-05	4.18E-05
1597	259758.8	4084659	4.89E-04	7.45E-05	4.03E-05
1598	259768.7	4084681	4.73E-04	7.20E-05	3.90E-05
1599	259778.6	4084703	4.58E-04	6.98E-05	3.78E-05
1600	259788.5	4084725	4.45E-04	6.78E-05	3.67E-05
1601	259798.5	4084747	4.33E-04	6.60E-05	3.57E-05
1602	259808.4	4084769	4.22E-04	6.43E-05	3.48E-05
1603	259818.3	4084791	4.11E-04	6.26E-05	3.39E-05
1604	259828.3	4084812	4.00E-04	6.09E-05	3.30E-05
1605	259838.2	4084834	3.89E-04	5.92E-05	3.20E-05
1606	259848.1	4084856	3.77E-04	5.74E-05	3.11E-05
1607	258297.1	4083423	1.36E-04	2.07E-05	1.12E-05
1608	258272.7	4083424	1.33E-04	2.02E-05	1.10E-05
1609	258248.4	4083425	1.30E-04	1.99E-05	1.07E-05
1610	258224.1	4083426	1.28E-04	1.95E-05	1.06E-05
1611	258199.7	4083427	1.26E-04	1.91E-05	1.04E-05
1612	258175.4	4083428	1.23E-04	1.88E-05	1.02E-05
1613	258151.1	4083429	1.21E-04	1.85E-05	9.99E-06
1614	258126.7	4083430	1.19E-04	1.81E-05	9.81E-06
1615	258102.4	4083431	1.17E-04	1.78E-05	9.63E-06
1616	258078.1	4083432	1.15E-04	1.75E-05	9.44E-06
1617	258053.8	4083433	1.12E-04	1.71E-05	9.27E-06
1618	258029.4	4083434	1.10E-04	1.68E-05	9.09E-06
1619	258005.1	4083435	1.08E-04	1.65E-05	8.92E-06
1620	257980.8	4083436	1.06E-04	1.61E-05	8.73E-06
1621	257956.4	4083437	1.04E-04	1.58E-05	8.56E-06
1622	257932.1	4083438	1.02E-04	1.55E-05	8.40E-06
1623	257907.8	4083439	9.99E-05	1.52E-05	8.23E-06
1624	257883.4	4083440	9.80E-05	1.49E-05	8.07E-06
1625	257859.1	4083441	9.62E-05	1.47E-05	7.93E-06
1626	257834.8	4083442	9.44E-05	1.44E-05	7.78E-06
1627	257810.4	4083443	9.28E-05	1.41E-05	7.65E-06
1628	257786.1	4083444	9.11E-05	1.39E-05	7.51E-06
1629	257761.8	4083445	8.97E-05	1.37E-05	7.39E-06
1630	257737.4	4083446	8.82E-05	1.34E-05	7.27E-06
1631	257713.1	4083447	8.68E-05	1.32E-05	7.16E-06
1632	257688.8	4083448	8.55E-05	1.30E-05	7.05E-06
1633	257664.4	4083449	8.43E-05	1.28E-05	6.95E-06
1634	257640.1	4083450	8.31E-05	1.27E-05	6.85E-06
1635	257615.8	4083451	8.19E-05	1.25E-05	6.75E-06
1636	257591.4	4083452	8.09E-05	1.23E-05	6.67E-06
1637	257567.1	4083453	7.99E-05	1.22E-05	6.58E-06
1638	257542.8	4083454	7.88E-05	1.20E-05	6.50E-06

1639	257518.5	4083455	7.78E-05	1.19E-05	6.41E-06
1640	257494.1	4083456	7.69E-05	1.17E-05	6.34E-06
1641	257530.8	4084956	5.88E-03	8.96E-04	4.85E-04
1642	257532.4	4085001	1.56E-02	2.37E-03	1.28E-03
1643	257534.1	4085045	2.48E-02	3.77E-03	2.04E-03
1644	257534.9	4085067	2.77E-02	4.22E-03	2.28E-03
1645	257536.5	4085112	3.11E-02	4.74E-03	2.57E-03
1646	257538.2	4085157	3.01E-02	4.59E-03	2.48E-03
1647	257512.4	4084939	3.68E-03	5.60E-04	3.03E-04
1648	257506.6	4084979	6.17E-03	9.40E-04	5.09E-04
1649	257508.2	4085024	1.18E-02	1.79E-03	9.70E-04
1650	257509.9	4085068	1.68E-02	2.56E-03	1.38E-03
1651	257511.5	4085113	1.98E-02	3.02E-03	1.64E-03
1652	257513.2	4085157	2.04E-02	3.10E-03	1.68E-03
1653	257487.4	4084940	3.03E-03	4.62E-04	2.50E-04
1654	257518	4084896	2.43E-03	3.70E-04	2.00E-04
1655	257481.6	4084980	4.55E-03	6.94E-04	3.75E-04
1656	257483.3	4085025	7.73E-03	1.18E-03	6.38E-04
1657	257484.9	4085069	1.13E-02	1.72E-03	9.30E-04
1658	257486.6	4085114	1.38E-02	2.11E-03	1.14E-03
1659	257488.2	4085158	1.49E-02	2.26E-03	1.22E-03
1660	257462.4	4084941	2.57E-03	3.92E-04	2.12E-04
1661	257475.7	4084905	2.06E-03	3.13E-04	1.70E-04
1662	257499.6	4084879	1.91E-03	2.90E-04	1.57E-04
1663	257456.6	4084981	3.61E-03	5.50E-04	2.98E-04
1664	257458.3	4085026	5.60E-03	8.54E-04	4.62E-04
1665	257459.1	4085048	6.84E-03	1.04E-03	5.64E-04
1666	257460.8	4085092	9.23E-03	1.41E-03	7.61E-04
1667	257462.4	4085137	1.09E-02	1.66E-03	8.97E-04
1668	257412.5	4084943	1.96E-03	2.98E-04	1.61E-04
1669	257425.7	4084907	1.63E-03	2.48E-04	1.34E-04
1670	257439	4084871	1.38E-03	2.10E-04	1.14E-04
1671	257462.9	4084845	1.30E-03	1.98E-04	1.07E-04
1672	257497.6	4084829	1.35E-03	2.06E-04	1.11E-04
1673	257406.7	4084983	2.54E-03	3.87E-04	2.10E-04
1674	257408.3	4085027	3.51E-03	5.35E-04	2.90E-04
1675	257410	4085072	4.78E-03	7.29E-04	3.94E-04
1676	257411.6	4085117	6.10E-03	9.30E-04	5.03E-04
1677	257413.3	4085161	7.07E-03	1.08E-03	5.83E-04
1678	257363.4	4084942	1.55E-03	2.36E-04	1.28E-04
1679	257378.6	4084901	1.29E-03	1.97E-04	1.07E-04
1680	257393.7	4084860	1.10E-03	1.68E-04	9.08E-05
1681	257428.7	4084810	9.66E-04	1.47E-04	7.97E-05
1682	257468.3	4084792	9.96E-04	1.52E-04	8.21E-05
1683	257507.9	4084774	1.03E-03	1.57E-04	8.49E-05
1684	257356.7	4084985	1.95E-03	2.96E-04	1.60E-04
1685	257358.3	4085029	2.52E-03	3.84E-04	2.08E-04

1686	257360	4085074	3.22E-03	4.91E-04	2.66E-04
1687	257361.7	4085118	4.03E-03	6.14E-04	3.32E-04
1688	257363.3	4085163	4.77E-03	7.26E-04	3.93E-04
1689	257313.3	4084944	1.29E-03	1.96E-04	1.06E-04
1690	257328	4084905	1.10E-03	1.68E-04	9.07E-05
1691	257342.7	4084865	9.55E-04	1.45E-04	7.87E-05
1692	257357.5	4084825	8.40E-04	1.28E-04	6.93E-05
1693	257391.4	4084776	7.53E-04	1.15E-04	6.21E-05
1694	257429.9	4084759	7.71E-04	1.17E-04	6.36E-05
1695	257468.5	4084741	7.88E-04	1.20E-04	6.49E-05
1696	257507	4084723	8.09E-04	1.23E-04	6.67E-05
1697	257306.7	4084987	1.57E-03	2.39E-04	1.29E-04
1698	257307.6	4085009	1.75E-03	2.67E-04	1.44E-04
1699	257309.2	4085053	2.15E-03	3.28E-04	1.78E-04
1700	257310.9	4085098	2.62E-03	3.99E-04	2.16E-04
1701	257312.5	4085143	3.13E-03	4.77E-04	2.58E-04
1702	257263.2	4084947	1.10E-03	1.67E-04	9.04E-05
1703	257277.6	4084908	9.51E-04	1.45E-04	7.84E-05
1704	257292.1	4084869	8.36E-04	1.27E-04	6.89E-05
1705	257306.6	4084829	7.45E-04	1.13E-04	6.14E-05
1706	257321	4084790	6.69E-04	1.02E-04	5.52E-05
1707	257354.4	4084743	6.09E-04	9.28E-05	5.02E-05
1708	257392.2	4084725	6.20E-04	9.45E-05	5.11E-05
1709	257430	4084708	6.30E-04	9.60E-05	5.19E-05
1710	257467.8	4084690	6.41E-04	9.77E-05	5.28E-05
1711	257505.6	4084673	6.56E-04	9.99E-05	5.41E-05
1712	257256.8	4084988	1.31E-03	1.99E-04	1.08E-04
1713	257258.4	4085033	1.58E-03	2.40E-04	1.30E-04
1714	257260.1	4085078	1.86E-03	2.84E-04	1.54E-04
1715	257261.7	4085122	2.18E-03	3.32E-04	1.79E-04
1716	257263.4	4085167	2.53E-03	3.85E-04	2.08E-04
1717	257163.6	4084949	8.40E-04	1.28E-04	6.92E-05
1718	257178.7	4084909	7.38E-04	1.12E-04	6.08E-05
1719	257193.9	4084868	6.53E-04	9.95E-05	5.38E-05
1720	257209	4084827	5.87E-04	8.94E-05	4.83E-05
1721	257224.2	4084786	5.32E-04	8.11E-05	4.39E-05
1722	257239.3	4084745	4.86E-04	7.41E-05	4.01E-05
1723	257254.5	4084704	4.45E-04	6.77E-05	3.66E-05
1724	257281.9	4084674	4.28E-04	6.51E-05	3.52E-05
1725	257321.5	4084656	4.33E-04	6.60E-05	3.57E-05
1726	257361.1	4084638	4.39E-04	6.69E-05	3.62E-05
1727	257400.7	4084619	4.45E-04	6.77E-05	3.66E-05
1728	257440.3	4084601	4.50E-04	6.86E-05	3.71E-05
1729	257479.9	4084583	4.59E-04	6.99E-05	3.78E-05
1730	257156.8	4084992	9.74E-04	1.48E-04	8.03E-05
1731	257158.5	4085037	1.13E-03	1.72E-04	9.33E-05
1732	257160.1	4085081	1.28E-03	1.95E-04	1.06E-04

1733	257161.8	4085126	1.42E-03	2.17E-04	1.17E-04
1734	257162.6	4085148	1.50E-03	2.28E-04	1.24E-04
1735	257063.4	4084954	6.82E-04	1.04E-04	5.62E-05
1736	257078.2	4084914	6.09E-04	9.28E-05	5.02E-05
1737	257092.9	4084874	5.46E-04	8.32E-05	4.50E-05
1738	257107.6	4084834	4.94E-04	7.53E-05	4.07E-05
1739	257122.4	4084795	4.52E-04	6.88E-05	3.72E-05
1740	257137.1	4084755	4.16E-04	6.33E-05	3.43E-05
1741	257151.8	4084715	3.85E-04	5.87E-05	3.18E-05
1742	257166.6	4084675	3.58E-04	5.45E-05	2.95E-05
1743	257181.3	4084635	3.32E-04	5.05E-05	2.73E-05
1744	257207.9	4084607	3.21E-04	4.89E-05	2.64E-05
1745	257246.4	4084589	3.24E-04	4.94E-05	2.67E-05
1746	257284.9	4084571	3.28E-04	5.00E-05	2.71E-05
1747	257323.4	4084553	3.33E-04	5.07E-05	2.74E-05
1748	257361.9	4084536	3.37E-04	5.13E-05	2.78E-05
1749	257400.4	4084518	3.41E-04	5.19E-05	2.81E-05
1750	257438.9	4084500	3.45E-04	5.25E-05	2.84E-05
1751	257477.4	4084482	3.49E-04	5.32E-05	2.88E-05
1752	257056.9	4084996	7.73E-04	1.18E-04	6.37E-05
1753	257057.7	4085018	8.26E-04	1.26E-04	6.81E-05
1754	257059.4	4085063	9.23E-04	1.41E-04	7.61E-05
1755	257061	4085107	1.01E-03	1.53E-04	8.29E-05
1756	257062.7	4085152	1.08E-03	1.65E-04	8.90E-05
1757	256963.7	4084957	5.72E-04	8.71E-05	4.71E-05
1758	256978.9	4084916	5.15E-04	7.84E-05	4.24E-05
1759	256994	4084875	4.64E-04	7.08E-05	3.83E-05
1760	257009.2	4084834	4.23E-04	6.45E-05	3.49E-05
1761	257024.3	4084793	3.88E-04	5.91E-05	3.20E-05
1762	257039.5	4084752	3.57E-04	5.44E-05	2.94E-05
1763	257054.6	4084711	3.31E-04	5.04E-05	2.73E-05
1764	257069.8	4084670	3.08E-04	4.70E-05	2.54E-05
1765	257084.9	4084630	2.88E-04	4.39E-05	2.38E-05
1766	257100.1	4084589	2.70E-04	4.11E-05	2.22E-05
1767	257135	4084539	2.53E-04	3.86E-05	2.09E-05
1768	257174.6	4084520	2.56E-04	3.89E-05	2.11E-05
1769	257214.2	4084502	2.59E-04	3.95E-05	2.14E-05
1770	257253.8	4084484	2.64E-04	4.02E-05	2.17E-05
1771	257293.5	4084465	2.68E-04	4.08E-05	2.21E-05
1772	257333.1	4084447	2.71E-04	4.12E-05	2.23E-05
1773	257372.7	4084429	2.72E-04	4.15E-05	2.24E-05
1774	257412.3	4084410	2.73E-04	4.16E-05	2.25E-05
1775	257451.9	4084392	2.74E-04	4.17E-05	2.26E-05
1776	257491.5	4084374	2.75E-04	4.19E-05	2.26E-05
1777	256957	4085000	6.40E-04	9.75E-05	5.27E-05
1778	256958.6	4085044	7.12E-04	1.09E-04	5.87E-05
1779	256960.3	4085089	7.72E-04	1.18E-04	6.36E-05

1780	256961.9	4085133	8.18E-04	1.25E-04	6.74E-05
1781	256963.6	4085178	8.61E-04	1.31E-04	7.10E-05
1782	256863.9	4084960	4.93E-04	7.50E-05	4.06E-05
1783	256879.4	4084918	4.46E-04	6.79E-05	3.68E-05
1784	256894.9	4084877	4.05E-04	6.17E-05	3.34E-05
1785	256910.3	4084835	3.71E-04	5.65E-05	3.06E-05
1786	256925.8	4084793	3.42E-04	5.22E-05	2.82E-05
1787	256941.3	4084751	3.17E-04	4.82E-05	2.61E-05
1788	256956.7	4084710	2.93E-04	4.46E-05	2.41E-05
1789	256972.2	4084668	2.72E-04	4.14E-05	2.24E-05
1790	256987.7	4084626	2.54E-04	3.87E-05	2.09E-05
1791	257003.1	4084584	2.39E-04	3.64E-05	1.97E-05
1792	257018.6	4084542	2.26E-04	3.44E-05	1.86E-05
1793	257034.1	4084501	2.13E-04	3.24E-05	1.75E-05
1794	257062	4084470	2.07E-04	3.16E-05	1.71E-05
1795	257102.5	4084452	2.10E-04	3.19E-05	1.73E-05
1796	257142.9	4084433	2.13E-04	3.25E-05	1.76E-05
1797	257183.3	4084414	2.17E-04	3.31E-05	1.79E-05
1798	257223.7	4084396	2.21E-04	3.37E-05	1.82E-05
1799	257264.2	4084377	2.24E-04	3.41E-05	1.84E-05
1800	257304.6	4084358	2.25E-04	3.42E-05	1.85E-05
1801	257345	4084340	2.24E-04	3.41E-05	1.84E-05
1802	257385.5	4084321	2.22E-04	3.38E-05	1.83E-05
1803	257425.9	4084302	2.20E-04	3.36E-05	1.82E-05
1804	257466.3	4084284	2.20E-04	3.35E-05	1.81E-05
1805	256857	4085003	5.46E-04	8.31E-05	4.50E-05
1806	256858.7	4085048	5.99E-04	9.13E-05	4.94E-05
1807	256860.3	4085092	6.41E-04	9.76E-05	5.28E-05
1808	256862	4085137	6.71E-04	1.02E-04	5.53E-05
1809	256863.6	4085182	6.98E-04	1.06E-04	5.75E-05
1810	256664	4084968	3.89E-04	5.92E-05	3.20E-05
1811	256679.4	4084926	3.56E-04	5.42E-05	2.94E-05
1812	256694.8	4084884	3.26E-04	4.97E-05	2.69E-05
1813	256710.2	4084843	3.01E-04	4.59E-05	2.48E-05
1814	256725.6	4084801	2.82E-04	4.29E-05	2.32E-05
1815	256741	4084760	2.65E-04	4.03E-05	2.18E-05
1816	256756.4	4084718	2.49E-04	3.79E-05	2.05E-05
1817	256771.8	4084677	2.32E-04	3.54E-05	1.92E-05
1818	256787.2	4084635	2.16E-04	3.29E-05	1.78E-05
1819	256802.6	4084593	2.01E-04	3.06E-05	1.65E-05
1820	256818	4084552	1.88E-04	2.86E-05	1.55E-05
1821	256833.4	4084510	1.78E-04	2.71E-05	1.47E-05
1822	256848.8	4084469	1.70E-04	2.59E-05	1.40E-05
1823	256864.2	4084427	1.63E-04	2.49E-05	1.35E-05
1824	256879.6	4084386	1.57E-04	2.40E-05	1.30E-05
1825	256915.1	4084335	1.52E-04	2.32E-05	1.26E-05
1826	256955.3	4084316	1.54E-04	2.35E-05	1.27E-05

1827	256995.6	4084298	1.57E-04	2.39E-05	1.29E-05
1828	257035.8	4084279	1.60E-04	2.43E-05	1.32E-05
1829	257076.1	4084260	1.63E-04	2.48E-05	1.34E-05
1830	257116.3	4084242	1.65E-04	2.51E-05	1.36E-05
1831	257156.6	4084223	1.65E-04	2.52E-05	1.36E-05
1832	257196.8	4084205	1.64E-04	2.51E-05	1.36E-05
1833	257237.1	4084186	1.62E-04	2.47E-05	1.34E-05
1834	257277.3	4084167	1.60E-04	2.43E-05	1.32E-05
1835	257317.5	4084149	1.57E-04	2.39E-05	1.29E-05
1836	257357.8	4084130	1.55E-04	2.36E-05	1.28E-05
1837	257398	4084112	1.54E-04	2.35E-05	1.27E-05
1838	257438.3	4084093	1.55E-04	2.36E-05	1.28E-05
1839	257478.5	4084074	1.56E-04	2.38E-05	1.29E-05
1840	256657.2	4085011	4.22E-04	6.44E-05	3.48E-05
1841	256658.8	4085055	4.54E-04	6.92E-05	3.75E-05
1842	256660.5	4085100	4.77E-04	7.26E-05	3.93E-05
1843	256662.1	4085144	4.92E-04	7.50E-05	4.06E-05
1844	256663	4085167	4.98E-04	7.59E-05	4.11E-05
1845	256464.2	4084975	3.22E-04	4.91E-05	2.66E-05
1846	256479.5	4084934	2.98E-04	4.55E-05	2.46E-05
1847	256494.9	4084892	2.76E-04	4.20E-05	2.27E-05
1848	256510.2	4084851	2.55E-04	3.89E-05	2.11E-05
1849	256525.6	4084809	2.39E-04	3.65E-05	1.97E-05
1850	256540.9	4084768	2.27E-04	3.45E-05	1.87E-05
1851	256556.3	4084726	2.16E-04	3.29E-05	1.78E-05
1852	256571.6	4084685	2.06E-04	3.14E-05	1.70E-05
1853	256587	4084643	1.95E-04	2.97E-05	1.61E-05
1854	256602.3	4084602	1.83E-04	2.78E-05	1.51E-05
1855	256617.7	4084561	1.70E-04	2.59E-05	1.40E-05
1856	256633	4084519	1.58E-04	2.40E-05	1.30E-05
1857	256648.4	4084478	1.47E-04	2.25E-05	1.22E-05
1858	256663.7	4084436	1.40E-04	2.13E-05	1.15E-05
1859	256679.1	4084395	1.34E-04	2.05E-05	1.11E-05
1860	256694.4	4084353	1.30E-04	1.99E-05	1.07E-05
1861	256709.8	4084312	1.27E-04	1.94E-05	1.05E-05
1862	256725.1	4084270	1.25E-04	1.90E-05	1.03E-05
1863	256740.5	4084229	1.22E-04	1.86E-05	1.01E-05
1864	256768.2	4084199	1.22E-04	1.85E-05	1.00E-05
1865	256808.3	4084180	1.23E-04	1.87E-05	1.01E-05
1866	256848.5	4084162	1.25E-04	1.90E-05	1.03E-05
1867	256888.6	4084143	1.26E-04	1.92E-05	1.04E-05
1868	256928.7	4084125	1.28E-04	1.95E-05	1.06E-05
1869	256968.8	4084106	1.29E-04	1.97E-05	1.07E-05
1870	257009	4084088	1.30E-04	1.98E-05	1.07E-05
1871	257049.1	4084069	1.29E-04	1.97E-05	1.07E-05
1872	257089.2	4084051	1.28E-04	1.95E-05	1.06E-05
1873	257129.3	4084032	1.26E-04	1.92E-05	1.04E-05

1874	257169.5	4084014	1.24E-04	1.89E-05	1.02E-05
1875	257209.6	4083995	1.22E-04	1.86E-05	1.01E-05
1876	257249.7	4083977	1.21E-04	1.84E-05	9.96E-06
1877	257289.9	4083958	1.20E-04	1.82E-05	9.87E-06
1878	257330	4083939	1.19E-04	1.82E-05	9.82E-06
1879	257370.1	4083921	1.19E-04	1.82E-05	9.82E-06
1880	257410.2	4083902	1.19E-04	1.82E-05	9.85E-06
1881	257450.4	4083884	1.20E-04	1.83E-05	9.89E-06
1882	256457.3	4085018	3.45E-04	5.26E-05	2.85E-05
1883	256459	4085063	3.66E-04	5.57E-05	3.02E-05
1884	256460.6	4085107	3.79E-04	5.78E-05	3.13E-05
1885	256462.3	4085152	3.88E-04	5.91E-05	3.20E-05
1886	256463.9	4085196	3.95E-04	6.01E-05	3.25E-05
1887	256264.3	4084983	2.76E-04	4.20E-05	2.27E-05
1888	256279.6	4084941	2.58E-04	3.93E-05	2.13E-05
1889	256294.9	4084900	2.40E-04	3.66E-05	1.98E-05
1890	256310.2	4084858	2.24E-04	3.41E-05	1.84E-05
1891	256325.6	4084817	2.10E-04	3.19E-05	1.73E-05
1892	256340.9	4084776	1.99E-04	3.03E-05	1.64E-05
1893	256356.2	4084734	1.90E-04	2.89E-05	1.56E-05
1894	256371.5	4084693	1.83E-04	2.78E-05	1.50E-05
1895	256386.8	4084652	1.76E-04	2.68E-05	1.45E-05
1896	256402.2	4084610	1.68E-04	2.56E-05	1.39E-05
1897	256417.5	4084569	1.60E-04	2.44E-05	1.32E-05
1898	256432.8	4084527	1.50E-04	2.29E-05	1.24E-05
1899	256448.1	4084486	1.39E-04	2.12E-05	1.15E-05
1900	256463.4	4084445	1.29E-04	1.97E-05	1.07E-05
1901	256478.7	4084403	1.21E-04	1.84E-05	9.96E-06
1902	256494.1	4084362	1.14E-04	1.74E-05	9.41E-06
1903	256509.4	4084321	1.10E-04	1.67E-05	9.04E-06
1904	256524.7	4084279	1.07E-04	1.63E-05	8.82E-06
1905	256540	4084238	1.06E-04	1.61E-05	8.70E-06
1906	256555.3	4084197	1.05E-04	1.59E-05	8.62E-06
1907	256570.7	4084155	1.04E-04	1.58E-05	8.56E-06
1908	256586	4084114	1.03E-04	1.57E-05	8.50E-06
1909	256621.3	4084063	1.02E-04	1.56E-05	8.44E-06
1910	256661.4	4084045	1.03E-04	1.57E-05	8.51E-06
1911	256701.4	4084026	1.04E-04	1.58E-05	8.56E-06
1912	256741.5	4084008	1.04E-04	1.59E-05	8.61E-06
1913	256781.5	4083989	1.05E-04	1.60E-05	8.66E-06
1914	256821.6	4083971	1.06E-04	1.61E-05	8.70E-06
1915	256861.6	4083952	1.06E-04	1.61E-05	8.71E-06
1916	256901.6	4083934	1.06E-04	1.61E-05	8.70E-06
1917	256941.7	4083915	1.05E-04	1.60E-05	8.65E-06
1918	256981.7	4083897	1.04E-04	1.58E-05	8.57E-06
1919	257021.8	4083878	1.03E-04	1.57E-05	8.49E-06
1920	257061.8	4083860	1.02E-04	1.55E-05	8.40E-06

1921	257101.9	4083841	1.01E-04	1.54E-05	8.33E-06
1922	257141.9	4083823	1.00E-04	1.53E-05	8.26E-06
1923	257182	4083804	9.93E-05	1.51E-05	8.18E-06
1924	257222	4083786	9.84E-05	1.50E-05	8.11E-06
1925	257262.1	4083767	9.77E-05	1.49E-05	8.05E-06
1926	257302.1	4083749	9.69E-05	1.48E-05	7.99E-06
1927	257342.2	4083730	9.62E-05	1.47E-05	7.93E-06
1928	257382.2	4083712	9.56E-05	1.46E-05	7.88E-06
1929	257422.2	4083693	9.51E-05	1.45E-05	7.84E-06
1930	257462.3	4083675	9.48E-05	1.44E-05	7.82E-06
1931	256257.5	4085025	2.92E-04	4.45E-05	2.41E-05
1932	256259.1	4085070	3.06E-04	4.67E-05	2.52E-05
1933	256260.8	4085115	3.15E-04	4.80E-05	2.60E-05
1934	256261.6	4085137	3.18E-04	4.84E-05	2.62E-05
1935	256263.2	4085181	3.22E-04	4.90E-05	2.65E-05
1936	256064.4	4084990	2.41E-04	3.68E-05	1.99E-05
1937	256079.7	4084949	2.28E-04	3.48E-05	1.88E-05
1938	256095	4084907	2.14E-04	3.26E-05	1.76E-05
1939	256110.3	4084866	2.00E-04	3.05E-05	1.65E-05
1940	256125.6	4084825	1.88E-04	2.87E-05	1.55E-05
1941	256140.9	4084783	1.78E-04	2.71E-05	1.47E-05
1942	256156.2	4084742	1.70E-04	2.59E-05	1.40E-05
1943	256171.5	4084701	1.64E-04	2.49E-05	1.35E-05
1944	256186.8	4084660	1.58E-04	2.41E-05	1.31E-05
1945	256202.1	4084618	1.54E-04	2.34E-05	1.27E-05
1946	256217.4	4084577	1.48E-04	2.26E-05	1.22E-05
1947	256232.7	4084536	1.42E-04	2.17E-05	1.17E-05
1948	256248	4084494	1.35E-04	2.06E-05	1.11E-05
1949	256263.3	4084453	1.27E-04	1.93E-05	1.04E-05
1950	256278.6	4084412	1.18E-04	1.80E-05	9.72E-06
1951	256293.9	4084370	1.09E-04	1.67E-05	9.01E-06
1952	256309.2	4084329	1.02E-04	1.55E-05	8.40E-06
1953	256324.4	4084288	9.62E-05	1.47E-05	7.93E-06
1954	256339.7	4084246	9.22E-05	1.40E-05	7.60E-06
1955	256355	4084205	8.98E-05	1.37E-05	7.40E-06
1956	256370.3	4084164	8.89E-05	1.35E-05	7.33E-06
1957	256385.6	4084123	8.89E-05	1.35E-05	7.33E-06
1958	256400.9	4084081	8.94E-05	1.36E-05	7.37E-06
1959	256416.2	4084040	8.97E-05	1.37E-05	7.39E-06
1960	256431.5	4083999	8.98E-05	1.37E-05	7.40E-06
1961	256446.8	4083957	8.92E-05	1.36E-05	7.35E-06
1962	256474.5	4083927	8.91E-05	1.36E-05	7.34E-06
1963	256514.4	4083909	8.94E-05	1.36E-05	7.37E-06
1964	256554.4	4083890	8.94E-05	1.36E-05	7.37E-06
1965	256594.4	4083872	8.91E-05	1.36E-05	7.34E-06
1966	256634.4	4083854	8.88E-05	1.35E-05	7.32E-06
1967	256674.4	4083835	8.86E-05	1.35E-05	7.30E-06

1968	256714.4	4083817	8.85E-05	1.35E-05	7.29E-06
1969	256754.4	4083798	8.83E-05	1.35E-05	7.28E-06
1970	256794.4	4083780	8.80E-05	1.34E-05	7.26E-06
1971	256834.3	4083761	8.77E-05	1.34E-05	7.23E-06
1972	256874.3	4083743	8.76E-05	1.33E-05	7.22E-06
1973	256914.3	4083724	8.73E-05	1.33E-05	7.19E-06
1974	256954.3	4083706	8.70E-05	1.33E-05	7.17E-06
1975	256994.3	4083687	8.67E-05	1.32E-05	7.15E-06
1976	257034.3	4083669	8.62E-05	1.31E-05	7.11E-06
1977	257074.3	4083650	8.57E-05	1.30E-05	7.06E-06
1978	257114.2	4083632	8.49E-05	1.29E-05	7.00E-06
1979	257154.2	4083613	8.40E-05	1.28E-05	6.93E-06
1980	257194.2	4083595	8.28E-05	1.26E-05	6.83E-06
1981	257234.2	4083576	8.15E-05	1.24E-05	6.72E-06
1982	257274.2	4083558	8.02E-05	1.22E-05	6.61E-06
1983	257314.2	4083539	7.88E-05	1.20E-05	6.50E-06
1984	257354.2	4083521	7.78E-05	1.19E-05	6.41E-06
1985	257394.2	4083503	7.71E-05	1.17E-05	6.35E-06
1986	257434.1	4083484	7.68E-05	1.17E-05	6.33E-06
1987	256057.6	4085033	2.53E-04	3.86E-05	2.09E-05
1988	256059.2	4085077	2.63E-04	4.01E-05	2.17E-05
1989	256060.9	4085122	2.69E-04	4.10E-05	2.22E-05
1990	256062.5	4085167	2.72E-04	4.15E-05	2.24E-05
1991	256064.2	4085211	2.74E-04	4.18E-05	2.26E-05
1992	257564.3	4085181	3.31E-02	5.04E-03	2.72E-03
1993	257588.6	4085180	3.90E-02	5.94E-03	3.21E-03
1994	257612.8	4085178	4.25E-02	6.47E-03	3.50E-03
1995	257637.1	4085177	4.47E-02	6.80E-03	3.68E-03
1996	257661.4	4085176	4.61E-02	7.03E-03	3.80E-03
1997	257685.7	4085175	4.72E-02	7.18E-03	3.89E-03
1998	257710	4085174	4.79E-02	7.30E-03	3.95E-03
1999	257734.2	4085173	4.85E-02	7.38E-03	4.00E-03
2000	257758.5	4085172	4.89E-02	7.45E-03	4.03E-03
2001	257782.8	4085171	4.92E-02	7.49E-03	4.05E-03
2002	257807.1	4085170	4.94E-02	7.53E-03	4.07E-03
2003	257831.4	4085169	4.95E-02	7.55E-03	4.08E-03
2004	257855.7	4085168	4.96E-02	7.56E-03	4.09E-03
2005	257879.9	4085167	4.97E-02	7.57E-03	4.10E-03
2006	257904.2	4085166	4.97E-02	7.57E-03	4.09E-03
2007	257928.5	4085164	4.96E-02	7.56E-03	4.09E-03
2008	257952.8	4085163	4.95E-02	7.55E-03	4.08E-03
2009	257977.1	4085162	4.94E-02	7.52E-03	4.07E-03
2010	258001.3	4085161	4.92E-02	7.50E-03	4.06E-03
2011	258025.6	4085160	4.90E-02	7.46E-03	4.04E-03
2012	258049.9	4085159	4.87E-02	7.42E-03	4.01E-03
2013	258074.2	4085158	4.83E-02	7.36E-03	3.98E-03
2014	258098.5	4085157	4.70E-02	7.17E-03	3.88E-03

2015	258122.8	4085156	4.64E-02	7.07E-03	3.83E-03
2016	258147	4085155	4.57E-02	6.96E-03	3.77E-03
2017	258171.3	4085154	4.48E-02	6.82E-03	3.69E-03
2018	258195.6	4085153	4.36E-02	6.64E-03	3.59E-03
2019	258219.9	4085152	4.21E-02	6.41E-03	3.47E-03
2020	258244.2	4085150	4.01E-02	6.11E-03	3.31E-03
2021	258268.4	4085149	3.75E-02	5.71E-03	3.09E-03
2022	258292.7	4085148	3.39E-02	5.16E-03	2.79E-03
2023	258317	4085147	2.89E-02	4.41E-03	2.38E-03
2024	258341.3	4085146	2.25E-02	3.43E-03	1.86E-03
2025	258365.6	4085145	1.62E-02	2.47E-03	1.34E-03
2026	257547.3	4085199	2.29E-02	3.49E-03	1.89E-03
2027	257589.7	4085204	2.66E-02	4.06E-03	2.19E-03
2028	257613.9	4085203	2.86E-02	4.36E-03	2.36E-03
2029	257638.2	4085202	3.00E-02	4.57E-03	2.47E-03
2030	257662.5	4085201	3.10E-02	4.72E-03	2.56E-03
2031	257686.8	4085200	3.17E-02	4.84E-03	2.62E-03
2032	257711.1	4085199	3.23E-02	4.92E-03	2.66E-03
2033	257735.4	4085198	3.28E-02	4.99E-03	2.70E-03
2034	257759.6	4085197	3.31E-02	5.04E-03	2.73E-03
2035	257783.9	4085196	3.33E-02	5.08E-03	2.75E-03
2036	257808.2	4085195	3.35E-02	5.11E-03	2.76E-03
2037	257832.5	4085194	3.37E-02	5.13E-03	2.78E-03
2038	257856.8	4085193	3.38E-02	5.14E-03	2.78E-03
2039	257881	4085192	3.38E-02	5.15E-03	2.79E-03
2040	257905.3	4085190	3.38E-02	5.15E-03	2.79E-03
2041	257929.6	4085189	3.38E-02	5.14E-03	2.78E-03
2042	257953.9	4085188	3.37E-02	5.13E-03	2.78E-03
2043	257978.2	4085187	3.31E-02	5.05E-03	2.73E-03
2044	258002.5	4085186	3.29E-02	5.02E-03	2.71E-03
2045	258026.7	4085185	3.27E-02	4.98E-03	2.70E-03
2046	258051	4085184	3.24E-02	4.94E-03	2.67E-03
2047	258075.3	4085183	3.20E-02	4.88E-03	2.64E-03
2048	258099.6	4085182	3.15E-02	4.81E-03	2.60E-03
2049	258123.9	4085181	3.10E-02	4.72E-03	2.55E-03
2050	258148.1	4085180	3.03E-02	4.61E-03	2.49E-03
2051	258172.4	4085179	2.94E-02	4.48E-03	2.42E-03
2052	258196.7	4085178	2.83E-02	4.31E-03	2.33E-03
2053	258221	4085177	2.69E-02	4.10E-03	2.22E-03
2054	258245.3	4085175	2.52E-02	3.84E-03	2.08E-03
2055	258269.6	4085174	2.31E-02	3.51E-03	1.90E-03
2056	258293.8	4085173	2.05E-02	3.12E-03	1.69E-03
2057	258318.1	4085172	1.74E-02	2.65E-03	1.43E-03
2058	258342.4	4085171	1.41E-02	2.15E-03	1.16E-03
2059	257548.4	4085224	1.82E-02	2.78E-03	1.50E-03
2060	257504.3	4085193	1.64E-02	2.49E-03	1.35E-03
2061	257590.8	4085229	2.02E-02	3.08E-03	1.67E-03

2062	257615	4085228	2.15E-02	3.28E-03	1.77E-03
2063	257639.3	4085227	2.25E-02	3.42E-03	1.85E-03
2064	257663.6	4085226	2.32E-02	3.54E-03	1.91E-03
2065	257687.9	4085225	2.38E-02	3.62E-03	1.96E-03
2066	257712.2	4085224	2.42E-02	3.69E-03	2.00E-03
2067	257736.5	4085223	2.45E-02	3.74E-03	2.02E-03
2068	257760.7	4085222	2.48E-02	3.78E-03	2.04E-03
2069	257785	4085221	2.50E-02	3.81E-03	2.06E-03
2070	257809.3	4085220	2.51E-02	3.83E-03	2.07E-03
2071	257833.6	4085219	2.52E-02	3.85E-03	2.08E-03
2072	257857.9	4085218	2.53E-02	3.86E-03	2.09E-03
2073	257882.1	4085217	2.53E-02	3.86E-03	2.09E-03
2074	257906.4	4085215	2.52E-02	3.84E-03	2.08E-03
2075	257930.7	4085214	2.50E-02	3.81E-03	2.06E-03
2076	257955	4085213	2.49E-02	3.79E-03	2.05E-03
2077	257979.3	4085212	2.47E-02	3.77E-03	2.04E-03
2078	258003.6	4085211	2.45E-02	3.74E-03	2.02E-03
2079	258027.8	4085210	2.43E-02	3.70E-03	2.00E-03
2080	258052.1	4085209	2.40E-02	3.65E-03	1.98E-03
2081	258076.4	4085208	2.36E-02	3.60E-03	1.95E-03
2082	258100.7	4085207	2.31E-02	3.52E-03	1.91E-03
2083	258125	4085206	2.26E-02	3.44E-03	1.86E-03
2084	258149.2	4085205	2.19E-02	3.34E-03	1.80E-03
2085	258173.5	4085204	2.11E-02	3.21E-03	1.74E-03
2086	258197.8	4085203	2.01E-02	3.06E-03	1.66E-03
2087	258222.1	4085201	1.89E-02	2.88E-03	1.56E-03
2088	258246.4	4085200	1.75E-02	2.67E-03	1.44E-03
2089	258270.7	4085199	1.59E-02	2.42E-03	1.31E-03
2090	258294.9	4085198	1.41E-02	2.14E-03	1.16E-03
2091	258319.2	4085197	1.21E-02	1.85E-03	9.98E-04
2092	258343.5	4085196	1.02E-02	1.55E-03	8.38E-04
2093	258367.8	4085195	8.43E-03	1.28E-03	6.95E-04
2094	257549.5	4085249	1.51E-02	2.29E-03	1.24E-03
2095	257513.4	4085236	1.39E-02	2.12E-03	1.15E-03
2096	257487.3	4085212	1.32E-02	2.00E-03	1.08E-03
2097	257471.3	4085177	1.23E-02	1.87E-03	1.01E-03
2098	257591.9	4085254	1.63E-02	2.48E-03	1.34E-03
2099	257616.2	4085253	1.72E-02	2.62E-03	1.42E-03
2100	257640.4	4085252	1.79E-02	2.72E-03	1.47E-03
2101	257664.7	4085251	1.84E-02	2.81E-03	1.52E-03
2102	257689	4085250	1.89E-02	2.87E-03	1.55E-03
2103	257713.3	4085249	1.92E-02	2.92E-03	1.58E-03
2104	257737.6	4085248	1.95E-02	2.96E-03	1.60E-03
2105	257761.8	4085247	1.97E-02	2.99E-03	1.62E-03
2106	257786.1	4085246	1.98E-02	3.02E-03	1.63E-03
2107	257810.4	4085245	1.99E-02	3.03E-03	1.64E-03
2108	257834.7	4085244	2.00E-02	3.04E-03	1.65E-03

2109	257859	4085243	2.00E-02	3.05E-03	1.65E-03
2110	257883.3	4085242	1.99E-02	3.03E-03	1.64E-03
2111	257907.5	4085240	1.98E-02	3.01E-03	1.63E-03
2112	257931.8	4085239	1.97E-02	3.00E-03	1.62E-03
2113	257956.1	4085238	1.96E-02	2.98E-03	1.61E-03
2114	257980.4	4085237	1.94E-02	2.96E-03	1.60E-03
2115	258004.7	4085236	1.92E-02	2.93E-03	1.58E-03
2116	258028.9	4085235	1.89E-02	2.89E-03	1.56E-03
2117	258053.2	4085234	1.86E-02	2.84E-03	1.54E-03
2118	258077.5	4085233	1.83E-02	2.78E-03	1.50E-03
2119	258101.8	4085232	1.78E-02	2.71E-03	1.47E-03
2120	258126.1	4085231	1.73E-02	2.63E-03	1.42E-03
2121	258150.4	4085230	1.67E-02	2.54E-03	1.37E-03
2122	258174.6	4085229	1.59E-02	2.43E-03	1.31E-03
2123	258198.9	4085228	1.51E-02	2.30E-03	1.24E-03
2124	258223.2	4085226	1.41E-02	2.15E-03	1.16E-03
2125	258247.5	4085225	1.30E-02	1.98E-03	1.07E-03
2126	258271.8	4085224	1.18E-02	1.80E-03	9.71E-04
2127	258296	4085223	1.05E-02	1.60E-03	8.63E-04
2128	258320.3	4085222	9.15E-03	1.39E-03	7.54E-04
2129	258344.6	4085221	7.87E-03	1.20E-03	6.49E-04
2130	257548.1	4085298	1.10E-02	1.68E-03	9.06E-04
2131	257526.5	4085290	1.08E-02	1.65E-03	8.90E-04
2132	257504.8	4085282	1.04E-02	1.59E-03	8.61E-04
2133	257483.2	4085274	9.90E-03	1.51E-03	8.16E-04
2134	257451.9	4085245	9.31E-03	1.42E-03	7.68E-04
2135	257442.2	4085224	9.14E-03	1.39E-03	7.53E-04
2136	257432.6	4085203	8.65E-03	1.32E-03	7.13E-04
2137	257422.9	4085182	7.92E-03	1.21E-03	6.53E-04
2138	257569.8	4085305	1.10E-02	1.68E-03	9.10E-04
2139	257594.1	4085304	1.16E-02	1.77E-03	9.57E-04
2140	257618.4	4085303	1.21E-02	1.84E-03	9.96E-04
2141	257642.6	4085302	1.25E-02	1.90E-03	1.03E-03
2142	257666.9	4085301	1.28E-02	1.95E-03	1.05E-03
2143	257691.2	4085300	1.31E-02	1.99E-03	1.08E-03
2144	257715.5	4085299	1.33E-02	2.02E-03	1.09E-03
2145	257739.8	4085298	1.34E-02	2.04E-03	1.11E-03
2146	257764.1	4085297	1.35E-02	2.06E-03	1.12E-03
2147	257788.3	4085296	1.36E-02	2.07E-03	1.12E-03
2148	257812.6	4085295	1.36E-02	2.07E-03	1.12E-03
2149	257836.9	4085294	1.36E-02	2.07E-03	1.12E-03
2150	257861.2	4085293	1.35E-02	2.06E-03	1.11E-03
2151	257885.5	4085291	1.35E-02	2.05E-03	1.11E-03
2152	257909.7	4085290	1.34E-02	2.04E-03	1.10E-03
2153	257934	4085289	1.33E-02	2.02E-03	1.09E-03
2154	257958.3	4085288	1.31E-02	2.00E-03	1.08E-03
2155	257982.6	4085287	1.29E-02	1.97E-03	1.07E-03

2156	258006.9	4085286	1.27E-02	1.94E-03	1.05E-03
2157	258031.2	4085285	1.25E-02	1.90E-03	1.03E-03
2158	258055.4	4085284	1.22E-02	1.86E-03	1.00E-03
2159	258079.7	4085283	1.19E-02	1.81E-03	9.77E-04
2160	258104	4085282	1.15E-02	1.75E-03	9.46E-04
2161	258128.3	4085281	1.10E-02	1.68E-03	9.11E-04
2162	258152.6	4085280	1.06E-02	1.61E-03	8.71E-04
2163	258176.8	4085279	1.00E-02	1.53E-03	8.27E-04
2164	258201.1	4085277	9.43E-03	1.44E-03	7.78E-04
2165	258225.4	4085276	8.78E-03	1.34E-03	7.24E-04
2166	258249.7	4085275	8.09E-03	1.23E-03	6.67E-04
2167	258274	4085274	7.38E-03	1.12E-03	6.08E-04
2168	258298.3	4085273	6.66E-03	1.01E-03	5.49E-04
2169	258322.5	4085272	5.96E-03	9.08E-04	4.91E-04
2170	258346.8	4085271	5.29E-03	8.06E-04	4.36E-04
2171	258371.1	4085270	4.68E-03	7.13E-04	3.86E-04
2172	257551.4	4085348	8.54E-03	1.30E-03	7.04E-04
2173	257510.1	4085333	8.36E-03	1.27E-03	6.89E-04
2174	257468.9	4085318	7.87E-03	1.20E-03	6.49E-04
2175	257418.4	4085283	7.11E-03	1.08E-03	5.86E-04
2176	257400	4085243	6.80E-03	1.04E-03	5.61E-04
2177	257381.7	4085203	5.92E-03	9.02E-04	4.88E-04
2178	257596.3	4085354	8.85E-03	1.35E-03	7.29E-04
2179	257620.6	4085353	9.12E-03	1.39E-03	7.52E-04
2180	257644.9	4085352	9.35E-03	1.42E-03	7.71E-04
2181	257669.1	4085351	9.54E-03	1.45E-03	7.86E-04
2182	257693.4	4085350	9.69E-03	1.48E-03	7.99E-04
2183	257717.7	4085349	9.82E-03	1.50E-03	8.09E-04
2184	257742	4085348	9.88E-03	1.51E-03	8.14E-04
2185	257766.3	4085347	9.89E-03	1.51E-03	8.15E-04
2186	257790.6	4085346	9.91E-03	1.51E-03	8.17E-04
2187	257814.8	4085345	9.91E-03	1.51E-03	8.17E-04
2188	257839.1	4085344	9.88E-03	1.50E-03	8.14E-04
2189	257863.4	4085343	9.82E-03	1.50E-03	8.09E-04
2190	257887.7	4085341	9.74E-03	1.48E-03	8.03E-04
2191	257912	4085340	9.64E-03	1.47E-03	7.95E-04
2192	257936.2	4085339	9.52E-03	1.45E-03	7.84E-04
2193	257960.5	4085338	9.37E-03	1.43E-03	7.72E-04
2194	257984.8	4085337	9.20E-03	1.40E-03	7.58E-04
2195	258009.1	4085336	9.00E-03	1.37E-03	7.42E-04
2196	258033.4	4085335	8.78E-03	1.34E-03	7.24E-04
2197	258057.7	4085334	8.54E-03	1.30E-03	7.04E-04
2198	258081.9	4085333	8.27E-03	1.26E-03	6.82E-04
2199	258106.2	4085332	7.97E-03	1.21E-03	6.57E-04
2200	258130.5	4085331	7.64E-03	1.16E-03	6.30E-04
2201	258154.8	4085330	7.28E-03	1.11E-03	6.00E-04
2202	258179.1	4085329	6.89E-03	1.05E-03	5.68E-04

2203	258203.3	4085327	6.47E-03	9.85E-04	5.33E-04
2204	258227.6	4085326	6.03E-03	9.18E-04	4.97E-04
2205	258251.9	4085325	5.58E-03	8.50E-04	4.60E-04
2206	258276.2	4085324	5.14E-03	7.83E-04	4.24E-04
2207	258300.5	4085323	4.71E-03	7.17E-04	3.88E-04
2208	258324.8	4085322	4.28E-03	6.52E-04	3.53E-04
2209	258349	4085321	3.87E-03	5.90E-04	3.19E-04
2210	258373.3	4085320	3.50E-03	5.33E-04	2.88E-04
2211	257551.7	4085397	6.85E-03	1.04E-03	5.65E-04
2212	257529.1	4085389	6.85E-03	1.04E-03	5.65E-04
2213	257506.5	4085381	6.80E-03	1.04E-03	5.61E-04
2214	257484	4085372	6.70E-03	1.02E-03	5.52E-04
2215	257461.4	4085364	6.53E-03	9.95E-04	5.38E-04
2216	257438.8	4085356	6.30E-03	9.59E-04	5.19E-04
2217	257416.3	4085348	6.00E-03	9.14E-04	4.95E-04
2218	257383.7	4085318	5.69E-03	8.67E-04	4.69E-04
2219	257373.6	4085296	5.63E-03	8.58E-04	4.64E-04
2220	257363.6	4085274	5.46E-03	8.32E-04	4.50E-04
2221	257353.5	4085252	5.17E-03	7.88E-04	4.26E-04
2222	257343.5	4085230	4.78E-03	7.28E-04	3.94E-04
2223	257333.4	4085209	4.33E-03	6.59E-04	3.57E-04
2224	257323.4	4085187	3.85E-03	5.87E-04	3.18E-04
2225	257574.2	4085405	6.81E-03	1.04E-03	5.61E-04
2226	257598.5	4085404	7.00E-03	1.07E-03	5.77E-04
2227	257622.8	4085403	7.17E-03	1.09E-03	5.91E-04
2228	257647.1	4085402	7.30E-03	1.11E-03	6.02E-04
2229	257671.4	4085401	7.41E-03	1.13E-03	6.11E-04
2230	257695.6	4085400	7.48E-03	1.14E-03	6.17E-04
2231	257719.9	4085399	7.50E-03	1.14E-03	6.19E-04
2232	257744.2	4085398	7.54E-03	1.15E-03	6.22E-04
2233	257768.5	4085397	7.56E-03	1.15E-03	6.23E-04
2234	257792.8	4085396	7.56E-03	1.15E-03	6.23E-04
2235	257817	4085395	7.53E-03	1.15E-03	6.21E-04
2236	257841.3	4085394	7.48E-03	1.14E-03	6.17E-04
2237	257865.6	4085392	7.42E-03	1.13E-03	6.11E-04
2238	257889.9	4085391	7.33E-03	1.12E-03	6.04E-04
2239	257914.2	4085390	7.23E-03	1.10E-03	5.96E-04
2240	257938.5	4085389	7.11E-03	1.08E-03	5.86E-04
2241	257962.7	4085388	6.98E-03	1.06E-03	5.75E-04
2242	257987	4085387	6.83E-03	1.04E-03	5.63E-04
2243	258011.3	4085386	6.66E-03	1.02E-03	5.49E-04
2244	258035.6	4085385	6.48E-03	9.88E-04	5.34E-04
2245	258059.9	4085384	6.29E-03	9.57E-04	5.18E-04
2246	258084.1	4085383	6.07E-03	9.25E-04	5.00E-04
2247	258108.4	4085382	5.83E-03	8.89E-04	4.81E-04
2248	258132.7	4085381	5.58E-03	8.50E-04	4.60E-04
2249	258157	4085380	5.30E-03	8.08E-04	4.37E-04

2250	258181.3	4085378	5.01E-03	7.63E-04	4.13E-04
2251	258205.6	4085377	4.71E-03	7.18E-04	3.88E-04
2252	258229.8	4085376	4.41E-03	6.72E-04	3.64E-04
2253	258254.1	4085375	4.12E-03	6.27E-04	3.39E-04
2254	258278.4	4085374	3.83E-03	5.83E-04	3.16E-04
2255	258302.7	4085373	3.54E-03	5.39E-04	2.92E-04
2256	258327	4085372	3.26E-03	4.96E-04	2.68E-04
2257	258351.2	4085371	2.99E-03	4.55E-04	2.46E-04
2258	258375.5	4085370	2.74E-03	4.17E-04	2.26E-04
2259	257554.8	4085447	5.62E-03	8.56E-04	4.63E-04
2260	257533.1	4085439	5.65E-03	8.61E-04	4.66E-04
2261	257511.5	4085432	5.66E-03	8.62E-04	4.66E-04
2262	257489.8	4085424	5.63E-03	8.58E-04	4.64E-04
2263	257468.1	4085416	5.57E-03	8.49E-04	4.59E-04
2264	257446.5	4085408	5.47E-03	8.34E-04	4.51E-04
2265	257424.8	4085400	5.33E-03	8.13E-04	4.40E-04
2266	257403.2	4085392	5.15E-03	7.85E-04	4.25E-04
2267	257381.5	4085384	4.94E-03	7.52E-04	4.07E-04
2268	257350.2	4085355	4.72E-03	7.18E-04	3.89E-04
2269	257340.5	4085334	4.69E-03	7.14E-04	3.86E-04
2270	257330.9	4085313	4.59E-03	7.00E-04	3.78E-04
2271	257321.2	4085292	4.42E-03	6.74E-04	3.65E-04
2272	257311.6	4085271	4.18E-03	6.37E-04	3.44E-04
2273	257302	4085251	3.88E-03	5.90E-04	3.19E-04
2274	257292.3	4085230	3.53E-03	5.38E-04	2.91E-04
2275	257282.7	4085209	3.18E-03	4.85E-04	2.62E-04
2276	257273	4085188	2.84E-03	4.33E-04	2.34E-04
2277	257576.4	4085455	5.56E-03	8.47E-04	4.58E-04
2278	257600.7	4085454	5.68E-03	8.65E-04	4.68E-04
2279	257625	4085453	5.78E-03	8.80E-04	4.76E-04
2280	257649.3	4085452	5.85E-03	8.92E-04	4.82E-04
2281	257673.6	4085451	5.88E-03	8.96E-04	4.85E-04
2282	257697.8	4085450	5.91E-03	9.00E-04	4.87E-04
2283	257722.1	4085449	5.93E-03	9.04E-04	4.89E-04
2284	257746.4	4085448	5.94E-03	9.06E-04	4.90E-04
2285	257770.7	4085447	5.94E-03	9.05E-04	4.90E-04
2286	257795	4085446	5.92E-03	9.02E-04	4.88E-04
2287	257819.3	4085445	5.88E-03	8.96E-04	4.85E-04
2288	257843.5	4085443	5.83E-03	8.89E-04	4.81E-04
2289	257867.8	4085442	5.77E-03	8.79E-04	4.75E-04
2290	257892.1	4085441	5.69E-03	8.67E-04	4.69E-04
2291	257916.4	4085440	5.60E-03	8.53E-04	4.61E-04
2292	257940.7	4085439	5.50E-03	8.37E-04	4.53E-04
2293	257964.9	4085438	5.38E-03	8.20E-04	4.44E-04
2294	257989.2	4085437	5.26E-03	8.01E-04	4.33E-04
2295	258013.5	4085436	5.12E-03	7.80E-04	4.22E-04
2296	258037.8	4085435	4.97E-03	7.58E-04	4.10E-04

2297	258062.1	4085434	4.81E-03	7.33E-04	3.96E-04
2298	258086.4	4085433	4.63E-03	7.06E-04	3.82E-04
2299	258110.6	4085432	4.44E-03	6.77E-04	3.66E-04
2300	258134.9	4085431	4.24E-03	6.46E-04	3.49E-04
2301	258159.2	4085430	4.03E-03	6.14E-04	3.32E-04
2302	258183.5	4085428	3.81E-03	5.81E-04	3.14E-04
2303	258207.8	4085427	3.60E-03	5.49E-04	2.97E-04
2304	258232	4085426	3.39E-03	5.17E-04	2.80E-04
2305	258256.3	4085425	3.19E-03	4.86E-04	2.63E-04
2306	258280.6	4085424	2.98E-03	4.54E-04	2.46E-04
2307	258304.9	4085423	2.78E-03	4.23E-04	2.29E-04
2308	258329.2	4085422	2.58E-03	3.93E-04	2.13E-04
2309	258353.5	4085421	2.39E-03	3.65E-04	1.97E-04
2310	258377.7	4085420	2.22E-03	3.38E-04	1.83E-04
2311	257558.6	4085547	3.93E-03	5.98E-04	3.24E-04
2312	257536.4	4085539	4.00E-03	6.09E-04	3.30E-04
2313	257514.2	4085531	4.04E-03	6.16E-04	3.33E-04
2314	257492	4085523	4.07E-03	6.20E-04	3.35E-04
2315	257469.8	4085515	4.08E-03	6.22E-04	3.36E-04
2316	257447.6	4085507	4.08E-03	6.21E-04	3.36E-04
2317	257425.3	4085498	4.05E-03	6.18E-04	3.34E-04
2318	257403.1	4085490	4.01E-03	6.11E-04	3.31E-04
2319	257380.9	4085482	3.94E-03	6.00E-04	3.25E-04
2320	257358.7	4085474	3.84E-03	5.86E-04	3.17E-04
2321	257336.5	4085466	3.73E-03	5.68E-04	3.07E-04
2322	257314.3	4085458	3.60E-03	5.48E-04	2.97E-04
2323	257282.2	4085428	3.48E-03	5.29E-04	2.86E-04
2324	257272.3	4085407	3.47E-03	5.28E-04	2.86E-04
2325	257262.4	4085385	3.42E-03	5.21E-04	2.82E-04
2326	257252.5	4085364	3.34E-03	5.09E-04	2.75E-04
2327	257242.6	4085342	3.21E-03	4.89E-04	2.65E-04
2328	257232.7	4085321	3.04E-03	4.63E-04	2.51E-04
2329	257222.8	4085299	2.84E-03	4.32E-04	2.34E-04
2330	257212.9	4085278	2.61E-03	3.97E-04	2.15E-04
2331	257203	4085256	2.37E-03	3.61E-04	1.95E-04
2332	257193.1	4085235	2.14E-03	3.26E-04	1.77E-04
2333	257183.2	4085213	1.93E-03	2.94E-04	1.59E-04
2334	257173.3	4085192	1.74E-03	2.65E-04	1.44E-04
2335	257580.9	4085555	3.86E-03	5.88E-04	3.18E-04
2336	257605.1	4085554	3.90E-03	5.94E-04	3.22E-04
2337	257629.4	4085553	3.93E-03	5.99E-04	3.24E-04
2338	257653.7	4085552	3.95E-03	6.02E-04	3.26E-04
2339	257678	4085551	3.96E-03	6.03E-04	3.26E-04
2340	257702.3	4085550	3.96E-03	6.03E-04	3.26E-04
2341	257726.6	4085549	3.94E-03	6.01E-04	3.25E-04
2342	257750.8	4085548	3.93E-03	5.98E-04	3.24E-04
2343	257775.1	4085547	3.91E-03	5.95E-04	3.22E-04

2344	257799.4	4085546	3.88E-03	5.91E-04	3.20E-04
2345	257823.7	4085544	3.84E-03	5.86E-04	3.17E-04
2346	257848	4085543	3.80E-03	5.79E-04	3.13E-04
2347	257872.2	4085542	3.75E-03	5.72E-04	3.09E-04
2348	257896.5	4085541	3.70E-03	5.63E-04	3.05E-04
2349	257920.8	4085540	3.63E-03	5.53E-04	2.99E-04
2350	257945.1	4085539	3.56E-03	5.42E-04	2.93E-04
2351	257969.4	4085538	3.48E-03	5.29E-04	2.86E-04
2352	257993.7	4085537	3.39E-03	5.16E-04	2.79E-04
2353	258017.9	4085536	3.29E-03	5.01E-04	2.71E-04
2354	258042.2	4085535	3.18E-03	4.84E-04	2.62E-04
2355	258066.5	4085534	3.07E-03	4.67E-04	2.53E-04
2356	258090.8	4085533	2.94E-03	4.49E-04	2.43E-04
2357	258115.1	4085532	2.82E-03	4.30E-04	2.32E-04
2358	258139.3	4085530	2.70E-03	4.11E-04	2.22E-04
2359	258163.6	4085529	2.57E-03	3.92E-04	2.12E-04
2360	258187.9	4085528	2.46E-03	3.74E-04	2.02E-04
2361	258212.2	4085527	2.34E-03	3.56E-04	1.93E-04
2362	258236.5	4085526	2.22E-03	3.39E-04	1.83E-04
2363	258260.8	4085525	2.11E-03	3.21E-04	1.74E-04
2364	258285	4085524	1.99E-03	3.03E-04	1.64E-04
2365	258309.3	4085523	1.88E-03	2.86E-04	1.55E-04
2366	258333.6	4085522	1.76E-03	2.69E-04	1.45E-04
2367	258357.9	4085521	1.66E-03	2.53E-04	1.37E-04
2368	258382.2	4085520	1.56E-03	2.38E-04	1.29E-04
2369	257562.7	4085647	2.88E-03	4.39E-04	2.37E-04
2370	257540.2	4085639	2.93E-03	4.47E-04	2.42E-04
2371	257517.6	4085630	2.98E-03	4.54E-04	2.46E-04
2372	257495	4085622	3.02E-03	4.60E-04	2.49E-04
2373	257472.5	4085614	3.05E-03	4.65E-04	2.52E-04
2374	257449.9	4085606	3.08E-03	4.69E-04	2.54E-04
2375	257427.3	4085597	3.10E-03	4.73E-04	2.56E-04
2376	257404.8	4085589	3.11E-03	4.74E-04	2.57E-04
2377	257382.2	4085581	3.11E-03	4.74E-04	2.56E-04
2378	257359.7	4085573	3.09E-03	4.71E-04	2.55E-04
2379	257337.1	4085564	3.06E-03	4.66E-04	2.52E-04
2380	257314.5	4085556	3.01E-03	4.58E-04	2.48E-04
2381	257292	4085548	2.95E-03	4.49E-04	2.43E-04
2382	257269.4	4085540	2.87E-03	4.38E-04	2.37E-04
2383	257246.8	4085531	2.79E-03	4.26E-04	2.30E-04
2384	257214.2	4085501	2.73E-03	4.16E-04	2.25E-04
2385	257204.2	4085480	2.73E-03	4.16E-04	2.25E-04
2386	257194.1	4085458	2.71E-03	4.13E-04	2.23E-04
2387	257184.1	4085436	2.67E-03	4.07E-04	2.20E-04
2388	257174	4085414	2.60E-03	3.96E-04	2.14E-04
2389	257164	4085392	2.50E-03	3.81E-04	2.06E-04
2390	257153.9	4085370	2.37E-03	3.62E-04	1.96E-04

2391	257143.9	4085349	2.22E-03	3.39E-04	1.83E-04
2392	257133.8	4085327	2.06E-03	3.14E-04	1.70E-04
2393	257123.8	4085305	1.89E-03	2.88E-04	1.56E-04
2394	257113.7	4085283	1.72E-03	2.62E-04	1.42E-04
2395	257103.7	4085261	1.56E-03	2.38E-04	1.29E-04
2396	257093.7	4085240	1.42E-03	2.17E-04	1.17E-04
2397	257083.6	4085218	1.30E-03	1.99E-04	1.07E-04
2398	257073.6	4085196	1.20E-03	1.83E-04	9.92E-05
2399	257585.3	4085655	2.82E-03	4.30E-04	2.33E-04
2400	257609.6	4085654	2.84E-03	4.32E-04	2.34E-04
2401	257633.9	4085653	2.84E-03	4.33E-04	2.34E-04
2402	257658.1	4085652	2.84E-03	4.33E-04	2.34E-04
2403	257682.4	4085651	2.84E-03	4.32E-04	2.34E-04
2404	257706.7	4085650	2.82E-03	4.30E-04	2.33E-04
2405	257731	4085649	2.81E-03	4.28E-04	2.31E-04
2406	257755.3	4085648	2.79E-03	4.24E-04	2.30E-04
2407	257779.5	4085647	2.76E-03	4.21E-04	2.28E-04
2408	257803.8	4085645	2.73E-03	4.16E-04	2.25E-04
2409	257828.1	4085644	2.70E-03	4.12E-04	2.23E-04
2410	257852.4	4085643	2.67E-03	4.07E-04	2.20E-04
2411	257876.7	4085642	2.63E-03	4.00E-04	2.17E-04
2412	257901	4085641	2.58E-03	3.93E-04	2.13E-04
2413	257925.2	4085640	2.53E-03	3.86E-04	2.09E-04
2414	257949.5	4085639	2.48E-03	3.77E-04	2.04E-04
2415	257973.8	4085638	2.41E-03	3.68E-04	1.99E-04
2416	257998.1	4085637	2.35E-03	3.58E-04	1.94E-04
2417	258022.4	4085636	2.28E-03	3.47E-04	1.88E-04
2418	258046.6	4085635	2.20E-03	3.35E-04	1.81E-04
2419	258070.9	4085634	2.12E-03	3.23E-04	1.75E-04
2420	258095.2	4085633	2.04E-03	3.11E-04	1.68E-04
2421	258119.5	4085631	1.97E-03	3.00E-04	1.62E-04
2422	258143.8	4085630	1.89E-03	2.88E-04	1.56E-04
2423	258168.1	4085629	1.82E-03	2.77E-04	1.50E-04
2424	258192.3	4085628	1.75E-03	2.66E-04	1.44E-04
2425	258216.6	4085627	1.66E-03	2.53E-04	1.37E-04
2426	258240.9	4085626	1.59E-03	2.42E-04	1.31E-04
2427	258265.2	4085625	1.51E-03	2.31E-04	1.25E-04
2428	258289.5	4085624	1.44E-03	2.19E-04	1.19E-04
2429	258313.7	4085623	1.37E-03	2.09E-04	1.13E-04
2430	258338	4085622	1.30E-03	1.98E-04	1.07E-04
2431	258362.3	4085621	1.23E-03	1.88E-04	1.02E-04
2432	258386.6	4085620	1.18E-03	1.79E-04	9.69E-05
2433	257566.9	4085747	2.20E-03	3.35E-04	1.81E-04
2434	257544.1	4085738	2.24E-03	3.41E-04	1.85E-04
2435	257521.3	4085730	2.28E-03	3.48E-04	1.88E-04
2436	257498.5	4085722	2.32E-03	3.53E-04	1.91E-04
2437	257475.7	4085713	2.35E-03	3.58E-04	1.94E-04

2438	257452.9	4085705	2.38E-03	3.63E-04	1.96E-04
2439	257430.1	4085697	2.41E-03	3.67E-04	1.99E-04
2440	257407.3	4085688	2.43E-03	3.70E-04	2.00E-04
2441	257384.5	4085680	2.45E-03	3.73E-04	2.02E-04
2442	257361.7	4085672	2.46E-03	3.75E-04	2.03E-04
2443	257338.9	4085663	2.47E-03	3.76E-04	2.04E-04
2444	257316.1	4085655	2.47E-03	3.76E-04	2.03E-04
2445	257293.3	4085647	2.46E-03	3.74E-04	2.02E-04
2446	257270.5	4085638	2.43E-03	3.70E-04	2.00E-04
2447	257247.7	4085630	2.39E-03	3.65E-04	1.97E-04
2448	257224.9	4085622	2.35E-03	3.59E-04	1.94E-04
2449	257202.1	4085613	2.31E-03	3.52E-04	1.90E-04
2450	257179.3	4085605	2.26E-03	3.44E-04	1.86E-04
2451	257146.3	4085575	2.23E-03	3.40E-04	1.84E-04
2452	257136.2	4085553	2.24E-03	3.41E-04	1.85E-04
2453	257126	4085531	2.24E-03	3.41E-04	1.84E-04
2454	257115.9	4085509	2.22E-03	3.37E-04	1.83E-04
2455	257105.7	4085487	2.18E-03	3.32E-04	1.79E-04
2456	257095.6	4085464	2.12E-03	3.23E-04	1.75E-04
2457	257085.4	4085442	2.04E-03	3.11E-04	1.68E-04
2458	257075.3	4085420	1.94E-03	2.96E-04	1.60E-04
2459	257065.1	4085398	1.83E-03	2.78E-04	1.51E-04
2460	257055	4085376	1.70E-03	2.59E-04	1.40E-04
2461	257044.8	4085354	1.57E-03	2.39E-04	1.29E-04
2462	257034.7	4085332	1.44E-03	2.20E-04	1.19E-04
2463	257024.5	4085310	1.32E-03	2.01E-04	1.09E-04
2464	257014.3	4085288	1.21E-03	1.84E-04	9.97E-05
2465	257004.2	4085266	1.11E-03	1.70E-04	9.18E-05
2466	256994	4085244	1.03E-03	1.57E-04	8.50E-05
2467	256983.9	4085222	9.63E-04	1.47E-04	7.94E-05
2468	256973.7	4085200	9.07E-04	1.38E-04	7.48E-05
2469	257589.7	4085755	2.15E-03	3.28E-04	1.78E-04
2470	257614	4085754	2.16E-03	3.28E-04	1.78E-04
2471	257638.3	4085753	2.16E-03	3.28E-04	1.78E-04
2472	257662.6	4085752	2.15E-03	3.28E-04	1.77E-04
2473	257686.8	4085751	2.14E-03	3.26E-04	1.77E-04
2474	257711.1	4085750	2.13E-03	3.24E-04	1.75E-04
2475	257735.4	4085749	2.11E-03	3.22E-04	1.74E-04
2476	257759.7	4085747	2.09E-03	3.18E-04	1.72E-04
2477	257784	4085746	2.07E-03	3.15E-04	1.70E-04
2478	257808.2	4085745	2.03E-03	3.10E-04	1.68E-04
2479	257832.5	4085744	2.00E-03	3.04E-04	1.65E-04
2480	257856.8	4085743	1.96E-03	2.99E-04	1.62E-04
2481	257881.1	4085742	1.93E-03	2.94E-04	1.59E-04
2482	257905.4	4085741	1.89E-03	2.88E-04	1.56E-04
2483	257929.7	4085740	1.85E-03	2.82E-04	1.53E-04
2484	257953.9	4085739	1.81E-03	2.75E-04	1.49E-04

2485	257978.2	4085738	1.76E-03	2.68E-04	1.45E-04
2486	258002.5	4085737	1.71E-03	2.60E-04	1.41E-04
2487	258026.8	4085736	1.66E-03	2.53E-04	1.37E-04
2488	258051.1	4085735	1.61E-03	2.45E-04	1.32E-04
2489	258075.3	4085734	1.56E-03	2.37E-04	1.28E-04
2490	258099.6	4085732	1.51E-03	2.30E-04	1.24E-04
2491	258123.9	4085731	1.46E-03	2.23E-04	1.20E-04
2492	258148.2	4085730	1.41E-03	2.15E-04	1.17E-04
2493	258172.5	4085729	1.37E-03	2.08E-04	1.13E-04
2494	258196.8	4085728	1.32E-03	2.01E-04	1.09E-04
2495	258221	4085727	1.27E-03	1.93E-04	1.04E-04
2496	258245.3	4085726	1.22E-03	1.85E-04	1.00E-04
2497	258269.6	4085725	1.17E-03	1.78E-04	9.61E-05
2498	258293.9	4085724	1.12E-03	1.70E-04	9.20E-05
2499	258318.2	4085723	1.07E-03	1.63E-04	8.80E-05
2500	258342.4	4085722	1.02E-03	1.56E-04	8.41E-05
2501	258366.7	4085721	9.75E-04	1.49E-04	8.04E-05
2502	258391	4085720	9.32E-04	1.42E-04	7.68E-05
2503	257572.2	4085847	1.74E-03	2.65E-04	1.43E-04
2504	257550.2	4085839	1.77E-03	2.70E-04	1.46E-04
2505	257528.2	4085831	1.80E-03	2.75E-04	1.49E-04
2506	257506.2	4085823	1.83E-03	2.79E-04	1.51E-04
2507	257484.3	4085815	1.86E-03	2.83E-04	1.53E-04
2508	257462.3	4085807	1.89E-03	2.87E-04	1.55E-04
2509	257440.3	4085799	1.91E-03	2.91E-04	1.57E-04
2510	257418.3	4085791	1.93E-03	2.94E-04	1.59E-04
2511	257396.4	4085783	1.95E-03	2.98E-04	1.61E-04
2512	257374.4	4085775	1.97E-03	3.01E-04	1.63E-04
2513	257352.4	4085767	1.99E-03	3.03E-04	1.64E-04
2514	257330.4	4085759	2.01E-03	3.06E-04	1.65E-04
2515	257308.5	4085751	2.02E-03	3.08E-04	1.66E-04
2516	257286.5	4085743	2.02E-03	3.08E-04	1.67E-04
2517	257264.5	4085735	2.02E-03	3.08E-04	1.67E-04
2518	257242.5	4085726	2.01E-03	3.07E-04	1.66E-04
2519	257220.6	4085718	2.00E-03	3.05E-04	1.65E-04
2520	257198.6	4085710	1.98E-03	3.02E-04	1.64E-04
2521	257176.6	4085702	1.96E-03	2.99E-04	1.62E-04
2522	257154.6	4085694	1.94E-03	2.95E-04	1.60E-04
2523	257132.7	4085686	1.91E-03	2.91E-04	1.58E-04
2524	257110.7	4085678	1.88E-03	2.87E-04	1.55E-04
2525	257078.9	4085649	1.87E-03	2.86E-04	1.55E-04
2526	257069.1	4085628	1.89E-03	2.88E-04	1.56E-04
2527	257059.4	4085607	1.89E-03	2.89E-04	1.56E-04
2528	257049.6	4085585	1.89E-03	2.88E-04	1.56E-04
2529	257039.8	4085564	1.87E-03	2.85E-04	1.54E-04
2530	257030	4085543	1.84E-03	2.81E-04	1.52E-04
2531	257020.2	4085522	1.80E-03	2.74E-04	1.48E-04

2532	257010.4	4085500	1.74E-03	2.66E-04	1.44E-04
2533	257000.6	4085479	1.67E-03	2.55E-04	1.38E-04
2534	256990.9	4085458	1.59E-03	2.42E-04	1.31E-04
2535	256981.1	4085437	1.50E-03	2.29E-04	1.24E-04
2536	256971.3	4085415	1.40E-03	2.14E-04	1.16E-04
2537	256961.5	4085394	1.30E-03	1.99E-04	1.07E-04
2538	256951.7	4085373	1.21E-03	1.84E-04	9.95E-05
2539	256941.9	4085352	1.11E-03	1.70E-04	9.19E-05
2540	256932.1	4085330	1.03E-03	1.57E-04	8.50E-05
2541	256922.4	4085309	9.56E-04	1.46E-04	7.88E-05
2542	256912.6	4085288	8.93E-04	1.36E-04	7.36E-05
2543	256902.8	4085267	8.39E-04	1.28E-04	6.91E-05
2544	256893	4085245	7.94E-04	1.21E-04	6.54E-05
2545	256883.2	4085224	7.57E-04	1.15E-04	6.24E-05
2546	256873.4	4085203	7.25E-04	1.10E-04	5.98E-05
2547	257594.1	4085855	1.71E-03	2.60E-04	1.41E-04
2548	257618.4	4085854	1.71E-03	2.60E-04	1.41E-04
2549	257642.7	4085853	1.70E-03	2.59E-04	1.40E-04
2550	257667	4085852	1.69E-03	2.58E-04	1.40E-04
2551	257691.3	4085851	1.68E-03	2.57E-04	1.39E-04
2552	257715.5	4085850	1.67E-03	2.54E-04	1.38E-04
2553	257739.8	4085848	1.65E-03	2.52E-04	1.36E-04
2554	257764.1	4085847	1.62E-03	2.47E-04	1.34E-04
2555	257788.4	4085846	1.60E-03	2.44E-04	1.32E-04
2556	257812.7	4085845	1.57E-03	2.39E-04	1.30E-04
2557	257837	4085844	1.54E-03	2.35E-04	1.27E-04
2558	257861.2	4085843	1.51E-03	2.30E-04	1.25E-04
2559	257885.5	4085842	1.48E-03	2.26E-04	1.22E-04
2560	257909.8	4085841	1.45E-03	2.21E-04	1.19E-04
2561	257934.1	4085840	1.41E-03	2.15E-04	1.17E-04
2562	257958.4	4085839	1.38E-03	2.10E-04	1.14E-04
2563	257982.6	4085838	1.35E-03	2.05E-04	1.11E-04
2564	258006.9	4085837	1.31E-03	2.00E-04	1.08E-04
2565	258031.2	4085836	1.28E-03	1.95E-04	1.06E-04
2566	258055.5	4085834	1.25E-03	1.90E-04	1.03E-04
2567	258079.8	4085833	1.22E-03	1.85E-04	1.00E-04
2568	258104.1	4085832	1.18E-03	1.80E-04	9.76E-05
2569	258128.3	4085831	1.15E-03	1.75E-04	9.48E-05
2570	258152.6	4085830	1.12E-03	1.70E-04	9.20E-05
2571	258176.9	4085829	1.08E-03	1.65E-04	8.91E-05
2572	258201.2	4085828	1.05E-03	1.59E-04	8.62E-05
2573	258225.5	4085827	1.01E-03	1.54E-04	8.32E-05
2574	258249.7	4085826	9.73E-04	1.48E-04	8.02E-05
2575	258274	4085825	9.38E-04	1.43E-04	7.73E-05
2576	258298.3	4085824	9.03E-04	1.38E-04	7.44E-05
2577	258322.6	4085823	8.69E-04	1.32E-04	7.16E-05
2578	258346.9	4085822	8.36E-04	1.27E-04	6.89E-05

2579	258371.2	4085821	8.03E-04	1.22E-04	6.62E-05
2580	258395.4	4085819	7.72E-04	1.18E-04	6.36E-05
2581	257580.6	4086047	1.18E-03	1.80E-04	9.75E-05
2582	257558.2	4086038	1.21E-03	1.84E-04	9.95E-05
2583	257535.8	4086030	1.23E-03	1.88E-04	1.01E-04
2584	257513.4	4086022	1.25E-03	1.91E-04	1.03E-04
2585	257490.9	4086014	1.27E-03	1.93E-04	1.05E-04
2586	257468.5	4086006	1.29E-03	1.96E-04	1.06E-04
2587	257446.1	4085997	1.30E-03	1.99E-04	1.08E-04
2588	257423.7	4085989	1.32E-03	2.01E-04	1.09E-04
2589	257401.3	4085981	1.34E-03	2.03E-04	1.10E-04
2590	257378.9	4085973	1.35E-03	2.06E-04	1.11E-04
2591	257356.5	4085965	1.36E-03	2.08E-04	1.13E-04
2592	257334.1	4085956	1.38E-03	2.10E-04	1.14E-04
2593	257311.7	4085948	1.39E-03	2.12E-04	1.15E-04
2594	257289.3	4085940	1.41E-03	2.15E-04	1.16E-04
2595	257266.9	4085932	1.42E-03	2.17E-04	1.17E-04
2596	257244.5	4085924	1.44E-03	2.19E-04	1.18E-04
2597	257222.1	4085916	1.45E-03	2.20E-04	1.19E-04
2598	257199.6	4085907	1.45E-03	2.21E-04	1.20E-04
2599	257177.2	4085899	1.46E-03	2.22E-04	1.20E-04
2600	257154.8	4085891	1.45E-03	2.22E-04	1.20E-04
2601	257132.4	4085883	1.45E-03	2.21E-04	1.19E-04
2602	257110	4085875	1.44E-03	2.20E-04	1.19E-04
2603	257087.6	4085866	1.44E-03	2.19E-04	1.18E-04
2604	257065.2	4085858	1.43E-03	2.17E-04	1.18E-04
2605	257042.8	4085850	1.42E-03	2.16E-04	1.17E-04
2606	257020.4	4085842	1.41E-03	2.15E-04	1.16E-04
2607	256998	4085834	1.40E-03	2.14E-04	1.16E-04
2608	256975.6	4085826	1.39E-03	2.12E-04	1.15E-04
2609	256943.2	4085796	1.40E-03	2.14E-04	1.16E-04
2610	256933.2	4085774	1.42E-03	2.16E-04	1.17E-04
2611	256923.2	4085752	1.44E-03	2.19E-04	1.18E-04
2612	256913.2	4085731	1.44E-03	2.20E-04	1.19E-04
2613	256903.3	4085709	1.45E-03	2.20E-04	1.19E-04
2614	256893.3	4085687	1.44E-03	2.19E-04	1.19E-04
2615	256883.3	4085666	1.42E-03	2.17E-04	1.17E-04
2616	256873.3	4085644	1.40E-03	2.14E-04	1.16E-04
2617	256863.4	4085622	1.37E-03	2.09E-04	1.13E-04
2618	256853.4	4085601	1.33E-03	2.02E-04	1.10E-04
2619	256843.4	4085579	1.28E-03	1.95E-04	1.06E-04
2620	256833.4	4085557	1.22E-03	1.87E-04	1.01E-04
2621	256823.4	4085536	1.16E-03	1.77E-04	9.58E-05
2622	256813.5	4085514	1.10E-03	1.67E-04	9.04E-05
2623	256803.5	4085492	1.03E-03	1.57E-04	8.47E-05
2624	256793.5	4085471	9.59E-04	1.46E-04	7.91E-05
2625	256783.5	4085449	8.93E-04	1.36E-04	7.36E-05

2626	256773.5	4085427	8.31E-04	1.27E-04	6.85E-05
2627	256763.6	4085406	7.75E-04	1.18E-04	6.39E-05
2628	256753.6	4085384	7.26E-04	1.11E-04	5.98E-05
2629	256743.6	4085362	6.83E-04	1.04E-04	5.63E-05
2630	256733.6	4085341	6.48E-04	9.87E-05	5.34E-05
2631	256723.7	4085319	6.17E-04	9.41E-05	5.09E-05
2632	256713.7	4085297	5.92E-04	9.02E-05	4.88E-05
2633	256703.7	4085276	5.70E-04	8.68E-05	4.70E-05
2634	256693.7	4085254	5.51E-04	8.39E-05	4.54E-05
2635	256683.7	4085232	5.33E-04	8.13E-05	4.40E-05
2636	256673.8	4085211	5.18E-04	7.90E-05	4.27E-05
2637	257603	4086055	1.16E-03	1.77E-04	9.56E-05
2638	257627.3	4086054	1.15E-03	1.76E-04	9.50E-05
2639	257651.6	4086053	1.14E-03	1.74E-04	9.43E-05
2640	257675.8	4086051	1.13E-03	1.73E-04	9.34E-05
2641	257700.1	4086050	1.12E-03	1.71E-04	9.24E-05
2642	257724.4	4086049	1.11E-03	1.69E-04	9.12E-05
2643	257748.7	4086048	1.09E-03	1.66E-04	8.98E-05
2644	257773	4086047	1.07E-03	1.63E-04	8.82E-05
2645	257797.2	4086046	1.05E-03	1.60E-04	8.65E-05
2646	257821.5	4086045	1.03E-03	1.56E-04	8.47E-05
2647	257845.8	4086044	1.00E-03	1.53E-04	8.28E-05
2648	257870.1	4086043	9.81E-04	1.49E-04	8.09E-05
2649	257894.4	4086042	9.59E-04	1.46E-04	7.90E-05
2650	257918.7	4086041	9.38E-04	1.43E-04	7.73E-05
2651	257942.9	4086040	9.18E-04	1.40E-04	7.57E-05
2652	257967.2	4086039	9.01E-04	1.37E-04	7.42E-05
2653	257991.5	4086038	8.84E-04	1.35E-04	7.29E-05
2654	258015.8	4086036	8.69E-04	1.32E-04	7.16E-05
2655	258040.1	4086035	8.53E-04	1.30E-04	7.03E-05
2656	258064.3	4086034	8.38E-04	1.28E-04	6.91E-05
2657	258088.6	4086033	8.21E-04	1.25E-04	6.77E-05
2658	258112.9	4086032	8.04E-04	1.22E-04	6.62E-05
2659	258137.2	4086031	7.85E-04	1.20E-04	6.47E-05
2660	258161.5	4086030	7.65E-04	1.17E-04	6.31E-05
2661	258185.8	4086029	7.44E-04	1.13E-04	6.14E-05
2662	258210	4086028	7.24E-04	1.10E-04	5.97E-05
2663	258234.3	4086027	7.03E-04	1.07E-04	5.80E-05
2664	258258.6	4086026	6.83E-04	1.04E-04	5.63E-05
2665	258282.9	4086025	6.63E-04	1.01E-04	5.46E-05
2666	258307.2	4086024	6.43E-04	9.80E-05	5.30E-05
2667	258331.4	4086022	6.24E-04	9.50E-05	5.14E-05
2668	258355.7	4086021	6.05E-04	9.22E-05	4.99E-05
2669	258380	4086020	5.86E-04	8.93E-05	4.83E-05
2670	258404.3	4086019	5.69E-04	8.66E-05	4.69E-05
2671	257589.1	4086246	8.66E-04	1.32E-04	7.13E-05
2672	257566.5	4086238	8.84E-04	1.35E-04	7.28E-05

2673	257543.8	4086230	9.01E-04	1.37E-04	7.42E-05
2674	257521.1	4086221	9.17E-04	1.40E-04	7.56E-05
2675	257498.4	4086213	9.33E-04	1.42E-04	7.69E-05
2676	257475.7	4086205	9.47E-04	1.44E-04	7.81E-05
2677	257453	4086196	9.61E-04	1.46E-04	7.92E-05
2678	257430.3	4086188	9.74E-04	1.48E-04	8.03E-05
2679	257407.6	4086180	9.87E-04	1.50E-04	8.13E-05
2680	257384.9	4086172	9.98E-04	1.52E-04	8.23E-05
2681	257362.2	4086163	1.01E-03	1.54E-04	8.31E-05
2682	257339.5	4086155	1.02E-03	1.55E-04	8.40E-05
2683	257316.8	4086147	1.03E-03	1.57E-04	8.50E-05
2684	257294.1	4086138	1.04E-03	1.59E-04	8.59E-05
2685	257271.4	4086130	1.05E-03	1.60E-04	8.67E-05
2686	257248.8	4086122	1.06E-03	1.62E-04	8.76E-05
2687	257226.1	4086114	1.07E-03	1.64E-04	8.85E-05
2688	257203.4	4086105	1.08E-03	1.65E-04	8.93E-05
2689	257180.7	4086097	1.09E-03	1.67E-04	9.01E-05
2690	257158	4086089	1.10E-03	1.68E-04	9.09E-05
2691	257135.3	4086080	1.11E-03	1.69E-04	9.14E-05
2692	257112.6	4086072	1.11E-03	1.70E-04	9.18E-05
2693	257089.9	4086064	1.12E-03	1.70E-04	9.20E-05
2694	257067.2	4086056	1.12E-03	1.70E-04	9.21E-05
2695	257044.5	4086047	1.12E-03	1.70E-04	9.20E-05
2696	257021.8	4086039	1.11E-03	1.70E-04	9.18E-05
2697	256999.1	4086031	1.11E-03	1.69E-04	9.16E-05
2698	256976.4	4086022	1.11E-03	1.69E-04	9.14E-05
2699	256953.8	4086014	1.11E-03	1.68E-04	9.11E-05
2700	256931.1	4086006	1.10E-03	1.68E-04	9.10E-05
2701	256908.4	4085998	1.10E-03	1.68E-04	9.08E-05
2702	256885.7	4085989	1.10E-03	1.67E-04	9.06E-05
2703	256863	4085981	1.10E-03	1.67E-04	9.04E-05
2704	256840.3	4085973	1.09E-03	1.67E-04	9.02E-05
2705	256807.5	4085942	1.11E-03	1.69E-04	9.15E-05
2706	256797.4	4085920	1.13E-03	1.72E-04	9.28E-05
2707	256787.3	4085899	1.14E-03	1.74E-04	9.40E-05
2708	256777.2	4085877	1.15E-03	1.76E-04	9.50E-05
2709	256767.1	4085855	1.16E-03	1.77E-04	9.58E-05
2710	256757	4085833	1.17E-03	1.78E-04	9.61E-05
2711	256746.9	4085811	1.17E-03	1.78E-04	9.61E-05
2712	256736.8	4085789	1.16E-03	1.77E-04	9.56E-05
2713	256726.7	4085767	1.15E-03	1.75E-04	9.46E-05
2714	256716.5	4085745	1.13E-03	1.72E-04	9.31E-05
2715	256706.4	4085723	1.11E-03	1.69E-04	9.12E-05
2716	256696.3	4085701	1.08E-03	1.64E-04	8.89E-05
2717	256686.2	4085679	1.04E-03	1.59E-04	8.60E-05
2718	256676.1	4085657	1.00E-03	1.53E-04	8.27E-05
2719	256666	4085635	9.59E-04	1.46E-04	7.90E-05

2720	256655.9	4085613	9.11E-04	1.39E-04	7.51E-05
2721	256645.8	4085591	8.60E-04	1.31E-04	7.09E-05
2722	256635.7	4085569	8.09E-04	1.23E-04	6.67E-05
2723	256625.6	4085547	7.58E-04	1.15E-04	6.25E-05
2724	256615.5	4085526	7.09E-04	1.08E-04	5.84E-05
2725	256605.4	4085504	6.63E-04	1.01E-04	5.47E-05
2726	256595.3	4085482	6.22E-04	9.48E-05	5.13E-05
2727	256585.2	4085460	5.86E-04	8.93E-05	4.83E-05
2728	256575.1	4085438	5.55E-04	8.45E-05	4.57E-05
2729	256565	4085416	5.29E-04	8.05E-05	4.36E-05
2730	256554.9	4085394	5.07E-04	7.72E-05	4.18E-05
2731	256544.8	4085372	4.88E-04	7.44E-05	4.02E-05
2732	256534.7	4085350	4.72E-04	7.19E-05	3.89E-05
2733	256524.5	4085328	4.58E-04	6.98E-05	3.78E-05
2734	256514.4	4085306	4.45E-04	6.78E-05	3.67E-05
2735	256504.3	4085284	4.33E-04	6.60E-05	3.57E-05
2736	256494.2	4085262	4.22E-04	6.43E-05	3.48E-05
2737	256484.1	4085240	4.12E-04	6.28E-05	3.40E-05
2738	256474	4085218	4.03E-04	6.14E-05	3.32E-05
2739	257611.8	4086255	8.46E-04	1.29E-04	6.98E-05
2740	257636.1	4086253	8.37E-04	1.28E-04	6.90E-05
2741	257660.4	4086252	8.27E-04	1.26E-04	6.81E-05
2742	257684.7	4086251	8.15E-04	1.24E-04	6.72E-05
2743	257709	4086250	8.03E-04	1.22E-04	6.62E-05
2744	257733.2	4086249	7.90E-04	1.20E-04	6.51E-05
2745	257757.5	4086248	7.77E-04	1.18E-04	6.41E-05
2746	257781.8	4086247	7.64E-04	1.16E-04	6.30E-05
2747	257806.1	4086246	7.50E-04	1.14E-04	6.18E-05
2748	257830.4	4086245	7.36E-04	1.12E-04	6.07E-05
2749	257854.7	4086244	7.23E-04	1.10E-04	5.96E-05
2750	257878.9	4086243	7.10E-04	1.08E-04	5.85E-05
2751	257903.2	4086242	6.97E-04	1.06E-04	5.74E-05
2752	257927.5	4086241	6.85E-04	1.04E-04	5.64E-05
2753	257951.8	4086239	6.73E-04	1.02E-04	5.55E-05
2754	257976.1	4086238	6.61E-04	1.01E-04	5.45E-05
2755	258000.3	4086237	6.49E-04	9.89E-05	5.35E-05
2756	258024.6	4086236	6.37E-04	9.71E-05	5.25E-05
2757	258048.9	4086235	6.25E-04	9.53E-05	5.15E-05
2758	258073.2	4086234	6.13E-04	9.35E-05	5.06E-05
2759	258097.5	4086233	6.02E-04	9.17E-05	4.96E-05
2760	258121.8	4086232	5.91E-04	9.01E-05	4.87E-05
2761	258146	4086231	5.80E-04	8.84E-05	4.78E-05
2762	258170.3	4086230	5.68E-04	8.66E-05	4.68E-05
2763	258194.6	4086229	5.56E-04	8.48E-05	4.59E-05
2764	258218.9	4086228	5.45E-04	8.30E-05	4.49E-05
2765	258243.2	4086227	5.33E-04	8.12E-05	4.39E-05
2766	258267.4	4086225	5.21E-04	7.94E-05	4.29E-05

2767	258291.7	4086224	5.09E-04	7.75E-05	4.19E-05
2768	258316	4086223	4.96E-04	7.56E-05	4.09E-05
2769	258340.3	4086222	4.84E-04	7.38E-05	3.99E-05
2770	258364.6	4086221	4.72E-04	7.19E-05	3.89E-05
2771	258388.9	4086220	4.60E-04	7.01E-05	3.79E-05
2772	258413.1	4086219	4.48E-04	6.82E-05	3.69E-05
2773	257598.3	4086446	6.60E-04	1.01E-04	5.44E-05
2774	257576	4086438	6.75E-04	1.03E-04	5.57E-05
2775	257553.6	4086430	6.90E-04	1.05E-04	5.68E-05
2776	257531.3	4086422	7.04E-04	1.07E-04	5.80E-05
2777	257508.9	4086414	7.17E-04	1.09E-04	5.91E-05
2778	257486.6	4086405	7.31E-04	1.11E-04	6.02E-05
2779	257464.2	4086397	7.43E-04	1.13E-04	6.12E-05
2780	257441.9	4086389	7.55E-04	1.15E-04	6.22E-05
2781	257419.5	4086381	7.66E-04	1.17E-04	6.31E-05
2782	257397.2	4086373	7.76E-04	1.18E-04	6.40E-05
2783	257374.9	4086365	7.86E-04	1.20E-04	6.48E-05
2784	257352.5	4086356	7.95E-04	1.21E-04	6.55E-05
2785	257330.2	4086348	8.03E-04	1.22E-04	6.62E-05
2786	257307.8	4086340	8.11E-04	1.24E-04	6.69E-05
2787	257285.5	4086332	8.19E-04	1.25E-04	6.75E-05
2788	257263.1	4086324	8.27E-04	1.26E-04	6.81E-05
2789	257240.8	4086316	8.34E-04	1.27E-04	6.88E-05
2790	257218.4	4086307	8.42E-04	1.28E-04	6.94E-05
2791	257196.1	4086299	8.49E-04	1.29E-04	7.00E-05
2792	257173.7	4086291	8.57E-04	1.31E-04	7.06E-05
2793	257151.4	4086283	8.67E-04	1.32E-04	7.14E-05
2794	257129	4086275	8.75E-04	1.33E-04	7.21E-05
2795	257106.7	4086267	8.82E-04	1.34E-04	7.27E-05
2796	257084.3	4086258	8.88E-04	1.35E-04	7.32E-05
2797	257062	4086250	8.93E-04	1.36E-04	7.36E-05
2798	257039.6	4086242	8.96E-04	1.37E-04	7.39E-05
2799	257017.3	4086234	8.99E-04	1.37E-04	7.41E-05
2800	256994.9	4086226	9.00E-04	1.37E-04	7.42E-05
2801	256972.6	4086218	8.98E-04	1.37E-04	7.40E-05
2802	256950.2	4086209	8.96E-04	1.36E-04	7.38E-05
2803	256927.9	4086201	8.95E-04	1.36E-04	7.37E-05
2804	256905.5	4086193	8.94E-04	1.36E-04	7.37E-05
2805	256883.2	4086185	8.93E-04	1.36E-04	7.36E-05
2806	256860.8	4086177	8.92E-04	1.36E-04	7.35E-05
2807	256838.5	4086169	8.92E-04	1.36E-04	7.35E-05
2808	256816.1	4086160	8.93E-04	1.36E-04	7.36E-05
2809	256793.8	4086152	8.93E-04	1.36E-04	7.36E-05
2810	256771.4	4086144	8.94E-04	1.36E-04	7.37E-05
2811	256749.1	4086136	8.94E-04	1.36E-04	7.37E-05
2812	256726.7	4086128	8.95E-04	1.36E-04	7.37E-05
2813	256704.4	4086120	8.95E-04	1.36E-04	7.38E-05

2814	256672.1	4086090	9.10E-04	1.39E-04	7.50E-05
2815	256662.1	4086068	9.25E-04	1.41E-04	7.62E-05
2816	256652.2	4086047	9.40E-04	1.43E-04	7.75E-05
2817	256642.2	4086025	9.52E-04	1.45E-04	7.85E-05
2818	256632.3	4086003	9.62E-04	1.47E-04	7.93E-05
2819	256622.3	4085982	9.71E-04	1.48E-04	8.00E-05
2820	256612.4	4085960	9.77E-04	1.49E-04	8.05E-05
2821	256602.4	4085939	9.80E-04	1.49E-04	8.08E-05
2822	256592.5	4085917	9.79E-04	1.49E-04	8.07E-05
2823	256582.5	4085895	9.75E-04	1.49E-04	8.04E-05
2824	256572.6	4085874	9.67E-04	1.47E-04	7.97E-05
2825	256562.6	4085852	9.54E-04	1.45E-04	7.87E-05
2826	256552.7	4085830	9.38E-04	1.43E-04	7.73E-05
2827	256542.7	4085809	9.18E-04	1.40E-04	7.57E-05
2828	256532.8	4085787	8.94E-04	1.36E-04	7.37E-05
2829	256522.8	4085766	8.66E-04	1.32E-04	7.14E-05
2830	256512.9	4085744	8.35E-04	1.27E-04	6.88E-05
2831	256502.9	4085722	8.00E-04	1.22E-04	6.60E-05
2832	256493	4085701	7.65E-04	1.17E-04	6.31E-05
2833	256483	4085679	7.27E-04	1.11E-04	5.99E-05
2834	256473	4085658	6.87E-04	1.05E-04	5.67E-05
2835	256463.1	4085636	6.48E-04	9.87E-05	5.34E-05
2836	256453.1	4085614	6.10E-04	9.29E-05	5.03E-05
2837	256443.2	4085593	5.74E-04	8.74E-05	4.73E-05
2838	256433.2	4085571	5.40E-04	8.23E-05	4.45E-05
2839	256423.3	4085550	5.10E-04	7.77E-05	4.21E-05
2840	256413.3	4085528	4.84E-04	7.37E-05	3.99E-05
2841	256403.4	4085506	4.61E-04	7.03E-05	3.80E-05
2842	256393.4	4085485	4.42E-04	6.74E-05	3.65E-05
2843	256383.5	4085463	4.26E-04	6.49E-05	3.51E-05
2844	256373.5	4085441	4.13E-04	6.29E-05	3.40E-05
2845	256363.6	4085420	4.01E-04	6.12E-05	3.31E-05
2846	256353.6	4085398	3.91E-04	5.96E-05	3.23E-05
2847	256343.7	4085377	3.82E-04	5.82E-05	3.15E-05
2848	256333.7	4085355	3.74E-04	5.69E-05	3.08E-05
2849	256323.8	4085333	3.65E-04	5.56E-05	3.01E-05
2850	256313.8	4085312	3.57E-04	5.44E-05	2.94E-05
2851	256303.9	4085290	3.50E-04	5.33E-05	2.88E-05
2852	256293.9	4085269	3.42E-04	5.21E-05	2.82E-05
2853	256284	4085247	3.36E-04	5.11E-05	2.77E-05
2854	256274	4085225	3.30E-04	5.02E-05	2.72E-05
2855	257620.7	4086454	6.45E-04	9.83E-05	5.32E-05
2856	257645	4086453	6.37E-04	9.71E-05	5.25E-05
2857	257669.2	4086452	6.29E-04	9.59E-05	5.19E-05
2858	257693.5	4086451	6.21E-04	9.46E-05	5.12E-05
2859	257717.8	4086450	6.12E-04	9.33E-05	5.05E-05
2860	257742.1	4086449	6.04E-04	9.20E-05	4.98E-05

2861	257766.4	4086448	5.97E-04	9.09E-05	4.92E-05
2862	257790.7	4086447	5.89E-04	8.98E-05	4.86E-05
2863	257814.9	4086446	5.82E-04	8.87E-05	4.80E-05
2864	257839.2	4086445	5.75E-04	8.76E-05	4.74E-05
2865	257863.5	4086444	5.68E-04	8.65E-05	4.68E-05
2866	257887.8	4086443	5.60E-04	8.53E-05	4.61E-05
2867	257912.1	4086441	5.52E-04	8.40E-05	4.55E-05
2868	257936.3	4086440	5.43E-04	8.27E-05	4.47E-05
2869	257960.6	4086439	5.34E-04	8.13E-05	4.40E-05
2870	257984.9	4086438	5.24E-04	7.98E-05	4.32E-05
2871	258009.2	4086437	5.14E-04	7.82E-05	4.23E-05
2872	258033.5	4086436	5.03E-04	7.67E-05	4.15E-05
2873	258057.8	4086435	4.93E-04	7.51E-05	4.06E-05
2874	258082	4086434	4.82E-04	7.35E-05	3.98E-05
2875	258106.3	4086433	4.72E-04	7.20E-05	3.89E-05
2876	258130.6	4086432	4.63E-04	7.05E-05	3.82E-05
2877	258154.9	4086431	4.54E-04	6.92E-05	3.74E-05
2878	258179.2	4086430	4.46E-04	6.79E-05	3.67E-05
2879	258203.4	4086429	4.38E-04	6.67E-05	3.61E-05
2880	258227.7	4086427	4.30E-04	6.56E-05	3.55E-05
2881	258252	4086426	4.23E-04	6.45E-05	3.49E-05
2882	258276.3	4086425	4.16E-04	6.34E-05	3.43E-05
2883	258300.6	4086424	4.09E-04	6.23E-05	3.37E-05
2884	258324.9	4086423	4.01E-04	6.11E-05	3.31E-05
2885	258349.1	4086422	3.93E-04	5.99E-05	3.24E-05
2886	258373.4	4086421	3.86E-04	5.87E-05	3.18E-05
2887	258397.7	4086420	3.78E-04	5.75E-05	3.11E-05
2888	258422	4086419	3.70E-04	5.63E-05	3.05E-05
2889	257607	4086646	5.25E-04	8.01E-05	4.33E-05
2890	257584.4	4086638	5.35E-04	8.16E-05	4.41E-05
2891	257561.8	4086629	5.46E-04	8.32E-05	4.50E-05
2892	257539.3	4086621	5.57E-04	8.48E-05	4.59E-05
2893	257516.7	4086613	5.68E-04	8.65E-05	4.68E-05
2894	257494.2	4086605	5.79E-04	8.82E-05	4.77E-05
2895	257471.6	4086596	5.90E-04	8.99E-05	4.87E-05
2896	257449	4086588	6.01E-04	9.16E-05	4.96E-05
2897	257426.5	4086580	6.12E-04	9.32E-05	5.04E-05
2898	257403.9	4086572	6.22E-04	9.48E-05	5.13E-05
2899	257381.3	4086563	6.32E-04	9.63E-05	5.21E-05
2900	257358.8	4086555	6.41E-04	9.76E-05	5.28E-05
2901	257336.2	4086547	6.49E-04	9.88E-05	5.35E-05
2902	257313.6	4086539	6.56E-04	1.00E-04	5.41E-05
2903	257291.1	4086530	6.63E-04	1.01E-04	5.47E-05
2904	257268.5	4086522	6.70E-04	1.02E-04	5.52E-05
2905	257246	4086514	6.77E-04	1.03E-04	5.58E-05
2906	257223.4	4086506	6.84E-04	1.04E-04	5.64E-05
2907	257200.8	4086498	6.91E-04	1.05E-04	5.70E-05

2908	257178.3	4086489	6.98E-04	1.06E-04	5.75E-05
2909	257155.7	4086481	7.04E-04	1.07E-04	5.81E-05
2910	257133.1	4086473	7.11E-04	1.08E-04	5.86E-05
2911	257110.6	4086465	7.17E-04	1.09E-04	5.91E-05
2912	257088	4086456	7.24E-04	1.10E-04	5.97E-05
2913	257065.4	4086448	7.30E-04	1.11E-04	6.01E-05
2914	257042.9	4086440	7.35E-04	1.12E-04	6.06E-05
2915	257020.3	4086432	7.40E-04	1.13E-04	6.10E-05
2916	256997.8	4086423	7.44E-04	1.13E-04	6.13E-05
2917	256975.2	4086415	7.47E-04	1.14E-04	6.16E-05
2918	256952.6	4086407	7.49E-04	1.14E-04	6.17E-05
2919	256930.1	4086399	7.50E-04	1.14E-04	6.18E-05
2920	256907.5	4086390	7.50E-04	1.14E-04	6.18E-05
2921	256884.9	4086382	7.50E-04	1.14E-04	6.18E-05
2922	256862.4	4086374	7.49E-04	1.14E-04	6.17E-05
2923	256839.8	4086366	7.48E-04	1.14E-04	6.16E-05
2924	256817.2	4086357	7.47E-04	1.14E-04	6.15E-05
2925	256794.7	4086349	7.46E-04	1.14E-04	6.15E-05
2926	256772.1	4086341	7.46E-04	1.14E-04	6.15E-05
2927	256749.6	4086333	7.46E-04	1.14E-04	6.15E-05
2928	256727	4086324	7.47E-04	1.14E-04	6.16E-05
2929	256704.4	4086316	7.48E-04	1.14E-04	6.17E-05
2930	256681.9	4086308	7.50E-04	1.14E-04	6.18E-05
2931	256659.3	4086300	7.51E-04	1.14E-04	6.19E-05
2932	256636.7	4086291	7.53E-04	1.15E-04	6.21E-05
2933	256614.2	4086283	7.56E-04	1.15E-04	6.23E-05
2934	256591.6	4086275	7.58E-04	1.16E-04	6.25E-05
2935	256569	4086267	7.60E-04	1.16E-04	6.26E-05
2936	256536.4	4086237	7.73E-04	1.18E-04	6.37E-05
2937	256526.4	4086215	7.85E-04	1.20E-04	6.47E-05
2938	256516.3	4086193	7.96E-04	1.21E-04	6.57E-05
2939	256506.3	4086171	8.07E-04	1.23E-04	6.66E-05
2940	256496.2	4086149	8.18E-04	1.25E-04	6.74E-05
2941	256486.2	4086128	8.27E-04	1.26E-04	6.81E-05
2942	256476.1	4086106	8.34E-04	1.27E-04	6.88E-05
2943	256466.1	4086084	8.40E-04	1.28E-04	6.93E-05
2944	256456.1	4086062	8.44E-04	1.29E-04	6.96E-05
2945	256446	4086040	8.46E-04	1.29E-04	6.97E-05
2946	256436	4086018	8.45E-04	1.29E-04	6.96E-05
2947	256425.9	4085997	8.41E-04	1.28E-04	6.93E-05
2948	256415.9	4085975	8.35E-04	1.27E-04	6.88E-05
2949	256405.8	4085953	8.25E-04	1.26E-04	6.80E-05
2950	256395.8	4085931	8.13E-04	1.24E-04	6.70E-05
2951	256385.7	4085909	7.97E-04	1.21E-04	6.57E-05
2952	256375.7	4085888	7.79E-04	1.19E-04	6.42E-05
2953	256365.6	4085866	7.59E-04	1.16E-04	6.26E-05
2954	256355.6	4085844	7.34E-04	1.12E-04	6.05E-05

2955	256345.5	4085822	7.07E-04	1.08E-04	5.83E-05
2956	256335.5	4085800	6.78E-04	1.03E-04	5.59E-05
2957	256325.4	4085778	6.47E-04	9.86E-05	5.34E-05
2958	256315.4	4085757	6.16E-04	9.38E-05	5.08E-05
2959	256305.3	4085735	5.84E-04	8.89E-05	4.81E-05
2960	256295.3	4085713	5.52E-04	8.41E-05	4.55E-05
2961	256285.2	4085691	5.22E-04	7.95E-05	4.30E-05
2962	256275.2	4085669	4.93E-04	7.51E-05	4.06E-05
2963	256265.1	4085648	4.66E-04	7.10E-05	3.84E-05
2964	256255.1	4085626	4.41E-04	6.72E-05	3.64E-05
2965	256245.1	4085604	4.20E-04	6.39E-05	3.46E-05
2966	256235	4085582	4.01E-04	6.11E-05	3.30E-05
2967	256225	4085560	3.85E-04	5.87E-05	3.17E-05
2968	256214.9	4085538	3.72E-04	5.66E-05	3.06E-05
2969	256204.9	4085517	3.61E-04	5.49E-05	2.97E-05
2970	256194.8	4085495	3.51E-04	5.35E-05	2.89E-05
2971	256184.8	4085473	3.43E-04	5.23E-05	2.83E-05
2972	256174.7	4085451	3.36E-04	5.12E-05	2.77E-05
2973	256164.7	4085429	3.30E-04	5.03E-05	2.72E-05
2974	256154.6	4085408	3.24E-04	4.93E-05	2.67E-05
2975	256144.6	4085386	3.17E-04	4.84E-05	2.62E-05
2976	256134.5	4085364	3.11E-04	4.74E-05	2.57E-05
2977	256124.5	4085342	3.05E-04	4.65E-05	2.51E-05
2978	256114.4	4085320	2.99E-04	4.55E-05	2.46E-05
2979	256104.4	4085298	2.93E-04	4.46E-05	2.41E-05
2980	256094.3	4085277	2.88E-04	4.38E-05	2.37E-05
2981	256084.3	4085255	2.82E-04	4.30E-05	2.33E-05
2982	256074.2	4085233	2.78E-04	4.24E-05	2.29E-05
2983	257629.5	4086654	5.16E-04	7.86E-05	4.25E-05
2984	257653.8	4086653	5.11E-04	7.79E-05	4.22E-05
2985	257678.1	4086652	5.07E-04	7.72E-05	4.18E-05
2986	257702.4	4086651	5.02E-04	7.66E-05	4.14E-05
2987	257726.7	4086650	4.98E-04	7.59E-05	4.11E-05
2988	257750.9	4086649	4.94E-04	7.53E-05	4.07E-05
2989	257775.2	4086648	4.90E-04	7.46E-05	4.04E-05
2990	257799.5	4086647	4.85E-04	7.40E-05	4.00E-05
2991	257823.8	4086646	4.81E-04	7.32E-05	3.96E-05
2992	257848.1	4086644	4.76E-04	7.24E-05	3.92E-05
2993	257872.4	4086643	4.70E-04	7.16E-05	3.87E-05
2994	257896.6	4086642	4.64E-04	7.06E-05	3.82E-05
2995	257920.9	4086641	4.57E-04	6.96E-05	3.77E-05
2996	257945.2	4086640	4.50E-04	6.85E-05	3.71E-05
2997	257969.5	4086639	4.42E-04	6.73E-05	3.64E-05
2998	257993.8	4086638	4.34E-04	6.61E-05	3.58E-05
2999	258018	4086637	4.25E-04	6.48E-05	3.51E-05
3000	258042.3	4086636	4.17E-04	6.35E-05	3.43E-05
3001	258066.6	4086635	4.08E-04	6.21E-05	3.36E-05

3002	258090.9	4086634	3.99E-04	6.08E-05	3.29E-05
3003	258115.2	4086633	3.91E-04	5.95E-05	3.22E-05
3004	258139.5	4086632	3.83E-04	5.83E-05	3.16E-05
3005	258163.7	4086630	3.75E-04	5.72E-05	3.09E-05
3006	258188	4086629	3.69E-04	5.61E-05	3.04E-05
3007	258212.3	4086628	3.62E-04	5.52E-05	2.99E-05
3008	258236.6	4086627	3.56E-04	5.43E-05	2.94E-05
3009	258260.9	4086626	3.51E-04	5.34E-05	2.89E-05
3010	258285.1	4086625	3.45E-04	5.26E-05	2.85E-05
3011	258309.4	4086624	3.40E-04	5.18E-05	2.80E-05
3012	258333.7	4086623	3.35E-04	5.10E-05	2.76E-05
3013	258358	4086622	3.30E-04	5.03E-05	2.72E-05
3014	258382.3	4086621	3.25E-04	4.95E-05	2.68E-05
3015	258406.6	4086620	3.20E-04	4.87E-05	2.64E-05
3016	258430.8	4086619	3.15E-04	4.80E-05	2.60E-05

			UnMitigated		11				T2L3						T4					
			7	258385.11	4084970.84															
								6.05E-06						9.41E-07						4.12E-07
			Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Total	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Total	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Total
1	258389.5	4085119	3.09E-09	4.46E-08	7.88E-07	7.88E-07	4.39E-07	2.06E-06	4.68E-10	6.80E-09	1.23E-07	1.23E-07	6.77E-08	3.21E-07	2.54E-10	3.68E-09	5.47E-08	5.47E-08	2.71E-08	1.41E-07
2	258388.7	4085095	4.92E-09	7.11E-08	1.26E-06	1.26E-06	7.00E-07	3.29E-06	7.46E-10	1.08E-08	1.96E-07	1.96E-07	1.08E-07	5.12E-07	4.05E-10	5.86E-09	8.72E-08	8.72E-08	4.32E-08	2.24E-07
3	258388	4085070	6.82E-09	9.86E-08	1.74E-06	1.74E-06	9.71E-07	4.56E-06	1.03E-09	1.50E-08	2.72E-07	2.72E-07	1.49E-07	7.09E-07	5.62E-10	8.13E-09	1.21E-07	1.21E-07	5.99E-08	3.10E-07
4	258387.3	4085045	8.02E-09	1.16E-07	2.05E-06	2.05E-06	1.14E-06	5.36E-06	1.22E-09	1.77E-08	3.20E-07	3.20E-07	1.76E-07	8.34E-07	6.61E-10	9.56E-09	1.42E-07	1.42E-07	7.04E-08	3.65E-07
5	258386.6	4085020	8.71E-09	1.26E-07	2.22E-06	2.22E-06	1.24E-06	5.82E-06	1.32E-09	1.92E-08	3.47E-07	3.47E-07	1.91E-07	9.06E-07	7.18E-10	1.04E-08	1.55E-07	1.55E-07	7.65E-08	3.97E-07
6	258385.8	4084996	9.04E-09	1.31E-07	2.31E-06	2.31E-06	1.29E-06	6.05E-06	1.37E-09	1.99E-08	3.61E-07	3.61E-07	1.98E-07	9.41E-07	7.45E-10	1.08E-08	1.60E-07	1.60E-07	7.94E-08	4.12E-07
7	258385.1	4084971	9.04E-09	1.31E-07	2.31E-06	2.31E-06	1.29E-06	6.05E-06	1.37E-09	1.99E-08	3.61E-07	3.61E-07	1.98E-07	9.41E-07	7.45E-10	1.08E-08	1.60E-07	1.60E-07	7.94E-08	4.12E-07
8	258384.4	4084946	8.67E-09	1.25E-07	2.21E-06	2.21E-06	1.23E-06	5.80E-06	1.32E-09	1.91E-08	3.46E-07	3.46E-07	1.90E-07	9.02E-07	7.15E-10	1.03E-08	1.54E-07	1.54E-07	7.62E-08	3.95E-07
9	258383.7	4084921	7.48E-09	1.08E-07	1.91E-06	1.91E-06	1.06E-06	5.00E-06	1.13E-09	1.65E-08	2.98E-07	2.98E-07	1.64E-07	7.78E-07	6.16E-10	8.91E-09	1.33E-07	1.33E-07	6.57E-08	3.41E-07
10	258407.8	4085136	1.90E-09	2.75E-08	4.85E-07	4.85E-07	2.70E-07	1.27E-06	2.88E-10	4.18E-09	7.57E-08	7.57E-08	4.16E-08	1.98E-07	1.57E-10	2.26E-09	3.37E-08	3.37E-08	1.67E-08	8.65E-08
11	258383.9	4085162	1.83E-09	2.65E-08	4.68E-07	4.68E-07	2.61E-07	1.23E-06	2.78E-10	4.04E-09	7.31E-08	7.31E-08	4.02E-08	1.91E-07	1.51E-10	2.19E-09	3.25E-08	3.25E-08	1.61E-08	8.35E-08
12	258413.7	4085094	3.03E-09	4.38E-08	7.73E-07	7.73E-07	4.31E-07	2.02E-06	4.59E-10	6.67E-09	1.21E-07	1.21E-07	6.64E-08	3.15E-07	2.50E-10	3.61E-09	5.37E-08	5.37E-08	2.66E-08	1.38E-07
13	258413	4085069	4.06E-09	5.88E-08	1.04E-06	1.04E-06	5.79E-07	2.72E-06	6.17E-10	8.96E-09	1.62E-07	1.62E-07	8.91E-08	4.23E-07	3.35E-10	4.85E-09	7.21E-08	7.21E-08	3.57E-08	1.85E-07
14	258412.3	4085044	4.95E-09	7.16E-08	1.26E-06	1.26E-06	7.05E-07	3.31E-06	7.51E-10	1.09E-08	1.97E-07	1.97E-07	1.09E-07	5.15E-07	4.08E-10	5.90E-09	8.78E-08	8.78E-08	4.35E-08	2.25E-07
15	258411.6	4085020	5.58E-09	8.07E-08	1.42E-06	1.42E-06	7.94E-07	3.73E-06	8.46E-10	1.23E-08	2.22E-07	2.22E-07	1.22E-07	5.80E-07	4.60E-10	6.65E-09	9.89E-08	9.89E-08	4.90E-08	2.54E-07
16	258410.8	4084995	5.96E-09	8.61E-08	1.52E-06	1.52E-06	8.48E-07	3.98E-06	9.04E-10	1.31E-08	2.37E-07	2.37E-07	1.31E-07	6.20E-07	4.91E-10	7.10E-09	1.06E-07	1.06E-07	5.23E-08	2.71E-07
17	258410.1	4084970	6.10E-09	8.82E-08	1.56E-06	1.56E-06	8.69E-07	4.08E-06	9.26E-10	1.34E-08	2.43E-07	2.43E-07	1.34E-07	6.35E-07	5.03E-10	7.27E-09	1.08E-07	1.08E-07	5.36E-08	2.78E-07
18	258409.4	4084945	5.98E-09	8.65E-08	1.53E-06	1.53E-06	8.51E-07	4.00E-06	9.07E-10	1.32E-08	2.38E-07	2.38E-07	1.31E-07	6.22E-07	4.93E-10	7.13E-09	1.06E-07	1.06E-07	5.25E-08	2.72E-07
19	258408.7	4084921	5.55E-09	8.02E-08	1.42E-06	1.42E-06	7.90E-07	3.71E-06	8.42E-10	1.22E-08	2.21E-07	2.21E-07	1.22E-07	5.77E-07	4.57E-10	6.61E-09	9.84E-08	9.84E-08	4.87E-08	2.53E-07
20	258432.8	4085136	1.50E-09	2.16E-08	3.82E-07	3.82E-07	2.13E-07	1.00E-06	2.27E-10	3.29E-09	5.96E-08	5.96E-08	3.28E-08	1.56E-07	1.23E-10	1.78E-09	2.65E-08	2.65E-08	1.31E-08	6.81E-08
21	258402.2	4085179	1.32E-09	1.91E-08	3.37E-07	3.37E-07	1.88E-07	8.81E-07	2.00E-10	2.90E-09	5.25E-08	5.25E-08	2.89E-08	1.37E-07	1.09E-10	1.57E-09	2.34E-08	2.34E-08	1.16E-08	6.00E-08
22	258438.7	4085093	2.15E-09	3.11E-08	5.48E-07	5.48E-07	3.06E-07	1.44E-06	3.26E-10	4.73E-09	8.56E-08	8.56E-08	4.71E-08	2.23E-07	1.77E-10	2.56E-09	3.81E-08	3.81E-08	1.89E-08	9.78E-08
23	258438	4085068	2.76E-09	3.99E-08	7.04E-07	7.04E-07	3.93E-07	1.84E-06	4.19E-10	6.08E-09	1.10E-07	1.10E-07	6.05E-08	2.87E-07	2.27E-10	3.29E-09	4.89E-08	4.89E-08	2.42E-08	1.26E-07
24	258437.3	4085044	3.37E-09	4.87E-08	8.60E-07	8.60E-07	4.79E-07	2.25E-06	5.11E-10	7.42E-09	1.34E-07	1.34E-07	7.38E-08	3.50E-07	2.78E-10	4.01E-09	5.97E-08	5.97E-08	2.96E-08	1.53E-07
25	258436.5	4085019	3.87E-09	5.60E-08	9.89E-07	9.89E-07	5.51E-07	2.59E-06	5.88E-10	8.53E-09	1.54E-07	1.54E-07	8.49E-08	4.03E-07	3.19E-10	4.62E-09	6.87E-08	6.87E-08	3.40E-08	1.76E-07
26	258435.8	4084994	4.23E-09	6.12E-08	1.08E-06	1.08E-06	6.03E-07	2.83E-06	6.42E-10	9.32E-09	1.69E-07	1.69E-07	9.28E-08	4.40E-07	3.49E-10	5.05E-09	7.51E-08	7.51E-08	3.72E-08	1.93E-07
27	258435.1	4084969	4.43E-09	6.41E-08	1.13E-06	1.13E-06	6.31E-07	2.96E-06	6.72E-10	9.76E-09	1.77E-07	1.77E-07	9.71E-08	4.61E-07	3.65E-10	5.28E-09	7.86E-08	7.86E-08	3.89E-08	2.02E-07
28	258434.4	4084945	4.45E-09	6.44E-08	1.14E-06	1.14E-06	6.34E-07	2.98E-06	6.76E-10	9.81E-09	1.78E-07	1.78E-07	9.76E-08	4.63E-07	3.67E-10	5.31E-09	7.90E-08	7.90E-08	3.91E-08	2.03E-07
29	258433.7	4084920	4.30E-09	6.23E-08	1.10E-06	1.10E-06	6.13E-07	2.88E-06	6.53E-10	9.48E-09	1.72E-07	1.72E-07	9.44E-08	4.48E-07	3.55E-10	5.13E-09	7.64E-08	7.64E-08	3.78E-08	1.96E-07
30	258457.7	4085135	1.22E-09	1.77E-08	3.12E-07	3.12E-07	1.74E-07	8.16E-07	1.85E-10	2.69E-09	4.87E-08	4.87E-08	2.68E-08	1.27E-07	1.01E-10	1.45E-09	2.17E-08	2.17E-08	1.07E-08	5.56E-08
31	258444.4	4085170	1.03E-09	1.49E-08	2.64E-07	2.64E-07	1.47E-07	6.90E-07	1.57E-10	2.27E-09	4.12E-08	4.12E-08	2.26E-08	1.07E-07	8.51E-11	1.23E-09	1.83E-08	1.83E-08	9.06E-09	4.70E-08
32	258420.5	4085196	1.01E-09	1.46E-08	2.59E-07	2.59E-07	1.44E-07	6.77E-07	1.54E-10	2.23E-09	4.04E-08	4.04E-08	2.22E-08	1.05E-07	8.35E-11	1.21E-09	1.80E-08	1.80E-08	8.89E-09	4.61E-08
33	258386.1	4085212	1.14E-09	1.65E-08	2.91E-07	2.91E-07	1.62E-07	7.61E-07	1.73E-10	2.51E-09	4.54E-08	4.54E-08	2.49E-08	1.18E-07	9.38E-11	1.36E-09	2.02E-08	2.02E-08	9.99E-09	5.18E-08
34	258463.7	4085092	1.65E-09	2.38E-08	4.20E-07	4.20E-07	2.34E-07	1.10E-06	2.50E-10	3.63E-09	6.56E-08	6.56E-08	3.61E-08	1.71E-07	1.36E-10	1.96E-09	2.92E-08	2.92E-08	1.45E-08	7.49E-08
35	258463	4085068	2.04E-09	2.94E-08	5.20E-07	5.20E-07	2.90E-07	1.36E-06	3.09E-10	4.49E-09	8.12E-08	8.12E-08	4.46E-08	2.12E-07	1.68E-10	2.43E-09	3.61E-08	3.61E-08	1.79E-08	9.27E-08
36	258462.3	4085043	2.46E-09	3.55E-08	6.27E-07	6.27E-07	3.50E-07	1.64E-06	3.73E-10	5.41E-09	9.79E-08	9.79E-08	5.38E-08	2.55E-07	2.02E-10	2.93E-09	4.36E-08	4.36E-08	2.16E-08	1.12E-07
37	258461.5	4085018	2.84E-09	4.11E-08	7.26E-07	7.26E-07	4.05E-07	1.90E-06	4.32E-10	6.26E-09	1.13E-07	1.13E-07	6.23E-08	2.96E-07	2.34E-10	3.39E-09	5.04E-08	5.04E-08	2.50E-08	1.29E-07
38	258460.8	4084993	3.15E-09	4.56E-08	8.06E-07	8.06E-07	4.49E-07	2.11E-06	4.79E-10	6.95E-09	1.26E-07	1.26E-07	6.92E-08	3.28E-07	2.60E-10	3.76E-09	5.60E-08	5.60E-08	2.77E-08	1.44E-07
39	258460.1	4084969	3.36E-09	4.86E-08	8.59E-07	8.59E-07	4.79E-07	2.25E-06	5.10E-10	7.41E-09	1.34E-07	1.34E-07	7.37E-08	3.50E-07	2.77E-10	4.01E-09	5.97E-08	5.97E-08	2.95E-08	1.53E-07
40	258459.4	4084944	3.45E-09	4.99E-08	8.82E-07	8.82E-07	4.92E-07	2.31E-06	5.24E-10	7.61E-09	1.38E-07	1.38E-07	7.57E-08	3.59E-07	2.85E-10	4.12E-09	6.13E-08	6.13E-08	3.03E-08	1.57E-07
41	258458.6	4084919	3.41E-09	4.93E-08	8.71E-07	8.71E-07	4.86E-07	2.28E-06	5.18E-10	7.51E-09	1.36E-07	1.36E-07	7.48E-08	3.55E-07	2.81E-10	4.07E-09	6.05E-08	6.05E-08	2.99E-08	1.55E-07
42	258506.4	4085137	8.64E-10	1.25E-08	2.21E-07	2.21E-07	1.23E-07	5.78E-07	1.31E-10	1.90E-09	3.44E-08	3.44E-08	1.89E-08	8.99E-08	7.12E-11	1.03E-09	1.53E-08	1.53E-08	7.59E-09	3.93E-08
43	258498.4	4085158	7.98E-10	1.15E-08	2.04E-07	2.04E-07	1.14E-07	5.34E-07	1.21E-10	1.76E-09	3.18E-08	3.18E-08	1.75E-08	8.30E-08	6.58E-11	9.51E-10	1.42E-08	1.42E-08	7.01E-09	3.63E-08
44	258490.4	4085180	7.38E-10	1.07E-08	1.88E-07	1.88E-07	1.05E-07	4.93E-07	1.12E-10	1.63E-09	2.94E-08	2.94E-08	1.62E-08	7.68E-08	6.08E-11	8.80E-10	1.31E-08	1.31E-08	6.48E-09	3.36E-08
45	258482.4	4085201	6.84E-10	9.90E-09	1.75E-07	1.75E-07	9.74E-08	4.58E-07	1.04E-10	1.51E-09	2.73E-08	2.73E-08	1.50E-08	7.12E-08	5.64E-11	8.16E-10	1.21E-08	1.21E-08	6.01E-09	3.12E-08
46	258453.7	4085232	6.74E-10	9.75E-09	1.72E-07	1.72E-07	9.60E-08	4.51E-07	1.02E-10	1.49E-09	2.69E-08	2.69E-08	1.48E-08	7.01E-08	5.56E-11	8.04E-10	1.20E-08	1.20E-08	5.92E-09	3.07E-08
47	258433.1	4085241	7.13E-10	1.03E-08	1.82E-07	1.82E-07	1.02E-07	4.77E-07	1.08E-10	1.57E-09	2.85E-08	2.85E-08	1.56E-08	7.42E-08	5.88E-11	8.51E-10	1.27E-08	1.27E-08	6.27E-09	3.25E-08
48	258412.4	4085251	7.54E-10	1.09E-08	1.92E-07	1.92E-07	1.07E-07	5.04E-07	1.14E-10	1.66E-09	3.01E-08	3.01E-08	1.65E-08	7.84E-08	6.21E-11	8.98E-10	1.34E-08	1.34E-08	6.62E-09	3.43E-08
49	258391.8	4085260	7.94E-10	1.15E-08	2.03E-07	2.03E-07	1.13E-07	5.31E-07	1.21E-10	1.75E-09	3.17E-08	3.17E-08	1.74E-08	8.26E-08	6.55E-11	9.47E-10	1.41E-08	1.41E-08	6.97E-09	3.62E-08
50	258514.4	4085116	9.34E-10	1.35E-08	2.38E-07	2.38E-07	1.33E-07	6.24E-07	1.42E-10	2.06E-09	3.72E-08	3.72E-08	2.05E-08	9.71E-08	7.70E-11	1.11E-09	1.66E-08	1.66E-08	8.20E-09	4.25E-08
51	258513.7	4085091	1.09E-09	1.58E-08	2.79E-07	2.79E-07	1.56E-07	7.31E-07	1.66E-10	2.41E-09	4.36E-08	4.36E-08	2.40E-08	1.14E-07	9.01E-11	1.30E-09	1.94E-08	1.94E-08	9.60E-09	4.98E-08
52	258513	4085066	1.28E-09	1.86E-08	3.28E-07	3.28E-07	1.83E-07	8.59E-07	1.95E-10	2.83E-09	5.12E-08	5.12E-08	2.82E-08	1.34E-07	1.06E-10	1.53E-09	2.28E-08	2.28E-08	1.13E-08	5.85E-08
53	258512.2	4085041	1.50E-09	2.17E-08	3.83E-07	3.83E-07	2.14E-07	1.00E-06	2.28E-10	3.30E-09	5.98E-08	5.98E-08	3.29E-08	1.56E-07	1.24E-10	1.79E-09	2.66E-08	2.66E-08	1.32E-08	6.83E-08
54	258511.5	4085017	1.72E-09	2.49E-08	4.40E-07	4.40E-07	2.45E-07	1.15E-06	2.61E-10	3.79E-09	6.87E-08	6.87E-08	3.77E-08	1.79E-07	1.42E-10	2.05E-09	3.05E-08	3.05E-08	1.51E-08	7.84E-08
55	258510.8	4084992	1.93E-09	2.79E-08	4.93E-07	4.93E-07	2.75E-07	1.29E-06	2.93E-10	4.25E-09	7.69E-08	7.69E-08	4.23E-08	2.01E-07	1.59E-10	2.30E-09	3.42E-08	3.42E-08	1.69E-08	8.78E-08
56	258510.1	4084967	2.10E-09	3.04E-08	5.36E-07	5.36E-07	2.99E-07	1.40E-06	3.19E-10	4.63E-09	8.38E-08	8.38E-08	4.60E-08	2.19E-07	1.73E-10	2.50E-09	3.73E-08	3.73E-08	1.84E-08	9.57E-08
57	258509.3	4084942	2.22E-09	3.21E-08	5.68E-07	5.68E-07	3.16E-07	1.49E-06	3.37E-10	4.90E-09	8.86E-08	8.86E-08	4.87E-08	2.31E-07	1.83E-10	2.65E-09	3.94E-08	3.94E-08	1.95E-08	1.01E-07
58	258508.6	4084918	2.28E-09	3.30E-08	5.83E-07	5.83E-07	3.25E-07	1.53E-06	3.47E-10	5.03E-09	9.11E-08	9.11E-08	5.01E-08	2.38E-07	1.88E-10	2.72E-09	4.05E-08	4.05E-08	2.01E-08	1.04E-07
59	258556.8	4085135	6.62E-10	9.57E-09	1.69E-07	1.69E-07	9.42E-08	4.43E-07	1.00E-10	1.46E-09	2.64E-08	2.64E-08	1.45E-08	6.89E-08	5.46E-11	7.89E-10	1.17E-08	1.17E-08	5.81E-09	3.01E-08
60	258541.5	4085175	5.86E-10	8.47E-09	1.50E-07	1.50E-07	8.34E-08	3.92E-07	8.89E-11	1.29E-09	2.34E-08	2.34E-08	1.28E-08	6.09E-08	4.83E-11	6.98E-10	1.04E-08	1.04E-08	5.14E-09	2.67E-08
61	258526.2	4085216	5.18E-10	7.50E-09	1.32E-07	1.32E-07	7.38E-08	3.47E-07	7.86E-11	1.14E-09	2.07E-08	2.07E-08	1.14E-08	5.39E-08	4.27E-11	6.18E-10	9.19E-09	9.19E-09	4.55E-09	2.36E-08
62	258491.3	4085265	4.83E-10	6.99E-09	1.23E-07	1.23E-07	6.88E-08	3.23E-07	7.33E-11	1.06E-09	1.93E-08	1.93E-08	1.06E-08	5.03E-08	3.98E-11	5.76E-10	8.57E-09	8.57E-09	4.24E-09	2.20E-08
63	258452	4085284	5.29E-10	7.66E-09	1.35E-07	1.35E-07	7.54E-08	3.54E-07	8.03E-11	1.17E-09	2.11E-08	2.11E-08	1.16E-08	5.51E-08	4.36E-11	6.31E-10	9.39E-09	9.39E-09	4.65E-09	2.41E-08
64	258412.6	4085302	5.76E-10	8.34E-09	1.47E-07	1.47E-07	8.21E-08	3.85E-07	8.75E-11	1.27E-09	2.30E-08	2.30E-08	1.26E-08	6.00E-08	4.75E-11	6.87E-10	1.02E-08	1.02E-08	5.06E-09	2.62E-08
65	258563.7	4085090	7.96E-10	1.15E-08	2.03E-07	2.03E-07	1.13E-07	5.32E-07	1.21E-10	1.75E-09	3.17E-08	3.17E-08	1.74E-08	8.28E-08	6.56E-11	9.49E-10	1.41E-08	1.41E-08	6.99E-09	3.62E-08
66	258562.9	4085065	9.05E-10	1.31E-08	2.31E-07	2.31E-07	1.29E-07	6.05E-07	1.37E-10	1.99E-09	3.61E-08	3.61E-08	1.98E-08	9.42E-08	7.46E-11	1.08E-09	1.61E-08	1.61E-08	7.95E-09	4.12E-08
67	258562.2	4085040	1.03E-09	1.49E-08	2.63E-07	2.63E-07	1.46E-07	6.88E-07	1.56E-10	2.27E-09	4.10E-08	4.10E-08	2.26E-08	1.07E-07	8.48E-11	1.23E-09	1.83E-08	1.83E-08	9.04E-09	4.69E-08
68	258561.5	4085015	1.16E-09	1.68E-08	2.97E-07	2.97E-07	1.65E-07	7.77E-07	1.76E-10	2.56E-09	4.63E-08	4.63E-08	2.55E-08	1.21E-07	9.57E-11	1.38E-09	2.06E-08	2.06E-08	1.02E-08	5.29E-08
69	258560.8	4084990	1.29E-09	1.87E-08	3.31E-07	3.31E-07	1.84E-07	8.66E-07	1.96E-10	2.85E-09	5.16E-08	5.16E-08	2.84E-08	1.35E-07	1.07E-10	1.54E-09	2.30E-08	2.30E-08	1.14E-08	5.90E-08
70	258560	4084966	1.42E-09	2.05E-08	3.62E-07	3.62E-07	2.02E-07	9.49E-07	2.15E-10	3.13E-09	5.66E-08	5.66E-08	3.11E-08	1.48E-07	1.17E-10	1.69E-09	2.52E-08	2.52E-08	1.25E-08	6.46E-08
71	258559.3	4084941	1.52E-09	2.20E-08	3.89E-07	3.89E-07	2.17E-07	1.02E-06	2.31E-10	3.36E-09	6.08E-08	6.08E-08	3.34E-08	1.59E-07	1.26E-10	1.82E-09	2.70E-08	2.70E-08	1.34E-08	6.94E-08
72	258558.6	4084916	1.60E-09	2.32E-08	4.09E-07	4.09E-07	2.28E-07	1.07E-06	2.43E-10	3.53E-09	6.39E-08	6.39E-08	3.51E-08	1.67E-07	1.32E-10	1.91E-09	2.84E-08	2.84E-08	1.41E-08	7.30E-08
73	258606	4085135	5.22E-10	7.56E-09	1.33E-07	1.33E-07	7.44E-08	3.49E-07	7.93E-11	1.15E-09	2.08E-08	2.08E-08	1.15E-08	5.44E-08	4.31E-11	6.23E-10	9.27E-09	9.27E-09	4.59E-09	2.38E-08
74	258597.7	4085157	4.95E-10	7.16E-09	1.26E-07	1.26E-07	7.05E-08	3.31E-07	7.51E-11	1.09E-09	1.97E-08	1.97E-08	1.08E-08	5.15E-08	4.08E-11	5.90E-10	8.78E-09	8.78E-09	4.35E-09	2.25E-08
75	258589.3	4085179	4.68E-10	6.76E-09	1.19E-07	1.19E-07	6.66E-08	3.13E-07	7.10E-11	1.03E-09	1.86E-08	1.86E-08	1.03E-08	4.86E-08	3.85E-11	5.57E-10	8.30E-09	8.30E-09	4.11E-09	2.13E-08
76	258581	4085202	4.41E-10	6.38E-09	1.13E-07	1.13E-07	6.28E-08	2.95E-07	6.70E-11	9.72E-10	1.76E-08	1.76E-08	9.67E-09	4.59E-08	3.64E-11	5.26E-10	7.83E-09	7.83E-09	3.87E-09	2.01E-08
77	258572.6	4085224	4.16E-10	6.02E-09	1.06E-07	1.06E-07	5.93E-08	2.78E-07	6.32E-11	9.17E-10	1.66E-08	1.66E-08	9.13E-09	4.33E-08	3.43E-11	4.96E-10	7.39E-09	7.39E-09	3.66E-09	1.90E-08
78	258564.3	4085246	3.93E-10	5.69E-09	1.00E-07	1.00E-07	5.60E-08	2.63E-07	5.97E-11	8.67E-10	1.57E-08	1.57E-08	8.62E-09	4.09E-08	3.24E-11	4.69E-10	6.98E-09	6.98E-09	3.45E-09	1.79E-08
79	258556	4085268	3.72E-10	5.39E-09	9.51E-08	9.51E-08	5.30E-08	2.49E-07	5.65E-11	8.20E-10	1.48E-08	1.48E-08	8.16E-09	3.87E-08	3.07E-11	4.44E-10	6.61E-09	6.61E-09	3.27E-09	1.70E-08
80	258526.1	4085300	3.68E-10	5.33E-09	9.41E-08	9.41E-08	5.24E-08	2.46E-07	5.59E-11	8.12E-10	1.47E-08	1.47E-08	8.08E-09	3.83E-08	3.04E-11	4.39E-10	6.54E-09	6.54E-09	3.23E-09	1.68E-08
81	258504.6	4085310	3.85E-10	5.56E-09	9.82E-08	9.82E-08	5.48E-08	2.57E-07	5.84E-11	8.48E-10	1.53E-08	1.53E-08	8.43E-09	4.00E-08	3.17E-11	4.59E-10	6.83E-09	6.83E-09	3.38E-09	1.75E-08
82	258483.1	4085320	4.02E-10	5.82E-09	1.03E-07	1.03E-07	5.73E-08	2.69E-07	6.10E-11	8.86E-10	1.60E-08	1.60E-08	8.82E-09	4.18E-08	3.31E-11	4.79E-10	7.13E-09	7.13E-09	3.53E-09	1.83E-08
83	258461.6	4085330	4.20E-10	6.07E-09	1.07E-07	1.07E-07	5.98E-08	2.81E-07	6.37E-11	9.25E-10	1.67E-08	1.67E-08	9.20E-09	4.37E-08	3.46E-11	5.00E-10	7.45E-09	7.45E-09	3.69E-09	1.91E-08
84	258440.1	4085340	4.37E-10	6.32E-09	1.12E-07	1.12E-07	6.22E-08	2.92E-07	6.63E-11	9.62E-10	1.74E-08	1.74E-08	9.57E-09	4.54E-08	3.60E-11	5.21E-10	7.75E-09	7.75E-09	3.83E-09	1.99E-08
85	258418.5	4085350	4.54E-10	6.56E-09	1.16E-07	1.16E-07	6.46E-08	3.03E-07	6.88E-11	9.99E-10	1.81E-08	1.81E-08	9.94E-09	4.72E-08	3.74E-11	5.41E-10	8.05E-09	8.05E-09	3.98E-09	2.07E-08
86	258397	4085360	4.71E-10	6.81E-09	1.20E-07	1.20E-07	6.71E-08	3.15E-07	7.15E-11	1.04E-09	1.88E-08	1.88E-08	1.03E-08	4.90E-08	3.88E-11	5.62E-10	8.36E-09	8.36E-09	4.14E-09	2.15E-08
87	258614.4	4085113	5.50E-10	7.96E-09	1.41E-07	1.41E-07	7.83E-08	3.68E-07	8.35E-11	1.21E-09	2.19E-08	2.19E-08	1.21E-08	5.72E-08	4.54E-11	6.56E-10	9.76E-09	9.76E-09	4.83E-09	2.51E-08
88	258613.6	4085088	6.11E-10	8.84E-09	1.56E-07	1.56E-07	8.70E-08	4.08E-07	9.27E-11	1.35E-09	2.44E-08	2.44E-08	1.34E-08	6.36E-08	5.04E-11	7.28E-10	1.08E-08	1.08E-08	5.36E-09	2.78E-08
89	258612.9	4085063	6.80E-10	9.84E-09	1.74E-07	1.74E-07	9.68E-08	4.55E-07	1.03E-10	1.50E-09	2.71E-08	2.71E-08	1.49E-08	7.08E-08	5.61E-11	8.11E-10	1.21E-08	1.21E-08	5.97E-09	3.10E-08
90	258612.2	4085039	7.58E-10	1.10E-08	1.93E-07	1.93E-07	1.08E-07	5.07E-07	1.15E-10	1.67E-09	3.02E-08	3.02E-08	1.66E-08	7.88E-08	6.24E-11	9.03E-10	1.34E-08	1.34E-08	6.65E-09	3.45E-08
91	258611.5	4085014	8.42E-10	1.22E-08	2.15E-07	2.15E-07	1.20E-07	5.63E-07	1.28E-10	1.85E-09	3.36E-08	3.36E-08	1.85E-08	8.76E-08	6.94E-11	1.00E-09	1.49E-08	1.49E-08	7.39E-09	3.83E-08
92	258610.7	4084989	9.30E-10	1.34E-08	2.37E-07	2.37E-07	1.32E-07	6.22E-07	1.41E-10	2.05E-09	3.71E-08	3.71E-08	2.04E-08	9.67E-08	7.66E-11	1.11E-09	1.65E-08	1.65E-08	8.16E-09	4.23E-08
93	258610	4084964	1.02E-09	1.47E-08	2.60E-07	2.60E-07	1.45E-07	6.80E-07	1.54E-10	2.24E-09	4.05E-08	4.05E-08	2.23E-08	1.06E-07	8.38E-11	1.21E-09	1.80E-08	1.80E-08	8.93E-09	4.63E-08
94	258609.3	4084940	1.10E-09	1.59E-08	2.81E-07	2.81E-07	1.56E-07	7.34E-07	1.67E-10	2.42E-09	4.38E-08	4.38E-08	2.41E-08	1.14E-07	9.05E-11	1.31E-09	1.95E-08	1.95E-08	9.65E-09	5.00E-08
95	258608.6	4084915	1.17E-09	1.69E-08	2.98E-07	2.98E-07	1.66E-07	7.81E-07	1.77E-10	2.57E-09	4.66E-08	4.66E-08	2.56E-08	1.22E-07	9.63E-11	1.39E-09	2.07E-08	2.07E-08	1.03E-08	5.32E-08
96	258656.3	4085133	4.27E-10	6.18E-09	1.09E-07	1.09E-07	6.08E-08	2.85E-07	6.48E-11	9.41E-10	1.70E-08	1.70E-08	9.36E-09	4.44E-08	3.52E-11	5.09E-10	7.57E-09	7.57E-09	3.75E-09	1.94E-08
97	258648.3	4085154	4.09E-10	5.91E-09	1.04E-07	1.04E-07	5.82E-08	2.73E-07	6.20E-11	9.01E-10	1.63E-08	1.63E-08	8.96E-09	4.25E-08	3.37E-11	4.87E-10	7.25E-09	7.25E-09	3.59E-09	1.86E-08
98	258640.3	4085175	3.90E-10	5.65E-09	9.97E-08	9.97E-08	5.56E-08	2.61E-07	5.93E-11	8.60E-10	1.56E-08	1.56E-08	8.56E-09	4.06E-08	3.22E-11	4.66E-10	6.93E-09	6.93E-09	3.43E-09	1.78E-08
99	258632.3	4085197	3.72E-10	5.38E-09	9.51E-08	9.51E-08	5.30E-08	2.49E-07	5.65E-11	8.20E-10	1.48E-08	1.48E-08	8.16E-09	3.87E-08	3.07E-11	4.44E-10	6.61E-09	6.61E-09	3.27E-09	1.70E-08
100	258624.3	4085218	3.55E-10	5.13E-09	9.06E-08	9.06E-08	5.05E-08	2.37E-07	5.38E-11	7.81E-10	1.41E-08	1.41E-08	7.77E-09	3.69E-08	2.92E-11	4.23E-10	6.29E-09	6.29E-09	3.11E-09	1.61E-08
101	258616.3	4085239	3.38E-10	4.88E-09	8.63E-08	8.63E-08	4.81E-08	2.26E-07	5.13E-11	7.44E-10	1.35E-08	1.35E-08	7.40E-09	3.51E-08	2.78E-11	4.03E-10	5.99E-09	5.99E-09	2.97E-09	1.54E-08
102	258608.3	4085260	3.22E-10	4.65E-09	8.22E-08	8.22E-08	4.58E-08	2.15E-07	4.88E-11	7.09E-10	1.28E-08	1.28E-08	7.05E-09	3.35E-08	2.65E-11	3.84E-10	5.71E-09	5.71E-09	2.83E-09	1.47E-08
103	258600.3	4085282	3.07E-10	4.44E-09	7.84E-08	7.84E-08	4.37E-08	2.05E-07	4.66E-11	6.76E-10	1.22E-08	1.22E-08	6.73E-09	3.19E-08	2.53E-11	3.66E-10	5.44E-09	5.44E-09	2.70E-09	1.40E-08
104	258592.3	4085303	2.93E-10	4.24E-09	7.49E-08	7.49E-08	4.18E-08	1.96E-07	4.45E-11	6.46E-10	1.17E-08	1.17E-08	6.43E-09	3.05E-08	2.42E-11	3.50E-10	5.20E-09	5.20E-09	2.58E-09	1.34E-08
105	258563.6	4085334	2.91E-10	4.20E-09	7.42E-08	7.42E-08	4.14E-08	1.94E-07	4.41E-11	6.40E-10	1.16E-08	1.16E-08	6.37E-09	3.02E-08	2.39E-11	3.46E-10	5.15E-09	5.15E-09	2.55E-09	1.32E-08
106	258542.9	4085343	3.01E-10	4.36E-09	7.69E-08	7.69E-08	4.29E-08	2.01E-07	4.57E-11	6.64E-10	1.20E-08	1.20E-08	6.60E-09	3.13E-08	2.48E-11	3.59E-10	5.34E-09	5.34E-09	2.65E-09	1.37E-08
107	258522.3	4085353	3.13E-10	4.53E-09	7.99E-08	7.99E-08	4.46E-08	2.09E-07	4.75E-11	6.89E-10	1.25E-08	1.25E-08	6.86E-09	3.26E-08	2.58E-11	3.73E-10	5.55E-09	5.55E-09	2.75E-09	1.42E-08
108	258501.6	4085363	3.25E-10	4.70E-09	8.30E-08	8.30E-08	4.63E-08	2.17E-07	4.93E-11	7.16E-10	1.30E-08	1.30E-08	7.13E-09	3.38E-08	2.68E-11	3.88E-10	5.77E-09	5.77E-09	2.85E-09	1.48E-08
109	258481	4085372	3.37E-10	4.88E-09	8.61E-08	8.61E-08	4.80E-08	2.25E-07	5.12E-11	7.43E-10	1.34E-08	1.34E-08	7.39E-09	3.51E-08	2.78E-11	4.02E-10	5.98E-09	5.98E-09	2.96E-09	1.54E-08
110	258460.3	4085382	3.49E-10	5.04E-09	8.90E-08	8.90E-08	4.96E-08	2.33E-07	5.29E-11	7.68E-10	1.39E-08	1.39E-08	7.64E-09	3.63E-08	2.87E-11	4.16E-10	6.19E-09	6.19E-09	3.06E-09	1.59E-08
111	258439.7	4085391	3.60E-10	5.20E-09	9.19E-08	9.19E-08	5.12E-08	2.41E-07	5.46E-11	7.93E-10	1.44E-08	1.44E-08	7.89E-09	3.74E-08	2.97E-11	4.29E-10	6.38E-09	6.38E-09	3.16E-09	1.64E-08
112	258419	4085401	3.71E-10	5.37E-09	9.48E-08	9.48E-08	5.29E-08	2.48E-07	5.64E-11	8.18E-10	1.48E-08	1.48E-08	8.14E-09	3.86E-08	3.06E-11	4.43E-10	6.59E-09	6.59E-09	3.26E-09	1.69E-08
113	258398.4	4085410	3.83E-10	5.55E-09	9.79E-08	9.79E-08	5.46E-08	2.56E-07	5.82E-11	8.45E-10	1.53E-08	1.53E-08	8.41E-09	3.99E-08	3.16E-11	4.57E-10	6.80E-09	6.80E-09	3.37E-09	1.75E-08
114	258664.3	4085111	4.45E-10	6.44E-09	1.14E-07	1.14E-07	6.34E-08	2.98E-07	6.75E-11	9.80E-10	1.77E-08	1.77E-08	9.75E-09	4.63E-08	3.67E-11	5.30E-10	7.89E-09	7.89E-09	3.91E-09	2.03E-08

115	258663.6	4085087	4.87E-10	7.04E-09	1.24E-07	1.24E-07	6.93E-08	3.25E-07	7.38E-11	1.07E-09	1.94E-08	1.94E-08	1.07E-08	5.06E-08	4.01E-11	5.80E-10	8.63E-09	8.63E-09	4.27E-09	2.22E-08
116	258662.9	4085062	5.33E-10	7.71E-09	1.36E-07	1.36E-07	7.59E-08	3.57E-07	8.09E-11	1.18E-09	2.13E-08	2.13E-08	1.17E-08	5.55E-08	4.40E-11	6.36E-10	9.46E-09	9.46E-09	4.68E-09	2.43E-08
117	258662.2	4085037	5.85E-10	8.47E-09	1.49E-07	1.49E-07	8.33E-08	3.91E-07	8.88E-11	1.29E-09	2.33E-08	2.33E-08	1.28E-08	6.09E-08	4.82E-11	6.98E-10	1.04E-08	1.04E-08	5.14E-09	2.67E-08
118	258661.4	4085012	6.42E-10	9.28E-09	1.64E-07	1.64E-07	9.14E-08	4.29E-07	9.74E-11	1.41E-09	2.56E-08	2.56E-08	1.41E-08	6.68E-08	5.29E-11	7.65E-10	1.14E-08	1.14E-08	5.64E-09	2.92E-08
119	258660.7	4084988	7.02E-10	1.02E-08	1.79E-07	1.79E-07	9.99E-08	4.69E-07	1.07E-10	1.55E-09	2.80E-08	2.80E-08	1.54E-08	7.30E-08	5.78E-11	8.37E-10	1.25E-08	1.25E-08	6.16E-09	3.20E-08
120	258660	4084963	7.64E-10	1.10E-08	1.95E-07	1.95E-07	1.09E-07	5.11E-07	1.16E-10	1.68E-09	3.04E-08	3.04E-08	1.67E-08	7.94E-08	6.29E-11	9.10E-10	1.35E-08	1.35E-08	6.71E-09	3.48E-08
121	258659.3	4084938	8.25E-10	1.19E-08	2.11E-07	2.11E-07	1.17E-07	5.51E-07	1.25E-10	1.82E-09	3.29E-08	3.29E-08	1.81E-08	8.58E-08	6.80E-11	9.83E-10	1.46E-08	1.46E-08	7.24E-09	3.76E-08
122	258658.6	4084913	8.81E-10	1.27E-08	2.25E-07	2.25E-07	1.25E-07	5.89E-07	1.34E-10	1.94E-09	3.51E-08	3.51E-08	1.93E-08	9.17E-08	7.26E-11	1.05E-09	1.56E-08	1.56E-08	7.74E-09	4.01E-08
123	258756.1	4085130	3.02E-10	4.36E-09	7.71E-08	7.71E-08	4.30E-08	2.02E-07	4.58E-11	6.65E-10	1.20E-08	1.20E-08	6.61E-09	3.14E-08	2.49E-11	3.60E-10	5.35E-09	5.35E-09	2.65E-09	1.37E-08
124	258747.9	4085152	2.92E-10	4.22E-09	7.46E-08	7.46E-08	4.16E-08	1.95E-07	4.43E-11	6.43E-10	1.16E-08	1.16E-08	6.40E-09	3.04E-08	2.41E-11	3.48E-10	5.18E-09	5.18E-09	2.56E-09	1.33E-08
125	258739.6	4085174	2.82E-10	4.08E-09	7.20E-08	7.20E-08	4.01E-08	1.88E-07	4.28E-11	6.21E-10	1.12E-08	1.12E-08	6.18E-09	2.93E-08	2.32E-11	3.36E-10	5.00E-09	5.00E-09	2.47E-09	1.28E-08
126	258731.4	4085196	2.72E-10	3.93E-09	6.94E-08	6.94E-08	3.87E-08	1.82E-07	4.12E-11	5.98E-10	1.08E-08	1.08E-08	5.95E-09	2.82E-08	2.24E-11	3.24E-10	4.82E-09	4.82E-09	2.38E-09	1.24E-08
127	258723.2	4085218	2.61E-10	3.78E-09	6.67E-08	6.67E-08	3.72E-08	1.75E-07	3.97E-11	5.76E-10	1.04E-08	1.04E-08	5.73E-09	2.72E-08	2.15E-11	3.11E-10	4.64E-09	4.64E-09	2.29E-09	1.19E-08
128	258715	4085239	2.51E-10	3.63E-09	6.42E-08	6.42E-08	3.58E-08	1.68E-07	3.81E-11	5.54E-10	1.00E-08	1.00E-08	5.51E-09	2.61E-08	2.07E-11	2.99E-10	4.46E-09	4.46E-09	2.21E-09	1.14E-08
129	258706.8	4085261	2.41E-10	3.49E-09	6.17E-08	6.17E-08	3.44E-08	1.61E-07	3.66E-11	5.32E-10	9.63E-09	9.63E-09	5.29E-09	2.51E-08	1.99E-11	2.88E-10	4.28E-09	4.28E-09	2.12E-09	1.10E-08
130	258698.6	4085283	2.32E-10	3.36E-09	5.92E-08	5.92E-08	3.30E-08	1.55E-07	3.52E-11	5.11E-10	9.25E-09	9.25E-09	5.09E-09	2.41E-08	1.91E-11	2.77E-10	4.12E-09	4.12E-09	2.04E-09	1.06E-08
131	258690.4	4085305	2.23E-10	3.22E-09	5.69E-08	5.69E-08	3.17E-08	1.49E-07	3.38E-11	4.91E-10	8.88E-09	8.88E-09	4.88E-09	2.32E-08	1.84E-11	2.65E-10	3.95E-09	3.95E-09	1.96E-09	1.01E-08
132	258682.1	4085327	2.14E-10	3.09E-09	5.46E-08	5.46E-08	3.04E-08	1.43E-07	3.24E-11	4.71E-10	8.52E-09	8.52E-09	4.68E-09	2.22E-08	1.76E-11	2.55E-10	3.79E-09	3.79E-09	1.88E-09	9.73E-09
133	258673.9	4085349	2.06E-10	2.98E-09	5.26E-08	5.26E-08	2.93E-08	1.38E-07	3.13E-11	4.54E-10	8.22E-09	8.22E-09	4.52E-09	2.14E-08	1.70E-11	2.46E-10	3.66E-09	3.66E-09	1.81E-09	9.38E-09
134	258665.7	4085371	1.98E-10	2.87E-09	5.07E-08	5.07E-08	2.83E-08	1.33E-07	3.01E-11	4.37E-10	7.91E-09	7.91E-09	4.35E-09	2.06E-08	1.64E-11	2.37E-10	3.52E-09	3.52E-09	1.74E-09	9.04E-09
135	258636.3	4085402	1.97E-10	2.86E-09	5.04E-08	5.04E-08	2.81E-08	1.32E-07	3.00E-11	4.35E-10	7.87E-09	7.87E-09	4.33E-09	2.05E-08	1.63E-11	2.35E-10	3.50E-09	3.50E-09	1.73E-09	8.99E-09
136	258615.1	4085412	2.03E-10	2.94E-09	5.19E-08	5.19E-08	2.89E-08	1.36E-07	3.08E-11	4.48E-10	8.10E-09	8.10E-09	4.45E-09	2.11E-08	1.67E-11	2.42E-10	3.60E-09	3.60E-09	1.78E-09	9.25E-09
137	258594	4085422	2.10E-10	3.03E-09	5.35E-08	5.35E-08	2.98E-08	1.40E-07	3.18E-11	4.62E-10	8.35E-09	8.35E-09	4.59E-09	2.18E-08	1.73E-11	2.50E-10	3.72E-09	3.72E-09	1.84E-09	9.54E-09
138	258572.8	4085432	2.16E-10	3.13E-09	5.53E-08	5.53E-08	3.08E-08	1.45E-07	3.29E-11	4.77E-10	8.63E-09	8.63E-09	4.75E-09	2.25E-08	1.78E-11	2.58E-10	3.84E-09	3.84E-09	1.90E-09	9.86E-09
139	258551.6	4085441	2.24E-10	3.24E-09	5.72E-08	5.72E-08	3.19E-08	1.50E-07	3.40E-11	4.93E-10	8.93E-09	8.93E-09	4.91E-09	2.33E-08	1.84E-11	2.67E-10	3.97E-09	3.97E-09	1.97E-09	1.02E-08
140	258530.4	4085451	2.31E-10	3.34E-09	5.90E-08	5.90E-08	3.29E-08	1.55E-07	3.51E-11	5.09E-10	9.22E-09	9.22E-09	5.07E-09	2.40E-08	1.91E-11	2.76E-10	4.10E-09	4.10E-09	2.03E-09	1.05E-08
141	258509.2	4085461	2.38E-10	3.44E-09	6.08E-08	6.08E-08	3.39E-08	1.59E-07	3.61E-11	5.24E-10	9.49E-09	9.49E-09	5.22E-09	2.48E-08	1.96E-11	2.84E-10	4.22E-09	4.22E-09	2.09E-09	1.08E-08
142	258488.1	4085471	2.44E-10	3.54E-09	6.24E-08	6.24E-08	3.48E-08	1.63E-07	3.71E-11	5.39E-10	9.75E-09	9.75E-09	5.36E-09	2.54E-08	2.01E-11	2.91E-10	4.34E-09	4.34E-09	2.15E-09	1.11E-08
143	258466.9	4085481	2.51E-10	3.63E-09	6.40E-08	6.40E-08	3.57E-08	1.68E-07	3.80E-11	5.52E-10	9.99E-09	9.99E-09	5.49E-09	2.61E-08	2.07E-11	2.99E-10	4.45E-09	4.45E-09	2.20E-09	1.14E-08
144	258445.7	4085490	2.57E-10	3.72E-09	6.57E-08	6.57E-08	3.66E-08	1.72E-07	3.90E-11	5.66E-10	1.03E-08	1.03E-08	5.64E-09	2.67E-08	2.12E-11	3.06E-10	4.56E-09	4.56E-09	2.26E-09	1.17E-08
145	258424.5	4085500	2.64E-10	3.82E-09	6.74E-08	6.74E-08	3.76E-08	1.76E-07	4.01E-11	5.81E-10	1.05E-08	1.05E-08	5.79E-09	2.75E-08	2.18E-11	3.15E-10	4.68E-09	4.68E-09	2.32E-09	1.20E-08
146	258403.3	4085510	2.71E-10	3.92E-09	6.92E-08	6.92E-08	3.86E-08	1.81E-07	4.11E-11	5.97E-10	1.08E-08	1.08E-08	5.94E-09	2.82E-08	2.23E-11	3.23E-10	4.81E-09	4.81E-09	2.38E-09	1.23E-08
147	258764.3	4085108	3.11E-10	4.50E-09	7.95E-08	7.95E-08	4.43E-08	2.08E-07	4.72E-11	6.86E-10	1.24E-08	1.24E-08	6.83E-09	3.24E-08	2.57E-11	3.71E-10	5.52E-09	5.52E-09	2.73E-09	1.42E-08
148	258763.6	4085084	3.33E-10	4.82E-09	8.52E-08	8.52E-08	4.75E-08	2.23E-07	5.06E-11	7.35E-10	1.33E-08	1.33E-08	7.31E-09	3.47E-08	2.75E-11	3.98E-10	5.92E-09	5.92E-09	2.93E-09	1.52E-08
149	258762.8	4085059	3.58E-10	5.18E-09	9.14E-08	9.14E-08	5.10E-08	2.39E-07	5.43E-11	7.89E-10	1.43E-08	1.43E-08	7.85E-09	3.72E-08	2.95E-11	4.27E-10	6.35E-09	6.35E-09	3.14E-09	1.63E-08
150	258762.1	4085034	3.85E-10	5.56E-09	9.82E-08	9.82E-08	5.48E-08	2.57E-07	5.84E-11	8.48E-10	1.53E-08	1.53E-08	8.43E-09	4.00E-08	3.17E-11	4.59E-10	6.82E-09	6.82E-09	3.38E-09	1.75E-08
151	258761.4	4085009	4.14E-10	5.98E-09	1.06E-07	1.06E-07	5.89E-08	2.77E-07	6.28E-11	9.11E-10	1.65E-08	1.65E-08	9.07E-09	4.30E-08	3.41E-11	4.93E-10	7.34E-09	7.34E-09	3.63E-09	1.88E-08
152	258760.7	4084985	4.45E-10	6.43E-09	1.14E-07	1.14E-07	6.33E-08	2.97E-07	6.75E-11	9.80E-10	1.77E-08	1.77E-08	9.75E-09	4.63E-08	3.67E-11	5.30E-10	7.89E-09	7.89E-09	3.91E-09	2.03E-08
153	258760	4084960	4.78E-10	6.91E-09	1.22E-07	1.22E-07	6.81E-08	3.20E-07	7.25E-11	1.05E-09	1.91E-08	1.91E-08	1.05E-08	4.97E-08	3.94E-11	5.70E-10	8.48E-09	8.48E-09	4.20E-09	2.18E-08
154	258759.2	4084935	5.13E-10	7.41E-09	1.31E-07	1.31E-07	7.30E-08	3.43E-07	7.78E-11	1.13E-09	2.04E-08	2.04E-08	1.12E-08	5.33E-08	4.22E-11	6.11E-10	9.09E-09	9.09E-09	4.50E-09	2.33E-08
155	258758.5	4084910	5.47E-10	7.92E-09	1.40E-07	1.40E-07	7.79E-08	3.66E-07	8.31E-11	1.21E-09	2.18E-08	2.18E-08	1.20E-08	5.69E-08	4.51E-11	6.52E-10	9.71E-09	9.71E-09	4.81E-09	2.49E-08
156	258855.9	4085128	2.27E-10	3.28E-09	5.80E-08	5.80E-08	3.23E-08	1.52E-07	3.45E-11	5.00E-10	9.05E-09	9.05E-09	4.98E-09	2.36E-08	1.87E-11	2.71E-10	4.03E-09	4.03E-09	1.99E-09	1.03E-08
157	258847.6	4085150	2.21E-10	3.20E-09	5.65E-08	5.65E-08	3.15E-08	1.48E-07	3.36E-11	4.87E-10	8.82E-09	8.82E-09	4.85E-09	2.30E-08	1.82E-11	2.64E-10	3.92E-09	3.92E-09	1.94E-09	1.01E-08
158	258839.2	4085172	2.15E-10	3.11E-09	5.49E-08	5.49E-08	3.06E-08	1.44E-07	3.26E-11	4.74E-10	8.57E-09	8.57E-09	4.71E-09	2.24E-08	1.77E-11	2.56E-10	3.81E-09	3.81E-09	1.89E-09	9.79E-09
159	258830.9	4085194	2.09E-10	3.02E-09	5.33E-08	5.33E-08	2.97E-08	1.39E-07	3.16E-11	4.59E-10	8.31E-09	8.31E-09	4.57E-09	2.17E-08	1.72E-11	2.49E-10	3.70E-09	3.70E-09	1.83E-09	9.50E-09
160	258822.5	4085216	2.02E-10	2.92E-09	5.16E-08	5.16E-08	2.88E-08	1.35E-07	3.07E-11	4.45E-10	8.05E-09	8.05E-09	4.43E-09	2.10E-08	1.66E-11	2.41E-10	3.58E-09	3.58E-09	1.77E-09	9.20E-09
161	258814.2	4085239	1.96E-10	2.83E-09	4.99E-08	4.99E-08	2.78E-08	1.31E-07	2.97E-11	4.31E-10	7.80E-09	7.80E-09	4.29E-09	2.03E-08	1.61E-11	2.33E-10	3.47E-09	3.47E-09	1.72E-09	8.90E-09
162	258805.8	4085261	1.89E-10	2.74E-09	4.83E-08	4.83E-08	2.69E-08	1.27E-07	2.87E-11	4.17E-10	7.55E-09	7.55E-09	4.15E-09	1.97E-08	1.56E-11	2.26E-10	3.36E-09	3.36E-09	1.66E-09	8.62E-09
163	258797.5	4085283	1.83E-10	2.65E-09	4.68E-08	4.68E-08	2.61E-08	1.22E-07	2.78E-11	4.04E-10	7.30E-09	7.30E-09	4.02E-09	1.91E-08	1.51E-11	2.18E-10	3.25E-09	3.25E-09	1.61E-09	8.34E-09
164	258789.2	4085305	1.77E-10	2.56E-09	4.52E-08	4.52E-08	2.52E-08	1.18E-07	2.69E-11	3.90E-10	7.06E-09	7.06E-09	3.88E-09	1.84E-08	1.46E-11	2.11E-10	3.14E-09	3.14E-09	1.55E-09	8.06E-09
165	258780.8	4085327	1.70E-10	2.46E-09	4.35E-08	4.35E-08	2.42E-08	1.14E-07	2.58E-11	3.75E-10	6.79E-09	6.79E-09	3.73E-09	1.77E-08	1.40E-11	2.03E-10	3.02E-09	3.02E-09	1.49E-09	7.75E-09
166	258772.5	4085350	1.65E-10	2.38E-09	4.20E-08	4.20E-08	2.34E-08	1.10E-07	2.50E-11	3.63E-10	6.56E-09	6.56E-09	3.61E-09	1.71E-08	1.36E-11	1.96E-10	2.92E-09	2.92E-09	1.45E-09	7.49E-09
167	258764.1	4085372	1.59E-10	2.30E-09	4.07E-08	4.07E-08	2.27E-08	1.06E-07	2.42E-11	3.51E-10	6.35E-09	6.35E-09	3.49E-09	1.66E-08	1.31E-11	1.90E-10	2.82E-09	2.82E-09	1.40E-09	7.25E-09
168	258755.8	4085394	1.54E-10	2.23E-09	3.94E-08	3.94E-08	2.20E-08	1.03E-07	2.34E-11	3.40E-10	6.15E-09	6.15E-09	3.38E-09	1.60E-08	1.27E-11	1.84E-10	2.74E-09	2.74E-09	1.35E-09	7.02E-09
169	258747.4	4085416	1.49E-10	2.16E-09	3.82E-08	3.82E-08	2.13E-08	9.99E-08	2.27E-11	3.29E-10	5.96E-09	5.96E-09	3.28E-09	1.55E-08	1.23E-11	1.78E-10	2.65E-09	2.65E-09	1.31E-09	6.81E-09
170	258739.1	4085438	1.45E-10	2.10E-09	3.70E-08	3.70E-08	2.07E-08	9.70E-08	2.20E-11	3.20E-10	5.78E-09	5.78E-09	3.18E-09	1.51E-08	1.20E-11	1.73E-10	2.57E-09	2.57E-09	1.27E-09	6.61E-09
171	258709.2	4085470	1.44E-10	2.08E-09	3.68E-08	3.68E-08	2.05E-08	9.63E-08	2.19E-11	3.17E-10	5.74E-09	5.74E-09	3.16E-09	1.50E-08	1.19E-11	1.72E-10	2.56E-09	2.56E-09	1.27E-09	6.56E-09
172	258687.7	4085480	1.47E-10	2.13E-09	3.76E-08	3.76E-08	2.10E-08	9.85E-08	2.24E-11	3.25E-10	5.88E-09	5.88E-09	3.23E-09	1.53E-08	1.21E-11	1.76E-10	2.61E-09	2.61E-09	1.29E-09	6.71E-09
173	258666.2	4085490	1.51E-10	2.18E-09	3.86E-08	3.86E-08	2.15E-08	1.01E-07	2.29E-11	3.33E-10	6.02E-09	6.02E-09	3.31E-09	1.57E-08	1.24E-11	1.80E-10	2.68E-09	2.68E-09	1.33E-09	6.88E-09
174	258644.7	4085500	1.55E-10	2.24E-09	3.96E-08	3.96E-08	2.21E-08	1.04E-07	2.35E-11	3.42E-10	6.18E-09	6.18E-09	3.40E-09	1.61E-08	1.28E-11	1.85E-10	2.75E-09	2.75E-09	1.36E-09	7.06E-09
175	258623.2	4085510	1.60E-10	2.31E-09	4.08E-08	4.08E-08	2.27E-08	1.07E-07	2.42E-11	3.52E-10	6.36E-09	6.36E-09	3.50E-09	1.66E-08	1.32E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.27E-09
176	258601.7	4085520	1.65E-10	2.38E-09	4.20E-08	4.20E-08	2.34E-08	1.10E-07	2.50E-11	3.63E-10	6.56E-09	6.56E-09	3.61E-09	1.71E-08	1.36E-11	1.96E-10	2.92E-09	2.92E-09	1.45E-09	7.50E-09
177	258580.2	4085530	1.70E-10	2.45E-09	4.33E-08	4.33E-08	2.42E-08	1.13E-07	2.58E-11	3.74E-10	6.77E-09	6.77E-09	3.72E-09	1.77E-08	1.40E-11	2.02E-10	3.01E-09	3.01E-09	1.49E-09	7.73E-09
178	258558.7	4085540	1.75E-10	2.53E-09	4.47E-08	4.47E-08	2.49E-08	1.17E-07	2.65E-11	3.85E-10	6.97E-09	6.97E-09	3.83E-09	1.82E-08	1.44E-11	2.08E-10	3.10E-09	3.10E-09	1.54E-09	7.96E-09
179	258537.2	4085550	1.80E-10	2.60E-09	4.59E-08	4.59E-08	2.56E-08	1.20E-07	2.73E-11	3.96E-10	7.16E-09	7.16E-09	3.94E-09	1.87E-08	1.48E-11	2.14E-10	3.19E-09	3.19E-09	1.58E-09	8.18E-09
180	258515.7	4085560	1.84E-10	2.65E-09	4.69E-08	4.69E-08	2.61E-08	1.23E-07	2.79E-11	4.04E-10	7.32E-09	7.32E-09	4.02E-09	1.91E-08	1.51E-11	2.19E-10	3.26E-09	3.26E-09	1.61E-09	8.36E-09
181	258494.1	4085570	1.87E-10	2.71E-09	4.79E-08	4.79E-08	2.67E-08	1.25E-07	2.84E-11	4.13E-10	7.47E-09	7.47E-09	4.11E-09	1.95E-08	1.54E-11	2.23E-10	3.32E-09	3.32E-09	1.65E-09	8.53E-09
182	258472.6	4085580	1.91E-10	2.77E-09	4.89E-08	4.89E-08	2.73E-08	1.28E-07	2.90E-11	4.22E-10	7.63E-09	7.63E-09	4.20E-09	1.99E-08	1.58E-11	2.28E-10	3.40E-09	3.40E-09	1.68E-09	8.72E-09
183	258451.1	4085590	1.96E-10	2.83E-09	5.00E-08	5.00E-08	2.79E-08	1.31E-07	2.97E-11	4.31E-10	7.80E-09	7.80E-09	4.29E-09	2.04E-08	1.61E-11	2.33E-10	3.47E-09	3.47E-09	1.72E-09	8.91E-09
184	258429.6	4085600	2.00E-10	2.90E-09	5.12E-08	5.12E-08	2.85E-08	1.34E-07	3.04E-11	4.42E-10	7.99E-09	7.99E-09	4.39E-09	2.08E-08	1.65E-11	2.39E-10	3.56E-09	3.56E-09	1.76E-09	9.13E-09
185	258408.1	4085610	2.05E-10	2.97E-09	5.24E-08	5.24E-08	2.92E-08	1.37E-07	3.12E-11	4.52E-10	8.19E-09	8.19E-09	4.50E-09	2.14E-08	1.69E-11	2.45E-10	3.64E-09	3.64E-09	1.80E-09	9.35E-09
186	258864.3	4085106	2.33E-10	3.37E-09	5.94E-08	5.94E-08	3.31E-08	1.56E-07	3.53E-11	5.13E-10	9.28E-09	9.28E-09	5.10E-09	2.42E-08	1.92E-11	2.77E-10	4.13E-09	4.13E-09	2.04E-09	1.06E-08
187	258863.5	4085081	2.46E-10	3.56E-09	6.28E-08	6.28E-08	3.50E-08	1.64E-07	3.73E-11	5.42E-10	9.80E-09	9.80E-09	5.39E-09	2.56E-08	2.03E-11	2.93E-10	4.36E-09	4.36E-09	2.16E-09	1.12E-08
188	258862.8	4085056	2.60E-10	3.76E-09	6.64E-08	6.64E-08	3.70E-08	1.74E-07	3.95E-11	5.73E-10	1.04E-08	1.04E-08	5.70E-09	2.71E-08	2.14E-11	3.10E-10	4.62E-09	4.62E-09	2.28E-09	1.18E-08
189	258862.1	4085031	2.76E-10	3.99E-09	7.04E-08	7.04E-08	3.93E-08	1.84E-07	4.18E-11	6.08E-10	1.10E-08	1.10E-08	6.04E-09	2.87E-08	2.27E-11	3.29E-10	4.89E-09	4.89E-09	2.42E-09	1.26E-08
190	258861.4	4085007	2.93E-10	4.23E-09	7.47E-08	7.47E-08	4.17E-08	1.96E-07	4.44E-11	6.45E-10	1.17E-08	1.17E-08	6.41E-09	3.04E-08	2.41E-11	3.49E-10	5.19E-09	5.19E-09	2.57E-09	1.33E-08
191	258860.6	4084982	3.11E-10	4.50E-09	7.94E-08	7.94E-08	4.43E-08	2.08E-07	4.72E-11	6.85E-10	1.24E-08	1.24E-08	6.81E-09	3.23E-08	2.56E-11	3.71E-10	5.51E-09	5.51E-09	2.73E-09	1.42E-08
192	258859.9	4084957	3.30E-10	4.78E-09	8.44E-08	8.44E-08	4.71E-08	2.21E-07	5.01E-11	7.28E-10	1.32E-08	1.32E-08	7.24E-09	3.44E-08	2.72E-11	3.94E-10	5.86E-09	5.86E-09	2.90E-09	1.50E-08
193	258859.2	4084932	3.51E-10	5.08E-09	8.97E-08	8.97E-08	5.00E-08	2.35E-07	5.33E-11	7.74E-10	1.40E-08	1.40E-08	7.70E-09	3.66E-08	2.90E-11	4.19E-10	6.23E-09	6.23E-09	3.09E-09	1.60E-08
194	258858.5	4084907	3.73E-10	5.39E-09	9.53E-08	9.53E-08	5.31E-08	2.49E-07	5.66E-11	8.22E-10	1.49E-08	1.49E-08	8.18E-09	3.88E-08	3.07E-11	4.45E-10	6.62E-09	6.62E-09	3.28E-09	1.70E-08
195	258955.8	4085125	1.79E-10	2.59E-09	4.57E-08	4.57E-08	2.55E-08	1.20E-07	2.71E-11	3.94E-10	7.13E-09	7.13E-09	3.92E-09	1.86E-08	1.47E-11	2.13E-10	3.17E-09	3.17E-09	1.57E-09	8.15E-09
196	258947.3	4085147	1.75E-10	2.53E-09	4.47E-08	4.47E-08	2.49E-08	1.17E-07	2.66E-11	3.86E-10	6.98E-09	6.98E-09	3.84E-09	1.82E-08	1.44E-11	2.09E-10	3.11E-09	3.11E-09	1.54E-09	7.98E-09
197	258938.9	4085170	1.71E-10	2.47E-09	4.37E-08	4.37E-08	2.44E-08	1.14E-07	2.60E-11	3.77E-10	6.82E-09	6.82E-09	3.75E-09	1.78E-08	1.41E-11	2.04E-10	3.03E-09	3.03E-09	1.50E-09	7.79E-09
198	258930.5	4085192	1.67E-10	2.41E-09	4.26E-08	4.26E-08	2.37E-08	1.11E-07	2.53E-11	3.67E-10	6.65E-09	6.65E-09	3.65E-09	1.73E-08	1.37E-11	1.99E-10	2.96E-09	2.96E-09	1.46E-09	7.59E-09
199	258922.1	4085215	1.62E-10	2.35E-09	4.14E-08	4.14E-08	2.31E-08	1.08E-07	2.46E-11	3.57E-10	6.47E-09	6.47E-09	3.56E-09	1.69E-08	1.34E-11	1.93E-10	2.88E-09	2.88E-09	1.42E-09	7.39E-09
200	258913.6	4085237	1.58E-10	2.28E-09	4.03E-08	4.03E-08	2.24E-08	1.05E-07	2.39E-11	3.47E-10	6.29E-09	6.29E-09	3.46E-09	1.64E-08	1.30E-11	1.88E-10	2.80E-09	2.80E-09	1.38E-09	7.18E-09
201	258905.2	4085260	1.53E-10	2.22E-09	3.91E-08	3.91E-08	2.18E-08	1.02E-07	2.33E-11	3.38E-10	6.11E-09	6.11E-09	3.36E-09	1.59E-08	1.26E-11	1.83E-10	2.72E-09	2.72E-09	1.35E-09	6.98E-09
202	258896.8	4085282	1.49E-10	2.15E-09	3.79E-08	3.79E-08	2.11E-08	9.93E-08	2.25E-11	3.27E-10	5.92E-09	5.92E-09	3.26E-09	1.55E-08	1.22E-11	1.77E-10	2.64E-09	2.64E-09	1.30E-09	6.76E-09
203	258888.3	4085304	1.44E-10	2.08E-09	3.68E-08	3.68E-08	2.05E-08	9.62E-08	2.18E-11	3.17E-10	5.74E-09	5.74E-09	3.15E-09	1.50E-08	1.19E-11	1.72E-10	2.55E-09	2.55E-09	1.26E-09	6.55E-09
204	258879.9	4085327	1.40E-10	2.02E-09	3.58E-08	3.58E-08	1.99E-08	9.36E-08	2.12E-11	3.08E-10	5.58E-09	5.58E-09	3.07E-09	1.46E-08	1.15E-11	1.67E-10	2.48E-09	2.48E-09	1.23E-09	6.38E-09
205	258871.5	4085349	1.36E-10	1.97E-09	3.48E-08	3.48E-08	1.94E-08	9.11E-08	2.07E-11	3.00E-10	5.43E-09	5.43E-09	2.99E-09	1.42E-08	1.12E-11	1.62E-10	2.42E-09	2.42E-09	1.20E-09	6.20E-09
206	258863	4085372	1.32E-10	1.92E-09	3.38E-08	3.38E-08	1.89E-08	8.86E-08	2.01E-11	2.92E-10	5.28E-09	5.28E-09	2.90E-09	1.38E-08	1.09E-11	1.58E-10	2.35E-09	2.35E-09	1.16E-09	6.03E-09
207	258854.6	4085394	1.29E-10	1.86E-09	3.29E-08	3.29E-08	1.83E-08	8.61E-08	1.95E-11	2.84E-10	5.14E-09	5.14E-09	2.82E-09	1.34E-08	1.06E-11	1.54E-10	2.28E-09	2.28E-09	1.13E-09	5.87E-09
208	258846.2	4085416	1.25E-10	1.81E-09	3.20E-08	3.20E-08	1.78E-08	8.37E-08	1.90E-11	2.76E-10	4.99E-09	4.99E-09	2.75E-09	1.30E-08	1.03E-11	1.49E-10	2.22E-09	2.22E-09	1.10E-09	5.70E-09
209	258837.7	4085439	1.22E-10	1.76E-09	3.11E-08	3.11E-08	1.73E-08	8.14E-08	1.85E-11	2.68E-10	4.85E-09	4.85E-09	2.67E-09	1.27E-08	1.00E-11	1.45E-10	2.16E-09	2.16E-09	1.07E-09	5.54E-09
210	258829.3	4085461	1.18E-10	1.71E-09	3.03E-08	3.03E-08	1.69E-08	7.92E-08	1.80E-11	2.61E-10	4.73E-09	4.73E-09	2.60E-09	1.23E-08	9.77E-12	1.41E-10	2.10E-09	2.10E-09	1.04E-09	5.40E-09
211	258820.9	4085484	1.15E-10	1.67E-09	2.95E-08	2.95E-08	1.64E-08	7.72E-08	1.75E-11	2.54E-10	4.60E-09	4.60E-09	2.53E-09	1.20E-08	9.51E-12	1.38E-10	2.05E-09	2.05E-09	1.01E-09	5.26E-09
212	258812.4	4085506	1.13E-10	1.63E-09	2.87E-08	2.87E-08	1.60E-08	7.52E-08	1.71E-11	2.48E-10	4.49E-09	4.49E-09	2.47E-09	1.17E-08	9.28E-12	1.34E-10	2.00E-09	2.00E-09	9.88E-10	5.12E-09
213	258782.3	4085539	1.12E-10	1.62E-09	2.86E-08	2.86E-08	1.59E-08	7.48E-08	1.70E-11	2.47E-10	4.46E-09	4.46E-09	2.45E-09	1.16E-08	9.22E-12	1.33E-10	1.99E-09	1.99E-09	9.83E-10	5.10E-09
214	258760.5	4085549	1.14E-10	1.65E-09	2.91E-08	2.91E-08	1.62E-08	7.63E-08	1.73E-11	2.51E-10	4.55E-09	4.55E-09	2.50E-09	1.19E-08	9.40E-12	1.36E-10	2.02E-09	2.02E-09	1.00E-09	5.19E-09
215	258738.8	4085559	1.16E-10	1.68E-09	2.97E-08	2.97E-08	1.66E-08	7.78E-08	1.77E-11	2.56E-10	4.64E-09	4.64E-09	2.55E-09	1.21E-08	9.59E-12	1.39E-10	2.06E-09	2.06E-09	1.02E-09	5.30E-09
216	258717.1	4085569	1.19E-10	1.72E-09	3.04E-08	3.04E-08	1.69E-08	7.95E-08	1.80E-11	2.62E-10	4.74E-09	4.74E-09	2.61E-09	1.24E-08	9.80E-12	1.42E-10	2.11E-09	2.11E-09	1.04E-09	5.41E-09
217	258695.3	4085579	1.22E-10	1.76E-09	3.11E-08	3.11E-08	1.73E-08	8.14E-08	1.85E-11	2.68E-10	4.85E-09	4.85E-09	2.67E-09	1.27E-08	1.00E-11	1.45E-10	2.16E-09	2.16E-09	1.07E-09	5.54E-09
218	258673.6	4085589	1.25E-10	1.81E-09	3.19E-08	3.19E-08	1.78E-08	8.35E-08	1.89E-11	2.75E-10	4.98E-09	4.98E-09	2.74E-09	1.30E-08	1.03E-11	1.49E-10	2.21E-09	2.21E-09	1.10E-09	5.68E-09
219	258651.9	4085599	1.28E-10	1.85E-09	3.28E-08	3.28E-08	1.83E-08	8.57E-08	1.95E-11	2.83E-10	5.11E-09	5.11E-09	2.81E-09	1.33E-08	1.06E-11	1.53E-10	2.28E-09	2.28E-09	1.13E-09	5.84E-09
220	258630.1	4085609	1.32E-10	1.91E-09	3.36E-08	3.36E-08	1.88E-08	8.81E-08	2.00E-11	2.90E-10	5.25E-09	5.25E-09	2.89E-09	1.37E-08	1.09E-11	1.57E-10	2.34E-09	2.34E-09	1.16E-09	6.00E-09
221	258608.4	4085619	1.35E-10	1.96E-09	3.45E-08	3.45E-08	1.93E-08	9.04E-08	2.05E-11	2.98E-10	5.39E-09	5.39E-09	2.96E-09	1.41E-08	1.11E-11	1.61E-10	2.40E-09	2.40E-09	1.19E-09	6.16E-09
222	258586.6	4085629	1.38E-10	2.00E-09	3.53E-08	3.53E-08	1.97E-08	9.25E-08	2.10E-11	3.05E-10	5.52E-09	5.52E-09	3.03E-09	1.44E-08	1.14E-11	1.65E-10	2.46E-09	2.46E-09	1.22E-09	6.30E-09
223	258564.9	4085639	1.42E-10	2.05E-09	3.62E-08	3.62E-08	2.02E-08	9.47E-08	2.15E-11	3.12E-10	5.65E-09	5.65E-09	3.10E-09	1.47E-08	1.17E-11	1.69E-10	2.51E-09	2.51E-09	1.24E-09	6.45E-09
224	258543.2	4085649	1.44E-10	2.09E-09	3.68E-08	3.68E-08	2.05E-08	9.65E-08	2.19E-11	3.18E-10	5.75E-09	5.75E-09	3.16E-09	1.50E-08	1.19E-11	1.72E-10	2.56E-09	2.56E-09	1.27E-09	6.57E-09
225	258521.4	4085659	1.47E-10	2.12E-09	3.74E-08	3.74E-08	2.09E-08	9.80E-08	2.22E-11	3.23E-10	5.84E-09	5.84E-09	3.21E-09	1.52E-08	1.21E-11	1.75E-10	2.60E-09	2.60E-09	1.29E-09	6.67E-09
226	258499.7	4085669	1.50E-10	2.16E-09	3.82E-08	3.82E-08	2.13E-08	1.00E-07	2.27E-11	3.30E-10	5.97E-09	5.97E-09	3.28E-09	1.56E-08	1.23E-11	1.78E-10	2.66E-09	2.66E-09	1.31E-09	6.82E-09
227	258478	4085679	1.53E-10	2.21E-09	3.90E-08	3.90E-08	2.17E-08	1.02E-07	2.32E-11	3.36E-10	6.08E-09	6.08E-09	3.34E-09	1.59E-08	1.26E-11	1.82E-10	2.71E-09	2.71E-09	1.34E-09	6.95E-09
228	258456.2	4085689	1.55E-10	2.25E-09	3.97E-08	3.97E-08	2.21E-08	1.04E-07	2.36E-11	3.42E-10	6.20E-09	6.20E-09	3.41E-09	1.62E-08	1.28E-11	1.85E-10	2.76E-09	2.76E-09	1.37E-09	7.08E-09
229	258434.5	4085699	1.59E-10	2.30E-09	4.06E-08	4.06E-08	2.26E-08	1.06E-07	2.41E-11	3.50E-10	6.34E-09	6.34E-09	3.48E-09	1.65E-08	1.31E-11	1.89E-10	2.82E-09	2.82E-09	1.40E-09	7.24E-09
230	258412.8	4085709	1.63E-10	2.35E-09	4.15E-08	4.15E-08	2.32E-08	1.09E-07	2.47E-11	3.58E-10	6.48E-09	6.48E-09	3.56E-09	1.69E-08	1.34E-11	1.94E-10	2.89E-09	2.89E-09	1.43E-09	7.41E-09
231	258964.2	4085103	1.82E-10	2.64E-09	4.66E-08	4.66E-08	2.60E-08	1.22E-07	2.77E-11	4.02E-10	7.27E-09	7.27E-09	4.00E-09	1.90E-08	1.50E-11	2.17E-10	3.24E-09	3.24E-09	1.60E-09	8.31E-09
232	258963.5	4085078	1.91E-10	2.76E-09	4.87E-08	4.87E-08	2.72E-08	1.28E-07	2.89E-11	4.20E-10	7.61E-09	7.61E-09	4.18E-09	1.98E-08	1.57E-11	2.27E-10	3.38E-09	3.38E-09	1.68E-09	8.69E-09

233	258962.8	4085053	2.00E-10	2.89E-09	5.10E-08	5.10E-08	2.84E-08	1.34E-07	3.03E-11	4.40E-10	7.97E-09	7.97E-09	4.38E-09	2.08E-08	1.65E-11	2.38E-10	3.54E-09	3.54E-09	1.75E-09	9.10E-09
234	258962	4085028	2.10E-10	3.03E-09	5.35E-08	5.35E-08	2.99E-08	1.40E-07	3.18E-11	4.62E-10	8.36E-09	8.36E-09	4.60E-09	2.18E-08	1.73E-11	2.50E-10	3.72E-09	3.72E-09	1.84E-09	9.55E-09
235	258961.3	4085004	2.20E-10	3.19E-09	5.63E-08	5.63E-08	3.14E-08	1.47E-07	3.35E-11	4.86E-10	8.79E-09	8.79E-09	4.83E-09	2.29E-08	1.82E-11	2.63E-10	3.91E-09	3.91E-09	1.94E-09	1.00E-08
236	258960.6	4084979	2.32E-10	3.36E-09	5.93E-08	5.93E-08	3.31E-08	1.55E-07	3.52E-11	5.11E-10	9.26E-09	9.26E-09	5.09E-09	2.42E-08	1.91E-11	2.77E-10	4.12E-09	4.12E-09	2.04E-09	1.06E-08
237	258959.9	4084954	2.45E-10	3.54E-09	6.25E-08	6.25E-08	3.48E-08	1.64E-07	3.71E-11	5.39E-10	9.76E-09	9.76E-09	5.37E-09	2.55E-08	2.02E-11	2.92E-10	4.34E-09	4.34E-09	2.15E-09	1.11E-08
238	258959.2	4084929	2.58E-10	3.73E-09	6.60E-08	6.60E-08	3.68E-08	1.73E-07	3.92E-11	5.69E-10	1.03E-08	1.03E-08	5.66E-09	2.69E-08	2.13E-11	3.08E-10	4.58E-09	4.58E-09	2.27E-09	1.18E-08
239	258958.4	4084905	2.72E-10	3.94E-09	6.96E-08	6.96E-08	3.88E-08	1.82E-07	4.13E-11	6.00E-10	1.09E-08	1.09E-08	5.97E-09	2.83E-08	2.25E-11	3.25E-10	4.83E-09	4.83E-09	2.39E-09	1.24E-08
240	259055.7	4085122	1.46E-10	2.11E-09	3.73E-08	3.73E-08	2.08E-08	9.75E-08	2.21E-11	3.21E-10	5.82E-09	5.82E-09	3.20E-09	1.52E-08	1.20E-11	1.74E-10	2.59E-09	2.59E-09	1.28E-09	6.64E-09
241	259047.2	4085145	1.43E-10	2.07E-09	3.66E-08	3.66E-08	2.04E-08	9.59E-08	2.18E-11	3.16E-10	5.72E-09	5.72E-09	3.14E-09	1.49E-08	1.18E-11	1.71E-10	2.54E-09	2.54E-09	1.26E-09	6.53E-09
242	259038.7	4085167	1.41E-10	2.03E-09	3.59E-08	3.59E-08	2.00E-08	9.41E-08	2.14E-11	3.10E-10	5.61E-09	5.61E-09	3.08E-09	1.46E-08	1.16E-11	1.68E-10	2.50E-09	2.50E-09	1.24E-09	6.41E-09
243	259030.2	4085190	1.37E-10	1.99E-09	3.51E-08	3.51E-08	1.96E-08	9.19E-08	2.09E-11	3.03E-10	5.48E-09	5.48E-09	3.01E-09	1.43E-08	1.13E-11	1.64E-10	2.44E-09	2.44E-09	1.21E-09	6.26E-09
244	259021.7	4085213	1.34E-10	1.93E-09	3.42E-08	3.42E-08	1.90E-08	8.94E-08	2.03E-11	2.95E-10	5.33E-09	5.33E-09	2.93E-09	1.39E-08	1.10E-11	1.59E-10	2.37E-09	2.37E-09	1.17E-09	6.09E-09
245	259013.2	4085235	1.30E-10	1.88E-09	3.33E-08	3.33E-08	1.85E-08	8.71E-08	1.98E-11	2.87E-10	5.19E-09	5.19E-09	2.86E-09	1.36E-08	1.07E-11	1.55E-10	2.31E-09	2.31E-09	1.14E-09	5.93E-09
246	259004.7	4085258	1.27E-10	1.83E-09	3.24E-08	3.24E-08	1.81E-08	8.48E-08	1.93E-11	2.80E-10	5.06E-09	5.06E-09	2.78E-09	1.32E-08	1.05E-11	1.51E-10	2.25E-09	2.25E-09	1.11E-09	5.78E-09
247	258996.2	4085280	1.24E-10	1.79E-09	3.16E-08	3.16E-08	1.76E-08	8.26E-08	1.88E-11	2.72E-10	4.93E-09	4.93E-09	2.71E-09	1.29E-08	1.02E-11	1.47E-10	2.19E-09	2.19E-09	1.09E-09	5.63E-09
248	258987.7	4085303	1.21E-10	1.74E-09	3.08E-08	3.08E-08	1.72E-08	8.06E-08	1.83E-11	2.66E-10	4.81E-09	4.81E-09	2.64E-09	1.25E-08	9.94E-12	1.44E-10	2.14E-09	2.14E-09	1.06E-09	5.49E-09
249	258979.2	4085326	1.18E-10	1.70E-09	3.00E-08	3.00E-08	1.67E-08	7.86E-08	1.78E-11	2.59E-10	4.69E-09	4.69E-09	2.58E-09	1.22E-08	9.69E-12	1.40E-10	2.09E-09	2.09E-09	1.03E-09	5.36E-09
250	258970.7	4085348	1.15E-10	1.66E-09	2.93E-08	2.93E-08	1.64E-08	7.68E-08	1.74E-11	2.53E-10	4.58E-09	4.58E-09	2.52E-09	1.20E-08	9.47E-12	1.37E-10	2.04E-09	2.04E-09	1.01E-09	5.23E-09
251	258962.2	4085371	1.12E-10	1.62E-09	2.87E-08	2.87E-08	1.60E-08	7.51E-08	1.70E-11	2.47E-10	4.48E-09	4.48E-09	2.46E-09	1.17E-08	9.25E-12	1.34E-10	1.99E-09	1.99E-09	9.86E-10	5.11E-09
252	258953.7	4085393	1.10E-10	1.59E-09	2.80E-08	2.80E-08	1.56E-08	7.33E-08	1.66E-11	2.42E-10	4.37E-09	4.37E-09	2.40E-09	1.14E-08	9.04E-12	1.31E-10	1.95E-09	1.95E-09	9.63E-10	4.99E-09
253	258945.2	4085416	1.07E-10	1.55E-09	2.74E-08	2.74E-08	1.53E-08	7.16E-08	1.63E-11	2.36E-10	4.27E-09	4.27E-09	2.35E-09	1.11E-08	8.83E-12	1.28E-10	1.90E-09	1.90E-09	9.41E-10	4.88E-09
254	258936.7	4085438	1.05E-10	1.51E-09	2.67E-08	2.67E-08	1.49E-08	6.99E-08	1.59E-11	2.30E-10	4.17E-09	4.17E-09	2.29E-09	1.09E-08	8.62E-12	1.25E-10	1.86E-09	1.86E-09	9.19E-10	4.76E-09
255	258928.2	4085461	1.02E-10	1.48E-09	2.61E-08	2.61E-08	1.45E-08	6.83E-08	1.55E-11	2.25E-10	4.07E-09	4.07E-09	2.24E-09	1.06E-08	8.41E-12	1.22E-10	1.81E-09	1.81E-09	8.96E-10	4.65E-09
256	258919.8	4085484	9.96E-11	1.44E-09	2.54E-08	2.54E-08	1.42E-08	6.66E-08	1.51E-11	2.19E-10	3.97E-09	3.97E-09	2.18E-09	1.04E-08	8.21E-12	1.19E-10	1.77E-09	1.77E-09	8.75E-10	4.54E-09
257	258911.3	4085506	9.72E-11	1.41E-09	2.48E-08	2.48E-08	1.38E-08	6.50E-08	1.48E-11	2.14E-10	3.88E-09	3.88E-09	2.13E-09	1.01E-08	8.02E-12	1.16E-10	1.73E-09	1.73E-09	8.54E-10	4.43E-09
258	258902.8	4085529	9.50E-11	1.37E-09	2.43E-08	2.43E-08	1.35E-08	6.35E-08	1.44E-11	2.09E-10	3.79E-09	3.79E-09	2.08E-09	9.88E-09	7.83E-12	1.13E-10	1.69E-09	1.69E-09	8.34E-10	4.33E-09
259	258894.3	4085551	9.28E-11	1.34E-09	2.37E-08	2.37E-08	1.32E-08	6.21E-08	1.41E-11	2.05E-10	3.70E-09	3.70E-09	2.04E-09	9.66E-09	7.65E-12	1.11E-10	1.65E-09	1.65E-09	8.15E-10	4.23E-09
260	258885.8	4085574	9.09E-11	1.31E-09	2.32E-08	2.32E-08	1.29E-08	6.08E-08	1.38E-11	2.00E-10	3.62E-09	3.62E-09	1.99E-09	9.46E-09	7.49E-12	1.08E-10	1.61E-09	1.61E-09	7.98E-10	4.14E-09
261	258855.4	4085607	9.04E-11	1.31E-09	2.31E-08	2.31E-08	1.29E-08	6.05E-08	1.37E-11	1.99E-10	3.61E-09	3.61E-09	1.98E-09	9.41E-09	7.45E-12	1.08E-10	1.60E-09	1.60E-09	7.94E-10	4.12E-09
262	258833.5	4085617	9.19E-11	1.33E-09	2.35E-08	2.35E-08	1.31E-08	6.14E-08	1.39E-11	2.02E-10	3.66E-09	3.66E-09	2.01E-09	9.56E-09	7.57E-12	1.10E-10	1.63E-09	1.63E-09	8.07E-10	4.18E-09
263	258811.6	4085627	9.35E-11	1.35E-09	2.39E-08	2.39E-08	1.33E-08	6.25E-08	1.42E-11	2.06E-10	3.73E-09	3.73E-09	2.05E-09	9.73E-09	7.71E-12	1.11E-10	1.66E-09	1.66E-09	8.21E-10	4.26E-09
264	258789.7	4085637	9.51E-11	1.38E-09	2.43E-08	2.43E-08	1.35E-08	6.36E-08	1.44E-11	2.10E-10	3.79E-09	3.79E-09	2.09E-09	9.90E-09	7.84E-12	1.13E-10	1.69E-09	1.69E-09	8.36E-10	4.33E-09
265	258767.8	4085647	9.70E-11	1.40E-09	2.48E-08	2.48E-08	1.38E-08	6.48E-08	1.47E-11	2.14E-10	3.87E-09	3.87E-09	2.13E-09	1.01E-08	7.99E-12	1.16E-10	1.72E-09	1.72E-09	8.52E-10	4.42E-09
266	258745.9	4085657	9.90E-11	1.43E-09	2.53E-08	2.53E-08	1.41E-08	6.62E-08	1.50E-11	2.18E-10	3.95E-09	3.95E-09	2.17E-09	1.03E-08	8.16E-12	1.18E-10	1.76E-09	1.76E-09	8.70E-10	4.51E-09
267	258724	4085667	1.01E-10	1.47E-09	2.59E-08	2.59E-08	1.44E-08	6.78E-08	1.54E-11	2.23E-10	4.04E-09	4.04E-09	2.22E-09	1.05E-08	8.36E-12	1.21E-10	1.80E-09	1.80E-09	8.90E-10	4.62E-09
268	258702.1	4085678	1.04E-10	1.50E-09	2.65E-08	2.65E-08	1.48E-08	6.95E-08	1.58E-11	2.29E-10	4.14E-09	4.14E-09	2.28E-09	1.08E-08	8.57E-12	1.24E-10	1.84E-09	1.84E-09	9.13E-10	4.73E-09
269	258680.2	4085688	1.07E-10	1.54E-09	2.72E-08	2.72E-08	1.52E-08	7.13E-08	1.62E-11	2.35E-10	4.25E-09	4.25E-09	2.34E-09	1.11E-08	8.79E-12	1.27E-10	1.89E-09	1.89E-09	9.36E-10	4.86E-09
270	258658.3	4085698	1.09E-10	1.58E-09	2.79E-08	2.79E-08	1.56E-08	7.31E-08	1.66E-11	2.41E-10	4.36E-09	4.36E-09	2.40E-09	1.14E-08	9.01E-12	1.30E-10	1.94E-09	1.94E-09	9.60E-10	4.98E-09
271	258636.4	4085708	1.12E-10	1.62E-09	2.86E-08	2.86E-08	1.59E-08	7.48E-08	1.70E-11	2.47E-10	4.46E-09	4.46E-09	2.45E-09	1.16E-08	9.23E-12	1.33E-10	1.99E-09	1.99E-09	9.83E-10	5.10E-09
272	258614.5	4085718	1.14E-10	1.65E-09	2.92E-08	2.92E-08	1.63E-08	7.64E-08	1.73E-11	2.52E-10	4.56E-09	4.56E-09	2.50E-09	1.19E-08	9.42E-12	1.36E-10	2.03E-09	2.03E-09	1.00E-09	5.20E-09
273	258592.6	4085728	1.16E-10	1.68E-09	2.97E-08	2.97E-08	1.66E-08	7.78E-08	1.77E-11	2.56E-10	4.64E-09	4.64E-09	2.55E-09	1.21E-08	9.59E-12	1.39E-10	2.06E-09	2.06E-09	1.02E-09	5.30E-09
274	258570.7	4085738	1.18E-10	1.71E-09	3.02E-08	3.02E-08	1.68E-08	7.91E-08	1.79E-11	2.61E-10	4.72E-09	4.72E-09	2.59E-09	1.23E-08	9.75E-12	1.41E-10	2.10E-09	2.10E-09	1.04E-09	5.39E-09
275	258548.8	4085749	1.20E-10	1.74E-09	3.07E-08	3.07E-08	1.71E-08	8.03E-08	1.82E-11	2.65E-10	4.79E-09	4.79E-09	2.63E-09	1.25E-08	9.90E-12	1.43E-10	2.13E-09	2.13E-09	1.06E-09	5.47E-09
276	258526.8	4085759	1.22E-10	1.77E-09	3.12E-08	3.12E-08	1.74E-08	8.17E-08	1.85E-11	2.69E-10	4.87E-09	4.87E-09	2.68E-09	1.27E-08	1.01E-11	1.46E-10	2.17E-09	2.17E-09	1.07E-09	5.56E-09
277	258504.9	4085769	1.24E-10	1.80E-09	3.18E-08	3.18E-08	1.77E-08	8.32E-08	1.89E-11	2.74E-10	4.96E-09	4.96E-09	2.73E-09	1.29E-08	1.03E-11	1.48E-10	2.21E-09	2.21E-09	1.09E-09	5.67E-09
278	258483	4085779	1.27E-10	1.83E-09	3.24E-08	3.24E-08	1.81E-08	8.48E-08	1.92E-11	2.79E-10	5.06E-09	5.06E-09	2.78E-09	1.32E-08	1.05E-11	1.51E-10	2.25E-09	2.25E-09	1.11E-09	5.77E-09
279	258461.1	4085789	1.29E-10	1.87E-09	3.31E-08	3.31E-08	1.84E-08	8.65E-08	1.96E-11	2.85E-10	5.16E-09	5.16E-09	2.84E-09	1.35E-08	1.07E-11	1.54E-10	2.30E-09	2.30E-09	1.14E-09	5.89E-09
280	258439.2	4085799	1.32E-10	1.91E-09	3.38E-08	3.38E-08	1.88E-08	8.84E-08	2.01E-11	2.91E-10	5.27E-09	5.27E-09	2.90E-09	1.38E-08	1.09E-11	1.58E-10	2.35E-09	2.35E-09	1.16E-09	6.02E-09
281	258417.3	4085809	1.35E-10	1.95E-09	3.45E-08	3.45E-08	1.92E-08	9.03E-08	2.05E-11	2.97E-10	5.38E-09	5.38E-09	2.96E-09	1.40E-08	1.11E-11	1.61E-10	2.39E-09	2.39E-09	1.19E-09	6.15E-09
282	259064.2	4085100	1.48E-10	2.14E-09	3.78E-08	3.78E-08	2.11E-08	9.90E-08	2.25E-11	3.26E-10	5.91E-09	5.91E-09	3.25E-09	1.54E-08	1.22E-11	1.77E-10	2.63E-09	2.63E-09	1.30E-09	6.74E-09
283	259063.4	4085075	1.54E-10	2.22E-09	3.92E-08	3.92E-08	2.19E-08	1.03E-07	2.33E-11	3.39E-10	6.13E-09	6.13E-09	3.37E-09	1.60E-08	1.27E-11	1.83E-10	2.73E-09	2.73E-09	1.35E-09	7.00E-09
284	259062.7	4085050	1.60E-10	2.31E-09	4.08E-08	4.08E-08	2.27E-08	1.07E-07	2.42E-11	3.52E-10	6.37E-09	6.37E-09	3.50E-09	1.66E-08	1.32E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.27E-09
285	259062	4085025	1.66E-10	2.41E-09	4.25E-08	4.25E-08	2.37E-08	1.11E-07	2.53E-11	3.67E-10	6.64E-09	6.64E-09	3.65E-09	1.73E-08	1.37E-11	1.98E-10	2.95E-09	2.95E-09	1.46E-09	7.58E-09
286	259061.3	4085001	1.74E-10	2.51E-09	4.44E-08	4.44E-08	2.47E-08	1.16E-07	2.64E-11	3.83E-10	6.93E-09	6.93E-09	3.81E-09	1.81E-08	1.43E-11	2.07E-10	3.08E-09	3.08E-09	1.53E-09	7.92E-09
287	259060.6	4084976	1.82E-10	2.63E-09	4.65E-08	4.65E-08	2.59E-08	1.22E-07	2.76E-11	4.01E-10	7.25E-09	7.25E-09	3.99E-09	1.89E-08	1.50E-11	2.17E-10	3.23E-09	3.23E-09	1.60E-09	8.28E-09
288	259059.8	4084951	1.91E-10	2.76E-09	4.87E-08	4.87E-08	2.71E-08	1.27E-07	2.89E-11	4.20E-10	7.60E-09	7.60E-09	4.18E-09	1.98E-08	1.57E-11	2.27E-10	3.38E-09	3.38E-09	1.67E-09	8.68E-09
289	259059.1	4084926	2.00E-10	2.89E-09	5.10E-08	5.10E-08	2.85E-08	1.34E-07	3.03E-11	4.40E-10	7.97E-09	7.97E-09	4.38E-09	2.08E-08	1.65E-11	2.38E-10	3.55E-09	3.55E-09	1.76E-09	9.10E-09
290	259058.4	4084902	2.10E-10	3.03E-09	5.35E-08	5.35E-08	2.98E-08	1.40E-07	3.18E-11	4.62E-10	8.36E-09	8.36E-09	4.59E-09	2.18E-08	1.73E-11	2.50E-10	3.72E-09	3.72E-09	1.84E-09	9.54E-09
291	259255.5	4085117	1.04E-10	1.51E-09	2.67E-08	2.67E-08	1.49E-08	6.98E-08	1.58E-11	2.30E-10	4.16E-09	4.16E-09	2.29E-09	1.09E-08	8.61E-12	1.25E-10	1.85E-09	1.85E-09	9.17E-10	4.76E-09
292	259246.9	4085139	1.03E-10	1.50E-09	2.64E-08	2.64E-08	1.47E-08	6.92E-08	1.57E-11	2.28E-10	4.12E-09	4.12E-09	2.27E-09	1.08E-08	8.53E-12	1.23E-10	1.84E-09	1.84E-09	9.08E-10	4.71E-09
293	259238.3	4085162	1.02E-10	1.48E-09	2.61E-08	2.61E-08	1.46E-08	6.83E-08	1.55E-11	2.25E-10	4.08E-09	4.08E-09	2.24E-09	1.06E-08	8.43E-12	1.22E-10	1.81E-09	1.81E-09	8.98E-10	4.65E-09
294	259229.8	4085185	1.01E-10	1.46E-09	2.57E-08	2.57E-08	1.43E-08	6.73E-08	1.53E-11	2.22E-10	4.01E-09	4.01E-09	2.21E-09	1.05E-08	8.29E-12	1.20E-10	1.79E-09	1.79E-09	8.84E-10	4.58E-09
295	259221.2	4085208	9.85E-11	1.42E-09	2.52E-08	2.52E-08	1.40E-08	6.59E-08	1.50E-11	2.17E-10	3.93E-09	3.93E-09	2.16E-09	1.02E-08	8.12E-12	1.17E-10	1.75E-09	1.75E-09	8.65E-10	4.49E-09
296	259212.6	4085231	9.65E-11	1.40E-09	2.46E-08	2.46E-08	1.37E-08	6.45E-08	1.46E-11	2.13E-10	3.85E-09	3.85E-09	2.12E-09	1.00E-08	7.95E-12	1.15E-10	1.71E-09	1.71E-09	8.47E-10	4.39E-09
297	259204	4085254	9.44E-11	1.36E-09	2.41E-08	2.41E-08	1.34E-08	6.31E-08	1.43E-11	2.08E-10	3.76E-09	3.76E-09	2.07E-09	9.82E-09	7.78E-12	1.12E-10	1.67E-09	1.67E-09	8.29E-10	4.30E-09
298	259195.4	4085276	9.22E-11	1.33E-09	2.35E-08	2.35E-08	1.31E-08	6.16E-08	1.40E-11	2.03E-10	3.68E-09	3.68E-09	2.02E-09	9.59E-09	7.60E-12	1.10E-10	1.64E-09	1.64E-09	8.10E-10	4.20E-09
299	259186.8	4085299	9.00E-11	1.30E-09	2.30E-08	2.30E-08	1.28E-08	6.02E-08	1.37E-11	1.98E-10	3.59E-09	3.59E-09	1.97E-09	9.37E-09	7.42E-12	1.07E-10	1.60E-09	1.60E-09	7.91E-10	4.10E-09
300	259178.3	4085322	8.80E-11	1.27E-09	2.25E-08	2.25E-08	1.25E-08	5.89E-08	1.34E-11	1.94E-10	3.51E-09	3.51E-09	1.93E-09	9.16E-09	7.26E-12	1.05E-10	1.56E-09	1.56E-09	7.73E-10	4.01E-09
301	259169.7	4085345	8.61E-11	1.25E-09	2.20E-08	2.20E-08	1.23E-08	5.76E-08	1.31E-11	1.90E-10	3.44E-09	3.44E-09	1.89E-09	8.96E-09	7.10E-12	1.03E-10	1.53E-09	1.53E-09	7.57E-10	3.92E-09
302	259161.1	4085368	8.44E-11	1.22E-09	2.16E-08	2.16E-08	1.20E-08	5.65E-08	1.28E-11	1.86E-10	3.37E-09	3.37E-09	1.85E-09	8.78E-09	6.96E-12	1.01E-10	1.50E-09	1.50E-09	7.41E-10	3.85E-09
303	259152.5	4085390	8.28E-11	1.20E-09	2.12E-08	2.12E-08	1.18E-08	5.54E-08	1.26E-11	1.83E-10	3.30E-09	3.30E-09	1.82E-09	8.62E-09	6.83E-12	9.88E-11	1.47E-09	1.47E-09	7.28E-10	3.77E-09
304	259143.9	4085413	8.14E-11	1.18E-09	2.08E-08	2.08E-08	1.16E-08	5.44E-08	1.24E-11	1.79E-10	3.25E-09	3.25E-09	1.78E-09	8.47E-09	6.71E-12	9.70E-11	1.44E-09	1.44E-09	7.15E-10	3.71E-09
305	259135.4	4085436	8.00E-11	1.16E-09	2.04E-08	2.04E-08	1.14E-08	5.35E-08	1.21E-11	1.76E-10	3.19E-09	3.19E-09	1.75E-09	8.33E-09	6.60E-12	9.54E-11	1.42E-09	1.42E-09	7.03E-10	3.64E-09
306	259126.8	4085459	7.87E-11	1.14E-09	2.01E-08	2.01E-08	1.12E-08	5.26E-08	1.19E-11	1.73E-10	3.14E-09	3.14E-09	1.73E-09	8.19E-09	6.49E-12	9.38E-11	1.40E-09	1.40E-09	6.91E-10	3.58E-09
307	259118.2	4085482	7.74E-11	1.12E-09	1.98E-08	1.98E-08	1.10E-08	5.18E-08	1.17E-11	1.71E-10	3.09E-09	3.09E-09	1.70E-09	8.05E-09	6.38E-12	9.23E-11	1.37E-09	1.37E-09	6.80E-10	3.53E-09
308	259109.6	4085505	7.61E-11	1.10E-09	1.94E-08	1.94E-08	1.08E-08	5.09E-08	1.15E-11	1.68E-10	3.03E-09	3.03E-09	1.67E-09	7.92E-09	6.27E-12	9.07E-11	1.35E-09	1.35E-09	6.68E-10	3.47E-09
309	259101	4085527	7.48E-11	1.08E-09	1.91E-08	1.91E-08	1.06E-08	5.00E-08	1.13E-11	1.65E-10	2.98E-09	2.98E-09	1.64E-09	7.78E-09	6.16E-12	8.91E-11	1.33E-09	1.33E-09	6.57E-10	3.41E-09
310	259092.4	4085550	7.34E-11	1.06E-09	1.88E-08	1.88E-08	1.05E-08	4.91E-08	1.11E-11	1.62E-10	2.93E-09	2.93E-09	1.61E-09	7.64E-09	6.05E-12	8.76E-11	1.30E-09	1.30E-09	6.45E-10	3.34E-09
311	259083.9	4085573	7.21E-11	1.04E-09	1.84E-08	1.84E-08	1.03E-08	4.82E-08	1.09E-11	1.59E-10	2.87E-09	2.87E-09	1.58E-09	7.50E-09	5.94E-12	8.59E-11	1.28E-09	1.28E-09	6.33E-10	3.28E-09
312	259075.3	4085596	7.07E-11	1.02E-09	1.81E-08	1.81E-08	1.01E-08	4.73E-08	1.07E-11	1.56E-10	2.82E-09	2.82E-09	1.55E-09	7.35E-09	5.83E-12	8.43E-11	1.25E-09	1.25E-09	6.21E-10	3.22E-09
313	259066.7	4085619	6.93E-11	1.00E-09	1.77E-08	1.77E-08	9.87E-09	4.63E-08	1.05E-11	1.53E-10	2.76E-09	2.76E-09	1.52E-09	7.21E-09	5.71E-12	8.26E-11	1.23E-09	1.23E-09	6.09E-10	3.16E-09
314	259058.1	4085641	6.80E-11	9.83E-10	1.74E-08	1.74E-08	9.68E-09	4.55E-08	1.03E-11	1.50E-10	2.71E-09	2.71E-09	1.49E-09	7.07E-09	5.60E-12	8.11E-11	1.21E-09	1.21E-09	5.97E-10	3.10E-09
315	259049.5	4085664	6.67E-11	9.65E-10	1.70E-08	1.70E-08	9.50E-09	4.46E-08	1.01E-11	1.47E-10	2.66E-09	2.66E-09	1.46E-09	6.94E-09	5.50E-12	7.96E-11	1.18E-09	1.18E-09	5.86E-10	3.04E-09
316	259041	4085687	6.56E-11	9.48E-10	1.67E-08	1.67E-08	9.33E-09	4.38E-08	9.95E-12	1.44E-10	2.61E-09	2.61E-09	1.44E-09	6.82E-09	5.40E-12	7.82E-11	1.16E-09	1.16E-09	5.76E-10	2.99E-09
317	259032.4	4085710	6.45E-11	9.32E-10	1.65E-08	1.65E-08	9.18E-09	4.31E-08	9.78E-12	1.42E-10	2.57E-09	2.57E-09	1.41E-09	6.71E-09	5.31E-12	7.69E-11	1.14E-09	1.14E-09	5.66E-10	2.94E-09
318	259001.7	4085743	6.43E-11	9.29E-10	1.64E-08	1.64E-08	9.15E-09	4.30E-08	9.75E-12	1.42E-10	2.56E-09	2.56E-09	1.41E-09	6.69E-09	5.30E-12	7.66E-11	1.14E-09	1.14E-09	5.64E-10	2.93E-09
319	258979.5	4085753	6.51E-11	9.41E-10	1.66E-08	1.66E-08	9.27E-09	4.35E-08	9.88E-12	1.43E-10	2.60E-09	2.60E-09	1.43E-09	6.77E-09	5.36E-12	7.76E-11	1.15E-09	1.15E-09	5.72E-10	2.96E-09
320	258957.4	4085763	6.60E-11	9.54E-10	1.68E-08	1.68E-08	9.39E-09	4.41E-08	1.00E-11	1.45E-10	2.63E-09	2.63E-09	1.45E-09	6.86E-09	5.44E-12	7.86E-11	1.17E-09	1.17E-09	5.79E-10	3.00E-09
321	258935.3	4085774	6.69E-11	9.67E-10	1.71E-08	1.71E-08	9.52E-09	4.47E-08	1.02E-11	1.47E-10	2.67E-09	2.67E-09	1.47E-09	6.96E-09	5.51E-12	7.97E-11	1.19E-09	1.19E-09	5.87E-10	3.05E-09
322	258913.2	4085784	6.79E-11	9.81E-10	1.73E-08	1.73E-08	9.66E-09	4.54E-08	1.03E-11	1.50E-10	2.71E-09	2.71E-09	1.49E-09	7.06E-09	5.59E-12	8.09E-11	1.20E-09	1.20E-09	5.96E-10	3.09E-09
323	258891	4085794	6.89E-11	9.97E-10	1.76E-08	1.76E-08	9.81E-09	4.61E-08	1.05E-11	1.52E-10	2.75E-09	2.75E-09	1.51E-09	7.17E-09	5.68E-12	8.22E-11	1.22E-09	1.22E-09	6.05E-10	3.14E-09
324	258868.9	4085804	7.01E-11	1.01E-09	1.79E-08	1.79E-08	9.98E-09	4.68E-08	1.06E-11	1.54E-10	2.79E-09	2.79E-09	1.54E-09	7.29E-09	5.77E-12	8.35E-11	1.24E-09	1.24E-09	6.15E-10	3.19E-09
325	258846.8	4085815	7.13E-11	1.03E-09	1.82E-08	1.82E-08	1.02E-08	4.77E-08	1.08E-11	1.57E-10	2.84E-09	2.84E-09	1.56E-09	7.42E-09	5.88E-12	8.50E-11	1.27E-09	1.27E-09	6.26E-10	3.25E-09
326	258824.7	4085825	7.28E-11	1.05E-09	1.86E-08	1.86E-08	1.04E-08	4.87E-08	1.10E-11	1.60E-10	2.90E-09	2.90E-09	1.60E-09	7.57E-09	6.00E-12	8.68E-11	1.29E-09	1.29E-09	6.39E-10	3.31E-09
327	258802.5	4085835	7.44E-11	1.08E-09	1.90E-08	1.90E-08	1.06E-08	4.97E-08	1.13E-11	1.64E-10	2.97E-09	2.97E-09	1.63E-09	7.74E-09	6.13E-12	8.87E-11	1.32E-09	1.32E-09	6.53E-10	3.39E-09
328	258780.4	4085845	7.61E-11	1.10E-09	1.94E-08	1.94E-08	1.08E-08	5.09E-08	1.15E-11	1.68E-10	3.03E-09	3.03E-09	1.67E-09	7.92E-09	6.27E-12	9.07E-11	1.35E-09	1.35E-09	6.68E-10	3.47E-09
329	258758.3	4085856	7.80E-11	1.13E-09	1.99E-08	1.99E-08	1.11E-08	5.21E-08	1.18E-11	1.72E-10	3.11E-09	3.11E-09	1.71E-09	8.11E-09	6.43E-12	9.30E-11	1.38E-09	1.38E-09	6.85E-10	3.55E-09
330	258736.2	4085866	7.98E-11	1.15E-09	2.04E-08	2.04E-08	1.14E-08	5.34E-08	1.21E-11	1.76E-10	3.18E-09	3.18E-09	1.75E-09	8.30E-09	6.58E-12	9.52E-11	1.42E-09	1.42E-09	7.01E-10	3.64E-09
331	258714	4085876	8.15E-11	1.18E-09	2.08E-08	2.08E-08	1.16E-08	5.45E-08	1.24E-11	1.80E-10	3.25E-09	3.25E-09	1.79E-09	8.48E-09	6.72E-12	9.72E-11	1.45E-09	1.45E-09	7.16E-10	3.71E-09
332	258691.9	4085886	8.32E-11	1.20E-09	2.12E-08	2.12E-08	1.18E-08	5.56E-08	1.26E-11	1.83E-10	3.32E-09	3.32E-09	1.82E-09	8.65E-09	6.86E-12	9.92E-11	1.48E-09	1.48E-09	7.31E-10	3.79E-09
333	258669.8	4085896	8.46E-11	1.22E-09	2.16E-08	2.16E-08	1.20E-08	5.66E-08	1.28E-11	1.86E-10	3.37E-09	3.37E-09	1.86E-09	8.80E-09	6.97E-12	1.01E-10	1.50E-09	1.50E-09	7.43E-10	3.85E-09
334	258647.7	4085907	8.59E-11	1.24E-09	2.19E-08	2.19E-08	1.22E-08	5.75E-08	1.30E-11	1.89E-10	3.43E-09	3.43E-09	1.88E-09	8.94E-09	7.08E-12	1.02E-10	1.52E-09	1.52E-09	7.55E-10	3.91E-09
335	258625.5	4085917	8.72E-11	1.26E-09	2.23E-08	2.23E-08	1.24E-08	5.83E-08	1.32E-11	1.92E-10	3.48E-09	3.48E-09	1.91E-09	9.07E-09	7.18E-12	1.04E-10	1.55E-09	1.55E-09	7.65E-10	3.97E-09
336	258603.4	4085927	8.83E-11	1.28E-09	2.26E-08	2.26E-08	1.26E-08	5.91E-08	1.34E-11	1.95E-10	3.52E-09	3.52E-09	1.94E-09	9.19E-09	7.28E-12	1.05E-10	1.57E-09	1.57E-09	7.76E-10	4.02E-09
337	258581.3	4085937	8.96E-11	1.30E-09	2.29E-08	2.29E-08	1.28E-08	5.99E-08	1.36E-11	1.97E-10	3.57E-09	3.57E-09	1.96E-09	9.32E-09	7.38E-12	1.07E-10	1.59E-09	1.59E-09	7.87E-10	4.08E-09
338	258559.2	4085948	9.08E-11	1.31E-09	2.32E-08	2.32E-08	1.29E-08	6.07E-08	1.38E-11	2.00E-10	3.62E-09	3.62E-09	1.99E-09	9.45E-09	7.49E-12	1.08E-10	1.61E-09	1.61E-09	7.98E-10	4.14E-09
339	258537	4085958	9.22E-11	1.33E-09	2.36E-08	2.36E-08	1.31E-08	6.17E-08	1.40E-11	2.03E-10	3.68E-09	3.68E-09	2.02E-09	9.59E-09	7.60E-12	1.10E-10	1.64E-09	1.64E-09	8.10E-10	4.20E-09
340	258514.9	4085968	9.36E-11	1.35E-09	2.39E-08	2.39E-08	1.33E-08	6.26E-08	1.42E-11	2.06E-10	3.73E-09	3.73E-09	2.05E-09	9.74E-09	7.72E-12	1.12E-10	1.66E-09	1.66E-09	8.22E-10	4.26E-09
341	258492.8	4085978	9.51E-11	1.38E-09	2.43E-08	2.43E-08	1.35E-08	6.36E-08	1.44E-11	2.10E-10	3.79E-09	3.79E-09	2.09E-09	9.90E-09	7.84E-12	1.13E-10	1.69E-09	1.69E-09	8.36E-10	4.33E-09
342	258470.7	4085989	9.67E-11	1.40E-09	2.47E-08	2.47E-08	1.38E-08	6.47E-08	1.47E-11	2.13E-10	3.86E-09	3.86E-09	2.12E-09	1.01E-08	7.97E-12	1.15E-10	1.72E-09	1.72E-09	8.49E-10	4.40E-09
343	258448.5	4085999	9.83E-11	1.42E-09	2.51E-08	2.51E-08	1.40E-08	6.57E-08	1.49E-11	2.17E-10	3.92E-09	3.92E-09	2.16E-09	1.02E-08	8.10E-12	1.17E-10	1.74E-09	1.74E-09	8.63E-10	4.48E-09
344	258426.4	4086009	9.99E-11	1.45E-09	2.55E-08	2.55E-08	1.42E-08	6.68E-08	1.52E-11	2.20E-10	3.98E-09	3.98E-09	2.19E-09	1.04E-08	8.24E-12	1.19E-10	1.77E-09	1.77E-09	8.77E-10	4.55E-09
345	259264.1	4085094	1.05E-10	1.52E-09	2.69E-08	2.69E-08	1.50E-08	7.05E-08	1.60E-11	2.32E-10	4.20E-09	4.20E-09	2.31E-09	1.10E-08	8.68E-12	1.26E-10	1.87E-09	1.87E-09	9.25E-10	4.80E-09
346	259263.4	4085069	1.08E-10	1.56E-09	2.76E-08	2.76E-08	1.54E-08	7.23E-08	1.64E-11	2.38E-10	4.31E-09	4.31E-09	2.37E-09	1.12E-08	8.91E-12	1.29E-10	1.92E-09	1.92E-09	9.50E-10	4.92E-09
347	259262.6	4085044	1.11E-10	1.61E-09	2.84E-08	2.84E-08	1.58E-08	7.44E-08	1.69E-11	2.45E-10	4.43E-09	4.43E-09	2.44E-09	1.16E-08	9.17E-12	1.33E-10	1.97E-09	1.97E-09	9.77E-10	5.06E-09
348	259261.9	4085020	1.15E-10	1.66E-09	2.93E-08	2.93E-08	1.63E-08	7.68E-08	1.74E-11	2.53E-10	4.58E-09	4.58E-09	2.52E-09	1.19E-08	9.46E-12	1.37E-10	2.04E-09	2.04E-09	1.01E-09	5.23E-09
349	259261.2	4084995	1.19E-10	1.72E-09	3.04E-08	3.04E-08	1.69E-08	7.95E-08	1.80E-11	2.62E-10	4.74E-09	4.74E-09	2.61E-09	1.24E-08	9.80E-12	1.42E-10	2.11E-09	2.11E-09	1.04E-09	5.41E-09
350	259260.5	4084970	1.23E-10	1.79E-09	3.15E-08	3.15E-08	1.76E-08	8.25E-08	1.87E-11	2.72E-10	4.92E-09	4.92E-09	2.71E-09	1.28E-08	1.02E-11	1.47E-10	2.19E-09	2.19E-09	1.08E-09	5.62E-09

351	259259.7	4084945	1.28E-10	1.86E-09	3.28E-08	3.28E-08	1.83E-08	8.58E-08	1.95E-11	2.83E-10	5.12E-09	5.12E-09	2.81E-09	1.34E-08	1.06E-11	1.53E-10	2.28E-09	2.28E-09	1.13E-09	5.85E-09
352	259259	4084921	1.33E-10	1.93E-09	3.41E-08	3.41E-08	1.90E-08	8.92E-08	2.03E-11	2.94E-10	5.32E-09	5.32E-09	2.93E-09	1.39E-08	1.10E-11	1.59E-10	2.37E-09	2.37E-09	1.17E-09	6.08E-09
353	259258.3	4084896	1.39E-10	2.01E-09	3.54E-08	3.54E-08	1.97E-08	9.27E-08	2.10E-11	3.06E-10	5.53E-09	5.53E-09	3.04E-09	1.44E-08	1.14E-11	1.65E-10	2.46E-09	2.46E-09	1.22E-09	6.32E-09
354	259455.4	4085111	8.02E-11	1.16E-09	2.05E-08	2.05E-08	1.14E-08	5.36E-08	1.22E-11	1.77E-10	3.20E-09	3.20E-09	1.76E-09	8.34E-09	6.61E-12	9.56E-11	1.42E-09	1.42E-09	7.04E-10	3.65E-09
355	259446.7	4085134	7.98E-11	1.15E-09	2.04E-08	2.04E-08	1.14E-08	5.34E-08	1.21E-11	1.76E-10	3.18E-09	3.18E-09	1.75E-09	8.30E-09	6.58E-12	9.51E-11	1.42E-09	1.42E-09	7.01E-10	3.63E-09
356	259438.1	4085157	7.93E-11	1.15E-09	2.03E-08	2.03E-08	1.13E-08	5.30E-08	1.20E-11	1.75E-10	3.16E-09	3.16E-09	1.74E-09	8.25E-09	6.54E-12	9.45E-11	1.41E-09	1.41E-09	6.96E-10	3.61E-09
357	259429.4	4085180	7.86E-11	1.14E-09	2.01E-08	2.01E-08	1.12E-08	5.26E-08	1.19E-11	1.73E-10	3.14E-09	3.14E-09	1.72E-09	8.18E-09	6.48E-12	9.37E-11	1.40E-09	1.40E-09	6.91E-10	3.58E-09
358	259420.8	4085203	7.77E-11	1.12E-09	1.99E-08	1.99E-08	1.11E-08	5.20E-08	1.18E-11	1.71E-10	3.10E-09	3.10E-09	1.70E-09	8.09E-09	6.41E-12	9.27E-11	1.38E-09	1.38E-09	6.83E-10	3.54E-09
359	259412.2	4085226	7.66E-11	1.11E-09	1.96E-08	1.96E-08	1.09E-08	5.12E-08	1.16E-11	1.69E-10	3.05E-09	3.05E-09	1.68E-09	7.97E-09	6.31E-12	9.13E-11	1.36E-09	1.36E-09	6.73E-10	3.49E-09
360	259403.5	4085249	7.53E-11	1.09E-09	1.92E-08	1.92E-08	1.07E-08	5.03E-08	1.14E-11	1.66E-10	3.00E-09	3.00E-09	1.65E-09	7.83E-09	6.20E-12	8.97E-11	1.34E-09	1.34E-09	6.61E-10	3.43E-09
361	259394.9	4085272	7.38E-11	1.07E-09	1.88E-08	1.88E-08	1.05E-08	4.93E-08	1.12E-11	1.63E-10	2.94E-09	2.94E-09	1.62E-09	7.68E-09	6.08E-12	8.80E-11	1.31E-09	1.31E-09	6.48E-10	3.36E-09
362	259386.3	4085295	7.22E-11	1.04E-09	1.84E-08	1.84E-08	1.03E-08	4.83E-08	1.10E-11	1.59E-10	2.88E-09	2.88E-09	1.58E-09	7.51E-09	5.95E-12	8.61E-11	1.28E-09	1.28E-09	6.34E-10	3.29E-09
363	259377.6	4085318	7.06E-11	1.02E-09	1.80E-08	1.80E-08	1.01E-08	4.72E-08	1.07E-11	1.56E-10	2.82E-09	2.82E-09	1.55E-09	7.35E-09	5.82E-12	8.42E-11	1.25E-09	1.25E-09	6.20E-10	3.22E-09
364	259369	4085341	6.89E-11	9.97E-10	1.76E-08	1.76E-08	9.82E-09	4.61E-08	1.05E-11	1.52E-10	2.75E-09	2.75E-09	1.51E-09	7.17E-09	5.68E-12	8.22E-11	1.22E-09	1.22E-09	6.05E-10	3.14E-09
365	259360.3	4085364	6.75E-11	9.76E-10	1.72E-08	1.72E-08	9.61E-09	4.51E-08	1.02E-11	1.49E-10	2.69E-09	2.69E-09	1.48E-09	7.02E-09	5.56E-12	8.05E-11	1.20E-09	1.20E-09	5.93E-10	3.07E-09
366	259351.7	4085387	6.62E-11	9.57E-10	1.69E-08	1.69E-08	9.42E-09	4.43E-08	1.00E-11	1.46E-10	2.64E-09	2.64E-09	1.45E-09	6.89E-09	5.46E-12	7.89E-11	1.17E-09	1.17E-09	5.81E-10	3.01E-09
367	259343.1	4085410	6.50E-11	9.40E-10	1.66E-08	1.66E-08	9.26E-09	4.35E-08	9.86E-12	1.43E-10	2.59E-09	2.59E-09	1.43E-09	6.76E-09	5.36E-12	7.75E-11	1.15E-09	1.15E-09	5.71E-10	2.96E-09
368	259334.4	4085433	6.39E-11	9.25E-10	1.63E-08	1.63E-08	9.10E-09	4.28E-08	9.70E-12	1.41E-10	2.55E-09	2.55E-09	1.40E-09	6.65E-09	5.27E-12	7.62E-11	1.13E-09	1.13E-09	5.62E-10	2.91E-09
369	259325.8	4085455	6.30E-11	9.11E-10	1.61E-08	1.61E-08	8.97E-09	4.21E-08	9.56E-12	1.39E-10	2.51E-09	2.51E-09	1.38E-09	6.56E-09	5.19E-12	7.51E-11	1.12E-09	1.12E-09	5.53E-10	2.87E-09
370	259317.2	4085478	6.21E-11	8.99E-10	1.59E-08	1.59E-08	8.85E-09	4.16E-08	9.43E-12	1.37E-10	2.48E-09	2.48E-09	1.36E-09	6.46E-09	5.12E-12	7.41E-11	1.10E-09	1.10E-09	5.46E-10	2.83E-09
371	259308.5	4085501	6.13E-11	8.87E-10	1.57E-08	1.57E-08	8.74E-09	4.10E-08	9.31E-12	1.35E-10	2.45E-09	2.45E-09	1.35E-09	6.38E-09	5.06E-12	7.31E-11	1.09E-09	1.09E-09	5.39E-10	2.79E-09
372	259299.9	4085524	6.06E-11	8.76E-10	1.55E-08	1.55E-08	8.63E-09	4.05E-08	9.19E-12	1.33E-10	2.42E-09	2.42E-09	1.33E-09	6.30E-09	4.99E-12	7.22E-11	1.07E-09	1.07E-09	5.32E-10	2.76E-09
373	259291.2	4085547	5.98E-11	8.65E-10	1.53E-08	1.53E-08	8.52E-09	4.00E-08	9.08E-12	1.32E-10	2.39E-09	2.39E-09	1.31E-09	6.23E-09	4.93E-12	7.13E-11	1.06E-09	1.06E-09	5.26E-10	2.73E-09
374	259282.6	4085570	5.91E-11	8.55E-10	1.51E-08	1.51E-08	8.42E-09	3.95E-08	8.97E-12	1.30E-10	2.36E-09	2.36E-09	1.30E-09	6.15E-09	4.87E-12	7.05E-11	1.05E-09	1.05E-09	5.19E-10	2.69E-09
375	259274	4085593	5.84E-11	8.44E-10	1.49E-08	1.49E-08	8.31E-09	3.90E-08	8.86E-12	1.29E-10	2.33E-09	2.33E-09	1.28E-09	6.07E-09	4.81E-12	6.96E-11	1.04E-09	1.04E-09	5.13E-10	2.66E-09
376	259265.3	4085616	5.76E-11	8.34E-10	1.47E-08	1.47E-08	8.21E-09	3.85E-08	8.75E-12	1.27E-10	2.30E-09	2.30E-09	1.26E-09	6.00E-09	4.75E-12	6.87E-11	1.02E-09	1.02E-09	5.06E-10	2.63E-09
377	259256.7	4085639	5.69E-11	8.23E-10	1.45E-08	1.45E-08	8.10E-09	3.80E-08	8.63E-12	1.25E-10	2.27E-09	2.27E-09	1.25E-09	5.92E-09	4.69E-12	6.78E-11	1.01E-09	1.01E-09	4.99E-10	2.59E-09
378	259248.1	4085662	5.61E-11	8.11E-10	1.43E-08	1.43E-08	7.98E-09	3.75E-08	8.51E-12	1.24E-10	2.24E-09	2.24E-09	1.23E-09	5.83E-09	4.62E-12	6.68E-11	9.95E-10	9.95E-10	4.92E-10	2.55E-09
379	259239.4	4085685	5.52E-11	7.98E-10	1.41E-08	1.41E-08	7.86E-09	3.69E-08	8.38E-12	1.22E-10	2.20E-09	2.20E-09	1.21E-09	5.74E-09	4.55E-12	6.58E-11	9.80E-10	9.80E-10	4.85E-10	2.51E-09
380	259230.8	4085708	5.43E-11	7.85E-10	1.39E-08	1.39E-08	7.73E-09	3.63E-08	8.24E-12	1.20E-10	2.17E-09	2.17E-09	1.19E-09	5.65E-09	4.48E-12	6.47E-11	9.64E-10	9.64E-10	4.77E-10	2.47E-09
381	259222.1	4085731	5.34E-11	7.72E-10	1.36E-08	1.36E-08	7.61E-09	3.57E-08	8.11E-12	1.18E-10	2.13E-09	2.13E-09	1.17E-09	5.56E-09	4.40E-12	6.37E-11	9.48E-10	9.48E-10	4.69E-10	2.43E-09
382	259213.5	4085754	5.25E-11	7.60E-10	1.34E-08	1.34E-08	7.48E-09	3.51E-08	7.97E-12	1.16E-10	2.10E-09	2.10E-09	1.15E-09	5.47E-09	4.33E-12	6.26E-11	9.32E-10	9.32E-10	4.61E-10	2.39E-09
383	259204.9	4085777	5.17E-11	7.47E-10	1.32E-08	1.32E-08	7.36E-09	3.45E-08	7.84E-12	1.14E-10	2.06E-09	2.06E-09	1.13E-09	5.37E-09	4.26E-12	6.16E-11	9.17E-10	9.17E-10	4.54E-10	2.35E-09
384	259196.2	4085800	5.09E-11	7.36E-10	1.30E-08	1.30E-08	7.24E-09	3.40E-08	7.72E-12	1.12E-10	2.03E-09	2.03E-09	1.12E-09	5.29E-09	4.19E-12	6.06E-11	9.03E-10	9.03E-10	4.47E-10	2.32E-09
385	259187.6	4085823	5.01E-11	7.25E-10	1.28E-08	1.28E-08	7.14E-09	3.35E-08	7.61E-12	1.10E-10	2.00E-09	2.00E-09	1.10E-09	5.21E-09	4.13E-12	5.98E-11	8.89E-10	8.89E-10	4.40E-10	2.28E-09
386	259179	4085846	4.95E-11	7.15E-10	1.26E-08	1.26E-08	7.04E-09	3.31E-08	7.51E-12	1.09E-10	1.97E-09	1.97E-09	1.08E-09	5.15E-09	4.08E-12	5.90E-11	8.78E-10	8.78E-10	4.34E-10	2.25E-09
387	259148	4085879	4.94E-11	7.15E-10	1.26E-08	1.26E-08	7.04E-09	3.30E-08	7.50E-12	1.09E-10	1.97E-09	1.97E-09	1.08E-09	5.14E-09	4.07E-12	5.89E-11	8.77E-10	8.77E-10	4.34E-10	2.25E-09
388	259125.8	4085889	5.00E-11	7.23E-10	1.28E-08	1.28E-08	7.12E-09	3.34E-08	7.59E-12	1.10E-10	1.99E-09	1.99E-09	1.10E-09	5.20E-09	4.12E-12	5.96E-11	8.87E-10	8.87E-10	4.39E-10	2.28E-09
389	259103.5	4085900	5.06E-11	7.32E-10	1.29E-08	1.29E-08	7.20E-09	3.38E-08	7.68E-12	1.11E-10	2.02E-09	2.02E-09	1.11E-09	5.26E-09	4.17E-12	6.03E-11	8.97E-10	8.97E-10	4.44E-10	2.30E-09
390	259081.2	4085910	5.12E-11	7.40E-10	1.31E-08	1.31E-08	7.29E-09	3.42E-08	7.77E-12	1.13E-10	2.04E-09	2.04E-09	1.12E-09	5.33E-09	4.22E-12	6.10E-11	9.08E-10	9.08E-10	4.50E-10	2.33E-09
391	259059	4085920	5.18E-11	7.50E-10	1.32E-08	1.32E-08	7.38E-09	3.47E-08	7.86E-12	1.14E-10	2.07E-09	2.07E-09	1.14E-09	5.39E-09	4.27E-12	6.18E-11	9.19E-10	9.19E-10	4.55E-10	2.36E-09
392	259036.7	4085931	5.25E-11	7.59E-10	1.34E-08	1.34E-08	7.47E-09	3.51E-08	7.97E-12	1.16E-10	2.09E-09	2.09E-09	1.15E-09	5.46E-09	4.33E-12	6.26E-11	9.31E-10	9.31E-10	4.61E-10	2.39E-09
393	259014.4	4085941	5.32E-11	7.69E-10	1.36E-08	1.36E-08	7.57E-09	3.56E-08	8.07E-12	1.17E-10	2.12E-09	2.12E-09	1.17E-09	5.53E-09	4.38E-12	6.34E-11	9.43E-10	9.43E-10	4.67E-10	2.42E-09
394	258992.2	4085951	5.39E-11	7.80E-10	1.38E-08	1.38E-08	7.68E-09	3.60E-08	8.18E-12	1.19E-10	2.15E-09	2.15E-09	1.18E-09	5.61E-09	4.44E-12	6.43E-11	9.57E-10	9.57E-10	4.73E-10	2.46E-09
395	258969.9	4085962	5.47E-11	7.91E-10	1.40E-08	1.40E-08	7.79E-09	3.66E-08	8.30E-12	1.20E-10	2.18E-09	2.18E-09	1.20E-09	5.69E-09	4.51E-12	6.52E-11	9.70E-10	9.70E-10	4.80E-10	2.49E-09
396	258947.6	4085972	5.54E-11	8.02E-10	1.42E-08	1.42E-08	7.89E-09	3.71E-08	8.41E-12	1.22E-10	2.21E-09	2.21E-09	1.21E-09	5.77E-09	4.57E-12	6.61E-11	9.83E-10	9.83E-10	4.87E-10	2.52E-09
397	258925.3	4085982	5.64E-11	8.15E-10	1.44E-08	1.44E-08	8.03E-09	3.77E-08	8.56E-12	1.24E-10	2.25E-09	2.25E-09	1.24E-09	5.86E-09	4.65E-12	6.72E-11	1.00E-09	1.00E-09	4.95E-10	2.57E-09
398	258903.1	4085992	5.75E-11	8.32E-10	1.47E-08	1.47E-08	8.19E-09	3.85E-08	8.73E-12	1.27E-10	2.29E-09	2.29E-09	1.26E-09	5.98E-09	4.74E-12	6.86E-11	1.02E-09	1.02E-09	5.05E-10	2.62E-09
399	258880.8	4086003	5.88E-11	8.50E-10	1.50E-08	1.50E-08	8.37E-09	3.93E-08	8.92E-12	1.29E-10	2.34E-09	2.34E-09	1.29E-09	6.11E-09	4.84E-12	7.00E-11	1.04E-09	1.04E-09	5.16E-10	2.68E-09
400	258858.5	4086013	6.01E-11	8.70E-10	1.54E-08	1.54E-08	8.56E-09	4.02E-08	9.13E-12	1.32E-10	2.40E-09	2.40E-09	1.32E-09	6.26E-09	4.96E-12	7.17E-11	1.07E-09	1.07E-09	5.28E-10	2.74E-09
401	258836.3	4086023	6.16E-11	8.90E-10	1.57E-08	1.57E-08	8.77E-09	4.12E-08	9.34E-12	1.36E-10	2.45E-09	2.45E-09	1.35E-09	6.40E-09	5.07E-12	7.34E-11	1.09E-09	1.09E-09	5.41E-10	2.80E-09
402	258814	4086034	6.30E-11	9.11E-10	1.61E-08	1.61E-08	8.97E-09	4.21E-08	9.56E-12	1.39E-10	2.51E-09	2.51E-09	1.38E-09	6.55E-09	5.19E-12	7.51E-11	1.12E-09	1.12E-09	5.53E-10	2.87E-09
403	258791.7	4086044	6.43E-11	9.31E-10	1.64E-08	1.64E-08	9.16E-09	4.30E-08	9.76E-12	1.42E-10	2.57E-09	2.57E-09	1.41E-09	6.69E-09	5.30E-12	7.67E-11	1.14E-09	1.14E-09	5.65E-10	2.93E-09
404	258769.5	4086054	6.56E-11	9.49E-10	1.68E-08	1.68E-08	9.34E-09	4.39E-08	9.95E-12	1.45E-10	2.62E-09	2.62E-09	1.44E-09	6.82E-09	5.41E-12	7.82E-11	1.16E-09	1.16E-09	5.76E-10	2.99E-09
405	258747.2	4086065	6.67E-11	9.65E-10	1.70E-08	1.70E-08	9.50E-09	4.46E-08	1.01E-11	1.47E-10	2.66E-09	2.66E-09	1.46E-09	6.94E-09	5.50E-12	7.95E-11	1.18E-09	1.18E-09	5.86E-10	3.04E-09
406	258724.9	4086075	6.76E-11	9.78E-10	1.73E-08	1.73E-08	9.63E-09	4.52E-08	1.03E-11	1.49E-10	2.70E-09	2.70E-09	1.48E-09	7.04E-09	5.57E-12	8.06E-11	1.20E-09	1.20E-09	5.94E-10	3.08E-09
407	258702.6	4086085	6.84E-11	9.90E-10	1.75E-08	1.75E-08	9.75E-09	4.58E-08	1.04E-11	1.51E-10	2.73E-09	2.73E-09	1.50E-09	7.12E-09	5.64E-12	8.16E-11	1.21E-09	1.21E-09	6.01E-10	3.12E-09
408	258680.4	4086095	6.92E-11	1.00E-09	1.77E-08	1.77E-08	9.85E-09	4.63E-08	1.05E-11	1.52E-10	2.76E-09	2.76E-09	1.52E-09	7.20E-09	5.70E-12	8.25E-11	1.23E-09	1.23E-09	6.08E-10	3.15E-09
409	258658.1	4086106	6.98E-11	1.01E-09	1.78E-08	1.78E-08	9.95E-09	4.67E-08	1.06E-11	1.54E-10	2.79E-09	2.79E-09	1.53E-09	7.27E-09	5.76E-12	8.33E-11	1.24E-09	1.24E-09	6.13E-10	3.18E-09
410	258635.8	4086116	7.05E-11	1.02E-09	1.80E-08	1.80E-08	1.00E-08	4.71E-08	1.07E-11	1.55E-10	2.81E-09	2.81E-09	1.55E-09	7.33E-09	5.81E-12	8.41E-11	1.25E-09	1.25E-09	6.19E-10	3.21E-09
411	258613.6	4086126	7.12E-11	1.03E-09	1.82E-08	1.82E-08	1.01E-08	4.76E-08	1.08E-11	1.57E-10	2.84E-09	2.84E-09	1.56E-09	7.41E-09	5.87E-12	8.49E-11	1.26E-09	1.26E-09	6.25E-10	3.24E-09
412	258591.3	4086137	7.19E-11	1.04E-09	1.84E-08	1.84E-08	1.02E-08	4.81E-08	1.09E-11	1.58E-10	2.87E-09	2.87E-09	1.58E-09	7.48E-09	5.93E-12	8.57E-11	1.28E-09	1.28E-09	6.32E-10	3.27E-09
413	258569	4086147	7.27E-11	1.05E-09	1.86E-08	1.86E-08	1.04E-08	4.86E-08	1.10E-11	1.60E-10	2.90E-09	2.90E-09	1.59E-09	7.56E-09	5.99E-12	8.67E-11	1.29E-09	1.29E-09	6.38E-10	3.31E-09
414	258546.8	4086157	7.35E-11	1.06E-09	1.88E-08	1.88E-08	1.05E-08	4.92E-08	1.12E-11	1.62E-10	2.93E-09	2.93E-09	1.61E-09	7.65E-09	6.06E-12	8.77E-11	1.30E-09	1.30E-09	6.46E-10	3.35E-09
415	258524.5	4086168	7.45E-11	1.08E-09	1.90E-08	1.90E-08	1.06E-08	4.98E-08	1.13E-11	1.64E-10	2.97E-09	2.97E-09	1.63E-09	7.75E-09	6.14E-12	8.88E-11	1.32E-09	1.32E-09	6.54E-10	3.39E-09
416	258502.2	4086178	7.55E-11	1.09E-09	1.93E-08	1.93E-08	1.07E-08	5.05E-08	1.15E-11	1.66E-10	3.01E-09	3.01E-09	1.65E-09	7.85E-09	6.22E-12	9.00E-11	1.34E-09	1.34E-09	6.63E-10	3.44E-09
417	258479.9	4086188	7.65E-11	1.11E-09	1.95E-08	1.95E-08	1.09E-08	5.12E-08	1.16E-11	1.69E-10	3.05E-09	3.05E-09	1.68E-09	7.96E-09	6.31E-12	9.12E-11	1.36E-09	1.36E-09	6.72E-10	3.49E-09
418	258457.7	4086198	7.76E-11	1.12E-09	1.98E-08	1.98E-08	1.10E-08	5.19E-08	1.18E-11	1.71E-10	3.09E-09	3.09E-09	1.70E-09	8.07E-09	6.40E-12	9.25E-11	1.38E-09	1.38E-09	6.81E-10	3.53E-09
419	258435.4	4086209	7.88E-11	1.14E-09	2.01E-08	2.01E-08	1.12E-08	5.27E-08	1.20E-11	1.74E-10	3.14E-09	3.14E-09	1.73E-09	8.20E-09	6.50E-12	9.40E-11	1.40E-09	1.40E-09	6.92E-10	3.59E-09
420	259464	4085088	8.06E-11	1.17E-09	2.06E-08	2.06E-08	1.15E-08	5.39E-08	1.22E-11	1.78E-10	3.21E-09	3.21E-09	1.77E-09	8.38E-09	6.64E-12	9.60E-11	1.43E-09	1.43E-09	7.08E-10	3.67E-09
421	259463.3	4085063	8.21E-11	1.19E-09	2.10E-08	2.10E-08	1.17E-08	5.49E-08	1.25E-11	1.81E-10	3.27E-09	3.27E-09	1.80E-09	8.54E-09	6.77E-12	9.79E-11	1.46E-09	1.46E-09	7.21E-10	3.74E-09
422	259462.6	4085039	8.41E-11	1.22E-09	2.15E-08	2.15E-08	1.20E-08	5.62E-08	1.28E-11	1.85E-10	3.35E-09	3.35E-09	1.84E-09	8.74E-09	6.93E-12	1.00E-10	1.49E-09	1.49E-09	7.38E-10	3.83E-09
423	259461.8	4085014	8.63E-11	1.25E-09	2.20E-08	2.20E-08	1.23E-08	5.77E-08	1.31E-11	1.90E-10	3.44E-09	3.44E-09	1.89E-09	8.98E-09	7.11E-12	1.03E-10	1.53E-09	1.53E-09	7.58E-10	3.93E-09
424	259461.1	4084989	8.90E-11	1.29E-09	2.27E-08	2.27E-08	1.27E-08	5.95E-08	1.35E-11	1.96E-10	3.55E-09	3.55E-09	1.95E-09	9.25E-09	7.33E-12	1.06E-10	1.58E-09	1.58E-09	7.81E-10	4.05E-09
425	259460.4	4084964	9.19E-11	1.33E-09	2.35E-08	2.35E-08	1.31E-08	6.15E-08	1.39E-11	2.03E-10	3.67E-09	3.67E-09	2.02E-09	9.56E-09	7.58E-12	1.10E-10	1.63E-09	1.63E-09	8.07E-10	4.19E-09
426	259459.7	4084939	9.51E-11	1.38E-09	2.43E-08	2.43E-08	1.35E-08	6.36E-08	1.44E-11	2.10E-10	3.79E-09	3.79E-09	2.09E-09	9.90E-09	7.84E-12	1.13E-10	1.69E-09	1.69E-09	8.36E-10	4.33E-09
427	259458.9	4084915	9.85E-11	1.42E-09	2.52E-08	2.52E-08	1.40E-08	6.58E-08	1.49E-11	2.17E-10	3.93E-09	3.93E-09	2.16E-09	1.02E-08	8.12E-12	1.17E-10	1.75E-09	1.75E-09	8.65E-10	4.48E-09
428	259458.2	4084890	1.02E-10	1.47E-09	2.60E-08	2.60E-08	1.45E-08	6.81E-08	1.55E-11	2.24E-10	4.06E-09	4.06E-09	2.23E-09	1.06E-08	8.39E-12	1.21E-10	1.81E-09	1.81E-09	8.94E-10	4.64E-09
429	259655.2	4085105	6.47E-11	9.36E-10	1.65E-08	1.65E-08	9.22E-09	4.33E-08	9.82E-12	1.43E-10	2.58E-09	2.58E-09	1.42E-09	6.73E-09	5.34E-12	7.72E-11	1.15E-09	1.15E-09	5.69E-10	2.95E-09
430	259646.6	4085128	6.46E-11	9.35E-10	1.65E-08	1.65E-08	9.20E-09	4.32E-08	9.81E-12	1.42E-10	2.58E-09	2.58E-09	1.42E-09	6.72E-09	5.33E-12	7.71E-11	1.15E-09	1.15E-09	5.68E-10	2.94E-09
431	259637.9	4085151	6.45E-11	9.33E-10	1.65E-08	1.65E-08	9.18E-09	4.31E-08	9.79E-12	1.42E-10	2.57E-09	2.57E-09	1.41E-09	6.71E-09	5.32E-12	7.69E-11	1.14E-09	1.14E-09	5.66E-10	2.94E-09
432	259629.2	4085174	6.42E-11	9.28E-10	1.64E-08	1.64E-08	9.14E-09	4.29E-08	9.74E-12	1.41E-10	2.56E-09	2.56E-09	1.41E-09	6.67E-09	5.29E-12	7.65E-11	1.14E-09	1.14E-09	5.63E-10	2.92E-09
433	259620.5	4085198	6.37E-11	9.22E-10	1.63E-08	1.63E-08	9.07E-09	4.26E-08	9.67E-12	1.40E-10	2.54E-09	2.54E-09	1.40E-09	6.63E-09	5.25E-12	7.60E-11	1.13E-09	1.13E-09	5.60E-10	2.90E-09
434	259611.8	4085221	6.31E-11	9.13E-10	1.61E-08	1.61E-08	8.99E-09	4.22E-08	9.58E-12	1.39E-10	2.52E-09	2.52E-09	1.38E-09	6.57E-09	5.21E-12	7.53E-11	1.12E-09	1.12E-09	5.55E-10	2.88E-09
435	259603.2	4085244	6.24E-11	9.02E-10	1.59E-08	1.59E-08	8.88E-09	4.17E-08	9.47E-12	1.37E-10	2.49E-09	2.49E-09	1.37E-09	6.49E-09	5.14E-12	7.44E-11	1.11E-09	1.11E-09	5.48E-10	2.84E-09
436	259594.5	4085267	6.14E-11	8.88E-10	1.57E-08	1.57E-08	8.75E-09	4.11E-08	9.32E-12	1.35E-10	2.45E-09	2.45E-09	1.35E-09	6.39E-09	5.06E-12	7.32E-11	1.09E-09	1.09E-09	5.39E-10	2.80E-09
437	259585.8	4085290	6.04E-11	8.73E-10	1.54E-08	1.54E-08	8.60E-09	4.04E-08	9.16E-12	1.33E-10	2.41E-09	2.41E-09	1.32E-09	6.28E-09	4.98E-12	7.20E-11	1.07E-09	1.07E-09	5.30E-10	2.75E-09
438	259577.1	4085313	5.92E-11	8.57E-10	1.51E-08	1.51E-08	8.43E-09	3.96E-08	8.99E-12	1.31E-10	2.36E-09	2.36E-09	1.30E-09	6.16E-09	4.88E-12	7.06E-11	1.05E-09	1.05E-09	5.20E-10	2.70E-09
439	259568.5	4085336	5.80E-11	8.39E-10	1.48E-08	1.48E-08	8.26E-09	3.88E-08	8.81E-12	1.28E-10	2.31E-09	2.31E-09	1.27E-09	6.04E-09	4.78E-12	6.92E-11	1.03E-09	1.03E-09	5.10E-10	2.64E-09
440	259559.8	4085359	5.69E-11	8.23E-10	1.45E-08	1.45E-08	8.10E-09	3.80E-08	8.63E-12	1.25E-10	2.27E-09	2.27E-09	1.25E-09	5.92E-09	4.69E-12	6.78E-11	1.01E-09	1.01E-09	4.99E-10	2.59E-09
441	259551.1	4085382	5.57E-11	8.06E-10	1.42E-08	1.42E-08	7.94E-09	3.73E-08	8.46E-12	1.23E-10	2.22E-09	2.22E-09	1.22E-09	5.80E-09	4.59E-12	6.65E-11	9.89E-10	9.89E-10	4.89E-10	2.54E-09
442	259542.4	4085405	5.47E-11	7.90E-10	1.40E-08	1.40E-08	7.78E-09	3.65E-08	8.29E-12	1.20E-10	2.18E-09	2.18E-09	1.20E-09	5.69E-09	4.50E-12	6.52E-11	9.70E-10	9.70E-10	4.80E-10	2.49E-09
443	259533.8	4085428	5.36E-11	7.76E-10	1.37E-08	1.37E-08	7.64E-09	3.59E-08	8.14E-12	1.18E-10	2.14E-09	2.14E-09	1.18E-09	5.58E-09	4.42E-12	6.40E-11	9.52E-10	9.52E-10	4.71E-10	2.44E-09
444	259525.1	4085451	5.27E-11	7.63E-10	1.35E-08	1.35E-08	7.51E-09	3.53E-08	8.00E-12	1.16E-10	2.10E-09	2.10E-09	1.16E-09	5.48E-09	4.35E-12	6.29E-11	9.35E-10	9.35E-10	4.63E-10	2.40E-09
445	259516.4	4085474	5.19E-11	7.50E-10	1.32E-08	1.32E-08	7.39E-09	3.47E-08	7.87E-12	1.14E-10	2.07E-09	2.07E-09	1.14E-09	5.40E-09	4.28E-12	6.18E-11	9.20E-10	9.20E-10	4.56E-10	2.36E-09
446	259507.7	4085497	5.12E-11	7.40E-10	1.31E-08	1.31E-08	7.28E-09	3.42E-08	7.76E-12	1.13E-10	2.04E-09	2.04E-09	1.12E-09	5.32E-09	4.22E-12	6.10E-11	9.08E-10	9.08E-10	4.49E-10	2.33E-09
447	259499	4085521	5.05E-11	7.31E-10	1.29E-08	1.29E-08	7.19E-09	3.38E-08	7.67E-12	1.11E-10	2.01E-09	2.01E-09	1.11E-09	5.26E-09	4.16E-12	6.02E-11	8.96E-10	8.96E-10	4.44E-10	2.30E-09
448	259490.4	4085544	5.00E-11	7.23E-10	1.28E-08	1.28E-08	7.12E-09	3.34E-08	7.58E-12	1.10E-10	1.99E-09	1.99E-09	1.10E-09	5.20E-09	4.12E-12	5.96E-11	8.87E-10	8.87E-10	4.39E-10	2.28E-09
449	259481.7	4085567	4.95E-11	7.15E-10	1.26E-08	1.26E-08	7.04E-09	3.31E-08	7.51E-12	1.09E-10	1.97E-09	1.97E-09	1.08E-09	5.15E-09	4.08E-12	5.90E-11	8.78E-10	8.78E-10	4.34E-10	2.25E-09
450	259473	4085590	4.90E-11	7.09E-10	1.25E-08	1.25E-08	6.98E-09	3.28E-08	7.43E-12	1.08E-10	1.95E-09	1.95E-09	1.07E-09	5.10E-09	4.04E-12	5.84E-11	8.69E-10	8.69E-10	4.30E-10	2.23E-09
451	259464.3	4085613	4.85E-11	7.02E-10	1.24E-08	1.24E-08	6.91E-09	3.25E-08	7.37E-12	1.07E-10	1.94E-09	1.94E-09	1.06E-09	5.05E-09	4.00E-12	5.79E-11	8.61E-10	8.61E-10	4.26E-10	2.21E-09
452	259455.7	4085636	4.81E-11	6.96E-10	1.23E-08	1.23E-08	6.85E-09	3.22E-08	7.30E-12	1.06E-10	1.92E-09	1.92E-09	1.05E-09	5.01E-09	3.97E-12	5.74E-11	8.54E-10	8.54E-10	4.23E-10	2.19E-09
453	259447	4085659	4.77E-11	6.89E-10	1.22E-08	1.22E-08	6.79E-09	3.19E-08	7.23E-12	1.05E-10	1.90E-09	1.90E-09	1.05E-09	4.96E-09	3.93E-12	5.68E-11	8.46E-10	8.46E-10	4.19E-10	2.17E-09
454	259438.3	4085682	4.72E-11	6.83E-10	1.21E-08	1.21E-08	6.73E-09	3.16E-08	7.17E-12	1.04E-10	1.88E-09	1.88E-09	1.04E-09	4.91E-09	3.89E-12	5.63E-11	8.38E-10	8.38E-10	4.15E-10	2.15E-09
455	259429.6	4085705	4.68E-11	6.77E-10	1.20E-08	1.20E-08	6.66E-09	3.13E-08	7.10E-12	1.03E-10	1.87E-09	1.87E-09	1.03E-09	4.87E-09	3.86E-12	5.58E-11	8.30E-10	8.30E-10	4.11E-10	2.13E-09
456	259421	4085728	4.63E-11	6.70E-10	1.18E-08	1.18E-08	6.59E-09	3.10E-08	7.03E-12	1.02E-10	1.85E-09	1.85E-09	1.02E-09	4.82E-09	3.82E-12	5.52E-11	8.22E-10	8.22E-10	4.07E-10	2.11E-09
457	259412.3	4085751	4.58E-11	6.63E-10	1.17E-08	1.17E-08	6.52E-09	3.06E-08	6.95E-12	1.01E-10	1.83E-09	1.83E-09	1.00E-09	4.77E-09	3.78E-12	5.46E-11	8.13E-10	8.13E-10	4.02E-10	2.09E-09
458	259403.6	4085774	4.53E-11	6.55E-10	1.16E-08	1.16E-08	6.44E-09	3.03E-08	6.87E-12	9.97E-11	1.80E-09	1.80E-09	9.92E-10	4.71E-09	3.73E-12	5.40E-11	8.03E-10	8.03E-10	3.97E-10	2.06E-09
459	259394.9	4085797	4.47E-11	6.46E-10	1.14E-08	1.14E-08	6.36E-09	2.99E-08	6.78E-12	9.84E-11	1.78E-09	1.78E-09	9.79E-10	4.65E-09	3.68E-12	5.33E-11	7.93E-10	7.93E-10	3.92E-10	2.03E-09
460	259386.2	4085820	4.40E-11	6.37E-10	1.12E-08	1.12E-08	6.27E-09	2.94E-08	6.68E-12	9.70E-11	1.76E-09	1.76E-09	9.66E-10	4.58E-09	3.63E-12	5.25E-11	7.81E-10	7.81E-10	3.87E-10	2.01E-09
461	259377.6	4085843	4.34E-11	6.27E-10	1.11E-08	1.11E-08	6.18E-09	2.90E-08	6.58E-12	9.56E-11	1.73E-09	1.73E-09	9.51E-10	4.51E-09	3.58E-12	5.17E-11	7.70E-10	7.70E-10	3.81E-10	1.98E-09
462	259368.9	4085867	4.27E-11	6.18E-10	1.09E-08	1.09E-08	6.08E-09	2.86E-08	6.48E-12	9.41E-11	1.70E-09	1.70E-09	9.37E-10	4.44E-09	3.52E-12	5.09E-11	7.58E-10	7.58E-10	3.75E-10	1.95E-09
463	259360.2	4085890	4.21E-11	6.09E-10	1.07E-08	1.07E-08	5.99E-09	2.81E-08	6.39E-12	9.27E-11	1.68E-09	1.68E-09	9.23E-10	4.38E-09	3.47E-12	5.02E-11	7.47E-10	7.47E-10	3.70E-10	1.92E-09
464	259351.5	4085913	4.15E-11	6.00E-10	1.06E-08	1.06E-08	5.91E-09	2.77E-08	6.30E-12	9.14E-11	1.65E-09	1.65E-09	9.10E-10	4.32E-09	3.42E-12	4.95E-11	7.36E-10	7.36E-10	3.64E-10	1.89E-09
465	259342.9	4085936	4.09E-11	5.92E-10	1.05E-08	1.05E-08	5.83E-09	2.74E-08	6.21E-12	9.02E-11	1.63E-09	1.63E-09	8.98E-10	4.26E-09	3.37E-12	4.88E-11	7.26E-10	7.26E-10	3.60E-10	1.86E-09
466	259334.2	4085959	4.05E-11	5.86E-10	1.03E-08	1.03E-08	5.77E-09	2.71E-08	6.15E-12	8.92E-11	1.61E-09	1.61E-09	8.88E-10	4.21E-09	3.34E-12	4.83E-11	7.18E-10	7.18E-10	3.56E-10	1.84E-09
467	259325.5	4085982	4.01E-11	5.80E-10	1.02E-08	1.02E-08	5.71E-09	2.68E-08	6.09E-12	8.83E-11	1.60E-09	1.60E-09	8.79E-10	4.17E-09	3.31E-12	4.78E-11	7.11E-10	7.11E-10	3.52E-10	1.83E-09
468	259294.5	4086015	4.01E-11	5.81E-10	1.03E-08	1.03E-08	5.72E-09	2.68E-08	6.09E-12	8.85E-11	1.60E-09	1.60E-09	8.80E-10	4.18E-09	3.31E-12	4.79E-11	7.12E-10	7.12E-10	3.53E-10	1.83E-09

469	259272.1	4086026	4.06E-11	5.87E-10	1.04E-08	1.04E-08	5.78E-09	2.71E-08	6.16E-12	8.94E-11	1.62E-09	1.62E-09	8.89E-10	4.22E-09	3.34E-12	4.84E-11	7.20E-10	7.20E-10	3.56E-10	1.85E-09
470	259249.7	4086036	4.10E-11	5.93E-10	1.05E-08	1.05E-08	5.84E-09	2.74E-08	6.22E-12	9.03E-11	1.63E-09	1.63E-09	8.99E-10	4.26E-09	3.38E-12	4.89E-11	7.27E-10	7.27E-10	3.60E-10	1.87E-09
471	259227.3	4086046	4.14E-11	5.99E-10	1.06E-08	1.06E-08	5.90E-09	2.77E-08	6.29E-12	9.13E-11	1.65E-09	1.65E-09	9.09E-10	4.31E-09	3.42E-12	4.94E-11	7.35E-10	7.35E-10	3.64E-10	1.89E-09
472	259205	4086057	4.19E-11	6.06E-10	1.07E-08	1.07E-08	5.96E-09	2.80E-08	6.35E-12	9.23E-11	1.67E-09	1.67E-09	9.18E-10	4.36E-09	3.45E-12	4.99E-11	7.43E-10	7.43E-10	3.68E-10	1.91E-09
473	259182.6	4086067	4.23E-11	6.12E-10	1.08E-08	1.08E-08	6.02E-09	2.83E-08	6.42E-12	9.32E-11	1.69E-09	1.69E-09	9.27E-10	4.40E-09	3.49E-12	5.04E-11	7.50E-10	7.50E-10	3.71E-10	1.93E-09
474	259160.2	4086077	4.27E-11	6.18E-10	1.09E-08	1.09E-08	6.08E-09	2.86E-08	6.48E-12	9.41E-11	1.70E-09	1.70E-09	9.37E-10	4.44E-09	3.52E-12	5.09E-11	7.58E-10	7.58E-10	3.75E-10	1.95E-09
475	259137.9	4086088	4.32E-11	6.25E-10	1.10E-08	1.10E-08	6.15E-09	2.89E-08	6.56E-12	9.52E-11	1.72E-09	1.72E-09	9.48E-10	4.50E-09	3.56E-12	5.15E-11	7.67E-10	7.67E-10	3.80E-10	1.97E-09
476	259115.5	4086098	4.37E-11	6.33E-10	1.12E-08	1.12E-08	6.23E-09	2.93E-08	6.64E-12	9.64E-11	1.74E-09	1.74E-09	9.59E-10	4.55E-09	3.61E-12	5.22E-11	7.76E-10	7.76E-10	3.84E-10	1.99E-09
477	259093.1	4086108	4.43E-11	6.41E-10	1.13E-08	1.13E-08	6.31E-09	2.96E-08	6.72E-12	9.76E-11	1.77E-09	1.77E-09	9.71E-10	4.61E-09	3.65E-12	5.28E-11	7.86E-10	7.86E-10	3.89E-10	2.02E-09
478	259070.7	4086119	4.49E-11	6.50E-10	1.15E-08	1.15E-08	6.40E-09	3.00E-08	6.82E-12	9.90E-11	1.79E-09	1.79E-09	9.85E-10	4.67E-09	3.70E-12	5.35E-11	7.97E-10	7.97E-10	3.94E-10	2.05E-09
479	259048.4	4086129	4.56E-11	6.60E-10	1.16E-08	1.16E-08	6.49E-09	3.05E-08	6.92E-12	1.00E-10	1.82E-09	1.82E-09	1.00E-09	4.74E-09	3.76E-12	5.44E-11	8.09E-10	8.09E-10	4.00E-10	2.08E-09
480	259026	4086139	4.64E-11	6.71E-10	1.18E-08	1.18E-08	6.60E-09	3.10E-08	7.04E-12	1.02E-10	1.85E-09	1.85E-09	1.02E-09	4.82E-09	3.82E-12	5.53E-11	8.23E-10	8.23E-10	4.07E-10	2.11E-09
481	259003.6	4086150	4.72E-11	6.83E-10	1.21E-08	1.21E-08	6.73E-09	3.16E-08	7.17E-12	1.04E-10	1.88E-09	1.88E-09	1.04E-09	4.91E-09	3.89E-12	5.63E-11	8.38E-10	8.38E-10	4.15E-10	2.15E-09
482	258981.3	4086160	4.82E-11	6.97E-10	1.23E-08	1.23E-08	6.87E-09	3.22E-08	7.32E-12	1.06E-10	1.92E-09	1.92E-09	1.06E-09	5.02E-09	3.97E-12	5.75E-11	8.56E-10	8.56E-10	4.23E-10	2.20E-09
483	258958.9	4086171	4.93E-11	7.13E-10	1.26E-08	1.26E-08	7.02E-09	3.30E-08	7.48E-12	1.09E-10	1.97E-09	1.97E-09	1.08E-09	5.13E-09	4.06E-12	5.88E-11	8.75E-10	8.75E-10	4.33E-10	2.25E-09
484	258936.5	4086181	5.04E-11	7.30E-10	1.29E-08	1.29E-08	7.18E-09	3.37E-08	7.66E-12	1.11E-10	2.01E-09	2.01E-09	1.11E-09	5.25E-09	4.16E-12	6.01E-11	8.95E-10	8.95E-10	4.43E-10	2.30E-09
485	258914.2	4086191	5.16E-11	7.46E-10	1.32E-08	1.32E-08	7.35E-09	3.45E-08	7.83E-12	1.14E-10	2.06E-09	2.06E-09	1.13E-09	5.37E-09	4.25E-12	6.15E-11	9.16E-10	9.16E-10	4.53E-10	2.35E-09
486	258891.8	4086202	5.27E-11	7.63E-10	1.35E-08	1.35E-08	7.51E-09	3.53E-08	8.01E-12	1.16E-10	2.10E-09	2.10E-09	1.16E-09	5.49E-09	4.35E-12	6.29E-11	9.36E-10	9.36E-10	4.63E-10	2.40E-09
487	258869.4	4086212	5.38E-11	7.79E-10	1.37E-08	1.37E-08	7.67E-09	3.60E-08	8.17E-12	1.19E-10	2.15E-09	2.15E-09	1.18E-09	5.60E-09	4.44E-12	6.42E-11	9.55E-10	9.55E-10	4.73E-10	2.45E-09
488	258847	4086222	5.48E-11	7.92E-10	1.40E-08	1.40E-08	7.80E-09	3.66E-08	8.31E-12	1.21E-10	2.18E-09	2.18E-09	1.20E-09	5.70E-09	4.51E-12	6.53E-11	9.72E-10	9.72E-10	4.81E-10	2.49E-09
489	258824.7	4086233	5.56E-11	8.04E-10	1.42E-08	1.42E-08	7.91E-09	3.72E-08	8.44E-12	1.22E-10	2.22E-09	2.22E-09	1.22E-09	5.78E-09	4.58E-12	6.63E-11	9.86E-10	9.86E-10	4.88E-10	2.53E-09
490	258802.3	4086243	5.62E-11	8.13E-10	1.44E-08	1.44E-08	8.01E-09	3.76E-08	8.54E-12	1.24E-10	2.24E-09	2.24E-09	1.23E-09	5.85E-09	4.64E-12	6.70E-11	9.98E-10	9.98E-10	4.94E-10	2.56E-09
491	258779.9	4086253	5.68E-11	8.21E-10	1.45E-08	1.45E-08	8.09E-09	3.80E-08	8.62E-12	1.25E-10	2.26E-09	2.26E-09	1.25E-09	5.91E-09	4.68E-12	6.77E-11	1.01E-09	1.01E-09	4.99E-10	2.59E-09
492	258757.6	4086264	5.72E-11	8.28E-10	1.46E-08	1.46E-08	8.15E-09	3.83E-08	8.68E-12	1.26E-10	2.28E-09	2.28E-09	1.25E-09	5.95E-09	4.72E-12	6.82E-11	1.02E-09	1.02E-09	5.03E-10	2.61E-09
493	258735.2	4086274	5.76E-11	8.33E-10	1.47E-08	1.47E-08	8.20E-09	3.85E-08	8.74E-12	1.27E-10	2.30E-09	2.30E-09	1.26E-09	5.99E-09	4.75E-12	6.87E-11	1.02E-09	1.02E-09	5.06E-10	2.62E-09
494	258712.8	4086284	5.80E-11	8.38E-10	1.48E-08	1.48E-08	8.25E-09	3.88E-08	8.80E-12	1.28E-10	2.31E-09	2.31E-09	1.27E-09	6.03E-09	4.78E-12	6.91E-11	1.03E-09	1.03E-09	5.09E-10	2.64E-09
495	258690.4	4086295	5.83E-11	8.43E-10	1.49E-08	1.49E-08	8.30E-09	3.90E-08	8.85E-12	1.28E-10	2.33E-09	2.33E-09	1.28E-09	6.07E-09	4.81E-12	6.95E-11	1.03E-09	1.03E-09	5.12E-10	2.66E-09
496	258668.1	4086305	5.87E-11	8.49E-10	1.50E-08	1.50E-08	8.36E-09	3.93E-08	8.91E-12	1.29E-10	2.34E-09	2.34E-09	1.29E-09	6.11E-09	4.84E-12	7.00E-11	1.04E-09	1.04E-09	5.16E-10	2.67E-09
497	258645.7	4086315	5.91E-11	8.55E-10	1.51E-08	1.51E-08	8.42E-09	3.95E-08	8.97E-12	1.30E-10	2.36E-09	2.36E-09	1.30E-09	6.15E-09	4.87E-12	7.05E-11	1.05E-09	1.05E-09	5.19E-10	2.69E-09
498	258623.3	4086326	5.96E-11	8.62E-10	1.52E-08	1.52E-08	8.49E-09	3.99E-08	9.05E-12	1.31E-10	2.38E-09	2.38E-09	1.31E-09	6.20E-09	4.92E-12	7.11E-11	1.06E-09	1.06E-09	5.24E-10	2.72E-09
499	258601	4086336	6.02E-11	8.70E-10	1.54E-08	1.54E-08	8.57E-09	4.02E-08	9.13E-12	1.33E-10	2.40E-09	2.40E-09	1.32E-09	6.26E-09	4.96E-12	7.18E-11	1.07E-09	1.07E-09	5.29E-10	2.74E-09
500	258578.6	4086346	6.08E-11	8.80E-10	1.55E-08	1.55E-08	8.66E-09	4.07E-08	9.23E-12	1.34E-10	2.43E-09	2.43E-09	1.33E-09	6.33E-09	5.01E-12	7.25E-11	1.08E-09	1.08E-09	5.34E-10	2.77E-09
501	258556.2	4086357	6.15E-11	8.89E-10	1.57E-08	1.57E-08	8.75E-09	4.11E-08	9.33E-12	1.35E-10	2.45E-09	2.45E-09	1.35E-09	6.40E-09	5.07E-12	7.33E-11	1.09E-09	1.09E-09	5.40E-10	2.80E-09
502	258533.8	4086367	6.22E-11	9.00E-10	1.59E-08	1.59E-08	8.86E-09	4.16E-08	9.44E-12	1.37E-10	2.48E-09	2.48E-09	1.36E-09	6.47E-09	5.13E-12	7.41E-11	1.10E-09	1.10E-09	5.46E-10	2.83E-09
503	258511.5	4086377	6.29E-11	9.10E-10	1.61E-08	1.61E-08	8.96E-09	4.21E-08	9.55E-12	1.39E-10	2.51E-09	2.51E-09	1.38E-09	6.55E-09	5.19E-12	7.50E-11	1.12E-09	1.12E-09	5.53E-10	2.87E-09
504	258489.1	4086388	6.37E-11	9.21E-10	1.63E-08	1.63E-08	9.07E-09	4.26E-08	9.67E-12	1.40E-10	2.54E-09	2.54E-09	1.40E-09	6.63E-09	5.25E-12	7.59E-11	1.13E-09	1.13E-09	5.59E-10	2.90E-09
505	258466.7	4086398	6.45E-11	9.33E-10	1.65E-08	1.65E-08	9.18E-09	4.31E-08	9.79E-12	1.42E-10	2.57E-09	2.57E-09	1.41E-09	6.71E-09	5.32E-12	7.69E-11	1.14E-09	1.14E-09	5.66E-10	2.94E-09
506	258444.4	4086408	6.53E-11	9.44E-10	1.67E-08	1.67E-08	9.29E-09	4.36E-08	9.91E-12	1.44E-10	2.60E-09	2.60E-09	1.43E-09	6.79E-09	5.38E-12	7.78E-11	1.16E-09	1.16E-09	5.73E-10	2.97E-09
507	259663.9	4085082	6.49E-11	9.39E-10	1.66E-08	1.66E-08	9.24E-09	4.34E-08	9.85E-12	1.43E-10	2.59E-09	2.59E-09	1.42E-09	6.75E-09	5.35E-12	7.74E-11	1.15E-09	1.15E-09	5.70E-10	2.96E-09
508	259663.2	4085057	6.59E-11	9.53E-10	1.68E-08	1.68E-08	9.38E-09	4.41E-08	1.00E-11	1.45E-10	2.63E-09	2.63E-09	1.44E-09	6.86E-09	5.43E-12	7.86E-11	1.17E-09	1.17E-09	5.79E-10	3.00E-09
509	259662.5	4085033	6.71E-11	9.71E-10	1.71E-08	1.71E-08	9.56E-09	4.49E-08	1.02E-11	1.48E-10	2.68E-09	2.68E-09	1.47E-09	6.98E-09	5.53E-12	8.00E-11	1.19E-09	1.19E-09	5.89E-10	3.06E-09
510	259661.7	4085008	6.86E-11	9.92E-10	1.75E-08	1.75E-08	9.77E-09	4.59E-08	1.04E-11	1.51E-10	2.74E-09	2.74E-09	1.50E-09	7.14E-09	5.65E-12	8.18E-11	1.22E-09	1.22E-09	6.02E-10	3.12E-09
511	259661	4084983	7.04E-11	1.02E-09	1.80E-08	1.80E-08	1.00E-08	4.71E-08	1.07E-11	1.55E-10	2.81E-09	2.81E-09	1.54E-09	7.32E-09	5.80E-12	8.39E-11	1.25E-09	1.25E-09	6.18E-10	3.20E-09
512	259660.3	4084958	7.25E-11	1.05E-09	1.85E-08	1.85E-08	1.03E-08	4.85E-08	1.10E-11	1.60E-10	2.89E-09	2.89E-09	1.59E-09	7.54E-09	5.97E-12	8.64E-11	1.29E-09	1.29E-09	6.36E-10	3.30E-09
513	259659.6	4084934	7.48E-11	1.08E-09	1.91E-08	1.91E-08	1.06E-08	5.00E-08	1.13E-11	1.65E-10	2.98E-09	2.98E-09	1.64E-09	7.78E-09	6.16E-12	8.91E-11	1.33E-09	1.33E-09	6.57E-10	3.41E-09
514	259658.9	4084909	7.71E-11	1.12E-09	1.97E-08	1.97E-08	1.10E-08	5.16E-08	1.17E-11	1.70E-10	3.08E-09	3.08E-09	1.69E-09	8.03E-09	6.36E-12	9.20E-11	1.37E-09	1.37E-09	6.78E-10	3.51E-09
515	259658.1	4084884	7.95E-11	1.15E-09	2.03E-08	2.03E-08	1.13E-08	5.32E-08	1.21E-11	1.75E-10	3.17E-09	3.17E-09	1.74E-09	8.27E-09	6.56E-12	9.48E-11	1.41E-09	1.41E-09	6.98E-10	3.62E-09
516	259855.1	4085100	5.41E-11	7.83E-10	1.38E-08	1.38E-08	7.71E-09	3.62E-08	8.21E-12	1.19E-10	2.16E-09	2.16E-09	1.19E-09	5.63E-09	4.46E-12	6.45E-11	9.60E-10	9.60E-10	4.75E-10	2.46E-09
517	259846.4	4085123	5.41E-11	7.82E-10	1.38E-08	1.38E-08	7.70E-09	3.62E-08	8.21E-12	1.19E-10	2.16E-09	2.16E-09	1.19E-09	5.63E-09	4.46E-12	6.45E-11	9.60E-10	9.60E-10	4.75E-10	2.46E-09
518	259837.7	4085146	5.41E-11	7.82E-10	1.38E-08	1.38E-08	7.70E-09	3.62E-08	8.21E-12	1.19E-10	2.16E-09	2.16E-09	1.19E-09	5.63E-09	4.46E-12	6.45E-11	9.60E-10	9.60E-10	4.75E-10	2.46E-09
519	259829	4085169	5.40E-11	7.81E-10	1.38E-08	1.38E-08	7.69E-09	3.61E-08	8.20E-12	1.19E-10	2.15E-09	2.15E-09	1.18E-09	5.62E-09	4.45E-12	6.44E-11	9.58E-10	9.58E-10	4.74E-10	2.46E-09
520	259820.3	4085192	5.39E-11	7.80E-10	1.38E-08	1.38E-08	7.68E-09	3.60E-08	8.18E-12	1.19E-10	2.15E-09	2.15E-09	1.18E-09	5.61E-09	4.44E-12	6.43E-11	9.57E-10	9.57E-10	4.73E-10	2.46E-09
521	259811.6	4085215	5.37E-11	7.76E-10	1.37E-08	1.37E-08	7.64E-09	3.59E-08	8.15E-12	1.18E-10	2.14E-09	2.14E-09	1.18E-09	5.58E-09	4.42E-12	6.40E-11	9.52E-10	9.52E-10	4.71E-10	2.44E-09
522	259802.9	4085238	5.33E-11	7.71E-10	1.36E-08	1.36E-08	7.59E-09	3.56E-08	8.09E-12	1.17E-10	2.12E-09	2.12E-09	1.17E-09	5.54E-09	4.39E-12	6.35E-11	9.45E-10	9.45E-10	4.68E-10	2.43E-09
523	259794.2	4085262	5.27E-11	7.63E-10	1.35E-08	1.35E-08	7.51E-09	3.53E-08	8.00E-12	1.16E-10	2.10E-09	2.10E-09	1.16E-09	5.48E-09	4.35E-12	6.29E-11	9.35E-10	9.35E-10	4.63E-10	2.40E-09
524	259785.5	4085285	5.20E-11	7.52E-10	1.33E-08	1.33E-08	7.41E-09	3.48E-08	7.89E-12	1.15E-10	2.07E-09	2.07E-09	1.14E-09	5.41E-09	4.29E-12	6.20E-11	9.23E-10	9.23E-10	4.57E-10	2.37E-09
525	259776.8	4085308	5.12E-11	7.40E-10	1.31E-08	1.31E-08	7.29E-09	3.42E-08	7.77E-12	1.13E-10	2.04E-09	2.04E-09	1.12E-09	5.33E-09	4.22E-12	6.10E-11	9.08E-10	9.08E-10	4.50E-10	2.33E-09
526	259768.1	4085331	5.03E-11	7.28E-10	1.29E-08	1.29E-08	7.16E-09	3.36E-08	7.64E-12	1.11E-10	2.01E-09	2.01E-09	1.10E-09	5.23E-09	4.15E-12	6.00E-11	8.93E-10	8.93E-10	4.42E-10	2.29E-09
527	259759.4	4085354	4.94E-11	7.14E-10	1.26E-08	1.26E-08	7.03E-09	3.30E-08	7.50E-12	1.09E-10	1.97E-09	1.97E-09	1.08E-09	5.14E-09	4.07E-12	5.89E-11	8.76E-10	8.76E-10	4.34E-10	2.25E-09
528	259750.6	4085377	4.85E-11	7.01E-10	1.24E-08	1.24E-08	6.90E-09	3.24E-08	7.36E-12	1.07E-10	1.93E-09	1.93E-09	1.06E-09	5.04E-09	4.00E-12	5.78E-11	8.60E-10	8.60E-10	4.26E-10	2.21E-09
529	259741.9	4085400	4.76E-11	6.88E-10	1.22E-08	1.22E-08	6.78E-09	3.18E-08	7.22E-12	1.05E-10	1.90E-09	1.90E-09	1.04E-09	4.95E-09	3.92E-12	5.67E-11	8.44E-10	8.44E-10	4.18E-10	2.17E-09
530	259733.2	4085424	4.67E-11	6.76E-10	1.19E-08	1.19E-08	6.65E-09	3.12E-08	7.09E-12	1.03E-10	1.86E-09	1.86E-09	1.02E-09	4.86E-09	3.85E-12	5.57E-11	8.29E-10	8.29E-10	4.10E-10	2.13E-09
531	259724.5	4085447	4.59E-11	6.64E-10	1.17E-08	1.17E-08	6.53E-09	3.07E-08	6.96E-12	1.01E-10	1.83E-09	1.83E-09	1.01E-09	4.77E-09	3.78E-12	5.47E-11	8.14E-10	8.14E-10	4.03E-10	2.09E-09
532	259715.8	4085470	4.51E-11	6.53E-10	1.15E-08	1.15E-08	6.43E-09	3.02E-08	6.85E-12	9.94E-11	1.80E-09	1.80E-09	9.89E-10	4.69E-09	3.72E-12	5.38E-11	8.01E-10	8.01E-10	3.96E-10	2.06E-09
533	259707.1	4085493	4.44E-11	6.42E-10	1.13E-08	1.13E-08	6.32E-09	2.97E-08	6.74E-12	9.79E-11	1.77E-09	1.77E-09	9.74E-10	4.62E-09	3.66E-12	5.29E-11	7.88E-10	7.88E-10	3.90E-10	2.02E-09
534	259698.4	4085516	4.38E-11	6.33E-10	1.12E-08	1.12E-08	6.23E-09	2.93E-08	6.64E-12	9.65E-11	1.75E-09	1.75E-09	9.60E-10	4.55E-09	3.61E-12	5.22E-11	7.77E-10	7.77E-10	3.84E-10	1.99E-09
535	259689.7	4085539	4.32E-11	6.24E-10	1.10E-08	1.10E-08	6.15E-09	2.89E-08	6.55E-12	9.51E-11	1.72E-09	1.72E-09	9.46E-10	4.49E-09	3.56E-12	5.15E-11	7.66E-10	7.66E-10	3.79E-10	1.97E-09
536	259681	4085562	4.27E-11	6.18E-10	1.09E-08	1.09E-08	6.08E-09	2.86E-08	6.48E-12	9.41E-11	1.70E-09	1.70E-09	9.37E-10	4.44E-09	3.52E-12	5.09E-11	7.58E-10	7.58E-10	3.75E-10	1.95E-09
537	259672.3	4085586	4.22E-11	6.11E-10	1.08E-08	1.08E-08	6.01E-09	2.82E-08	6.41E-12	9.31E-11	1.68E-09	1.68E-09	9.26E-10	4.39E-09	3.48E-12	5.04E-11	7.49E-10	7.49E-10	3.71E-10	1.92E-09
538	259663.6	4085609	4.18E-11	6.05E-10	1.07E-08	1.07E-08	5.96E-09	2.80E-08	6.35E-12	9.22E-11	1.67E-09	1.67E-09	9.17E-10	4.35E-09	3.45E-12	4.99E-11	7.42E-10	7.42E-10	3.67E-10	1.91E-09
539	259654.9	4085632	4.15E-11	6.00E-10	1.06E-08	1.06E-08	5.91E-09	2.77E-08	6.30E-12	9.14E-11	1.65E-09	1.65E-09	9.10E-10	4.32E-09	3.42E-12	4.95E-11	7.36E-10	7.36E-10	3.64E-10	1.89E-09
540	259646.2	4085655	4.12E-11	5.96E-10	1.05E-08	1.05E-08	5.87E-09	2.76E-08	6.25E-12	9.08E-11	1.64E-09	1.64E-09	9.03E-10	4.29E-09	3.40E-12	4.91E-11	7.31E-10	7.31E-10	3.62E-10	1.88E-09
541	259637.5	4085678	4.09E-11	5.92E-10	1.05E-08	1.05E-08	5.83E-09	2.74E-08	6.21E-12	9.02E-11	1.63E-09	1.63E-09	8.97E-10	4.26E-09	3.37E-12	4.88E-11	7.26E-10	7.26E-10	3.59E-10	1.86E-09
542	259628.8	4085701	4.06E-11	5.88E-10	1.04E-08	1.04E-08	5.78E-09	2.72E-08	6.17E-12	8.95E-11	1.62E-09	1.62E-09	8.91E-10	4.23E-09	3.35E-12	4.84E-11	7.21E-10	7.21E-10	3.57E-10	1.85E-09
543	259620.1	4085724	4.03E-11	5.83E-10	1.03E-08	1.03E-08	5.74E-09	2.70E-08	6.12E-12	8.89E-11	1.61E-09	1.61E-09	8.84E-10	4.20E-09	3.32E-12	4.81E-11	7.16E-10	7.16E-10	3.54E-10	1.84E-09
544	259611.4	4085748	4.00E-11	5.78E-10	1.02E-08	1.02E-08	5.69E-09	2.67E-08	6.07E-12	8.81E-11	1.59E-09	1.59E-09	8.76E-10	4.16E-09	3.29E-12	4.76E-11	7.09E-10	7.09E-10	3.51E-10	1.82E-09
545	259602.6	4085771	3.97E-11	5.74E-10	1.01E-08	1.01E-08	5.65E-09	2.65E-08	6.03E-12	8.75E-11	1.58E-09	1.58E-09	8.70E-10	4.13E-09	3.27E-12	4.73E-11	7.04E-10	7.04E-10	3.49E-10	1.81E-09
546	259593.9	4085794	3.94E-11	5.70E-10	1.01E-08	1.01E-08	5.61E-09	2.64E-08	5.98E-12	8.68E-11	1.57E-09	1.57E-09	8.64E-10	4.10E-09	3.25E-12	4.70E-11	6.99E-10	6.99E-10	3.46E-10	1.79E-09
547	259585.2	4085817	3.91E-11	5.65E-10	9.98E-09	9.98E-09	5.57E-09	2.61E-08	5.93E-12	8.61E-11	1.56E-09	1.56E-09	8.57E-10	4.07E-09	3.22E-12	4.66E-11	6.94E-10	6.94E-10	3.43E-10	1.78E-09
548	259576.5	4085840	3.88E-11	5.61E-10	9.90E-09	9.90E-09	5.52E-09	2.59E-08	5.88E-12	8.54E-11	1.55E-09	1.55E-09	8.50E-10	4.03E-09	3.20E-12	4.62E-11	6.88E-10	6.88E-10	3.41E-10	1.77E-09
549	259567.8	4085863	3.84E-11	5.55E-10	9.81E-09	9.81E-09	5.47E-09	2.57E-08	5.83E-12	8.46E-11	1.53E-09	1.53E-09	8.42E-10	4.00E-09	3.17E-12	4.58E-11	6.81E-10	6.81E-10	3.37E-10	1.75E-09
550	259559.1	4085887	3.80E-11	5.49E-10	9.70E-09	9.70E-09	5.41E-09	2.54E-08	5.76E-12	8.37E-11	1.51E-09	1.51E-09	8.33E-10	3.95E-09	3.13E-12	4.53E-11	6.74E-10	6.74E-10	3.34E-10	1.73E-09
551	259550.4	4085910	3.75E-11	5.43E-10	9.59E-09	9.59E-09	5.34E-09	2.51E-08	5.70E-12	8.27E-11	1.50E-09	1.50E-09	8.23E-10	3.90E-09	3.09E-12	4.47E-11	6.66E-10	6.66E-10	3.30E-10	1.71E-09
552	259541.7	4085933	3.71E-11	5.36E-10	9.46E-09	9.46E-09	5.28E-09	2.48E-08	5.62E-12	8.16E-11	1.48E-09	1.48E-09	8.12E-10	3.85E-09	3.05E-12	4.42E-11	6.57E-10	6.57E-10	3.25E-10	1.69E-09
553	259533	4085956	3.65E-11	5.29E-10	9.33E-09	9.33E-09	5.20E-09	2.44E-08	5.55E-12	8.05E-11	1.46E-09	1.46E-09	8.01E-10	3.80E-09	3.01E-12	4.36E-11	6.48E-10	6.48E-10	3.21E-10	1.66E-09
554	259524.3	4085979	3.60E-11	5.21E-10	9.21E-09	9.21E-09	5.13E-09	2.41E-08	5.47E-12	7.94E-11	1.44E-09	1.44E-09	7.90E-10	3.75E-09	2.97E-12	4.30E-11	6.40E-10	6.40E-10	3.17E-10	1.64E-09
555	259515.6	4086002	3.56E-11	5.14E-10	9.08E-09	9.08E-09	5.06E-09	2.38E-08	5.40E-12	7.84E-11	1.42E-09	1.42E-09	7.80E-10	3.70E-09	2.93E-12	4.24E-11	6.31E-10	6.31E-10	3.12E-10	1.62E-09
556	259506.9	4086025	3.51E-11	5.08E-10	8.97E-09	8.97E-09	5.00E-09	2.35E-08	5.33E-12	7.74E-11	1.40E-09	1.40E-09	7.70E-10	3.65E-09	2.89E-12	4.19E-11	6.23E-10	6.23E-10	3.08E-10	1.60E-09
557	259498.2	4086049	3.47E-11	5.02E-10	8.86E-09	8.86E-09	4.94E-09	2.32E-08	5.27E-12	7.65E-11	1.38E-09	1.38E-09	7.61E-10	3.61E-09	2.86E-12	4.14E-11	6.16E-10	6.16E-10	3.05E-10	1.58E-09
558	259489.5	4086072	3.44E-11	4.97E-10	8.77E-09	8.77E-09	4.89E-09	2.30E-08	5.21E-12	7.57E-11	1.37E-09	1.37E-09	7.53E-10	3.57E-09	2.83E-12	4.10E-11	6.10E-10	6.10E-10	3.02E-10	1.56E-09
559	259480.8	4086095	3.40E-11	4.92E-10	8.69E-09	8.69E-09	4.85E-09	2.28E-08	5.17E-12	7.50E-11	1.36E-09	1.36E-09	7.46E-10	3.54E-09	2.81E-12	4.06E-11	6.04E-10	6.04E-10	2.99E-10	1.55E-09
560	259472.1	4086118	3.37E-11	4.88E-10	8.62E-09	8.62E-09	4.80E-09	2.26E-08	5.12E-12	7.44E-11	1.35E-09	1.35E-09	7.40E-10	3.51E-09	2.78E-12	4.02E-11	5.99E-10	5.99E-10	2.96E-10	1.54E-09
561	259440.9	4086152	3.38E-11	4.88E-10	8.63E-09	8.63E-09	4.81E-09	2.26E-08	5.13E-12	7.44E-11	1.35E-09	1.35E-09	7.40E-10	3.51E-09	2.78E-12	4.03E-11	5.99E-10	5.99E-10	2.97E-10	1.54E-09
562	259418.5	4086162	3.41E-11	4.93E-10	8.71E-09	8.71E-09	4.85E-09	2.28E-08	5.17E-12	7.51E-11	1.36E-09	1.36E-09	7.47E-10	3.55E-09	2.81E-12	4.06E-11	6.05E-10	6.05E-10	2.99E-10	1.55E-09
563	259396	4086172	3.44E-11	4.98E-10	8.79E-09	8.79E-09	4.90E-09	2.30E-08	5.23E-12	7.59E-11	1.37E-09	1.37E-09	7.55E-10	3.58E-09	2.84E-12	4.11E-11	6.11E-10	6.11E-10	3.02E-10	1.57E-09
564	259373.6	4086183	3.48E-11	5.03E-10	8.88E-09	8.88E-09	4.95E-09	2.33E-08	5.28E-12	7.66E-11	1.39E-09	1.39E-09	7.62E-10	3.62E-09	2.87E-12	4.15E-11	6.17E-10	6.17E-10	3.05E-10	1.58E-09
565	259351.1	4086193	3.51E-11	5.08E-10	8.98E-09	8.98E-09	5.00E-09	2.35E-08	5.33E-12	7.74E-11	1.40E-09	1.40E-09	7.71E-10	3.66E-09	2.90E-12	4.19E-11	6.24E-10	6.24E-10	3.09E-10	1.60E-09
566	259328.7	4086203	3.55E-11	5.13E-10	9.06E-09	9.06E-09	5.05E-09	2.37E-08	5.39E-12	7.82E-11	1.42E-09	1.42E-09	7.78E-10	3.69E-09	2.93E-12	4.23E-11	6.30E-10	6.30E-10	3.12E-10	1.62E-09
567	259306.2	4086214	3.59E-11	5.19E-10	9.16E-09	9.16E-09	5.11E-09	2.40E-08	5.44E-12	7.90E-11	1.43E-09	1.43E-09	7.86E-10	3.73E-09	2.96E-12	4.28E-11	6.36E-10	6.36E-10	3.15E-10	1.63E-09
568	259283.8	4086224	3.62E-11	5.24E-10	9.25E-09	9.25E-09	5.16E-09	2.42E-08	5.50E-12	7.98E-11	1.44E-09	1.44E-09	7.94E-10	3.77E-09	2.99E-12	4.32E-11	6.43E-10	6.43E-10	3.18E-10	1.65E-09
569	259261.3	4086235	3.66E-11	5.30E-10	9.36E-09	9.36E-09	5.22E-09	2.45E-08	5.56E-12	8.07E-11	1.46E-09	1.46E-09	8.03E-10	3.81E-09	3.02E-12	4.37E-11	6.50E-10	6.50E-10	3.22E-10	1.67E-09
570	259238.9	4086245	3.71E-11	5.36E-10	9.46E-09	9.46E-09	5.28E-09	2.48E-08	5.62E-12	8.16E-11	1.48E-09	1.48E-09	8.12E-10	3.85E-09	3.05E-12	4.42E-11	6.57E-10	6.57E-10	3.25E-10	1.69E-09
571	259216.4	4086255	3.75E-11	5.42E-10	9.58E-09	9.58E-09	5.34E-09	2.51E-08	5.69E-12	8.26E-11	1.50E-09	1.50E-09	8.22E-10	3.90E-09	3.09E-12	4.47E-11	6.65E-10	6.65E-10	3.29E-10	1.71E-09
572	259194	4086266	3.80E-11	5.49E-10	9.70E-09	9.70E-09	5.41E-09	2.54E-08	5.76E-12	8.37E-11	1.51E-09	1.51E-09	8.33E-10	3.95E-09	3.13E-12	4.53E-11	6.74E-10	6.74E-10	3.34E-10	1.73E-09
573	259171.6	4086276	3.85E-11	5.57E-10	9.84E-09	9.84E-09	5.48E-09	2.57E-08	5.84E-12	8.48E-11	1.54E-09	1.54E-09	8.44E-10	4.01E-09	3.17E-12	4.59E-11	6.83E-10	6.83E-10	3.38E-10	1.75E-09
574	259149.1	4086286	3.91E-11	5.65E-10	9.98E-09	9.98E-09	5.57E-09	2.61E-08	5.93E-12	8.61E-11	1.56E-09	1.56E-09	8.57E-10	4.07E-09	3.22E-12	4.66E-11	6.94E-10	6.94E-10	3.43E-10	1.78E-09
575	259126.7	4086297	3.97E-11	5.75E-10	1.01E-08	1.01E-08	5.66E-09	2.66E-08	6.03E-12	8.75E-11	1.58E-09	1.58E-09	8.71E-10	4.13E-09	3.27E-12	4.74E-11	7.05E-10	7.05E-10	3.49E-10	1.81E-09
576	259104.2	4086307	4.04E-11	5.85E-10	1.03E-08	1.03E-08	5.76E-09	2.70E-08	6.14E-12	8.91E-11	1.61E-09	1.61E-09	8.87E-10	4.21E-09	3.33E-12	4.82E-11	7.18E-10	7.18E-10	3.55E-10	1.84E-09
577	259081.8	4086318	4.12E-11	5.96E-10	1.05E-08	1.05E-08	5.87E-09	2.76E-08	6.26E-12	9.09E-11	1.64E-09	1.64E-09	9.04E-10	4.29E-09	3.40E-12	4.92E-11	7.32E-10	7.32E-10	3.62E-10	1.88E-09
578	259059.3	4086328	4.21E-11	6.09E-10	1.07E-08	1.07E-08	5.99E-09	2.81E-08	6.39E-12	9.27E-11	1.68E-09	1.68E-09	9.23E-10	4.38E-09	3.47E-12	5.02E-11	7.47E-10	7.47E-10	3.70E-10	1.92E-09
579	259036.9	4086338	4.30E-11	6.22E-10	1.10E-08	1.10E-08	6.12E-09	2.87E-08	6.52E-12	9.47E-11	1.71E-09	1.71E-09	9.42E-10	4.47E-09	3.54E-12	5.12E-11	7.63E-10	7.63E-10	3.77E-10	1.96E-09
580	259014.4	4086349	4.39E-11	6.35E-10	1.12E-08	1.12E-08	6.25E-09	2.94E-08	6.66E-12	9.67E-11	1.75E-09	1.75E-09	9.63E-10	4.57E-09	3.62E-12	5.23E-11	7.79E-10	7.79E-10	3.86E-10	2.00E-09
581	258992	4086359	4.48E-11	6.48E-10	1.15E-08	1.15E-08	6.38E-09	3.00E-08	6.80E-12	9.88E-11	1.79E-09	1.79E-09	9.83E-10	4.66E-09	3.70E-12	5.35E-11	7.95E-10	7.95E-10	3.94E-10	2.04E-09
582	258969.5	4086370	4.57E-11	6.61E-10	1.17E-08	1.17E-08	6.51E-09	3.06E-08	6.94E-12	1.01E-10	1.82E-09	1.82E-09	1.00E-09	4.76E-09	3.77E-12	5.45E-11	8.11E-10	8.11E-10	4.01E-10	2.08E-09
583	258947.1	4086380	4.65E-11	6.73E-10	1.19E-08	1.19E-08	6.63E-09	3.11E-08	7.06E-12	1.03E-10	1.86E-09	1.86E-09	1.02E-09	4.84E-09	3.84E-12	5.55E-11	8.26E-10	8.26E-10	4.09E-10	2.12E-09
584	258924.6	4086390	4.72E-11	6.83E-10	1.21E-08	1.21E-08	6.72E-09	3.16E-08	7.17E-12	1.04E-10	1.88E-09	1.88E-09	1.04E-09	4.91E-09	3.89E-12	5.63E-11	8.38E-10	8.38E-10	4.15E-10	2.15E-09
585	258902.2	4086401	4.78E-11	6.91E-10	1.22E-08	1.22E-08	6.81E-09	3.20E-08	7.25E-12	1.05E-10	1.91E-09	1.91E-09	1.05E-09	4.97E-09	3.94E-12	5.70E-11	8.48E-10	8.48E-10	4.20E-10	2.18E-09
586	258879.8	4086411	4.83E-11	6.98E-10	1.23E-08	1.23E-08	6.87E-09	3.23E-08	7.33E-12	1.06E-10	1.93E-09	1.93E-09	1.06E-09	5.02E-09	3.98E-12	5.76E-11	8.56E-10	8.56E-10	4.24E-10	2.20E-09

587	258857.3	4086421	4.86E-11	7.04E-10	1.24E-08	1.24E-08	6.93E-09	3.25E-08	7.38E-12	1.07E-10	1.94E-09	1.94E-09	1.07E-09	5.06E-09	4.01E-12	5.80E-11	8.63E-10	8.63E-10	4.27E-10	2.22E-09
588	258834.9	4086432	4.89E-11	7.08E-10	1.25E-08	1.25E-08	6.97E-09	3.27E-08	7.43E-12	1.08E-10	1.95E-09	1.95E-09	1.07E-09	5.09E-09	4.03E-12	5.83E-11	8.68E-10	8.68E-10	4.30E-10	2.23E-09
589	258812.4	4086442	4.92E-11	7.12E-10	1.26E-08	1.26E-08	7.01E-09	3.29E-08	7.47E-12	1.08E-10	1.96E-09	1.96E-09	1.08E-09	5.12E-09	4.06E-12	5.87E-11	8.73E-10	8.73E-10	4.32E-10	2.24E-09
590	258790	4086453	4.94E-11	7.15E-10	1.26E-08	1.26E-08	7.04E-09	3.30E-08	7.50E-12	1.09E-10	1.97E-09	1.97E-09	1.08E-09	5.14E-09	4.07E-12	5.89E-11	8.77E-10	8.77E-10	4.34E-10	2.25E-09
591	258767.5	4086463	4.97E-11	7.18E-10	1.27E-08	1.27E-08	7.07E-09	3.32E-08	7.54E-12	1.09E-10	1.98E-09	1.98E-09	1.09E-09	5.17E-09	4.09E-12	5.92E-11	8.81E-10	8.81E-10	4.36E-10	2.26E-09
592	258745.1	4086473	4.99E-11	7.22E-10	1.27E-08	1.27E-08	7.10E-09	3.34E-08	7.57E-12	1.10E-10	1.99E-09	1.99E-09	1.09E-09	5.19E-09	4.11E-12	5.95E-11	8.85E-10	8.85E-10	4.38E-10	2.27E-09
593	258722.6	4086484	5.02E-11	7.25E-10	1.28E-08	1.28E-08	7.14E-09	3.35E-08	7.61E-12	1.11E-10	2.00E-09	2.00E-09	1.10E-09	5.22E-09	4.13E-12	5.98E-11	8.90E-10	8.90E-10	4.40E-10	2.28E-09
594	258700.2	4086494	5.04E-11	7.30E-10	1.29E-08	1.29E-08	7.18E-09	3.37E-08	7.66E-12	1.11E-10	2.01E-09	2.01E-09	1.11E-09	5.25E-09	4.16E-12	6.01E-11	8.95E-10	8.95E-10	4.43E-10	2.30E-09
595	258677.7	4086504	5.08E-11	7.35E-10	1.30E-08	1.30E-08	7.23E-09	3.40E-08	7.71E-12	1.12E-10	2.03E-09	2.03E-09	1.11E-09	5.28E-09	4.19E-12	6.06E-11	9.01E-10	9.01E-10	4.46E-10	2.31E-09
596	258655.3	4086515	5.12E-11	7.40E-10	1.31E-08	1.31E-08	7.29E-09	3.42E-08	7.77E-12	1.13E-10	2.04E-09	2.04E-09	1.12E-09	5.33E-09	4.22E-12	6.10E-11	9.08E-10	9.08E-10	4.50E-10	2.33E-09
597	258632.8	4086525	5.16E-11	7.46E-10	1.32E-08	1.32E-08	7.35E-09	3.45E-08	7.83E-12	1.14E-10	2.06E-09	2.06E-09	1.13E-09	5.37E-09	4.25E-12	6.15E-11	9.16E-10	9.16E-10	4.53E-10	2.35E-09
598	258610.4	4086536	5.21E-11	7.53E-10	1.33E-08	1.33E-08	7.41E-09	3.48E-08	7.90E-12	1.15E-10	2.08E-09	2.08E-09	1.14E-09	5.42E-09	4.29E-12	6.21E-11	9.24E-10	9.24E-10	4.57E-10	2.37E-09
599	258588	4086546	5.26E-11	7.60E-10	1.34E-08	1.34E-08	7.48E-09	3.51E-08	7.98E-12	1.16E-10	2.10E-09	2.10E-09	1.15E-09	5.47E-09	4.33E-12	6.27E-11	9.33E-10	9.33E-10	4.62E-10	2.39E-09
600	258565.5	4086556	5.31E-11	7.68E-10	1.36E-08	1.36E-08	7.56E-09	3.55E-08	8.06E-12	1.17E-10	2.12E-09	2.12E-09	1.16E-09	5.52E-09	4.38E-12	6.33E-11	9.42E-10	9.42E-10	4.66E-10	2.42E-09
601	258543.1	4086567	5.36E-11	7.76E-10	1.37E-08	1.37E-08	7.64E-09	3.59E-08	8.14E-12	1.18E-10	2.14E-09	2.14E-09	1.18E-09	5.58E-09	4.42E-12	6.40E-11	9.52E-10	9.52E-10	4.71E-10	2.44E-09
602	258520.6	4086577	5.42E-11	7.84E-10	1.38E-08	1.38E-08	7.72E-09	3.62E-08	8.23E-12	1.19E-10	2.16E-09	2.16E-09	1.19E-09	5.64E-09	4.47E-12	6.46E-11	9.62E-10	9.62E-10	4.76E-10	2.47E-09
603	258498.2	4086588	5.48E-11	7.92E-10	1.40E-08	1.40E-08	7.80E-09	3.66E-08	8.31E-12	1.21E-10	2.18E-09	2.18E-09	1.20E-09	5.70E-09	4.51E-12	6.53E-11	9.72E-10	9.72E-10	4.81E-10	2.49E-09
604	258475.7	4086598	5.53E-11	8.00E-10	1.41E-08	1.41E-08	7.87E-09	3.70E-08	8.39E-12	1.22E-10	2.20E-09	2.20E-09	1.21E-09	5.75E-09	4.56E-12	6.59E-11	9.81E-10	9.81E-10	4.86E-10	2.52E-09
605	258453.3	4086608	5.58E-11	8.07E-10	1.42E-08	1.42E-08	7.94E-09	3.73E-08	8.47E-12	1.23E-10	2.22E-09	2.22E-09	1.22E-09	5.80E-09	4.60E-12	6.65E-11	9.90E-10	9.90E-10	4.90E-10	2.54E-09
606	259863.8	4085076	5.42E-11	7.84E-10	1.38E-08	1.38E-08	7.72E-09	3.62E-08	8.23E-12	1.19E-10	2.16E-09	2.16E-09	1.19E-09	5.64E-09	4.47E-12	6.46E-11	9.62E-10	9.62E-10	4.76E-10	2.47E-09
607	259863.1	4085052	5.49E-11	7.94E-10	1.40E-08	1.40E-08	7.81E-09	3.67E-08	8.33E-12	1.21E-10	2.19E-09	2.19E-09	1.20E-09	5.71E-09	4.52E-12	6.54E-11	9.73E-10	9.73E-10	4.82E-10	2.50E-09
608	259862.4	4085027	5.57E-11	8.06E-10	1.42E-08	1.42E-08	7.93E-09	3.73E-08	8.46E-12	1.23E-10	2.22E-09	2.22E-09	1.22E-09	5.80E-09	4.59E-12	6.64E-11	9.88E-10	9.88E-10	4.89E-10	2.54E-09
609	259861.7	4085002	5.68E-11	8.22E-10	1.45E-08	1.45E-08	8.09E-09	3.80E-08	8.62E-12	1.25E-10	2.27E-09	2.27E-09	1.25E-09	5.91E-09	4.68E-12	6.77E-11	1.01E-09	1.01E-09	4.99E-10	2.59E-09
610	259860.9	4084977	5.82E-11	8.41E-10	1.49E-08	1.49E-08	8.28E-09	3.89E-08	8.83E-12	1.28E-10	2.32E-09	2.32E-09	1.28E-09	6.05E-09	4.80E-12	6.94E-11	1.03E-09	1.03E-09	5.11E-10	2.65E-09
611	259860.2	4084953	5.97E-11	8.64E-10	1.52E-08	1.52E-08	8.50E-09	3.99E-08	9.06E-12	1.32E-10	2.38E-09	2.38E-09	1.31E-09	6.21E-09	4.92E-12	7.12E-11	1.06E-09	1.06E-09	5.24E-10	2.72E-09
612	259859.5	4084928	6.14E-11	8.88E-10	1.57E-08	1.57E-08	8.75E-09	4.11E-08	9.32E-12	1.35E-10	2.45E-09	2.45E-09	1.35E-09	6.39E-09	5.06E-12	7.32E-11	1.09E-09	1.09E-09	5.39E-10	2.80E-09
613	259858.8	4084903	6.33E-11	9.15E-10	1.62E-08	1.62E-08	9.01E-09	4.23E-08	9.60E-12	1.39E-10	2.52E-09	2.52E-09	1.39E-09	6.58E-09	5.21E-12	7.54E-11	1.12E-09	1.12E-09	5.56E-10	2.88E-09
614	259858	4084878	6.51E-11	9.41E-10	1.66E-08	1.66E-08	9.27E-09	4.35E-08	9.88E-12	1.43E-10	2.60E-09	2.60E-09	1.43E-09	6.77E-09	5.36E-12	7.76E-11	1.15E-09	1.15E-09	5.72E-10	2.96E-09
615	258357.7	4084897	6.31E-09	9.13E-08	1.61E-06	1.61E-06	8.99E-07	4.22E-06	9.58E-10	1.39E-08	2.52E-07	2.52E-07	1.38E-07	6.57E-07	5.20E-10	7.53E-09	1.12E-07	1.12E-07	5.54E-08	2.87E-07
616	258333.3	4084898	6.61E-09	9.56E-08	1.69E-06	1.69E-06	9.41E-07	4.42E-06	1.00E-09	1.46E-08	2.64E-07	2.64E-07	1.45E-07	6.88E-07	5.45E-10	7.88E-09	1.17E-07	1.17E-07	5.80E-08	3.01E-07
617	258309	4084899	6.76E-09	9.78E-08	1.73E-06	1.73E-06	9.63E-07	4.52E-06	1.03E-09	1.49E-08	2.70E-07	2.70E-07	1.48E-07	7.03E-07	5.57E-10	8.06E-09	1.20E-07	1.20E-07	5.94E-08	3.08E-07
618	258284.7	4084900	6.86E-09	9.93E-08	1.75E-06	1.75E-06	9.77E-07	4.59E-06	1.04E-09	1.51E-08	2.74E-07	2.74E-07	1.50E-07	7.14E-07	5.66E-10	8.18E-09	1.22E-07	1.22E-07	6.03E-08	3.13E-07
619	258260.3	4084901	6.93E-09	1.00E-07	1.77E-06	1.77E-06	9.87E-07	4.64E-06	1.05E-09	1.53E-08	2.76E-07	2.76E-07	1.52E-07	7.21E-07	5.71E-10	8.27E-09	1.23E-07	1.23E-07	6.09E-08	3.16E-07
620	258236	4084902	6.98E-09	1.01E-07	1.78E-06	1.78E-06	9.94E-07	4.67E-06	1.06E-09	1.54E-08	2.78E-07	2.78E-07	1.53E-07	7.26E-07	5.76E-10	8.32E-09	1.24E-07	1.24E-07	6.13E-08	3.18E-07
621	258211.7	4084903	7.01E-09	1.01E-07	1.79E-06	1.79E-06	9.98E-07	4.69E-06	1.06E-09	1.54E-08	2.80E-07	2.80E-07	1.54E-07	7.29E-07	5.78E-10	8.36E-09	1.24E-07	1.24E-07	6.16E-08	3.19E-07
622	258187.3	4084904	7.03E-09	1.02E-07	1.79E-06	1.79E-06	1.00E-06	4.70E-06	1.07E-09	1.55E-08	2.80E-07	2.80E-07	1.54E-07	7.31E-07	5.79E-10	8.38E-09	1.25E-07	1.25E-07	6.17E-08	3.20E-07
623	258163	4084905	7.03E-09	1.02E-07	1.80E-06	1.80E-06	1.00E-06	4.70E-06	1.07E-09	1.55E-08	2.80E-07	2.80E-07	1.54E-07	7.31E-07	5.79E-10	8.38E-09	1.25E-07	1.25E-07	6.17E-08	3.20E-07
624	258138.7	4084906	7.02E-09	1.02E-07	1.79E-06	1.79E-06	1.00E-06	4.70E-06	1.07E-09	1.55E-08	2.80E-07	2.80E-07	1.54E-07	7.31E-07	5.79E-10	8.37E-09	1.25E-07	1.25E-07	6.17E-08	3.20E-07
625	258114.3	4084907	7.01E-09	1.01E-07	1.79E-06	1.79E-06	9.99E-07	4.69E-06	1.06E-09	1.55E-08	2.80E-07	2.80E-07	1.54E-07	7.30E-07	5.78E-10	8.36E-09	1.24E-07	1.24E-07	6.16E-08	3.19E-07
626	258090	4084908	7.00E-09	1.01E-07	1.79E-06	1.79E-06	9.96E-07	4.68E-06	1.06E-09	1.54E-08	2.79E-07	2.79E-07	1.53E-07	7.28E-07	5.77E-10	8.34E-09	1.24E-07	1.24E-07	6.14E-08	3.19E-07
627	258065.7	4084909	6.97E-09	1.01E-07	1.78E-06	1.78E-06	9.93E-07	4.66E-06	1.06E-09	1.54E-08	2.78E-07	2.78E-07	1.53E-07	7.25E-07	5.75E-10	8.31E-09	1.24E-07	1.24E-07	6.12E-08	3.18E-07
628	258041.3	4084910	6.94E-09	1.00E-07	1.77E-06	1.77E-06	9.89E-07	4.64E-06	1.05E-09	1.53E-08	2.77E-07	2.77E-07	1.52E-07	7.22E-07	5.72E-10	8.28E-09	1.23E-07	1.23E-07	6.10E-08	3.16E-07
629	258017	4084911	6.91E-09	9.99E-08	1.76E-06	1.76E-06	9.83E-07	4.62E-06	1.05E-09	1.52E-08	2.75E-07	2.75E-07	1.51E-07	7.19E-07	5.69E-10	8.23E-09	1.23E-07	1.23E-07	6.07E-08	3.15E-07
630	257992.7	4084912	6.86E-09	9.93E-08	1.75E-06	1.75E-06	9.77E-07	4.59E-06	1.04E-09	1.51E-08	2.74E-07	2.74E-07	1.50E-07	7.14E-07	5.66E-10	8.18E-09	1.22E-07	1.22E-07	6.03E-08	3.13E-07
631	257968.3	4084913	6.81E-09	9.85E-08	1.74E-06	1.74E-06	9.70E-07	4.55E-06	1.03E-09	1.50E-08	2.72E-07	2.72E-07	1.49E-07	7.09E-07	5.61E-10	8.12E-09	1.21E-07	1.21E-07	5.98E-08	3.10E-07
632	257944	4084914	6.75E-09	9.76E-08	1.72E-06	1.72E-06	9.61E-07	4.51E-06	1.02E-09	1.49E-08	2.69E-07	2.69E-07	1.48E-07	7.02E-07	5.56E-10	8.05E-09	1.20E-07	1.20E-07	5.93E-08	3.07E-07
633	257919.7	4084915	6.68E-09	9.66E-08	1.71E-06	1.71E-06	9.51E-07	4.46E-06	1.01E-09	1.47E-08	2.66E-07	2.66E-07	1.46E-07	6.95E-07	5.50E-10	7.96E-09	1.18E-07	1.18E-07	5.86E-08	3.04E-07
634	257895.4	4084916	6.59E-09	9.53E-08	1.68E-06	1.68E-06	9.38E-07	4.40E-06	1.00E-09	1.45E-08	2.63E-07	2.63E-07	1.44E-07	6.85E-07	5.43E-10	7.85E-09	1.17E-07	1.17E-07	5.79E-08	3.00E-07
635	257871	4084917	6.48E-09	9.37E-08	1.66E-06	1.66E-06	9.23E-07	4.33E-06	9.84E-10	1.43E-08	2.58E-07	2.58E-07	1.42E-07	6.74E-07	5.34E-10	7.73E-09	1.15E-07	1.15E-07	5.69E-08	2.95E-07
636	257846.7	4084918	6.35E-09	9.19E-08	1.62E-06	1.62E-06	9.04E-07	4.25E-06	9.64E-10	1.40E-08	2.53E-07	2.53E-07	1.39E-07	6.61E-07	5.24E-10	7.57E-09	1.13E-07	1.13E-07	5.58E-08	2.89E-07
637	257822.4	4084919	6.20E-09	8.97E-08	1.58E-06	1.58E-06	8.83E-07	4.15E-06	9.41E-10	1.37E-08	2.47E-07	2.47E-07	1.36E-07	6.45E-07	5.11E-10	7.39E-09	1.10E-07	1.10E-07	5.45E-08	2.82E-07
638	257798	4084920	6.01E-09	8.70E-08	1.54E-06	1.54E-06	8.56E-07	4.02E-06	9.13E-10	1.33E-08	2.40E-07	2.40E-07	1.32E-07	6.26E-07	4.96E-10	7.17E-09	1.07E-07	1.07E-07	5.28E-08	2.74E-07
639	257773.7	4084921	5.79E-09	8.38E-08	1.48E-06	1.48E-06	8.25E-07	3.87E-06	8.79E-10	1.28E-08	2.31E-07	2.31E-07	1.27E-07	6.02E-07	4.77E-10	6.90E-09	1.03E-07	1.03E-07	5.09E-08	2.64E-07
640	257749.4	4084922	5.52E-09	7.99E-08	1.41E-06	1.41E-06	7.86E-07	3.69E-06	8.38E-10	1.22E-08	2.20E-07	2.20E-07	1.21E-07	5.75E-07	4.55E-10	6.58E-09	9.80E-08	9.80E-08	4.85E-08	2.51E-07
641	257725	4084923	5.20E-09	7.52E-08	1.33E-06	1.33E-06	7.40E-07	3.47E-06	7.89E-10	1.15E-08	2.07E-07	2.07E-07	1.14E-07	5.41E-07	4.28E-10	6.20E-09	9.22E-08	9.22E-08	4.56E-08	2.37E-07
642	257700.7	4084924	4.80E-09	6.94E-08	1.23E-06	1.23E-06	6.84E-07	3.21E-06	7.29E-10	1.06E-08	1.91E-07	1.91E-07	1.05E-07	5.00E-07	3.96E-10	5.72E-09	8.52E-08	8.52E-08	4.22E-08	2.19E-07
643	257676.4	4084925	4.32E-09	6.24E-08	1.10E-06	1.10E-06	6.15E-07	2.89E-06	6.55E-10	9.51E-09	1.72E-07	1.72E-07	9.46E-08	4.49E-07	3.56E-10	5.15E-09	7.66E-08	7.66E-08	3.79E-08	1.97E-07
644	257652	4084926	3.72E-09	5.38E-08	9.51E-07	9.51E-07	5.30E-07	2.49E-06	5.65E-10	8.20E-09	1.48E-07	1.48E-07	8.16E-08	3.87E-07	3.07E-10	4.44E-09	6.60E-08	6.60E-08	3.27E-08	1.69E-07
645	257627.7	4084927	2.99E-09	4.33E-08	7.64E-07	7.64E-07	4.26E-07	2.00E-06	4.54E-10	6.59E-09	1.19E-07	1.19E-07	6.56E-08	3.11E-07	2.47E-10	3.57E-09	5.31E-08	5.31E-08	2.63E-08	1.36E-07
646	257603.4	4084928	2.14E-09	3.09E-08	5.46E-07	5.46E-07	3.05E-07	1.43E-06	3.25E-10	4.71E-09	8.53E-08	8.53E-08	4.69E-08	2.23E-07	1.76E-10	2.55E-09	3.79E-08	3.79E-08	1.88E-08	9.74E-08
647	257579	4084929	1.34E-09	1.93E-08	3.41E-07	3.41E-07	1.90E-07	8.94E-07	2.03E-10	2.95E-09	5.33E-08	5.33E-08	2.93E-08	1.39E-07	1.10E-10	1.59E-09	2.37E-08	2.37E-08	1.17E-08	6.09E-08
648	257554.7	4084930	9.04E-10	1.31E-08	2.31E-07	2.31E-07	1.29E-07	6.04E-07	1.37E-10	1.99E-09	3.60E-08	3.60E-08	1.98E-08	9.40E-08	7.45E-11	1.08E-09	1.60E-08	1.60E-08	7.94E-09	4.12E-08
649	258374.7	4084879	4.69E-09	6.78E-08	1.20E-06	1.20E-06	6.67E-07	3.13E-06	7.11E-10	1.03E-08	1.87E-07	1.87E-07	1.03E-07	4.88E-07	3.86E-10	5.59E-09	8.32E-08	8.32E-08	4.12E-08	2.13E-07
650	258332.3	4084873	4.59E-09	6.64E-08	1.17E-06	1.17E-06	6.54E-07	3.07E-06	6.97E-10	1.01E-08	1.83E-07	1.83E-07	1.01E-07	4.78E-07	3.79E-10	5.48E-09	8.15E-08	8.15E-08	4.03E-08	2.09E-07
651	258308	4084874	4.67E-09	6.76E-08	1.19E-06	1.19E-06	6.65E-07	3.12E-06	7.09E-10	1.03E-08	1.86E-07	1.86E-07	1.02E-07	4.86E-07	3.85E-10	5.57E-09	8.29E-08	8.29E-08	4.10E-08	2.13E-07
652	258283.6	4084875	4.72E-09	6.83E-08	1.21E-06	1.21E-06	6.73E-07	3.16E-06	7.17E-10	1.04E-08	1.88E-07	1.88E-07	1.04E-07	4.91E-07	3.89E-10	5.63E-09	8.38E-08	8.38E-08	4.15E-08	2.15E-07
653	258259.3	4084876	4.76E-09	6.88E-08	1.22E-06	1.22E-06	6.78E-07	3.18E-06	7.22E-10	1.05E-08	1.90E-07	1.90E-07	1.04E-07	4.95E-07	3.92E-10	5.67E-09	8.45E-08	8.45E-08	4.18E-08	2.17E-07
654	258235	4084877	4.78E-09	6.92E-08	1.22E-06	1.22E-06	6.81E-07	3.20E-06	7.26E-10	1.05E-08	1.91E-07	1.91E-07	1.05E-07	4.98E-07	3.94E-10	5.70E-09	8.49E-08	8.49E-08	4.20E-08	2.18E-07
655	258210.6	4084878	4.80E-09	6.94E-08	1.23E-06	1.23E-06	6.84E-07	3.21E-06	7.29E-10	1.06E-08	1.91E-07	1.91E-07	1.05E-07	4.99E-07	3.96E-10	5.72E-09	8.52E-08	8.52E-08	4.22E-08	2.19E-07
656	258186.3	4084879	4.81E-09	6.96E-08	1.23E-06	1.23E-06	6.85E-07	3.22E-06	7.30E-10	1.06E-08	1.92E-07	1.92E-07	1.05E-07	5.00E-07	3.96E-10	5.73E-09	8.53E-08	8.53E-08	4.22E-08	2.19E-07
657	258162	4084880	4.81E-09	6.96E-08	1.23E-06	1.23E-06	6.85E-07	3.22E-06	7.30E-10	1.06E-08	1.92E-07	1.92E-07	1.05E-07	5.00E-07	3.97E-10	5.74E-09	8.54E-08	8.54E-08	4.23E-08	2.19E-07
658	258137.6	4084881	4.81E-09	6.95E-08	1.23E-06	1.23E-06	6.84E-07	3.21E-06	7.29E-10	1.06E-08	1.92E-07	1.92E-07	1.05E-07	5.00E-07	3.96E-10	5.73E-09	8.53E-08	8.53E-08	4.22E-08	2.19E-07
659	258113.3	4084882	4.80E-09	6.94E-08	1.22E-06	1.22E-06	6.83E-07	3.21E-06	7.28E-10	1.06E-08	1.91E-07	1.91E-07	1.05E-07	4.99E-07	3.95E-10	5.72E-09	8.51E-08	8.51E-08	4.21E-08	2.18E-07
660	258089	4084883	4.78E-09	6.91E-08	1.22E-06	1.22E-06	6.80E-07	3.19E-06	7.25E-10	1.05E-08	1.91E-07	1.91E-07	1.05E-07	4.97E-07	3.94E-10	5.70E-09	8.48E-08	8.48E-08	4.20E-08	2.18E-07
661	258064.6	4084884	4.75E-09	6.88E-08	1.21E-06	1.21E-06	6.77E-07	3.18E-06	7.22E-10	1.05E-08	1.90E-07	1.90E-07	1.04E-07	4.95E-07	3.92E-10	5.67E-09	8.43E-08	8.43E-08	4.18E-08	2.17E-07
662	258040.3	4084885	4.72E-09	6.83E-08	1.21E-06	1.21E-06	6.73E-07	3.16E-06	7.17E-10	1.04E-08	1.88E-07	1.88E-07	1.04E-07	4.91E-07	3.89E-10	5.63E-09	8.38E-08	8.38E-08	4.15E-08	2.15E-07
663	258016	4084886	4.69E-09	6.78E-08	1.20E-06	1.20E-06	6.67E-07	3.13E-06	7.11E-10	1.03E-08	1.87E-07	1.87E-07	1.03E-07	4.87E-07	3.86E-10	5.59E-09	8.31E-08	8.31E-08	4.11E-08	2.13E-07
664	257991.7	4084887	4.64E-09	6.71E-08	1.18E-06	1.18E-06	6.61E-07	3.10E-06	7.04E-10	1.02E-08	1.85E-07	1.85E-07	1.02E-07	4.83E-07	3.82E-10	5.53E-09	8.23E-08	8.23E-08	4.07E-08	2.11E-07
665	257967.3	4084888	4.58E-09	6.63E-08	1.17E-06	1.17E-06	6.53E-07	3.06E-06	6.96E-10	1.01E-08	1.83E-07	1.83E-07	1.00E-07	4.77E-07	3.78E-10	5.46E-09	8.13E-08	8.13E-08	4.02E-08	2.09E-07
666	257943	4084889	4.52E-09	6.53E-08	1.15E-06	1.15E-06	6.43E-07	3.02E-06	6.85E-10	9.95E-09	1.80E-07	1.80E-07	9.90E-08	4.70E-07	3.72E-10	5.38E-09	8.01E-08	8.01E-08	3.97E-08	2.06E-07
667	257918.7	4084890	4.44E-09	6.42E-08	1.13E-06	1.13E-06	6.32E-07	2.97E-06	6.74E-10	9.78E-09	1.77E-07	1.77E-07	9.73E-08	4.62E-07	3.66E-10	5.29E-09	7.88E-08	7.88E-08	3.90E-08	2.02E-07
668	257894.3	4084891	4.35E-09	6.29E-08	1.11E-06	1.11E-06	6.19E-07	2.91E-06	6.60E-10	9.58E-09	1.73E-07	1.73E-07	9.53E-08	4.52E-07	3.58E-10	5.18E-09	7.72E-08	7.72E-08	3.82E-08	1.98E-07
669	257870	4084892	4.24E-09	6.14E-08	1.08E-06	1.08E-06	6.04E-07	2.84E-06	6.44E-10	9.35E-09	1.69E-07	1.69E-07	9.30E-08	4.41E-07	3.50E-10	5.06E-09	7.53E-08	7.53E-08	3.73E-08	1.93E-07
670	257845.7	4084893	4.12E-09	5.95E-08	1.05E-06	1.05E-06	5.86E-07	2.75E-06	6.25E-10	9.07E-09	1.64E-07	1.64E-07	9.02E-08	4.28E-07	3.39E-10	4.91E-09	7.30E-08	7.30E-08	3.61E-08	1.87E-07
671	257821.3	4084894	3.97E-09	5.74E-08	1.01E-06	1.01E-06	5.65E-07	2.65E-06	6.02E-10	8.74E-09	1.58E-07	1.58E-07	8.70E-08	4.13E-07	3.27E-10	4.73E-09	7.04E-08	7.04E-08	3.48E-08	1.81E-07
672	257797	4084895	3.79E-09	5.48E-08	9.68E-07	9.68E-07	5.40E-07	2.53E-06	5.75E-10	8.35E-09	1.51E-07	1.51E-07	8.31E-08	3.94E-07	3.12E-10	4.52E-09	6.73E-08	6.73E-08	3.33E-08	1.73E-07
673	257772.7	4084896	3.58E-09	5.18E-08	9.16E-07	9.16E-07	5.10E-07	2.40E-06	5.44E-10	7.90E-09	1.43E-07	1.43E-07	7.86E-08	3.73E-07	2.95E-10	4.27E-09	6.36E-08	6.36E-08	3.15E-08	1.63E-07
674	257748.3	4084897	3.34E-09	4.83E-08	8.54E-07	8.54E-07	4.76E-07	2.24E-06	5.07E-10	7.37E-09	1.33E-07	1.33E-07	7.33E-08	3.48E-07	2.76E-10	3.99E-09	5.93E-08	5.93E-08	2.94E-08	1.52E-07
675	257724	4084898	3.06E-09	4.43E-08	7.82E-07	7.82E-07	4.36E-07	2.05E-06	4.64E-10	6.74E-09	1.22E-07	1.22E-07	6.71E-08	3.18E-07	2.52E-10	3.65E-09	5.43E-08	5.43E-08	2.69E-08	1.39E-07
676	257699.7	4084899	2.73E-09	3.95E-08	6.98E-07	6.98E-07	3.89E-07	1.83E-06	4.15E-10	6.02E-09	1.09E-07	1.09E-07	5.99E-08	2.84E-07	2.25E-10	3.26E-09	4.85E-08	4.85E-08	2.40E-08	1.24E-07
677	257675.3	4084900	2.36E-09	3.41E-08	6.03E-07	6.03E-07	3.36E-07	1.58E-06	3.58E-10	5.20E-09	9.41E-08	9.41E-08	5.17E-08	2.45E-07	1.94E-10	2.81E-09	4.19E-08	4.19E-08	2.07E-08	1.07E-07
678	257651	4084901	1.94E-09	2.81E-08	4.96E-07	4.96E-07	2.77E-07	1.30E-06	2.95E-10	4.28E-09	7.75E-08	7.75E-08	4.26E-08	2.02E-07	1.60E-10	2.32E-09	3.45E-08	3.45E-08	1.71E-08	8.85E-08
679	257626.7	4084902	1.50E-09	2.18E-08	3.84E-07	3.84E-07	2.14E-07	1.01E-06	2.28E-10	3.32E-09	6.00E-08	6.00E-08	3.30E-08	1.57E-07	1.24E-10	1.79E-09	2.67E-08	2.67E-08	1.32E-08	6.85E-08
680	257602.3	4084903	1.10E-09	1.59E-08	2.81E-07	2.81E-07	1.56E-07	7.35E-07	1.67E-10	2.42E-09	4.38E-08	4.38E-08	2.41E-08	1.14E-07	9.06E-11	1.31E-09	1.95E-08	1.95E-08	9.65E-09	5.00E-08
681	257578	4084904	8.00E-10	1.16E-08	2.04E-07	2.04E-07	1.14E-07	5.35E-07	1.21E-10	1.76E-09	3.19E-08	3.19E-08	1.75E-08	8.32E-08	6.59E-11	9.53E-10	1.42E-08	1.42E-08	7.02E-09	3.64E-08
682	257553.7	4084905	6.23E-10	9.01E-09	1.59E-07	1.59E-07	8.87E-08	4.17E-07	9.45E-11	1.37E-09	2.48E-08	2.48E-08	1.37E-08	6.48E-08	5.13E-11	7.43E-10	1.11E-08	1.11E-08	5.47E-09	2.84E-08
683	258373.7	4084854	3.60E-09	5.20E-08	9.19E-07	9.19E-07	5.12E-07	2.41E-06	5.46E-10	7.93E-09	1.43E-07	1.43E-07	7.89E-08	3.74E-07	2.97E-10	4.29E-09	6.38E-08	6.38E-08	3.16E-08	1.64E-07
684	258417.8	4084885	4.07E-09	5.88E-08	1.04E-06	1.04E-06	5.79E-07	2.72E-06	6.17E-10	8.96E-09	1.62E-07	1.62E-07	8.92E-08	4.23E-07	3.35E-10	4.85E-09	7.22E-08	7.22E-08	3.57E-08	1.85E-07
685	258331.3	4084848	3.50E-09	5.07E-08	8.95E-07	8.95E-07	4.99E-07	2.34E-06	5.32E-10	7.72E-09	1.40E-07	1.40E-07	7.68E-08	3.64E-07	2.89E-10	4.18E-09	6.22E-08	6.22E-08	3.08E-08	1.60E-07
686	258306.9	4084849	3.55E-09	5.13E-08	9.06E-07	9.06E-07	5.05E-07	2.37E-06	5.39E-10	7.82E-09	1.42E-07	1.42E-07	7.78E-08	3.69E-07	2.93E-10	4.23E-09	6.30E-08	6.30E-08	3.12E-08	1.62E-07
687	258282.6	4084850	3.58E-09	5.18E-08	9.14E-07	9.14E-07	5.10E-07	2.39E-06	5.43E-10	7.89E-09	1.43E-07	1.43E-07	7.85E-08	3.72E-07	2.95E-10	4.27E-09	6.35E-08	6.35E-08	3.14E-08	1.63E-07
688	258258.3	4084851	3.60E-09	5.21E-08	9.19E-07	9.19E-07	5.13E-07	2.41E-06	5.46E-10	7.93E-09	1.44E-07	1.44E-07	7.89E-08	3.74E-07	2.97E-10	4.29E-09	6.39E-08	6.39E-08	3.16E-08	1.64E-07
689	258233.9	4084852	3.61E-09	5.22E-08	9.22E-07	9.22E-07	5.14E-07	2.42E-06	5.48E-10	7.96E-09	1.44E-07	1.44E-07	7.92E-08	3.76E-07	2.98E-10	4.31E-09	6.41E-08	6.41E-08	3.17E-08	1.64E-07
690	258209.6	4084853	3.62E-09	5.23E-08	9.24E-07	9.24E-07	5.15E-07	2.42E-06	5.49E-10	7.97E-09	1.44E-07	1.44E-07	7.93E-08	3.76E-07	2.98E-10	4.31E-09	6.42E-08	6.42E-08	3.18E-08	1.65E-07
691	258185.3	4084854	3.62E-09	5.23E-08	9.24E-07	9.24E-07	5.15E-07	2.42E-06	5.49E-10	7.97E-09	1.44E-07	1.44E-07	7.93E-08	3.76E-07	2.98E-10	4.31E-09	6.42E-08	6.42E-08	3.18E-08	1.65E-07
692	258160.9	4084855	3.61E-09	5.22E-08	9.23E-07	9.23E-07	5.14E-07	2.42E-06	5.48E-10	7.96E-09	1.44E-07	1.44E-07	7.92E-08	3.76E-07	2.98E-10	4.31E-09	6.41E-08	6.41E-08	3.17E-08	1.65E-07
693	258136.6	4084856	3.60E-09	5.21E-08	9.20E-07	9.20E-07	5.13E-07	2.41E-06	5.47E-10	7.93E-09	1.44E-07	1.44E-07	7.90E-08	3.75E-07	2.97E-10	4.29E-09	6.39E-08	6.39E-08	3.16E-08	1.64E-07
694	258112.3	4084857	3.58E-09	5.18E-08	9.16E-07	9.16E-07	5.10E-07	2.40E-06	5.44E-10	7.90E-09	1.43E-07	1.43E-07	7.86E-08	3.73E-07	2.95E-10	4.27E-09	6.36E-08	6.36E-08	3.15E-08	1.63E-07
695	258088	4084858	3.56E-09	5.15E-08	9.10E-07	9.10E-07	5.07E-07	2.38E-06	5.41E-10	7.85E-09	1.42E-07	1.42E-07	7.81E-08	3.71E-07	2.94E-10	4.25E-09	6.32E-08	6.32E-08	3.13E-08	1.62E-07
696	258063.6	4084859	3.54E-09	5.11E-08	9.03E-07	9.03E-07	5.04E-07	2.36E-06	5.37E-10	7.79E-09	1.41E-07	1.41E-07	7.75E-08	3.68E-07	2.91E-10	4.22E-09	6.27E-08	6.27E-08	3.11E-08	1.61E-07
697	258039.3	4084860	3.50E-09	5.07E-08	8.95E-07	8.95E-07	4.99E-07	2.34E-06	5.32E-10	7.72E-09	1.40E-07	1.40E-07	7.68E-08	3.64E-07	2.89E-10	4.18E-09	6.21E-08	6.21E-08	3.08E-08	1.60E-07
698	258015	4084861	3.46E-09	5.01E-08	8.84E-07	8.84E-07	4.93E-07	2.31E-06	5.25E-10	7.63E-09	1.38E-07	1.38E-07	7.59E-08	3.60E-07	2.85E-10	4.13E-09	6.14E-08	6.14E-08	3.04E-08	1.58E-07
699	257990.6	4084862	3.41E-09	4.94E-08	8.72E-07	8.72E-07	4.86E-07	2.28E-06	5.18E-10	7.52E-09	1.36E-07	1.36E-07	7.48E-08	3.55E-07	2.81E-10	4.07E-09	6.06E-08	6.06E-08	3.00E-08	1.55E-07
700	257966.3	4084863	3.36E-09	4.85E-08	8.57E-07	8.57E-07	4.78E-07	2.24E-06	5.09E-10	7.40E-09	1.34E-07	1.34E-07	7.36E-08	3.49E-07	2.77E-10	4.00E-09	5.96E-08	5.96E-08	2.95E-08	1.53E-07
701	257942	4084864	3.29E-09	4.76E-08	8.40E-07	8.40E-07	4.68E-07	2.20E-06	4.99E-10	7.25E-09	1.31E-07	1.31E-07	7.21E-08	3.42E-07	2.71E-10	3.92E-09	5.84E-08	5.84E-08	2.89E-08	1.50E-07
702	257917.6	4084865	3.21E-09	4.64E-08	8.20E-07	8.20E-07	4.57E-07	2.15E-06	4.87E-10	7.08E-09	1.28E-07	1.28E-07	7.04E-08	3.34E-07	2.65E-10	3.83E-09	5.70E-08	5.70E-08	2.82E-08	1.46E-07
703	257893.3	4084866	3.12E-09	4.51E-08	7.97E-07	7.97E-07	4.44E-07	2.09E-06	4.74E-10	6.87E-09	1.24E-07	1.24E-07	6.84E-08	3.25E-07	2.57E-10	3.72E-09	5.54E-08	5.54E-08	2.74E-08	1.42E-07
704	257869	4084867	3.01E-09	4.36E-08	7.70E-07	7.70E-07	4.29E-07	2.02E-06	4.57E-10	6.64E-09	1.20E-07	1.20E-07	6.61E-08	3.14E-07	2.48E-10	3.59E-09	5.35E-08	5.35E-08	2.65E-08	1.37E-07

705	257844.6	4084868	2.89E-09	4.18E-08	7.39E-07	7.39E-07	4.12E-07	1.93E-06	4.39E-10	6.37E-09	1.15E-07	1.15E-07	6.34E-08	3.01E-07	2.38E-10	3.45E-09	5.13E-08	5.13E-08	2.54E-08	1.32E-07
706	257820.3	4084869	2.75E-09	3.98E-08	7.03E-07	7.03E-07	3.92E-07	1.84E-06	4.17E-10	6.06E-09	1.10E-07	1.10E-07	6.03E-08	2.86E-07	2.27E-10	3.28E-09	4.88E-08	4.88E-08	2.42E-08	1.25E-07
707	257796	4084870	2.59E-09	3.74E-08	6.61E-07	6.61E-07	3.69E-07	1.73E-06	3.93E-10	5.70E-09	1.03E-07	1.03E-07	5.68E-08	2.69E-07	2.13E-10	3.09E-09	4.59E-08	4.59E-08	2.27E-08	1.18E-07
708	257771.6	4084871	2.40E-09	3.48E-08	6.14E-07	6.14E-07	3.42E-07	1.61E-06	3.65E-10	5.30E-09	9.59E-08	9.59E-08	5.27E-08	2.50E-07	1.98E-10	2.87E-09	4.27E-08	4.27E-08	2.11E-08	1.10E-07
709	257747.3	4084872	2.20E-09	3.18E-08	5.61E-07	5.61E-07	3.13E-07	1.47E-06	3.33E-10	4.84E-09	8.76E-08	8.76E-08	4.82E-08	2.28E-07	1.81E-10	2.62E-09	3.90E-08	3.90E-08	1.93E-08	1.00E-07
710	257723	4084873	1.96E-09	2.84E-08	5.02E-07	5.02E-07	2.80E-07	1.31E-06	2.98E-10	4.33E-09	7.83E-08	7.83E-08	4.31E-08	2.04E-07	1.62E-10	2.34E-09	3.48E-08	3.48E-08	1.72E-08	8.94E-08
711	257698.6	4084874	1.71E-09	2.47E-08	4.37E-07	4.37E-07	2.44E-07	1.14E-06	2.60E-10	3.77E-09	6.82E-08	6.82E-08	3.75E-08	1.78E-07	1.41E-10	2.04E-09	3.03E-08	3.03E-08	1.50E-08	7.79E-08
712	257674.3	4084875	1.44E-09	2.08E-08	3.68E-07	3.68E-07	2.05E-07	9.63E-07	2.19E-10	3.17E-09	5.75E-08	5.75E-08	3.16E-08	1.50E-07	1.19E-10	1.72E-09	2.56E-08	2.56E-08	1.27E-08	6.56E-08
713	257650	4084876	1.17E-09	1.69E-08	2.99E-07	2.99E-07	1.66E-07	7.82E-07	1.77E-10	2.58E-09	4.66E-08	4.66E-08	2.56E-08	1.22E-07	9.64E-11	1.39E-09	2.07E-08	2.07E-08	1.03E-08	5.32E-08
714	257625.6	4084877	9.18E-10	1.33E-08	2.34E-07	2.34E-07	1.31E-07	6.14E-07	1.39E-10	2.02E-09	3.66E-08	3.66E-08	2.01E-08	9.55E-08	7.56E-11	1.09E-09	1.63E-08	1.63E-08	8.06E-09	4.18E-08
715	257601.3	4084878	7.12E-10	1.03E-08	1.82E-07	1.82E-07	1.01E-07	4.76E-07	1.08E-10	1.57E-09	2.84E-08	2.84E-08	1.56E-08	7.41E-08	5.87E-11	8.49E-10	1.26E-08	1.26E-08	6.26E-09	3.24E-08
716	257577	4084879	5.67E-10	8.20E-09	1.45E-07	1.45E-07	8.07E-08	3.79E-07	8.60E-11	1.25E-09	2.26E-08	2.26E-08	1.24E-08	5.90E-08	4.67E-11	6.76E-10	1.01E-08	1.01E-08	4.98E-09	2.58E-08
717	257552.7	4084880	4.71E-10	6.81E-09	1.20E-07	1.20E-07	6.70E-08	3.15E-07	7.14E-11	1.04E-09	1.88E-08	1.88E-08	1.03E-08	4.90E-08	3.88E-11	5.61E-10	8.35E-09	8.35E-09	4.13E-09	2.14E-08
718	258372.7	4084829	2.88E-09	4.17E-08	7.37E-07	7.37E-07	4.11E-07	1.93E-06	4.38E-10	6.36E-09	1.15E-07	1.15E-07	6.32E-08	3.00E-07	2.38E-10	3.44E-09	5.12E-08	5.12E-08	2.53E-08	1.31E-07
719	258408.8	4084842	3.04E-09	4.40E-08	7.77E-07	7.77E-07	4.33E-07	2.04E-06	4.62E-10	6.71E-09	1.21E-07	1.21E-07	6.67E-08	3.17E-07	2.51E-10	3.63E-09	5.40E-08	5.40E-08	2.67E-08	1.39E-07
720	258434.8	4084866	3.29E-09	4.75E-08	8.39E-07	8.39E-07	4.68E-07	2.20E-06	4.99E-10	7.24E-09	1.31E-07	1.31E-07	7.20E-08	3.42E-07	2.71E-10	3.92E-09	5.83E-08	5.83E-08	2.89E-08	1.50E-07
721	258330.2	4084823	2.80E-09	4.05E-08	7.16E-07	7.16E-07	3.99E-07	1.87E-06	4.25E-10	6.17E-09	1.12E-07	1.12E-07	6.14E-08	2.92E-07	2.31E-10	3.34E-09	4.97E-08	4.97E-08	2.46E-08	1.28E-07
722	258305.9	4084824	2.83E-09	4.09E-08	7.23E-07	7.23E-07	4.03E-07	1.89E-06	4.29E-10	6.23E-09	1.13E-07	1.13E-07	6.20E-08	2.94E-07	2.33E-10	3.37E-09	5.02E-08	5.02E-08	2.48E-08	1.29E-07
723	258281.6	4084825	2.85E-09	4.12E-08	7.27E-07	7.27E-07	4.05E-07	1.90E-06	4.32E-10	6.27E-09	1.13E-07	1.13E-07	6.24E-08	2.96E-07	2.35E-10	3.39E-09	5.05E-08	5.05E-08	2.50E-08	1.30E-07
724	258257.3	4084826	2.86E-09	4.13E-08	7.29E-07	7.29E-07	4.07E-07	1.91E-06	4.33E-10	6.29E-09	1.14E-07	1.14E-07	6.26E-08	2.97E-07	2.35E-10	3.40E-09	5.07E-08	5.07E-08	2.51E-08	1.30E-07
725	258232.9	4084827	2.86E-09	4.14E-08	7.30E-07	7.30E-07	4.07E-07	1.91E-06	4.34E-10	6.30E-09	1.14E-07	1.14E-07	6.27E-08	2.98E-07	2.36E-10	3.41E-09	5.07E-08	5.07E-08	2.51E-08	1.30E-07
726	258208.6	4084828	2.86E-09	4.14E-08	7.30E-07	7.30E-07	4.07E-07	1.91E-06	4.34E-10	6.30E-09	1.14E-07	1.14E-07	6.27E-08	2.98E-07	2.36E-10	3.41E-09	5.07E-08	5.07E-08	2.51E-08	1.30E-07
727	258184.3	4084829	2.85E-09	4.13E-08	7.29E-07	7.29E-07	4.06E-07	1.91E-06	4.33E-10	6.29E-09	1.14E-07	1.14E-07	6.26E-08	2.97E-07	2.35E-10	3.40E-09	5.06E-08	5.06E-08	2.51E-08	1.30E-07
728	258159.9	4084830	2.84E-09	4.11E-08	7.27E-07	7.27E-07	4.05E-07	1.90E-06	4.32E-10	6.27E-09	1.13E-07	1.13E-07	6.24E-08	2.96E-07	2.34E-10	3.39E-09	5.05E-08	5.05E-08	2.50E-08	1.30E-07
729	258135.6	4084831	2.83E-09	4.09E-08	7.23E-07	7.23E-07	4.03E-07	1.89E-06	4.30E-10	6.24E-09	1.13E-07	1.13E-07	6.20E-08	2.94E-07	2.33E-10	3.37E-09	5.02E-08	5.02E-08	2.49E-08	1.29E-07
730	258111.3	4084832	2.81E-09	4.06E-08	7.18E-07	7.18E-07	4.00E-07	1.88E-06	4.27E-10	6.19E-09	1.12E-07	1.12E-07	6.16E-08	2.92E-07	2.32E-10	3.35E-09	4.99E-08	4.99E-08	2.47E-08	1.28E-07
731	258086.9	4084833	2.79E-09	4.03E-08	7.11E-07	7.11E-07	3.97E-07	1.86E-06	4.23E-10	6.14E-09	1.11E-07	1.11E-07	6.11E-08	2.90E-07	2.30E-10	3.32E-09	4.94E-08	4.94E-08	2.45E-08	1.27E-07
732	258062.6	4084834	2.76E-09	3.98E-08	7.04E-07	7.04E-07	3.92E-07	1.84E-06	4.18E-10	6.07E-09	1.10E-07	1.10E-07	6.04E-08	2.87E-07	2.27E-10	3.28E-09	4.89E-08	4.89E-08	2.42E-08	1.25E-07
733	258038.3	4084835	2.72E-09	3.93E-08	6.94E-07	6.94E-07	3.87E-07	1.82E-06	4.13E-10	5.99E-09	1.08E-07	1.08E-07	5.96E-08	2.83E-07	2.24E-10	3.24E-09	4.82E-08	4.82E-08	2.39E-08	1.24E-07
734	258013.9	4084836	2.68E-09	3.87E-08	6.83E-07	6.83E-07	3.81E-07	1.79E-06	4.06E-10	5.89E-09	1.07E-07	1.07E-07	5.87E-08	2.78E-07	2.21E-10	3.19E-09	4.75E-08	4.75E-08	2.35E-08	1.22E-07
735	257989.6	4084837	2.62E-09	3.80E-08	6.70E-07	6.70E-07	3.74E-07	1.76E-06	3.98E-10	5.78E-09	1.05E-07	1.05E-07	5.75E-08	2.73E-07	2.16E-10	3.13E-09	4.66E-08	4.66E-08	2.31E-08	1.20E-07
736	257965.3	4084838	2.57E-09	3.71E-08	6.55E-07	6.55E-07	3.65E-07	1.72E-06	3.89E-10	5.65E-09	1.02E-07	1.02E-07	5.63E-08	2.67E-07	2.12E-10	3.06E-09	4.55E-08	4.55E-08	2.25E-08	1.17E-07
737	257940.9	4084839	2.50E-09	3.61E-08	6.38E-07	6.38E-07	3.56E-07	1.67E-06	3.79E-10	5.51E-09	9.96E-08	9.96E-08	5.48E-08	2.60E-07	2.06E-10	2.98E-09	4.43E-08	4.43E-08	2.19E-08	1.14E-07
738	257916.6	4084840	2.42E-09	3.50E-08	6.18E-07	6.18E-07	3.45E-07	1.62E-06	3.67E-10	5.33E-09	9.65E-08	9.65E-08	5.31E-08	2.52E-07	2.00E-10	2.89E-09	4.30E-08	4.30E-08	2.13E-08	1.10E-07
739	257892.3	4084841	2.33E-09	3.37E-08	5.96E-07	5.96E-07	3.32E-07	1.56E-06	3.54E-10	5.14E-09	9.30E-08	9.30E-08	5.11E-08	2.43E-07	1.92E-10	2.78E-09	4.14E-08	4.14E-08	2.05E-08	1.06E-07
740	257867.9	4084842	2.23E-09	3.23E-08	5.70E-07	5.70E-07	3.18E-07	1.49E-06	3.39E-10	4.92E-09	8.90E-08	8.90E-08	4.89E-08	2.32E-07	1.84E-10	2.66E-09	3.96E-08	3.96E-08	1.96E-08	1.02E-07
741	257843.6	4084843	2.12E-09	3.06E-08	5.41E-07	5.41E-07	3.01E-07	1.42E-06	3.21E-10	4.66E-09	8.44E-08	8.44E-08	4.64E-08	2.20E-07	1.74E-10	2.52E-09	3.76E-08	3.76E-08	1.86E-08	9.64E-08
742	257819.3	4084844	1.99E-09	2.87E-08	5.08E-07	5.08E-07	2.83E-07	1.33E-06	3.02E-10	4.38E-09	7.93E-08	7.93E-08	4.36E-08	2.07E-07	1.64E-10	2.37E-09	3.53E-08	3.53E-08	1.75E-08	9.05E-08
743	257794.9	4084845	1.84E-09	2.67E-08	4.71E-07	4.71E-07	2.63E-07	1.23E-06	2.80E-10	4.06E-09	7.35E-08	7.35E-08	4.04E-08	1.92E-07	1.52E-10	2.20E-09	3.27E-08	3.27E-08	1.62E-08	8.40E-08
744	257770.6	4084846	1.69E-09	2.44E-08	4.31E-07	4.31E-07	2.40E-07	1.13E-06	2.56E-10	3.71E-09	6.72E-08	6.72E-08	3.70E-08	1.75E-07	1.39E-10	2.01E-09	2.99E-08	2.99E-08	1.48E-08	7.68E-08
745	257746.3	4084847	1.51E-09	2.19E-08	3.87E-07	3.87E-07	2.16E-07	1.01E-06	2.30E-10	3.34E-09	6.04E-08	6.04E-08	3.32E-08	1.58E-07	1.25E-10	1.81E-09	2.69E-08	2.69E-08	1.33E-08	6.90E-08
746	257722	4084848	1.33E-09	1.93E-08	3.40E-07	3.40E-07	1.90E-07	8.90E-07	2.02E-10	2.93E-09	5.31E-08	5.31E-08	2.92E-08	1.39E-07	1.10E-10	1.59E-09	2.36E-08	2.36E-08	1.17E-08	6.06E-08
747	257697.6	4084849	1.14E-09	1.65E-08	2.92E-07	2.92E-07	1.63E-07	7.64E-07	1.73E-10	2.52E-09	4.56E-08	4.56E-08	2.51E-08	1.19E-07	9.42E-11	1.36E-09	2.03E-08	2.03E-08	1.00E-08	5.21E-08
748	257673.3	4084850	9.57E-10	1.38E-08	2.44E-07	2.44E-07	1.36E-07	6.40E-07	1.45E-10	2.11E-09	3.81E-08	3.81E-08	2.10E-08	9.95E-08	7.88E-11	1.14E-09	1.70E-08	1.70E-08	8.40E-09	4.36E-08
749	257649	4084851	7.83E-10	1.13E-08	2.00E-07	2.00E-07	1.12E-07	5.24E-07	1.19E-10	1.73E-09	3.12E-08	3.12E-08	1.72E-08	8.15E-08	6.46E-11	9.34E-10	1.39E-08	1.39E-08	6.88E-09	3.57E-08
750	257624.6	4084852	6.35E-10	9.18E-09	1.62E-07	1.62E-07	9.04E-08	4.25E-07	9.64E-11	1.40E-09	2.53E-08	2.53E-08	1.39E-08	6.61E-08	5.23E-11	7.57E-10	1.13E-08	1.13E-08	5.58E-09	2.89E-08
751	257600.3	4084853	5.19E-10	7.51E-09	1.33E-07	1.33E-07	7.39E-08	3.47E-07	7.88E-11	1.14E-09	2.07E-08	2.07E-08	1.14E-08	5.40E-08	4.28E-11	6.19E-10	9.21E-09	9.21E-09	4.56E-09	2.36E-08
752	257576	4084854	4.35E-10	6.29E-09	1.11E-07	1.11E-07	6.19E-08	2.91E-07	6.60E-11	9.58E-10	1.73E-08	1.73E-08	9.53E-09	4.52E-08	3.58E-11	5.18E-10	7.71E-09	7.71E-09	3.82E-09	1.98E-08
753	257551.6	4084855	3.74E-10	5.41E-09	9.56E-08	9.56E-08	5.33E-08	2.50E-07	5.68E-11	8.24E-10	1.49E-08	1.49E-08	8.20E-09	3.89E-08	3.08E-11	4.46E-10	6.64E-09	6.64E-09	3.29E-09	1.70E-08
754	258374.2	4084780	2.02E-09	2.93E-08	5.17E-07	5.17E-07	2.88E-07	1.35E-06	3.07E-10	4.46E-09	8.07E-08	8.07E-08	4.44E-08	2.10E-07	1.67E-10	2.41E-09	3.59E-08	3.59E-08	1.78E-08	9.21E-08
755	258395.9	4084788	2.11E-09	3.05E-08	5.38E-07	5.38E-07	3.00E-07	1.41E-06	3.20E-10	4.64E-09	8.41E-08	8.41E-08	4.62E-08	2.19E-07	1.74E-10	2.51E-09	3.74E-08	3.74E-08	1.85E-08	9.60E-08
756	258417.6	4084796	2.17E-09	3.14E-08	5.55E-07	5.55E-07	3.10E-07	1.45E-06	3.30E-10	4.79E-09	8.67E-08	8.67E-08	4.77E-08	2.26E-07	1.79E-10	2.59E-09	3.86E-08	3.86E-08	1.91E-08	9.90E-08
757	258439.3	4084804	2.21E-09	3.19E-08	5.64E-07	5.64E-07	3.14E-07	1.48E-06	3.35E-10	4.86E-09	8.80E-08	8.80E-08	4.84E-08	2.30E-07	1.82E-10	2.63E-09	3.92E-08	3.92E-08	1.94E-08	1.01E-07
758	258470.5	4084833	2.36E-09	3.42E-08	6.03E-07	6.03E-07	3.36E-07	1.58E-06	3.58E-10	5.20E-09	9.42E-08	9.42E-08	5.18E-08	2.46E-07	1.95E-10	2.82E-09	4.19E-08	4.19E-08	2.07E-08	1.08E-07
759	258480	4084854	2.47E-09	3.57E-08	6.31E-07	6.31E-07	3.52E-07	1.65E-06	3.75E-10	5.44E-09	9.85E-08	9.85E-08	5.41E-08	2.57E-07	2.04E-10	2.94E-09	4.38E-08	4.38E-08	2.17E-08	1.12E-07
760	258489.6	4084876	2.49E-09	3.60E-08	6.36E-07	6.36E-07	3.55E-07	1.67E-06	3.78E-10	5.49E-09	9.93E-08	9.93E-08	5.46E-08	2.59E-07	2.05E-10	2.97E-09	4.42E-08	4.42E-08	2.19E-08	1.13E-07
761	258499.1	4084897	2.43E-09	3.51E-08	6.20E-07	6.20E-07	3.46E-07	1.62E-06	3.68E-10	5.35E-09	9.68E-08	9.68E-08	5.32E-08	2.53E-07	2.00E-10	2.89E-09	4.31E-08	4.31E-08	2.13E-08	1.11E-07
762	258352.5	4084772	1.93E-09	2.79E-08	4.93E-07	4.93E-07	2.75E-07	1.29E-06	2.93E-10	4.25E-09	7.70E-08	7.70E-08	4.23E-08	2.01E-07	1.59E-10	2.30E-09	3.42E-08	3.42E-08	1.69E-08	8.79E-08
763	258328.2	4084773	1.94E-09	2.81E-08	4.97E-07	4.97E-07	2.77E-07	1.30E-06	2.95E-10	4.28E-09	7.75E-08	7.75E-08	4.26E-08	2.02E-07	1.60E-10	2.32E-09	3.45E-08	3.45E-08	1.71E-08	8.85E-08
764	258303.9	4084774	1.95E-09	2.82E-08	4.99E-07	4.99E-07	2.78E-07	1.31E-06	2.96E-10	4.30E-09	7.78E-08	7.78E-08	4.28E-08	2.03E-07	1.61E-10	2.33E-09	3.46E-08	3.46E-08	1.71E-08	8.89E-08
765	258279.5	4084775	1.95E-09	2.83E-08	4.99E-07	4.99E-07	2.78E-07	1.31E-06	2.97E-10	4.31E-09	7.79E-08	7.79E-08	4.28E-08	2.03E-07	1.61E-10	2.33E-09	3.47E-08	3.47E-08	1.72E-08	8.90E-08
766	258255.2	4084776	1.95E-09	2.82E-08	4.98E-07	4.98E-07	2.78E-07	1.30E-06	2.96E-10	4.30E-09	7.78E-08	7.78E-08	4.28E-08	2.03E-07	1.61E-10	2.33E-09	3.46E-08	3.46E-08	1.71E-08	8.89E-08
767	258230.9	4084777	1.94E-09	2.81E-08	4.97E-07	4.97E-07	2.77E-07	1.30E-06	2.95E-10	4.29E-09	7.76E-08	7.76E-08	4.26E-08	2.02E-07	1.60E-10	2.32E-09	3.45E-08	3.45E-08	1.71E-08	8.86E-08
768	258206.5	4084778	1.93E-09	2.80E-08	4.94E-07	4.94E-07	2.76E-07	1.29E-06	2.94E-10	4.26E-09	7.72E-08	7.72E-08	4.24E-08	2.01E-07	1.59E-10	2.31E-09	3.43E-08	3.43E-08	1.70E-08	8.81E-08
769	258182.2	4084779	1.92E-09	2.78E-08	4.91E-07	4.91E-07	2.74E-07	1.28E-06	2.92E-10	4.23E-09	7.66E-08	7.66E-08	4.21E-08	2.00E-07	1.58E-10	2.29E-09	3.41E-08	3.41E-08	1.69E-08	8.75E-08
770	258157.9	4084780	1.90E-09	2.75E-08	4.86E-07	4.86E-07	2.71E-07	1.27E-06	2.89E-10	4.20E-09	7.59E-08	7.59E-08	4.17E-08	1.98E-07	1.57E-10	2.27E-09	3.38E-08	3.38E-08	1.67E-08	8.67E-08
771	258133.5	4084781	1.88E-09	2.72E-08	4.81E-07	4.81E-07	2.68E-07	1.26E-06	2.86E-10	4.15E-09	7.51E-08	7.51E-08	4.13E-08	1.96E-07	1.55E-10	2.25E-09	3.34E-08	3.34E-08	1.65E-08	8.58E-08
772	258109.2	4084782	1.86E-09	2.69E-08	4.75E-07	4.75E-07	2.65E-07	1.24E-06	2.82E-10	4.09E-09	7.41E-08	7.41E-08	4.07E-08	1.93E-07	1.53E-10	2.22E-09	3.30E-08	3.30E-08	1.63E-08	8.46E-08
773	258084.9	4084783	1.83E-09	2.65E-08	4.67E-07	4.67E-07	2.60E-07	1.22E-06	2.78E-10	4.03E-09	7.29E-08	7.29E-08	4.01E-08	1.90E-07	1.51E-10	2.18E-09	3.24E-08	3.24E-08	1.61E-08	8.33E-08
774	258060.5	4084784	1.79E-09	2.60E-08	4.58E-07	4.58E-07	2.56E-07	1.20E-06	2.72E-10	3.95E-09	7.16E-08	7.16E-08	3.93E-08	1.87E-07	1.48E-10	2.14E-09	3.18E-08	3.18E-08	1.58E-08	8.17E-08
775	258036.2	4084785	1.76E-09	2.54E-08	4.48E-07	4.48E-07	2.50E-07	1.17E-06	2.66E-10	3.87E-09	7.00E-08	7.00E-08	3.85E-08	1.83E-07	1.45E-10	2.09E-09	3.11E-08	3.11E-08	1.54E-08	7.99E-08
776	258011.9	4084786	1.71E-09	2.47E-08	4.37E-07	4.37E-07	2.44E-07	1.14E-06	2.60E-10	3.77E-09	6.82E-08	6.82E-08	3.75E-08	1.78E-07	1.41E-10	2.04E-09	3.04E-08	3.04E-08	1.50E-08	7.79E-08
777	257987.5	4084787	1.66E-09	2.40E-08	4.24E-07	4.24E-07	2.36E-07	1.11E-06	2.52E-10	3.66E-09	6.62E-08	6.62E-08	3.64E-08	1.73E-07	1.37E-10	1.98E-09	2.95E-08	2.95E-08	1.46E-08	7.56E-08
778	257963.2	4084788	1.60E-09	2.32E-08	4.09E-07	4.09E-07	2.28E-07	1.07E-06	2.43E-10	3.53E-09	6.39E-08	6.39E-08	3.52E-08	1.67E-07	1.32E-10	1.91E-09	2.84E-08	2.84E-08	1.41E-08	7.30E-08
779	257938.9	4084789	1.54E-09	2.23E-08	3.93E-07	3.93E-07	2.19E-07	1.03E-06	2.34E-10	3.39E-09	6.14E-08	6.14E-08	3.38E-08	1.60E-07	1.27E-10	1.84E-09	2.73E-08	2.73E-08	1.35E-08	7.01E-08
780	257914.6	4084790	1.47E-09	2.12E-08	3.75E-07	3.75E-07	2.09E-07	9.82E-07	2.23E-10	3.24E-09	5.86E-08	5.86E-08	3.22E-08	1.53E-07	1.21E-10	1.75E-09	2.61E-08	2.61E-08	1.29E-08	6.69E-08
781	257890.2	4084791	1.39E-09	2.01E-08	3.55E-07	3.55E-07	1.98E-07	9.30E-07	2.11E-10	3.07E-09	5.55E-08	5.55E-08	3.05E-08	1.45E-07	1.15E-10	1.66E-09	2.47E-08	2.47E-08	1.22E-08	6.34E-08
782	257865.9	4084792	1.31E-09	1.89E-08	3.34E-07	3.34E-07	1.86E-07	8.73E-07	1.98E-10	2.88E-09	5.21E-08	5.21E-08	2.86E-08	1.36E-07	1.08E-10	1.56E-09	2.32E-08	2.32E-08	1.15E-08	5.95E-08
783	257841.6	4084793	1.21E-09	1.76E-08	3.10E-07	3.10E-07	1.73E-07	8.12E-07	1.84E-10	2.68E-09	4.84E-08	4.84E-08	2.66E-08	1.26E-07	1.00E-10	1.45E-09	2.15E-08	2.15E-08	1.07E-08	5.53E-08
784	257817.2	4084794	1.12E-09	1.61E-08	2.85E-07	2.85E-07	1.59E-07	7.46E-07	1.69E-10	2.46E-09	4.45E-08	4.45E-08	2.45E-08	1.16E-07	9.20E-11	1.33E-09	1.98E-08	1.98E-08	9.80E-09	5.08E-08
785	257792.9	4084795	1.01E-09	1.47E-08	2.59E-07	2.59E-07	1.44E-07	6.78E-07	1.54E-10	2.23E-09	4.04E-08	4.04E-08	2.22E-08	1.05E-07	8.35E-11	1.21E-09	1.80E-08	1.80E-08	8.90E-09	4.61E-08
786	257768.6	4084796	9.07E-10	1.31E-08	2.32E-07	2.32E-07	1.29E-07	6.06E-07	1.38E-10	2.00E-09	3.62E-08	3.62E-08	1.99E-08	9.43E-08	7.48E-11	1.08E-09	1.61E-08	1.61E-08	7.96E-09	4.13E-08
787	257744.2	4084797	8.00E-10	1.16E-08	2.04E-07	2.04E-07	1.14E-07	5.35E-07	1.21E-10	1.76E-09	3.19E-08	3.19E-08	1.75E-08	8.32E-08	6.59E-11	9.54E-10	1.42E-08	1.42E-08	7.03E-09	3.64E-08
788	257719.9	4084798	6.96E-10	1.01E-08	1.78E-07	1.78E-07	9.91E-08	4.65E-07	1.06E-10	1.53E-09	2.78E-08	2.78E-08	1.53E-08	7.24E-08	5.74E-11	8.30E-10	1.23E-08	1.23E-08	6.11E-09	3.17E-08
789	257695.6	4084799	5.98E-10	8.65E-09	1.53E-07	1.53E-07	8.52E-08	4.00E-07	9.08E-11	1.32E-09	2.39E-08	2.39E-08	1.31E-08	6.22E-08	4.93E-11	7.13E-10	1.06E-08	1.06E-08	5.25E-09	2.72E-08
790	257671.2	4084800	5.11E-10	7.39E-09	1.30E-07	1.30E-07	7.27E-08	3.42E-07	7.75E-11	1.13E-09	2.04E-08	2.04E-08	1.12E-08	5.31E-08	4.21E-11	6.09E-10	9.06E-09	9.06E-09	4.49E-09	2.33E-08
791	257646.9	4084801	4.36E-10	6.31E-09	1.11E-07	1.11E-07	6.21E-08	2.92E-07	6.62E-11	9.61E-10	1.74E-08	1.74E-08	9.56E-09	4.54E-08	3.59E-11	5.20E-10	7.74E-09	7.74E-09	3.83E-09	1.99E-08
792	257622.6	4084802	3.75E-10	5.42E-09	9.58E-08	9.58E-08	5.34E-08	2.51E-07	5.69E-11	8.26E-10	1.50E-08	1.50E-08	8.22E-09	3.90E-08	3.09E-11	4.47E-10	6.65E-09	6.65E-09	3.29E-09	1.71E-08
793	257598.2	4084803	3.27E-10	4.72E-09	8.34E-08	8.34E-08	4.65E-08	2.18E-07	4.96E-11	7.20E-10	1.30E-08	1.30E-08	7.16E-09	3.40E-08	2.69E-11	3.89E-10	5.79E-09	5.79E-09	2.87E-09	1.49E-08
794	257573.9	4084804	2.89E-10	4.17E-09	7.37E-08	7.37E-08	4.11E-08	1.93E-07	4.38E-11	6.36E-10	1.15E-08	1.15E-08	6.33E-09	3.00E-08	2.38E-11	3.44E-10	5.12E-09	5.12E-09	2.53E-09	1.31E-08
795	257549.6	4084805	2.59E-10	3.74E-09	6.60E-08	6.60E-08	3.68E-08	1.73E-07	3.92E-11	5.70E-10	1.03E-08	1.03E-08	5.67E-09	2.69E-08	2.13E-11	3.08E-10	4.59E-09	4.59E-09	2.27E-09	1.18E-08
796	258371.1	4084730	1.49E-09	2.16E-08	3.81E-07	3.81E-07	2.12E-07	9.98E-07	2.26E-10	3.29E-09	5.95E-08	5.95E-08	3.27E-08	1.55E-07	1.23E-10	1.78E-09	2.65E-08	2.65E-08	1.31E-08	6.80E-08
797	258412.4	4084745	1.61E-09	2.33E-08	4.11E-07	4.11E-07	2.29E-07	1.08E-06	2.44E-10	3.55E-09	6.42E-08	6.42E-08	3.53E-08	1.67E-07	1.33E-10	1.92E-09	2.86E-08	2.86E-08	1.41E-08	7.33E-08
798	258453.7	4084760	1.69E-09	2.44E-08	4.31E-07	4.31E-07	2.40E-07	1.13E-06	2.56E-10	3.72E-09	6.73E-08	6.73E-08	3.70E-08	1.76E-07	1.39E-10	2.01E-09	3.00E-08	3.00E-08	1.48E-08	7.69E-08
799	258504.1	4084796	1.79E-09	2.59E-08	4.57E-07	4.57E-07	2.55E-07	1.20E-06	2.72E-10	3.95E-09	7.14E-08	7.14E-08	3.93E-08	1.86E-07	1.48E-10	2.13E-09	3.18E-08	3.18E-08	1.57E-08	8.16E-08
800	258522.3	4084836	1.90E-09	2.74E-08	4.84E-07	4.84E-07	2.70E-07	1.27E-06	2.88E-10	4.18E-09	7.56E-08	7.56E-08	4.16E-08	1.97E-07	1.56E-10	2.26E-09	3.37E-08	3.37E-08	1.67E-08	8.64E-08
801	258540.4	4084876	1.83E-09	2.65E-08	4.68E-07	4.68E-07	2.61E-07	1.22E-06	2.78E-10	4.04E-09	7.30E-08	7.30E-08	4.02E-08	1.91E-07	1.51E-10	2.18E-09	3.25E-08	3.25E-08	1.61E-08	8.34E-08
802	258326.1	4084723	1.43E-09	2.07E-08	3.65E-07	3.65E-07	2.04E-07	9.56E-07	2.17E-10	3.15E-09	5.70E-08	5.70E-08	3.13E-08	1.49E-07	1.18E-10	1.70E-09	2.54E-08	2.54E-08	1.26E-08	6.51E-08
803	258301.8	4084724	1.43E-09	2.07E-08	3.65E-07	3.65E-07	2.03E-07	9.55E-07	2.17E-10	3.15E-09	5.69E-08	5.69E-08	3.13E-08	1.49E-07	1.18E-10	1.70E-09	2.53E-08	2.53E-08	1.25E-08	6.50E-08
804	258277.5	4084725	1.42E-09	2.06E-08	3.63E-07	3.63E-07	2.02E-07	9.51E-07	2.16E-10	3.13E-09	5.67E-08	5.67E-08	3.12E-08	1.48E-07	1.17E-10	1.70E-09	2.52E-08	2.52E-08	1.25E-08	6.48E-08
805	258253.1	4084726	1.41E-09	2.04E-08	3.61E-07	3.61E-07	2.01E-07	9.45E-07	2.14E-10	3.11E-09	5.63E-08	5.63E-08	3.10E-08	1.47E-07	1.16E-10	1.68E-09	2.51E-08	2.51E-08	1.24E-08	6.43E-08
806	258228.8	4084727	1.40E-09	2.03E-08	3.58E-07	3.58E-07	1.99E-07	9.36E-07	2.13E-10	3.09E-09	5.58E-08	5.58E-08	3.07E-08	1.46E-07	1.15E-10	1.67E-09	2.48E-08	2.48E-08	1.23E-08	6.38E-08
807	258204.5	4084728	1.39E-09	2.00E-08	3.54E-07	3.54E-07	1.97E-07	9.26E-07	2.10E-10	3.05E-09	5.52E-08	5.52E-08	3.04E-08	1.44E-07	1.14E-10	1.65E-09	2.46E-08	2.46E-08	1.22E-08	6.31E-08
808	258180.1	4084729	1.37E-09	1.98E-08	3.49E-07	3.49E-07	1.95E-07	9.14E-07	2.08E-10	3.01E-09	5.45E-08	5.45E-08	3.00E-08	1.42E-07	1.13E-10	1.63E-09	2.43E-08	2.43E-08	1.20E-08	6.23E-08
809	258155.8	4084730	1.35E-09	1.95E-08	3.44E-07	3.44E-07	1.92E-07	9.00E-07	2.04E-10	2.97E-09	5.37E-08	5.37E-08	2.95E-08	1.40E-07	1.11E-10	1.61E-09	2.39E-08	2.39E-08	1.18E-08	6.13E-08
810	258131.5	4084731	1.32E-09	1.91E-08	3.38E-07	3.38E-07	1.88E-07	8.84E-07	2.01E-10	2.91E-09	5.27E-08	5.27E-08	2.90E-08	1.38E-07	1.09E-10	1.58E-09	2.35E-08	2.35E-08	1.16E-08	6.02E-08
811	258107.2	4084732	1.29E-09	1.87E-08	3.31E-07	3.31E-07	1.84E-07	8.66E-07	1.97E-10	2.85E-09	5.16E-08	5.16E-08	2.84E-08	1.35E-07	1.07E-10	1.54E-09	2.30E-08	2.30E-08	1.14E-08	5.90E-08
812	258082.8	4084733	1.26E-09	1.83E-08	3.23E-07	3.23E-07	1.80E-07	8.45E-07	1.92E-10	2.79E-09	5.04E-08	5.04E-08	2.77E-08	1.31E-07	1.04E-10	1.51E-09	2.24E-08	2.24E-08	1.11E-08	5.76E-08
813	258058.5	4084734	1.23E-09	1.78E-08	3.14E-07	3.14E-07	1.75E-07	8.22E-07	1.87E-10	2.71E-09	4.90E-08	4.90E-08	2.70E-08	1.28E-07	1.01E-10	1.47E-09	2.18E-08	2.18E-08	1.08E-08	5.60E-08
814	258034.2	4084735	1.19E-09	1.72E-08	3.04E-07	3.04E-07	1.70E-07	7.96E-07	1.81E-10	2.62E-09	4.75E-08	4.75E-08	2.61E-08	1.24E-07	9.82E-11	1.42E-09	2.11E-08	2.11E-08	1.05E-08	5.42E-08
815	258009.8	4084736	1.15E-09	1.66E-08	2.93E-07	2.93E-07	1.64E-07	7.68E-07	1.74E-10	2.53E-09	4.58E-08	4.58E-08	2.52E-08	1.20E-07	9.47E-11	1.37E-09	2.04E-08	2.04E-08	1.01E-08	5.23E-08
816	257985.5	4084737	1.10E-09	1.59E-08	2.82E-07	2.82E-07	1.57E-07	7.37E-07	1.67E-10	2.43E-09	4.40E-08	4.40E-08	2.42E-08	1.15E-07	9.09E-11	1.31E-09	1.96E-08	1.96E-08	9.68E-09	5.02E-08
817	257961.2	4084738	1.05E-09	1.52E-08	2.69E-07	2.69E-07	1.50E-07	7.03E-07	1.60E-10	2.32E-09	4.19E-08	4.19E-08	2.31E-08	1.09E-07	8.67E-11	1.25E-09	1.87E-08	1.87E-08	9.24E-09	4.79E-08
818	257936.8	4084739	9.97E-10	1.44E-08	2.55E-07	2.55E-07	1.42E-07	6.66E-07	1.51E-10	2.20E-09	3.97E-08	3.97E-08	2.19E-08	1.04E-07	8.22E-11	1.19E-09	1.77E-08	1.77E-08	8.75E-09	4.54E-08
819	257912.5	4084740	9.38E-10	1.36E-08	2.40E-07	2.40E-07	1.34E-07	6.27E-07	1.42E-10	2.07E-09	3.74E-08	3.74E-08	2.06E-08	9.76E-08	7.73E-11	1.12E-09	1.66E-08	1.66E-08	8.24E-09	4.27E-08
820	257888.2	4084741	8.76E-10	1.27E-08	2.24E-07	2.24E-07	1.25E-07	5.86E-07	1.33E-10	1.93E-09	3.49E-08	3.49E-08	1.92E-08	9.11E-08	7.22E-11	1.04E-09	1.55E-08	1.55E-08	7.69E-09	3.99E-08
821	257863.8	4084742	8.10E-10	1.17E-08	2.07E-07	2.07E-07	1.15E-07	5.42E-07	1.23E-10	1.79E-09	3.23E-08	3.23E-08	1.78E-08	8.43E-08	6.68E-11	9.66E-10	1.44E-08	1.44E-08	7.12E-09	3.69E-08
822	257839.5	4084743	7.43E-10	1.07E-08	1.90E-07	1.90E-07	1.06E-07	4.97E-07	1.13E-10	1.64E-09	2.96E-08	2.96E-08	1.63E-08	7.73E-08	6.12E-11	8.86E-10	1.32E-08	1.32E-08	6.52E-09	3.38E-08

823	257815.2	4084744	6.74E-10	9.75E-09	1.72E-07	1.72E-07	9.60E-08	4.51E-07	1.02E-10	1.49E-09	2.69E-08	2.69E-08	1.48E-08	7.02E-08	5.56E-11	8.04E-10	1.20E-08	1.20E-08	5.92E-09	3.07E-08
824	257790.8	4084745	6.06E-10	8.77E-09	1.55E-07	1.55E-07	8.63E-08	4.05E-07	9.20E-11	1.34E-09	2.42E-08	2.42E-08	1.33E-08	6.31E-08	5.00E-11	7.23E-10	1.08E-08	1.08E-08	5.32E-09	2.76E-08
825	257766.5	4084746	5.40E-10	7.81E-09	1.38E-07	1.38E-07	7.69E-08	3.61E-07	8.20E-11	1.19E-09	2.15E-08	2.15E-08	1.18E-08	5.62E-08	4.45E-11	6.44E-10	9.58E-09	9.58E-09	4.74E-09	2.46E-08
826	257742.2	4084747	4.77E-10	6.90E-09	1.22E-07	1.22E-07	6.80E-08	3.19E-07	7.24E-11	1.05E-09	1.90E-08	1.90E-08	1.05E-08	4.97E-08	3.93E-11	5.69E-10	8.47E-09	8.47E-09	4.19E-09	2.17E-08
827	257717.8	4084748	4.20E-10	6.07E-09	1.07E-07	1.07E-07	5.98E-08	2.81E-07	6.37E-11	9.25E-10	1.67E-08	1.67E-08	9.20E-09	4.37E-08	3.46E-11	5.01E-10	7.45E-09	7.45E-09	3.69E-09	1.91E-08
828	257693.5	4084749	3.69E-10	5.33E-09	9.42E-08	9.42E-08	5.25E-08	2.46E-07	5.59E-11	8.12E-10	1.47E-08	1.47E-08	8.08E-09	3.84E-08	3.04E-11	4.39E-10	6.54E-09	6.54E-09	3.24E-09	1.68E-08
829	257669.2	4084750	3.24E-10	4.69E-09	8.29E-08	8.29E-08	4.62E-08	2.17E-07	4.92E-11	7.15E-10	1.29E-08	1.29E-08	7.11E-09	3.37E-08	2.67E-11	3.87E-10	5.76E-09	5.76E-09	2.85E-09	1.48E-08
830	257644.8	4084751	2.87E-10	4.15E-09	7.33E-08	7.33E-08	4.09E-08	1.92E-07	4.36E-11	6.33E-10	1.14E-08	1.14E-08	6.29E-09	2.99E-08	2.37E-11	3.42E-10	5.09E-09	5.09E-09	2.52E-09	1.31E-08
831	257620.5	4084752	2.56E-10	3.71E-09	6.54E-08	6.54E-08	3.65E-08	1.71E-07	3.89E-11	5.64E-10	1.02E-08	1.02E-08	5.62E-09	2.67E-08	2.11E-11	3.05E-10	4.55E-09	4.55E-09	2.25E-09	1.17E-08
832	257596.2	4084753	2.31E-10	3.34E-09	5.89E-08	5.89E-08	3.29E-08	1.54E-07	3.50E-11	5.08E-10	9.20E-09	9.20E-09	5.06E-09	2.40E-08	1.90E-11	2.75E-10	4.09E-09	4.09E-09	2.03E-09	1.05E-08
833	257571.9	4084754	2.10E-10	3.03E-09	5.35E-08	5.35E-08	2.99E-08	1.40E-07	3.18E-11	4.62E-10	8.36E-09	8.36E-09	4.60E-09	2.18E-08	1.73E-11	2.50E-10	3.72E-09	3.72E-09	1.84E-09	9.55E-09
834	257547.5	4084755	1.92E-10	2.78E-09	4.91E-08	4.91E-08	2.73E-08	1.28E-07	2.91E-11	4.23E-10	7.66E-09	7.66E-09	4.21E-09	2.00E-08	1.58E-11	2.29E-10	3.41E-09	3.41E-09	1.69E-09	8.75E-09
835	258371	4084681	1.15E-09	1.66E-08	2.93E-07	2.93E-07	1.63E-07	7.66E-07	1.74E-10	2.52E-09	4.57E-08	4.57E-08	2.51E-08	1.19E-07	9.44E-11	1.37E-09	2.03E-08	2.03E-08	1.01E-08	5.22E-08
836	258393.6	4084689	1.20E-09	1.73E-08	3.06E-07	3.06E-07	1.71E-07	8.01E-07	1.82E-10	2.64E-09	4.78E-08	4.78E-08	2.63E-08	1.25E-07	9.88E-11	1.43E-09	2.13E-08	2.13E-08	1.05E-08	5.46E-08
837	258416.2	4084697	1.25E-09	1.80E-08	3.19E-07	3.19E-07	1.78E-07	8.34E-07	1.89E-10	2.75E-09	4.98E-08	4.98E-08	2.74E-08	1.30E-07	1.03E-10	1.49E-09	2.21E-08	2.21E-08	1.10E-08	5.68E-08
838	258438.8	4084706	1.29E-09	1.87E-08	3.30E-07	3.30E-07	1.84E-07	8.64E-07	1.96E-10	2.85E-09	5.15E-08	5.15E-08	2.83E-08	1.34E-07	1.06E-10	1.54E-09	2.29E-08	2.29E-08	1.13E-08	5.88E-08
839	258461.4	4084714	1.33E-09	1.92E-08	3.39E-07	3.39E-07	1.89E-07	8.88E-07	2.02E-10	2.93E-09	5.29E-08	5.29E-08	2.91E-08	1.38E-07	1.09E-10	1.58E-09	2.36E-08	2.36E-08	1.17E-08	6.05E-08
840	258484	4084722	1.35E-09	1.96E-08	3.45E-07	3.45E-07	1.92E-07	9.04E-07	2.05E-10	2.98E-09	5.39E-08	5.39E-08	2.96E-08	1.41E-07	1.11E-10	1.61E-09	2.40E-08	2.40E-08	1.19E-08	6.16E-08
841	258506.6	4084731	1.36E-09	1.97E-08	3.47E-07	3.47E-07	1.94E-07	9.09E-07	2.06E-10	3.00E-09	5.42E-08	5.42E-08	2.98E-08	1.42E-07	1.12E-10	1.62E-09	2.41E-08	2.41E-08	1.19E-08	6.19E-08
842	258539.1	4084761	1.43E-09	2.06E-08	3.65E-07	3.65E-07	2.03E-07	9.54E-07	2.17E-10	3.14E-09	5.69E-08	5.69E-08	3.13E-08	1.48E-07	1.18E-10	1.70E-09	2.53E-08	2.53E-08	1.25E-08	6.50E-08
843	258549	4084783	1.48E-09	2.14E-08	3.78E-07	3.78E-07	2.11E-07	9.90E-07	2.25E-10	3.26E-09	5.91E-08	5.91E-08	3.25E-08	1.54E-07	1.22E-10	1.77E-09	2.63E-08	2.63E-08	1.30E-08	6.75E-08
844	258558.9	4084805	1.51E-09	2.18E-08	3.85E-07	3.85E-07	2.15E-07	1.01E-06	2.29E-10	3.32E-09	6.01E-08	6.01E-08	3.30E-08	1.57E-07	1.24E-10	1.80E-09	2.67E-08	2.67E-08	1.32E-08	6.86E-08
845	258568.9	4084827	1.50E-09	2.17E-08	3.83E-07	3.83E-07	2.14E-07	1.00E-06	2.28E-10	3.31E-09	5.98E-08	5.98E-08	3.29E-08	1.56E-07	1.24E-10	1.79E-09	2.66E-08	2.66E-08	1.32E-08	6.83E-08
846	258578.8	4084849	1.46E-09	2.11E-08	3.73E-07	3.73E-07	2.08E-07	9.75E-07	2.21E-10	3.21E-09	5.82E-08	5.82E-08	3.20E-08	1.52E-07	1.20E-10	1.74E-09	2.59E-08	2.59E-08	1.28E-08	6.64E-08
847	258588.7	4084871	1.38E-09	2.00E-08	3.54E-07	3.54E-07	1.97E-07	9.26E-07	2.10E-10	3.05E-09	5.52E-08	5.52E-08	3.04E-08	1.44E-07	1.14E-10	1.65E-09	2.46E-08	2.46E-08	1.22E-08	6.30E-08
848	258598.6	4084893	1.28E-09	1.86E-08	3.28E-07	3.28E-07	1.83E-07	8.59E-07	1.95E-10	2.83E-09	5.12E-08	5.12E-08	2.82E-08	1.34E-07	1.06E-10	1.53E-09	2.28E-08	2.28E-08	1.13E-08	5.85E-08
849	258348.4	4084672	1.09E-09	1.58E-08	2.79E-07	2.79E-07	1.55E-07	7.29E-07	1.66E-10	2.40E-09	4.35E-08	4.35E-08	2.39E-08	1.13E-07	8.99E-11	1.30E-09	1.94E-08	1.94E-08	9.58E-09	4.97E-08
850	258324.1	4084673	1.09E-09	1.57E-08	2.77E-07	2.77E-07	1.55E-07	7.26E-07	1.65E-10	2.39E-09	4.33E-08	4.33E-08	2.38E-08	1.13E-07	8.95E-11	1.29E-09	1.93E-08	1.93E-08	9.54E-09	4.95E-08
851	258299.8	4084674	1.08E-09	1.56E-08	2.75E-07	2.75E-07	1.54E-07	7.21E-07	1.64E-10	2.38E-09	4.30E-08	4.30E-08	2.36E-08	1.12E-07	8.89E-11	1.29E-09	1.91E-08	1.91E-08	9.47E-09	4.91E-08
852	258275.4	4084675	1.07E-09	1.55E-08	2.73E-07	2.73E-07	1.52E-07	7.14E-07	1.62E-10	2.35E-09	4.26E-08	4.26E-08	2.34E-08	1.11E-07	8.81E-11	1.27E-09	1.90E-08	1.90E-08	9.38E-09	4.86E-08
853	258251.1	4084676	1.06E-09	1.53E-08	2.70E-07	2.70E-07	1.50E-07	7.06E-07	1.60E-10	2.33E-09	4.21E-08	4.21E-08	2.31E-08	1.10E-07	8.70E-11	1.26E-09	1.87E-08	1.87E-08	9.27E-09	4.81E-08
854	258226.8	4084677	1.04E-09	1.50E-08	2.66E-07	2.66E-07	1.48E-07	6.95E-07	1.58E-10	2.29E-09	4.15E-08	4.15E-08	2.28E-08	1.08E-07	8.57E-11	1.24E-09	1.85E-08	1.85E-08	9.13E-09	4.74E-08
855	258202.4	4084678	1.02E-09	1.48E-08	2.61E-07	2.61E-07	1.46E-07	6.84E-07	1.55E-10	2.25E-09	4.08E-08	4.08E-08	2.24E-08	1.06E-07	8.43E-11	1.22E-09	1.81E-08	1.81E-08	8.98E-09	4.66E-08
856	258178.1	4084679	1.00E-09	1.45E-08	2.56E-07	2.56E-07	1.43E-07	6.70E-07	1.52E-10	2.21E-09	4.00E-08	4.00E-08	2.20E-08	1.04E-07	8.26E-11	1.20E-09	1.78E-08	1.78E-08	8.80E-09	4.57E-08
857	258153.8	4084680	9.80E-10	1.42E-08	2.50E-07	2.50E-07	1.40E-07	6.55E-07	1.49E-10	2.16E-09	3.91E-08	3.91E-08	2.15E-08	1.02E-07	8.08E-11	1.17E-09	1.74E-08	1.74E-08	8.61E-09	4.46E-08
858	258129.4	4084681	9.56E-10	1.38E-08	2.44E-07	2.44E-07	1.36E-07	6.39E-07	1.45E-10	2.11E-09	3.81E-08	3.81E-08	2.09E-08	9.94E-08	7.88E-11	1.14E-09	1.70E-08	1.70E-08	8.39E-09	4.35E-08
859	258105.1	4084682	9.28E-10	1.34E-08	2.37E-07	2.37E-07	1.32E-07	6.21E-07	1.41E-10	2.05E-09	3.70E-08	3.70E-08	2.04E-08	9.66E-08	7.65E-11	1.11E-09	1.65E-08	1.65E-08	8.15E-09	4.23E-08
860	258080.8	4084683	8.98E-10	1.30E-08	2.29E-07	2.29E-07	1.28E-07	6.01E-07	1.36E-10	1.98E-09	3.58E-08	3.58E-08	1.97E-08	9.35E-08	7.41E-11	1.07E-09	1.59E-08	1.59E-08	7.89E-09	4.09E-08
861	258056.4	4084684	8.66E-10	1.25E-08	2.21E-07	2.21E-07	1.23E-07	5.79E-07	1.31E-10	1.91E-09	3.45E-08	3.45E-08	1.90E-08	9.01E-08	7.14E-11	1.03E-09	1.54E-08	1.54E-08	7.61E-09	3.94E-08
862	258032.1	4084685	8.31E-10	1.20E-08	2.12E-07	2.12E-07	1.18E-07	5.56E-07	1.26E-10	1.83E-09	3.31E-08	3.31E-08	1.82E-08	8.64E-08	6.85E-11	9.91E-10	1.47E-08	1.47E-08	7.30E-09	3.78E-08
863	258007.8	4084686	7.93E-10	1.15E-08	2.03E-07	2.03E-07	1.13E-07	5.31E-07	1.20E-10	1.75E-09	3.16E-08	3.16E-08	1.74E-08	8.25E-08	6.54E-11	9.46E-10	1.41E-08	1.41E-08	6.97E-09	3.61E-08
864	257983.4	4084687	7.53E-10	1.09E-08	1.92E-07	1.92E-07	1.07E-07	5.04E-07	1.14E-10	1.66E-09	3.00E-08	3.00E-08	1.65E-08	7.84E-08	6.21E-11	8.98E-10	1.34E-08	1.34E-08	6.62E-09	3.43E-08
865	257959.1	4084688	7.12E-10	1.03E-08	1.82E-07	1.82E-07	1.01E-07	4.76E-07	1.08E-10	1.57E-09	2.84E-08	2.84E-08	1.56E-08	7.40E-08	5.87E-11	8.48E-10	1.26E-08	1.26E-08	6.25E-09	3.24E-08
866	257934.8	4084689	6.68E-10	9.66E-09	1.71E-07	1.71E-07	9.51E-08	4.46E-07	1.01E-10	1.47E-09	2.66E-08	2.66E-08	1.46E-08	6.95E-08	5.50E-11	7.96E-10	1.18E-08	1.18E-08	5.86E-09	3.04E-08
867	257910.4	4084690	6.22E-10	8.99E-09	1.59E-07	1.59E-07	8.85E-08	4.16E-07	9.44E-11	1.37E-09	2.48E-08	2.48E-08	1.36E-08	6.47E-08	5.13E-11	7.41E-10	1.10E-08	1.10E-08	5.46E-09	2.83E-08
868	257886.1	4084691	5.75E-10	8.32E-09	1.47E-07	1.47E-07	8.19E-08	3.84E-07	8.73E-11	1.27E-09	2.29E-08	2.29E-08	1.26E-08	5.98E-08	4.74E-11	6.86E-10	1.02E-08	1.02E-08	5.05E-09	2.62E-08
869	257861.8	4084692	5.28E-10	7.64E-09	1.35E-07	1.35E-07	7.52E-08	3.53E-07	8.01E-11	1.16E-09	2.11E-08	2.11E-08	1.16E-08	5.49E-08	4.35E-11	6.29E-10	9.37E-09	9.37E-09	4.64E-09	2.40E-08
870	257837.4	4084693	4.81E-10	6.96E-09	1.23E-07	1.23E-07	6.85E-08	3.22E-07	7.30E-11	1.06E-09	1.92E-08	1.92E-08	1.05E-08	5.01E-08	3.97E-11	5.74E-10	8.54E-09	8.54E-09	4.23E-09	2.19E-08
871	257813.1	4084694	4.36E-10	6.30E-09	1.11E-07	1.11E-07	6.21E-08	2.91E-07	6.61E-11	9.60E-10	1.74E-08	1.74E-08	9.55E-09	4.53E-08	3.59E-11	5.20E-10	7.73E-09	7.73E-09	3.83E-09	1.98E-08
872	257788.8	4084695	3.93E-10	5.68E-09	1.00E-07	1.00E-07	5.59E-08	2.62E-07	5.96E-11	8.65E-10	1.57E-08	1.57E-08	8.61E-09	4.08E-08	3.24E-11	4.68E-10	6.96E-09	6.96E-09	3.45E-09	1.79E-08
873	257764.5	4084696	3.52E-10	5.09E-09	8.99E-08	8.99E-08	5.01E-08	2.35E-07	5.34E-11	7.76E-10	1.40E-08	1.40E-08	7.72E-09	3.66E-08	2.90E-11	4.20E-10	6.25E-09	6.25E-09	3.09E-09	1.60E-08
874	257740.1	4084697	3.15E-10	4.56E-09	8.05E-08	8.05E-08	4.49E-08	2.11E-07	4.79E-11	6.95E-10	1.26E-08	1.26E-08	6.91E-09	3.28E-08	2.60E-11	3.76E-10	5.60E-09	5.60E-09	2.77E-09	1.44E-08
875	257715.8	4084698	2.82E-10	4.09E-09	7.21E-08	7.21E-08	4.02E-08	1.89E-07	4.29E-11	6.22E-10	1.13E-08	1.13E-08	6.19E-09	2.94E-08	2.33E-11	3.37E-10	5.01E-09	5.01E-09	2.48E-09	1.29E-08
876	257691.5	4084699	2.54E-10	3.67E-09	6.48E-08	6.48E-08	3.61E-08	1.70E-07	3.85E-11	5.59E-10	1.01E-08	1.01E-08	5.56E-09	2.64E-08	2.09E-11	3.02E-10	4.50E-09	4.50E-09	2.23E-09	1.16E-08
877	257667.1	4084700	2.29E-10	3.31E-09	5.84E-08	5.84E-08	3.26E-08	1.53E-07	3.47E-11	5.04E-10	9.12E-09	9.12E-09	5.01E-09	2.38E-08	1.89E-11	2.73E-10	4.06E-09	4.06E-09	2.01E-09	1.04E-08
878	257642.8	4084701	2.07E-10	3.00E-09	5.30E-08	5.30E-08	2.95E-08	1.39E-07	3.15E-11	4.57E-10	8.27E-09	8.27E-09	4.55E-09	2.16E-08	1.71E-11	2.47E-10	3.68E-09	3.68E-09	1.82E-09	9.45E-09
879	257618.5	4084702	1.89E-10	2.74E-09	4.84E-08	4.84E-08	2.70E-08	1.27E-07	2.88E-11	4.17E-10	7.55E-09	7.55E-09	4.15E-09	1.97E-08	1.56E-11	2.26E-10	3.36E-09	3.36E-09	1.66E-09	8.63E-09
880	257594.1	4084703	1.74E-10	2.52E-09	4.45E-08	4.45E-08	2.48E-08	1.16E-07	2.64E-11	3.84E-10	6.94E-09	6.94E-09	3.82E-09	1.81E-08	1.43E-11	2.08E-10	3.09E-09	3.09E-09	1.53E-09	7.93E-09
881	257569.8	4084704	1.61E-10	2.33E-09	4.11E-08	4.11E-08	2.29E-08	1.08E-07	2.44E-11	3.55E-10	6.42E-09	6.42E-09	3.53E-09	1.67E-08	1.33E-11	1.92E-10	2.86E-09	2.86E-09	1.41E-09	7.33E-09
882	257545.5	4084705	1.50E-10	2.16E-09	3.82E-08	3.82E-08	2.13E-08	1.00E-07	2.27E-11	3.30E-10	5.97E-09	5.97E-09	3.28E-09	1.56E-08	1.23E-11	1.78E-10	2.65E-09	2.65E-09	1.31E-09	6.81E-09
883	258368	4084630	8.92E-10	1.29E-08	2.28E-07	2.28E-07	1.27E-07	5.97E-07	1.35E-10	1.97E-09	3.56E-08	3.56E-08	1.96E-08	9.28E-08	7.35E-11	1.06E-09	1.58E-08	1.58E-08	7.84E-09	4.06E-08
884	258389.7	4084638	9.34E-10	1.35E-08	2.39E-07	2.39E-07	1.33E-07	6.25E-07	1.42E-10	2.06E-09	3.72E-08	3.72E-08	2.05E-08	9.72E-08	7.70E-11	1.11E-09	1.66E-08	1.66E-08	8.20E-09	4.25E-08
885	258411.4	4084646	9.74E-10	1.41E-08	2.49E-07	2.49E-07	1.39E-07	6.51E-07	1.48E-10	2.15E-09	3.89E-08	3.89E-08	2.14E-08	1.01E-07	8.03E-11	1.16E-09	1.73E-08	1.73E-08	8.56E-09	4.44E-08
886	258433.1	4084654	1.01E-09	1.46E-08	2.59E-07	2.59E-07	1.44E-07	6.77E-07	1.54E-10	2.23E-09	4.04E-08	4.04E-08	2.22E-08	1.05E-07	8.34E-11	1.21E-09	1.80E-08	1.80E-08	8.89E-09	4.61E-08
887	258454.8	4084662	1.05E-09	1.51E-08	2.67E-07	2.67E-07	1.49E-07	7.00E-07	1.59E-10	2.31E-09	4.17E-08	4.17E-08	2.29E-08	1.09E-07	8.63E-11	1.25E-09	1.86E-08	1.86E-08	9.19E-09	4.77E-08
888	258476.5	4084670	1.08E-09	1.56E-08	2.75E-07	2.75E-07	1.53E-07	7.20E-07	1.63E-10	2.37E-09	4.29E-08	4.29E-08	2.36E-08	1.12E-07	8.87E-11	1.28E-09	1.91E-08	1.91E-08	9.45E-09	4.90E-08
889	258498.2	4084679	1.10E-09	1.59E-08	2.81E-07	2.81E-07	1.56E-07	7.35E-07	1.67E-10	2.42E-09	4.38E-08	4.38E-08	2.41E-08	1.14E-07	9.06E-11	1.31E-09	1.95E-08	1.95E-08	9.65E-09	5.01E-08
890	258519.9	4084687	1.11E-09	1.61E-08	2.84E-07	2.84E-07	1.59E-07	7.44E-07	1.69E-10	2.45E-09	4.44E-08	4.44E-08	2.44E-08	1.16E-07	9.18E-11	1.33E-09	1.98E-08	1.98E-08	9.78E-09	5.07E-08
891	258541.5	4084695	1.12E-09	1.62E-08	2.85E-07	2.85E-07	1.59E-07	7.47E-07	1.70E-10	2.46E-09	4.46E-08	4.46E-08	2.45E-08	1.16E-07	9.21E-11	1.33E-09	1.98E-08	1.98E-08	9.81E-09	5.09E-08
892	258572.8	4084724	1.16E-09	1.68E-08	2.97E-07	2.97E-07	1.66E-07	7.79E-07	1.77E-10	2.57E-09	4.64E-08	4.64E-08	2.55E-08	1.21E-07	9.60E-11	1.39E-09	2.07E-08	2.07E-08	1.02E-08	5.30E-08
893	258582.3	4084745	1.21E-09	1.75E-08	3.08E-07	3.08E-07	1.72E-07	8.07E-07	1.83E-10	2.66E-09	4.81E-08	4.81E-08	2.65E-08	1.26E-07	9.95E-11	1.44E-09	2.14E-08	2.14E-08	1.06E-08	5.50E-08
894	258591.8	4084766	1.23E-09	1.78E-08	3.14E-07	3.14E-07	1.75E-07	8.21E-07	1.86E-10	2.71E-09	4.90E-08	4.90E-08	2.69E-08	1.28E-07	1.01E-10	1.46E-09	2.18E-08	2.18E-08	1.08E-08	5.59E-08
895	258601.4	4084787	1.23E-09	1.79E-08	3.15E-07	3.15E-07	1.76E-07	8.25E-07	1.87E-10	2.72E-09	4.92E-08	4.92E-08	2.71E-08	1.28E-07	1.02E-10	1.47E-09	2.19E-08	2.19E-08	1.08E-08	5.62E-08
896	258610.9	4084808	1.22E-09	1.76E-08	3.11E-07	3.11E-07	1.73E-07	8.15E-07	1.85E-10	2.68E-09	4.86E-08	4.86E-08	2.67E-08	1.27E-07	1.00E-10	1.45E-09	2.16E-08	2.16E-08	1.07E-08	5.55E-08
897	258620.4	4084829	1.18E-09	1.71E-08	3.01E-07	3.01E-07	1.68E-07	7.89E-07	1.79E-10	2.60E-09	4.71E-08	4.71E-08	2.59E-08	1.23E-07	9.73E-11	1.41E-09	2.09E-08	2.09E-08	1.04E-08	5.38E-08
898	258630	4084850	1.12E-09	1.62E-08	2.87E-07	2.87E-07	1.60E-07	7.51E-07	1.70E-10	2.47E-09	4.48E-08	4.48E-08	2.46E-08	1.17E-07	9.26E-11	1.34E-09	1.99E-08	1.99E-08	9.86E-09	5.11E-08
899	258639.5	4084871	1.05E-09	1.52E-08	2.68E-07	2.68E-07	1.50E-07	7.03E-07	1.59E-10	2.32E-09	4.19E-08	4.19E-08	2.30E-08	1.09E-07	8.66E-11	1.25E-09	1.86E-08	1.86E-08	9.23E-09	4.79E-08
900	258649	4084892	9.68E-10	1.40E-08	2.47E-07	2.47E-07	1.38E-07	6.48E-07	1.47E-10	2.13E-09	3.86E-08	3.86E-08	2.12E-08	1.01E-07	7.98E-11	1.15E-09	1.72E-08	1.72E-08	8.51E-09	4.41E-08
901	258346.4	4084622	8.49E-10	1.23E-08	2.17E-07	2.17E-07	1.21E-07	5.68E-07	1.29E-10	1.87E-09	3.39E-08	3.39E-08	1.86E-08	8.84E-08	7.00E-11	1.01E-09	1.51E-08	1.51E-08	7.46E-09	3.87E-08
902	258322	4084623	8.41E-10	1.22E-08	2.15E-07	2.15E-07	1.20E-07	5.62E-07	1.28E-10	1.85E-09	3.35E-08	3.35E-08	1.84E-08	8.75E-08	6.93E-11	1.00E-09	1.49E-08	1.49E-08	7.39E-09	3.83E-08
903	258297.7	4084624	8.31E-10	1.20E-08	2.12E-07	2.12E-07	1.18E-07	5.56E-07	1.26E-10	1.83E-09	3.31E-08	3.31E-08	1.82E-08	8.64E-08	6.85E-11	9.90E-10	1.47E-08	1.47E-08	7.30E-09	3.78E-08
904	258273.4	4084625	8.19E-10	1.18E-08	2.09E-07	2.09E-07	1.17E-07	5.47E-07	1.24E-10	1.80E-09	3.26E-08	3.26E-08	1.79E-08	8.52E-08	6.75E-11	9.76E-10	1.45E-08	1.45E-08	7.19E-09	3.73E-08
905	258249	4084626	8.04E-10	1.16E-08	2.05E-07	2.05E-07	1.14E-07	5.38E-07	1.22E-10	1.77E-09	3.21E-08	3.21E-08	1.76E-08	8.37E-08	6.63E-11	9.59E-10	1.43E-08	1.43E-08	7.06E-09	3.66E-08
906	258224.7	4084627	7.88E-10	1.14E-08	2.01E-07	2.01E-07	1.12E-07	5.27E-07	1.20E-10	1.74E-09	3.14E-08	3.14E-08	1.73E-08	8.20E-08	6.50E-11	9.40E-10	1.40E-08	1.40E-08	6.92E-09	3.59E-08
907	258200.4	4084628	7.70E-10	1.11E-08	1.97E-07	1.97E-07	1.10E-07	5.15E-07	1.17E-10	1.70E-09	3.07E-08	3.07E-08	1.69E-08	8.01E-08	6.35E-11	9.18E-10	1.37E-08	1.37E-08	6.76E-09	3.51E-08
908	258176	4084629	7.50E-10	1.08E-08	1.92E-07	1.92E-07	1.07E-07	5.01E-07	1.14E-10	1.65E-09	2.99E-08	2.99E-08	1.64E-08	7.80E-08	6.18E-11	8.94E-10	1.33E-08	1.33E-08	6.59E-09	3.41E-08
909	258151.7	4084630	7.28E-10	1.05E-08	1.86E-07	1.86E-07	1.04E-07	4.87E-07	1.10E-10	1.60E-09	2.90E-08	2.90E-08	1.60E-08	7.57E-08	6.00E-11	8.68E-10	1.29E-08	1.29E-08	6.39E-09	3.32E-08
910	258127.4	4084631	7.04E-10	1.02E-08	1.80E-07	1.80E-07	1.00E-07	4.71E-07	1.07E-10	1.55E-09	2.81E-08	2.81E-08	1.54E-08	7.33E-08	5.81E-11	8.40E-10	1.25E-08	1.25E-08	6.19E-09	3.21E-08
911	258103	4084632	6.78E-10	9.81E-09	1.73E-07	1.73E-07	9.66E-08	4.54E-07	1.03E-10	1.49E-09	2.70E-08	2.70E-08	1.49E-08	7.06E-08	5.59E-11	8.09E-10	1.20E-08	1.20E-08	5.96E-09	3.09E-08
912	258078.7	4084633	6.51E-10	9.42E-09	1.66E-07	1.66E-07	9.27E-08	4.35E-07	9.88E-11	1.43E-09	2.60E-08	2.60E-08	1.43E-08	6.77E-08	5.37E-11	7.76E-10	1.16E-08	1.16E-08	5.72E-09	2.97E-08
913	258054.4	4084634	6.22E-10	9.00E-09	1.59E-07	1.59E-07	8.86E-08	4.16E-07	9.44E-11	1.37E-09	2.48E-08	2.48E-08	1.36E-08	6.47E-08	5.13E-11	7.42E-10	1.10E-08	1.10E-08	5.46E-09	2.83E-08
914	258030	4084635	5.92E-10	8.57E-09	1.51E-07	1.51E-07	8.43E-08	3.96E-07	8.99E-11	1.30E-09	2.36E-08	2.36E-08	1.30E-08	6.16E-08	4.88E-11	7.06E-10	1.05E-08	1.05E-08	5.20E-09	2.70E-08
915	258005.7	4084636	5.61E-10	8.12E-09	1.43E-07	1.43E-07	7.99E-08	3.75E-07	8.52E-11	1.24E-09	2.24E-08	2.24E-08	1.23E-08	5.84E-08	4.63E-11	6.69E-10	9.96E-09	9.96E-09	4.93E-09	2.56E-08
916	257981.4	4084637	5.28E-10	7.64E-09	1.35E-07	1.35E-07	7.52E-08	3.53E-07	8.02E-11	1.16E-09	2.11E-08	2.11E-08	1.16E-08	5.50E-08	4.36E-11	6.30E-10	9.38E-09	9.38E-09	4.64E-09	2.41E-08
917	257957.1	4084638	4.95E-10	7.16E-09	1.26E-07	1.26E-07	7.05E-08	3.31E-07	7.51E-11	1.09E-09	1.97E-08	1.97E-08	1.09E-08	5.15E-08	4.08E-11	5.90E-10	8.78E-09	8.78E-09	4.35E-09	2.25E-08
918	257932.7	4084639	4.61E-10	6.67E-09	1.18E-07	1.18E-07	6.56E-08	3.08E-07	7.00E-11	1.02E-09	1.84E-08	1.84E-08	1.01E-08	4.80E-08	3.80E-11	5.50E-10	8.18E-09	8.18E-09	4.05E-09	2.10E-08
919	257908.4	4084640	4.27E-10	6.18E-09	1.09E-07	1.09E-07	6.08E-08	2.86E-07	6.48E-11	9.41E-10	1.70E-08	1.70E-08	9.36E-09	4.44E-08	3.52E-11	5.09E-10	7.58E-09	7.58E-09	3.75E-09	1.94E-08
920	257884.1	4084641	3.93E-10	5.69E-09	1.00E-07	1.00E-07	5.60E-08	2.63E-07	5.97E-11	8.67E-10	1.57E-08	1.57E-08	8.63E-09	4.09E-08	3.24E-11	4.69E-10	6.98E-09	6.98E-09	3.46E-09	1.79E-08
921	257859.7	4084642	3.61E-10	5.22E-09	9.22E-08	9.22E-08	5.14E-08	2.41E-07	5.48E-11	7.95E-10	1.44E-08	1.44E-08	7.91E-09	3.75E-08	2.97E-11	4.30E-10	6.40E-09	6.40E-09	3.17E-09	1.64E-08
922	257835.4	4084643	3.30E-10	4.77E-09	8.42E-08	8.42E-08	4.69E-08	2.20E-07	5.00E-11	7.26E-10	1.31E-08	1.31E-08	7.23E-09	3.43E-08	2.72E-11	3.93E-10	5.85E-09	5.85E-09	2.89E-09	1.50E-08
923	257811.1	4084644	3.00E-10	4.34E-09	7.67E-08	7.67E-08	4.27E-08	2.01E-07	4.55E-11	6.61E-10	1.20E-08	1.20E-08	6.58E-09	3.12E-08	2.47E-11	3.58E-10	5.33E-09	5.33E-09	2.64E-09	1.37E-08
924	257786.7	4084645	2.73E-10	3.95E-09	6.97E-08	6.97E-08	3.88E-08	1.82E-07	4.14E-11	6.01E-10	1.09E-08	1.09E-08	5.98E-09	2.84E-08	2.25E-11	3.25E-10	4.84E-09	4.84E-09	2.40E-09	1.24E-08
925	257762.4	4084646	2.48E-10	3.59E-09	6.33E-08	6.33E-08	3.53E-08	1.66E-07	3.76E-11	5.46E-10	9.89E-09	9.89E-09	5.43E-09	2.58E-08	2.04E-11	2.96E-10	4.40E-09	4.40E-09	2.18E-09	1.13E-08
926	257738.1	4084647	2.25E-10	3.26E-09	5.76E-08	5.76E-08	3.21E-08	1.51E-07	3.42E-11	4.97E-10	8.99E-09	8.99E-09	4.94E-09	2.35E-08	1.86E-11	2.69E-10	4.00E-09	4.00E-09	1.98E-09	1.03E-08
927	257713.7	4084648	2.06E-10	2.97E-09	5.25E-08	5.25E-08	2.93E-08	1.37E-07	3.12E-11	4.53E-10	8.20E-09	8.20E-09	4.51E-09	2.14E-08	1.69E-11	2.45E-10	3.65E-09	3.65E-09	1.80E-09	9.36E-09
928	257689.4	4084649	1.88E-10	2.72E-09	4.80E-08	4.80E-08	2.68E-08	1.26E-07	2.85E-11	4.14E-10	7.49E-09	7.49E-09	4.12E-09	1.95E-08	1.55E-11	2.24E-10	3.33E-09	3.33E-09	1.65E-09	8.56E-09
929	257665.1	4084650	1.73E-10	2.50E-09	4.41E-08	4.41E-08	2.46E-08	1.15E-07	2.62E-11	3.80E-10	6.88E-09	6.88E-09	3.78E-09	1.80E-08	1.42E-11	2.06E-10	3.06E-09	3.06E-09	1.52E-09	7.86E-09
930	257640.7	4084651	1.59E-10	2.30E-09	4.07E-08	4.07E-08	2.27E-08	1.06E-07	2.42E-11	3.51E-10	6.35E-09	6.35E-09	3.49E-09	1.66E-08	1.31E-11	1.90E-10	2.82E-09	2.82E-09	1.40E-09	7.25E-09
931	257616.4	4084652	1.48E-10	2.14E-09	3.77E-08	3.77E-08	2.10E-08	9.87E-08	2.24E-11	3.25E-10	5.89E-09	5.89E-09	3.24E-09	1.54E-08	1.22E-11	1.76E-10	2.62E-09	2.62E-09	1.30E-09	6.72E-09
932	257592.1	4084653	1.38E-10	1.99E-09	3.51E-08	3.51E-08	1.96E-08	9.20E-08	2.09E-11	3.03E-10	5.48E-09	5.48E-09	3.01E-09	1.43E-08	1.13E-11	1.64E-10	2.44E-09	2.44E-09	1.21E-09	6.26E-09
933	257567.7	4084654	1.29E-10	1.86E-09	3.28E-08	3.28E-08	1.83E-08	8.60E-08	1.95E-11	2.83E-10	5.13E-09	5.13E-09	2.82E-09	1.34E-08	1.06E-11	1.53E-10	2.28E-09	2.28E-09	1.13E-09	5.86E-09
934	257543.4	4084655	1.21E-10	1.75E-09	3.08E-08	3.08E-08	1.72E-08	8.07E-08	1.83E-11	2.66E-10	4.81E-09	4.81E-09	2.65E-09	1.26E-08	9.95E-12	1.44E-10	2.14E-09	2.14E-09	1.06E-09	5.50E-09
935	258364.5	4084531	5.63E-10	8.15E-09	1.44E-07	1.44E-07	8.02E-08	3.77E-07	8.55E-11	1.24E-09	2.25E-08	2.25E-08	1.24E-08	5.86E-08	4.64E-11	6.72E-10	1.00E-08	1.00E-08	4.95E-09	2.57E-08
936	258386.7	4084539	5.94E-10	8.60E-09	1.52E-07	1.52E-07	8.46E-08	3.97E-07	9.02E-11	1.31E-09	2.37E-08	2.37E-08	1.30E-08	6.18E-08	4.90E-11	7.09E-10	1.05E-08	1.05E-08	5.22E-09	2.71E-08
937	258409	4084547	6.25E-10	9.04E-09	1.60E-07	1.60E-07	8.90E-08	4.18E-07	9.48E-11	1.38E-09	2.49E-08	2.49E-08	1.37E-08	6.50E-08	5.15E-11	7.45E-10	1.11E-08	1.11E-08	5.49E-09	2.85E-08
938	258431.2	4084555	6.54E-10	9.47E-09	1.67E-07	1.67E-07	9.32E-08	4.38E-07	9.93E-11	1.44E-09	2.61E-08	2.61E-08	1.43E-08	6.81E-08	5.39E-11	7.80E-10	1.16E-08	1.16E-08	5.75E-09	2.98E-08
939	258453.5	4084564	6.83E-10	9.88E-09	1.74E-07	1.74E-07	9.72E-08	4.57E-07	1.04E-10	1.50E-09	2.72E-08	2.72E-08	1.50E-08	7.10E-08	5.63E-11	8.14E-10	1.21E-08	1.21E-08	6.00E-09	3.11E-08
940	258475.7	4084572	7.10E-10	1.03E-08	1.81E-07	1.81E-07	1.01E-07	4.75E-07	1.08E-10	1.56E-09	2.83E-08	2.83E-08	1.56E-08	7.38E-08	5.85E-11	8.46E-10	1.26E-08	1.26E-08	6.23E-09	3.23E-08

941	258498	4084580	7.34E-10	1.06E-08	1.88E-07	1.88E-07	1.05E-07	4.91E-07	1.11E-10	1.62E-09	2.93E-08	2.93E-08	1.61E-08	7.64E-08	6.05E-11	8.75E-10	1.30E-08	1.30E-08	6.45E-09	3.34E-08
942	258520.2	4084588	7.56E-10	1.09E-08	1.93E-07	1.93E-07	1.08E-07	5.05E-07	1.15E-10	1.67E-09	3.01E-08	3.01E-08	1.66E-08	7.86E-08	6.23E-11	9.01E-10	1.34E-08	1.34E-08	6.64E-09	3.44E-08
943	258542.4	4084597	7.74E-10	1.12E-08	1.98E-07	1.98E-07	1.10E-07	5.18E-07	1.17E-10	1.71E-09	3.09E-08	3.09E-08	1.70E-08	8.05E-08	6.38E-11	9.23E-10	1.37E-08	1.37E-08	6.80E-09	3.52E-08
944	258564.7	4084605	7.88E-10	1.14E-08	2.01E-07	2.01E-07	1.12E-07	5.27E-07	1.20E-10	1.74E-09	3.14E-08	3.14E-08	1.73E-08	8.19E-08	6.49E-11	9.39E-10	1.40E-08	1.40E-08	6.92E-09	3.59E-08
945	258586.9	4084613	7.96E-10	1.15E-08	2.03E-07	2.03E-07	1.13E-07	5.32E-07	1.21E-10	1.75E-09	3.17E-08	3.17E-08	1.74E-08	8.28E-08	6.56E-11	9.49E-10	1.41E-08	1.41E-08	6.99E-09	3.62E-08
946	258609.2	4084621	7.98E-10	1.15E-08	2.04E-07	2.04E-07	1.14E-07	5.34E-07	1.21E-10	1.76E-09	3.18E-08	3.18E-08	1.75E-08	8.30E-08	6.58E-11	9.51E-10	1.42E-08	1.42E-08	7.01E-09	3.63E-08
947	258641.2	4084651	8.28E-10	1.20E-08	2.11E-07	2.11E-07	1.18E-07	5.53E-07	1.26E-10	1.82E-09	3.30E-08	3.30E-08	1.81E-08	8.61E-08	6.82E-11	9.87E-10	1.47E-08	1.47E-08	7.27E-09	3.77E-08
948	258651	4084673	8.55E-10	1.24E-08	2.18E-07	2.18E-07	1.22E-07	5.72E-07	1.30E-10	1.88E-09	3.41E-08	3.41E-08	1.87E-08	8.89E-08	7.05E-11	1.02E-09	1.52E-08	1.52E-08	7.51E-09	3.89E-08
949	258660.7	4084694	8.73E-10	1.26E-08	2.23E-07	2.23E-07	1.24E-07	5.83E-07	1.32E-10	1.92E-09	3.48E-08	3.48E-08	1.91E-08	9.08E-08	7.19E-11	1.04E-09	1.55E-08	1.55E-08	7.66E-09	3.97E-08
950	258670.5	4084716	8.80E-10	1.27E-08	2.25E-07	2.25E-07	1.25E-07	5.88E-07	1.34E-10	1.94E-09	3.51E-08	3.51E-08	1.93E-08	9.15E-08	7.25E-11	1.05E-09	1.56E-08	1.56E-08	7.73E-09	4.01E-08
951	258680.3	4084738	8.77E-10	1.27E-08	2.24E-07	2.24E-07	1.25E-07	5.87E-07	1.33E-10	1.93E-09	3.50E-08	3.50E-08	1.92E-08	9.13E-08	7.23E-11	1.05E-09	1.56E-08	1.56E-08	7.70E-09	3.99E-08
952	258690.1	4084759	8.63E-10	1.25E-08	2.20E-07	2.20E-07	1.23E-07	5.77E-07	1.31E-10	1.90E-09	3.44E-08	3.44E-08	1.89E-08	8.98E-08	7.11E-11	1.03E-09	1.53E-08	1.53E-08	7.58E-09	3.93E-08
953	258699.9	4084781	8.37E-10	1.21E-08	2.14E-07	2.14E-07	1.19E-07	5.60E-07	1.27E-10	1.84E-09	3.34E-08	3.34E-08	1.83E-08	8.71E-08	6.90E-11	9.98E-10	1.48E-08	1.48E-08	7.35E-09	3.81E-08
954	258709.6	4084802	8.01E-10	1.16E-08	2.05E-07	2.05E-07	1.14E-07	5.36E-07	1.22E-10	1.76E-09	3.19E-08	3.19E-08	1.76E-08	8.33E-08	6.60E-11	9.55E-10	1.42E-08	1.42E-08	7.03E-09	3.65E-08
955	258719.4	4084824	7.57E-10	1.09E-08	1.93E-07	1.93E-07	1.08E-07	5.06E-07	1.15E-10	1.67E-09	3.02E-08	3.02E-08	1.66E-08	7.87E-08	6.24E-11	9.02E-10	1.34E-08	1.34E-08	6.65E-09	3.45E-08
956	258729.2	4084846	7.07E-10	1.02E-08	1.81E-07	1.81E-07	1.01E-07	4.73E-07	1.07E-10	1.56E-09	2.82E-08	2.82E-08	1.55E-08	7.35E-08	5.83E-11	8.43E-10	1.25E-08	1.25E-08	6.21E-09	3.22E-08
957	258739	4084867	6.54E-10	9.46E-09	1.67E-07	1.67E-07	9.31E-08	4.37E-07	9.92E-11	1.44E-09	2.61E-08	2.61E-08	1.43E-08	6.80E-08	5.39E-11	7.79E-10	1.16E-08	1.16E-08	5.74E-09	2.98E-08
958	258748.7	4084889	6.00E-10	8.68E-09	1.53E-07	1.53E-07	8.54E-08	4.01E-07	9.11E-11	1.32E-09	2.39E-08	2.39E-08	1.32E-08	6.24E-08	4.95E-11	7.15E-10	1.06E-08	1.06E-08	5.27E-09	2.73E-08
959	258342.3	4084522	5.33E-10	7.70E-09	1.36E-07	1.36E-07	7.59E-08	3.56E-07	8.08E-11	1.17E-09	2.12E-08	2.12E-08	1.17E-08	5.54E-08	4.39E-11	6.35E-10	9.45E-09	9.45E-09	4.68E-09	2.43E-08
960	258317.9	4084523	5.22E-10	7.55E-09	1.33E-07	1.33E-07	7.43E-08	3.49E-07	7.92E-11	1.15E-09	2.08E-08	2.08E-08	1.14E-08	5.43E-08	4.30E-11	6.22E-10	9.26E-09	9.26E-09	4.58E-09	2.38E-08
961	258293.6	4084524	5.10E-10	7.37E-09	1.30E-07	1.30E-07	7.26E-08	3.41E-07	7.74E-11	1.12E-09	2.03E-08	2.03E-08	1.12E-08	5.30E-08	4.20E-11	6.08E-10	9.05E-09	9.05E-09	4.48E-09	2.32E-08
962	258269.3	4084525	4.97E-10	7.18E-09	1.27E-07	1.27E-07	7.07E-08	3.32E-07	7.54E-11	1.09E-09	1.98E-08	1.98E-08	1.09E-08	5.17E-08	4.09E-11	5.92E-10	8.81E-09	8.81E-09	4.36E-09	2.26E-08
963	258244.9	4084526	4.82E-10	6.98E-09	1.23E-07	1.23E-07	6.87E-08	3.23E-07	7.32E-11	1.06E-09	1.92E-08	1.92E-08	1.06E-08	5.02E-08	3.98E-11	5.75E-10	8.56E-09	8.56E-09	4.24E-09	2.20E-08
964	258220.6	4084527	4.67E-10	6.75E-09	1.19E-07	1.19E-07	6.65E-08	3.12E-07	7.09E-11	1.03E-09	1.86E-08	1.86E-08	1.02E-08	4.86E-08	3.85E-11	5.57E-10	8.28E-09	8.28E-09	4.10E-09	2.13E-08
965	258196.3	4084528	4.51E-10	6.52E-09	1.15E-07	1.15E-07	6.41E-08	3.01E-07	6.84E-11	9.93E-10	1.80E-08	1.80E-08	9.88E-09	4.69E-08	3.71E-11	5.37E-10	7.99E-09	7.99E-09	3.96E-09	2.05E-08
966	258171.9	4084529	4.33E-10	6.27E-09	1.11E-07	1.11E-07	6.17E-08	2.90E-07	6.58E-11	9.55E-10	1.73E-08	1.73E-08	9.50E-09	4.51E-08	3.57E-11	5.17E-10	7.69E-09	7.69E-09	3.81E-09	1.97E-08
967	258147.6	4084530	4.15E-10	6.01E-09	1.06E-07	1.06E-07	5.91E-08	2.78E-07	6.30E-11	9.15E-10	1.66E-08	1.66E-08	9.10E-09	4.32E-08	3.42E-11	4.95E-10	7.37E-09	7.37E-09	3.65E-09	1.89E-08
968	258123.3	4084531	3.97E-10	5.74E-09	1.01E-07	1.01E-07	5.65E-08	2.65E-07	6.02E-11	8.74E-10	1.58E-08	1.58E-08	8.70E-09	4.13E-08	3.27E-11	4.73E-10	7.04E-09	7.04E-09	3.48E-09	1.81E-08
969	258098.9	4084532	3.78E-10	5.46E-09	9.64E-08	9.64E-08	5.38E-08	2.52E-07	5.73E-11	8.32E-10	1.51E-08	1.51E-08	8.28E-09	3.93E-08	3.11E-11	4.50E-10	6.70E-09	6.70E-09	3.32E-09	1.72E-08
970	258074.6	4084533	3.58E-10	5.18E-09	9.15E-08	9.15E-08	5.10E-08	2.39E-07	5.43E-11	7.89E-10	1.43E-08	1.43E-08	7.85E-09	3.73E-08	2.95E-11	4.27E-10	6.35E-09	6.35E-09	3.14E-09	1.63E-08
971	258050.3	4084534	3.38E-10	4.89E-09	8.64E-08	8.64E-08	4.82E-08	2.26E-07	5.13E-11	7.45E-10	1.35E-08	1.35E-08	7.42E-09	3.52E-08	2.79E-11	4.03E-10	6.00E-09	6.00E-09	2.97E-09	1.54E-08
972	258025.9	4084535	3.18E-10	4.61E-09	8.13E-08	8.13E-08	4.54E-08	2.13E-07	4.83E-11	7.02E-10	1.27E-08	1.27E-08	6.98E-09	3.31E-08	2.63E-11	3.80E-10	5.65E-09	5.65E-09	2.80E-09	1.45E-08
973	258001.6	4084536	2.99E-10	4.32E-09	7.63E-08	7.63E-08	4.25E-08	2.00E-07	4.53E-11	6.58E-10	1.19E-08	1.19E-08	6.55E-09	3.11E-08	2.46E-11	3.56E-10	5.30E-09	5.30E-09	2.62E-09	1.36E-08
974	257977.3	4084537	2.79E-10	4.04E-09	7.13E-08	7.13E-08	3.98E-08	1.87E-07	4.24E-11	6.15E-10	1.11E-08	1.11E-08	6.12E-09	2.90E-08	2.30E-11	3.33E-10	4.95E-09	4.95E-09	2.45E-09	1.27E-08
975	257952.9	4084538	2.60E-10	3.76E-09	6.64E-08	6.64E-08	3.70E-08	1.74E-07	3.95E-11	5.73E-10	1.04E-08	1.04E-08	5.70E-09	2.71E-08	2.14E-11	3.10E-10	4.62E-09	4.62E-09	2.28E-09	1.18E-08
976	257928.6	4084539	2.42E-10	3.50E-09	6.18E-08	6.18E-08	3.44E-08	1.62E-07	3.67E-11	5.33E-10	9.64E-09	9.64E-09	5.30E-09	2.52E-08	1.99E-11	2.88E-10	4.29E-09	4.29E-09	2.12E-09	1.10E-08
977	257904.3	4084540	2.24E-10	3.24E-09	5.73E-08	5.73E-08	3.19E-08	1.50E-07	3.40E-11	4.94E-10	8.94E-09	8.94E-09	4.92E-09	2.33E-08	1.85E-11	2.67E-10	3.98E-09	3.98E-09	1.97E-09	1.02E-08
978	257879.9	4084541	2.08E-10	3.01E-09	5.31E-08	5.31E-08	2.96E-08	1.39E-07	3.15E-11	4.58E-10	8.29E-09	8.29E-09	4.56E-09	2.16E-08	1.71E-11	2.48E-10	3.69E-09	3.69E-09	1.82E-09	9.46E-09
979	257855.6	4084542	1.92E-10	2.78E-09	4.91E-08	4.91E-08	2.74E-08	1.29E-07	2.92E-11	4.24E-10	7.67E-09	7.67E-09	4.22E-09	2.00E-08	1.59E-11	2.29E-10	3.41E-09	3.41E-09	1.69E-09	8.76E-09
980	257831.3	4084543	1.78E-10	2.58E-09	4.55E-08	4.55E-08	2.54E-08	1.19E-07	2.71E-11	3.93E-10	7.11E-09	7.11E-09	3.91E-09	1.85E-08	1.47E-11	2.13E-10	3.16E-09	3.16E-09	1.57E-09	8.12E-09
981	257807	4084544	1.65E-10	2.39E-09	4.22E-08	4.22E-08	2.35E-08	1.11E-07	2.51E-11	3.64E-10	6.59E-09	6.59E-09	3.63E-09	1.72E-08	1.36E-11	1.97E-10	2.93E-09	2.93E-09	1.45E-09	7.53E-09
982	257782.6	4084545	1.54E-10	2.22E-09	3.92E-08	3.92E-08	2.19E-08	1.03E-07	2.33E-11	3.39E-10	6.13E-09	6.13E-09	3.37E-09	1.60E-08	1.27E-11	1.83E-10	2.73E-09	2.73E-09	1.35E-09	7.00E-09
983	257758.3	4084546	1.43E-10	2.07E-09	3.65E-08	3.65E-08	2.04E-08	9.57E-08	2.17E-11	3.15E-10	5.70E-09	5.70E-09	3.14E-09	1.49E-08	1.18E-11	1.71E-10	2.54E-09	2.54E-09	1.26E-09	6.51E-09
984	257734	4084547	1.34E-10	1.93E-09	3.41E-08	3.41E-08	1.90E-08	8.93E-08	2.03E-11	2.94E-10	5.32E-09	5.32E-09	2.93E-09	1.39E-08	1.10E-11	1.59E-10	2.37E-09	2.37E-09	1.17E-09	6.08E-09
985	257709.6	4084548	1.25E-10	1.81E-09	3.19E-08	3.19E-08	1.78E-08	8.36E-08	1.90E-11	2.75E-10	4.98E-09	4.98E-09	2.74E-09	1.30E-08	1.03E-11	1.49E-10	2.22E-09	2.22E-09	1.10E-09	5.69E-09
986	257685.3	4084549	1.17E-10	1.70E-09	3.00E-08	3.00E-08	1.67E-08	7.85E-08	1.78E-11	2.59E-10	4.68E-09	4.68E-09	2.57E-09	1.22E-08	9.68E-12	1.40E-10	2.08E-09	2.08E-09	1.03E-09	5.35E-09
987	257661	4084550	1.11E-10	1.60E-09	2.82E-08	2.82E-08	1.57E-08	7.39E-08	1.68E-11	2.44E-10	4.41E-09	4.41E-09	2.42E-09	1.15E-08	9.11E-12	1.32E-10	1.96E-09	1.96E-09	9.71E-10	5.03E-09
988	257636.6	4084551	1.04E-10	1.51E-09	2.67E-08	2.67E-08	1.49E-08	6.98E-08	1.58E-11	2.30E-10	4.16E-09	4.16E-09	2.29E-09	1.09E-08	8.61E-12	1.24E-10	1.85E-09	1.85E-09	9.17E-10	4.75E-09
989	257612.3	4084552	9.89E-11	1.43E-09	2.53E-08	2.53E-08	1.41E-08	6.61E-08	1.50E-11	2.18E-10	3.94E-09	3.94E-09	2.17E-09	1.03E-08	8.15E-12	1.18E-10	1.75E-09	1.75E-09	8.68E-10	4.50E-09
990	257588	4084553	9.38E-11	1.36E-09	2.40E-08	2.40E-08	1.34E-08	6.28E-08	1.42E-11	2.07E-10	3.74E-09	3.74E-09	2.06E-09	9.76E-09	7.74E-12	1.12E-10	1.67E-09	1.67E-09	8.24E-10	4.27E-09
991	257563.6	4084554	8.93E-11	1.29E-09	2.28E-08	2.28E-08	1.27E-08	5.97E-08	1.35E-11	1.97E-10	3.56E-09	3.56E-09	1.96E-09	9.29E-09	7.36E-12	1.06E-10	1.58E-09	1.58E-09	7.84E-10	4.07E-09
992	257539.3	4084555	8.50E-11	1.23E-09	2.17E-08	2.17E-08	1.21E-08	5.69E-08	1.29E-11	1.87E-10	3.39E-09	3.39E-09	1.86E-09	8.85E-09	7.01E-12	1.01E-10	1.51E-09	1.51E-09	7.47E-10	3.87E-09
993	258360.7	4084431	3.66E-10	5.29E-09	9.34E-08	9.34E-08	5.21E-08	2.45E-07	5.55E-11	8.06E-10	1.46E-08	1.46E-08	8.02E-09	3.81E-08	3.02E-11	4.36E-10	6.49E-09	6.49E-09	3.21E-09	1.67E-08
994	258383.3	4084439	3.89E-10	5.63E-09	9.94E-08	9.94E-08	5.54E-08	2.60E-07	5.90E-11	8.57E-10	1.55E-08	1.55E-08	8.53E-09	4.05E-08	3.21E-11	4.64E-10	6.90E-09	6.90E-09	3.42E-09	1.77E-08
995	258405.9	4084448	4.12E-10	5.96E-09	1.05E-07	1.05E-07	5.87E-08	2.76E-07	6.25E-11	9.08E-10	1.64E-08	1.64E-08	9.03E-09	4.29E-08	3.40E-11	4.91E-10	7.31E-09	7.31E-09	3.62E-09	1.88E-08
996	258428.5	4084456	4.35E-10	6.29E-09	1.11E-07	1.11E-07	6.20E-08	2.91E-07	6.60E-11	9.59E-10	1.74E-08	1.74E-08	9.54E-09	4.53E-08	3.59E-11	5.19E-10	7.72E-09	7.72E-09	3.82E-09	1.98E-08
997	258451.1	4084464	4.57E-10	6.62E-09	1.17E-07	1.17E-07	6.51E-08	3.06E-07	6.94E-11	1.01E-09	1.82E-08	1.82E-08	1.00E-08	4.76E-08	3.77E-11	5.45E-10	8.12E-09	8.12E-09	4.02E-09	2.08E-08
998	258473.7	4084473	4.79E-10	6.93E-09	1.22E-07	1.22E-07	6.83E-08	3.21E-07	7.28E-11	1.06E-09	1.91E-08	1.91E-08	1.05E-08	4.99E-08	3.95E-11	5.72E-10	8.51E-09	8.51E-09	4.21E-09	2.18E-08
999	258496.3	4084481	5.01E-10	7.24E-09	1.28E-07	1.28E-07	7.13E-08	3.35E-07	7.60E-11	1.10E-09	2.00E-08	2.00E-08	1.10E-08	5.21E-08	4.13E-11	5.97E-10	8.89E-09	8.89E-09	4.40E-09	2.28E-08
1000	258518.9	4084489	5.21E-10	7.54E-09	1.33E-07	1.33E-07	7.42E-08	3.48E-07	7.91E-11	1.15E-09	2.08E-08	2.08E-08	1.14E-08	5.42E-08	4.29E-11	6.21E-10	9.24E-09	9.24E-09	4.58E-09	2.37E-08
1001	258541.5	4084498	5.40E-10	7.81E-09	1.38E-07	1.38E-07	7.69E-08	3.61E-07	8.19E-11	1.19E-09	2.15E-08	2.15E-08	1.18E-08	5.62E-08	4.45E-11	6.44E-10	9.58E-09	9.58E-09	4.74E-09	2.46E-08
1002	258564.1	4084506	5.57E-10	8.06E-09	1.42E-07	1.42E-07	7.93E-08	3.72E-07	8.45E-11	1.23E-09	2.22E-08	2.22E-08	1.22E-08	5.80E-08	4.59E-11	6.64E-10	9.88E-09	9.88E-09	4.89E-09	2.54E-08
1003	258586.6	4084514	5.72E-10	8.27E-09	1.46E-07	1.46E-07	8.15E-08	3.83E-07	8.68E-11	1.26E-09	2.28E-08	2.28E-08	1.25E-08	5.95E-08	4.72E-11	6.82E-10	1.02E-08	1.02E-08	5.02E-09	2.61E-08
1004	258609.2	4084523	5.84E-10	8.45E-09	1.49E-07	1.49E-07	8.32E-08	3.91E-07	8.87E-11	1.29E-09	2.33E-08	2.33E-08	1.28E-08	6.08E-08	4.82E-11	6.97E-10	1.04E-08	1.04E-08	5.13E-09	2.66E-08
1005	258631.8	4084531	5.94E-10	8.59E-09	1.52E-07	1.52E-07	8.45E-08	3.97E-07	9.01E-11	1.31E-09	2.37E-08	2.37E-08	1.30E-08	6.18E-08	4.89E-11	7.08E-10	1.05E-08	1.05E-08	5.21E-09	2.70E-08
1006	258654.4	4084540	5.99E-10	8.67E-09	1.53E-07	1.53E-07	8.54E-08	4.01E-07	9.10E-11	1.32E-09	2.39E-08	2.39E-08	1.31E-08	6.24E-08	4.94E-11	7.15E-10	1.06E-08	1.06E-08	5.26E-09	2.73E-08
1007	258677	4084548	6.01E-10	8.70E-09	1.54E-07	1.54E-07	8.56E-08	4.02E-07	9.13E-11	1.32E-09	2.40E-08	2.40E-08	1.32E-08	6.26E-08	4.96E-11	7.17E-10	1.07E-08	1.07E-08	5.28E-09	2.74E-08
1008	258709.5	4084578	6.20E-10	8.97E-09	1.58E-07	1.58E-07	8.83E-08	4.15E-07	9.41E-11	1.37E-09	2.47E-08	2.47E-08	1.36E-08	6.45E-08	5.11E-11	7.40E-10	1.10E-08	1.10E-08	5.45E-09	2.83E-08
1009	258719.5	4084600	6.39E-10	9.25E-09	1.63E-07	1.63E-07	9.10E-08	4.28E-07	9.70E-11	1.41E-09	2.55E-08	2.55E-08	1.40E-08	6.65E-08	5.27E-11	7.62E-10	1.13E-08	1.13E-08	5.62E-09	2.91E-08
1010	258729.4	4084622	6.54E-10	9.45E-09	1.67E-07	1.67E-07	9.31E-08	4.37E-07	9.92E-11	1.44E-09	2.61E-08	2.61E-08	1.43E-08	6.80E-08	5.39E-11	7.79E-10	1.16E-08	1.16E-08	5.74E-09	2.98E-08
1011	258739.3	4084644	6.62E-10	9.58E-09	1.69E-07	1.69E-07	9.43E-08	4.43E-07	1.01E-10	1.46E-09	2.64E-08	2.64E-08	1.45E-08	6.89E-08	5.46E-11	7.90E-10	1.17E-08	1.17E-08	5.82E-09	3.02E-08
1012	258749.2	4084666	6.64E-10	9.61E-09	1.70E-07	1.70E-07	9.46E-08	4.44E-07	1.01E-10	1.46E-09	2.65E-08	2.65E-08	1.46E-08	6.91E-08	5.48E-11	7.92E-10	1.18E-08	1.18E-08	5.84E-09	3.03E-08
1013	258759.2	4084688	6.60E-10	9.54E-09	1.69E-07	1.69E-07	9.40E-08	4.41E-07	1.00E-10	1.45E-09	2.63E-08	2.63E-08	1.45E-08	6.87E-08	5.44E-11	7.87E-10	1.17E-08	1.17E-08	5.80E-09	3.01E-08
1014	258769.1	4084710	6.48E-10	9.38E-09	1.66E-07	1.66E-07	9.23E-08	4.34E-07	9.84E-11	1.43E-09	2.59E-08	2.59E-08	1.42E-08	6.75E-08	5.35E-11	7.73E-10	1.15E-08	1.15E-08	5.69E-09	2.95E-08
1015	258779	4084732	6.30E-10	9.12E-09	1.61E-07	1.61E-07	8.98E-08	4.22E-07	9.57E-11	1.39E-09	2.51E-08	2.51E-08	1.38E-08	6.56E-08	5.20E-11	7.52E-10	1.12E-08	1.12E-08	5.54E-09	2.87E-08
1016	258789	4084754	6.06E-10	8.77E-09	1.55E-07	1.55E-07	8.63E-08	4.05E-07	9.20E-11	1.34E-09	2.42E-08	2.42E-08	1.33E-08	6.31E-08	5.00E-11	7.23E-10	1.08E-08	1.08E-08	5.33E-09	2.76E-08
1017	258798.9	4084776	5.78E-10	8.35E-09	1.48E-07	1.48E-07	8.23E-08	3.86E-07	8.77E-11	1.27E-09	2.30E-08	2.30E-08	1.27E-08	6.01E-08	4.76E-11	6.89E-10	1.02E-08	1.02E-08	5.07E-09	2.63E-08
1018	258808.8	4084798	5.45E-10	7.89E-09	1.39E-07	1.39E-07	7.76E-08	3.65E-07	8.27E-11	1.20E-09	2.17E-08	2.17E-08	1.20E-08	5.67E-08	4.49E-11	6.50E-10	9.67E-09	9.67E-09	4.79E-09	2.48E-08
1019	258818.8	4084820	5.11E-10	7.38E-09	1.30E-07	1.30E-07	7.27E-08	3.41E-07	7.75E-11	1.12E-09	2.04E-08	2.04E-08	1.12E-08	5.31E-08	4.21E-11	6.09E-10	9.06E-09	9.06E-09	4.48E-09	2.32E-08
1020	258828.7	4084842	4.75E-10	6.87E-09	1.21E-07	1.21E-07	6.76E-08	3.18E-07	7.21E-11	1.05E-09	1.89E-08	1.89E-08	1.04E-08	4.94E-08	3.91E-11	5.66E-10	8.43E-09	8.43E-09	4.17E-09	2.16E-08
1021	258838.6	4084864	4.40E-10	6.36E-09	1.12E-07	1.12E-07	6.26E-08	2.94E-07	6.67E-11	9.69E-10	1.75E-08	1.75E-08	9.64E-09	4.57E-08	3.62E-11	5.24E-10	7.80E-09	7.80E-09	3.86E-09	2.00E-08
1022	258848.5	4084886	4.05E-10	5.86E-09	1.04E-07	1.04E-07	5.77E-08	2.71E-07	6.15E-11	8.93E-10	1.62E-08	1.62E-08	8.89E-09	4.22E-08	3.34E-11	4.83E-10	7.19E-09	7.19E-09	3.56E-09	1.85E-08
1023	258338.1	4084422	3.43E-10	4.96E-09	8.76E-08	8.76E-08	4.88E-08	2.29E-07	5.21E-11	7.56E-10	1.37E-08	1.37E-08	7.52E-09	3.57E-08	2.83E-11	4.09E-10	6.09E-09	6.09E-09	3.01E-09	1.56E-08
1024	258313.8	4084423	3.33E-10	4.81E-09	8.50E-08	8.50E-08	4.74E-08	2.23E-07	5.05E-11	7.33E-10	1.33E-08	1.33E-08	7.30E-09	3.46E-08	2.74E-11	3.97E-10	5.90E-09	5.90E-09	2.92E-09	1.52E-08
1025	258289.5	4084424	3.22E-10	4.66E-09	8.23E-08	8.23E-08	4.59E-08	2.15E-07	4.89E-11	7.10E-10	1.28E-08	1.28E-08	7.06E-09	3.35E-08	2.65E-11	3.84E-10	5.71E-09	5.71E-09	2.83E-09	1.47E-08
1026	258265.2	4084425	3.11E-10	4.49E-09	7.94E-08	7.94E-08	4.43E-08	2.08E-07	4.72E-11	6.85E-10	1.24E-08	1.24E-08	6.81E-09	3.23E-08	2.56E-11	3.70E-10	5.51E-09	5.51E-09	2.73E-09	1.42E-08
1027	258240.8	4084426	2.99E-10	4.32E-09	7.63E-08	7.63E-08	4.26E-08	2.00E-07	4.54E-11	6.59E-10	1.19E-08	1.19E-08	6.55E-09	3.11E-08	2.46E-11	3.56E-10	5.30E-09	5.30E-09	2.63E-09	1.36E-08
1028	258216.5	4084427	2.87E-10	4.15E-09	7.32E-08	7.32E-08	4.08E-08	1.92E-07	4.35E-11	6.32E-10	1.14E-08	1.14E-08	6.29E-09	2.98E-08	2.36E-11	3.42E-10	5.09E-09	5.09E-09	2.52E-09	1.31E-08
1029	258192.2	4084428	2.74E-10	3.96E-09	7.00E-08	7.00E-08	3.90E-08	1.83E-07	4.16E-11	6.04E-10	1.09E-08	1.09E-08	6.01E-09	2.85E-08	2.26E-11	3.27E-10	4.86E-09	4.86E-09	2.41E-09	1.25E-08
1030	258167.8	4084429	2.61E-10	3.78E-09	6.67E-08	6.67E-08	3.72E-08	1.75E-07	3.97E-11	5.76E-10	1.04E-08	1.04E-08	5.73E-09	2.72E-08	2.15E-11	3.11E-10	4.64E-09	4.64E-09	2.29E-09	1.19E-08
1031	258143.5	4084430	2.48E-10	3.59E-09	6.34E-08	6.34E-08	3.54E-08	1.66E-07	3.77E-11	5.47E-10	9.90E-09	9.90E-09	5.44E-09	2.58E-08	2.05E-11	2.96E-10	4.41E-09	4.41E-09	2.18E-09	1.13E-08
1032	258119.2	4084431	2.35E-10	3.41E-09	6.01E-08	6.01E-08	3.35E-08	1.57E-07	3.57E-11	5.19E-10	9.39E-09	9.39E-09	5.16E-09	2.45E-08	1.94E-11	2.81E-10	4.18E-09	4.18E-09	2.07E-09	1.07E-08
1033	258094.8	4084432	2.23E-10	3.22E-09	5.69E-08	5.69E-08	3.17E-08	1.49E-07	3.38E-11	4.91E-10	8.88E-09	8.88E-09	4.88E-09	2.32E-08	1.84E-11	2.65E-10	3.95E-09	3.95E-09	1.96E-09	1.01E-08
1034	258070.5	4084433	2.10E-10	3.04E-09	5.37E-08	5.37E-08	2.99E-08	1.41E-07	3.19E-11	4.63E-10	8.38E-09	8.38E-09	4.61E-09	2.19E-08	1.73E-11	2.51E-10	3.73E-09	3.73E-09	1.85E-09	9.57E-09
1035	258046.2	4084434	1.98E-10	2.86E-09	5.06E-08	5.06E-08	2.82E-08	1.32E-07	3.00E-11	4.36E-10	7.89E-09	7.89E-09	4.34E-09	2.06E-08	1.63E-11	2.36E-10	3.51E-09	3.51E-09	1.74E-09	9.02E-09
1036	258021.8	4084435	1.86E-10	2.69E-09	4.75E-08	4.75E-08	2.65E-08	1.24E-07	2.83E-11	4.10E-10	7.42E-09	7.42E-09	4.08E-09	1.94E-08	1.53E-11	2.22E-10	3.30E-09	3.30E-09	1.63E-09	8.48E-09
1037	257997.5	4084436	1.75E-10	2.53E-09	4.47E-08	4.47E-08	2.49E-08	1.17E-07	2.65E-11	3.85E-10	6.97E-09	6.97E-09	3.83E-09	1.82E-08	1.44E-11	2.08E-10	3.10E-09	3.10E-09	1.54E-09	7.96E-09
1038	257973.2	4084437	1.64E-10	2.37E-09	4.19E-08	4.19E-08	2.34E-08	1.10E-07	2.49E-11	3.62E-10	6.54E-09	6.54E-09	3.60E-09	1.71E-08	1.35E-11	1.96E-10	2.91E-09	2.91E-09	1.44E-09	7.47E-09
1039	257948.8	4084438	1.54E-10	2.23E-09	3.93E-08	3.93E-08	2.19E-08	1.03E-07	2.34E-11	3.39E-10	6.14E-09	6.14E-09	3.37E-09	1.60E-08	1.27E-11	1.83E-10	2.73E-09	2.73E-09	1.35E-09	7.01E-09
1040	257924.5	4084439	1.44E-10	2.09E-09	3.69E-08	3.69E-08	2.06E-08	9.65E-08	2.19E-11	3.18E-10	5.76E-09	5.76E-09	3.16E-09	1.50E-08	1.19E-11	1.72E-10	2.56E-09	2.56E-09	1.27E-09	6.57E-09
1041	257900.2	4084440	1.35E-10	1.96E-09	3.46E-08	3.46E-08	1.93E-08	9.05E-08	2.05E-11	2.98E-10	5.40E-09	5.40E-09	2.97E-09	1.41E-08	1.12E-11	1.61E-10	2.40E-09	2.40E-09	1.19E-09	6.17E-09
1042	257875.8	4084441	1.27E-10	1.84E-09	3.24E-08	3.24E-08	1.81E-08	8.49E-08	1.93E-11	2.80E-10	5.07E-09	5.07E-09	2.79E-09	1.32E-08	1.05E-11	1.51E-10	2.25E-09	2.25E-09	1.12E-09	5.79E-09
1043	257851.5	4084442	1.19E-10	1.73E-09	3.05E-08	3.05E-08	1.70E-08	7.98E-08	1.81E-11	2.63E-10	4.76E-09	4.76E-09	2.62E-09	1.24E-08	9.83E-12	1.42E-10	2.12E-09	2.12E-09	1.05E-09	5.43E-09
1044	257827.2	4084443	1.12E-10	1.62E-09	2.86E-08	2.86E-08	1.60E-08	7.50E-08	1.70E-11	2.47E-10	4.47E-09	4.47E-09	2.46E-09	1.17E-08	9.25E-12	1.34E-10	1.99E-09	1.99E-09	9.85E-10	5.11E-09
1045	257802.8	4084444	1.06E-10	1.53E-09	2.70E-08	2.70E-08	1.50E-08	7.06E-08	1.60E-11	2.33E-10	4.21E-09	4.21E-09	2.32E-09	1.10E-08	8.71E-12	1.26E-10	1.87E-09	1.87E-09	9.28E-10	4.81E-09
1046	257778.5	4084445	9.97E-11	1.44E-09	2.55E-08	2.55E-08	1.42E-08	6.66E-08	1.51E-11	2.20E-10	3.97E-09	3.97E-09	2.19E-09	1.04E-08	8.22E-12	1.19E-10	1.77E-09	1.77E-09	8.75E-10	4.54E-09
1047	257754.2	4084446	9.43E-11	1.36E-09	2.41E-08	2.41E-08	1.34E-08	6.30E-08	1.43E-11	2.08E-10	3.76E-09	3.76E-09	2.07E-09	9.81E-09	7.77E-12	1.12E-10	1.67E-09	1.67E-09	8.28E-10	4.29E-09
1048	257729.9	4084447	8.94E-11	1.29E-09	2.28E-08	2.28E-08	1.27E-08	5.98E-08	1.36E-11	1.97E-10	3.57E-09	3.57E-09	1.96E-09	9.30E-09	7.37E-12	1.07E-10	1.59E-09	1.59E-09	7.85E-10	4.07E-09
1049	257705.5	4084448	8.50E-11	1.23E-09	2.17E-08	2.17E-08	1.21E-08	5.69E-08	1.29E-11	1.87E-10	3.39E-09	3.39E-09	1.86E-09	8.85E-09	7.01E-12	1.01E-10	1.51E-09	1.51E-09	7.47E-10	3.87E-09
1050	257681.2	4084449	8.11E-11	1.17E-09	2.07E-08	2.07E-08	1.15E-08	5.42E-08	1.23E-11	1.79E-10	3.23E-09	3.23E-09	1.78E-09	8.44E-09	6.68E-12	9.67E-11	1.44E-09	1.44E-09	7.12E-10	3.69E-09
1051	257656.9	4084450	7.75E-11	1.12E-09	1.98E-08	1.98E-08	1.10E-08	5.19E-08	1.18E-11	1.71E-10	3.09E-09	3.09E-09	1.70E-09	8.07E-09	6.39E-12	9.25E-11	1.38E-09	1.38E-09	6.81E-10	3.53E-09
1052	257632.5	4084451	7.43E-11	1.07E-09	1.90E-08	1.90E-08	1.06E-08	4.97E-08	1.13E-11	1.64E-10	2.96E-09	2.96E-09	1.63E-09	7.73E-09	6.13E-12	8.86E-11	1.32E-09	1.32E-09	6.53E-10	3.38E-09
1053	257608.2	4084452	7.14E-11	1.03E-09	1.82E-08	1.82E-08	1.02E-08	4.77E-08	1.08E-11	1.57E-10	2.85E-09	2.85E-09	1.56E-09	7.43E-09	5.88E-12	8.51E-11	1.27E-09	1.27E-09	6.27E-10	3.25E-09
1054	257583.9	4084453	6.87E-11	9.93E-10	1.75E-08	1.75E-08	9.78E-09	4.59E-08	1.04E-11	1.51E-10	2.74E-09	2.74E-09	1.51E-09	7.14E-09	5.66E-12	8.18E-11	1.22E-09	1.22E-09	6.03E-10	3.13E-09
1055	257559.5	4084454	6.61E-11	9.56E-10	1.69E-08	1.69E-08	9.41E-09	4.42E-08	1.00E-11	1.46E-10	2.64E-09	2.64E-09	1.45E-09	6.88E-09	5.45E-12	7.88E-11	1.17E-09	1.17E-09	5.81E-10	3.01E-09
1056	257535.2	4084455	6.37E-11	9.22E-10	1.63E-08	1.63E-08	9.07E-09	4.26E-08	9.67E-12	1.40E-10	2.54E-09	2.54E-09	1.40E-09	6.63E-09	5.25E-12	7.60E-11	1.13E-09	1.13E-09	5.60E-10	2.90E-09
1057	258356.9	4084331	2.43E-10	3.51E-09	6.20E-08	6.20E-08	3.46E-08	1.62E-07	3.68E-11	5.35E-10	9.68E-09	9.68E-09	5.32E-09	2.52E-08	2.00E-11	2.89E-10	4.31E-09	4.31E-09	2.13E-09	1.11E-08
1058	258379.7	4084339	2.59E-10	3.75E-09	6.63E-08	6.63E-08	3.69E-08	1.73E-07	3.94E-11	5.72E-10	1.03E-08	1.03E-08	5.69E-09	2.70E-08	2.14E-11	3.09E-10	4.60E-09	4.60E-09	2.28E-09	1.18E-08

1059	258402.5	4084348	2.77E-10	4.00E-09	7.07E-08	7.07E-08	3.94E-08	1.85E-07	4.20E-11	6.10E-10	1.10E-08	1.10E-08	6.07E-09	2.88E-08	2.28E-11	3.30E-10	4.91E-09	4.91E-09	2.43E-09	1.26E-08
1060	258425.4	4084356	2.94E-10	4.25E-09	7.51E-08	7.51E-08	4.19E-08	1.97E-07	4.46E-11	6.48E-10	1.17E-08	1.17E-08	6.45E-09	3.06E-08	2.42E-11	3.51E-10	5.22E-09	5.22E-09	2.58E-09	1.34E-08
1061	258448.2	4084365	3.12E-10	4.51E-09	7.96E-08	7.96E-08	4.44E-08	2.08E-07	4.73E-11	6.86E-10	1.24E-08	1.24E-08	6.83E-09	3.24E-08	2.57E-11	3.71E-10	5.53E-09	5.53E-09	2.74E-09	1.42E-08
1062	258471	4084373	3.29E-10	4.76E-09	8.40E-08	8.40E-08	4.69E-08	2.20E-07	4.99E-11	7.25E-10	1.31E-08	1.31E-08	7.21E-09	3.42E-08	2.71E-11	3.92E-10	5.84E-09	5.84E-09	2.89E-09	1.50E-08
1063	258493.8	4084382	3.46E-10	5.01E-09	8.85E-08	8.85E-08	4.93E-08	2.32E-07	5.26E-11	7.63E-10	1.38E-08	1.38E-08	7.59E-09	3.60E-08	2.85E-11	4.13E-10	6.14E-09	6.14E-09	3.04E-09	1.58E-08
1064	258516.7	4084390	3.63E-10	5.26E-09	9.28E-08	9.28E-08	5.17E-08	2.43E-07	5.51E-11	8.01E-10	1.45E-08	1.45E-08	7.97E-09	3.78E-08	3.00E-11	4.33E-10	6.45E-09	6.45E-09	3.19E-09	1.65E-08
1065	258539.5	4084399	3.80E-10	5.49E-09	9.70E-08	9.70E-08	5.41E-08	2.54E-07	5.77E-11	8.37E-10	1.51E-08	1.51E-08	8.33E-09	3.95E-08	3.13E-11	4.53E-10	6.74E-09	6.74E-09	3.34E-09	1.73E-08
1066	258562.3	4084407	3.96E-10	5.72E-09	1.01E-07	1.01E-07	5.64E-08	2.65E-07	6.01E-11	8.72E-10	1.58E-08	1.58E-08	8.68E-09	4.12E-08	3.26E-11	4.72E-10	7.02E-09	7.02E-09	3.48E-09	1.80E-08
1067	258585.2	4084416	4.11E-10	5.94E-09	1.05E-07	1.05E-07	5.85E-08	2.75E-07	6.23E-11	9.05E-10	1.64E-08	1.64E-08	9.01E-09	4.27E-08	3.39E-11	4.90E-10	7.29E-09	7.29E-09	3.61E-09	1.87E-08
1068	258608	4084424	4.25E-10	6.14E-09	1.08E-07	1.08E-07	6.05E-08	2.84E-07	6.44E-11	9.36E-10	1.69E-08	1.69E-08	9.31E-09	4.42E-08	3.50E-11	5.06E-10	7.53E-09	7.53E-09	3.73E-09	1.93E-08
1069	258630.8	4084432	4.37E-10	6.32E-09	1.12E-07	1.12E-07	6.23E-08	2.92E-07	6.64E-11	9.63E-10	1.74E-08	1.74E-08	9.58E-09	4.55E-08	3.60E-11	5.21E-10	7.76E-09	7.76E-09	3.84E-09	1.99E-08
1070	258653.6	4084441	4.48E-10	6.48E-09	1.14E-07	1.14E-07	6.38E-08	3.00E-07	6.80E-11	9.88E-10	1.79E-08	1.79E-08	9.83E-09	4.66E-08	3.69E-11	5.34E-10	7.95E-09	7.95E-09	3.94E-09	2.04E-08
1071	258676.5	4084449	4.57E-10	6.62E-09	1.17E-07	1.17E-07	6.51E-08	3.06E-07	6.94E-11	1.01E-09	1.82E-08	1.82E-08	1.00E-08	4.76E-08	3.77E-11	5.45E-10	8.12E-09	8.12E-09	4.02E-09	2.08E-08
1072	258699.3	4084458	4.64E-10	6.72E-09	1.19E-07	1.19E-07	6.61E-08	3.11E-07	7.05E-11	1.02E-09	1.85E-08	1.85E-08	1.02E-08	4.83E-08	3.83E-11	5.54E-10	8.24E-09	8.24E-09	4.08E-09	2.11E-08
1073	258722.1	4084466	4.68E-10	6.77E-09	1.20E-07	1.20E-07	6.67E-08	3.13E-07	7.11E-11	1.03E-09	1.87E-08	1.87E-08	1.03E-08	4.87E-08	3.86E-11	5.58E-10	8.31E-09	8.31E-09	4.11E-09	2.13E-08
1074	258745	4084475	4.70E-10	6.79E-09	1.20E-07	1.20E-07	6.69E-08	3.14E-07	7.13E-11	1.03E-09	1.87E-08	1.87E-08	1.03E-08	4.89E-08	3.87E-11	5.60E-10	8.33E-09	8.33E-09	4.12E-09	2.14E-08
1075	258777.8	4084505	4.86E-10	7.02E-09	1.24E-07	1.24E-07	6.91E-08	3.25E-07	7.37E-11	1.07E-09	1.94E-08	1.94E-08	1.06E-08	5.05E-08	4.00E-11	5.79E-10	8.62E-09	8.62E-09	4.26E-09	2.21E-08
1076	258787.9	4084528	5.00E-10	7.23E-09	1.28E-07	1.28E-07	7.12E-08	3.34E-07	7.58E-11	1.10E-09	1.99E-08	1.99E-08	1.10E-08	5.20E-08	4.12E-11	5.96E-10	8.87E-09	8.87E-09	4.39E-09	2.28E-08
1077	258797.9	4084550	5.11E-10	7.39E-09	1.30E-07	1.30E-07	7.27E-08	3.42E-07	7.75E-11	1.13E-09	2.04E-08	2.04E-08	1.12E-08	5.31E-08	4.21E-11	6.09E-10	9.06E-09	9.06E-09	4.49E-09	2.33E-08
1078	258807.9	4084572	5.18E-10	7.50E-09	1.32E-07	1.32E-07	7.38E-08	3.47E-07	7.87E-11	1.14E-09	2.07E-08	2.07E-08	1.14E-08	5.39E-08	4.27E-11	6.18E-10	9.20E-09	9.20E-09	4.55E-09	2.36E-08
1079	258818	4084594	5.22E-10	7.55E-09	1.33E-07	1.33E-07	7.44E-08	3.49E-07	7.92E-11	1.15E-09	2.08E-08	2.08E-08	1.14E-08	5.43E-08	4.30E-11	6.23E-10	9.26E-09	9.26E-09	4.59E-09	2.38E-08
1080	258828	4084616	5.22E-10	7.55E-09	1.33E-07	1.33E-07	7.43E-08	3.49E-07	7.92E-11	1.15E-09	2.08E-08	2.08E-08	1.14E-08	5.43E-08	4.30E-11	6.22E-10	9.26E-09	9.26E-09	4.58E-09	2.38E-08
1081	258838	4084638	5.17E-10	7.48E-09	1.32E-07	1.32E-07	7.36E-08	3.46E-07	7.85E-11	1.14E-09	2.06E-08	2.06E-08	1.13E-08	5.38E-08	4.26E-11	6.17E-10	9.18E-09	9.18E-09	4.54E-09	2.36E-08
1082	258848.1	4084661	5.08E-10	7.35E-09	1.30E-07	1.30E-07	7.24E-08	3.40E-07	7.71E-11	1.12E-09	2.03E-08	2.03E-08	1.11E-08	5.29E-08	4.19E-11	6.06E-10	9.02E-09	9.02E-09	4.46E-09	2.31E-08
1083	258858.1	4084683	4.95E-10	7.16E-09	1.27E-07	1.27E-07	7.05E-08	3.31E-07	7.52E-11	1.09E-09	1.98E-08	1.98E-08	1.09E-08	5.15E-08	4.08E-11	5.91E-10	8.79E-09	8.79E-09	4.35E-09	2.26E-08
1084	258868.1	4084705	4.79E-10	6.92E-09	1.22E-07	1.22E-07	6.82E-08	3.20E-07	7.27E-11	1.05E-09	1.91E-08	1.91E-08	1.05E-08	4.98E-08	3.95E-11	5.71E-10	8.49E-09	8.49E-09	4.20E-09	2.18E-08
1085	258878.2	4084727	4.59E-10	6.64E-09	1.17E-07	1.17E-07	6.54E-08	3.07E-07	6.97E-11	1.01E-09	1.83E-08	1.83E-08	1.01E-08	4.78E-08	3.78E-11	5.47E-10	8.14E-09	8.14E-09	4.03E-09	2.09E-08
1086	258888.2	4084749	4.37E-10	6.32E-09	1.12E-07	1.12E-07	6.22E-08	2.92E-07	6.63E-11	9.63E-10	1.74E-08	1.74E-08	9.58E-09	4.55E-08	3.60E-11	5.21E-10	7.75E-09	7.75E-09	3.84E-09	1.99E-08
1087	258898.2	4084771	4.13E-10	5.98E-09	1.06E-07	1.06E-07	5.88E-08	2.76E-07	6.27E-11	9.10E-10	1.65E-08	1.65E-08	9.06E-09	4.30E-08	3.41E-11	4.93E-10	7.33E-09	7.33E-09	3.63E-09	1.88E-08
1088	258908.3	4084794	3.88E-10	5.62E-09	9.92E-08	9.92E-08	5.53E-08	2.60E-07	5.90E-11	8.56E-10	1.55E-08	1.55E-08	8.52E-09	4.04E-08	3.20E-11	4.63E-10	6.89E-09	6.89E-09	3.41E-09	1.77E-08
1089	258918.3	4084816	3.64E-10	5.26E-09	9.29E-08	9.29E-08	5.18E-08	2.43E-07	5.52E-11	8.01E-10	1.45E-08	1.45E-08	7.97E-09	3.78E-08	3.00E-11	4.34E-10	6.45E-09	6.45E-09	3.19E-09	1.66E-08
1090	258928.3	4084838	3.39E-10	4.91E-09	8.67E-08	8.67E-08	4.83E-08	2.27E-07	5.15E-11	7.48E-10	1.35E-08	1.35E-08	7.44E-09	3.53E-08	2.80E-11	4.04E-10	6.02E-09	6.02E-09	2.98E-09	1.55E-08
1091	258938.4	4084860	3.16E-10	4.57E-09	8.07E-08	8.07E-08	4.50E-08	2.11E-07	4.79E-11	6.96E-10	1.26E-08	1.26E-08	6.92E-09	3.29E-08	2.60E-11	3.77E-10	5.60E-09	5.60E-09	2.77E-09	1.44E-08
1092	258948.4	4084882	2.93E-10	4.24E-09	7.49E-08	7.49E-08	4.18E-08	1.96E-07	4.45E-11	6.47E-10	1.17E-08	1.17E-08	6.43E-09	3.05E-08	2.42E-11	3.50E-10	5.21E-09	5.21E-09	2.58E-09	1.34E-08
1093	258334	4084323	2.26E-10	3.27E-09	5.78E-08	5.78E-08	3.22E-08	1.51E-07	3.43E-11	4.99E-10	9.02E-09	9.02E-09	4.96E-09	2.35E-08	1.87E-11	2.70E-10	4.01E-09	4.01E-09	1.99E-09	1.03E-08
1094	258309.7	4084324	2.18E-10	3.15E-09	5.57E-08	5.57E-08	3.10E-08	1.46E-07	3.31E-11	4.80E-10	8.69E-09	8.69E-09	4.78E-09	2.27E-08	1.80E-11	2.60E-10	3.87E-09	3.87E-09	1.91E-09	9.93E-09
1095	258285.4	4084325	2.10E-10	3.03E-09	5.35E-08	5.35E-08	2.98E-08	1.40E-07	3.18E-11	4.62E-10	8.36E-09	8.36E-09	4.59E-09	2.18E-08	1.73E-11	2.50E-10	3.72E-09	3.72E-09	1.84E-09	9.54E-09
1096	258261	4084326	2.01E-10	2.91E-09	5.13E-08	5.13E-08	2.86E-08	1.34E-07	3.05E-11	4.43E-10	8.01E-09	8.01E-09	4.41E-09	2.09E-08	1.66E-11	2.40E-10	3.57E-09	3.57E-09	1.76E-09	9.15E-09
1097	258236.7	4084327	1.92E-10	2.78E-09	4.91E-08	4.91E-08	2.74E-08	1.29E-07	2.92E-11	4.23E-10	7.66E-09	7.66E-09	4.21E-09	2.00E-08	1.58E-11	2.29E-10	3.41E-09	3.41E-09	1.69E-09	8.75E-09
1098	258212.4	4084328	1.83E-10	2.65E-09	4.68E-08	4.68E-08	2.61E-08	1.23E-07	2.78E-11	4.04E-10	7.31E-09	7.31E-09	4.02E-09	1.91E-08	1.51E-11	2.19E-10	3.25E-09	3.25E-09	1.61E-09	8.35E-09
1099	258188	4084329	1.75E-10	2.52E-09	4.46E-08	4.46E-08	2.49E-08	1.17E-07	2.65E-11	3.85E-10	6.96E-09	6.96E-09	3.83E-09	1.82E-08	1.44E-11	2.08E-10	3.10E-09	3.10E-09	1.53E-09	7.95E-09
1100	258163.7	4084330	1.66E-10	2.40E-09	4.24E-08	4.24E-08	2.36E-08	1.11E-07	2.52E-11	3.65E-10	6.61E-09	6.61E-09	3.64E-09	1.73E-08	1.37E-11	1.98E-10	2.94E-09	2.94E-09	1.46E-09	7.55E-09
1101	258139.4	4084331	1.57E-10	2.27E-09	4.02E-08	4.02E-08	2.24E-08	1.05E-07	2.39E-11	3.47E-10	6.27E-09	6.27E-09	3.45E-09	1.64E-08	1.30E-11	1.88E-10	2.79E-09	2.79E-09	1.38E-09	7.16E-09
1102	258115.1	4084332	1.49E-10	2.15E-09	3.80E-08	3.80E-08	2.12E-08	9.96E-08	2.26E-11	3.28E-10	5.94E-09	5.94E-09	3.27E-09	1.55E-08	1.23E-11	1.78E-10	2.64E-09	2.64E-09	1.31E-09	6.78E-09
1103	258090.7	4084333	1.41E-10	2.04E-09	3.60E-08	3.60E-08	2.01E-08	9.42E-08	2.14E-11	3.10E-10	5.62E-09	5.62E-09	3.09E-09	1.47E-08	1.16E-11	1.68E-10	2.50E-09	2.50E-09	1.24E-09	6.42E-09
1104	258066.4	4084334	1.33E-10	1.93E-09	3.40E-08	3.40E-08	1.90E-08	8.91E-08	2.02E-11	2.94E-10	5.31E-09	5.31E-09	2.92E-09	1.39E-08	1.10E-11	1.59E-10	2.36E-09	2.36E-09	1.17E-09	6.07E-09
1105	258042.1	4084335	1.26E-10	1.82E-09	3.22E-08	3.22E-08	1.79E-08	8.42E-08	1.91E-11	2.77E-10	5.02E-09	5.02E-09	2.76E-09	1.31E-08	1.04E-11	1.50E-10	2.23E-09	2.23E-09	1.11E-09	5.73E-09
1106	258017.7	4084336	1.19E-10	1.72E-09	3.04E-08	3.04E-08	1.69E-08	7.96E-08	1.81E-11	2.62E-10	4.75E-09	4.75E-09	2.61E-09	1.24E-08	9.81E-12	1.42E-10	2.11E-09	2.11E-09	1.05E-09	5.42E-09
1107	257993.4	4084337	1.13E-10	1.63E-09	2.87E-08	2.87E-08	1.60E-08	7.53E-08	1.71E-11	2.48E-10	4.49E-09	4.49E-09	2.47E-09	1.17E-08	9.28E-12	1.34E-10	2.00E-09	2.00E-09	9.89E-10	5.13E-09
1108	257969.1	4084338	1.07E-10	1.54E-09	2.72E-08	2.72E-08	1.52E-08	7.12E-08	1.62E-11	2.35E-10	4.25E-09	4.25E-09	2.34E-09	1.11E-08	8.78E-12	1.27E-10	1.89E-09	1.89E-09	9.36E-10	4.85E-09
1109	257944.7	4084339	1.01E-10	1.46E-09	2.58E-08	2.58E-08	1.44E-08	6.75E-08	1.53E-11	2.22E-10	4.02E-09	4.02E-09	2.21E-09	1.05E-08	8.32E-12	1.20E-10	1.79E-09	1.79E-09	8.86E-10	4.59E-09
1110	257920.4	4084340	9.56E-11	1.38E-09	2.44E-08	2.44E-08	1.36E-08	6.40E-08	1.45E-11	2.11E-10	3.81E-09	3.81E-09	2.10E-09	9.95E-09	7.88E-12	1.14E-10	1.70E-09	1.70E-09	8.40E-10	4.36E-09
1111	257896.1	4084341	9.08E-11	1.31E-09	2.32E-08	2.32E-08	1.29E-08	6.07E-08	1.38E-11	2.00E-10	3.62E-09	3.62E-09	1.99E-09	9.44E-09	7.48E-12	1.08E-10	1.61E-09	1.61E-09	7.97E-10	4.13E-09
1112	257871.7	4084342	8.63E-11	1.25E-09	2.20E-08	2.20E-08	1.23E-08	5.77E-08	1.31E-11	1.90E-10	3.44E-09	3.44E-09	1.89E-09	8.97E-09	7.11E-12	1.03E-10	1.53E-09	1.53E-09	7.57E-10	3.93E-09
1113	257847.4	4084343	8.20E-11	1.19E-09	2.09E-08	2.09E-08	1.17E-08	5.48E-08	1.24E-11	1.81E-10	3.27E-09	3.27E-09	1.80E-09	8.53E-09	6.76E-12	9.78E-11	1.46E-09	1.46E-09	7.20E-10	3.74E-09
1114	257823.1	4084344	7.81E-11	1.13E-09	1.99E-08	1.99E-08	1.11E-08	5.22E-08	1.19E-11	1.72E-10	3.11E-09	3.11E-09	1.71E-09	8.13E-09	6.44E-12	9.31E-11	1.39E-09	1.39E-09	6.86E-10	3.56E-09
1115	257798.7	4084345	7.45E-11	1.08E-09	1.90E-08	1.90E-08	1.06E-08	4.98E-08	1.13E-11	1.64E-10	2.97E-09	2.97E-09	1.63E-09	7.75E-09	6.14E-12	8.88E-11	1.32E-09	1.32E-09	6.54E-10	3.39E-09
1116	257774.4	4084346	7.11E-11	1.03E-09	1.82E-08	1.82E-08	1.01E-08	4.75E-08	1.08E-11	1.57E-10	2.83E-09	2.83E-09	1.56E-09	7.40E-09	5.86E-12	8.48E-11	1.26E-09	1.26E-09	6.24E-10	3.24E-09
1117	257750.1	4084347	6.80E-11	9.83E-10	1.74E-08	1.74E-08	9.68E-09	4.55E-08	1.03E-11	1.50E-10	2.71E-09	2.71E-09	1.49E-09	7.07E-09	5.60E-12	8.11E-11	1.21E-09	1.21E-09	5.97E-10	3.10E-09
1118	257725.7	4084348	6.51E-11	9.42E-10	1.66E-08	1.66E-08	9.27E-09	4.36E-08	9.89E-12	1.44E-10	2.60E-09	2.60E-09	1.43E-09	6.78E-09	5.37E-12	7.77E-11	1.16E-09	1.16E-09	5.72E-10	2.97E-09
1119	257701.4	4084349	6.25E-11	9.05E-10	1.60E-08	1.60E-08	8.91E-09	4.18E-08	9.49E-12	1.38E-10	2.49E-09	2.49E-09	1.37E-09	6.51E-09	5.16E-12	7.46E-11	1.11E-09	1.11E-09	5.49E-10	2.85E-09
1120	257677.1	4084350	6.02E-11	8.70E-10	1.54E-08	1.54E-08	8.57E-09	4.02E-08	9.13E-12	1.33E-10	2.40E-09	2.40E-09	1.32E-09	6.26E-09	4.96E-12	7.17E-11	1.07E-09	1.07E-09	5.28E-10	2.74E-09
1121	257652.7	4084351	5.80E-11	8.38E-10	1.48E-08	1.48E-08	8.25E-09	3.88E-08	8.80E-12	1.28E-10	2.31E-09	2.31E-09	1.27E-09	6.03E-09	4.78E-12	6.91E-11	1.03E-09	1.03E-09	5.09E-10	2.64E-09
1122	257628.4	4084352	5.60E-11	8.10E-10	1.43E-08	1.43E-08	7.97E-09	3.74E-08	8.50E-12	1.23E-10	2.23E-09	2.23E-09	1.23E-09	5.82E-09	4.61E-12	6.67E-11	9.93E-10	9.93E-10	4.92E-10	2.55E-09
1123	257604.1	4084353	5.41E-11	7.83E-10	1.38E-08	1.38E-08	7.71E-09	3.62E-08	8.22E-12	1.19E-10	2.16E-09	2.16E-09	1.19E-09	5.63E-09	4.46E-12	6.46E-11	9.61E-10	9.61E-10	4.76E-10	2.47E-09
1124	257579.8	4084354	5.25E-11	7.59E-10	1.34E-08	1.34E-08	7.47E-09	3.51E-08	7.96E-12	1.16E-10	2.09E-09	2.09E-09	1.15E-09	5.46E-09	4.32E-12	6.25E-11	9.31E-10	9.31E-10	4.61E-10	2.39E-09
1125	257555.4	4084355	5.09E-11	7.36E-10	1.30E-08	1.30E-08	7.24E-09	3.40E-08	7.72E-12	1.12E-10	2.03E-09	2.03E-09	1.12E-09	5.29E-09	4.19E-12	6.06E-11	9.03E-10	9.03E-10	4.47E-10	2.32E-09
1126	257531.1	4084356	4.94E-11	7.15E-10	1.26E-08	1.26E-08	7.04E-09	3.30E-08	7.50E-12	1.09E-10	1.97E-09	1.97E-09	1.08E-09	5.14E-09	4.07E-12	5.89E-11	8.77E-10	8.77E-10	4.34E-10	2.25E-09
1127	258351.9	4084231	1.64E-10	2.38E-09	4.20E-08	4.20E-08	2.34E-08	1.10E-07	2.50E-11	3.62E-10	6.56E-09	6.56E-09	3.61E-09	1.71E-08	1.36E-11	1.96E-10	2.92E-09	2.92E-09	1.44E-09	7.49E-09
1128	258373.9	4084239	1.76E-10	2.54E-09	4.49E-08	4.49E-08	2.50E-08	1.18E-07	2.67E-11	3.87E-10	7.01E-09	7.01E-09	3.86E-09	1.83E-08	1.45E-11	2.10E-10	3.12E-09	3.12E-09	1.54E-09	8.01E-09
1129	258395.9	4084247	1.88E-10	2.71E-09	4.79E-08	4.79E-08	2.67E-08	1.26E-07	2.85E-11	4.14E-10	7.49E-09	7.49E-09	4.12E-09	1.95E-08	1.55E-11	2.24E-10	3.33E-09	3.33E-09	1.65E-09	8.55E-09
1130	258417.9	4084255	2.00E-10	2.89E-09	5.11E-08	5.11E-08	2.85E-08	1.34E-07	3.03E-11	4.41E-10	7.97E-09	7.97E-09	4.38E-09	2.08E-08	1.65E-11	2.38E-10	3.55E-09	3.55E-09	1.76E-09	9.11E-09
1131	258439.9	4084263	2.13E-10	3.07E-09	5.43E-08	5.43E-08	3.03E-08	1.42E-07	3.23E-11	4.68E-10	8.48E-09	8.48E-09	4.66E-09	2.21E-08	1.75E-11	2.53E-10	3.77E-09	3.77E-09	1.87E-09	9.68E-09
1132	258461.9	4084272	2.25E-10	3.26E-09	5.76E-08	5.76E-08	3.21E-08	1.51E-07	3.42E-11	4.96E-10	8.99E-09	8.99E-09	4.94E-09	2.34E-08	1.86E-11	2.69E-10	4.00E-09	4.00E-09	1.98E-09	1.03E-08
1133	258483.9	4084280	2.38E-10	3.45E-09	6.08E-08	6.08E-08	3.39E-08	1.59E-07	3.62E-11	5.25E-10	9.50E-09	9.50E-09	5.22E-09	2.48E-08	1.96E-11	2.84E-10	4.23E-09	4.23E-09	2.09E-09	1.09E-08
1134	258505.9	4084288	2.51E-10	3.63E-09	6.42E-08	6.42E-08	3.58E-08	1.68E-07	3.81E-11	5.54E-10	1.00E-08	1.00E-08	5.51E-09	2.61E-08	2.07E-11	3.00E-10	4.46E-09	4.46E-09	2.21E-09	1.14E-08
1135	258527.9	4084296	2.64E-10	3.82E-09	6.75E-08	6.75E-08	3.76E-08	1.77E-07	4.01E-11	5.82E-10	1.05E-08	1.05E-08	5.79E-09	2.75E-08	2.18E-11	3.15E-10	4.69E-09	4.69E-09	2.32E-09	1.20E-08
1136	258549.9	4084304	2.77E-10	4.01E-09	7.08E-08	7.08E-08	3.95E-08	1.85E-07	4.21E-11	6.11E-10	1.11E-08	1.11E-08	6.08E-09	2.88E-08	2.28E-11	3.30E-10	4.92E-09	4.92E-09	2.43E-09	1.26E-08
1137	258571.9	4084312	2.90E-10	4.19E-09	7.40E-08	7.40E-08	4.13E-08	1.94E-07	4.40E-11	6.38E-10	1.16E-08	1.16E-08	6.35E-09	3.01E-08	2.39E-11	3.45E-10	5.14E-09	5.14E-09	2.54E-09	1.32E-08
1138	258594	4084320	3.02E-10	4.37E-09	7.72E-08	7.72E-08	4.30E-08	2.02E-07	4.59E-11	6.66E-10	1.20E-08	1.20E-08	6.62E-09	3.14E-08	2.49E-11	3.60E-10	5.36E-09	5.36E-09	2.65E-09	1.38E-08
1139	258616	4084329	3.14E-10	4.54E-09	8.02E-08	8.02E-08	4.47E-08	2.10E-07	4.77E-11	6.92E-10	1.25E-08	1.25E-08	6.88E-09	3.27E-08	2.59E-11	3.74E-10	5.57E-09	5.57E-09	2.76E-09	1.43E-08
1140	258638	4084337	3.25E-10	4.71E-09	8.31E-08	8.31E-08	4.63E-08	2.18E-07	4.94E-11	7.17E-10	1.30E-08	1.30E-08	7.13E-09	3.38E-08	2.68E-11	3.88E-10	5.77E-09	5.77E-09	2.86E-09	1.48E-08
1141	258660	4084345	3.36E-10	4.86E-09	8.58E-08	8.58E-08	4.78E-08	2.25E-07	5.10E-11	7.40E-10	1.34E-08	1.34E-08	7.37E-09	3.50E-08	2.77E-11	4.01E-10	5.96E-09	5.96E-09	2.95E-09	1.53E-08
1142	258682	4084353	3.46E-10	5.00E-09	8.83E-08	8.83E-08	4.93E-08	2.31E-07	5.25E-11	7.62E-10	1.38E-08	1.38E-08	7.58E-09	3.60E-08	2.85E-11	4.12E-10	6.14E-09	6.14E-09	3.04E-09	1.58E-08
1143	258704	4084361	3.55E-10	5.13E-09	9.06E-08	9.06E-08	5.05E-08	2.37E-07	5.39E-11	7.82E-10	1.42E-08	1.42E-08	7.78E-09	3.69E-08	2.93E-11	4.23E-10	6.30E-09	6.30E-09	3.12E-09	1.62E-08
1144	258726	4084369	3.63E-10	5.25E-09	9.26E-08	9.26E-08	5.16E-08	2.43E-07	5.50E-11	7.99E-10	1.45E-08	1.45E-08	7.95E-09	3.77E-08	2.99E-11	4.32E-10	6.44E-09	6.44E-09	3.19E-09	1.65E-08
1145	258748	4084377	3.69E-10	5.34E-09	9.43E-08	9.43E-08	5.26E-08	2.47E-07	5.60E-11	8.14E-10	1.47E-08	1.47E-08	8.10E-09	3.84E-08	3.04E-11	4.40E-10	6.55E-09	6.55E-09	3.24E-09	1.68E-08
1146	258770	4084386	3.74E-10	5.41E-09	9.56E-08	9.56E-08	5.33E-08	2.50E-07	5.68E-11	8.25E-10	1.49E-08	1.49E-08	8.21E-09	3.89E-08	3.09E-11	4.46E-10	6.64E-09	6.64E-09	3.29E-09	1.70E-08
1147	258792	4084394	3.78E-10	5.46E-09	9.65E-08	9.65E-08	5.38E-08	2.53E-07	5.73E-11	8.33E-10	1.51E-08	1.51E-08	8.28E-09	3.93E-08	3.11E-11	4.50E-10	6.70E-09	6.70E-09	3.32E-09	1.72E-08
1148	258814	4084402	3.79E-10	5.48E-09	9.68E-08	9.68E-08	5.39E-08	2.53E-07	5.75E-11	8.35E-10	1.51E-08	1.51E-08	8.31E-09	3.94E-08	3.12E-11	4.52E-10	6.72E-09	6.72E-09	3.33E-09	1.73E-08
1149	258845.6	4084431	3.91E-10	5.66E-09	9.99E-08	9.99E-08	5.57E-08	2.62E-07	5.94E-11	8.62E-10	1.56E-08	1.56E-08	8.58E-09	4.07E-08	3.22E-11	4.66E-10	6.94E-09	6.94E-09	3.44E-09	1.78E-08
1150	258855.3	4084453	4.02E-10	5.81E-09	1.03E-07	1.03E-07	5.72E-08	2.69E-07	6.10E-11	8.85E-10	1.60E-08	1.60E-08	8.81E-09	4.18E-08	3.31E-11	4.79E-10	7.13E-09	7.13E-09	3.53E-09	1.83E-08
1151	258865	4084474	4.11E-10	5.94E-09	1.05E-07	1.05E-07	5.85E-08	2.75E-07	6.23E-11	9.05E-10	1.64E-08	1.64E-08	9.00E-09	4.27E-08	3.38E-11	4.90E-10	7.29E-09	7.29E-09	3.61E-09	1.87E-08
1152	258874.6	4084496	4.17E-10	6.04E-09	1.07E-07	1.07E-07	5.94E-08	2.79E-07	6.33E-11	9.19E-10	1.66E-08	1.66E-08	9.15E-09	4.34E-08	3.44E-11	4.97E-10	7.40E-09	7.40E-09	3.66E-09	1.90E-08
1153	258884.3	4084517	4.22E-10	6.10E-09	1.08E-07	1.08E-07	6.00E-08	2.82E-07	6.40E-11	9.29E-10	1.68E-08	1.68E-08	9.24E-09	4.39E-08	3.48E-11	5.03E-10	7.48E-09	7.48E-09	3.70E-09	1.92E-08
1154	258894	4084538	4.24E-10	6.13E-09	1.08E-07	1.08E-07	6.03E-08	2.83E-07	6.43E-11	9.33E-10	1.69E-08	1.69E-08	9.29E-09	4.41E-08	3.49E-11	5.05E-10	7.52E-09	7.52E-09	3.72E-09	1.93E-08
1155	258903.7	4084560	4.23E-10	6.12E-09	1.08E-07	1.08E-07	6.02E-08	2.83E-07	6.42E-11	9.32E-10	1.69E-08	1.69E-08	9.27E-09	4.40E-08	3.49E-11	5.04E-10	7.50E-09	7.50E-09	3.71E-09	1.93E-08
1156	258913.3	4084581	4.20E-10	6.07E-09	1.07E-07	1.07E-07	5.98E-08	2.81E-07	6.37E-11	9.25E-10	1.67E-08	1.67E-08	9.20E-09	4.37E-08	3.46E-11	5.01E-10	7.45E-09	7.45E-09	3.69E-09	1.91E-08
1157	258923	4084602	4.14E-10	5.99E-09	1.06E-07	1.06E-07	5.90E-08	2.77E-07	6.29E-11	9.13E-10	1.65E-08	1.65E-08	9.08E-09	4.31E-08	3.41E-11	4.94E-10	7.35E-09	7.35E-09	3.64E-09	1.89E-08
1158	258932.7	4084624	4.06E-10	5.87E-09	1.04E-07	1.04E-07	5.78E-08	2.72E-07	6.16E-11	8.95E-10	1.62E-08	1.62E-08	8.90E-09	4.22E-08	3.35E-11	4.84E-10	7.20E-09	7.20E-09	3.57E-09	1.85E-08
1159	258942.3	4084645	3.96E-10	5.72E-09	1.01E-07	1.01E-07	5.63E-08	2.65E-07	6.01E-11	8.72E-10	1.58E-08	1.58E-08	8.68E-09	4.12E-08	3.26E-11	4.72E-10	7.02E-09	7.02E-09	3.48E-09	1.80E-08
1160	258952	4084667	3.83E-10	5.54E-09	9.79E-08	9.79E-08	5.46E-08	2.56E-07	5.82E-11	8.45E-10	1.53E-08	1.53E-08	8.40E-09	3.99E-08	3.16E-11	4.57E-10	6.80E-09	6.80E-09	3.37E-09	1.75E-08
1161	258961.7	4084688	3.69E-10	5.34E-09	9.43E-08	9.43E-08	5.26E-08	2.47E-07	5.60E-11	8.14E-10	1.47E-08	1.47E-08	8.09E-09	3.84E-08	3.04E-11	4.40E-10	6.55E-09	6.55E-09	3.24E-09	1.68E-08
1162	258971.4	4084709	3.54E-10	5.12E-09	9.04E-08	9.04E-08	5.04E-08	2.37E-07	5.37E-11	7.80E-10	1.41E-08	1.41E-08	7.76E-09	3.68E-08	2.92E-11	4.22E-10	6.28E-09	6.28E-09	3.11E-09	1.61E-08
1163	258981	4084731	3.37E-10	4.88E-09	8.62E-08	8.62E-08	4.80E-08	2.26E-07	5.12E-11	7.43E-10	1.35E-08	1.35E-08	7.40E-09	3.51E-08	2.78E-11	4.02E-10	5.99E-09	5.99E-09	2.96E-09	1.54E-08
1164	258990.7	4084752	3.20E-10	4.63E-09	8.18E-08	8.18E-08	4.56E-08	2.14E-07	4.86E-11	7.06E-10	1.28E-08	1.28E-08	7.02E-09	3.33E-08	2.64E-11	3.82E-10	5.68E-09	5.68E-09	2.81E-09	1.46E-08
1165	259000.4	4084773	3.03E-10	4.38E-09	7.74E-08	7.74E-08	4.31E-08	2.03E-07	4.60E-11	6.67E-10	1.21E-08	1.21E-08	6.64E-09	3.15E-08	2.50E-11	3.61E-10	5.37E-09	5.37E-09	2.66E-09	1.38E-08
1166	259010	4084795	2.86E-10	4.13E-09	7.30E-08	7.30E-08	4.07E-08	1.91E-07	4.34E-11	6.30E-10	1.14E-08	1.14E-08	6.27E-09	2.97E-08	2.36E-11	3.41E-10	5.07E-09	5.07E-09	2.51E-09	1.30E-08
1167	259019.7	4084816	2.69E-10	3.89E-09	6.87E-08	6.87E-08	3.83E-08	1.80E-07	4.08E-11	5.93E-10	1.07E-08	1.07E-08	5.90E-09	2.80E-08	2.22E-11	3.21E-10	4.77E-09	4.77E-09	2.36E-09	1.23E-08
1168	259029.4	4084838	2.53E-10	3.66E-09	6.46E-08	6.46E-08	3.60E-08	1.69E-07	3.84E-11	5.58E-10	1.01E-08	1.01E-08	5.55E-09	2.63E-08	2.09E-11	3.02E-10	4.49E-09	4.49E-09	2.22E-09	1.15E-08
1169	259039	4084859	2.38E-10	3.44E-09	6.07E-08	6.07E-08	3.39E-08	1.59E-07	3.61E-11	5.24E-10	9.48E-09	9.48E-09	5.21E-09	2.47E-08	1.96E-11	2.83E-10	4.22E-09	4.22E-09	2.09E-09	1.08E-08
1170	259048.7	4084880	2.23E-10	3.23E-09	5.70E-08	5.70E-08	3.18E-08	1.49E-07	3.39E-11	4.92E-10	8.90E-09	8.90E-09	4.89E-09	2.32E-08	1.84E-11	2.66E-10	3.96E-09	3.96E-09	1.96E-09	1.02E-08
1171	258329.9	4084223	1.54E-10	2.22E-09	3.92E-08	3.92E-08	2.19E-08	1.03E-07	2.33E-11	3.38E-10	6.12E-09	6.12E-09	3.37E-09	1.60E-08	1.27E-11	1.83E-10	2.72E-09	2.72E-09	1.35E-09	6.99E-09
1172	258305.6	4084224	1.47E-10	2.13E-09	3.76E-08	3.76E-08	2.10E-08	9.85E-08	2.24E-11	3.25E-10	5.88E-09	5.88E-09	3.23E-09	1.53E-08	1.21E-11	1.76E-10	2.61E-09	2.61E-09	1.29E-09	6.71E-09
1173	258281.3	4084225	1.41E-10	2.04E-09	3.61E-08	3.61E-08	2.01E-08	9.44E-08	2.14E-11	3.11E-10	5.63E-09	5.63E-09	3.10E-09	1.47E-08	1.16E-11	1.68E-10	2.51E-09	2.51E-09	1.24E-09	6.43E-09
1174	258256.9	4084226	1.35E-10	1.95E-09	3.45E-08	3.45E-08	1.92E-08	9.04E-08	2.05E-11	2.98E-10	5.39E-09	5.39E-09	2.96E-09	1.41E-08	1.11E-11	1.61E-10	2.40E-09	2.40E-09	1.19E-09	6.15E-09
1175	258232.6	4084227	1.29E-10	1.87E-09	3.30E-08	3.30E-08	1.84E-08	8.63E-08	1.96E-11	2.84E-10	5.15E-09	5.15E-09	2.83E-09	1.34E-08	1.06E-11	1.54E-10	2.29E-09	2.29E-09	1.13E-09	5.88E-09
1176	258208.3	4084228	1.23E-10	1.78E-09	3.15E-08	3.15E-08	1.75E-08	8.23E-08	1.87E-11	2.71E-10	4.91E-09	4.91E-09	2.70E-09	1.28E-08	1.02E-11	1.47E-10	2.18E-09	2.18E-09	1.08E-09	5.61E-09

1177	258183.9	4084229	1.17E-10	1.70E-09	3.00E-08	3.00E-08	1.67E-08	7.84E-08	1.78E-11	2.58E-10	4.68E-09	4.68E-09	2.57E-09	1.22E-08	9.67E-12	1.40E-10	2.08E-09	2.08E-09	1.03E-09	5.34E-09
1178	258159.6	4084230	1.12E-10	1.61E-09	2.85E-08	2.85E-08	1.59E-08	7.46E-08	1.69E-11	2.46E-10	4.45E-09	4.45E-09	2.45E-09	1.16E-08	9.20E-12	1.33E-10	1.98E-09	1.98E-09	9.80E-10	5.08E-09
1179	258135.3	4084231	1.06E-10	1.53E-09	2.71E-08	2.71E-08	1.51E-08	7.09E-08	1.61E-11	2.34E-10	4.23E-09	4.23E-09	2.33E-09	1.10E-08	8.75E-12	1.26E-10	1.88E-09	1.88E-09	9.32E-10	4.83E-09
1180	258110.9	4084232	1.01E-10	1.46E-09	2.58E-08	2.58E-08	1.44E-08	6.74E-08	1.53E-11	2.22E-10	4.02E-09	4.02E-09	2.21E-09	1.05E-08	8.31E-12	1.20E-10	1.79E-09	1.79E-09	8.86E-10	4.59E-09
1181	258086.6	4084233	9.59E-11	1.39E-09	2.45E-08	2.45E-08	1.36E-08	6.41E-08	1.45E-11	2.11E-10	3.82E-09	3.82E-09	2.10E-09	9.97E-09	7.90E-12	1.14E-10	1.70E-09	1.70E-09	8.42E-10	4.37E-09
1182	258062.3	4084234	9.11E-11	1.32E-09	2.33E-08	2.33E-08	1.30E-08	6.09E-08	1.38E-11	2.01E-10	3.63E-09	3.63E-09	2.00E-09	9.48E-09	7.51E-12	1.09E-10	1.62E-09	1.62E-09	8.00E-10	4.15E-09
1183	258037.9	4084235	8.67E-11	1.25E-09	2.21E-08	2.21E-08	1.23E-08	5.80E-08	1.32E-11	1.91E-10	3.46E-09	3.46E-09	1.90E-09	9.02E-09	7.14E-12	1.03E-10	1.54E-09	1.54E-09	7.61E-10	3.95E-09
1184	258013.6	4084236	8.25E-11	1.19E-09	2.11E-08	2.11E-08	1.17E-08	5.52E-08	1.25E-11	1.82E-10	3.29E-09	3.29E-09	1.81E-09	8.58E-09	6.80E-12	9.83E-11	1.46E-09	1.46E-09	7.24E-10	3.76E-09
1185	257989.3	4084237	7.86E-11	1.14E-09	2.01E-08	2.01E-08	1.12E-08	5.26E-08	1.19E-11	1.73E-10	3.13E-09	3.13E-09	1.72E-09	8.18E-09	6.48E-12	9.37E-11	1.39E-09	1.39E-09	6.90E-10	3.58E-09
1186	257965	4084238	7.50E-11	1.08E-09	1.92E-08	1.92E-08	1.07E-08	5.01E-08	1.14E-11	1.65E-10	2.99E-09	2.99E-09	1.64E-09	7.80E-09	6.18E-12	8.94E-11	1.33E-09	1.33E-09	6.58E-10	3.41E-09
1187	257940.6	4084239	7.16E-11	1.04E-09	1.83E-08	1.83E-08	1.02E-08	4.79E-08	1.09E-11	1.58E-10	2.85E-09	2.85E-09	1.57E-09	7.45E-09	5.90E-12	8.53E-11	1.27E-09	1.27E-09	6.29E-10	3.26E-09
1188	257916.3	4084240	6.84E-11	9.90E-10	1.75E-08	1.75E-08	9.75E-09	4.58E-08	1.04E-11	1.51E-10	2.73E-09	2.73E-09	1.50E-09	7.12E-09	5.64E-12	8.16E-11	1.21E-09	1.21E-09	6.01E-10	3.12E-09
1189	257892	4084241	6.55E-11	9.48E-10	1.67E-08	1.67E-08	9.33E-09	4.38E-08	9.95E-12	1.44E-10	2.61E-09	2.61E-09	1.44E-09	6.82E-09	5.40E-12	7.81E-11	1.16E-09	1.16E-09	5.76E-10	2.98E-09
1190	257867.6	4084242	6.28E-11	9.09E-10	1.60E-08	1.60E-08	8.95E-09	4.20E-08	9.54E-12	1.38E-10	2.51E-09	2.51E-09	1.38E-09	6.54E-09	5.18E-12	7.49E-11	1.11E-09	1.11E-09	5.52E-10	2.86E-09
1191	257843.3	4084243	6.03E-11	8.73E-10	1.54E-08	1.54E-08	8.59E-09	4.03E-08	9.16E-12	1.33E-10	2.41E-09	2.41E-09	1.32E-09	6.28E-09	4.97E-12	7.19E-11	1.07E-09	1.07E-09	5.30E-10	2.75E-09
1192	257819	4084244	5.81E-11	8.40E-10	1.48E-08	1.48E-08	8.27E-09	3.88E-08	8.81E-12	1.28E-10	2.32E-09	2.32E-09	1.27E-09	6.04E-09	4.79E-12	6.92E-11	1.03E-09	1.03E-09	5.10E-10	2.64E-09
1193	257794.6	4084245	5.59E-11	8.09E-10	1.43E-08	1.43E-08	7.96E-09	3.74E-08	8.49E-12	1.23E-10	2.23E-09	2.23E-09	1.23E-09	5.82E-09	4.61E-12	6.67E-11	9.92E-10	9.92E-10	4.91E-10	2.55E-09
1194	257770.3	4084246	5.39E-11	7.80E-10	1.38E-08	1.38E-08	7.68E-09	3.61E-08	8.19E-12	1.19E-10	2.15E-09	2.15E-09	1.18E-09	5.61E-09	4.45E-12	6.43E-11	9.57E-10	9.57E-10	4.74E-10	2.46E-09
1195	257746	4084247	5.21E-11	7.53E-10	1.33E-08	1.33E-08	7.42E-09	3.48E-08	7.90E-12	1.15E-10	2.08E-09	2.08E-09	1.14E-09	5.42E-09	4.29E-12	6.21E-11	9.24E-10	9.24E-10	4.57E-10	2.37E-09
1196	257721.6	4084248	5.03E-11	7.28E-10	1.29E-08	1.29E-08	7.17E-09	3.37E-08	7.64E-12	1.11E-10	2.01E-09	2.01E-09	1.10E-09	5.24E-09	4.15E-12	6.00E-11	8.93E-10	8.93E-10	4.42E-10	2.29E-09
1197	257697.3	4084249	4.87E-11	7.04E-10	1.24E-08	1.24E-08	6.93E-09	3.26E-08	7.39E-12	1.07E-10	1.94E-09	1.94E-09	1.07E-09	5.07E-09	4.01E-12	5.81E-11	8.64E-10	8.64E-10	4.28E-10	2.22E-09
1198	257673	4084250	4.72E-11	6.83E-10	1.21E-08	1.21E-08	6.72E-09	3.16E-08	7.16E-12	1.04E-10	1.88E-09	1.88E-09	1.03E-09	4.91E-09	3.89E-12	5.63E-11	8.37E-10	8.37E-10	4.14E-10	2.15E-09
1199	257648.6	4084251	4.57E-11	6.61E-10	1.17E-08	1.17E-08	6.51E-09	3.06E-08	6.94E-12	1.01E-10	1.82E-09	1.82E-09	1.00E-09	4.76E-09	3.77E-12	5.45E-11	8.11E-10	8.11E-10	4.02E-10	2.08E-09
1200	257624.3	4084252	4.44E-11	6.42E-10	1.13E-08	1.13E-08	6.32E-09	2.97E-08	6.74E-12	9.78E-11	1.77E-09	1.77E-09	9.73E-10	4.62E-09	3.66E-12	5.29E-11	7.88E-10	7.88E-10	3.90E-10	2.02E-09
1201	257600	4084253	4.31E-11	6.23E-10	1.10E-08	1.10E-08	6.13E-09	2.88E-08	6.54E-12	9.49E-11	1.72E-09	1.72E-09	9.45E-10	4.48E-09	3.55E-12	5.14E-11	7.64E-10	7.64E-10	3.78E-10	1.96E-09
1202	257575.6	4084254	4.19E-11	6.06E-10	1.07E-08	1.07E-08	5.96E-09	2.80E-08	6.35E-12	9.23E-11	1.67E-09	1.67E-09	9.18E-10	4.36E-09	3.45E-12	4.99E-11	7.43E-10	7.43E-10	3.68E-10	1.91E-09
1203	257551.3	4084255	4.07E-11	5.89E-10	1.04E-08	1.04E-08	5.80E-09	2.72E-08	6.18E-12	8.97E-11	1.62E-09	1.62E-09	8.93E-10	4.24E-09	3.36E-12	4.86E-11	7.23E-10	7.23E-10	3.58E-10	1.86E-09
1204	257527	4084256	3.96E-11	5.73E-10	1.01E-08	1.01E-08	5.65E-09	2.65E-08	6.02E-12	8.74E-11	1.58E-09	1.58E-09	8.69E-10	4.12E-09	3.27E-12	4.73E-11	7.03E-10	7.03E-10	3.48E-10	1.81E-09
1205	258344.2	4084031	8.40E-11	1.22E-09	2.15E-08	2.15E-08	1.20E-08	5.62E-08	1.28E-11	1.85E-10	3.35E-09	3.35E-09	1.84E-09	8.74E-09	6.93E-12	1.00E-10	1.49E-09	1.49E-09	7.38E-10	3.83E-09
1206	258366.6	4084039	8.95E-11	1.29E-09	2.29E-08	2.29E-08	1.27E-08	5.98E-08	1.36E-11	1.97E-10	3.57E-09	3.57E-09	1.96E-09	9.31E-09	7.38E-12	1.07E-10	1.59E-09	1.59E-09	7.86E-10	4.08E-09
1207	258389	4084048	9.53E-11	1.38E-09	2.43E-08	2.43E-08	1.36E-08	6.37E-08	1.45E-11	2.10E-10	3.80E-09	3.80E-09	2.09E-09	9.92E-09	7.86E-12	1.14E-10	1.69E-09	1.69E-09	8.37E-10	4.34E-09
1208	258411.5	4084056	1.02E-10	1.47E-09	2.59E-08	2.59E-08	1.45E-08	6.79E-08	1.54E-11	2.24E-10	4.05E-09	4.05E-09	2.23E-09	1.06E-08	8.37E-12	1.21E-10	1.80E-09	1.80E-09	8.92E-10	4.62E-09
1209	258433.9	4084064	1.08E-10	1.56E-09	2.76E-08	2.76E-08	1.54E-08	7.23E-08	1.64E-11	2.38E-10	4.31E-09	4.31E-09	2.37E-09	1.13E-08	8.91E-12	1.29E-10	1.92E-09	1.92E-09	9.50E-10	4.92E-09
1210	258456.3	4084073	1.15E-10	1.66E-09	2.94E-08	2.94E-08	1.64E-08	7.69E-08	1.75E-11	2.54E-10	4.59E-09	4.59E-09	2.52E-09	1.20E-08	9.49E-12	1.37E-10	2.04E-09	2.04E-09	1.01E-09	5.24E-09
1211	258478.8	4084081	1.22E-10	1.77E-09	3.12E-08	3.12E-08	1.74E-08	8.18E-08	1.86E-11	2.70E-10	4.88E-09	4.88E-09	2.68E-09	1.27E-08	1.01E-11	1.46E-10	2.17E-09	2.17E-09	1.07E-09	5.57E-09
1212	258501.2	4084089	1.30E-10	1.88E-09	3.32E-08	3.32E-08	1.85E-08	8.68E-08	1.97E-11	2.86E-10	5.18E-09	5.18E-09	2.85E-09	1.35E-08	1.07E-11	1.55E-10	2.30E-09	2.30E-09	1.14E-09	5.91E-09
1213	258523.6	4084098	1.38E-10	1.99E-09	3.52E-08	3.52E-08	1.96E-08	9.21E-08	2.09E-11	3.03E-10	5.49E-09	5.49E-09	3.02E-09	1.43E-08	1.13E-11	1.64E-10	2.44E-09	2.44E-09	1.21E-09	6.27E-09
1214	258546.1	4084106	1.46E-10	2.11E-09	3.72E-08	3.72E-08	2.07E-08	9.74E-08	2.21E-11	3.21E-10	5.81E-09	5.81E-09	3.19E-09	1.52E-08	1.20E-11	1.74E-10	2.59E-09	2.59E-09	1.28E-09	6.64E-09
1215	258568.5	4084114	1.54E-10	2.23E-09	3.93E-08	3.93E-08	2.19E-08	1.03E-07	2.34E-11	3.39E-10	6.14E-09	6.14E-09	3.37E-09	1.60E-08	1.27E-11	1.83E-10	2.73E-09	2.73E-09	1.35E-09	7.01E-09
1216	258590.9	4084123	1.62E-10	2.35E-09	4.14E-08	4.14E-08	2.31E-08	1.08E-07	2.46E-11	3.57E-10	6.47E-09	6.47E-09	3.56E-09	1.69E-08	1.34E-11	1.93E-10	2.88E-09	2.88E-09	1.42E-09	7.39E-09
1217	258613.4	4084131	1.71E-10	2.47E-09	4.36E-08	4.36E-08	2.43E-08	1.14E-07	2.59E-11	3.76E-10	6.80E-09	6.80E-09	3.74E-09	1.77E-08	1.41E-11	2.03E-10	3.03E-09	3.03E-09	1.50E-09	7.77E-09
1218	258635.8	4084139	1.79E-10	2.59E-09	4.57E-08	4.57E-08	2.55E-08	1.20E-07	2.72E-11	3.94E-10	7.14E-09	7.14E-09	3.92E-09	1.86E-08	1.47E-11	2.13E-10	3.17E-09	3.17E-09	1.57E-09	8.15E-09
1219	258658.2	4084147	1.87E-10	2.71E-09	4.78E-08	4.78E-08	2.67E-08	1.25E-07	2.84E-11	4.13E-10	7.47E-09	7.47E-09	4.11E-09	1.95E-08	1.54E-11	2.23E-10	3.32E-09	3.32E-09	1.64E-09	8.53E-09
1220	258680.7	4084156	1.96E-10	2.83E-09	4.99E-08	4.99E-08	2.78E-08	1.31E-07	2.97E-11	4.31E-10	7.80E-09	7.80E-09	4.29E-09	2.03E-08	1.61E-11	2.33E-10	3.47E-09	3.47E-09	1.72E-09	8.90E-09
1221	258703.1	4084164	2.04E-10	2.94E-09	5.20E-08	5.20E-08	2.90E-08	1.36E-07	3.09E-11	4.49E-10	8.12E-09	8.12E-09	4.46E-09	2.12E-08	1.68E-11	2.43E-10	3.61E-09	3.61E-09	1.79E-09	9.27E-09
1222	258725.5	4084172	2.11E-10	3.06E-09	5.40E-08	5.40E-08	3.01E-08	1.41E-07	3.21E-11	4.66E-10	8.43E-09	8.43E-09	4.64E-09	2.20E-08	1.74E-11	2.52E-10	3.75E-09	3.75E-09	1.86E-09	9.63E-09
1223	258748	4084181	2.19E-10	3.17E-09	5.59E-08	5.59E-08	3.12E-08	1.46E-07	3.32E-11	4.83E-10	8.73E-09	8.73E-09	4.80E-09	2.28E-08	1.81E-11	2.61E-10	3.89E-09	3.89E-09	1.92E-09	9.98E-09
1224	258770.4	4084189	2.26E-10	3.27E-09	5.78E-08	5.78E-08	3.22E-08	1.51E-07	3.43E-11	4.99E-10	9.02E-09	9.02E-09	4.96E-09	2.35E-08	1.87E-11	2.70E-10	4.01E-09	4.01E-09	1.99E-09	1.03E-08
1225	258792.9	4084197	2.33E-10	3.37E-09	5.95E-08	5.95E-08	3.32E-08	1.56E-07	3.54E-11	5.14E-10	9.30E-09	9.30E-09	5.11E-09	2.43E-08	1.92E-11	2.78E-10	4.14E-09	4.14E-09	2.05E-09	1.06E-08
1226	258815.3	4084206	2.39E-10	3.46E-09	6.12E-08	6.12E-08	3.41E-08	1.60E-07	3.63E-11	5.28E-10	9.55E-09	9.55E-09	5.25E-09	2.49E-08	1.97E-11	2.86E-10	4.25E-09	4.25E-09	2.10E-09	1.09E-08
1227	258837.7	4084214	2.45E-10	3.55E-09	6.27E-08	6.27E-08	3.49E-08	1.64E-07	3.72E-11	5.41E-10	9.78E-09	9.78E-09	5.38E-09	2.55E-08	2.02E-11	2.92E-10	4.35E-09	4.35E-09	2.15E-09	1.12E-08
1228	258860.2	4084222	2.50E-10	3.62E-09	6.40E-08	6.40E-08	3.57E-08	1.67E-07	3.80E-11	5.52E-10	9.99E-09	9.99E-09	5.49E-09	2.61E-08	2.06E-11	2.99E-10	4.44E-09	4.44E-09	2.20E-09	1.14E-08
1229	258882.6	4084230	2.55E-10	3.68E-09	6.51E-08	6.51E-08	3.63E-08	1.70E-07	3.87E-11	5.61E-10	1.02E-08	1.02E-08	5.58E-09	2.65E-08	2.10E-11	3.04E-10	4.52E-09	4.52E-09	2.24E-09	1.16E-08
1230	258905	4084239	2.59E-10	3.74E-09	6.60E-08	6.60E-08	3.68E-08	1.73E-07	3.92E-11	5.70E-10	1.03E-08	1.03E-08	5.67E-09	2.69E-08	2.13E-11	3.08E-10	4.59E-09	4.59E-09	2.27E-09	1.18E-08
1231	258927.5	4084247	2.61E-10	3.78E-09	6.67E-08	6.67E-08	3.72E-08	1.75E-07	3.97E-11	5.76E-10	1.04E-08	1.04E-08	5.73E-09	2.72E-08	2.15E-11	3.12E-10	4.64E-09	4.64E-09	2.29E-09	1.19E-08
1232	258949.9	4084255	2.63E-10	3.81E-09	6.72E-08	6.72E-08	3.75E-08	1.76E-07	3.99E-11	5.80E-10	1.05E-08	1.05E-08	5.77E-09	2.74E-08	2.17E-11	3.14E-10	4.67E-09	4.67E-09	2.31E-09	1.20E-08
1233	258982.2	4084286	2.72E-10	3.94E-09	6.95E-08	6.95E-08	3.88E-08	1.82E-07	4.13E-11	6.00E-10	1.09E-08	1.09E-08	5.97E-09	2.83E-08	2.24E-11	3.24E-10	4.83E-09	4.83E-09	2.39E-09	1.24E-08
1234	258992.1	4084307	2.79E-10	4.04E-09	7.13E-08	7.13E-08	3.98E-08	1.87E-07	4.24E-11	6.15E-10	1.11E-08	1.11E-08	6.12E-09	2.91E-08	2.30E-11	3.33E-10	4.96E-09	4.96E-09	2.45E-09	1.27E-08
1235	259001.9	4084329	2.85E-10	4.13E-09	7.29E-08	7.29E-08	4.06E-08	1.91E-07	4.33E-11	6.29E-10	1.14E-08	1.14E-08	6.25E-09	2.97E-08	2.35E-11	3.40E-10	5.06E-09	5.06E-09	2.51E-09	1.30E-08
1236	259011.8	4084351	2.90E-10	4.20E-09	7.41E-08	7.41E-08	4.13E-08	1.94E-07	4.41E-11	6.40E-10	1.16E-08	1.16E-08	6.36E-09	3.02E-08	2.39E-11	3.46E-10	5.15E-09	5.15E-09	2.55E-09	1.32E-08
1237	259021.6	4084373	2.94E-10	4.26E-09	7.51E-08	7.51E-08	4.19E-08	1.97E-07	4.46E-11	6.48E-10	1.17E-08	1.17E-08	6.45E-09	3.06E-08	2.42E-11	3.51E-10	5.22E-09	5.22E-09	2.58E-09	1.34E-08
1238	259031.5	4084394	2.97E-10	4.29E-09	7.58E-08	7.58E-08	4.23E-08	1.98E-07	4.50E-11	6.54E-10	1.18E-08	1.18E-08	6.51E-09	3.09E-08	2.45E-11	3.54E-10	5.27E-09	5.27E-09	2.61E-09	1.35E-08
1239	259041.4	4084416	2.98E-10	4.31E-09	7.62E-08	7.62E-08	4.25E-08	1.99E-07	4.53E-11	6.57E-10	1.19E-08	1.19E-08	6.54E-09	3.10E-08	2.46E-11	3.55E-10	5.29E-09	5.29E-09	2.62E-09	1.36E-08
1240	259051.2	4084438	2.98E-10	4.31E-09	7.61E-08	7.61E-08	4.25E-08	1.99E-07	4.52E-11	6.57E-10	1.19E-08	1.19E-08	6.54E-09	3.10E-08	2.46E-11	3.55E-10	5.29E-09	5.29E-09	2.62E-09	1.36E-08
1241	259061.1	4084460	2.97E-10	4.29E-09	7.58E-08	7.58E-08	4.23E-08	1.98E-07	4.50E-11	6.54E-10	1.18E-08	1.18E-08	6.51E-09	3.09E-08	2.45E-11	3.54E-10	5.27E-09	5.27E-09	2.61E-09	1.35E-08
1242	259070.9	4084482	2.94E-10	4.25E-09	7.51E-08	7.51E-08	4.19E-08	1.97E-07	4.46E-11	6.48E-10	1.17E-08	1.17E-08	6.45E-09	3.06E-08	2.42E-11	3.51E-10	5.22E-09	5.22E-09	2.58E-09	1.34E-08
1243	259080.8	4084503	2.90E-10	4.20E-09	7.41E-08	7.41E-08	4.13E-08	1.94E-07	4.41E-11	6.40E-10	1.16E-08	1.16E-08	6.36E-09	3.02E-08	2.39E-11	3.46E-10	5.15E-09	5.15E-09	2.55E-09	1.32E-08
1244	259090.7	4084525	2.85E-10	4.13E-09	7.29E-08	7.29E-08	4.06E-08	1.91E-07	4.33E-11	6.29E-10	1.14E-08	1.14E-08	6.25E-09	2.97E-08	2.35E-11	3.40E-10	5.06E-09	5.06E-09	2.51E-09	1.30E-08
1245	259100.5	4084547	2.79E-10	4.04E-09	7.13E-08	7.13E-08	3.98E-08	1.87E-07	4.24E-11	6.15E-10	1.11E-08	1.11E-08	6.12E-09	2.91E-08	2.30E-11	3.33E-10	4.95E-09	4.95E-09	2.45E-09	1.27E-08
1246	259110.4	4084569	2.72E-10	3.94E-09	6.95E-08	6.95E-08	3.88E-08	1.82E-07	4.13E-11	6.00E-10	1.09E-08	1.09E-08	5.97E-09	2.83E-08	2.24E-11	3.25E-10	4.83E-09	4.83E-09	2.39E-09	1.24E-08
1247	259120.2	4084591	2.65E-10	3.83E-09	6.76E-08	6.76E-08	3.77E-08	1.77E-07	4.01E-11	5.83E-10	1.05E-08	1.05E-08	5.80E-09	2.75E-08	2.18E-11	3.15E-10	4.69E-09	4.69E-09	2.32E-09	1.20E-08
1248	259130.1	4084612	2.56E-10	3.70E-09	6.54E-08	6.54E-08	3.65E-08	1.71E-07	3.89E-11	5.64E-10	1.02E-08	1.02E-08	5.62E-09	2.66E-08	2.11E-11	3.05E-10	4.54E-09	4.54E-09	2.25E-09	1.17E-08
1249	259140	4084634	2.47E-10	3.57E-09	6.31E-08	6.31E-08	3.52E-08	1.65E-07	3.75E-11	5.45E-10	9.86E-09	9.86E-09	5.42E-09	2.57E-08	2.04E-11	2.95E-10	4.39E-09	4.39E-09	2.17E-09	1.13E-08
1250	259149.8	4084656	2.38E-10	3.44E-09	6.07E-08	6.07E-08	3.39E-08	1.59E-07	3.61E-11	5.24E-10	9.48E-09	9.48E-09	5.21E-09	2.47E-08	1.96E-11	2.84E-10	4.22E-09	4.22E-09	2.09E-09	1.08E-08
1251	259159.7	4084678	2.29E-10	3.31E-09	5.84E-08	5.84E-08	3.25E-08	1.53E-07	3.47E-11	5.04E-10	9.11E-09	9.11E-09	5.01E-09	2.38E-08	1.88E-11	2.72E-10	4.06E-09	4.06E-09	2.01E-09	1.04E-08
1252	259169.6	4084700	2.19E-10	3.16E-09	5.59E-08	5.59E-08	3.11E-08	1.46E-07	3.32E-11	4.82E-10	8.72E-09	8.72E-09	4.80E-09	2.28E-08	1.80E-11	2.61E-10	3.88E-09	3.88E-09	1.92E-09	9.96E-09
1253	259179.4	4084721	2.08E-10	3.01E-09	5.32E-08	5.32E-08	2.97E-08	1.39E-07	3.16E-11	4.59E-10	8.31E-09	8.31E-09	4.57E-09	2.17E-08	1.72E-11	2.48E-10	3.70E-09	3.70E-09	1.83E-09	9.49E-09
1254	259189.3	4084743	1.98E-10	2.87E-09	5.07E-08	5.07E-08	2.82E-08	1.33E-07	3.01E-11	4.37E-10	7.91E-09	7.91E-09	4.35E-09	2.06E-08	1.64E-11	2.36E-10	3.52E-09	3.52E-09	1.74E-09	9.03E-09
1255	259199.1	4084765	1.89E-10	2.73E-09	4.82E-08	4.82E-08	2.69E-08	1.26E-07	2.86E-11	4.16E-10	7.53E-09	7.53E-09	4.14E-09	1.96E-08	1.56E-11	2.25E-10	3.35E-09	3.35E-09	1.66E-09	8.60E-09
1256	259209	4084787	1.79E-10	2.59E-09	4.57E-08	4.57E-08	2.55E-08	1.20E-07	2.71E-11	3.94E-10	7.13E-09	7.13E-09	3.92E-09	1.86E-08	1.47E-11	2.13E-10	3.17E-09	3.17E-09	1.57E-09	8.14E-09
1257	259218.9	4084809	1.70E-10	2.46E-09	4.34E-08	4.34E-08	2.42E-08	1.14E-07	2.58E-11	3.74E-10	6.77E-09	6.77E-09	3.72E-09	1.77E-08	1.40E-11	2.02E-10	3.01E-09	3.01E-09	1.49E-09	7.73E-09
1258	259228.7	4084830	1.61E-10	2.33E-09	4.12E-08	4.12E-08	2.30E-08	1.08E-07	2.45E-11	3.55E-10	6.43E-09	6.43E-09	3.54E-09	1.68E-08	1.33E-11	1.92E-10	2.86E-09	2.86E-09	1.42E-09	7.35E-09
1259	259238.6	4084852	1.53E-10	2.22E-09	3.92E-08	3.92E-08	2.18E-08	1.03E-07	2.33E-11	3.38E-10	6.12E-09	6.12E-09	3.36E-09	1.60E-08	1.26E-11	1.83E-10	2.72E-09	2.72E-09	1.35E-09	6.98E-09
1260	259248.4	4084874	1.46E-10	2.11E-09	3.72E-08	3.72E-08	2.08E-08	9.75E-08	2.21E-11	3.21E-10	5.82E-09	5.82E-09	3.20E-09	1.52E-08	1.20E-11	1.74E-10	2.59E-09	2.59E-09	1.28E-09	6.64E-09
1261	258321.7	4084023	7.89E-11	1.14E-09	2.02E-08	2.02E-08	1.12E-08	5.28E-08	1.20E-11	1.74E-10	3.15E-09	3.15E-09	1.73E-09	8.21E-09	6.51E-12	9.41E-11	1.40E-09	1.40E-09	6.93E-10	3.60E-09
1262	258297.4	4084024	7.59E-11	1.10E-09	1.94E-08	1.94E-08	1.08E-08	5.08E-08	1.15E-11	1.67E-10	3.03E-09	3.03E-09	1.66E-09	7.90E-09	6.26E-12	9.05E-11	1.35E-09	1.35E-09	6.67E-10	3.46E-09
1263	258273.1	4084025	7.31E-11	1.06E-09	1.87E-08	1.87E-08	1.04E-08	4.89E-08	1.11E-11	1.61E-10	2.91E-09	2.91E-09	1.60E-09	7.60E-09	6.02E-12	8.71E-11	1.30E-09	1.30E-09	6.42E-10	3.33E-09
1264	258248.7	4084026	7.03E-11	1.02E-09	1.80E-08	1.80E-08	1.00E-08	4.70E-08	1.07E-11	1.55E-10	2.80E-09	2.80E-09	1.54E-09	7.31E-09	5.79E-12	8.38E-11	1.25E-09	1.25E-09	6.17E-10	3.20E-09
1265	258224.4	4084027	6.76E-11	9.78E-10	1.73E-08	1.73E-08	9.63E-09	4.52E-08	1.03E-11	1.49E-10	2.70E-09	2.70E-09	1.48E-09	7.04E-09	5.57E-12	8.06E-11	1.20E-09	1.20E-09	5.94E-10	3.08E-09
1266	258200.1	4084028	6.50E-11	9.41E-10	1.66E-08	1.66E-08	9.26E-09	4.35E-08	9.87E-12	1.43E-10	2.59E-09	2.59E-09	1.43E-09	6.77E-09	5.36E-12	7.75E-11	1.15E-09	1.15E-09	5.71E-10	2.96E-09
1267	258175.7	4084029	6.25E-11	9.05E-10	1.60E-08	1.60E-08	8.91E-09	4.18E-08	9.49E-12	1.38E-10	2.49E-09	2.49E-09	1.37E-09	6.51E-09	5.16E-12	7.46E-11	1.11E-09	1.11E-09	5.49E-10	2.85E-09
1268	258151.4	4084030	6.01E-11	8.69E-10	1.54E-08	1.54E-08	8.56E-09	4.02E-08	9.12E-12	1.32E-10	2.40E-09	2.40E-09	1.32E-09	6.25E-09	4.95E-12	7.17E-11	1.07E-09	1.07E-09	5.28E-10	2.74E-09
1269	258127.1	4084031	5.78E-11	8.36E-10	1.48E-08	1.48E-08	8.23E-09	3.86E-08	8.77E-12	1.27E-10	2.30E-09	2.30E-09	1.27E-09	6.01E-09	4.76E-12	6.89E-11	1.03E-09	1.03E-09	5.07E-10	2.63E-09
1270	258102.7	4084032	5.55E-11	8.03E-10	1.42E-08	1.42E-08	7.91E-09	3.71E-08	8.43E-12	1.22E-10	2.21E-09	2.21E-09	1.22E-09	5.78E-09	4.58E-12	6.62E-11	9.85E-10	9.85E-10	4.88E-10	2.53E-09
1271	258078.4	4084033	5.34E-11	7.72E-10	1.36E-08	1.36E-08	7.60E-09	3.57E-08	8.10E-12	1.18E-10	2.13E-09	2.13E-09	1.17E-09	5.55E-09	4.40E-12	6.36E-11	9.47E-10	9.47E-10	4.69E-10	2.43E-09
1272	258054.1	4084034	5.13E-11	7.41E-10	1.31E-08	1.31E-08	7.30E-09	3.43E-08	7.78E-12	1.13E-10	2.04E-09	2.04E-09	1.12E-09	5.33E-09	4.23E-12	6.11E-11	9.10E-10	9.10E-10	4.50E-10	2.33E-09
1273	258029.7	4084035	4.93E-11	7.13E-10	1.26E-08	1.26E-08	7.02E-09	3.30E-08	7.48E-12	1.09E-10	1.97E-09	1.97E-09	1.08E-09	5.13E-09	4.06E-12	5.88E-11	8.74E-10	8.74E-10	4.33E-10	2.24E-09
1274	258005.4	4084036	4.74E-11	6.86E-10	1.21E-08	1.21E-08	6.75E-09	3.17E-08	7.19E-12	1.04E-10	1.89E-09	1.89E-09	1.04E-09	4.93E-09	3.91E-12	5.65E-11	8.41E-10	8.41E-10	4.16E-10	2.16E-09
1275	257981.1	4084037	4.57E-11	6.60E-10	1.17E-08	1.17E-08	6.50E-09	3.05E-08	6.93E-12	1.01E-10	1.82E-09	1.82E-09	1.00E-09	4.75E-09	3.76E-12	5.44E-11	8.10E-10	8.10E-10	4.01E-10	2.08E-09
1276	257956.7	4084038	4.40E-11	6.36E-10	1.12E-08	1.12E-08	6.26E-09	2.94E-08	6.68E-12	9.69E-11	1.75E-09	1.75E-09	9.64E-10	4.58E-09	3.63E-12	5.24E-11	7.80E-10	7.80E-10	3.86E-10	2.00E-09
1277	257932.4	4084039	4.25E-11	6.14E-10	1.08E-08	1.08E-08	6.04E-09	2.84E-08	6.44E-12	9.35E-11	1.69E-09	1.69E-09	9.31E-10	4.42E-09	3.50E-12	5.06E-11	7.53E-10	7.53E-10	3.73E-10	1.93E-09
1278	257908.1	4084040	4.10E-11	5.94E-10	1.05E-08	1.05E-08	5.85E-09	2.74E-08	6.23E-12	9.04E-11	1.64E-09	1.64E-09	9.00E-10	4.27E-09	3.38E-12	4.89E-11	7.28E-10	7.28E-10	3.61E-10	1.87E-09
1279	257883.7	4084041	3.98E-11	5.75E-10	1.02E-08	1.02E-08	5.66E-09	2.66E-08	6.03E-12	8.76E-11	1.59E-09	1.59E-09	8.72E-10	4.14E-09	3.28E-12	4.74E-11	7.05E-10	7.05E-10	3.49E-10	1.81E-09
1280	257859.4	4084042	3.86E-11	5.58E-10	9.85E-09	9.85E-09	5.49E-09	2.58E-08	5.85E-12	8.50E-11	1.54E-09	1.54E-09	8.45E-10	4.01E-09	3.18E-12	4.60E-11	6.84E-10	6.84E-10	3.39E-10	1.76E-09
1281	257835.1	4084043	3.75E-11	5.42E-10	9.57E-09	9.57E-09	5.34E-09	2.51E-08	5.69E-12	8.26E-11	1.49E-09	1.49E-09	8.22E-10	3.90E-09	3.09E-12	4.47E-11	6.65E-10	6.65E-10	3.29E-10	1.71E-09
1282	257810.7	4084044	3.65E-11	5.27E-10	9.31E-09	9.31E-09	5.19E-09	2.44E-08	5.54E-12	8.04E-11	1.45E-09	1.45E-09	8.00E-10	3.79E-09	3.01E-12	4.35E-11	6.47E-10	6.47E-10	3.20E-10	1.66E-09
1283	257786.4	4084045	3.56E-11	5.14E-10	9.08E-09	9.08E-09	5.06E-09	2.38E-08	5.40E-12	7.84E-11	1.42E-09	1.42E-09	7.80E-10	3.70E-09	2.93E-12	4.24E-11	6.31E-10	6.31E-10	3.12E-10	1.62E-09
1284	257762.1	4084046	3.48E-11	5.03E-10	8.88E-09	8.88E-09	4.95E-09	2.32E-08	5.27E-12	7.66E-11	1.39E-09	1.39E-09	7.62E-10	3.62E-09	2.86E-12	4.14E-11	6.17E-10	6.17E-10	3.05E-10	1.58E-09
1285	257737.8	4084047	3.40E-11	4.92E-10	8.69E-09	8.69E-09	4.84E-09	2.27E-08	5.16E-12	7.49E-11	1.36E-09	1.36E-09	7.46E-10	3.54E-09	2.80E-12	4.05E-11	6.03E-10	6.03E-10	2.99E-10	1.55E-09
1286	257713.4	4084048	3.33E-11	4.82E-10	8.50E-09	8.50E-09	4.74E-09	2.23E-08	5.05E-12	7.34E-11	1.33E-09	1.33E-09	7.30E-10	3.46E-09	2.74E-12	3.97E-11	5.91E-10	5.91E-10	2.92E-10	1.52E-09
1287	257689.1	4084049	3.27E-11	4.72E-10	8.34E-09	8.34E-09	4.65E-09	2.18E-08	4.96E-12	7.20E-11	1.30E-09	1.30E-09	7.16E-10	3.40E-09	2.69E-12	3.89E-11	5.79E-10	5.79E-10	2.87E-10	1.49E-09
1288	257664.8	4084050	3.20E-11	4.63E-10	8.18E-09	8.18E-09	4.56E-09	2.14E-08	4.86E-12	7.06E-11	1.28E-09	1.28E-09	7.02E-10	3.33E-09	2.64E-12	3.82E-11	5.68E-10	5.68E-10	2.81E-10	1.46E-09
1289	257640.4	4084051	3.14E-11	4.54E-10	8.02E-09	8.02E-09	4.47E-09	2.10E-08	4.77E-12	6.92E-11	1.25E-09	1.25E-09	6.89E-10	3.27E-09	2.59E-12	3.75E-11	5.57E-10	5.57E-10	2.76E-10	1.43E-09
1290	257616.1	4084052	3.08E-11	4.46E-10	7.87E-09	7.87E-09	4.39E-09	2.06E-08	4.68E-12	6.79E-11	1.23E-09	1.23E-09	6.75E-10	3.20E-09	2.54E-12	3.67E-11	5.47E-10	5.47E-10	2.71E-10	1.40E-09
1291	257591.8	4084053	3.02E-11	4.37E-10	7.71E-09	7.71E-09	4.30E-09	2.02E-08	4.58E-12	6.65E-11	1.20E-09	1.20E-09	6.62E-10	3.14E-09	2.49E-12	3.60E-11	5.36E-10	5.36E-10	2.65E-10	1.38E-09
1292	257567.4	4084054	2.96E-11	4.28E-10	7.55E-09	7.55E-09	4.21E-09	1.98E-08	4.49E-12	6.51E-11	1.18E-09	1.18E-09	6.48E-10	3.08E-09	2.44E-12	3.52E-11	5.25E-10	5.25E-10	2.60E-10	1.35E-09
1293	257543.1	4084055	2.89E-11	4.18E-10	7.39E-09	7.39E-09	4.12E-09	1.93E-08	4.39E-12	6.37E-11	1.15E-09	1.15E-09	6.34E-10	3.01E-09	2.38E-12	3.45E-11	5.13E-10	5.13E-10	2.54E-10	1.32E-09
1294	257518.8	4084056	2.83E-11	4.09E-10	7.23E-09	7.23E-09	4.03E-09	1.89E-08	4.29E-12	6.23E-11	1.13E-09	1.13E-09	6.20E-10	2.94E-09	2.33E-12	3.37E-11	5.02E-10	5.02E-10	2.48E-10	1.29E-09

1295	258336.2	4083831	4.99E-11	7.22E-10	1.28E-08	1.28E-08	7.11E-09	3.34E-08	7.58E-12	1.10E-10	1.99E-09	1.99E-09	1.09E-09	5.20E-09	4.12E-12	5.95E-11	8.86E-10	8.86E-10	4.39E-10	2.27E-09
1296	258358.9	4083840	5.25E-11	7.60E-10	1.34E-08	1.34E-08	7.48E-09	3.51E-08	7.97E-12	1.16E-10	2.10E-09	2.10E-09	1.15E-09	5.47E-09	4.33E-12	6.26E-11	9.32E-10	9.32E-10	4.61E-10	2.39E-09
1297	258381.7	4083848	5.53E-11	8.00E-10	1.41E-08	1.41E-08	7.88E-09	3.70E-08	8.40E-12	1.22E-10	2.21E-09	2.21E-09	1.21E-09	5.76E-09	4.56E-12	6.60E-11	9.82E-10	9.82E-10	4.86E-10	2.52E-09
1298	258404.4	4083857	5.84E-11	8.44E-10	1.49E-08	1.49E-08	8.31E-09	3.90E-08	8.86E-12	1.29E-10	2.33E-09	2.33E-09	1.28E-09	6.07E-09	4.81E-12	6.96E-11	1.04E-09	1.04E-09	5.13E-10	2.66E-09
1299	258427.1	4083865	6.17E-11	8.92E-10	1.58E-08	1.58E-08	8.78E-09	4.12E-08	9.36E-12	1.36E-10	2.46E-09	2.46E-09	1.35E-09	6.42E-09	5.08E-12	7.35E-11	1.09E-09	1.09E-09	5.42E-10	2.81E-09
1300	258449.8	4083873	6.52E-11	9.43E-10	1.67E-08	1.67E-08	9.29E-09	4.36E-08	9.90E-12	1.44E-10	2.60E-09	2.60E-09	1.43E-09	6.78E-09	5.38E-12	7.77E-11	1.16E-09	1.16E-09	5.73E-10	2.97E-09
1301	258472.5	4083882	6.90E-11	9.98E-10	1.76E-08	1.76E-08	9.83E-09	4.62E-08	1.05E-11	1.52E-10	2.75E-09	2.75E-09	1.51E-09	7.18E-09	5.69E-12	8.23E-11	1.22E-09	1.22E-09	6.06E-10	3.14E-09
1302	258495.3	4083890	7.30E-11	1.06E-09	1.87E-08	1.87E-08	1.04E-08	4.88E-08	1.11E-11	1.61E-10	2.91E-09	2.91E-09	1.60E-09	7.60E-09	6.02E-12	8.71E-11	1.30E-09	1.30E-09	6.42E-10	3.33E-09
1303	258518	4083899	7.73E-11	1.12E-09	1.97E-08	1.97E-08	1.10E-08	5.17E-08	1.17E-11	1.70E-10	3.08E-09	3.08E-09	1.69E-09	8.04E-09	6.37E-12	9.22E-11	1.37E-09	1.37E-09	6.79E-10	3.52E-09
1304	258540.7	4083907	8.18E-11	1.18E-09	2.09E-08	2.09E-08	1.16E-08	5.47E-08	1.24E-11	1.80E-10	3.26E-09	3.26E-09	1.79E-09	8.51E-09	6.74E-12	9.75E-11	1.45E-09	1.45E-09	7.18E-10	3.72E-09
1305	258563.4	4083916	8.65E-11	1.25E-09	2.21E-08	2.21E-08	1.23E-08	5.78E-08	1.31E-11	1.91E-10	3.45E-09	3.45E-09	1.90E-09	9.00E-09	7.13E-12	1.03E-10	1.53E-09	1.53E-09	7.60E-10	3.94E-09
1306	258586.1	4083924	9.14E-11	1.32E-09	2.33E-08	2.33E-08	1.30E-08	6.11E-08	1.39E-11	2.01E-10	3.64E-09	3.64E-09	2.00E-09	9.51E-09	7.53E-12	1.09E-10	1.62E-09	1.62E-09	8.03E-10	4.16E-09
1307	258608.9	4083932	9.65E-11	1.40E-09	2.46E-08	2.46E-08	1.37E-08	6.45E-08	1.46E-11	2.13E-10	3.85E-09	3.85E-09	2.11E-09	1.00E-08	7.95E-12	1.15E-10	1.71E-09	1.71E-09	8.47E-10	4.39E-09
1308	258631.6	4083941	1.02E-10	1.47E-09	2.60E-08	2.60E-08	1.45E-08	6.80E-08	1.54E-11	2.24E-10	4.06E-09	4.06E-09	2.23E-09	1.06E-08	8.39E-12	1.21E-10	1.81E-09	1.81E-09	8.93E-10	4.63E-09
1309	258654.3	4083949	1.07E-10	1.55E-09	2.74E-08	2.74E-08	1.53E-08	7.16E-08	1.63E-11	2.36E-10	4.27E-09	4.27E-09	2.35E-09	1.11E-08	8.83E-12	1.28E-10	1.90E-09	1.90E-09	9.41E-10	4.88E-09
1310	258677	4083958	1.13E-10	1.63E-09	2.88E-08	2.88E-08	1.60E-08	7.53E-08	1.71E-11	2.48E-10	4.49E-09	4.49E-09	2.47E-09	1.17E-08	9.29E-12	1.34E-10	2.00E-09	2.00E-09	9.89E-10	5.13E-09
1311	258699.7	4083966	1.18E-10	1.71E-09	3.02E-08	3.02E-08	1.68E-08	7.91E-08	1.80E-11	2.61E-10	4.72E-09	4.72E-09	2.59E-09	1.23E-08	9.75E-12	1.41E-10	2.10E-09	2.10E-09	1.04E-09	5.39E-09
1312	258722.5	4083974	1.24E-10	1.79E-09	3.17E-08	3.17E-08	1.77E-08	8.29E-08	1.88E-11	2.73E-10	4.94E-09	4.94E-09	2.72E-09	1.29E-08	1.02E-11	1.48E-10	2.20E-09	2.20E-09	1.09E-09	5.65E-09
1313	258745.2	4083983	1.30E-10	1.88E-09	3.31E-08	3.31E-08	1.85E-08	8.67E-08	1.97E-11	2.86E-10	5.17E-09	5.17E-09	2.84E-09	1.35E-08	1.07E-11	1.55E-10	2.30E-09	2.30E-09	1.14E-09	5.91E-09
1314	258767.9	4083991	1.35E-10	1.96E-09	3.46E-08	3.46E-08	1.93E-08	9.06E-08	2.06E-11	2.98E-10	5.40E-09	5.40E-09	2.97E-09	1.41E-08	1.12E-11	1.61E-10	2.40E-09	2.40E-09	1.19E-09	6.17E-09
1315	258790.6	4084000	1.41E-10	2.04E-09	3.60E-08	3.60E-08	2.01E-08	9.44E-08	2.14E-11	3.11E-10	5.63E-09	5.63E-09	3.09E-09	1.47E-08	1.16E-11	1.68E-10	2.50E-09	2.50E-09	1.24E-09	6.43E-09
1316	258813.3	4084008	1.47E-10	2.12E-09	3.75E-08	3.75E-08	2.09E-08	9.81E-08	2.23E-11	3.23E-10	5.85E-09	5.85E-09	3.22E-09	1.53E-08	1.21E-11	1.75E-10	2.60E-09	2.60E-09	1.29E-09	6.68E-09
1317	258836.1	4084016	1.52E-10	2.20E-09	3.89E-08	3.89E-08	2.17E-08	1.02E-07	2.31E-11	3.35E-10	6.07E-09	6.07E-09	3.34E-09	1.58E-08	1.26E-11	1.82E-10	2.70E-09	2.70E-09	1.34E-09	6.93E-09
1318	258858.8	4084025	1.58E-10	2.28E-09	4.03E-08	4.03E-08	2.24E-08	1.05E-07	2.39E-11	3.47E-10	6.29E-09	6.29E-09	3.46E-09	1.64E-08	1.30E-11	1.88E-10	2.80E-09	2.80E-09	1.38E-09	7.18E-09
1319	258881.5	4084033	1.63E-10	2.36E-09	4.16E-08	4.16E-08	2.32E-08	1.09E-07	2.47E-11	3.59E-10	6.50E-09	6.50E-09	3.57E-09	1.69E-08	1.34E-11	1.94E-10	2.89E-09	2.89E-09	1.43E-09	7.42E-09
1320	258904.2	4084042	1.68E-10	2.43E-09	4.29E-08	4.29E-08	2.39E-08	1.12E-07	2.55E-11	3.70E-10	6.69E-09	6.69E-09	3.68E-09	1.75E-08	1.38E-11	2.00E-10	2.98E-09	2.98E-09	1.47E-09	7.64E-09
1321	258926.9	4084050	1.73E-10	2.50E-09	4.41E-08	4.41E-08	2.46E-08	1.15E-07	2.62E-11	3.80E-10	6.88E-09	6.88E-09	3.78E-09	1.79E-08	1.42E-11	2.06E-10	3.06E-09	3.06E-09	1.52E-09	7.86E-09
1322	258949.7	4084059	1.77E-10	2.55E-09	4.51E-08	4.51E-08	2.51E-08	1.18E-07	2.68E-11	3.89E-10	7.04E-09	7.04E-09	3.87E-09	1.84E-08	1.45E-11	2.10E-10	3.13E-09	3.13E-09	1.55E-09	8.04E-09
1323	258972.4	4084067	1.80E-10	2.61E-09	4.61E-08	4.61E-08	2.57E-08	1.21E-07	2.74E-11	3.98E-10	7.20E-09	7.20E-09	3.96E-09	1.88E-08	1.49E-11	2.15E-10	3.20E-09	3.20E-09	1.58E-09	8.22E-09
1324	258995.1	4084075	1.84E-10	2.66E-09	4.70E-08	4.70E-08	2.62E-08	1.23E-07	2.79E-11	4.06E-10	7.34E-09	7.34E-09	4.04E-09	1.91E-08	1.52E-11	2.19E-10	3.27E-09	3.27E-09	1.62E-09	8.38E-09
1325	259017.8	4084084	1.87E-10	2.71E-09	4.78E-08	4.78E-08	2.67E-08	1.25E-07	2.84E-11	4.13E-10	7.47E-09	7.47E-09	4.11E-09	1.95E-08	1.54E-11	2.23E-10	3.32E-09	3.32E-09	1.64E-09	8.53E-09
1326	259040.5	4084092	1.90E-10	2.75E-09	4.85E-08	4.85E-08	2.71E-08	1.27E-07	2.88E-11	4.19E-10	7.58E-09	7.58E-09	4.16E-09	1.98E-08	1.57E-11	2.26E-10	3.37E-09	3.37E-09	1.67E-09	8.65E-09
1327	259063.3	4084101	1.92E-10	2.78E-09	4.91E-08	4.91E-08	2.74E-08	1.28E-07	2.92E-11	4.23E-10	7.66E-09	7.66E-09	4.21E-09	2.00E-08	1.58E-11	2.29E-10	3.41E-09	3.41E-09	1.69E-09	8.75E-09
1328	259086	4084109	1.94E-10	2.80E-09	4.95E-08	4.95E-08	2.76E-08	1.30E-07	2.94E-11	4.27E-10	7.73E-09	7.73E-09	4.25E-09	2.02E-08	1.60E-11	2.31E-10	3.44E-09	3.44E-09	1.70E-09	8.83E-09
1329	259118.7	4084139	2.01E-10	2.90E-09	5.13E-08	5.13E-08	2.86E-08	1.34E-07	3.05E-11	4.42E-10	8.00E-09	8.00E-09	4.40E-09	2.09E-08	1.65E-11	2.39E-10	3.56E-09	3.56E-09	1.76E-09	9.14E-09
1330	259128.7	4084162	2.06E-10	2.98E-09	5.26E-08	5.26E-08	2.93E-08	1.38E-07	3.13E-11	4.54E-10	8.21E-09	8.21E-09	4.52E-09	2.14E-08	1.70E-11	2.46E-10	3.65E-09	3.65E-09	1.81E-09	9.38E-09
1331	259138.7	4084184	2.11E-10	3.05E-09	5.38E-08	5.38E-08	3.00E-08	1.41E-07	3.20E-11	4.64E-10	8.40E-09	8.40E-09	4.62E-09	2.19E-08	1.74E-11	2.51E-10	3.74E-09	3.74E-09	1.85E-09	9.60E-09
1332	259148.6	4084206	2.15E-10	3.11E-09	5.49E-08	5.49E-08	3.06E-08	1.44E-07	3.26E-11	4.73E-10	8.57E-09	8.57E-09	4.71E-09	2.23E-08	1.77E-11	2.56E-10	3.81E-09	3.81E-09	1.89E-09	9.78E-09
1333	259158.6	4084228	2.18E-10	3.16E-09	5.57E-08	5.57E-08	3.11E-08	1.46E-07	3.31E-11	4.81E-10	8.70E-09	8.70E-09	4.79E-09	2.27E-08	1.80E-11	2.60E-10	3.87E-09	3.87E-09	1.92E-09	9.94E-09
1334	259168.6	4084250	2.21E-10	3.20E-09	5.64E-08	5.64E-08	3.15E-08	1.48E-07	3.35E-11	4.87E-10	8.81E-09	8.81E-09	4.84E-09	2.30E-08	1.82E-11	2.63E-10	3.92E-09	3.92E-09	1.94E-09	1.01E-08
1335	259178.6	4084272	2.23E-10	3.22E-09	5.69E-08	5.69E-08	3.17E-08	1.49E-07	3.38E-11	4.91E-10	8.89E-09	8.89E-09	4.89E-09	2.32E-08	1.84E-11	2.66E-10	3.95E-09	3.95E-09	1.96E-09	1.02E-08
1336	259188.6	4084294	2.24E-10	3.24E-09	5.72E-08	5.72E-08	3.19E-08	1.50E-07	3.40E-11	4.94E-10	8.93E-09	8.93E-09	4.91E-09	2.33E-08	1.85E-11	2.67E-10	3.97E-09	3.97E-09	1.97E-09	1.02E-08
1337	259198.6	4084316	2.24E-10	3.24E-09	5.73E-08	5.73E-08	3.19E-08	1.50E-07	3.40E-11	4.94E-10	8.94E-09	8.94E-09	4.92E-09	2.33E-08	1.85E-11	2.67E-10	3.98E-09	3.98E-09	1.97E-09	1.02E-08
1338	259208.6	4084338	2.24E-10	3.24E-09	5.71E-08	5.71E-08	3.19E-08	1.50E-07	3.39E-11	4.93E-10	8.92E-09	8.92E-09	4.90E-09	2.33E-08	1.84E-11	2.67E-10	3.97E-09	3.97E-09	1.96E-09	1.02E-08
1339	259218.5	4084360	2.22E-10	3.22E-09	5.68E-08	5.68E-08	3.17E-08	1.49E-07	3.38E-11	4.90E-10	8.87E-09	8.87E-09	4.88E-09	2.31E-08	1.83E-11	2.65E-10	3.95E-09	3.95E-09	1.95E-09	1.01E-08
1340	259228.5	4084382	2.20E-10	3.19E-09	5.63E-08	5.63E-08	3.14E-08	1.47E-07	3.34E-11	4.85E-10	8.79E-09	8.79E-09	4.83E-09	2.29E-08	1.82E-11	2.63E-10	3.91E-09	3.91E-09	1.94E-09	1.00E-08
1341	259238.5	4084404	2.18E-10	3.15E-09	5.56E-08	5.56E-08	3.10E-08	1.45E-07	3.30E-11	4.79E-10	8.68E-09	8.68E-09	4.77E-09	2.26E-08	1.79E-11	2.59E-10	3.86E-09	3.86E-09	1.91E-09	9.91E-09
1342	259248.5	4084426	2.15E-10	3.11E-09	5.49E-08	5.49E-08	3.06E-08	1.44E-07	3.26E-11	4.74E-10	8.57E-09	8.57E-09	4.71E-09	2.24E-08	1.77E-11	2.56E-10	3.81E-09	3.81E-09	1.89E-09	9.79E-09
1343	259258.5	4084449	2.11E-10	3.05E-09	5.39E-08	5.39E-08	3.01E-08	1.41E-07	3.20E-11	4.65E-10	8.42E-09	8.42E-09	4.63E-09	2.20E-08	1.74E-11	2.52E-10	3.75E-09	3.75E-09	1.85E-09	9.61E-09
1344	259268.5	4084471	2.07E-10	2.99E-09	5.28E-08	5.28E-08	2.94E-08	1.38E-07	3.14E-11	4.55E-10	8.24E-09	8.24E-09	4.53E-09	2.15E-08	1.70E-11	2.46E-10	3.67E-09	3.67E-09	1.82E-09	9.41E-09
1345	259278.5	4084493	2.02E-10	2.92E-09	5.16E-08	5.16E-08	2.88E-08	1.35E-07	3.06E-11	4.45E-10	8.05E-09	8.05E-09	4.43E-09	2.10E-08	1.66E-11	2.41E-10	3.58E-09	3.58E-09	1.77E-09	9.20E-09
1346	259288.5	4084515	1.97E-10	2.85E-09	5.03E-08	5.03E-08	2.80E-08	1.32E-07	2.99E-11	4.34E-10	7.85E-09	7.85E-09	4.32E-09	2.05E-08	1.62E-11	2.35E-10	3.49E-09	3.49E-09	1.73E-09	8.97E-09
1347	259298.4	4084537	1.92E-10	2.77E-09	4.89E-08	4.89E-08	2.73E-08	1.28E-07	2.91E-11	4.22E-10	7.64E-09	7.64E-09	4.20E-09	1.99E-08	1.58E-11	2.28E-10	3.40E-09	3.40E-09	1.68E-09	8.73E-09
1348	259308.4	4084559	1.86E-10	2.69E-09	4.75E-08	4.75E-08	2.65E-08	1.24E-07	2.82E-11	4.10E-10	7.42E-09	7.42E-09	4.08E-09	1.94E-08	1.53E-11	2.22E-10	3.30E-09	3.30E-09	1.63E-09	8.48E-09
1349	259318.4	4084581	1.80E-10	2.61E-09	4.61E-08	4.61E-08	2.57E-08	1.21E-07	2.74E-11	3.98E-10	7.20E-09	7.20E-09	3.96E-09	1.88E-08	1.49E-11	2.15E-10	3.20E-09	3.20E-09	1.58E-09	8.22E-09
1350	259328.4	4084603	1.75E-10	2.53E-09	4.46E-08	4.46E-08	2.49E-08	1.17E-07	2.65E-11	3.85E-10	6.96E-09	6.96E-09	3.83E-09	1.82E-08	1.44E-11	2.08E-10	3.10E-09	3.10E-09	1.53E-09	7.95E-09
1351	259338.4	4084625	1.68E-10	2.44E-09	4.30E-08	4.30E-08	2.40E-08	1.13E-07	2.56E-11	3.71E-10	6.72E-09	6.72E-09	3.69E-09	1.75E-08	1.39E-11	2.01E-10	2.99E-09	2.99E-09	1.48E-09	7.67E-09
1352	259348.4	4084647	1.62E-10	2.35E-09	4.14E-08	4.14E-08	2.31E-08	1.08E-07	2.46E-11	3.57E-10	6.47E-09	6.47E-09	3.56E-09	1.69E-08	1.34E-11	1.93E-10	2.88E-09	2.88E-09	1.42E-09	7.39E-09
1353	259358.4	4084669	1.56E-10	2.25E-09	3.98E-08	3.98E-08	2.22E-08	1.04E-07	2.36E-11	3.43E-10	6.21E-09	6.21E-09	3.41E-09	1.62E-08	1.28E-11	1.86E-10	2.76E-09	2.76E-09	1.37E-09	7.09E-09
1354	259368.3	4084691	1.49E-10	2.16E-09	3.81E-08	3.81E-08	2.12E-08	9.97E-08	2.26E-11	3.29E-10	5.95E-09	5.95E-09	3.27E-09	1.55E-08	1.23E-11	1.78E-10	2.65E-09	2.65E-09	1.31E-09	6.79E-09
1355	259378.3	4084713	1.43E-10	2.06E-09	3.65E-08	3.65E-08	2.03E-08	9.54E-08	2.17E-11	3.14E-10	5.69E-09	5.69E-09	3.13E-09	1.48E-08	1.18E-11	1.70E-10	2.53E-09	2.53E-09	1.25E-09	6.50E-09
1356	259388.3	4084735	1.37E-10	1.97E-09	3.49E-08	3.49E-08	1.94E-08	9.13E-08	2.07E-11	3.01E-10	5.44E-09	5.44E-09	2.99E-09	1.42E-08	1.13E-11	1.63E-10	2.42E-09	2.42E-09	1.20E-09	6.22E-09
1357	259398.3	4084758	1.31E-10	1.89E-09	3.34E-08	3.34E-08	1.86E-08	8.73E-08	1.98E-11	2.88E-10	5.21E-09	5.21E-09	2.86E-09	1.36E-08	1.08E-11	1.56E-10	2.32E-09	2.32E-09	1.15E-09	5.95E-09
1358	259408.3	4084780	1.25E-10	1.81E-09	3.20E-08	3.20E-08	1.78E-08	8.37E-08	1.90E-11	2.76E-10	4.99E-09	4.99E-09	2.74E-09	1.30E-08	1.03E-11	1.49E-10	2.22E-09	2.22E-09	1.10E-09	5.70E-09
1359	259418.3	4084802	1.20E-10	1.74E-09	3.06E-08	3.06E-08	1.71E-08	8.02E-08	1.82E-11	2.64E-10	4.79E-09	4.79E-09	2.63E-09	1.25E-08	9.89E-12	1.43E-10	2.13E-09	2.13E-09	1.05E-09	5.46E-09
1360	259428.3	4084824	1.15E-10	1.67E-09	2.94E-08	2.94E-08	1.64E-08	7.70E-08	1.75E-11	2.54E-10	4.59E-09	4.59E-09	2.53E-09	1.20E-08	9.49E-12	1.37E-10	2.04E-09	2.04E-09	1.01E-09	5.25E-09
1361	259438.2	4084846	1.11E-10	1.60E-09	2.82E-08	2.82E-08	1.57E-08	7.40E-08	1.68E-11	2.44E-10	4.41E-09	4.41E-09	2.42E-09	1.15E-08	9.12E-12	1.32E-10	1.96E-09	1.96E-09	9.71E-10	5.04E-09
1362	259448.2	4084868	1.06E-10	1.54E-09	2.71E-08	2.71E-08	1.51E-08	7.10E-08	1.61E-11	2.34E-10	4.23E-09	4.23E-09	2.33E-09	1.10E-08	8.75E-12	1.27E-10	1.88E-09	1.88E-09	9.32E-10	4.83E-09
1363	258313.5	4083823	4.76E-11	6.88E-10	1.22E-08	1.22E-08	6.78E-09	3.18E-08	7.22E-12	1.05E-10	1.90E-09	1.90E-09	1.04E-09	4.95E-09	3.92E-12	5.67E-11	8.44E-10	8.44E-10	4.18E-10	2.17E-09
1364	258289.2	4083824	4.62E-11	6.68E-10	1.18E-08	1.18E-08	6.58E-09	3.09E-08	7.01E-12	1.02E-10	1.84E-09	1.84E-09	1.01E-09	4.80E-09	3.81E-12	5.51E-11	8.19E-10	8.19E-10	4.06E-10	2.10E-09
1365	258264.8	4083825	4.48E-11	6.48E-10	1.15E-08	1.15E-08	6.38E-09	3.00E-08	6.80E-12	9.88E-11	1.79E-09	1.79E-09	9.83E-10	4.66E-09	3.70E-12	5.35E-11	7.95E-10	7.95E-10	3.94E-10	2.04E-09
1366	258240.5	4083826	4.35E-11	6.30E-10	1.11E-08	1.11E-08	6.20E-09	2.91E-08	6.61E-12	9.59E-11	1.74E-09	1.74E-09	9.54E-10	4.53E-09	3.59E-12	5.19E-11	7.72E-10	7.72E-10	3.82E-10	1.98E-09
1367	258216.2	4083827	4.23E-11	6.11E-10	1.08E-08	1.08E-08	6.02E-09	2.83E-08	6.41E-12	9.31E-11	1.69E-09	1.69E-09	9.27E-10	4.40E-09	3.48E-12	5.04E-11	7.50E-10	7.50E-10	3.71E-10	1.92E-09
1368	258191.8	4083828	4.10E-11	5.93E-10	1.05E-08	1.05E-08	5.84E-09	2.74E-08	6.22E-12	9.03E-11	1.63E-09	1.63E-09	8.99E-10	4.26E-09	3.38E-12	4.89E-11	7.27E-10	7.27E-10	3.60E-10	1.87E-09
1369	258167.5	4083829	3.98E-11	5.75E-10	1.02E-08	1.02E-08	5.66E-09	2.66E-08	6.04E-12	8.76E-11	1.59E-09	1.59E-09	8.72E-10	4.14E-09	3.28E-12	4.74E-11	7.06E-10	7.06E-10	3.49E-10	1.81E-09
1370	258143.2	4083830	3.86E-11	5.58E-10	9.85E-09	9.85E-09	5.49E-09	2.58E-08	5.85E-12	8.50E-11	1.54E-09	1.54E-09	8.45E-10	4.01E-09	3.18E-12	4.60E-11	6.84E-10	6.84E-10	3.39E-10	1.76E-09
1371	258118.8	4083831	3.74E-11	5.40E-10	9.54E-09	9.54E-09	5.32E-09	2.50E-08	5.67E-12	8.23E-11	1.49E-09	1.49E-09	8.19E-10	3.89E-09	3.08E-12	4.46E-11	6.63E-10	6.63E-10	3.28E-10	1.70E-09
1372	258094.5	4083832	3.62E-11	5.23E-10	9.24E-09	9.24E-09	5.15E-09	2.42E-08	5.49E-12	7.97E-11	1.44E-09	1.44E-09	7.93E-10	3.76E-09	2.98E-12	4.31E-11	6.42E-10	6.42E-10	3.18E-10	1.65E-09
1373	258070.2	4083833	3.50E-11	5.07E-10	8.95E-09	8.95E-09	4.99E-09	2.34E-08	5.32E-12	7.72E-11	1.40E-09	1.40E-09	7.68E-10	3.65E-09	2.89E-12	4.18E-11	6.22E-10	6.22E-10	3.08E-10	1.60E-09
1374	258045.9	4083834	3.40E-11	4.91E-10	8.67E-09	8.67E-09	4.84E-09	2.27E-08	5.15E-12	7.48E-11	1.35E-09	1.35E-09	7.44E-10	3.53E-09	2.80E-12	4.05E-11	6.02E-10	6.02E-10	2.98E-10	1.55E-09
1375	258021.5	4083835	3.29E-11	4.76E-10	8.40E-09	8.40E-09	4.68E-09	2.20E-08	4.99E-12	7.25E-11	1.31E-09	1.31E-09	7.21E-10	3.42E-09	2.71E-12	3.92E-11	5.84E-10	5.84E-10	2.89E-10	1.50E-09
1376	257997.2	4083836	3.19E-11	4.61E-10	8.15E-09	8.15E-09	4.54E-09	2.13E-08	4.84E-12	7.03E-11	1.27E-09	1.27E-09	6.99E-10	3.32E-09	2.63E-12	3.80E-11	5.66E-10	5.66E-10	2.80E-10	1.45E-09
1377	257972.9	4083837	3.09E-11	4.47E-10	7.90E-09	7.90E-09	4.40E-09	2.07E-08	4.69E-12	6.81E-11	1.23E-09	1.23E-09	6.78E-10	3.22E-09	2.55E-12	3.69E-11	5.48E-10	5.48E-10	2.71E-10	1.41E-09
1378	257948.5	4083838	3.00E-11	4.34E-10	7.67E-09	7.67E-09	4.28E-09	2.01E-08	4.56E-12	6.62E-11	1.20E-09	1.20E-09	6.59E-10	3.13E-09	2.48E-12	3.58E-11	5.33E-10	5.33E-10	2.64E-10	1.37E-09
1379	257924.2	4083839	2.92E-11	4.22E-10	7.46E-09	7.46E-09	4.16E-09	1.95E-08	4.43E-12	6.43E-11	1.16E-09	1.16E-09	6.40E-10	3.04E-09	2.41E-12	3.48E-11	5.18E-10	5.18E-10	2.56E-10	1.33E-09
1380	257899.9	4083840	2.84E-11	4.11E-10	7.26E-09	7.26E-09	4.05E-09	1.90E-08	4.31E-12	6.26E-11	1.13E-09	1.13E-09	6.23E-10	2.96E-09	2.34E-12	3.39E-11	5.04E-10	5.04E-10	2.50E-10	1.29E-09
1381	257875.5	4083841	2.77E-11	4.00E-10	7.07E-09	7.07E-09	3.94E-09	1.85E-08	4.20E-12	6.10E-11	1.10E-09	1.10E-09	6.07E-10	2.88E-09	2.28E-12	3.30E-11	4.91E-10	4.91E-10	2.43E-10	1.26E-09
1382	257851.2	4083842	2.70E-11	3.91E-10	6.90E-09	6.90E-09	3.85E-09	1.81E-08	4.10E-12	5.95E-11	1.08E-09	1.08E-09	5.92E-10	2.81E-09	2.23E-12	3.22E-11	4.79E-10	4.79E-10	2.37E-10	1.23E-09
1383	257826.9	4083843	2.64E-11	3.82E-10	6.75E-09	6.75E-09	3.76E-09	1.77E-08	4.01E-12	5.82E-11	1.05E-09	1.05E-09	5.79E-10	2.75E-09	2.18E-12	3.15E-11	4.69E-10	4.69E-10	2.32E-10	1.20E-09
1384	257802.5	4083844	2.59E-11	3.74E-10	6.60E-09	6.60E-09	3.68E-09	1.73E-08	3.92E-12	5.70E-11	1.03E-09	1.03E-09	5.67E-10	2.69E-09	2.13E-12	3.08E-11	4.59E-10	4.59E-10	2.27E-10	1.18E-09
1385	257778.2	4083845	2.54E-11	3.67E-10	6.48E-09	6.48E-09	3.61E-09	1.70E-08	3.85E-12	5.59E-11	1.01E-09	1.01E-09	5.56E-10	2.64E-09	2.09E-12	3.02E-11	4.50E-10	4.50E-10	2.23E-10	1.15E-09
1386	257753.9	4083846	2.49E-11	3.60E-10	6.36E-09	6.36E-09	3.55E-09	1.67E-08	3.78E-12	5.49E-11	9.93E-10	9.93E-10	5.46E-10	2.59E-09	2.05E-12	2.97E-11	4.42E-10	4.42E-10	2.19E-10	1.13E-09
1387	257729.5	4083847	2.45E-11	3.54E-10	6.25E-09	6.25E-09	3.49E-09	1.64E-08	3.72E-12	5.39E-11	9.76E-10	9.76E-10	5.37E-10	2.55E-09	2.02E-12	2.92E-11	4.34E-10	4.34E-10	2.15E-10	1.11E-09
1388	257705.2	4083848	2.41E-11	3.48E-10	6.15E-09	6.15E-09	3.43E-09	1.61E-08	3.66E-12	5.31E-11	9.60E-10	9.60E-10	5.28E-10	2.51E-09	1.99E-12	2.87E-11	4.27E-10	4.27E-10	2.12E-10	1.10E-09
1389	257680.9	4083849	2.37E-11	3.43E-10	6.06E-09	6.06E-09	3.38E-09	1.59E-08	3.60E-12	5.23E-11	9.47E-10	9.47E-10	5.20E-10	2.47E-09	1.96E-12	2.83E-11	4.21E-10	4.21E-10	2.08E-10	1.08E-09
1390	257656.5	4083850	2.34E-11	3.38E-10	5.98E-09	5.98E-09	3.33E-09	1.56E-08	3.55E-12	5.16E-11	9.33E-10	9.33E-10	5.13E-10	2.43E-09	1.93E-12	2.79E-11	4.15E-10	4.15E-10	2.05E-10	1.07E-09
1391	257632.2	4083851	2.31E-11	3.34E-10	5.90E-09	5.90E-09	3.29E-09	1.54E-08	3.51E-12	5.09E-11	9.21E-10	9.21E-10	5.07E-10	2.40E-09	1.90E-12	2.75E-11	4.10E-10	4.10E-10	2.03E-10	1.05E-09
1392	257607.9	4083852	2.28E-11	3.30E-10	5.82E-09	5.82E-09	3.24E-09	1.52E-08	3.46E-12	5.02E-11	9.09E-10	9.09E-10	5.00E-10	2.37E-09	1.88E-12	2.72E-11	4.04E-10	4.04E-10	2.00E-10	1.04E-09
1393	257583.5	4083853	2.25E-11	3.25E-10	5.75E-09	5.75E-09	3.20E-09	1.50E-08	3.41E-12	4.96E-11	8.97E-10	8.97E-10	4.93E-10	2.34E-09	1.85E-12	2.68E-11	3.99E-10	3.99E-10	1.98E-10	1.02E-09
1394	257559.2	4083854	2.22E-11	3.21E-10	5.67E-09	5.67E-09	3.16E-09	1.48E-08	3.37E-12	4.89E-11	8.85E-10	8.85E-10	4.87E-10	2.31E-09	1.83E-12	2.65E-11	3.94E-10	3.94E-10	1.95E-10	1.01E-09
1395	257534.9	4083855	2.19E-11	3.17E-10	5.59E-09	5.59E-09	3.12E-09	1.46E-08	3.32E-12	4.82E-11	8.73E-10	8.73E-10	4.80E-10	2.28E-09	1.80E-12	2.61E-11	3.88E-10	3.88E-10	1.92E-10	9.97E-10
1396	257510.6	4083856	2.16E-11	3.12E-10	5.52E-09	5.52E-09	3.08E-09	1.44E-08	3.28E-12	4.76E-11	8.61E-10	8.61E-10	4.73E-10	2.25E-09	1.78E-12	2.57E-11	3.83E-10	3.83E-10	1.90E-10	9.84E-10
1397	258327.7	4083631	3.38E-11	4.89E-10	8.64E-09	8.64E-09	4.82E-09	2.26E-08	5.13E-12	7.45E-11	1.35E-09	1.35E-09	7.42E-10	3.52E-09	2.79E-12	4.03E-11	6.00E-10	6.00E-10	2.97E-10	1.54E-09
1398	258350	4083640	3.51E-11	5.08E-10	8.98E-09	8.98E-09	5.00E-09	2.35E-08	5.33E-12	7.74E-11	1.40E-09	1.40E-09	7.71E-10	3.66E-09	2.90E-12	4.19E-11	6.24E-10	6.24E-10	3.09E-10	1.60E-09
1399	258372.4	4083648	3.65E-11	5.29E-10	9.33E-09	9.33E-09	5.20E-09	2.44E-08	5.55E-12	8.05E-11	1.46E-09	1.46E-09	8.01E-10	3.80E-09	3.01E-12	4.36E-11	6.48E-10	6.48E-10	3.21E-10	1.66E-09
1400	258394.8	4083656	3.81E-11	5.50E-10	9.72E-09	9.72E-09	5.42E-09	2.54E-08	5.78E-12	8.39E-11	1.52E-09	1.52E-09	8.34E-10	3.96E-09	3.14E-12	4.54E-11	6.75E-10	6.75E-10	3.34E-10	1.73E-09
1401	258417.2	4083665	3.97E-11	5.74E-10	1.01E-08	1.01E-08	5.65E-09	2.65E-08	6.03E-12	8.75E-11	1.58E-09	1.58E-09	8.70E-10	4.13E-09	3.27E-12	4.73E-11	7.04E-10	7.04E-10	3.49E-10	1.81E-09
1402	258439.5	4083673	4.14E-11	5.99E-10	1.06E-08	1.06E-08	5.90E-09	2.77E-08	6.29E-12	9.13E-11	1.65E-09	1.65E-09	9.09E-10	4.31E-09	3.42E-12	4.94E-11	7.35E-10	7.35E-10	3.64E-10	1.89E-09
1403	258461.9	4083681	4.33E-11	6.27E-10	1.11E-08	1.11E-08	6.17E-09	2.90E-08	6.58E-12	9.55E-11	1.73E-09	1.73E-09	9.50E-10	4.51E-09	3.57E-12	5.17E-11	7.69E-10	7.69E-10	3.80E-10	1.97E-09
1404	258484.3	4083689	4.53E-11	6.56E-10	1.16E-08	1.16E-08	6.46E-09	3.03E-08	6.88E-12	9.99E-11	1.81E-09	1.81E-09	9.94E-10	4.72E-09	3.74E-12	5.40E-11	8.04E-10	8.04E-10	3.98E-10	2.06E-09
1405	258506.7	4083698	4.75E-11	6.87E-10	1.21E-08	1.21E-08	6.77E-09	3.18E-08	7.21E-12	1.05E-10	1.90E-09	1.90E-09	1.04E-09	4.95E-09	3.92E-12	5.67E-11	8.43E-10	8.43E-10	4.17E-10	2.16E-09
1406	258529	4083706	4.99E-11	7.21E-10	1.27E-08	1.27E-08	7.10E-09	3.33E-08	7.57E-12	1.10E-10	1.99E-09	1.99E-09	1.09E-09	5.19E-09	4.11E-12	5.94E-11	8.85E-10	8.85E-10	4.38E-10	2.27E-09
1407	258551.4	4083714	5.23E-11	7.57E-10	1.34E-08	1.34E-08	7.45E-09	3.50E-08	7.94E-12	1.15E-10	2.09E-09	2.09E-09	1.15E-09	5.45E-09	4.32E-12	6.24E-11	9.29E-10	9.29E-10	4.60E-10	2.38E-09
1408	258573.8	4083723	5.50E-11	7.95E-10	1.40E-08	1.40E-08	7.83E-09	3.68E-08	8.35E-12	1.21E-10	2.19E-09	2.19E-09	1.21E-09	5.72E-09	4.53E-12	6.56E-11	9.76E-10	9.76E-10	4.83E-10	2.50E-09
1409	258596.2	4083731	5.78E-11	8.36E-10	1.48E-08	1.48E-08	8.23E-09	3.87E-08	8.77E-12	1.27E-10	2.31E-09	2.31E-09	1.27E-09	6.01E-09	4.76E-12	6.89E-11	1.03E-09	1.03E-09	5.08E-10	2.63E-09
1410	258618.5	4083739	6.07E-11	8.79E-10	1.55E-08	1.55E-08	8.65E-09	4.06E-08	9.22E-12	1.34E-10	2.42E-09	2.42E-09	1.33E-09	6.32E-09	5.01E-12	7.24E-11	1.08E-09	1.08E-09	5.33E-10	2.77E-09
1411	258640.9	4083747	6.38E-11	9.23E-10	1.63E-08	1.63E-08	9.09E-09	4.27E-08	9.69E-12	1.41E-10	2.55E-09	2.55E-09	1.40E-09	6.64E-09	5.26E-12	7.61E-11	1.13E-09	1.13E-09	5.61E-10	2.91E-09
1412	258663.3	4083756	6.70E-11	9.70E-10	1.71E-08	1.71E-08	9.55E-09	4.48E-08	1.02E-11	1.48E-10	2.67E-09	2.67E-09	1.47E-09	6.97E-09	5.53E-12	7.99E-11	1.19E-09	1.19E-09	5.89E-10	3.05E-09

1413	258685.7	4083764	7.04E-11	1.02E-09	1.80E-08	1.80E-08	1.00E-08	4.71E-08	1.07E-11	1.55E-10	2.81E-09	2.81E-09	1.54E-09	7.32E-09	5.80E-12	8.39E-11	1.25E-09	1.25E-09	6.18E-10	3.21E-09
1414	258708	4083772	7.39E-11	1.07E-09	1.89E-08	1.89E-08	1.05E-08	4.94E-08	1.12E-11	1.63E-10	2.95E-09	2.95E-09	1.62E-09	7.68E-09	6.09E-12	8.81E-11	1.31E-09	1.31E-09	6.49E-10	3.36E-09
1415	258730.4	4083781	7.74E-11	1.12E-09	1.98E-08	1.98E-08	1.10E-08	5.18E-08	1.18E-11	1.71E-10	3.09E-09	3.09E-09	1.70E-09	8.06E-09	6.38E-12	9.23E-11	1.37E-09	1.37E-09	6.80E-10	3.53E-09
1416	258752.8	4083789	8.11E-11	1.17E-09	2.07E-08	2.07E-08	1.16E-08	5.43E-08	1.23E-11	1.79E-10	3.24E-09	3.24E-09	1.78E-09	8.44E-09	6.69E-12	9.67E-11	1.44E-09	1.44E-09	7.13E-10	3.70E-09
1417	258775.2	4083797	8.49E-11	1.23E-09	2.17E-08	2.17E-08	1.21E-08	5.68E-08	1.29E-11	1.87E-10	3.39E-09	3.39E-09	1.86E-09	8.83E-09	7.00E-12	1.01E-10	1.51E-09	1.51E-09	7.46E-10	3.87E-09
1418	258797.6	4083805	8.88E-11	1.28E-09	2.27E-08	2.27E-08	1.26E-08	5.94E-08	1.35E-11	1.96E-10	3.54E-09	3.54E-09	1.95E-09	9.23E-09	7.32E-12	1.06E-10	1.57E-09	1.57E-09	7.80E-10	4.04E-09
1419	258819.9	4083814	9.27E-11	1.34E-09	2.37E-08	2.37E-08	1.32E-08	6.20E-08	1.41E-11	2.04E-10	3.70E-09	3.70E-09	2.03E-09	9.65E-09	7.64E-12	1.11E-10	1.64E-09	1.64E-09	8.14E-10	4.22E-09
1420	258842.3	4083822	9.67E-11	1.40E-09	2.47E-08	2.47E-08	1.38E-08	6.46E-08	1.47E-11	2.13E-10	3.86E-09	3.86E-09	2.12E-09	1.01E-08	7.97E-12	1.15E-10	1.72E-09	1.72E-09	8.49E-10	4.40E-09
1421	258864.7	4083830	1.01E-10	1.46E-09	2.57E-08	2.57E-08	1.43E-08	6.73E-08	1.53E-11	2.22E-10	4.01E-09	4.01E-09	2.21E-09	1.05E-08	8.30E-12	1.20E-10	1.79E-09	1.79E-09	8.84E-10	4.59E-09
1422	258887.1	4083839	1.05E-10	1.51E-09	2.67E-08	2.67E-08	1.49E-08	7.00E-08	1.59E-11	2.31E-10	4.18E-09	4.18E-09	2.30E-09	1.09E-08	8.63E-12	1.25E-10	1.86E-09	1.86E-09	9.20E-10	4.77E-09
1423	258909.4	4083847	1.09E-10	1.57E-09	2.78E-08	2.78E-08	1.55E-08	7.27E-08	1.65E-11	2.40E-10	4.33E-09	4.33E-09	2.38E-09	1.13E-08	8.96E-12	1.30E-10	1.93E-09	1.93E-09	9.55E-10	4.95E-09
1424	258931.8	4083855	1.13E-10	1.63E-09	2.88E-08	2.88E-08	1.60E-08	7.54E-08	1.71E-11	2.48E-10	4.49E-09	4.49E-09	2.47E-09	1.17E-08	9.29E-12	1.34E-10	2.00E-09	2.00E-09	9.90E-10	5.13E-09
1425	258954.2	4083863	1.17E-10	1.69E-09	2.98E-08	2.98E-08	1.66E-08	7.80E-08	1.77E-11	2.57E-10	4.65E-09	4.65E-09	2.56E-09	1.21E-08	9.61E-12	1.39E-10	2.07E-09	2.07E-09	1.02E-09	5.31E-09
1426	258976.6	4083872	1.21E-10	1.74E-09	3.08E-08	3.08E-08	1.72E-08	8.06E-08	1.83E-11	2.66E-10	4.81E-09	4.81E-09	2.64E-09	1.25E-08	9.94E-12	1.44E-10	2.14E-09	2.14E-09	1.06E-09	5.49E-09
1427	258998.9	4083880	1.24E-10	1.80E-09	3.17E-08	3.17E-08	1.77E-08	8.31E-08	1.89E-11	2.74E-10	4.96E-09	4.96E-09	2.73E-09	1.29E-08	1.02E-11	1.48E-10	2.21E-09	2.21E-09	1.09E-09	5.66E-09
1428	259021.3	4083888	1.28E-10	1.85E-09	3.27E-08	3.27E-08	1.82E-08	8.56E-08	1.94E-11	2.82E-10	5.10E-09	5.10E-09	2.81E-09	1.33E-08	1.05E-11	1.53E-10	2.27E-09	2.27E-09	1.12E-09	5.83E-09
1429	259043.7	4083897	1.31E-10	1.90E-09	3.36E-08	3.36E-08	1.87E-08	8.79E-08	2.00E-11	2.90E-10	5.24E-09	5.24E-09	2.88E-09	1.37E-08	1.08E-11	1.57E-10	2.33E-09	2.33E-09	1.15E-09	5.99E-09
1430	259066.1	4083905	1.35E-10	1.95E-09	3.44E-08	3.44E-08	1.92E-08	9.01E-08	2.04E-11	2.97E-10	5.37E-09	5.37E-09	2.95E-09	1.40E-08	1.11E-11	1.61E-10	2.39E-09	2.39E-09	1.18E-09	6.14E-09
1431	259088.4	4083913	1.38E-10	1.99E-09	3.52E-08	3.52E-08	1.96E-08	9.21E-08	2.09E-11	3.04E-10	5.50E-09	5.50E-09	3.02E-09	1.43E-08	1.14E-11	1.64E-10	2.45E-09	2.45E-09	1.21E-09	6.28E-09
1432	259110.8	4083921	1.41E-10	2.03E-09	3.59E-08	3.59E-08	2.00E-08	9.40E-08	2.13E-11	3.10E-10	5.61E-09	5.61E-09	3.08E-09	1.46E-08	1.16E-11	1.68E-10	2.50E-09	2.50E-09	1.24E-09	6.41E-09
1433	259133.2	4083930	1.43E-10	2.07E-09	3.66E-08	3.66E-08	2.04E-08	9.58E-08	2.17E-11	3.16E-10	5.71E-09	5.71E-09	3.14E-09	1.49E-08	1.18E-11	1.71E-10	2.54E-09	2.54E-09	1.26E-09	6.52E-09
1434	259155.6	4083938	1.46E-10	2.10E-09	3.72E-08	3.72E-08	2.07E-08	9.73E-08	2.21E-11	3.21E-10	5.80E-09	5.80E-09	3.19E-09	1.51E-08	1.20E-11	1.73E-10	2.58E-09	2.58E-09	1.28E-09	6.63E-09
1435	259177.9	4083946	1.47E-10	2.13E-09	3.77E-08	3.77E-08	2.10E-08	9.86E-08	2.24E-11	3.25E-10	5.88E-09	5.88E-09	3.23E-09	1.53E-08	1.22E-11	1.76E-10	2.62E-09	2.62E-09	1.29E-09	6.71E-09
1436	259200.3	4083955	1.49E-10	2.16E-09	3.81E-08	3.81E-08	2.12E-08	9.97E-08	2.26E-11	3.29E-10	5.95E-09	5.95E-09	3.27E-09	1.55E-08	1.23E-11	1.78E-10	2.65E-09	2.65E-09	1.31E-09	6.79E-09
1437	259222.7	4083963	1.51E-10	2.18E-09	3.84E-08	3.84E-08	2.14E-08	1.01E-07	2.28E-11	3.32E-10	6.00E-09	6.00E-09	3.30E-09	1.57E-08	1.24E-11	1.79E-10	2.67E-09	2.67E-09	1.32E-09	6.85E-09
1438	259254.9	4083993	1.56E-10	2.25E-09	3.98E-08	3.98E-08	2.22E-08	1.04E-07	2.36E-11	3.43E-10	6.21E-09	6.21E-09	3.41E-09	1.62E-08	1.28E-11	1.86E-10	2.76E-09	2.76E-09	1.37E-09	7.09E-09
1439	259264.7	4084015	1.59E-10	2.31E-09	4.07E-08	4.07E-08	2.27E-08	1.07E-07	2.42E-11	3.51E-10	6.36E-09	6.36E-09	3.49E-09	1.66E-08	1.31E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.26E-09
1440	259274.6	4084036	1.63E-10	2.36E-09	4.16E-08	4.16E-08	2.32E-08	1.09E-07	2.47E-11	3.59E-10	6.50E-09	6.50E-09	3.57E-09	1.70E-08	1.34E-11	1.94E-10	2.89E-09	2.89E-09	1.43E-09	7.42E-09
1441	259284.4	4084058	1.66E-10	2.40E-09	4.25E-08	4.25E-08	2.37E-08	1.11E-07	2.52E-11	3.66E-10	6.63E-09	6.63E-09	3.64E-09	1.73E-08	1.37E-11	1.98E-10	2.95E-09	2.95E-09	1.46E-09	7.57E-09
1442	259294.2	4084080	1.69E-10	2.45E-09	4.32E-08	4.32E-08	2.41E-08	1.13E-07	2.57E-11	3.73E-10	6.74E-09	6.74E-09	3.71E-09	1.76E-08	1.39E-11	2.02E-10	3.00E-09	3.00E-09	1.49E-09	7.70E-09
1443	259304.1	4084102	1.72E-10	2.48E-09	4.38E-08	4.38E-08	2.44E-08	1.15E-07	2.60E-11	3.78E-10	6.84E-09	6.84E-09	3.76E-09	1.79E-08	1.41E-11	2.05E-10	3.04E-09	3.04E-09	1.51E-09	7.82E-09
1444	259313.9	4084123	1.74E-10	2.51E-09	4.44E-08	4.44E-08	2.47E-08	1.16E-07	2.64E-11	3.83E-10	6.93E-09	6.93E-09	3.81E-09	1.81E-08	1.43E-11	2.07E-10	3.08E-09	3.08E-09	1.53E-09	7.91E-09
1445	259323.7	4084145	1.75E-10	2.53E-09	4.48E-08	4.48E-08	2.50E-08	1.17E-07	2.66E-11	3.86E-10	6.99E-09	6.99E-09	3.84E-09	1.82E-08	1.44E-11	2.09E-10	3.11E-09	3.11E-09	1.54E-09	7.98E-09
1446	259333.6	4084167	1.76E-10	2.55E-09	4.50E-08	4.50E-08	2.51E-08	1.18E-07	2.68E-11	3.89E-10	7.03E-09	7.03E-09	3.87E-09	1.83E-08	1.45E-11	2.10E-10	3.13E-09	3.13E-09	1.55E-09	8.03E-09
1447	259343.4	4084188	1.77E-10	2.56E-09	4.52E-08	4.52E-08	2.52E-08	1.18E-07	2.69E-11	3.90E-10	7.06E-09	7.06E-09	3.88E-09	1.84E-08	1.46E-11	2.11E-10	3.14E-09	3.14E-09	1.55E-09	8.06E-09
1448	259353.3	4084210	1.77E-10	2.56E-09	4.52E-08	4.52E-08	2.52E-08	1.18E-07	2.69E-11	3.90E-10	7.06E-09	7.06E-09	3.88E-09	1.84E-08	1.46E-11	2.11E-10	3.14E-09	3.14E-09	1.55E-09	8.06E-09
1449	259363.1	4084232	1.77E-10	2.55E-09	4.51E-08	4.51E-08	2.51E-08	1.18E-07	2.68E-11	3.89E-10	7.04E-09	7.04E-09	3.87E-09	1.84E-08	1.46E-11	2.11E-10	3.13E-09	3.13E-09	1.55E-09	8.04E-09
1450	259372.9	4084254	1.76E-10	2.54E-09	4.49E-08	4.49E-08	2.50E-08	1.17E-07	2.67E-11	3.87E-10	7.01E-09	7.01E-09	3.85E-09	1.83E-08	1.45E-11	2.09E-10	3.12E-09	3.12E-09	1.54E-09	8.00E-09
1451	259382.8	4084275	1.74E-10	2.52E-09	4.45E-08	4.45E-08	2.48E-08	1.17E-07	2.65E-11	3.84E-10	6.95E-09	6.95E-09	3.82E-09	1.81E-08	1.44E-11	2.08E-10	3.09E-09	3.09E-09	1.53E-09	7.94E-09
1452	259392.6	4084297	1.72E-10	2.49E-09	4.40E-08	4.40E-08	2.46E-08	1.15E-07	2.62E-11	3.80E-10	6.88E-09	6.88E-09	3.78E-09	1.79E-08	1.42E-11	2.06E-10	3.06E-09	3.06E-09	1.51E-09	7.85E-09
1453	259402.4	4084319	1.70E-10	2.46E-09	4.35E-08	4.35E-08	2.42E-08	1.14E-07	2.58E-11	3.75E-10	6.79E-09	6.79E-09	3.73E-09	1.77E-08	1.40E-11	2.03E-10	3.02E-09	3.02E-09	1.50E-09	7.75E-09
1454	259412.3	4084341	1.68E-10	2.42E-09	4.28E-08	4.28E-08	2.39E-08	1.12E-07	2.54E-11	3.69E-10	6.69E-09	6.69E-09	3.68E-09	1.74E-08	1.38E-11	2.00E-10	2.97E-09	2.97E-09	1.47E-09	7.63E-09
1455	259422.1	4084362	1.65E-10	2.38E-09	4.21E-08	4.21E-08	2.35E-08	1.10E-07	2.50E-11	3.63E-10	6.57E-09	6.57E-09	3.61E-09	1.71E-08	1.36E-11	1.96E-10	2.92E-09	2.92E-09	1.45E-09	7.50E-09
1456	259431.9	4084384	1.62E-10	2.34E-09	4.13E-08	4.13E-08	2.30E-08	1.08E-07	2.45E-11	3.56E-10	6.45E-09	6.45E-09	3.54E-09	1.68E-08	1.33E-11	1.93E-10	2.87E-09	2.87E-09	1.42E-09	7.36E-09
1457	259441.8	4084406	1.59E-10	2.30E-09	4.06E-08	4.06E-08	2.26E-08	1.06E-07	2.41E-11	3.50E-10	6.34E-09	6.34E-09	3.49E-09	1.65E-08	1.31E-11	1.90E-10	2.82E-09	2.82E-09	1.40E-09	7.24E-09
1458	259451.6	4084428	1.56E-10	2.25E-09	3.98E-08	3.98E-08	2.22E-08	1.04E-07	2.36E-11	3.43E-10	6.21E-09	6.21E-09	3.41E-09	1.62E-08	1.28E-11	1.86E-10	2.76E-09	2.76E-09	1.37E-09	7.09E-09
1459	259461.4	4084449	1.52E-10	2.20E-09	3.89E-08	3.89E-08	2.17E-08	1.02E-07	2.31E-11	3.36E-10	6.07E-09	6.07E-09	3.34E-09	1.58E-08	1.26E-11	1.82E-10	2.70E-09	2.70E-09	1.34E-09	6.94E-09
1460	259471.3	4084471	1.49E-10	2.15E-09	3.80E-08	3.80E-08	2.12E-08	9.95E-08	2.26E-11	3.28E-10	5.94E-09	5.94E-09	3.26E-09	1.55E-08	1.23E-11	1.77E-10	2.64E-09	2.64E-09	1.31E-09	6.78E-09
1461	259481.1	4084493	1.45E-10	2.10E-09	3.71E-08	3.71E-08	2.07E-08	9.72E-08	2.21E-11	3.20E-10	5.80E-09	5.80E-09	3.19E-09	1.51E-08	1.20E-11	1.73E-10	2.58E-09	2.58E-09	1.28E-09	6.62E-09
1462	259490.9	4084515	1.42E-10	2.05E-09	3.62E-08	3.62E-08	2.02E-08	9.49E-08	2.15E-11	3.13E-10	5.66E-09	5.66E-09	3.11E-09	1.48E-08	1.17E-11	1.69E-10	2.52E-09	2.52E-09	1.25E-09	6.46E-09
1463	259500.8	4084536	1.38E-10	2.00E-09	3.53E-08	3.53E-08	1.97E-08	9.25E-08	2.10E-11	3.05E-10	5.51E-09	5.51E-09	3.03E-09	1.44E-08	1.14E-11	1.65E-10	2.45E-09	2.45E-09	1.21E-09	6.30E-09
1464	259510.6	4084558	1.35E-10	1.95E-09	3.44E-08	3.44E-08	1.92E-08	8.99E-08	2.04E-11	2.96E-10	5.36E-09	5.36E-09	2.95E-09	1.40E-08	1.11E-11	1.60E-10	2.39E-09	2.39E-09	1.18E-09	6.13E-09
1465	259520.4	4084580	1.30E-10	1.89E-09	3.33E-08	3.33E-08	1.86E-08	8.72E-08	1.98E-11	2.87E-10	5.20E-09	5.20E-09	2.86E-09	1.36E-08	1.08E-11	1.56E-10	2.31E-09	2.31E-09	1.15E-09	5.94E-09
1466	259530.3	4084602	1.26E-10	1.83E-09	3.22E-08	3.22E-08	1.80E-08	8.44E-08	1.92E-11	2.78E-10	5.03E-09	5.03E-09	2.77E-09	1.31E-08	1.04E-11	1.51E-10	2.24E-09	2.24E-09	1.11E-09	5.75E-09
1467	259540.1	4084623	1.22E-10	1.76E-09	3.11E-08	3.11E-08	1.73E-08	8.15E-08	1.85E-11	2.68E-10	4.86E-09	4.86E-09	2.67E-09	1.27E-08	1.00E-11	1.45E-10	2.16E-09	2.16E-09	1.07E-09	5.55E-09
1468	259549.9	4084645	1.17E-10	1.70E-09	3.00E-08	3.00E-08	1.67E-08	7.84E-08	1.78E-11	2.58E-10	4.68E-09	4.68E-09	2.57E-09	1.22E-08	9.67E-12	1.40E-10	2.08E-09	2.08E-09	1.03E-09	5.34E-09
1469	259559.8	4084667	1.13E-10	1.63E-09	2.88E-08	2.88E-08	1.61E-08	7.54E-08	1.71E-11	2.49E-10	4.50E-09	4.50E-09	2.47E-09	1.17E-08	9.30E-12	1.34E-10	2.00E-09	2.00E-09	9.91E-10	5.14E-09
1470	259569.6	4084688	1.08E-10	1.57E-09	2.77E-08	2.77E-08	1.54E-08	7.25E-08	1.65E-11	2.39E-10	4.33E-09	4.33E-09	2.38E-09	1.13E-08	8.94E-12	1.29E-10	1.92E-09	1.92E-09	9.52E-10	4.94E-09
1471	259579.5	4084710	1.04E-10	1.51E-09	2.67E-08	2.67E-08	1.49E-08	6.98E-08	1.58E-11	2.30E-10	4.16E-09	4.16E-09	2.29E-09	1.09E-08	8.60E-12	1.24E-10	1.85E-09	1.85E-09	9.17E-10	4.75E-09
1472	259589.3	4084732	1.01E-10	1.46E-09	2.57E-08	2.57E-08	1.43E-08	6.73E-08	1.53E-11	2.22E-10	4.01E-09	4.01E-09	2.21E-09	1.05E-08	8.29E-12	1.20E-10	1.79E-09	1.79E-09	8.84E-10	4.58E-09
1473	259599.1	4084754	9.72E-11	1.41E-09	2.48E-08	2.48E-08	1.38E-08	6.50E-08	1.47E-11	2.14E-10	3.88E-09	3.88E-09	2.13E-09	1.01E-08	8.01E-12	1.16E-10	1.72E-09	1.72E-09	8.53E-10	4.43E-09
1474	259609	4084775	9.40E-11	1.36E-09	2.40E-08	2.40E-08	1.34E-08	6.29E-08	1.43E-11	2.07E-10	3.75E-09	3.75E-09	2.06E-09	9.78E-09	7.75E-12	1.12E-10	1.67E-09	1.67E-09	8.26E-10	4.28E-09
1475	259618.8	4084797	9.10E-11	1.32E-09	2.33E-08	2.33E-08	1.30E-08	6.09E-08	1.38E-11	2.01E-10	3.63E-09	3.63E-09	2.00E-09	9.47E-09	7.50E-12	1.09E-10	1.62E-09	1.62E-09	8.00E-10	4.15E-09
1476	259628.6	4084819	8.82E-11	1.28E-09	2.25E-08	2.25E-08	1.26E-08	5.89E-08	1.34E-11	1.94E-10	3.52E-09	3.52E-09	1.93E-09	9.17E-09	7.27E-12	1.05E-10	1.56E-09	1.56E-09	7.74E-10	4.01E-09
1477	259638.5	4084841	8.53E-11	1.23E-09	2.18E-08	2.18E-08	1.21E-08	5.70E-08	1.29E-11	1.88E-10	3.40E-09	3.40E-09	1.87E-09	8.87E-09	7.03E-12	1.02E-10	1.51E-09	1.51E-09	7.49E-10	3.88E-09
1478	259648.3	4084862	8.24E-11	1.19E-09	2.11E-08	2.11E-08	1.17E-08	5.51E-08	1.25E-11	1.82E-10	3.29E-09	3.29E-09	1.81E-09	8.58E-09	6.80E-12	9.83E-11	1.46E-09	1.46E-09	7.24E-10	3.75E-09
1479	258305.3	4083623	3.26E-11	4.71E-10	8.32E-09	8.32E-09	4.64E-09	2.18E-08	4.94E-12	7.18E-11	1.30E-09	1.30E-09	7.14E-10	3.39E-09	2.69E-12	3.88E-11	5.78E-10	5.78E-10	2.86E-10	1.48E-09
1480	258281	4083624	3.18E-11	4.60E-10	8.12E-09	8.12E-09	4.53E-09	2.13E-08	4.83E-12	7.01E-11	1.27E-09	1.27E-09	6.97E-10	3.31E-09	2.62E-12	3.79E-11	5.64E-10	5.64E-10	2.79E-10	1.45E-09
1481	258256.6	4083625	3.11E-11	4.49E-10	7.94E-09	7.94E-09	4.42E-09	2.08E-08	4.72E-12	6.85E-11	1.24E-09	1.24E-09	6.81E-10	3.23E-09	2.56E-12	3.70E-11	5.51E-10	5.51E-10	2.73E-10	1.42E-09
1482	258232.3	4083626	3.04E-11	4.39E-10	7.75E-09	7.75E-09	4.32E-09	2.03E-08	4.61E-12	6.69E-11	1.21E-09	1.21E-09	6.66E-10	3.16E-09	2.50E-12	3.62E-11	5.39E-10	5.39E-10	2.67E-10	1.38E-09
1483	258208	4083627	2.96E-11	4.29E-10	7.57E-09	7.57E-09	4.22E-09	1.98E-08	4.50E-12	6.53E-11	1.18E-09	1.18E-09	6.50E-10	3.08E-09	2.44E-12	3.53E-11	5.26E-10	5.26E-10	2.60E-10	1.35E-09
1484	258183.6	4083628	2.90E-11	4.19E-10	7.39E-09	7.39E-09	4.12E-09	1.94E-08	4.39E-12	6.38E-11	1.15E-09	1.15E-09	6.35E-10	3.01E-09	2.39E-12	3.45E-11	5.14E-10	5.14E-10	2.54E-10	1.32E-09
1485	258159.3	4083629	2.83E-11	4.09E-10	7.22E-09	7.22E-09	4.02E-09	1.89E-08	4.29E-12	6.23E-11	1.13E-09	1.13E-09	6.20E-10	2.94E-09	2.33E-12	3.37E-11	5.02E-10	5.02E-10	2.48E-10	1.29E-09
1486	258135	4083630	2.76E-11	3.99E-10	7.04E-09	7.04E-09	3.93E-09	1.84E-08	4.19E-12	6.08E-11	1.10E-09	1.10E-09	6.05E-10	2.87E-09	2.27E-12	3.29E-11	4.89E-10	4.89E-10	2.42E-10	1.26E-09
1487	258110.6	4083631	2.69E-11	3.89E-10	6.87E-09	6.87E-09	3.83E-09	1.80E-08	4.08E-12	5.92E-11	1.07E-09	1.07E-09	5.90E-10	2.80E-09	2.22E-12	3.21E-11	4.77E-10	4.77E-10	2.36E-10	1.22E-09
1488	258086.3	4083632	2.62E-11	3.79E-10	6.70E-09	6.70E-09	3.73E-09	1.75E-08	3.98E-12	5.78E-11	1.05E-09	1.05E-09	5.75E-10	2.73E-09	2.16E-12	3.13E-11	4.65E-10	4.65E-10	2.30E-10	1.19E-09
1489	258062	4083633	2.56E-11	3.70E-10	6.54E-09	6.54E-09	3.64E-09	1.71E-08	3.88E-12	5.64E-11	1.02E-09	1.02E-09	5.61E-10	2.66E-09	2.11E-12	3.05E-11	4.54E-10	4.54E-10	2.25E-10	1.17E-09
1490	258037.6	4083634	2.50E-11	3.61E-10	6.37E-09	6.37E-09	3.55E-09	1.67E-08	3.79E-12	5.50E-11	9.95E-10	9.95E-10	5.47E-10	2.60E-09	2.06E-12	2.98E-11	4.43E-10	4.43E-10	2.19E-10	1.14E-09
1491	258013.3	4083635	2.43E-11	3.52E-10	6.21E-09	6.21E-09	3.46E-09	1.63E-08	3.69E-12	5.36E-11	9.70E-10	9.70E-10	5.33E-10	2.53E-09	2.00E-12	2.90E-11	4.32E-10	4.32E-10	2.14E-10	1.11E-09
1492	257989	4083636	2.37E-11	3.43E-10	6.06E-09	6.06E-09	3.38E-09	1.59E-08	3.60E-12	5.23E-11	9.47E-10	9.47E-10	5.20E-10	2.47E-09	1.96E-12	2.83E-11	4.21E-10	4.21E-10	2.08E-10	1.08E-09
1493	257964.6	4083637	2.32E-11	3.35E-10	5.91E-09	5.91E-09	3.30E-09	1.55E-08	3.51E-12	5.10E-11	9.24E-10	9.24E-10	5.08E-10	2.41E-09	1.91E-12	2.76E-11	4.11E-10	4.11E-10	2.03E-10	1.05E-09
1494	257940.3	4083638	2.26E-11	3.27E-10	5.78E-09	5.78E-09	3.22E-09	1.51E-08	3.43E-12	4.99E-11	9.02E-10	9.02E-10	4.96E-10	2.35E-09	1.87E-12	2.70E-11	4.01E-10	4.01E-10	1.99E-10	1.03E-09
1495	257916	4083639	2.21E-11	3.20E-10	5.64E-09	5.64E-09	3.15E-09	1.48E-08	3.35E-12	4.87E-11	8.81E-10	8.81E-10	4.85E-10	2.30E-09	1.82E-12	2.63E-11	3.92E-10	3.92E-10	1.94E-10	1.01E-09
1496	257891.6	4083640	2.16E-11	3.12E-10	5.52E-09	5.52E-09	3.08E-09	1.44E-08	3.28E-12	4.76E-11	8.61E-10	8.61E-10	4.73E-10	2.25E-09	1.78E-12	2.57E-11	3.83E-10	3.83E-10	1.90E-10	9.84E-10
1497	257867.3	4083641	2.11E-11	3.06E-10	5.40E-09	5.40E-09	3.01E-09	1.41E-08	3.21E-12	4.66E-11	8.43E-10	8.43E-10	4.64E-10	2.20E-09	1.74E-12	2.52E-11	3.75E-10	3.75E-10	1.86E-10	9.63E-10
1498	257843	4083642	2.07E-11	2.99E-10	5.29E-09	5.29E-09	2.95E-09	1.38E-08	3.14E-12	4.56E-11	8.25E-10	8.25E-10	4.54E-10	2.15E-09	1.71E-12	2.47E-11	3.67E-10	3.67E-10	1.82E-10	9.43E-10
1499	257818.6	4083643	2.03E-11	2.94E-10	5.18E-09	5.18E-09	2.89E-09	1.36E-08	3.08E-12	4.47E-11	8.10E-10	8.10E-10	4.45E-10	2.11E-09	1.67E-12	2.42E-11	3.60E-10	3.60E-10	1.78E-10	9.24E-10
1500	257794.3	4083644	1.99E-11	2.88E-10	5.09E-09	5.09E-09	2.84E-09	1.33E-08	3.02E-12	4.39E-11	7.95E-10	7.95E-10	4.37E-10	2.07E-09	1.64E-12	2.38E-11	3.54E-10	3.54E-10	1.75E-10	9.08E-10
1501	257770	4083645	1.96E-11	2.83E-10	5.00E-09	5.00E-09	2.79E-09	1.31E-08	2.97E-12	4.32E-11	7.81E-10	7.81E-10	4.29E-10	2.04E-09	1.61E-12	2.33E-11	3.47E-10	3.47E-10	1.72E-10	8.92E-10
1502	257745.7	4083646	1.92E-11	2.78E-10	4.91E-09	4.91E-09	2.74E-09	1.29E-08	2.92E-12	4.24E-11	7.67E-10	7.67E-10	4.22E-10	2.00E-09	1.59E-12	2.29E-11	3.41E-10	3.41E-10	1.69E-10	8.76E-10
1503	257721.3	4083647	1.90E-11	2.74E-10	4.84E-09	4.84E-09	2.70E-09	1.27E-08	2.88E-12	4.18E-11	7.56E-10	7.56E-10	4.15E-10	1.97E-09	1.56E-12	2.26E-11	3.36E-10	3.36E-10	1.66E-10	8.63E-10
1504	257697	4083648	1.87E-11	2.70E-10	4.77E-09	4.77E-09	2.66E-09	1.25E-08	2.84E-12	4.12E-11	7.45E-10	7.45E-10	4.10E-10	1.94E-09	1.54E-12	2.23E-11	3.32E-10	3.32E-10	1.64E-10	8.51E-10
1505	257672.7	4083649	1.84E-11	2.66E-10	4.70E-09	4.70E-09	2.62E-09	1.23E-08	2.80E-12	4.06E-11	7.35E-10	7.35E-10	4.04E-10	1.92E-09	1.52E-12	2.20E-11	3.27E-10	3.27E-10	1.62E-10	8.39E-10
1506	257648.3	4083650	1.82E-11	2.63E-10	4.64E-09	4.64E-09	2.59E-09	1.22E-08	2.76E-12	4.01E-11	7.25E-10	7.25E-10	3.99E-10	1.89E-09	1.50E-12	2.17E-11	3.23E-10	3.23E-10	1.60E-10	8.28E-10
1507	257624	4083651	1.79E-11	2.60E-10	4.58E-09	4.58E-09	2.56E-09	1.20E-08	2.72E-12	3.95E-11	7.16E-10	7.16E-10	3.93E-10	1.87E-09	1.48E-12	2.14E-11	3.18E-10	3.18E-10	1.58E-10	8.17E-10
1508	257599.7	4083652	1.77E-11	2.56E-10	4.53E-09	4.53E-09	2.52E-09	1.19E-08	2.69E-12	3.91E-11	7.07E-10	7.07E-10	3.89E-10	1.84E-09	1.46E-12	2.11E-11	3.15E-10	3.15E-10	1.56E-10	8.08E-10
1509	257575.3	4083653	1.75E-11	2.53E-10	4.47E-09	4.47E-09	2.49E-09	1.17E-08	2.66E-12	3.86E-11	6.99E-10	6.99E-10	3.84E-10	1.82E-09	1.44E-12	2.09E-11	3.11E-10	3.11E-10	1.54E-10	7.98E-10
1510	257551	4083654	1.73E-11	2.50E-10	4.42E-09	4.42E-09	2.46E-09	1.16E-08	2.63E-12	3.81E-11	6.90E-10	6.90E-10	3.79E-10	1.80E-09	1.43E-12	2.06E-11	3.07E-10	3.07E-10	1.52E-10	7.88E-10
1511	257526.7	4083655	1.71E-11	2.48E-10	4.37E-09	4.37E-09	2.44E-09	1.14E-08	2.60E-12	3.77E-11	6.83E-10	6.83E-10	3.75E-10	1.78E-09	1.41E-12	2.04E-11	3.04E-10	3.04E-10	1.50E-10	7.80E-10
1512	257502.3	4083656	1.69E-11	2.45E-10	4.32E-09	4.32E-09	2.41E-09	1.13E-08	2.57E-12	3.73E-11	6.74E-10	6.74E-10	3.71E-10	1.76E-09	1.39E-12	2.02E-11	3.00E-10	3.00E-10	1.49E-10	7.70E-10
1513	258319.7	4083432	2.50E-11	3.61E-10	6.37E-09	6.37E-09	3.55E-09	1.67E-08	3.79E-12	5.50E-11	9.95E-10	9.95E-10	5.47E-10	2.60E-09	2.06E-12	2.98E-11	4.43E-10	4.43E-10	2.19E-10	1.14E-09
1514	258342.3	4083440	2.58E-11	3.73E-10	6.58E-09	6.58E-09	3.67E-09	1.72E-08	3.91E-12	5.68E-11	1.03E-09	1.03E-09	5.65E-10	2.68E-09	2.12E-12	3.07E-11	4.57E-10	4.57E-10	2.26E-10	1.17E-09
1515	258364.8	4083448	2.66E-11	3.85E-10	6.80E-09	6.80E-09	3.79E-09	1.78E-08	4.04E-12	5.87E-11	1.06E-09	1.06E-09	5.84E-10	2.77E-09	2.19E-12	3.17E-11	4.72E-10	4.72E-10	2.34E-10	1.21E-09
1516	258387.4	4083457	2.75E-11	3.98E-10	7.03E-09	7.03E-09	3.92E-09	1.84E-08	4.18E-12	6.06E-11	1.10E-09	1.10E-09	6.03E-10	2.86E-09	2.27E-12	3.28E-11	4.88E-10	4.88E-10	2.42E-10	1.25E-09
1517	258410	4083465	2.85E-11	4.12E-10	7.27E-09	7.27E-09	4.05E-09	1.90E-08	4.32E-12	6.27E-11	1.14E-09	1.14E-09	6.24E-10	2.96E-09	2.35E-12	3.40E-11	5.05E-10	5.05E-10	2.50E-10	1.30E-09
1518	258432.6	4083474	2.95E-11	4.27E-10	7.54E-09	7.54E-09	4.20E-09	1.97E-08	4.48E-12	6.50E-11	1.18E-09	1.18E-09	6.47E-10	3.07E-09	2.43E-12	3.52E-11	5.24E-10	5.24E-10	2.59E-10	1.34E-09
1519	258455.2	4083482	3.06E-11	4.42E-10	7.81E-09	7.81E-09	4.35E-09	2.04E-08	4.64E-12	6.74E-11	1.22E-09	1.22E-09	6.70E-10	3.18E-09	2.52E-12	3.64E-11	5.42E-10	5.42E-10	2.68E-10	1.39E-09
1520	258477.8	4083490	3.17E-11	4.59E-10	8.10E-09	8.10E-09	4.51E-09	2.12E-08	4.81E-12	6.99E-11	1.26E-09	1.26E-09	6.95E-10	3.30E-09	2.61E-12	3.78E-11	5.63E-10	5.63E-10	2.78E-10	1.44E-09
1521	258500.4	4083499	3.29E-11	4.76E-10	8.40E-09	8.40E-09	4.68E-09	2.20E-08	4.99E-12	7.25E-11	1.31E-09	1.31E-09	7.21E-10	3.42E-09	2.71E-12	3.92E-11	5.84E-10	5.84E-10	2.89E-10	1.50E-09
1522	258523	4083507	3.42E-11	4.95E-10	8.73E-09	8.73E-09	4.87E-09	2.29E-08	5.19E-12	7.53E-11	1.36E-09	1.36E-09	7.50E-10	3.56E-09	2.82E-12	4.08E-11	6.07E-10	6.07E-10	3.00E-10	1.56E-09
1523	258545.6	4083515	3.56E-11	5.14E-10	9.08E-09	9.08E-09	5.06E-09	2.38E-08	5.40E-12	7.84E-11	1.42E-09	1.42E-09	7.80E-10	3.70E-09	2.93E-12	4.24E-11	6.31E-10	6.31E-10	3.12E-10	1.62E-09
1524	258568.2	4083524	3.70E-11	5.36E-10	9.46E-09	9.46E-09	5.27E-09	2.48E-08	5.62E-12	8.16E-11	1.48E-09	1.48E-09	8.12E-10	3.85E-09	3.05E-12	4.41E-11	6.57E-10	6.57E-10	3.25E-10	1.69E-09
1525	258590.8	4083532	3.86E-11	5.58E-10	9.86E-09	9.86E-09	5.49E-09	2.58E-08	5.86E-12	8.50E-11	1.54E-09	1.54E-09	8.46E-10	4.01E-09	3.18E-12	4.60E-11	6.85E-10	6.85E-10	3.39E-10	1.76E-09
1526	258613.3	4083540	4.03E-11	5.82E-10	1.03E-08	1.03E-08	5.73E-09	2.69E-08	6.11E-12	8.87E-11	1.61E-09	1.61E-09	8.83E-10	4.19E-09	3.32E-12	4.80E-11	7.14E-10	7.14E-10	3.54E-10	1.83E-09
1527	258635.9	4083549	4.20E-11	6.08E-10	1.07E-08	1.07E-08	5.98E-09	2.81E-08	6.38E-12	9.26E-11	1.68E-09	1.68E-09	9.21E-10	4.37E-09	3.46E-12	5.01E-11	7.46E-10	7.46E-10	3.69E-10	1.91E-09
1528	258658.5	4083557	4.39E-11	6.35E-10	1.12E-08	1.12E-08	6.26E-09	2.94E-08	6.67E-12	9.68E-11	1.75E-09	1.75E-09	9.63E-10	4.57E-09	3.62E-12	5.24E-11	7.80E-10	7.80E-10	3.86E-10	2.00E-09
1529	258681.1	4083566	4.59E-11	6.65E-10	1.17E-08	1.17E-08	6.54E-09	3.07E-08	6.97E-12	1.01E-10	1.83E-09	1.83E-09	1.01E-09	4.78E-09	3.79E-12	5.48E-11	8.15E-10	8.15E-10	4.03E-10	2.09E-09
1530	258703.7	4083574	4.80E-11	6.95E-10	1.23E-08	1.23E-08	6.84E-09	3.21E-08	7.29E-12	1.06E-10	1.92E-09	1.92E-09	1.05E-09	5.00E-09	3.96E-12	5.73E-11	8.52E-10	8.52E-10	4.22E-10	2.19E-09

1531	258726.3	4083582	5.03E-11	7.27E-10	1.28E-08	1.28E-08	7.16E-09	3.36E-08	7.63E-12	1.11E-10	2.00E-09	2.00E-09	1.10E-09	5.23E-09	4.14E-12	5.99E-11	8.92E-10	8.92E-10	4.41E-10	2.29E-09
1532	258748.9	4083591	5.26E-11	7.60E-10	1.34E-08	1.34E-08	7.48E-09	3.51E-08	7.98E-12	1.16E-10	2.10E-09	2.10E-09	1.15E-09	5.47E-09	4.33E-12	6.27E-11	9.33E-10	9.33E-10	4.62E-10	2.39E-09
1533	258771.5	4083599	5.49E-11	7.95E-10	1.40E-08	1.40E-08	7.82E-09	3.67E-08	8.34E-12	1.21E-10	2.19E-09	2.19E-09	1.20E-09	5.72E-09	4.53E-12	6.55E-11	9.75E-10	9.75E-10	4.83E-10	2.50E-09
1534	258794.1	4083607	5.74E-11	8.31E-10	1.47E-08	1.47E-08	8.18E-09	3.84E-08	8.72E-12	1.27E-10	2.29E-09	2.29E-09	1.26E-09	5.97E-09	4.73E-12	6.85E-11	1.02E-09	1.02E-09	5.04E-10	2.62E-09
1535	258816.7	4083616	6.00E-11	8.68E-10	1.53E-08	1.53E-08	8.54E-09	4.01E-08	9.11E-12	1.32E-10	2.39E-09	2.39E-09	1.32E-09	6.24E-09	4.95E-12	7.15E-11	1.06E-09	1.06E-09	5.27E-10	2.73E-09
1536	258839.3	4083624	6.26E-11	9.06E-10	1.60E-08	1.60E-08	8.92E-09	4.19E-08	9.51E-12	1.38E-10	2.50E-09	2.50E-09	1.37E-09	6.52E-09	5.16E-12	7.47E-11	1.11E-09	1.11E-09	5.50E-10	2.85E-09
1537	258861.8	4083632	6.53E-11	9.45E-10	1.67E-08	1.67E-08	9.30E-09	4.37E-08	9.92E-12	1.44E-10	2.61E-09	2.61E-09	1.43E-09	6.80E-09	5.39E-12	7.79E-11	1.16E-09	1.16E-09	5.74E-10	2.98E-09
1538	258884.4	4083641	6.81E-11	9.85E-10	1.74E-08	1.74E-08	9.70E-09	4.56E-08	1.03E-11	1.50E-10	2.72E-09	2.72E-09	1.49E-09	7.09E-09	5.62E-12	8.12E-11	1.21E-09	1.21E-09	5.98E-10	3.10E-09
1539	258907	4083649	7.10E-11	1.03E-09	1.81E-08	1.81E-08	1.01E-08	4.74E-08	1.08E-11	1.56E-10	2.83E-09	2.83E-09	1.56E-09	7.38E-09	5.85E-12	8.46E-11	1.26E-09	1.26E-09	6.23E-10	3.23E-09
1540	258929.6	4083658	7.39E-11	1.07E-09	1.89E-08	1.89E-08	1.05E-08	4.94E-08	1.12E-11	1.63E-10	2.95E-09	2.95E-09	1.62E-09	7.68E-09	6.09E-12	8.81E-11	1.31E-09	1.31E-09	6.49E-10	3.36E-09
1541	258952.2	4083666	7.68E-11	1.11E-09	1.96E-08	1.96E-08	1.09E-08	5.14E-08	1.17E-11	1.69E-10	3.06E-09	3.06E-09	1.68E-09	7.99E-09	6.33E-12	9.16E-11	1.36E-09	1.36E-09	6.75E-10	3.50E-09
1542	258974.8	4083674	7.98E-11	1.15E-09	2.04E-08	2.04E-08	1.14E-08	5.34E-08	1.21E-11	1.76E-10	3.18E-09	3.18E-09	1.75E-09	8.30E-09	6.58E-12	9.51E-11	1.42E-09	1.42E-09	7.01E-10	3.63E-09
1543	258997.4	4083683	8.28E-11	1.20E-09	2.12E-08	2.12E-08	1.18E-08	5.54E-08	1.26E-11	1.82E-10	3.30E-09	3.30E-09	1.82E-09	8.62E-09	6.83E-12	9.87E-11	1.47E-09	1.47E-09	7.27E-10	3.77E-09
1544	259020	4083691	8.59E-11	1.24E-09	2.19E-08	2.19E-08	1.22E-08	5.74E-08	1.30E-11	1.89E-10	3.42E-09	3.42E-09	1.88E-09	8.93E-09	7.08E-12	1.02E-10	1.52E-09	1.52E-09	7.54E-10	3.91E-09
1545	259042.6	4083699	8.89E-11	1.29E-09	2.27E-08	2.27E-08	1.27E-08	5.94E-08	1.35E-11	1.96E-10	3.55E-09	3.55E-09	1.95E-09	9.25E-09	7.33E-12	1.06E-10	1.58E-09	1.58E-09	7.81E-10	4.05E-09
1546	259065.2	4083708	9.19E-11	1.33E-09	2.35E-08	2.35E-08	1.31E-08	6.15E-08	1.39E-11	2.03E-10	3.67E-09	3.67E-09	2.02E-09	9.56E-09	7.58E-12	1.10E-10	1.63E-09	1.63E-09	8.07E-10	4.19E-09
1547	259087.8	4083716	9.49E-11	1.37E-09	2.42E-08	2.42E-08	1.35E-08	6.35E-08	1.44E-11	2.09E-10	3.78E-09	3.78E-09	2.08E-09	9.87E-09	7.82E-12	1.13E-10	1.68E-09	1.68E-09	8.34E-10	4.32E-09
1548	259110.3	4083724	9.79E-11	1.42E-09	2.50E-08	2.50E-08	1.39E-08	6.54E-08	1.49E-11	2.16E-10	3.90E-09	3.90E-09	2.15E-09	1.02E-08	8.07E-12	1.17E-10	1.74E-09	1.74E-09	8.60E-10	4.46E-09
1549	259132.9	4083733	1.01E-10	1.46E-09	2.57E-08	2.57E-08	1.43E-08	6.74E-08	1.53E-11	2.22E-10	4.02E-09	4.02E-09	2.21E-09	1.05E-08	8.31E-12	1.20E-10	1.79E-09	1.79E-09	8.85E-10	4.59E-09
1550	259155.5	4083741	1.04E-10	1.50E-09	2.64E-08	2.64E-08	1.47E-08	6.92E-08	1.57E-11	2.28E-10	4.13E-09	4.13E-09	2.27E-09	1.08E-08	8.53E-12	1.23E-10	1.84E-09	1.84E-09	9.09E-10	4.72E-09
1551	259178.1	4083750	1.06E-10	1.54E-09	2.71E-08	2.71E-08	1.51E-08	7.10E-08	1.61E-11	2.34E-10	4.24E-09	4.24E-09	2.33E-09	1.10E-08	8.75E-12	1.27E-10	1.88E-09	1.88E-09	9.33E-10	4.84E-09
1552	259200.7	4083758	1.09E-10	1.57E-09	2.78E-08	2.78E-08	1.55E-08	7.27E-08	1.65E-11	2.40E-10	4.34E-09	4.34E-09	2.38E-09	1.13E-08	8.96E-12	1.30E-10	1.93E-09	1.93E-09	9.55E-10	4.95E-09
1553	259223.3	4083766	1.11E-10	1.61E-09	2.84E-08	2.84E-08	1.58E-08	7.43E-08	1.69E-11	2.45E-10	4.43E-09	4.43E-09	2.44E-09	1.16E-08	9.16E-12	1.32E-10	1.97E-09	1.97E-09	9.76E-10	5.06E-09
1554	259245.9	4083775	1.13E-10	1.64E-09	2.89E-08	2.89E-08	1.61E-08	7.58E-08	1.72E-11	2.50E-10	4.52E-09	4.52E-09	2.48E-09	1.18E-08	9.34E-12	1.35E-10	2.01E-09	2.01E-09	9.95E-10	5.16E-09
1555	259268.5	4083783	1.15E-10	1.67E-09	2.94E-08	2.94E-08	1.64E-08	7.71E-08	1.75E-11	2.54E-10	4.60E-09	4.60E-09	2.53E-09	1.20E-08	9.50E-12	1.37E-10	2.05E-09	2.05E-09	1.01E-09	5.25E-09
1556	259291.1	4083791	1.17E-10	1.69E-09	2.99E-08	2.99E-08	1.67E-08	7.83E-08	1.78E-11	2.58E-10	4.67E-09	4.67E-09	2.57E-09	1.22E-08	9.65E-12	1.40E-10	2.08E-09	2.08E-09	1.03E-09	5.33E-09
1557	259313.7	4083800	1.19E-10	1.72E-09	3.03E-08	3.03E-08	1.69E-08	7.93E-08	1.80E-11	2.61E-10	4.73E-09	4.73E-09	2.60E-09	1.23E-08	9.78E-12	1.41E-10	2.10E-09	2.10E-09	1.04E-09	5.40E-09
1558	259336.3	4083808	1.20E-10	1.74E-09	3.06E-08	3.06E-08	1.71E-08	8.02E-08	1.82E-11	2.64E-10	4.78E-09	4.78E-09	2.63E-09	1.25E-08	9.89E-12	1.43E-10	2.13E-09	2.13E-09	1.05E-09	5.46E-09
1559	259358.8	4083816	1.21E-10	1.75E-09	3.09E-08	3.09E-08	1.72E-08	8.10E-08	1.84E-11	2.67E-10	4.83E-09	4.83E-09	2.66E-09	1.26E-08	9.98E-12	1.44E-10	2.15E-09	2.15E-09	1.06E-09	5.52E-09
1560	259391.4	4083847	1.25E-10	1.81E-09	3.20E-08	3.20E-08	1.78E-08	8.37E-08	1.90E-11	2.76E-10	4.99E-09	4.99E-09	2.74E-09	1.30E-08	1.03E-11	1.49E-10	2.22E-09	2.22E-09	1.10E-09	5.70E-09
1561	259401.3	4083869	1.28E-10	1.85E-09	3.27E-08	3.27E-08	1.82E-08	8.57E-08	1.94E-11	2.82E-10	5.11E-09	5.11E-09	2.81E-09	1.33E-08	1.06E-11	1.53E-10	2.27E-09	2.27E-09	1.12E-09	5.83E-09
1562	259411.2	4083891	1.31E-10	1.89E-09	3.34E-08	3.34E-08	1.86E-08	8.75E-08	1.99E-11	2.88E-10	5.22E-09	5.22E-09	2.87E-09	1.36E-08	1.08E-11	1.56E-10	2.32E-09	2.32E-09	1.15E-09	5.96E-09
1563	259421.2	4083913	1.33E-10	1.93E-09	3.41E-08	3.41E-08	1.90E-08	8.93E-08	2.03E-11	2.94E-10	5.32E-09	5.32E-09	2.93E-09	1.39E-08	1.10E-11	1.59E-10	2.37E-09	2.37E-09	1.17E-09	6.08E-09
1564	259431.1	4083935	1.36E-10	1.97E-09	3.47E-08	3.47E-08	1.93E-08	9.09E-08	2.06E-11	2.99E-10	5.42E-09	5.42E-09	2.98E-09	1.41E-08	1.12E-11	1.62E-10	2.41E-09	2.41E-09	1.19E-09	6.19E-09
1565	259441	4083956	1.38E-10	2.00E-09	3.53E-08	3.53E-08	1.97E-08	9.23E-08	2.10E-11	3.04E-10	5.51E-09	5.51E-09	3.03E-09	1.44E-08	1.14E-11	1.65E-10	2.45E-09	2.45E-09	1.21E-09	6.29E-09
1566	259450.9	4083978	1.40E-10	2.02E-09	3.57E-08	3.57E-08	1.99E-08	9.36E-08	2.12E-11	3.08E-10	5.58E-09	5.58E-09	3.07E-09	1.46E-08	1.15E-11	1.67E-10	2.48E-09	2.48E-09	1.23E-09	6.37E-09
1567	259460.9	4084000	1.42E-10	2.05E-09	3.62E-08	3.62E-08	2.02E-08	9.46E-08	2.15E-11	3.12E-10	5.64E-09	5.64E-09	3.10E-09	1.47E-08	1.17E-11	1.69E-10	2.51E-09	2.51E-09	1.24E-09	6.45E-09
1568	259470.8	4084022	1.43E-10	2.07E-09	3.65E-08	3.65E-08	2.03E-08	9.55E-08	2.17E-11	3.15E-10	5.70E-09	5.70E-09	3.13E-09	1.49E-08	1.18E-11	1.70E-10	2.53E-09	2.53E-09	1.25E-09	6.51E-09
1569	259480.7	4084044	1.44E-10	2.08E-09	3.67E-08	3.67E-08	2.05E-08	9.62E-08	2.18E-11	3.17E-10	5.74E-09	5.74E-09	3.15E-09	1.50E-08	1.19E-11	1.72E-10	2.55E-09	2.55E-09	1.26E-09	6.55E-09
1570	259490.7	4084066	1.45E-10	2.09E-09	3.69E-08	3.69E-08	2.06E-08	9.66E-08	2.19E-11	3.18E-10	5.76E-09	5.76E-09	3.17E-09	1.50E-08	1.19E-11	1.72E-10	2.56E-09	2.56E-09	1.27E-09	6.58E-09
1571	259500.6	4084088	1.45E-10	2.10E-09	3.70E-08	3.70E-08	2.06E-08	9.69E-08	2.20E-11	3.19E-10	5.78E-09	5.78E-09	3.18E-09	1.51E-08	1.19E-11	1.73E-10	2.57E-09	2.57E-09	1.27E-09	6.60E-09
1572	259510.5	4084110	1.45E-10	2.09E-09	3.70E-08	3.70E-08	2.06E-08	9.68E-08	2.20E-11	3.19E-10	5.78E-09	5.78E-09	3.18E-09	1.51E-08	1.19E-11	1.73E-10	2.57E-09	2.57E-09	1.27E-09	6.60E-09
1573	259520.4	4084132	1.44E-10	2.09E-09	3.69E-08	3.69E-08	2.06E-08	9.66E-08	2.19E-11	3.18E-10	5.76E-09	5.76E-09	3.17E-09	1.50E-08	1.19E-11	1.72E-10	2.56E-09	2.56E-09	1.27E-09	6.58E-09
1574	259530.4	4084154	1.44E-10	2.08E-09	3.67E-08	3.67E-08	2.05E-08	9.61E-08	2.18E-11	3.17E-10	5.73E-09	5.73E-09	3.15E-09	1.50E-08	1.18E-11	1.71E-10	2.55E-09	2.55E-09	1.26E-09	6.54E-09
1575	259540.3	4084176	1.43E-10	2.06E-09	3.64E-08	3.64E-08	2.03E-08	9.54E-08	2.16E-11	3.14E-10	5.69E-09	5.69E-09	3.13E-09	1.48E-08	1.18E-11	1.70E-10	2.53E-09	2.53E-09	1.25E-09	6.50E-09
1576	259550.2	4084198	1.41E-10	2.04E-09	3.61E-08	3.61E-08	2.01E-08	9.44E-08	2.14E-11	3.11E-10	5.63E-09	5.63E-09	3.10E-09	1.47E-08	1.16E-11	1.68E-10	2.51E-09	2.51E-09	1.24E-09	6.43E-09
1577	259560.2	4084220	1.40E-10	2.02E-09	3.57E-08	3.57E-08	1.99E-08	9.33E-08	2.12E-11	3.08E-10	5.57E-09	5.57E-09	3.06E-09	1.45E-08	1.15E-11	1.66E-10	2.48E-09	2.48E-09	1.23E-09	6.36E-09
1578	259570.1	4084242	1.38E-10	1.99E-09	3.52E-08	3.52E-08	1.96E-08	9.20E-08	2.09E-11	3.03E-10	5.49E-09	5.49E-09	3.02E-09	1.43E-08	1.13E-11	1.64E-10	2.44E-09	2.44E-09	1.21E-09	6.27E-09
1579	259580	4084264	1.35E-10	1.96E-09	3.46E-08	3.46E-08	1.93E-08	9.06E-08	2.06E-11	2.99E-10	5.40E-09	5.40E-09	2.97E-09	1.41E-08	1.12E-11	1.62E-10	2.40E-09	2.40E-09	1.19E-09	6.17E-09
1580	259590	4084286	1.33E-10	1.93E-09	3.40E-08	3.40E-08	1.90E-08	8.91E-08	2.02E-11	2.94E-10	5.31E-09	5.31E-09	2.92E-09	1.39E-08	1.10E-11	1.59E-10	2.36E-09	2.36E-09	1.17E-09	6.07E-09
1581	259599.9	4084308	1.31E-10	1.89E-09	3.34E-08	3.34E-08	1.86E-08	8.75E-08	1.98E-11	2.88E-10	5.22E-09	5.22E-09	2.87E-09	1.36E-08	1.08E-11	1.56E-10	2.32E-09	2.32E-09	1.15E-09	5.96E-09
1582	259609.8	4084330	1.28E-10	1.86E-09	3.28E-08	3.28E-08	1.83E-08	8.58E-08	1.95E-11	2.83E-10	5.12E-09	5.12E-09	2.81E-09	1.34E-08	1.06E-11	1.53E-10	2.28E-09	2.28E-09	1.13E-09	5.85E-09
1583	259619.7	4084352	1.26E-10	1.82E-09	3.22E-08	3.22E-08	1.79E-08	8.42E-08	1.91E-11	2.78E-10	5.02E-09	5.02E-09	2.76E-09	1.31E-08	1.04E-11	1.50E-10	2.23E-09	2.23E-09	1.11E-09	5.74E-09
1584	259629.7	4084374	1.24E-10	1.79E-09	3.16E-08	3.16E-08	1.76E-08	8.26E-08	1.88E-11	2.72E-10	4.93E-09	4.93E-09	2.71E-09	1.29E-08	1.02E-11	1.47E-10	2.19E-09	2.19E-09	1.09E-09	5.63E-09
1585	259639.6	4084395	1.21E-10	1.75E-09	3.10E-08	3.10E-08	1.73E-08	8.11E-08	1.84E-11	2.67E-10	4.84E-09	4.84E-09	2.66E-09	1.26E-08	1.00E-11	1.45E-10	2.15E-09	2.15E-09	1.07E-09	5.52E-09
1586	259649.5	4084417	1.19E-10	1.73E-09	3.05E-08	3.05E-08	1.70E-08	7.98E-08	1.81E-11	2.63E-10	4.76E-09	4.76E-09	2.62E-09	1.24E-08	9.84E-12	1.42E-10	2.12E-09	2.12E-09	1.05E-09	5.44E-09
1587	259659.5	4084439	1.17E-10	1.69E-09	2.99E-08	2.99E-08	1.67E-08	7.83E-08	1.78E-11	2.58E-10	4.67E-09	4.67E-09	2.57E-09	1.22E-08	9.66E-12	1.40E-10	2.08E-09	2.08E-09	1.03E-09	5.33E-09
1588	259669.4	4084461	1.15E-10	1.66E-09	2.93E-08	2.93E-08	1.64E-08	7.68E-08	1.74E-11	2.53E-10	4.58E-09	4.58E-09	2.52E-09	1.19E-08	9.47E-12	1.37E-10	2.04E-09	2.04E-09	1.01E-09	5.23E-09
1589	259679.3	4084483	1.12E-10	1.62E-09	2.87E-08	2.87E-08	1.60E-08	7.51E-08	1.71E-11	2.48E-10	4.48E-09	4.48E-09	2.46E-09	1.17E-08	9.26E-12	1.34E-10	1.99E-09	1.99E-09	9.87E-10	5.12E-09
1590	259689.2	4084505	1.10E-10	1.59E-09	2.80E-08	2.80E-08	1.56E-08	7.34E-08	1.67E-11	2.42E-10	4.38E-09	4.38E-09	2.41E-09	1.14E-08	9.04E-12	1.31E-10	1.95E-09	1.95E-09	9.64E-10	5.00E-09
1591	259699.2	4084527	1.07E-10	1.55E-09	2.73E-08	2.73E-08	1.52E-08	7.15E-08	1.62E-11	2.36E-10	4.26E-09	4.26E-09	2.34E-09	1.11E-08	8.81E-12	1.27E-10	1.90E-09	1.90E-09	9.39E-10	4.87E-09
1592	259709.1	4084549	1.04E-10	1.50E-09	2.65E-08	2.65E-08	1.48E-08	6.94E-08	1.58E-11	2.29E-10	4.14E-09	4.14E-09	2.28E-09	1.08E-08	8.56E-12	1.24E-10	1.84E-09	1.84E-09	9.12E-10	4.73E-09
1593	259719	4084571	1.01E-10	1.45E-09	2.57E-08	2.57E-08	1.43E-08	6.72E-08	1.53E-11	2.22E-10	4.01E-09	4.01E-09	2.20E-09	1.05E-08	8.29E-12	1.20E-10	1.78E-09	1.78E-09	8.83E-10	4.58E-09
1594	259729	4084593	9.72E-11	1.41E-09	2.48E-08	2.48E-08	1.38E-08	6.50E-08	1.47E-11	2.14E-10	3.88E-09	3.88E-09	2.13E-09	1.01E-08	8.01E-12	1.16E-10	1.72E-09	1.72E-09	8.53E-10	4.43E-09
1595	259738.9	4084615	9.38E-11	1.36E-09	2.40E-08	2.40E-08	1.34E-08	6.27E-08	1.42E-11	2.07E-10	3.74E-09	3.74E-09	2.06E-09	9.76E-09	7.73E-12	1.12E-10	1.66E-09	1.66E-09	8.24E-10	4.27E-09
1596	259748.8	4084637	9.05E-11	1.31E-09	2.31E-08	2.31E-08	1.29E-08	6.05E-08	1.37E-11	1.99E-10	3.61E-09	3.61E-09	1.98E-09	9.41E-09	7.46E-12	1.08E-10	1.61E-09	1.61E-09	7.94E-10	4.12E-09
1597	259758.8	4084659	8.73E-11	1.26E-09	2.23E-08	2.23E-08	1.24E-08	5.84E-08	1.33E-11	1.92E-10	3.48E-09	3.48E-09	1.91E-09	9.09E-09	7.20E-12	1.04E-10	1.55E-09	1.55E-09	7.67E-10	3.98E-09
1598	259768.7	4084681	8.45E-11	1.22E-09	2.16E-08	2.16E-08	1.20E-08	5.65E-08	1.28E-11	1.86E-10	3.37E-09	3.37E-09	1.85E-09	8.79E-09	6.96E-12	1.01E-10	1.50E-09	1.50E-09	7.42E-10	3.85E-09
1599	259778.6	4084703	8.19E-11	1.18E-09	2.09E-08	2.09E-08	1.17E-08	5.47E-08	1.24E-11	1.80E-10	3.26E-09	3.26E-09	1.79E-09	8.52E-09	6.75E-12	9.76E-11	1.45E-09	1.45E-09	7.19E-10	3.73E-09
1600	259788.5	4084725	7.95E-11	1.15E-09	2.03E-08	2.03E-08	1.13E-08	5.32E-08	1.21E-11	1.75E-10	3.17E-09	3.17E-09	1.74E-09	8.27E-09	6.56E-12	9.48E-11	1.41E-09	1.41E-09	6.98E-10	3.62E-09
1601	259798.5	4084747	7.74E-11	1.12E-09	1.98E-08	1.98E-08	1.10E-08	5.17E-08	1.17E-11	1.71E-10	3.09E-09	3.09E-09	1.70E-09	8.05E-09	6.38E-12	9.23E-11	1.37E-09	1.37E-09	6.80E-10	3.52E-09
1602	259808.4	4084769	7.54E-11	1.09E-09	1.93E-08	1.93E-08	1.07E-08	5.04E-08	1.14E-11	1.66E-10	3.01E-09	3.01E-09	1.65E-09	7.84E-09	6.21E-12	8.99E-11	1.34E-09	1.34E-09	6.62E-10	3.43E-09
1603	259818.3	4084791	7.34E-11	1.06E-09	1.88E-08	1.88E-08	1.05E-08	4.91E-08	1.11E-11	1.62E-10	2.93E-09	2.93E-09	1.61E-09	7.64E-09	6.05E-12	8.75E-11	1.30E-09	1.30E-09	6.45E-10	3.34E-09
1604	259828.3	4084812	7.14E-11	1.03E-09	1.82E-08	1.82E-08	1.02E-08	4.78E-08	1.08E-11	1.57E-10	2.85E-09	2.85E-09	1.57E-09	7.43E-09	5.89E-12	8.52E-11	1.27E-09	1.27E-09	6.27E-10	3.25E-09
1605	259838.2	4084834	6.94E-11	1.00E-09	1.77E-08	1.77E-08	9.88E-09	4.64E-08	1.05E-11	1.53E-10	2.77E-09	2.77E-09	1.52E-09	7.22E-09	5.72E-12	8.27E-11	1.23E-09	1.23E-09	6.09E-10	3.16E-09
1606	259848.1	4084856	6.73E-11	9.73E-10	1.72E-08	1.72E-08	9.58E-09	4.50E-08	1.02E-11	1.48E-10	2.68E-09	2.68E-09	1.48E-09	7.00E-09	5.55E-12	8.02E-11	1.19E-09	1.19E-09	5.91E-10	3.06E-09
1607	258297.1	4083423	2.42E-11	3.50E-10	6.18E-09	6.18E-09	3.45E-09	1.62E-08	3.68E-12	5.34E-11	9.66E-10	9.66E-10	5.31E-10	2.52E-09	2.00E-12	2.89E-11	4.30E-10	4.30E-10	2.13E-10	1.10E-09
1608	258272.7	4083424	2.37E-11	3.43E-10	6.06E-09	6.06E-09	3.38E-09	1.59E-08	3.60E-12	5.23E-11	9.47E-10	9.47E-10	5.20E-10	2.47E-09	1.96E-12	2.83E-11	4.21E-10	4.21E-10	2.08E-10	1.08E-09
1609	258248.4	4083425	2.33E-11	3.37E-10	5.95E-09	5.95E-09	3.32E-09	1.56E-08	3.53E-12	5.13E-11	9.29E-10	9.29E-10	5.11E-10	2.42E-09	1.92E-12	2.78E-11	4.13E-10	4.13E-10	2.05E-10	1.06E-09
1610	258224.1	4083426	2.29E-11	3.31E-10	5.84E-09	5.84E-09	3.26E-09	1.53E-08	3.47E-12	5.04E-11	9.12E-10	9.12E-10	5.01E-10	2.38E-09	1.88E-12	2.73E-11	4.06E-10	4.06E-10	2.01E-10	1.04E-09
1611	258199.7	4083427	2.24E-11	3.25E-10	5.73E-09	5.73E-09	3.20E-09	1.50E-08	3.41E-12	4.95E-11	8.95E-10	8.95E-10	4.92E-10	2.33E-09	1.85E-12	2.68E-11	3.98E-10	3.98E-10	1.97E-10	1.02E-09
1612	258175.4	4083428	2.20E-11	3.19E-10	5.63E-09	5.63E-09	3.14E-09	1.47E-08	3.35E-12	4.86E-11	8.79E-10	8.79E-10	4.83E-10	2.29E-09	1.82E-12	2.63E-11	3.91E-10	3.91E-10	1.94E-10	1.00E-09
1613	258151.1	4083429	2.16E-11	3.13E-10	5.53E-09	5.53E-09	3.08E-09	1.45E-08	3.29E-12	4.77E-11	8.63E-10	8.63E-10	4.75E-10	2.25E-09	1.78E-12	2.58E-11	3.84E-10	3.84E-10	1.90E-10	9.86E-10
1614	258126.7	4083430	2.13E-11	3.07E-10	5.43E-09	5.43E-09	3.03E-09	1.42E-08	3.23E-12	4.68E-11	8.48E-10	8.48E-10	4.66E-10	2.21E-09	1.75E-12	2.53E-11	3.77E-10	3.77E-10	1.87E-10	9.68E-10
1615	258102.4	4083431	2.09E-11	3.02E-10	5.33E-09	5.33E-09	2.97E-09	1.39E-08	3.17E-12	4.60E-11	8.32E-10	8.32E-10	4.57E-10	2.17E-09	1.72E-12	2.49E-11	3.70E-10	3.70E-10	1.83E-10	9.50E-10
1616	258078.1	4083432	2.05E-11	2.96E-10	5.23E-09	5.23E-09	2.91E-09	1.37E-08	3.10E-12	4.51E-11	8.16E-10	8.16E-10	4.49E-10	2.13E-09	1.69E-12	2.44E-11	3.63E-10	3.63E-10	1.80E-10	9.32E-10
1617	258053.8	4083433	2.01E-11	2.91E-10	5.13E-09	5.13E-09	2.86E-09	1.34E-08	3.05E-12	4.43E-11	8.01E-10	8.01E-10	4.40E-10	2.09E-09	1.66E-12	2.39E-11	3.56E-10	3.56E-10	1.76E-10	9.15E-10
1618	258029.4	4083434	1.97E-11	2.85E-10	5.03E-09	5.03E-09	2.80E-09	1.32E-08	2.99E-12	4.34E-11	7.85E-10	7.85E-10	4.32E-10	2.05E-09	1.62E-12	2.35E-11	3.49E-10	3.49E-10	1.73E-10	8.97E-10
1619	258005.1	4083435	1.93E-11	2.79E-10	4.93E-09	4.93E-09	2.75E-09	1.29E-08	2.93E-12	4.26E-11	7.70E-10	7.70E-10	4.24E-10	2.01E-09	1.59E-12	2.30E-11	3.43E-10	3.43E-10	1.70E-10	8.80E-10
1620	257980.8	4083436	1.89E-11	2.74E-10	4.83E-09	4.83E-09	2.69E-09	1.27E-08	2.87E-12	4.17E-11	7.55E-10	7.55E-10	4.15E-10	1.97E-09	1.56E-12	2.26E-11	3.36E-10	3.36E-10	1.66E-10	8.62E-10
1621	257956.4	4083437	1.86E-11	2.68E-10	4.74E-09	4.74E-09	2.64E-09	1.24E-08	2.82E-12	4.09E-11	7.40E-10	7.40E-10	4.07E-10	1.93E-09	1.53E-12	2.21E-11	3.29E-10	3.29E-10	1.63E-10	8.45E-10
1622	257932.1	4083438	1.82E-11	2.63E-10	4.65E-09	4.65E-09	2.59E-09	1.22E-08	2.76E-12	4.01E-11	7.26E-10	7.26E-10	3.99E-10	1.89E-09	1.50E-12	2.17E-11	3.23E-10	3.23E-10	1.60E-10	8.29E-10
1623	257907.8	4083439	1.78E-11	2.58E-10	4.56E-09	4.56E-09	2.54E-09	1.19E-08	2.71E-12	3.93E-11	7.11E-10	7.11E-10	3.91E-10	1.86E-09	1.47E-12	2.13E-11	3.16E-10	3.16E-10	1.57E-10	8.12E-10
1624	257883.4	4083440	1.75E-11	2.53E-10	4.47E-09	4.47E-09	2.49E-09	1.17E-08	2.66E-12	3.85E-11	6.98E-10	6.98E-10	3.84E-10	1.82E-09	1.44E-12	2.09E-11	3.10E-10	3.10E-10	1.54E-10	7.97E-10
1625	257859.1	4083441	1.72E-11	2.48E-10	4.39E-09	4.39E-09	2.45E-09	1.15E-08	2.61E-12	3.78E-11	6.85E-10	6.85E-10	3.77E-10	1.79E-09	1.42E-12	2.05E-11	3.05E-10	3.05E-10	1.51E-10	7.82E-10
1626	257834.8	4083442	1.69E-11	2.44E-10	4.31E-09	4.31E-09	2.40E-09	1.13E-08	2.56E-12	3.71E-11	6.72E-10	6.72E-10	3.70E-10	1.75E-09	1.39E-12	2.01E-11	2.99E-10	2.99E-10	1.48E-10	7.68E-10
1627	257810.4	4083443	1.66E-11	2.40E-10	4.23E-09	4.23E-09	2.36E-09	1.11E-08	2.51E-12	3.65E-11	6.61E-10	6.61E-10	3.63E-10	1.72E-09	1.37E-12	1.98E-11	2.94E-10	2.94E-10	1.46E-10	7.55E-10
1628	257786.1	4083444	1.63E-11	2.35E-10	4.16E-09	4.16E-09	2.32E-09	1.09E-08	2.47E-12	3.59E-11	6.49E-10	6.49E-10	3.57E-10	1.69E-09	1.34E-12	1.94E-11	2.89E-10	2.89E-10	1.43E-10	7.41E-10
1629	257761.8	4083445	1.60E-11	2.32E-10	4.09E-09	4.09E-09	2.28E-09	1.07E-08	2.43E-12	3.53E-11	6.39E-10	6.39E-10	3.51E-10	1.67E-09	1.32E-12	1.91E-11	2.84E-10	2.84E-10	1.41E-10	7.29E-10
1630	257737.4	4083446	1.57E-11	2.28E-10	4.02E-09	4.02E-09	2.24E-09	1.05E-08	2.39E-12	3.47E-11	6.28E-10	6.28E-10	3.45E-10	1.64E-09	1.30E-12	1.88E-11	2.79E-10	2.79E-10	1.38E-10	7.17E-10
1631	257713.1	4083447	1.55E-11	2.24E-10	3.96E-09	3.96E-09	2.21E-09	1.04E-08	2.35E-12	3.42E-11	6.18E-10	6.18E-10	3.40E-10	1.61E-09	1.28E-12	1.85E-11	2.75E-10	2.75E-10	1.36E-10	7.06E-10
1632	257688.8	4083448	1.53E-11	2.21E-10	3.90E-09	3.90E-09	2.17E-09	1.02E-08	2.32E-12	3.36E-11	6.09E-10	6.09E-10	3.35E-10	1.59E-09	1.26E-12	1.82E-11	2.71E-10	2.71E-10	1.34E-10	6.95E-10
1633	257664.4	4083449	1.51E-11	2.18E-10	3.85E-09	3.85E-09	2.14E-09	1.01E-08	2.29E-12	3.32E-11	6.01E-10	6.01E-10	3.30E-10	1.57E-09	1.24E-12	1.80E-11	2.67E-10	2.67E-10	1.32E-10	6.86E-10
1634	257640.1	4083450	1.48E-11	2.15E-10	3.79E-09	3.79E-09	2.11E-09	9.93E-09	2.25E-12	3.27E-11	5.92E-10	5.92E-10	3.26E-10	1.54E-09	1.22E-12	1.77E-11	2.63E-10	2.63E-10	1.30E-10	6.76E-10
1635	257615.8	4083451	1.46E-11	2.12E-10	3.74E-09	3.74E-09	2.08E-09	9.79E-09	2.22E-12	3.22E-11	5.84E-10	5.84E-10	3.21E-10	1.52E-09	1.21E-12	1.74E-11	2.60E-10	2.60E-10	1.29E-10	6.67E-10
1636	257591.4	4083452	1.45E-11	2.09E-10	3.69E-09	3.69E-09	2.06E-09	9.66E-09	2.19E-12	3.18E-11	5.76E-10	5.76E-10	3.17E-10	1.50E-09	1.19E-12	1.72E-11	2.56E-10	2.56E-10	1.27E-10	6.58E-10
1637	257567.1	4083453	1.43E-11	2.06E-10	3.64E-09	3.64E-09	2.03E-09	9.54E-09	2.16E-12	3.14E-11	5.69E-10	5.69E-10	3.13E-10	1.48E-09	1.18E-12	1.70E-11	2.53E-10	2.53E-10	1.25E-10	6.50E-10
1638	257542.8	4083454	1.41E-11	2.04E-10	3.60E-09	3.60E-09	2.00E-09	9.41E-09	2.14E-12	3.10E-11	5.61E-10	5.61E-10	3.09E-10	1.46E-09	1.16E-12	1.68E-11	2.50E-10	2.50E-10	1.24E-10	6.41E-10
1639	257518.5	4083455	1.39E-11	2.01E-10	3.55E-09	3.55E-09	1.98E-09	9.29E-09	2.11E-12	3.06E-11	5.54E-10	5.54E-10	3.05E-10	1.45E-09	1.15E-12	1.66E-11	2.47E-10	2.47E-10	1.22E-10	6.33E-10
1640	257494.1	4083456	1.37E-11	1.99E-10	3.51E-09	3.51E-09	1.96E-09	9.18E-09	2.08E-12	3.03E-11	5.48E-10	5.48E-10	3.01E-10	1.43E-09	1.13E-12	1.64E-11	2.44E-10	2.44E-10	1.21E-10	6.26E-10
1641	257530.8	4084956	1.05E-09	1.52E-08	2.68E-07	2.68E-07	1.50E-07	7.02E-07	1.59E-10	2.31E-09	4.19E-08	4.19E-08	2.30E-08	1.09E-07	8.66E-11	1.25E-09	1.86E-08	1.86E-08	9.22E-09	4.78E-08
1642	257532.4	4085001	2.78E-09	4.02E-08	7.11E-07	7.11E-07	3.96E-07	1.86E-06	4.22E-10	6.13E-09	1.11E-07	1.11E-07	6.10E-08	2.89E-07	2.29E-10	3.32E-09	4.94E-08	4.94E-08	2.44E-08	1.27E-07
1643	257534.1	4085045	4.42E-09	6.40E-08	1.13E-06	1.13E-06	6.30E-07	2.96E-06	6.71E-10	9.74E-09	1.76E-07	1.76E-07	9.69E-08	4.60E-07	3.64E-10	5.27E-09	7.85E-08	7.85E-08	3.88E-08	2.01E-07
1644	257534.9	4085067	4.94E-09	7.15E-08	1.26E-06	1.26E-06	7.04E-07	3.31E-06	7.50E-10	1.09E-08	1.97E-07	1.97E-07	1.08E-07	5.14E-07	4.07E-10	5.89E-09	8.77E-08	8.77E-08	4.34E-08	2.25E-07
1645	257536.5	4085112	5.56E-09	8.04E-08	1.42E-06	1.42E-06	7.92E-07	3.72E-06	8.44E-10	1.22E-08	2.22E-07	2.22E-07	1.22E-07	5.78E-07	4.58E-10	6.63E-09	9.86E-08	9.86E-08	4.88E-08	2.53E-07
1646	257538.2	4085157	5.38E-09	7.78E-08	1.37E-06	1.37E-06	7.66E-07	3.60E-06	8.16E-10	1.18E-08	2.14E-07	2.14E-07	1.18E-07	5.59E-07	4.43E-10	6.41E-09	9.54E-08	9.54E-08	4.72E-08	2.45E-07
1647	257512.4	4084939	6.57E-10	9.50E-09	1.68E-07	1.68E-07	9.36E-08	4.39E-07	9.97E-11	1.45E-09	2.62E-08	2.62E-08	1.44E-08	6.84E-08	5.42E-11	7.83E-10	1.17E-08	1.17E-08	5.77E-09	2.99E-08
1648	257506.6	4084979	1.10E-09	1.59E-08	2.81E-07	2.81E-07	1.57E-07	7.37E-07	1.67E-10	2.43E-09	4.39E-08	4.39E-08	2.42E-08	1.15E-07	9.08E-11	1.31E-09	1.95E-08	1.95E-08	9.68E-09	5.02E-08

1649	257508.2	4085024	2.10E-09	3.04E-08	5.37E-07	5.37E-07	2.99E-07	1.41E-06	3.19E-10	4.63E-09	8.39E-08	8.39E-08	4.61E-08	2.19E-07	1.73E-10	2.51E-09	3.73E-08	3.73E-08	1.85E-08	9.58E-08
1650	257509.9	4085068	3.00E-09	4.34E-08	7.66E-07	7.66E-07	4.27E-07	2.01E-06	4.55E-10	6.61E-09	1.20E-07	1.20E-07	6.57E-08	3.12E-07	2.47E-10	3.57E-09	5.32E-08	5.32E-08	2.63E-08	1.37E-07
1651	257511.5	4085113	3.54E-09	5.13E-08	9.05E-07	9.05E-07	5.05E-07	2.37E-06	5.38E-10	7.81E-09	1.41E-07	1.41E-07	7.77E-08	3.69E-07	2.92E-10	4.23E-09	6.29E-08	6.29E-08	3.11E-08	1.61E-07
1652	257513.2	4085157	3.64E-09	5.26E-08	9.29E-07	9.29E-07	5.18E-07	2.43E-06	5.52E-10	8.02E-09	1.45E-07	1.45E-07	7.98E-08	3.79E-07	3.00E-10	4.34E-09	6.46E-08	6.46E-08	3.20E-08	1.66E-07
1653	257487.4	4084940	5.42E-10	7.84E-09	1.38E-07	1.38E-07	7.72E-08	3.62E-07	8.23E-11	1.19E-09	2.16E-08	2.16E-08	1.19E-08	5.64E-08	4.47E-11	6.46E-10	9.62E-09	9.62E-09	4.76E-09	2.47E-08
1654	257518	4084896	4.34E-10	6.28E-09	1.11E-07	1.11E-07	6.18E-08	2.90E-07	6.59E-11	9.57E-10	1.73E-08	1.73E-08	9.52E-09	4.52E-08	3.58E-11	5.18E-10	7.71E-09	7.71E-09	3.81E-09	1.98E-08
1655	257481.6	4084980	8.13E-10	1.18E-08	2.08E-07	2.08E-07	1.16E-07	5.44E-07	1.23E-10	1.79E-09	3.24E-08	3.24E-08	1.78E-08	8.46E-08	6.70E-11	9.70E-10	1.44E-08	1.44E-08	7.14E-09	3.70E-08
1656	257483.3	4085025	1.38E-09	2.00E-08	3.53E-07	3.53E-07	1.97E-07	9.24E-07	2.10E-10	3.04E-09	5.51E-08	5.51E-08	3.03E-08	1.44E-07	1.14E-10	1.65E-09	2.45E-08	2.45E-08	1.21E-08	6.29E-08
1657	257484.9	4085069	2.01E-09	2.91E-08	5.14E-07	5.14E-07	2.87E-07	1.35E-06	3.06E-10	4.44E-09	8.03E-08	8.03E-08	4.42E-08	2.10E-07	1.66E-10	2.40E-09	3.57E-08	3.57E-08	1.77E-08	9.17E-08
1658	257486.6	4085114	2.47E-09	3.57E-08	6.31E-07	6.31E-07	3.52E-07	1.65E-06	3.75E-10	5.45E-09	9.86E-08	9.86E-08	5.42E-08	2.57E-07	2.04E-10	2.95E-09	4.38E-08	4.38E-08	2.17E-08	1.13E-07
1659	257488.2	4085158	2.65E-09	3.84E-08	6.77E-07	6.77E-07	3.78E-07	1.77E-06	4.03E-10	5.84E-09	1.06E-07	1.06E-07	5.81E-08	2.76E-07	2.19E-10	3.16E-09	4.71E-08	4.71E-08	2.33E-08	1.21E-07
1660	257462.4	4084941	4.60E-10	6.65E-09	1.17E-07	1.17E-07	6.55E-08	3.07E-07	6.98E-11	1.01E-09	1.83E-08	1.83E-08	1.01E-08	4.78E-08	3.79E-11	5.48E-10	8.16E-09	8.16E-09	4.04E-09	2.09E-08
1661	257475.7	4084905	3.67E-10	5.31E-09	9.38E-08	9.38E-08	5.23E-08	2.46E-07	5.58E-11	8.09E-10	1.46E-08	1.46E-08	8.05E-09	3.82E-08	3.03E-11	4.38E-10	6.52E-09	6.52E-09	3.23E-09	1.67E-08
1662	257499.6	4084879	3.40E-10	4.92E-09	8.69E-08	8.69E-08	4.85E-08	2.28E-07	5.17E-11	7.50E-10	1.36E-08	1.36E-08	7.46E-09	3.54E-08	2.81E-11	4.06E-10	6.04E-09	6.04E-09	2.99E-09	1.55E-08
1663	257456.6	4084981	6.45E-10	9.33E-09	1.65E-07	1.65E-07	9.19E-08	4.32E-07	9.79E-11	1.42E-09	2.57E-08	2.57E-08	1.41E-08	6.71E-08	5.32E-11	7.69E-10	1.14E-08	1.14E-08	5.67E-09	2.94E-08
1664	257458.3	4085026	1.00E-09	1.45E-08	2.56E-07	2.56E-07	1.43E-07	6.69E-07	1.52E-10	2.21E-09	3.99E-08	3.99E-08	2.19E-08	1.04E-07	8.25E-11	1.19E-09	1.78E-08	1.78E-08	8.79E-09	4.56E-08
1665	257459.1	4085048	1.22E-09	1.77E-08	3.12E-07	3.12E-07	1.74E-07	8.17E-07	1.86E-10	2.69E-09	4.87E-08	4.87E-08	2.68E-08	1.27E-07	1.01E-10	1.46E-09	2.17E-08	2.17E-08	1.07E-08	5.57E-08
1666	257460.8	4085092	1.65E-09	2.38E-08	4.21E-07	4.21E-07	2.35E-07	1.10E-06	2.50E-10	3.63E-09	6.57E-08	6.57E-08	3.61E-08	1.71E-07	1.36E-10	1.97E-09	2.92E-08	2.92E-08	1.45E-08	7.51E-08
1667	257462.4	4085137	1.94E-09	2.81E-08	4.96E-07	4.96E-07	2.77E-07	1.30E-06	2.95E-10	4.28E-09	7.75E-08	7.75E-08	4.26E-08	2.02E-07	1.60E-10	2.32E-09	3.45E-08	3.45E-08	1.71E-08	8.85E-08
1668	257412.5	4084943	3.50E-10	5.06E-09	8.93E-08	8.93E-08	4.98E-08	2.34E-07	5.31E-11	7.71E-10	1.39E-08	1.39E-08	7.67E-09	3.64E-08	2.88E-11	4.17E-10	6.20E-09	6.20E-09	3.07E-09	1.59E-08
1669	257425.7	4084907	2.91E-10	4.21E-09	7.43E-08	7.43E-08	4.14E-08	1.95E-07	4.42E-11	6.41E-10	1.16E-08	1.16E-08	6.38E-09	3.03E-08	2.40E-11	3.47E-10	5.16E-09	5.16E-09	2.56E-09	1.33E-08
1670	257439	4084871	2.47E-10	3.57E-09	6.30E-08	6.30E-08	3.51E-08	1.65E-07	3.74E-11	5.43E-10	9.83E-09	9.83E-09	5.40E-09	2.56E-08	2.03E-11	2.94E-10	4.37E-09	4.37E-09	2.17E-09	1.12E-08
1671	257462.9	4084845	2.32E-10	3.36E-09	5.93E-08	5.93E-08	3.31E-08	1.55E-07	3.53E-11	5.12E-10	9.27E-09	9.27E-09	5.09E-09	2.42E-08	1.92E-11	2.77E-10	4.12E-09	4.12E-09	2.04E-09	1.06E-08
1672	257497.6	4084829	2.41E-10	3.49E-09	6.16E-08	6.16E-08	3.43E-08	1.61E-07	3.66E-11	5.31E-10	9.61E-09	9.61E-09	5.28E-09	2.51E-08	1.99E-11	2.87E-10	4.28E-09	4.28E-09	2.12E-09	1.10E-08
1673	257406.7	4084983	4.54E-10	6.57E-09	1.16E-07	1.16E-07	6.47E-08	3.04E-07	6.89E-11	1.00E-09	1.81E-08	1.81E-08	9.96E-09	4.73E-08	3.74E-11	5.42E-10	8.06E-09	8.06E-09	3.99E-09	2.07E-08
1674	257408.3	4085027	6.28E-10	9.08E-09	1.60E-07	1.60E-07	8.94E-08	4.20E-07	9.53E-11	1.38E-09	2.50E-08	2.50E-08	1.38E-08	6.53E-08	5.17E-11	7.48E-10	1.11E-08	1.11E-08	5.51E-09	2.86E-08
1675	257410	4085072	8.54E-10	1.24E-08	2.18E-07	2.18E-07	1.22E-07	5.71E-07	1.30E-10	1.88E-09	3.41E-08	3.41E-08	1.87E-08	8.89E-08	7.04E-11	1.02E-09	1.52E-08	1.52E-08	7.50E-09	3.89E-08
1676	257411.6	4085117	1.09E-09	1.58E-08	2.78E-07	2.78E-07	1.55E-07	7.29E-07	1.65E-10	2.40E-09	4.35E-08	4.35E-08	2.39E-08	1.13E-07	8.98E-11	1.30E-09	1.93E-08	1.93E-08	9.57E-09	4.96E-08
1677	257413.3	4085161	1.26E-09	1.83E-08	3.23E-07	3.23E-07	1.80E-07	8.45E-07	1.92E-10	2.78E-09	5.04E-08	5.04E-08	2.77E-08	1.31E-07	1.04E-10	1.51E-09	2.24E-08	2.24E-08	1.11E-08	5.75E-08
1678	257363.4	4084942	2.76E-10	4.00E-09	7.06E-08	7.06E-08	3.94E-08	1.85E-07	4.19E-11	6.09E-10	1.10E-08	1.10E-08	6.06E-09	2.88E-08	2.28E-11	3.30E-10	4.90E-09	4.90E-09	2.43E-09	1.26E-08
1679	257378.6	4084901	2.31E-10	3.34E-09	5.90E-08	5.90E-08	3.29E-08	1.55E-07	3.51E-11	5.09E-10	9.22E-09	9.22E-09	5.07E-09	2.40E-08	1.91E-11	2.76E-10	4.10E-09	4.10E-09	2.03E-09	1.05E-08
1680	257393.7	4084860	1.97E-10	2.85E-09	5.03E-08	5.03E-08	2.80E-08	1.32E-07	2.99E-11	4.34E-10	7.85E-09	7.85E-09	4.31E-09	2.05E-08	1.62E-11	2.35E-10	3.49E-09	3.49E-09	1.73E-09	8.96E-09
1681	257428.7	4084810	1.73E-10	2.50E-09	4.41E-08	4.41E-08	2.46E-08	1.15E-07	2.62E-11	3.80E-10	6.88E-09	6.88E-09	3.78E-09	1.80E-08	1.42E-11	2.06E-10	3.06E-09	3.06E-09	1.52E-09	7.86E-09
1682	257468.3	4084792	1.78E-10	2.57E-09	4.54E-08	4.54E-08	2.53E-08	1.19E-07	2.70E-11	3.92E-10	7.10E-09	7.10E-09	3.90E-09	1.85E-08	1.47E-11	2.12E-10	3.16E-09	3.16E-09	1.56E-09	8.10E-09
1683	257507.9	4084774	1.84E-10	2.66E-09	4.70E-08	4.70E-08	2.62E-08	1.23E-07	2.79E-11	4.05E-10	7.33E-09	7.33E-09	4.03E-09	1.91E-08	1.52E-11	2.19E-10	3.26E-09	3.26E-09	1.62E-09	8.38E-09
1684	257356.7	4084985	3.47E-10	5.03E-09	8.87E-08	8.87E-08	4.95E-08	2.32E-07	5.27E-11	7.66E-10	1.39E-08	1.39E-08	7.62E-09	3.61E-08	2.86E-11	4.14E-10	6.17E-09	6.17E-09	3.05E-09	1.58E-08
1685	257358.3	4085029	4.50E-10	6.51E-09	1.15E-07	1.15E-07	6.41E-08	3.01E-07	6.83E-11	9.92E-10	1.80E-08	1.80E-08	9.87E-09	4.68E-08	3.71E-11	5.37E-10	7.99E-09	7.99E-09	3.95E-09	2.05E-08
1686	257360	4085074	5.76E-10	8.33E-09	1.47E-07	1.47E-07	8.20E-08	3.85E-07	8.74E-11	1.27E-09	2.30E-08	2.30E-08	1.26E-08	5.99E-08	4.75E-11	6.87E-10	1.02E-08	1.02E-08	5.06E-09	2.62E-08
1687	257361.7	4085118	7.20E-10	1.04E-08	1.84E-07	1.84E-07	1.03E-07	4.81E-07	1.09E-10	1.59E-09	2.87E-08	2.87E-08	1.58E-08	7.49E-08	5.94E-11	8.58E-10	1.28E-08	1.28E-08	6.32E-09	3.28E-08
1688	257363.3	4085163	8.51E-10	1.23E-08	2.17E-07	2.17E-07	1.21E-07	5.69E-07	1.29E-10	1.88E-09	3.39E-08	3.39E-08	1.87E-08	8.86E-08	7.02E-11	1.01E-09	1.51E-08	1.51E-08	7.48E-09	3.88E-08
1689	257313.3	4084944	2.30E-10	3.32E-09	5.86E-08	5.86E-08	3.27E-08	1.54E-07	3.48E-11	5.06E-10	9.16E-09	9.16E-09	5.03E-09	2.39E-08	1.89E-11	2.74E-10	4.07E-09	4.07E-09	2.02E-09	1.05E-08
1690	257328	4084905	1.96E-10	2.84E-09	5.02E-08	5.02E-08	2.80E-08	1.31E-07	2.98E-11	4.33E-10	7.83E-09	7.83E-09	4.31E-09	2.04E-08	1.62E-11	2.34E-10	3.49E-09	3.49E-09	1.73E-09	8.95E-09
1691	257342.7	4084865	1.71E-10	2.47E-09	4.36E-08	4.36E-08	2.43E-08	1.14E-07	2.59E-11	3.76E-10	6.80E-09	6.80E-09	3.74E-09	1.77E-08	1.41E-11	2.03E-10	3.03E-09	3.03E-09	1.50E-09	7.77E-09
1692	257357.5	4084825	1.50E-10	2.17E-09	3.83E-08	3.83E-08	2.14E-08	1.00E-07	2.28E-11	3.31E-10	5.98E-09	5.98E-09	3.29E-09	1.56E-08	1.24E-11	1.79E-10	2.66E-09	2.66E-09	1.32E-09	6.83E-09
1693	257391.4	4084776	1.35E-10	1.95E-09	3.44E-08	3.44E-08	1.92E-08	9.00E-08	2.04E-11	2.96E-10	5.37E-09	5.37E-09	2.95E-09	1.40E-08	1.11E-11	1.60E-10	2.39E-09	2.39E-09	1.18E-09	6.13E-09
1694	257429.9	4084759	1.38E-10	1.99E-09	3.52E-08	3.52E-08	1.96E-08	9.21E-08	2.09E-11	3.03E-10	5.49E-09	5.49E-09	3.02E-09	1.43E-08	1.14E-11	1.64E-10	2.44E-09	2.44E-09	1.21E-09	6.27E-09
1695	257468.5	4084741	1.41E-10	2.04E-09	3.59E-08	3.59E-08	2.00E-08	9.41E-08	2.14E-11	3.10E-10	5.61E-09	5.61E-09	3.09E-09	1.46E-08	1.16E-11	1.68E-10	2.50E-09	2.50E-09	1.24E-09	6.41E-09
1696	257507	4084723	1.44E-10	2.09E-09	3.69E-08	3.69E-08	2.06E-08	9.66E-08	2.19E-11	3.18E-10	5.76E-09	5.76E-09	3.17E-09	1.50E-08	1.19E-11	1.72E-10	2.56E-09	2.56E-09	1.27E-09	6.58E-09
1697	257306.7	4084987	2.80E-10	4.05E-09	7.14E-08	7.14E-08	3.98E-08	1.87E-07	4.25E-11	6.16E-10	1.12E-08	1.12E-08	6.13E-09	2.91E-08	2.31E-11	3.34E-10	4.96E-09	4.96E-09	2.46E-09	1.27E-08
1698	257307.6	4085009	3.13E-10	4.53E-09	7.99E-08	7.99E-08	4.46E-08	2.09E-07	4.75E-11	6.90E-10	1.25E-08	1.25E-08	6.86E-09	3.26E-08	2.58E-11	3.73E-10	5.55E-09	5.55E-09	2.75E-09	1.43E-08
1699	257309.2	4085053	3.85E-10	5.57E-09	9.83E-08	9.83E-08	5.48E-08	2.57E-07	5.84E-11	8.48E-10	1.53E-08	1.53E-08	8.44E-09	4.00E-08	3.17E-11	4.59E-10	6.83E-09	6.83E-09	3.38E-09	1.75E-08
1700	257310.9	4085098	4.68E-10	6.76E-09	1.19E-07	1.19E-07	6.66E-08	3.13E-07	7.10E-11	1.03E-09	1.86E-08	1.86E-08	1.03E-08	4.86E-08	3.85E-11	5.57E-10	8.30E-09	8.30E-09	4.11E-09	2.13E-08
1701	257312.5	4085143	5.60E-10	8.09E-09	1.43E-07	1.43E-07	7.97E-08	3.74E-07	8.49E-11	1.23E-09	2.23E-08	2.23E-08	1.23E-08	5.82E-08	4.61E-11	6.67E-10	9.93E-09	9.93E-09	4.91E-09	2.55E-08
1702	257263.2	4084947	1.96E-10	2.83E-09	5.00E-08	5.00E-08	2.79E-08	1.31E-07	2.97E-11	4.31E-10	7.81E-09	7.81E-09	4.29E-09	2.04E-08	1.61E-11	2.33E-10	3.47E-09	3.47E-09	1.72E-09	8.92E-09
1703	257277.6	4084908	1.70E-10	2.46E-09	4.34E-08	4.34E-08	2.42E-08	1.14E-07	2.58E-11	3.74E-10	6.78E-09	6.78E-09	3.73E-09	1.77E-08	1.40E-11	2.03E-10	3.01E-09	3.01E-09	1.49E-09	7.74E-09
1704	257292.1	4084869	1.49E-10	2.16E-09	3.81E-08	3.81E-08	2.13E-08	9.99E-08	2.27E-11	3.29E-10	5.96E-09	5.96E-09	3.27E-09	1.55E-08	1.23E-11	1.78E-10	2.65E-09	2.65E-09	1.31E-09	6.80E-09
1705	257306.6	4084829	1.33E-10	1.92E-09	3.40E-08	3.40E-08	1.89E-08	8.89E-08	2.02E-11	2.93E-10	5.30E-09	5.30E-09	2.92E-09	1.38E-08	1.10E-11	1.59E-10	2.36E-09	2.36E-09	1.17E-09	6.06E-09
1706	257321	4084790	1.20E-10	1.73E-09	3.05E-08	3.05E-08	1.70E-08	7.99E-08	1.81E-11	2.63E-10	4.77E-09	4.77E-09	2.62E-09	1.24E-08	9.85E-12	1.42E-10	2.12E-09	2.12E-09	1.05E-09	5.44E-09
1707	257354.4	4084743	1.09E-10	1.57E-09	2.78E-08	2.78E-08	1.55E-08	7.27E-08	1.65E-11	2.40E-10	4.34E-09	4.34E-09	2.38E-09	1.13E-08	8.96E-12	1.30E-10	1.93E-09	1.93E-09	9.55E-10	4.95E-09
1708	257392.2	4084725	1.11E-10	1.60E-09	2.83E-08	2.83E-08	1.58E-08	7.40E-08	1.68E-11	2.44E-10	4.42E-09	4.42E-09	2.43E-09	1.15E-08	9.13E-12	1.32E-10	1.96E-09	1.96E-09	9.73E-10	5.04E-09
1709	257430	4084708	1.13E-10	1.63E-09	2.87E-08	2.87E-08	1.60E-08	7.53E-08	1.71E-11	2.48E-10	4.49E-09	4.49E-09	2.47E-09	1.17E-08	9.28E-12	1.34E-10	2.00E-09	2.00E-09	9.89E-10	5.13E-09
1710	257467.8	4084690	1.14E-10	1.66E-09	2.92E-08	2.92E-08	1.63E-08	7.66E-08	1.74E-11	2.52E-10	4.57E-09	4.57E-09	2.51E-09	1.19E-08	9.44E-12	1.36E-10	2.03E-09	2.03E-09	1.01E-09	5.21E-09
1711	257505.6	4084673	1.17E-10	1.69E-09	2.99E-08	2.99E-08	1.67E-08	7.83E-08	1.78E-11	2.58E-10	4.67E-09	4.67E-09	2.57E-09	1.22E-08	9.65E-12	1.40E-10	2.08E-09	2.08E-09	1.03E-09	5.33E-09
1712	257256.8	4084988	2.33E-10	3.37E-09	5.96E-08	5.96E-08	3.32E-08	1.56E-07	3.54E-11	5.14E-10	9.30E-09	9.30E-09	5.11E-09	2.43E-08	1.92E-11	2.78E-10	4.14E-09	4.14E-09	2.05E-09	1.06E-08
1713	257258.4	4085033	2.82E-10	4.07E-09	7.19E-08	7.19E-08	4.01E-08	1.88E-07	4.28E-11	6.21E-10	1.12E-08	1.12E-08	6.18E-09	2.93E-08	2.32E-11	3.36E-10	5.00E-09	5.00E-09	2.47E-09	1.28E-08
1714	257260.1	4085078	3.33E-10	4.81E-09	8.49E-08	8.49E-08	4.74E-08	2.22E-07	5.05E-11	7.33E-10	1.33E-08	1.33E-08	7.29E-09	3.46E-08	2.74E-11	3.97E-10	5.90E-09	5.90E-09	2.92E-09	1.51E-08
1715	257261.7	4085122	3.89E-10	5.62E-09	9.93E-08	9.93E-08	5.53E-08	2.60E-07	5.90E-11	8.56E-10	1.55E-08	1.55E-08	8.52E-09	4.04E-08	3.20E-11	4.63E-10	6.90E-09	6.90E-09	3.41E-09	1.77E-08
1716	257263.4	4085167	4.51E-10	6.53E-09	1.15E-07	1.15E-07	6.43E-08	3.02E-07	6.85E-11	9.95E-10	1.80E-08	1.80E-08	9.90E-09	4.70E-08	3.72E-11	5.38E-10	8.01E-09	8.01E-09	3.96E-09	2.06E-08
1717	257163.6	4084949	1.50E-10	2.17E-09	3.83E-08	3.83E-08	2.14E-08	1.00E-07	2.28E-11	3.31E-10	5.98E-09	5.98E-09	3.29E-09	1.56E-08	1.24E-11	1.79E-10	2.66E-09	2.66E-09	1.32E-09	6.83E-09
1718	257178.7	4084909	1.32E-10	1.91E-09	3.36E-08	3.36E-08	1.88E-08	8.81E-08	2.00E-11	2.90E-10	5.25E-09	5.25E-09	2.89E-09	1.37E-08	1.09E-11	1.57E-10	2.34E-09	2.34E-09	1.16E-09	6.00E-09
1719	257193.9	4084868	1.17E-10	1.69E-09	2.98E-08	2.98E-08	1.66E-08	7.80E-08	1.77E-11	2.57E-10	4.65E-09	4.65E-09	2.56E-09	1.21E-08	9.61E-12	1.39E-10	2.07E-09	2.07E-09	1.02E-09	5.31E-09
1720	257209	4084827	1.05E-10	1.52E-09	2.68E-08	2.68E-08	1.49E-08	7.00E-08	1.59E-11	2.31E-10	4.18E-09	4.18E-09	2.30E-09	1.09E-08	8.63E-12	1.25E-10	1.86E-09	1.86E-09	9.20E-10	4.77E-09
1721	257224.2	4084786	9.51E-11	1.38E-09	2.43E-08	2.43E-08	1.35E-08	6.36E-08	1.44E-11	2.09E-10	3.79E-09	3.79E-09	2.08E-09	9.89E-09	7.84E-12	1.13E-10	1.69E-09	1.69E-09	8.35E-10	4.33E-09
1722	257239.3	4084745	8.69E-11	1.26E-09	2.22E-08	2.22E-08	1.24E-08	5.81E-08	1.32E-11	1.91E-10	3.46E-09	3.46E-09	1.90E-09	9.04E-09	7.16E-12	1.04E-10	1.54E-09	1.54E-09	7.63E-10	3.96E-09
1723	257254.5	4084704	7.94E-11	1.15E-09	2.03E-08	2.03E-08	1.13E-08	5.31E-08	1.20E-11	1.75E-10	3.17E-09	3.17E-09	1.74E-09	8.26E-09	6.54E-12	9.47E-11	1.41E-09	1.41E-09	6.97E-10	3.62E-09
1724	257281.9	4084674	7.64E-11	1.10E-09	1.95E-08	1.95E-08	1.09E-08	5.11E-08	1.16E-11	1.68E-10	3.04E-09	3.04E-09	1.67E-09	7.94E-09	6.29E-12	9.10E-11	1.35E-09	1.35E-09	6.71E-10	3.48E-09
1725	257321.5	4084656	7.74E-11	1.12E-09	1.98E-08	1.98E-08	1.10E-08	5.17E-08	1.17E-11	1.71E-10	3.09E-09	3.09E-09	1.70E-09	8.05E-09	6.38E-12	9.23E-11	1.37E-09	1.37E-09	6.80E-10	3.52E-09
1726	257361.1	4084638	7.84E-11	1.13E-09	2.00E-08	2.00E-08	1.12E-08	5.24E-08	1.19E-11	1.73E-10	3.13E-09	3.13E-09	1.72E-09	8.16E-09	6.46E-12	9.35E-11	1.39E-09	1.39E-09	6.89E-10	3.57E-09
1727	257400.7	4084619	7.94E-11	1.15E-09	2.03E-08	2.03E-08	1.13E-08	5.31E-08	1.20E-11	1.75E-10	3.17E-09	3.17E-09	1.74E-09	8.26E-09	6.54E-12	9.47E-11	1.41E-09	1.41E-09	6.97E-10	3.62E-09
1728	257440.3	4084601	8.05E-11	1.16E-09	2.05E-08	2.05E-08	1.15E-08	5.38E-08	1.22E-11	1.77E-10	3.21E-09	3.21E-09	1.76E-09	8.37E-09	6.63E-12	9.59E-11	1.43E-09	1.43E-09	7.07E-10	3.66E-09
1729	257479.9	4084583	8.19E-11	1.19E-09	2.09E-08	2.09E-08	1.17E-08	5.48E-08	1.24E-11	1.81E-10	3.27E-09	3.27E-09	1.80E-09	8.52E-09	6.75E-12	9.77E-11	1.45E-09	1.45E-09	7.20E-10	3.73E-09
1730	257156.8	4084992	1.74E-10	2.51E-09	4.44E-08	4.44E-08	2.48E-08	1.16E-07	2.64E-11	3.83E-10	6.93E-09	6.93E-09	3.81E-09	1.81E-08	1.43E-11	2.07E-10	3.09E-09	3.09E-09	1.53E-09	7.92E-09
1731	257158.5	4085037	2.02E-10	2.92E-09	5.16E-08	5.16E-08	2.88E-08	1.35E-07	3.07E-11	4.45E-10	8.06E-09	8.06E-09	4.43E-09	2.10E-08	1.67E-11	2.41E-10	3.59E-09	3.59E-09	1.77E-09	9.20E-09
1732	257160.1	4085081	2.29E-10	3.31E-09	5.84E-08	5.84E-08	3.26E-08	1.53E-07	3.47E-11	5.04E-10	9.12E-09	9.12E-09	5.01E-09	2.38E-08	1.88E-11	2.73E-10	4.06E-09	4.06E-09	2.01E-09	1.04E-08
1733	257161.8	4085126	2.54E-10	3.68E-09	6.49E-08	6.49E-08	3.62E-08	1.70E-07	3.86E-11	5.60E-10	1.01E-08	1.01E-08	5.57E-09	2.64E-08	2.09E-11	3.03E-10	4.51E-09	4.51E-09	2.23E-09	1.16E-08
1734	257162.6	4085148	2.68E-10	3.87E-09	6.84E-08	6.84E-08	3.81E-08	1.79E-07	4.06E-11	5.90E-10	1.07E-08	1.07E-08	5.87E-09	2.78E-08	2.21E-11	3.19E-10	4.75E-09	4.75E-09	2.35E-09	1.22E-08
1735	257063.4	4084954	1.22E-10	1.76E-09	3.11E-08	3.11E-08	1.73E-08	8.14E-08	1.85E-11	2.68E-10	4.85E-09	4.85E-09	2.67E-09	1.27E-08	1.00E-11	1.45E-10	2.16E-09	2.16E-09	1.07E-09	5.54E-09
1736	257078.2	4084914	1.09E-10	1.57E-09	2.78E-08	2.78E-08	1.55E-08	7.28E-08	1.65E-11	2.40E-10	4.34E-09	4.34E-09	2.39E-09	1.13E-08	8.97E-12	1.30E-10	1.93E-09	1.93E-09	9.56E-10	4.96E-09
1737	257092.9	4084874	9.76E-11	1.41E-09	2.49E-08	2.49E-08	1.39E-08	6.52E-08	1.48E-11	2.15E-10	3.89E-09	3.89E-09	2.14E-09	1.02E-08	8.04E-12	1.16E-10	1.73E-09	1.73E-09	8.57E-10	4.44E-09
1738	257107.6	4084834	8.83E-11	1.28E-09	2.25E-08	2.25E-08	1.26E-08	5.90E-08	1.34E-11	1.94E-10	3.52E-09	3.52E-09	1.94E-09	9.18E-09	7.28E-12	1.05E-10	1.57E-09	1.57E-09	7.75E-10	4.02E-09
1739	257122.4	4084795	8.07E-11	1.17E-09	2.06E-08	2.06E-08	1.15E-08	5.39E-08	1.22E-11	1.78E-10	3.22E-09	3.22E-09	1.77E-09	8.39E-09	6.65E-12	9.62E-11	1.43E-09	1.43E-09	7.08E-10	3.67E-09
1740	257137.1	4084755	7.43E-11	1.07E-09	1.90E-08	1.90E-08	1.06E-08	4.97E-08	1.13E-11	1.64E-10	2.96E-09	2.96E-09	1.63E-09	7.73E-09	6.12E-12	8.85E-11	1.32E-09	1.32E-09	6.52E-10	3.38E-09
1741	257151.8	4084715	6.88E-11	9.95E-10	1.76E-08	1.76E-08	9.80E-09	4.60E-08	1.04E-11	1.52E-10	2.74E-09	2.74E-09	1.51E-09	7.16E-09	5.67E-12	8.20E-11	1.22E-09	1.22E-09	6.04E-10	3.13E-09
1742	257166.6	4084675	6.39E-11	9.24E-10	1.63E-08	1.63E-08	9.10E-09	4.27E-08	9.70E-12	1.41E-10	2.55E-09	2.55E-09	1.40E-09	6.65E-09	5.27E-12	7.62E-11	1.13E-09	1.13E-09	5.61E-10	2.91E-09
1743	257181.3	4084635	5.93E-11	8.57E-10	1.51E-08	1.51E-08	8.44E-09	3.96E-08	8.99E-12	1.31E-10	2.36E-09	2.36E-09	1.30E-09	6.17E-09	4.88E-12	7.06E-11	1.05E-09	1.05E-09	5.20E-10	2.70E-09
1744	257207.9	4084607	5.73E-11	8.29E-10	1.46E-08	1.46E-08	8.16E-09	3.83E-08	8.70E-12	1.26E-10	2.28E-09	2.28E-09	1.26E-09	5.96E-09	4.72E-12	6.83E-11	1.02E-09	1.02E-09	5.03E-10	2.61E-09
1745	257246.4	4084589	5.79E-11	8.37E-10	1.48E-08	1.48E-08	8.24E-09	3.87E-08	8.78E-12	1.28E-10	2.31E-09	2.31E-09	1.27E-09	6.02E-09	4.77E-12	6.90E-11	1.03E-09	1.03E-09	5.08E-10	2.64E-09
1746	257284.9	4084571	5.86E-11	8.48E-10	1.50E-08	1.50E-08	8.35E-09	3.92E-08	8.90E-12	1.29E-10	2.34E-09	2.34E-09	1.29E-09	6.10E-09	4.83E-12	6.99E-11	1.04E-09	1.04E-09	5.15E-10	2.67E-09
1747	257323.4	4084553	5.94E-11	8.60E-10	1.52E-08	1.52E-08	8.46E-09	3.97E-08	9.02E-12	1.31E-10	2.37E-09	2.37E-09	1.30E-09	6.18E-09	4.90E-12	7.09E-11	1.05E-09	1.05E-09	5.22E-10	2.71E-09
1748	257361.9	4084536	6.02E-11	8.70E-10	1.54E-08	1.54E-08	8.57E-09	4.02E-08	9.13E-12	1.33E-10	2.40E-09	2.40E-09	1.32E-09	6.26E-09	4.96E-12	7.18E-11	1.07E-09	1.07E-09	5.29E-10	2.74E-09
1749	257400.4	4084518	6.08E-11	8.80E-10	1.55E-08	1.55E-08	8.66E-09	4.07E-08	9.23E-12	1.34E-10	2.43E-09	2.43E-09	1.33E-09	6.33E-09	5.02E-12	7.25E-11	1.08E-09	1.08E-09	5.34E-10	2.77E-09
1750	257438.9	4084500	6.15E-11	8.90E-10	1.57E-08	1.57E-08	8.76E-09	4.11E-08	9.34E-12	1.36E-10	2.45E-09	2.45E-09	1.35E-09	6.40E-09	5.07E-12	7.34E-11	1.09E-09	1.09E-09	5.40E-10	2.80E-09
1751	257477.4	4084482	6.24E-11	9.02E-10	1.59E-08	1.59E-08	8.88E-09	4.17E-08	9.46E-12	1.37E-10	2.49E-09	2.49E-09	1.37E-09	6.49E-09	5.14E-12	7.43E-11	1.11E-09	1.11E-09	5.48E-10	2.84E-09
1752	257056.9	4084996	1.38E-10	2.00E-09	3.52E-08	3.52E-08	1.96E-08	9.23E-08	2.09E-11	3.04E-10	5.50E-09	5.50E-09	3.03E-09	1.44E-08	1.14E-11	1.65E-10	2.45E-09	2.45E-09	1.21E-09	6.28E-09
1753	257057.7	4085018	1.47E-10	2.13E-09	3.77E-08	3.77E-08	2.10E-08	9.86E-08	2.24E-11	3.25E-10	5.88E-09	5.88E-09	3.23E-09	1.53E-08	1.22E-11	1.76E-10	2.62E-09	2.62E-09	1.30E-09	6.72E-09
1754	257059.4	4085063	1.65E-10	2.38E-09	4.21E-08	4.21E-08	2.35E-08	1.10E-07	2.50E-11	3.63E-10	6.57E-09	6.57E-09	3.61E-09	1.71E-08	1.36E-11	1.96E-10	2.92E-09	2.92E-09	1.45E-09	7.51E-09
1755	257061	4085107	1.80E-10	2.60E-09	4.59E-08	4.59E-08	2.56E-08	1.20E-07	2.72E-11	3.96E-10	7.16E-09	7.16E-09	3.94E-09	1.87E-08	1.48E-11	2.14E-10	3.19E-09	3.19E-09	1.58E-09	8.18E-09
1756	257062.7	4085152	1.93E-10	2.79E-09	4.93E-08	4.93E-08	2.75E-08	1.29E-07	2.93E-11	4.25E-10	7.69E-09	7.69E-09	4.23E-09	2.01E-08	1.59E-11	2.30E-10	3.42E-09	3.42E-09	1.69E-09	8.78E-09
1757	256963.7	4084957	1.02E-10	1.48E-09	2.61E-08	2.61E-08	1.45E-08	6.83E-08	1.55E-11	2.25E-10	4.07E-09	4.07E-09	2.24E-09	1.06E-08	8.42E-12	1.22E-10	1.81E-09	1.81E-09	8.97E-10	4.65E-09
1758	256978.9	4084916	9.19E-11	1.33E-09	2.35E-08	2.35E-08	1.31E-08	6.15E-08	1.40E-11	2.03E-10	3.67E-09	3.67E-09	2.02E-09	9.57E-09	7.58E-12	1.10E-10	1.63E-09	1.63E-09	8.07E-10	4.19E-09
1759	256994	4084875	8.29E-11	1.20E-09	2.12E-08	2.12E-08	1.18E-08	5.55E-08	1.26E-11	1.83E-10	3.31E-09	3.31E-09	1.82E-09	8.63E-09	6.84E-12	9.89E-11	1.47E-09	1.47E-09	7.28E-10	3.78E-09
1760	257009.2	4084834	7.56E-11	1.09E-09	1.93E-08	1.93E-08	1.08E-08	5.05E-08	1.15E-11	1.66E-10	3.01E-09	3.01E-09	1.66E-09	7.86E-09	6.23E-12	9.01E-11	1.34E-09	1.34E-09	6.64E-10	3.44E-09
1761	257024.3	4084793	6.93E-11	1.00E-09	1.77E-08	1.77E-08	9.87E-09	4.63E-08	1.05E-11	1.53E-10	2.76E-09	2.76E-09	1.52E-09	7.21E-09	5.71E-12	8.26E-11	1.23E-09	1.23E-09	6.08E-10	3.16E-09
1762	257039.5	4084752	6.38E-11	9.23E-10	1.63E-08	1.63E-08	9.08E-09	4.26E-08	9.68E-12	1.41E-10	2.54E-09	2.54E-09	1.40E-09	6.64E-09	5.26E-12	7.60E-11	1.13E-09	1.13E-09	5.60E-10	2.90E-09
1763	257054.6	4084711	5.91E-11	8.54E-10	1.51E-08	1.51E-08	8.41E-09	3.95E-08	8.97E-12	1.30E-10	2.36E-09	2.36E-09	1.30E-09	6.15E-09	4.87E-12	7.04E-11	1.05E-09	1.05E-09	5.19E-10	2.69E-09
1764	257069.8	4084670	5.50E-11	7.96E-10	1.41E-08	1.41E-08	7.84E-09	3.68E-08	8.35E-12	1.21E-10	2.20E-09	2.20E-09	1.21E-09	5.73E-09	4.54E-12	6.56E-11	9.77E-10	9.77E-10	4.83E-10	2.51E-09
1765	257084.9	4084630	5.15E-11	7.45E-10	1.32E-08	1.32E-08	7.33E-09	3.44E-08	7.82E-12	1.13E-10	2.05E-09	2.05E-09	1.13E-09	5.36E-09	4.25E-12	6.14E-11	9.14E-10	9.14E-10	4.52E-10	2.35E-09
1766	257100.1	4084589	4.82E-11	6.97E-10	1.23E-08	1.23E-08	6.86E-09	3.22E-08	7.31E-12	1.06E-10	1.92E-09	1.92E-09	1.06E-09	5.01E-09	3.97E-12	5.74E-11	8.55E-10	8.55E-10	4.23E-10	2.19E-09

1767	257135	4084539	4.52E-11	6.54E-10	1.15E-08	1.15E-08	6.44E-09	3.02E-08	6.86E-12	9.96E-11	1.80E-09	1.80E-09	9.91E-10	4.70E-09	3.73E-12	5.39E-11	8.02E-10	8.02E-10	3.97E-10	2.06E-09
1768	257174.6	4084520	4.57E-11	6.60E-10	1.17E-08	1.17E-08	6.50E-09	3.05E-08	6.93E-12	1.01E-10	1.82E-09	1.82E-09	1.00E-09	4.75E-09	3.76E-12	5.44E-11	8.10E-10	8.10E-10	4.01E-10	2.08E-09
1769	257214.2	4084502	4.63E-11	6.70E-10	1.18E-08	1.18E-08	6.59E-09	3.10E-08	7.03E-12	1.02E-10	1.85E-09	1.85E-09	1.02E-09	4.82E-09	3.82E-12	5.52E-11	8.22E-10	8.22E-10	4.07E-10	2.11E-09
1770	257253.8	4084484	4.71E-11	6.81E-10	1.20E-08	1.20E-08	6.70E-09	3.15E-08	7.15E-12	1.04E-10	1.88E-09	1.88E-09	1.03E-09	4.90E-09	3.88E-12	5.61E-11	8.35E-10	8.35E-10	4.13E-10	2.14E-09
1771	257293.5	4084465	4.78E-11	6.91E-10	1.22E-08	1.22E-08	6.81E-09	3.20E-08	7.25E-12	1.05E-10	1.91E-09	1.91E-09	1.05E-09	4.97E-09	3.94E-12	5.70E-11	8.48E-10	8.48E-10	4.20E-10	2.18E-09
1772	257333.1	4084447	4.83E-11	6.99E-10	1.23E-08	1.23E-08	6.88E-09	3.23E-08	7.33E-12	1.06E-10	1.93E-09	1.93E-09	1.06E-09	5.03E-09	3.98E-12	5.76E-11	8.57E-10	8.57E-10	4.24E-10	2.20E-09
1773	257372.7	4084429	4.86E-11	7.03E-10	1.24E-08	1.24E-08	6.92E-09	3.25E-08	7.38E-12	1.07E-10	1.94E-09	1.94E-09	1.07E-09	5.06E-09	4.01E-12	5.80E-11	8.63E-10	8.63E-10	4.27E-10	2.21E-09
1774	257412.3	4084410	4.88E-11	7.05E-10	1.25E-08	1.25E-08	6.94E-09	3.26E-08	7.40E-12	1.07E-10	1.94E-09	1.94E-09	1.07E-09	5.07E-09	4.02E-12	5.81E-11	8.65E-10	8.65E-10	4.28E-10	2.22E-09
1775	257451.9	4084392	4.89E-11	7.07E-10	1.25E-08	1.25E-08	6.96E-09	3.27E-08	7.42E-12	1.08E-10	1.95E-09	1.95E-09	1.07E-09	5.09E-09	4.03E-12	5.83E-11	8.67E-10	8.67E-10	4.29E-10	2.23E-09
1776	257491.5	4084374	4.91E-11	7.10E-10	1.25E-08	1.25E-08	6.99E-09	3.28E-08	7.45E-12	1.08E-10	1.96E-09	1.96E-09	1.08E-09	5.10E-09	4.04E-12	5.85E-11	8.71E-10	8.71E-10	4.31E-10	2.23E-09
1777	256957	4085000	1.14E-10	1.65E-09	2.92E-08	2.92E-08	1.63E-08	7.64E-08	1.73E-11	2.52E-10	4.56E-09	4.56E-09	2.50E-09	1.19E-08	9.42E-12	1.36E-10	2.03E-09	2.03E-09	1.00E-09	5.20E-09
1778	256958.6	4085044	1.27E-10	1.84E-09	3.25E-08	3.25E-08	1.81E-08	8.51E-08	1.93E-11	2.80E-10	5.07E-09	5.07E-09	2.79E-09	1.32E-08	1.05E-11	1.52E-10	2.26E-09	2.26E-09	1.12E-09	5.79E-09
1779	256960.3	4085089	1.38E-10	1.99E-09	3.52E-08	3.52E-08	1.96E-08	9.21E-08	2.09E-11	3.04E-10	5.50E-09	5.50E-09	3.02E-09	1.43E-08	1.14E-11	1.64E-10	2.45E-09	2.45E-09	1.21E-09	6.28E-09
1780	256961.9	4085133	1.46E-10	2.11E-09	3.73E-08	3.73E-08	2.08E-08	9.77E-08	2.22E-11	3.22E-10	5.83E-09	5.83E-09	3.20E-09	1.52E-08	1.20E-11	1.74E-10	2.59E-09	2.59E-09	1.28E-09	6.65E-09
1781	256963.6	4085178	1.54E-10	2.23E-09	3.93E-08	3.93E-08	2.19E-08	1.03E-07	2.33E-11	3.39E-10	6.14E-09	6.14E-09	3.37E-09	1.60E-08	1.27E-11	1.83E-10	2.73E-09	2.73E-09	1.35E-09	7.01E-09
1782	256863.9	4084960	8.80E-11	1.27E-09	2.25E-08	2.25E-08	1.25E-08	5.88E-08	1.34E-11	1.94E-10	3.51E-09	3.51E-09	1.93E-09	9.15E-09	7.25E-12	1.05E-10	1.56E-09	1.56E-09	7.73E-10	4.01E-09
1783	256879.4	4084918	7.96E-11	1.15E-09	2.03E-08	2.03E-08	1.13E-08	5.32E-08	1.21E-11	1.75E-10	3.18E-09	3.18E-09	1.75E-09	8.28E-09	6.56E-12	9.49E-11	1.41E-09	1.41E-09	6.99E-10	3.63E-09
1784	256894.9	4084877	7.23E-11	1.05E-09	1.85E-08	1.85E-08	1.03E-08	4.83E-08	1.10E-11	1.59E-10	2.88E-09	2.88E-09	1.58E-09	7.52E-09	5.96E-12	8.62E-11	1.28E-09	1.28E-09	6.35E-10	3.29E-09
1785	256910.3	4084835	6.62E-11	9.58E-10	1.69E-08	1.69E-08	9.43E-09	4.43E-08	1.01E-11	1.46E-10	2.64E-09	2.64E-09	1.45E-09	6.89E-09	5.46E-12	7.90E-11	1.18E-09	1.18E-09	5.82E-10	3.02E-09
1786	256925.8	4084793	6.12E-11	8.85E-10	1.56E-08	1.56E-08	8.71E-09	4.09E-08	9.28E-12	1.35E-10	2.44E-09	2.44E-09	1.34E-09	6.36E-09	5.04E-12	7.29E-11	1.09E-09	1.09E-09	5.37E-10	2.79E-09
1787	256941.3	4084751	5.65E-11	8.18E-10	1.44E-08	1.44E-08	8.05E-09	3.78E-08	8.58E-12	1.25E-10	2.25E-09	2.25E-09	1.24E-09	5.88E-09	4.66E-12	6.74E-11	1.00E-09	1.00E-09	4.96E-10	2.57E-09
1788	256956.7	4084710	5.23E-11	7.56E-10	1.34E-08	1.34E-08	7.44E-09	3.50E-08	7.93E-12	1.15E-10	2.08E-09	2.08E-09	1.15E-09	5.44E-09	4.31E-12	6.23E-11	9.27E-10	9.27E-10	4.59E-10	2.38E-09
1789	256972.2	4084668	4.85E-11	7.02E-10	1.24E-08	1.24E-08	6.91E-09	3.24E-08	7.36E-12	1.07E-10	1.93E-09	1.93E-09	1.06E-09	5.05E-09	4.00E-12	5.78E-11	8.61E-10	8.61E-10	4.26E-10	2.21E-09
1790	256987.7	4084626	4.54E-11	6.56E-10	1.16E-08	1.16E-08	6.46E-09	3.04E-08	6.89E-12	1.00E-10	1.81E-09	1.81E-09	9.95E-10	4.72E-09	3.74E-12	5.41E-11	8.05E-10	8.05E-10	3.99E-10	2.07E-09
1791	257003.1	4084584	4.27E-11	6.18E-10	1.09E-08	1.09E-08	6.08E-09	2.86E-08	6.48E-12	9.41E-11	1.70E-09	1.70E-09	9.37E-10	4.44E-09	3.52E-12	5.09E-11	7.58E-10	7.58E-10	3.75E-10	1.95E-09
1792	257018.6	4084542	4.03E-11	5.83E-10	1.03E-08	1.03E-08	5.74E-09	2.69E-08	6.11E-12	8.88E-11	1.61E-09	1.61E-09	8.83E-10	4.19E-09	3.32E-12	4.80E-11	7.15E-10	7.15E-10	3.54E-10	1.83E-09
1793	257034.1	4084501	3.80E-11	5.50E-10	9.71E-09	9.71E-09	5.41E-09	2.54E-08	5.77E-12	8.37E-11	1.52E-09	1.52E-09	8.33E-10	3.95E-09	3.13E-12	4.53E-11	6.74E-10	6.74E-10	3.34E-10	1.73E-09
1794	257062	4084470	3.71E-11	5.36E-10	9.46E-09	9.46E-09	5.28E-09	2.48E-08	5.62E-12	8.16E-11	1.48E-09	1.48E-09	8.12E-10	3.85E-09	3.05E-12	4.42E-11	6.57E-10	6.57E-10	3.25E-10	1.69E-09
1795	257102.5	4084452	3.74E-11	5.42E-10	9.56E-09	9.56E-09	5.33E-09	2.50E-08	5.68E-12	8.25E-11	1.49E-09	1.49E-09	8.21E-10	3.90E-09	3.09E-12	4.46E-11	6.64E-10	6.64E-10	3.29E-10	1.71E-09
1796	257142.9	4084433	3.81E-11	5.50E-10	9.72E-09	9.72E-09	5.42E-09	2.54E-08	5.78E-12	8.39E-11	1.52E-09	1.52E-09	8.34E-10	3.96E-09	3.14E-12	4.54E-11	6.75E-10	6.75E-10	3.34E-10	1.73E-09
1797	257183.3	4084414	3.88E-11	5.62E-10	9.92E-09	9.92E-09	5.53E-09	2.60E-08	5.89E-12	8.55E-11	1.55E-09	1.55E-09	8.51E-10	4.04E-09	3.20E-12	4.63E-11	6.89E-10	6.89E-10	3.41E-10	1.77E-09
1798	257223.7	4084396	3.95E-11	5.71E-10	1.01E-08	1.01E-08	5.62E-09	2.64E-08	5.99E-12	8.70E-11	1.57E-09	1.57E-09	8.66E-10	4.11E-09	3.25E-12	4.71E-11	7.01E-10	7.01E-10	3.47E-10	1.80E-09
1799	257264.2	4084377	3.99E-11	5.78E-10	1.02E-08	1.02E-08	5.69E-09	2.67E-08	6.06E-12	8.80E-11	1.59E-09	1.59E-09	8.76E-10	4.15E-09	3.29E-12	4.76E-11	7.09E-10	7.09E-10	3.51E-10	1.82E-09
1800	257304.6	4084358	4.01E-11	5.80E-10	1.02E-08	1.02E-08	5.71E-09	2.68E-08	6.09E-12	8.83E-11	1.60E-09	1.60E-09	8.79E-10	4.17E-09	3.31E-12	4.78E-11	7.11E-10	7.11E-10	3.52E-10	1.83E-09
1801	257345	4084340	4.00E-11	5.78E-10	1.02E-08	1.02E-08	5.69E-09	2.67E-08	6.07E-12	8.81E-11	1.59E-09	1.59E-09	8.76E-10	4.16E-09	3.29E-12	4.76E-11	7.09E-10	7.09E-10	3.51E-10	1.82E-09
1802	257385.5	4084321	3.97E-11	5.74E-10	1.01E-08	1.01E-08	5.65E-09	2.65E-08	6.02E-12	8.74E-11	1.58E-09	1.58E-09	8.70E-10	4.13E-09	3.27E-12	4.73E-11	7.04E-10	7.04E-10	3.48E-10	1.81E-09
1803	257425.9	4084302	3.94E-11	5.70E-10	1.01E-08	1.01E-08	5.61E-09	2.63E-08	5.98E-12	8.68E-11	1.57E-09	1.57E-09	8.63E-10	4.10E-09	3.25E-12	4.70E-11	6.99E-10	6.99E-10	3.46E-10	1.79E-09
1804	257466.3	4084284	3.93E-11	5.68E-10	1.00E-08	1.00E-08	5.60E-09	2.63E-08	5.96E-12	8.66E-11	1.57E-09	1.57E-09	8.62E-10	4.09E-09	3.24E-12	4.69E-11	6.97E-10	6.97E-10	3.45E-10	1.79E-09
1805	256857	4085003	9.75E-11	1.41E-09	2.49E-08	2.49E-08	1.39E-08	6.52E-08	1.48E-11	2.15E-10	3.89E-09	3.89E-09	2.14E-09	1.01E-08	8.03E-12	1.16E-10	1.73E-09	1.73E-09	8.56E-10	4.44E-09
1806	256858.7	4085048	1.07E-10	1.55E-09	2.73E-08	2.73E-08	1.52E-08	7.16E-08	1.62E-11	2.36E-10	4.27E-09	4.27E-09	2.35E-09	1.11E-08	8.82E-12	1.28E-10	1.90E-09	1.90E-09	9.40E-10	4.87E-09
1807	256860.3	4085092	1.14E-10	1.66E-09	2.92E-08	2.92E-08	1.63E-08	7.65E-08	1.74E-11	2.52E-10	4.56E-09	4.56E-09	2.51E-09	1.19E-08	9.43E-12	1.36E-10	2.03E-09	2.03E-09	1.01E-09	5.21E-09
1808	256862	4085137	1.20E-10	1.73E-09	3.06E-08	3.06E-08	1.71E-08	8.02E-08	1.82E-11	2.64E-10	4.78E-09	4.78E-09	2.63E-09	1.25E-08	9.88E-12	1.43E-10	2.13E-09	2.13E-09	1.05E-09	5.46E-09
1809	256863.6	4085182	1.25E-10	1.80E-09	3.18E-08	3.18E-08	1.78E-08	8.34E-08	1.89E-11	2.75E-10	4.97E-09	4.97E-09	2.73E-09	1.30E-08	1.03E-11	1.49E-10	2.21E-09	2.21E-09	1.09E-09	5.68E-09
1810	256664	4084968	6.94E-11	1.00E-09	1.77E-08	1.77E-08	9.88E-09	4.64E-08	1.05E-11	1.53E-10	2.77E-09	2.77E-09	1.52E-09	7.22E-09	5.72E-12	8.27E-11	1.23E-09	1.23E-09	6.09E-10	3.16E-09
1811	256679.4	4084926	6.36E-11	9.20E-10	1.62E-08	1.62E-08	9.06E-09	4.25E-08	9.65E-12	1.40E-10	2.54E-09	2.54E-09	1.39E-09	6.62E-09	5.24E-12	7.58E-11	1.13E-09	1.13E-09	5.59E-10	2.90E-09
1812	256694.8	4084884	5.83E-11	8.43E-10	1.49E-08	1.49E-08	8.29E-09	3.90E-08	8.84E-12	1.28E-10	2.32E-09	2.32E-09	1.28E-09	6.06E-09	4.80E-12	6.94E-11	1.03E-09	1.03E-09	5.12E-10	2.65E-09
1813	256710.2	4084843	5.38E-11	7.79E-10	1.37E-08	1.37E-08	7.67E-09	3.60E-08	8.17E-12	1.19E-10	2.15E-09	2.15E-09	1.18E-09	5.60E-09	4.44E-12	6.42E-11	9.55E-10	9.55E-10	4.73E-10	2.45E-09
1814	256725.6	4084801	5.03E-11	7.27E-10	1.28E-08	1.28E-08	7.16E-09	3.36E-08	7.63E-12	1.11E-10	2.01E-09	2.01E-09	1.10E-09	5.23E-09	4.14E-12	6.00E-11	8.92E-10	8.92E-10	4.42E-10	2.29E-09
1815	256741	4084760	4.73E-11	6.84E-10	1.21E-08	1.21E-08	6.73E-09	3.16E-08	7.18E-12	1.04E-10	1.89E-09	1.89E-09	1.04E-09	4.92E-09	3.90E-12	5.64E-11	8.39E-10	8.39E-10	4.15E-10	2.15E-09
1816	256756.4	4084718	4.44E-11	6.43E-10	1.13E-08	1.13E-08	6.33E-09	2.97E-08	6.74E-12	9.79E-11	1.77E-09	1.77E-09	9.74E-10	4.62E-09	3.66E-12	5.30E-11	7.88E-10	7.88E-10	3.90E-10	2.02E-09
1817	256771.8	4084677	4.15E-11	6.00E-10	1.06E-08	1.06E-08	5.91E-09	2.77E-08	6.30E-12	9.14E-11	1.65E-09	1.65E-09	9.10E-10	4.32E-09	3.42E-12	4.95E-11	7.36E-10	7.36E-10	3.64E-10	1.89E-09
1818	256787.2	4084635	3.86E-11	5.58E-10	9.85E-09	9.85E-09	5.49E-09	2.58E-08	5.85E-12	8.50E-11	1.54E-09	1.54E-09	8.45E-10	4.01E-09	3.18E-12	4.60E-11	6.84E-10	6.84E-10	3.39E-10	1.76E-09
1819	256802.6	4084593	3.58E-11	5.18E-10	9.15E-09	9.15E-09	5.10E-09	2.40E-08	5.44E-12	7.90E-11	1.43E-09	1.43E-09	7.86E-10	3.73E-09	2.95E-12	4.27E-11	6.36E-10	6.36E-10	3.15E-10	1.63E-09
1820	256818	4084552	3.36E-11	4.86E-10	8.58E-09	8.58E-09	4.78E-09	2.25E-08	5.10E-12	7.40E-11	1.34E-09	1.34E-09	7.36E-10	3.49E-09	2.77E-12	4.00E-11	5.96E-10	5.96E-10	2.95E-10	1.53E-09
1821	256833.4	4084510	3.18E-11	4.60E-10	8.12E-09	8.12E-09	4.53E-09	2.13E-08	4.83E-12	7.01E-11	1.27E-09	1.27E-09	6.97E-10	3.31E-09	2.62E-12	3.79E-11	5.64E-10	5.64E-10	2.79E-10	1.45E-09
1822	256848.8	4084469	3.04E-11	4.40E-10	7.77E-09	7.77E-09	4.33E-09	2.03E-08	4.62E-12	6.70E-11	1.21E-09	1.21E-09	6.67E-10	3.16E-09	2.51E-12	3.63E-11	5.40E-10	5.40E-10	2.67E-10	1.38E-09
1823	256864.2	4084427	2.92E-11	4.22E-10	7.46E-09	7.46E-09	4.16E-09	1.95E-08	4.43E-12	6.43E-11	1.16E-09	1.16E-09	6.40E-10	3.04E-09	2.41E-12	3.48E-11	5.18E-10	5.18E-10	2.56E-10	1.33E-09
1824	256879.6	4084386	2.81E-11	4.06E-10	7.17E-09	7.17E-09	4.00E-09	1.88E-08	4.26E-12	6.19E-11	1.12E-09	1.12E-09	6.16E-10	2.92E-09	2.31E-12	3.35E-11	4.98E-10	4.98E-10	2.47E-10	1.28E-09
1825	256915.1	4084335	2.72E-11	3.94E-10	6.95E-09	6.95E-09	3.87E-09	1.82E-08	4.13E-12	5.99E-11	1.08E-09	1.08E-09	5.96E-10	2.83E-09	2.24E-12	3.24E-11	4.83E-10	4.83E-10	2.39E-10	1.24E-09
1826	256955.3	4084316	2.76E-11	3.98E-10	7.04E-09	7.04E-09	3.92E-09	1.84E-08	4.18E-12	6.07E-11	1.10E-09	1.10E-09	6.04E-10	2.87E-09	2.27E-12	3.28E-11	4.89E-10	4.89E-10	2.42E-10	1.25E-09
1827	256995.6	4084298	2.80E-11	4.05E-10	7.15E-09	7.15E-09	3.99E-09	1.87E-08	4.25E-12	6.17E-11	1.12E-09	1.12E-09	6.14E-10	2.91E-09	2.31E-12	3.34E-11	4.97E-10	4.97E-10	2.46E-10	1.28E-09
1828	257035.8	4084279	2.85E-11	4.13E-10	7.29E-09	7.29E-09	4.06E-09	1.91E-08	4.33E-12	6.29E-11	1.14E-09	1.14E-09	6.25E-10	2.97E-09	2.35E-12	3.40E-11	5.06E-10	5.06E-10	2.51E-10	1.30E-09
1829	257076.1	4084260	2.91E-11	4.20E-10	7.42E-09	7.42E-09	4.14E-09	1.94E-08	4.41E-12	6.40E-11	1.16E-09	1.16E-09	6.37E-10	3.02E-09	2.40E-12	3.46E-11	5.16E-10	5.16E-10	2.55E-10	1.32E-09
1830	257116.3	4084242	2.94E-11	4.25E-10	7.51E-09	7.51E-09	4.19E-09	1.97E-08	4.46E-12	6.48E-11	1.17E-09	1.17E-09	6.45E-10	3.06E-09	2.42E-12	3.51E-11	5.22E-10	5.22E-10	2.58E-10	1.34E-09
1831	257156.6	4084223	2.95E-11	4.27E-10	7.54E-09	7.54E-09	4.20E-09	1.97E-08	4.48E-12	6.50E-11	1.18E-09	1.18E-09	6.47E-10	3.07E-09	2.43E-12	3.52E-11	5.24E-10	5.24E-10	2.59E-10	1.34E-09
1832	257196.8	4084205	2.94E-11	4.25E-10	7.50E-09	7.50E-09	4.18E-09	1.96E-08	4.46E-12	6.47E-11	1.17E-09	1.17E-09	6.44E-10	3.06E-09	2.42E-12	3.50E-11	5.21E-10	5.21E-10	2.58E-10	1.34E-09
1833	257237.1	4084186	2.90E-11	4.20E-10	7.41E-09	7.41E-09	4.13E-09	1.94E-08	4.40E-12	6.39E-11	1.16E-09	1.16E-09	6.36E-10	3.02E-09	2.39E-12	3.46E-11	5.15E-10	5.15E-10	2.55E-10	1.32E-09
1834	257277.3	4084167	2.85E-11	4.13E-10	7.29E-09	7.29E-09	4.06E-09	1.91E-08	4.33E-12	6.29E-11	1.14E-09	1.14E-09	6.25E-10	2.97E-09	2.35E-12	3.40E-11	5.06E-10	5.06E-10	2.51E-10	1.30E-09
1835	257317.5	4084149	2.81E-11	4.06E-10	7.17E-09	7.17E-09	3.99E-09	1.88E-08	4.26E-12	6.18E-11	1.12E-09	1.12E-09	6.15E-10	2.92E-09	2.31E-12	3.34E-11	4.98E-10	4.98E-10	2.46E-10	1.28E-09
1836	257357.8	4084130	2.77E-11	4.01E-10	7.08E-09	7.08E-09	3.95E-09	1.85E-08	4.21E-12	6.11E-11	1.11E-09	1.11E-09	6.08E-10	2.88E-09	2.28E-12	3.30E-11	4.92E-10	4.92E-10	2.43E-10	1.26E-09
1837	257398	4084112	2.76E-11	3.99E-10	7.04E-09	7.04E-09	3.93E-09	1.84E-08	4.19E-12	6.08E-11	1.10E-09	1.10E-09	6.05E-10	2.87E-09	2.27E-12	3.29E-11	4.89E-10	4.89E-10	2.42E-10	1.26E-09
1838	257438.3	4084093	2.77E-11	4.00E-10	7.06E-09	7.06E-09	3.94E-09	1.85E-08	4.20E-12	6.09E-11	1.10E-09	1.10E-09	6.06E-10	2.88E-09	2.28E-12	3.30E-11	4.91E-10	4.91E-10	2.43E-10	1.26E-09
1839	257478.5	4084074	2.79E-11	4.04E-10	7.14E-09	7.14E-09	3.98E-09	1.87E-08	4.24E-12	6.16E-11	1.11E-09	1.11E-09	6.13E-10	2.91E-09	2.30E-12	3.33E-11	4.96E-10	4.96E-10	2.45E-10	1.27E-09
1840	256657.2	4085011	7.55E-11	1.09E-09	1.93E-08	1.93E-08	1.07E-08	5.05E-08	1.15E-11	1.66E-10	3.01E-09	3.01E-09	1.65E-09	7.85E-09	6.22E-12	9.00E-11	1.34E-09	1.34E-09	6.63E-10	3.44E-09
1841	256658.8	4085055	8.11E-11	1.17E-09	2.07E-08	2.07E-08	1.16E-08	5.43E-08	1.23E-11	1.79E-10	3.24E-09	3.24E-09	1.78E-09	8.44E-09	6.69E-12	9.67E-11	1.44E-09	1.44E-09	7.13E-10	3.70E-09
1842	256660.5	4085100	8.52E-11	1.23E-09	2.18E-08	2.18E-08	1.21E-08	5.69E-08	1.29E-11	1.88E-10	3.40E-09	3.40E-09	1.87E-09	8.86E-09	7.02E-12	1.02E-10	1.51E-09	1.51E-09	7.48E-10	3.88E-09
1843	256662.1	4085144	8.79E-11	1.27E-09	2.24E-08	2.24E-08	1.25E-08	5.88E-08	1.33E-11	1.94E-10	3.51E-09	3.51E-09	1.93E-09	9.14E-09	7.24E-12	1.05E-10	1.56E-09	1.56E-09	7.72E-10	4.00E-09
1844	256663	4085167	8.90E-11	1.29E-09	2.27E-08	2.27E-08	1.27E-08	5.95E-08	1.35E-11	1.96E-10	3.55E-09	3.55E-09	1.95E-09	9.26E-09	7.34E-12	1.06E-10	1.58E-09	1.58E-09	7.82E-10	4.05E-09
1845	256464.2	4084975	5.75E-11	8.32E-10	1.47E-08	1.47E-08	8.19E-09	3.85E-08	8.73E-12	1.27E-10	2.29E-09	2.29E-09	1.26E-09	5.99E-09	4.74E-12	6.86E-11	1.02E-09	1.02E-09	5.05E-10	2.62E-09
1846	256479.5	4084934	5.33E-11	7.71E-10	1.36E-08	1.36E-08	7.59E-09	3.56E-08	8.09E-12	1.17E-10	2.13E-09	2.13E-09	1.17E-09	5.55E-09	4.39E-12	6.35E-11	9.46E-10	9.46E-10	4.68E-10	2.43E-09
1847	256494.9	4084892	4.92E-11	7.12E-10	1.26E-08	1.26E-08	7.01E-09	3.29E-08	7.47E-12	1.08E-10	1.96E-09	1.96E-09	1.08E-09	5.12E-09	4.06E-12	5.87E-11	8.73E-10	8.73E-10	4.32E-10	2.24E-09
1848	256510.2	4084851	4.56E-11	6.60E-10	1.17E-08	1.17E-08	6.50E-09	3.05E-08	6.92E-12	1.01E-10	1.82E-09	1.82E-09	1.00E-09	4.75E-09	3.76E-12	5.44E-11	8.10E-10	8.10E-10	4.01E-10	2.08E-09
1849	256525.6	4084809	4.27E-11	6.18E-10	1.09E-08	1.09E-08	6.09E-09	2.86E-08	6.49E-12	9.42E-11	1.70E-09	1.70E-09	9.37E-10	4.45E-09	3.52E-12	5.10E-11	7.58E-10	7.58E-10	3.75E-10	1.95E-09
1850	256540.9	4084768	4.05E-11	5.85E-10	1.03E-08	1.03E-08	5.76E-09	2.71E-08	6.14E-12	8.92E-11	1.61E-09	1.61E-09	8.87E-10	4.21E-09	3.34E-12	4.82E-11	7.18E-10	7.18E-10	3.55E-10	1.84E-09
1851	256556.3	4084726	3.86E-11	5.58E-10	9.85E-09	9.85E-09	5.49E-09	2.58E-08	5.85E-12	8.50E-11	1.54E-09	1.54E-09	8.45E-10	4.01E-09	3.18E-12	4.60E-11	6.84E-10	6.84E-10	3.39E-10	1.76E-09
1852	256571.6	4084685	3.68E-11	5.32E-10	9.39E-09	9.39E-09	5.23E-09	2.46E-08	5.58E-12	8.10E-11	1.47E-09	1.47E-09	8.06E-10	3.82E-09	3.03E-12	4.38E-11	6.52E-10	6.52E-10	3.23E-10	1.67E-09
1853	256587	4084643	3.48E-11	5.03E-10	8.89E-09	8.89E-09	4.96E-09	2.33E-08	5.28E-12	7.67E-11	1.39E-09	1.39E-09	7.63E-10	3.62E-09	2.87E-12	4.15E-11	6.17E-10	6.17E-10	3.06E-10	1.58E-09
1854	256602.3	4084602	3.26E-11	4.72E-10	8.33E-09	8.33E-09	4.65E-09	2.18E-08	4.95E-12	7.19E-11	1.30E-09	1.30E-09	7.15E-10	3.39E-09	2.69E-12	3.89E-11	5.79E-10	5.79E-10	2.87E-10	1.49E-09
1855	256617.7	4084561	3.04E-11	4.39E-10	7.75E-09	7.75E-09	4.32E-09	2.03E-08	4.61E-12	6.69E-11	1.21E-09	1.21E-09	6.66E-10	3.16E-09	2.50E-12	3.62E-11	5.39E-10	5.39E-10	2.67E-10	1.38E-09
1856	256633	4084519	2.82E-11	4.08E-10	7.20E-09	7.20E-09	4.01E-09	1.88E-08	4.28E-12	6.21E-11	1.12E-09	1.12E-09	6.18E-10	2.93E-09	2.32E-12	3.36E-11	5.00E-10	5.00E-10	2.48E-10	1.28E-09
1857	256648.4	4084478	2.63E-11	3.81E-10	6.73E-09	6.73E-09	3.75E-09	1.76E-08	4.00E-12	5.80E-11	1.05E-09	1.05E-09	5.77E-10	2.74E-09	2.17E-12	3.14E-11	4.67E-10	4.67E-10	2.31E-10	1.20E-09
1858	256663.7	4084436	2.50E-11	3.61E-10	6.37E-09	6.37E-09	3.55E-09	1.67E-08	3.79E-12	5.50E-11	9.95E-10	9.95E-10	5.47E-10	2.60E-09	2.06E-12	2.98E-11	4.43E-10	4.43E-10	2.19E-10	1.14E-09
1859	256679.1	4084395	2.40E-11	3.47E-10	6.12E-09	6.12E-09	3.41E-09	1.60E-08	3.64E-12	5.28E-11	9.56E-10	9.56E-10	5.26E-10	2.49E-09	1.98E-12	2.86E-11	4.25E-10	4.25E-10	2.11E-10	1.09E-09
1860	256694.4	4084353	2.33E-11	3.37E-10	5.95E-09	5.95E-09	3.32E-09	1.56E-08	3.53E-12	5.13E-11	9.29E-10	9.29E-10	5.11E-10	2.42E-09	1.92E-12	2.78E-11	4.13E-10	4.13E-10	2.05E-10	1.06E-09
1861	256709.8	4084312	2.28E-11	3.29E-10	5.81E-09	5.81E-09	3.24E-09	1.52E-08	3.45E-12	5.02E-11	9.08E-10	9.08E-10	4.99E-10	2.37E-09	1.88E-12	2.71E-11	4.04E-10	4.04E-10	2.00E-10	1.04E-09
1862	256725.1	4084270	2.23E-11	3.22E-10	5.69E-09	5.69E-09	3.17E-09	1.49E-08	3.38E-12	4.91E-11	8.89E-10	8.89E-10	4.89E-10	2.32E-09	1.84E-12	2.66E-11	3.95E-10	3.95E-10	1.96E-10	1.01E-09
1863	256740.5	4084229	2.18E-11	3.15E-10	5.57E-09	5.57E-09	3.11E-09	1.46E-08	3.31E-12	4.81E-11	8.70E-10	8.70E-10	4.78E-10	2.27E-09	1.80E-12	2.60E-11	3.87E-10	3.87E-10	1.92E-10	9.93E-10
1864	256768.2	4084199	2.17E-11	3.14E-10	5.55E-09	5.55E-09	3.09E-09	1.45E-08	3.30E-12	4.79E-11	8.66E-10	8.66E-10	4.76E-10	2.26E-09	1.79E-12	2.59E-11	3.86E-10	3.86E-10	1.91E-10	9.90E-10
1865	256808.3	4084180	2.20E-11	3.18E-10	5.61E-09	5.61E-09	3.13E-09	1.47E-08	3.33E-12	4.84E-11	8.76E-10	8.76E-10	4.82E-10	2.29E-09	1.81E-12	2.62E-11	3.90E-10	3.90E-10	1.93E-10	1.00E-09
1866	256848.5	4084162	2.23E-11	3.22E-10	5.68E-09	5.68E-09	3.17E-09	1.49E-08	3.38E-12	4.90E-11	8.88E-10	8.88E-10	4.88E-10	2.32E-09	1.83E-12	2.65E-11	3.95E-10	3.95E-10	1.95E-10	1.01E-09
1867	256888.6	4084143	2.25E-11	3.26E-10	5.76E-09	5.76E-09	3.21E-09	1.51E-08	3.42E-12	4.97E-11	8.99E-10	8.99E-10	4.94E-10	2.35E-09	1.86E-12	2.69E-11	4.00E-10	4.00E-10	1.98E-10	1.03E-09
1868	256928.7	4084125	2.29E-11	3.31E-10	5.84E-09	5.84E-09	3.26E-09	1.53E-08	3.47E-12	5.04E-11	9.12E-10	9.12E-10	5.01E-10	2.38E-09	1.88E-12	2.73E-11	4.06E-10	4.06E-10	2.01E-10	1.04E-09
1869	256968.8	4084106	2.31E-11	3.34E-10	5.89E-09	5.89E-09	3.29E-09	1.54E-08	3.50E-12	5.09E-11	9.20E-10	9.20E-10	5.06E-10	2.40E-09	1.90E-12	2.75E-11	4.09E-10	4.09E-10	2.03E-10	1.05E-09
1870	257009	4084088	2.32E-11	3.35E-10	5.91E-09	5.91E-09	3.30E-09	1.55E-08	3.51E-12	5.10E-11	9.24E-10	9.24E-10	5.08E-10	2.41E-09	1.91E-12	2.76E-11	4.11E-10	4.11E-10	2.03E-10	1.05E-09
1871	257049.1	4084069	2.31E-11	3.34E-10	5.89E-09	5.89E-09	3.29E-09	1.54E-08	3.50E-12	5.09E-11	9.20E-10	9.20E-10	5.06E-10	2.40E-09	1.90E-12	2.75E-11	4.09E-10	4.09E-10	2.03E-10	1.05E-09
1872	257089.2	4084051	2.29E-11	3.31E-10	5.84E-09	5.84E-09	3.26E-09	1.53E-08	3.47E-12	5.04E-11	9.12E-10	9.12E-10	5.01E-10	2.38E-09	1.88E-12	2.73E-11	4.06E-10	4.06E-10	2.01E-10	1.04E-09
1873	257129.3	4084032	2.25E-11	3.26E-10	5.76E-09	5.76E-09	3.21E-09	1.51E-08	3.42E-12	4.97E-11	8.99E-10	8.99E-10	4.94E-10	2.35E-09	1.86E-12	2.69E-11	4.00E-10	4.00E-10	1.98E-10	1.03E-09
1874	257169.5	4084014	2.22E-11	3.21E-10	5.67E-09	5.67E-09	3.16E-09	1.48E-08	3.37E-12	4.89E-11	8.85E-10	8.85E-10	4.87E-10	2.31E-09	1.83E-12	2.65E-11	3.94E-10	3.94E-10	1.95E-10	1.01E-09
1875	257209.6	4083995	2.19E-11	3.16E-10	5.58E-09	5.58E-09	3.11E-09	1.46E-08	3.32E-12	4.82E-11	8.72E-10	8.72E-10	4.79E-10	2.27E-09	1.80E-12	2.61E-11	3.88E-10	3.88E-10	1.92E-10	9.96E-10
1876	257249.7	4083977	2.16E-11	3.12E-10	5.51E-09	5.51E-09	3.07E-09	1.44E-08	3.27E-12	4.75E-11	8.60E-10	8.60E-10	4.73E-10	2.24E-09	1.78E-12	2.57E-11	3.83E-10	3.83E-10	1.89E-10	9.82E-10
1877	257289.9	4083958	2.14E-11	3.09E-10	5.46E-09	5.46E-09	3.05E-09	1.43E-08	3.25E-12	4.71E-11	8.53E-10	8.53E-10	4.69E-10	2.22E-09	1.76E-12	2.55E-11	3.79E-10	3.79E-10	1.88E-10	9.74E-10
1878	257330	4083939	2.13E-11	3.08E-10	5.43E-09	5.43E-09	3.03E-09	1.42E-08	3.23E-12	4.69E-11	8.49E-10	8.49E-10	4.67E-10	2.21E-09	1.75E-12	2.54E-11	3.78E-10	3.78E-10	1.87E-10	9.69E-10
1879	257370.1	4083921	2.13E-11	3.08E-10	5.43E-09	5.43E-09	3.03E-09	1.42E-08	3.23E-12	4.69E-11	8.49E-10	8.49E-10	4.67E-10	2.21E-09	1.75E-12	2.54E-11	3.78E-10	3.78E-10	1.87E-10	9.69E-10
1880	257410.2	4083902	2.13E-11	3.09E-10	5.45E-09	5.45E-09	3.04E-09	1.43E-08	3.24E-12	4.70E-11	8.51E-10	8.51E-10	4.68E-10	2.22E-09	1.76E-12	2.54E-11	3.78E-10	3.78E-10	1.87E-10	9.71E-10
1881	257450.4	4083884	2.14E-11	3.10E-10	5.48E-09	5.48E-09	3.05E-09	1.43E-08	3.25E-12	4.72E-11	8.55E-10	8.55E-10	4.70E-10	2.23E-09	1.77E-12	2.56E-11	3.80E-10	3.80E-10	1.88E-10	9.76E-10
1882	256457.3	4085018	6.17E-11	8.92E-10	1.58E-08	1.58E-08	8.78E-09	4.12E-08	9.36E-12	1.36E-10	2.46E-09	2.46E-09	1.35E-09	6.42E-09	5.08E-12	7.35E-11	1.09E-09	1.09E-09	5.42E-10	2.81E-09
1883	256459	4085063	6.53E-11	9.45E-10	1.67E-08	1.67E-08	9.30E-09	4.37E-08	9.92E-12	1.44E-10	2.61E-09	2.61E-09	1.43E-09	6.80E-09	5.39E-12	7.79E-11	1.16E-09	1.16E-09	5.74E-10	2.98E-09
1884	256460.6	4085107	6.78E-11	9.80E-10	1.73E-08	1.73E-08	9.65E-09	4.53E-08	1.03E-11	1.49E-10	2.70E-09	2.70E-09	1.49E-09	7.05E-09	5.58E-12	8.08E-11	1.20E-09	1.20E-09	5.95E-10	3.09E-09

1885	256462.3	4085152	6.93E-11	1.00E-09	1.77E-08	1.77E-08	9.86E-09	4.63E-08	1.05E-11	1.53E-10	2.76E-09	2.76E-09	1.52E-09	7.21E-09	5.71E-12	8.26E-11	1.23E-09	1.23E-09	6.08E-10	3.15E-09
1886	256463.9	4085196	7.05E-11	1.02E-09	1.80E-08	1.80E-08	1.00E-08	4.71E-08	1.07E-11	1.55E-10	2.81E-09	2.81E-09	1.55E-09	7.33E-09	5.81E-12	8.41E-11	1.25E-09	1.25E-09	6.19E-10	3.21E-09
1887	256264.3	4084983	4.92E-11	7.12E-10	1.26E-08	1.26E-08	7.01E-09	3.29E-08	7.47E-12	1.08E-10	1.96E-09	1.96E-09	1.08E-09	5.12E-09	4.06E-12	5.87E-11	8.73E-10	8.73E-10	4.32E-10	2.24E-09
1888	256279.6	4084941	4.61E-11	6.66E-10	1.18E-08	1.18E-08	6.56E-09	3.08E-08	6.99E-12	1.02E-10	1.84E-09	1.84E-09	1.01E-09	4.79E-09	3.80E-12	5.49E-11	8.18E-10	8.18E-10	4.05E-10	2.10E-09
1889	256294.9	4084900	4.29E-11	6.20E-10	1.10E-08	1.10E-08	6.10E-09	2.87E-08	6.51E-12	9.45E-11	1.71E-09	1.71E-09	9.40E-10	4.46E-09	3.53E-12	5.11E-11	7.61E-10	7.61E-10	3.77E-10	1.95E-09
1890	256310.2	4084858	3.99E-11	5.78E-10	1.02E-08	1.02E-08	5.69E-09	2.67E-08	6.06E-12	8.80E-11	1.59E-09	1.59E-09	8.76E-10	4.15E-09	3.29E-12	4.76E-11	7.09E-10	7.09E-10	3.51E-10	1.82E-09
1891	256325.6	4084817	3.74E-11	5.42E-10	9.56E-09	9.56E-09	5.33E-09	2.50E-08	5.68E-12	8.25E-11	1.49E-09	1.49E-09	8.21E-10	3.90E-09	3.09E-12	4.46E-11	6.64E-10	6.64E-10	3.29E-10	1.71E-09
1892	256340.9	4084776	3.55E-11	5.13E-10	9.06E-09	9.06E-09	5.05E-09	2.37E-08	5.38E-12	7.81E-11	1.41E-09	1.41E-09	7.78E-10	3.69E-09	2.92E-12	4.23E-11	6.29E-10	6.29E-10	3.11E-10	1.62E-09
1893	256356.2	4084734	3.39E-11	4.90E-10	8.66E-09	8.66E-09	4.83E-09	2.27E-08	5.15E-12	7.47E-11	1.35E-09	1.35E-09	7.43E-10	3.53E-09	2.79E-12	4.04E-11	6.02E-10	6.02E-10	2.98E-10	1.54E-09
1894	256371.5	4084693	3.26E-11	4.72E-10	8.33E-09	8.33E-09	4.64E-09	2.18E-08	4.95E-12	7.18E-11	1.30E-09	1.30E-09	7.15E-10	3.39E-09	2.69E-12	3.89E-11	5.79E-10	5.79E-10	2.86E-10	1.48E-09
1895	256386.8	4084652	3.14E-11	4.54E-10	8.02E-09	8.02E-09	4.47E-09	2.10E-08	4.76E-12	6.92E-11	1.25E-09	1.25E-09	6.88E-10	3.27E-09	2.59E-12	3.74E-11	5.57E-10	5.57E-10	2.76E-10	1.43E-09
1896	256402.2	4084610	3.01E-11	4.35E-10	7.68E-09	7.68E-09	4.28E-09	2.01E-08	4.56E-12	6.62E-11	1.20E-09	1.20E-09	6.59E-10	3.13E-09	2.48E-12	3.58E-11	5.33E-10	5.33E-10	2.64E-10	1.37E-09
1897	256417.5	4084569	2.86E-11	4.13E-10	7.29E-09	7.29E-09	4.07E-09	1.91E-08	4.33E-12	6.29E-11	1.14E-09	1.14E-09	6.26E-10	2.97E-09	2.35E-12	3.40E-11	5.07E-10	5.07E-10	2.51E-10	1.30E-09
1898	256432.8	4084527	2.68E-11	3.88E-10	6.85E-09	6.85E-09	3.82E-09	1.79E-08	4.07E-12	5.91E-11	1.07E-09	1.07E-09	5.88E-10	2.79E-09	2.21E-12	3.20E-11	4.76E-10	4.76E-10	2.35E-10	1.22E-09
1899	256448.1	4084486	2.49E-11	3.60E-10	6.36E-09	6.36E-09	3.55E-09	1.67E-08	3.78E-12	5.49E-11	9.93E-10	9.93E-10	5.46E-10	2.59E-09	2.05E-12	2.97E-11	4.42E-10	4.42E-10	2.19E-10	1.13E-09
1900	256463.4	4084445	2.31E-11	3.34E-10	5.90E-09	5.90E-09	3.29E-09	1.54E-08	3.51E-12	5.09E-11	9.21E-10	9.21E-10	5.07E-10	2.40E-09	1.90E-12	2.75E-11	4.10E-10	4.10E-10	2.03E-10	1.05E-09
1901	256478.7	4084403	2.16E-11	3.12E-10	5.51E-09	5.51E-09	3.07E-09	1.44E-08	3.27E-12	4.75E-11	8.60E-10	8.60E-10	4.73E-10	2.24E-09	1.78E-12	2.57E-11	3.83E-10	3.83E-10	1.89E-10	9.82E-10
1902	256494.1	4084362	2.04E-11	2.95E-10	5.20E-09	5.20E-09	2.90E-09	1.36E-08	3.09E-12	4.49E-11	8.13E-10	8.13E-10	4.47E-10	2.12E-09	1.68E-12	2.43E-11	3.62E-10	3.62E-10	1.79E-10	9.28E-10
1903	256509.4	4084321	1.96E-11	2.83E-10	5.00E-09	5.00E-09	2.79E-09	1.31E-08	2.97E-12	4.32E-11	7.81E-10	7.81E-10	4.29E-10	2.04E-09	1.61E-12	2.33E-11	3.47E-10	3.47E-10	1.72E-10	8.92E-10
1904	256524.7	4084279	1.91E-11	2.76E-10	4.88E-09	4.88E-09	2.72E-09	1.28E-08	2.90E-12	4.21E-11	7.62E-10	7.62E-10	4.19E-10	1.99E-09	1.58E-12	2.28E-11	3.39E-10	3.39E-10	1.68E-10	8.70E-10
1905	256540	4084238	1.88E-11	2.73E-10	4.81E-09	4.81E-09	2.68E-09	1.26E-08	2.86E-12	4.15E-11	7.51E-10	7.51E-10	4.13E-10	1.96E-09	1.55E-12	2.25E-11	3.34E-10	3.34E-10	1.65E-10	8.58E-10
1906	256555.3	4084197	1.87E-11	2.70E-10	4.77E-09	4.77E-09	2.66E-09	1.25E-08	2.84E-12	4.12E-11	7.45E-10	7.45E-10	4.10E-10	1.94E-09	1.54E-12	2.23E-11	3.32E-10	3.32E-10	1.64E-10	8.51E-10
1907	256570.7	4084155	1.86E-11	2.68E-10	4.74E-09	4.74E-09	2.64E-09	1.24E-08	2.82E-12	4.09E-11	7.40E-10	7.40E-10	4.07E-10	1.93E-09	1.53E-12	2.21E-11	3.29E-10	3.29E-10	1.63E-10	8.45E-10
1908	256586	4084114	1.84E-11	2.66E-10	4.70E-09	4.70E-09	2.62E-09	1.23E-08	2.80E-12	4.06E-11	7.35E-10	7.35E-10	4.04E-10	1.92E-09	1.52E-12	2.20E-11	3.27E-10	3.27E-10	1.62E-10	8.39E-10
1909	256621.3	4084063	1.83E-11	2.65E-10	4.67E-09	4.67E-09	2.60E-09	1.22E-08	2.78E-12	4.03E-11	7.29E-10	7.29E-10	4.01E-10	1.90E-09	1.51E-12	2.18E-11	3.24E-10	3.24E-10	1.61E-10	8.33E-10
1910	256661.4	4084045	1.84E-11	2.67E-10	4.71E-09	4.71E-09	2.63E-09	1.23E-08	2.80E-12	4.06E-11	7.36E-10	7.36E-10	4.04E-10	1.92E-09	1.52E-12	2.20E-11	3.27E-10	3.27E-10	1.62E-10	8.40E-10
1911	256701.4	4084026	1.86E-11	2.68E-10	4.74E-09	4.74E-09	2.64E-09	1.24E-08	2.82E-12	4.09E-11	7.40E-10	7.40E-10	4.07E-10	1.93E-09	1.53E-12	2.21E-11	3.29E-10	3.29E-10	1.63E-10	8.45E-10
1912	256741.5	4084008	1.87E-11	2.70E-10	4.77E-09	4.77E-09	2.66E-09	1.25E-08	2.83E-12	4.11E-11	7.44E-10	7.44E-10	4.09E-10	1.94E-09	1.54E-12	2.22E-11	3.31E-10	3.31E-10	1.64E-10	8.50E-10
1913	256781.5	4083989	1.88E-11	2.71E-10	4.79E-09	4.79E-09	2.67E-09	1.25E-08	2.85E-12	4.13E-11	7.48E-10	7.48E-10	4.11E-10	1.95E-09	1.55E-12	2.24E-11	3.33E-10	3.33E-10	1.65E-10	8.55E-10
1914	256821.6	4083971	1.88E-11	2.73E-10	4.81E-09	4.81E-09	2.68E-09	1.26E-08	2.86E-12	4.15E-11	7.51E-10	7.51E-10	4.13E-10	1.96E-09	1.55E-12	2.25E-11	3.34E-10	3.34E-10	1.65E-10	8.58E-10
1915	256861.6	4083952	1.89E-11	2.73E-10	4.82E-09	4.82E-09	2.69E-09	1.26E-08	2.86E-12	4.16E-11	7.53E-10	7.53E-10	4.14E-10	1.96E-09	1.56E-12	2.25E-11	3.35E-10	3.35E-10	1.66E-10	8.59E-10
1916	256901.6	4083934	1.88E-11	2.73E-10	4.81E-09	4.81E-09	2.68E-09	1.26E-08	2.86E-12	4.15E-11	7.51E-10	7.51E-10	4.13E-10	1.96E-09	1.55E-12	2.25E-11	3.34E-10	3.34E-10	1.65E-10	8.58E-10
1917	256941.7	4083915	1.87E-11	2.71E-10	4.79E-09	4.79E-09	2.67E-09	1.25E-08	2.84E-12	4.13E-11	7.47E-10	7.47E-10	4.11E-10	1.95E-09	1.54E-12	2.23E-11	3.32E-10	3.32E-10	1.65E-10	8.53E-10
1918	256981.7	4083897	1.86E-11	2.69E-10	4.75E-09	4.75E-09	2.65E-09	1.24E-08	2.82E-12	4.09E-11	7.41E-10	7.41E-10	4.07E-10	1.93E-09	1.53E-12	2.22E-11	3.30E-10	3.30E-10	1.63E-10	8.46E-10
1919	257021.8	4083878	1.84E-11	2.66E-10	4.70E-09	4.70E-09	2.62E-09	1.23E-08	2.79E-12	4.05E-11	7.34E-10	7.34E-10	4.03E-10	1.91E-09	1.52E-12	2.19E-11	3.26E-10	3.26E-10	1.62E-10	8.38E-10
1920	257061.8	4083860	1.82E-11	2.63E-10	4.65E-09	4.65E-09	2.59E-09	1.22E-08	2.76E-12	4.01E-11	7.26E-10	7.26E-10	3.99E-10	1.89E-09	1.50E-12	2.17E-11	3.23E-10	3.23E-10	1.60E-10	8.29E-10
1921	257101.9	4083841	1.81E-11	2.61E-10	4.61E-09	4.61E-09	2.57E-09	1.21E-08	2.74E-12	3.98E-11	7.20E-10	7.20E-10	3.96E-10	1.88E-09	1.49E-12	2.15E-11	3.20E-10	3.20E-10	1.59E-10	8.22E-10
1922	257141.9	4083823	1.79E-11	2.59E-10	4.57E-09	4.57E-09	2.55E-09	1.20E-08	2.72E-12	3.94E-11	7.13E-10	7.13E-10	3.92E-10	1.86E-09	1.47E-12	2.13E-11	3.17E-10	3.17E-10	1.57E-10	8.15E-10
1923	257182	4083804	1.77E-11	2.56E-10	4.53E-09	4.53E-09	2.52E-09	1.19E-08	2.69E-12	3.91E-11	7.07E-10	7.07E-10	3.89E-10	1.84E-09	1.46E-12	2.11E-11	3.15E-10	3.15E-10	1.56E-10	8.08E-10
1924	257222	4083786	1.76E-11	2.54E-10	4.49E-09	4.49E-09	2.50E-09	1.18E-08	2.67E-12	3.87E-11	7.01E-10	7.01E-10	3.85E-10	1.83E-09	1.45E-12	2.10E-11	3.12E-10	3.12E-10	1.54E-10	8.00E-10
1925	257262.1	4083767	1.74E-11	2.52E-10	4.45E-09	4.45E-09	2.48E-09	1.17E-08	2.65E-12	3.84E-11	6.96E-10	6.96E-10	3.82E-10	1.81E-09	1.44E-12	2.08E-11	3.09E-10	3.09E-10	1.53E-10	7.94E-10
1926	257302.1	4083749	1.73E-11	2.50E-10	4.42E-09	4.42E-09	2.46E-09	1.16E-08	2.63E-12	3.81E-11	6.90E-10	6.90E-10	3.79E-10	1.80E-09	1.43E-12	2.06E-11	3.07E-10	3.07E-10	1.52E-10	7.88E-10
1927	257342.2	4083730	1.72E-11	2.48E-10	4.39E-09	4.39E-09	2.45E-09	1.15E-08	2.61E-12	3.78E-11	6.85E-10	6.85E-10	3.77E-10	1.79E-09	1.42E-12	2.05E-11	3.05E-10	3.05E-10	1.51E-10	7.82E-10
1928	257382.2	4083712	1.71E-11	2.47E-10	4.36E-09	4.36E-09	2.43E-09	1.14E-08	2.59E-12	3.76E-11	6.81E-10	6.81E-10	3.74E-10	1.78E-09	1.41E-12	2.04E-11	3.03E-10	3.03E-10	1.50E-10	7.77E-10
1929	257422.2	4083693	1.70E-11	2.46E-10	4.34E-09	4.34E-09	2.42E-09	1.14E-08	2.58E-12	3.74E-11	6.78E-10	6.78E-10	3.73E-10	1.77E-09	1.40E-12	2.03E-11	3.01E-10	3.01E-10	1.49E-10	7.74E-10
1930	257462.3	4083675	1.69E-11	2.45E-10	4.33E-09	4.33E-09	2.41E-09	1.13E-08	2.57E-12	3.73E-11	6.75E-10	6.75E-10	3.71E-10	1.76E-09	1.40E-12	2.02E-11	3.01E-10	3.01E-10	1.49E-10	7.71E-10
1931	256257.5	4085025	5.22E-11	7.55E-10	1.33E-08	1.33E-08	7.43E-09	3.49E-08	7.92E-12	1.15E-10	2.08E-09	2.08E-09	1.14E-09	5.43E-09	4.30E-12	6.22E-11	9.26E-10	9.26E-10	4.58E-10	2.38E-09
1932	256259.1	4085070	5.47E-11	7.91E-10	1.40E-08	1.40E-08	7.79E-09	3.66E-08	8.30E-12	1.21E-10	2.18E-09	2.18E-09	1.20E-09	5.69E-09	4.51E-12	6.52E-11	9.71E-10	9.71E-10	4.80E-10	2.49E-09
1933	256260.8	4085115	5.62E-11	8.13E-10	1.44E-08	1.44E-08	8.01E-09	3.76E-08	8.54E-12	1.24E-10	2.24E-09	2.24E-09	1.23E-09	5.85E-09	4.64E-12	6.70E-11	9.98E-10	9.98E-10	4.94E-10	2.56E-09
1934	256261.6	4085137	5.67E-11	8.21E-10	1.45E-08	1.45E-08	8.08E-09	3.79E-08	8.61E-12	1.25E-10	2.26E-09	2.26E-09	1.24E-09	5.90E-09	4.68E-12	6.76E-11	1.01E-09	1.01E-09	4.98E-10	2.58E-09
1935	256263.2	4085181	5.75E-11	8.31E-10	1.47E-08	1.47E-08	8.19E-09	3.84E-08	8.72E-12	1.27E-10	2.29E-09	2.29E-09	1.26E-09	5.98E-09	4.74E-12	6.85E-11	1.02E-09	1.02E-09	5.05E-10	2.62E-09
1936	256064.4	4084990	4.31E-11	6.23E-10	1.10E-08	1.10E-08	6.13E-09	2.88E-08	6.54E-12	9.49E-11	1.72E-09	1.72E-09	9.45E-10	4.48E-09	3.55E-12	5.14E-11	7.64E-10	7.64E-10	3.78E-10	1.96E-09
1937	256079.7	4084949	4.08E-11	5.89E-10	1.04E-08	1.04E-08	5.80E-09	2.73E-08	6.19E-12	8.98E-11	1.63E-09	1.63E-09	8.94E-10	4.24E-09	3.36E-12	4.86E-11	7.23E-10	7.23E-10	3.58E-10	1.86E-09
1938	256095	4084907	3.82E-11	5.53E-10	9.76E-09	9.76E-09	5.44E-09	2.56E-08	5.80E-12	8.42E-11	1.52E-09	1.52E-09	8.38E-10	3.98E-09	3.15E-12	4.56E-11	6.78E-10	6.78E-10	3.36E-10	1.74E-09
1939	256110.3	4084866	3.58E-11	5.18E-10	9.14E-09	9.14E-09	5.10E-09	2.39E-08	5.43E-12	7.88E-11	1.43E-09	1.43E-09	7.84E-10	3.72E-09	2.95E-12	4.27E-11	6.35E-10	6.35E-10	3.14E-10	1.63E-09
1940	256125.6	4084825	3.36E-11	4.86E-10	8.58E-09	8.58E-09	4.79E-09	2.25E-08	5.10E-12	7.41E-11	1.34E-09	1.34E-09	7.37E-10	3.50E-09	2.77E-12	4.01E-11	5.96E-10	5.96E-10	2.95E-10	1.53E-09
1941	256140.9	4084783	3.18E-11	4.60E-10	8.12E-09	8.12E-09	4.53E-09	2.13E-08	4.83E-12	7.01E-11	1.27E-09	1.27E-09	6.97E-10	3.31E-09	2.62E-12	3.79E-11	5.64E-10	5.64E-10	2.79E-10	1.45E-09
1942	256156.2	4084742	3.04E-11	4.39E-10	7.76E-09	7.76E-09	4.33E-09	2.03E-08	4.61E-12	6.69E-11	1.21E-09	1.21E-09	6.66E-10	3.16E-09	2.50E-12	3.62E-11	5.39E-10	5.39E-10	2.67E-10	1.38E-09
1943	256171.5	4084701	2.92E-11	4.23E-10	7.47E-09	7.47E-09	4.16E-09	1.96E-08	4.44E-12	6.44E-11	1.17E-09	1.17E-09	6.41E-10	3.04E-09	2.41E-12	3.49E-11	5.19E-10	5.19E-10	2.57E-10	1.33E-09
1944	256186.8	4084660	2.83E-11	4.09E-10	7.23E-09	7.23E-09	4.03E-09	1.89E-08	4.29E-12	6.23E-11	1.13E-09	1.13E-09	6.20E-10	2.94E-09	2.33E-12	3.37E-11	5.02E-10	5.02E-10	2.48E-10	1.29E-09
1945	256202.1	4084618	2.74E-11	3.97E-10	7.00E-09	7.00E-09	3.90E-09	1.83E-08	4.16E-12	6.04E-11	1.09E-09	1.09E-09	6.01E-10	2.85E-09	2.26E-12	3.27E-11	4.86E-10	4.86E-10	2.41E-10	1.25E-09
1946	256217.4	4084577	2.65E-11	3.83E-10	6.77E-09	6.77E-09	3.77E-09	1.77E-08	4.02E-12	5.84E-11	1.06E-09	1.06E-09	5.81E-10	2.76E-09	2.18E-12	3.16E-11	4.70E-10	4.70E-10	2.33E-10	1.21E-09
1947	256232.7	4084536	2.54E-11	3.68E-10	6.50E-09	6.50E-09	3.62E-09	1.70E-08	3.86E-12	5.60E-11	1.01E-09	1.01E-09	5.58E-10	2.65E-09	2.10E-12	3.03E-11	4.51E-10	4.51E-10	2.23E-10	1.16E-09
1948	256248	4084494	2.41E-11	3.49E-10	6.16E-09	6.16E-09	3.44E-09	1.61E-08	3.66E-12	5.32E-11	9.63E-10	9.63E-10	5.29E-10	2.51E-09	1.99E-12	2.88E-11	4.28E-10	4.28E-10	2.12E-10	1.10E-09
1949	256263.3	4084453	2.26E-11	3.27E-10	5.77E-09	5.77E-09	3.22E-09	1.51E-08	3.43E-12	4.98E-11	9.01E-10	9.01E-10	4.96E-10	2.35E-09	1.86E-12	2.69E-11	4.01E-10	4.01E-10	1.98E-10	1.03E-09
1950	256278.6	4084412	2.11E-11	3.05E-10	5.38E-09	5.38E-09	3.00E-09	1.41E-08	3.20E-12	4.64E-11	8.40E-10	8.40E-10	4.62E-10	2.19E-09	1.74E-12	2.51E-11	3.74E-10	3.74E-10	1.85E-10	9.59E-10
1951	256293.9	4084370	1.95E-11	2.83E-10	4.99E-09	4.99E-09	2.78E-09	1.31E-08	2.96E-12	4.30E-11	7.79E-10	7.79E-10	4.28E-10	2.03E-09	1.61E-12	2.33E-11	3.47E-10	3.47E-10	1.72E-10	8.90E-10
1952	256309.2	4084329	1.82E-11	2.63E-10	4.65E-09	4.65E-09	2.59E-09	1.22E-08	2.76E-12	4.01E-11	7.26E-10	7.26E-10	3.99E-10	1.89E-09	1.50E-12	2.17E-11	3.23E-10	3.23E-10	1.60E-10	8.29E-10
1953	256324.4	4084288	1.72E-11	2.48E-10	4.39E-09	4.39E-09	2.45E-09	1.15E-08	2.61E-12	3.78E-11	6.85E-10	6.85E-10	3.77E-10	1.79E-09	1.42E-12	2.05E-11	3.05E-10	3.05E-10	1.51E-10	7.82E-10
1954	256339.7	4084246	1.65E-11	2.38E-10	4.20E-09	4.20E-09	2.34E-09	1.10E-08	2.50E-12	3.63E-11	6.56E-10	6.56E-10	3.61E-10	1.71E-09	1.36E-12	1.96E-11	2.92E-10	2.92E-10	1.45E-10	7.50E-10
1955	256355	4084205	1.60E-11	2.32E-10	4.10E-09	4.10E-09	2.28E-09	1.07E-08	2.43E-12	3.53E-11	6.40E-10	6.40E-10	3.52E-10	1.67E-09	1.32E-12	1.91E-11	2.85E-10	2.85E-10	1.41E-10	7.30E-10
1956	256370.3	4084164	1.59E-11	2.30E-10	4.06E-09	4.06E-09	2.26E-09	1.06E-08	2.41E-12	3.50E-11	6.33E-10	6.33E-10	3.48E-10	1.65E-09	1.31E-12	1.89E-11	2.82E-10	2.82E-10	1.39E-10	7.23E-10
1957	256385.6	4084123	1.59E-11	2.30E-10	4.06E-09	4.06E-09	2.26E-09	1.06E-08	2.41E-12	3.50E-11	6.33E-10	6.33E-10	3.48E-10	1.65E-09	1.31E-12	1.89E-11	2.82E-10	2.82E-10	1.39E-10	7.23E-10
1958	256400.9	4084081	1.60E-11	2.31E-10	4.08E-09	4.08E-09	2.27E-09	1.07E-08	2.42E-12	3.52E-11	6.36E-10	6.36E-10	3.50E-10	1.66E-09	1.32E-12	1.90E-11	2.83E-10	2.83E-10	1.40E-10	7.27E-10
1959	256416.2	4084040	1.60E-11	2.32E-10	4.09E-09	4.09E-09	2.28E-09	1.07E-08	2.43E-12	3.53E-11	6.39E-10	6.39E-10	3.51E-10	1.67E-09	1.32E-12	1.91E-11	2.84E-10	2.84E-10	1.41E-10	7.29E-10
1960	256431.5	4083999	1.60E-11	2.32E-10	4.10E-09	4.10E-09	2.28E-09	1.07E-08	2.43E-12	3.53E-11	6.40E-10	6.40E-10	3.52E-10	1.67E-09	1.32E-12	1.91E-11	2.85E-10	2.85E-10	1.41E-10	7.30E-10
1961	256446.8	4083957	1.59E-11	2.30E-10	4.07E-09	4.07E-09	2.27E-09	1.07E-08	2.42E-12	3.51E-11	6.35E-10	6.35E-10	3.49E-10	1.66E-09	1.31E-12	1.90E-11	2.83E-10	2.83E-10	1.40E-10	7.26E-10
1962	256474.5	4083927	1.59E-11	2.30E-10	4.06E-09	4.06E-09	2.26E-09	1.06E-08	2.41E-12	3.50E-11	6.34E-10	6.34E-10	3.49E-10	1.65E-09	1.31E-12	1.90E-11	2.82E-10	2.82E-10	1.40E-10	7.24E-10
1963	256514.4	4083909	1.60E-11	2.31E-10	4.08E-09	4.08E-09	2.27E-09	1.07E-08	2.42E-12	3.52E-11	6.36E-10	6.36E-10	3.50E-10	1.66E-09	1.32E-12	1.90E-11	2.83E-10	2.83E-10	1.40E-10	7.27E-10
1964	256554.4	4083890	1.60E-11	2.31E-10	4.08E-09	4.08E-09	2.27E-09	1.07E-08	2.42E-12	3.52E-11	6.36E-10	6.36E-10	3.50E-10	1.66E-09	1.32E-12	1.90E-11	2.83E-10	2.83E-10	1.40E-10	7.27E-10
1965	256594.4	4083872	1.59E-11	2.30E-10	4.06E-09	4.06E-09	2.26E-09	1.06E-08	2.41E-12	3.50E-11	6.34E-10	6.34E-10	3.49E-10	1.65E-09	1.31E-12	1.90E-11	2.82E-10	2.82E-10	1.40E-10	7.24E-10
1966	256634.4	4083854	1.59E-11	2.29E-10	4.05E-09	4.05E-09	2.26E-09	1.06E-08	2.41E-12	3.49E-11	6.32E-10	6.32E-10	3.48E-10	1.65E-09	1.31E-12	1.89E-11	2.81E-10	2.81E-10	1.39E-10	7.22E-10
1967	256674.4	4083835	1.58E-11	2.29E-10	4.04E-09	4.04E-09	2.25E-09	1.06E-08	2.40E-12	3.49E-11	6.31E-10	6.31E-10	3.47E-10	1.65E-09	1.30E-12	1.89E-11	2.81E-10	2.81E-10	1.39E-10	7.21E-10
1968	256714.4	4083817	1.58E-11	2.29E-10	4.04E-09	4.04E-09	2.25E-09	1.06E-08	2.40E-12	3.48E-11	6.30E-10	6.30E-10	3.46E-10	1.64E-09	1.30E-12	1.88E-11	2.80E-10	2.80E-10	1.39E-10	7.20E-10
1969	256754.4	4083798	1.58E-11	2.28E-10	4.03E-09	4.03E-09	2.25E-09	1.05E-08	2.39E-12	3.48E-11	6.29E-10	6.29E-10	3.46E-10	1.64E-09	1.30E-12	1.88E-11	2.80E-10	2.80E-10	1.39E-10	7.18E-10
1970	256794.4	4083780	1.57E-11	2.27E-10	4.02E-09	4.02E-09	2.24E-09	1.05E-08	2.39E-12	3.46E-11	6.27E-10	6.27E-10	3.45E-10	1.64E-09	1.30E-12	1.87E-11	2.79E-10	2.79E-10	1.38E-10	7.16E-10
1971	256834.3	4083761	1.57E-11	2.27E-10	4.00E-09	4.00E-09	2.23E-09	1.05E-08	2.38E-12	3.45E-11	6.25E-10	6.25E-10	3.44E-10	1.63E-09	1.29E-12	1.87E-11	2.78E-10	2.78E-10	1.38E-10	7.14E-10
1972	256874.3	4083743	1.56E-11	2.26E-10	3.99E-09	3.99E-09	2.23E-09	1.05E-08	2.37E-12	3.45E-11	6.24E-10	6.24E-10	3.43E-10	1.63E-09	1.29E-12	1.86E-11	2.78E-10	2.78E-10	1.37E-10	7.12E-10
1973	256914.3	4083724	1.56E-11	2.25E-10	3.98E-09	3.98E-09	2.22E-09	1.04E-08	2.37E-12	3.43E-11	6.22E-10	6.22E-10	3.42E-10	1.62E-09	1.28E-12	1.86E-11	2.77E-10	2.77E-10	1.37E-10	7.10E-10
1974	256954.3	4083706	1.55E-11	2.25E-10	3.97E-09	3.97E-09	2.21E-09	1.04E-08	2.36E-12	3.42E-11	6.20E-10	6.20E-10	3.41E-10	1.62E-09	1.28E-12	1.85E-11	2.76E-10	2.76E-10	1.36E-10	7.08E-10
1975	256994.3	4083687	1.55E-11	2.24E-10	3.95E-09	3.95E-09	2.20E-09	1.04E-08	2.35E-12	3.41E-11	6.17E-10	6.17E-10	3.39E-10	1.61E-09	1.28E-12	1.85E-11	2.75E-10	2.75E-10	1.36E-10	7.05E-10
1976	257034.3	4083669	1.54E-11	2.23E-10	3.93E-09	3.93E-09	2.19E-09	1.03E-08	2.34E-12	3.39E-11	6.14E-10	6.14E-10	3.38E-10	1.60E-09	1.27E-12	1.84E-11	2.73E-10	2.73E-10	1.35E-10	7.01E-10
1977	257074.3	4083650	1.53E-11	2.21E-10	3.91E-09	3.91E-09	2.18E-09	1.02E-08	2.32E-12	3.37E-11	6.10E-10	6.10E-10	3.35E-10	1.59E-09	1.26E-12	1.82E-11	2.71E-10	2.71E-10	1.34E-10	6.97E-10
1978	257114.2	4083632	1.52E-11	2.19E-10	3.87E-09	3.87E-09	2.16E-09	1.01E-08	2.30E-12	3.34E-11	6.05E-10	6.05E-10	3.32E-10	1.58E-09	1.25E-12	1.81E-11	2.69E-10	2.69E-10	1.33E-10	6.91E-10
1979	257154.2	4083613	1.50E-11	2.17E-10	3.83E-09	3.83E-09	2.14E-09	1.00E-08	2.28E-12	3.31E-11	5.98E-10	5.98E-10	3.29E-10	1.56E-09	1.24E-12	1.79E-11	2.66E-10	2.66E-10	1.32E-10	6.83E-10
1980	257194.2	4083595	1.48E-11	2.14E-10	3.78E-09	3.78E-09	2.11E-09	9.89E-09	2.25E-12	3.26E-11	5.90E-10	5.90E-10	3.24E-10	1.54E-09	1.22E-12	1.76E-11	2.62E-10	2.62E-10	1.30E-10	6.74E-10
1981	257234.2	4083576	1.46E-11	2.11E-10	3.72E-09	3.72E-09	2.07E-09	9.73E-09	2.21E-12	3.21E-11	5.80E-10	5.80E-10	3.19E-10	1.51E-09	1.20E-12	1.74E-11	2.58E-10	2.58E-10	1.28E-10	6.63E-10
1982	257274.2	4083558	1.43E-11	2.07E-10	3.66E-09	3.66E-09	2.04E-09	9.57E-09	2.17E-12	3.15E-11	5.71E-10	5.71E-10	3.14E-10	1.49E-09	1.18E-12	1.71E-11	2.54E-10	2.54E-10	1.26E-10	6.52E-10
1983	257314.2	4083539	1.41E-11	2.04E-10	3.60E-09	3.60E-09	2.00E-09	9.41E-09	2.14E-12	3.10E-11	5.61E-10	5.61E-10	3.09E-10	1.46E-09	1.16E-12	1.68E-11	2.50E-10	2.50E-10	1.24E-10	6.41E-10
1984	257354.2	4083521	1.39E-11	2.01E-10	3.55E-09	3.55E-09	1.98E-09	9.29E-09	2.11E-12	3.06E-11	5.54E-10	5.54E-10	3.05E-10	1.45E-09	1.15E-12	1.66E-11	2.47E-10	2.47E-10	1.22E-10	6.33E-10
1985	257394.2	4083503	1.38E-11	1.99E-10	3.51E-09	3.51E-09	1.96E-09	9.20E-09	2.09E-12	3.03E-11	5.49E-10	5.49E-10	3.02E-10	1.43E-09	1.13E-12	1.64E-11	2.44E-10	2.44E-10	1.21E-10	6.27E-10
1986	257434.1	4083484	1.37E-11	1.98E-10	3.50E-09	3.50E-09	1.95E-09	9.17E-09	2.08E-12	3.02E-11	5.47E-10	5.47E-10	3.01E-10	1.43E-09	1.13E-12	1.63E-11	2.43E-10	2.43E-10	1.20E-10	6.24E-10
1987	256057.6	4085033	4.53E-11	6.55E-10	1.16E-08	1.16E-08	6.44E-09	3.03E-08	6.87E-12	9.97E-11	1.80E-09	1.80E-09	9.92E-10	4.71E-09	3.73E-12	5.40E-11	8.03E-10	8.03E-10	3.97E-10	2.06E-09
1988	256059.2	4085077	4.71E-11	6.81E-10	1.20E-08	1.20E-08	6.70E-09	3.15E-08	7.14E-12	1.04E-10	1.88E-09	1.88E-09	1.03E-09	4.90E-09	3.88E-12	5.61E-11	8.35E-10	8.35E-10	4.13E-10	2.14E-09
1989	256060.9	4085122	4.81E-11	6.96E-10	1.23E-08	1.23E-08	6.85E-09	3.22E-08	7.30E-12	1.06E-10	1.92E-09	1.92E-09	1.05E-09	5.00E-09	3.96E-12	5.73E-11	8.53E-10	8.53E-10	4.22E-10	2.19E-09
1990	256062.5	4085167	4.86E-11	7.03E-10	1.24E-08	1.24E-08	6.92E-09	3.25E-08	7.38E-12	1.07E-10	1.94E-09	1.94E-09	1.07E-09	5.06E-09	4.01E-12	5.80E-11	8.63E-10	8.63E-10	4.27E-10	2.21E-09
1991	256064.2	4085211	4.90E-11	7.09E-10	1.25E-08	1.25E-08	6.98E-09	3.28E-08	7.44E-12	1.08E-10	1.95E-09	1.95E-09	1.07E-09	5.10E-09	4.04E-12	5.84E-11	8.70E-10	8.70E-10	4.30E-10	2.23E-09
1992	257564.3	4085181	5.90E-09	8.54E-08	1.51E-06	1.51E-06	8.41E-07	3.95E-06	8.96E-10	1.30E-08	2.35E-07	2.35E-07	1.29E-07	6.14E-07	4.87E-10	7.04E-09	1.05E-07	1.05E-07	5.18E-08	2.69E-07
1993	257588.6	4085180	6.96E-09	1.01E-07	1.78E-06	1.78E-06	9.91E-07	4.65E-06	1.06E-09	1.53E-08	2.78E-07	2.78E-07	1.53E-07	7.24E-07	5.74E-10	8.30E-09	1.24E-07	1.24E-07	6.11E-08	3.17E-07
1994	257612.8	4085178	7.59E-09	1.10E-07	1.94E-06	1.94E-06	1.08E-06	5.07E-06	1.15E-09	1.67E-08	3.03E-07	3.03E-07	1.66E-07	7.90E-07	6.26E-10	9.05E-09	1.35E-07	1.35E-07	6.67E-08	3.46E-07
1995	257637.1	4085177	7.98E-09	1.15E-07	2.04E-06	2.04E-06	1.14E-06	5.33E-06	1.21E-09	1.76E-08	3.18E-07	3.18E-07	1.75E-07	8.30E-07	6.58E-10	9.51E-09	1.42E-07	1.42E-07	7.01E-08	3.63E-07
1996	257661.4	4085176	8.24E-09	1.19E-07	2.10E-06	2.10E-06	1.17E-06	5.51E-06	1.25E-09	1.82E-08	3.29E-07	3.29E-07	1.81E-07	8.57E-07	6.79E-10	9.82E-09	1.46E-07	1.46E-07	7.23E-08	3.75E-07
1997	257685.7	4085175	8.42E-09	1.22E-07	2.15E-06	2.15E-06	1.20E-06	5.63E-06	1.28E-09	1.86E-08	3.36E-07	3.36E-07	1.85E-07	8.76E-07	6.94E-10	1.00E-08	1.49E-07	1.49E-07	7.40E-08	3.84E-07
1998	257710	4085174	8.56E-09	1.24E-07	2.19E-06	2.19E-06	1.22E-06	5.72E-06	1.30E-09	1.89E-08	3.41E-07	3.41E-07	1.88E-07	8.90E-07	7.05E-10	1.02E-08	1.52E-07	1.52E-07	7.52E-08	3.90E-07
1999	257734.2	4085173	8.66E-09	1.25E-07	2.21E-06	2.21E-06	1.23E-06	5.79E-06	1.31E-09	1.91E-08	3.45E-07	3.45E-07	1.90E-07	9.01E-07	7.14E-10	1.03E-08	1.54E-07	1.54E-07	7.60E-08	3.94E-07
2000	257758.5	4085172	8.73E-09	1.26E-07	2.23E-06	2.23E-06	1.24E-06	5.84E-06	1.32E-09	1.92E-08	3.48E-07	3.48E-07	1.91E-07	9.08E-07	7.20E-10	1.04E-08	1.55E-07	1.55E-07	7.67E-08	3.98E-07
2001	257782.8	4085171	8.78E-09	1.27E-07	2.24E-06	2.24E-06	1.25E-06	5.87E-06	1.33E-09	1.94E-08	3.50E-07	3.50E-07	1.93E-07	9.14E-07	7.24E-10	1.05E-08	1.56E-07	1.56E-07	7.71E-08	4.00E-07
2002	257807.1	4085170	8.82E-09	1.28E-07	2.25E-06	2.25E-06	1.26E-06	5.90E-06	1.34E-09	1.94E-08	3.52E-07	3.52E-07	1.93E-07	9.18E-07	7.27E-10	1.05E-08	1.57E-07	1.57E-07	7.75E-08	4.02E-07

2003	257831.4	4085169	8.85E-09	1.28E-07	2.26E-06	2.26E-06	1.26E-06	5.92E-06	1.34E-09	1.95E-08	3.53E-07	3.53E-07	1.94E-07	9.21E-07	7.29E-10	1.05E-08	1.57E-07	1.57E-07	7.77E-08	4.03E-07
2004	257855.7	4085168	8.86E-09	1.28E-07	2.26E-06	2.26E-06	1.26E-06	5.93E-06	1.35E-09	1.95E-08	3.54E-07	3.54E-07	1.94E-07	9.22E-07	7.31E-10	1.06E-08	1.57E-07	1.57E-07	7.79E-08	4.04E-07
2005	257879.9	4085167	8.87E-09	1.28E-07	2.27E-06	2.27E-06	1.26E-06	5.93E-06	1.35E-09	1.96E-08	3.54E-07	3.54E-07	1.95E-07	9.23E-07	7.31E-10	1.06E-08	1.57E-07	1.57E-07	7.79E-08	4.04E-07
2006	257904.2	4085166	8.87E-09	1.28E-07	2.27E-06	2.27E-06	1.26E-06	5.93E-06	1.35E-09	1.95E-08	3.54E-07	3.54E-07	1.94E-07	9.23E-07	7.31E-10	1.06E-08	1.57E-07	1.57E-07	7.79E-08	4.04E-07
2007	257928.5	4085164	8.86E-09	1.28E-07	2.26E-06	2.26E-06	1.26E-06	5.93E-06	1.35E-09	1.95E-08	3.53E-07	3.53E-07	1.94E-07	9.22E-07	7.31E-10	1.06E-08	1.57E-07	1.57E-07	7.78E-08	4.04E-07
2008	257952.8	4085163	8.85E-09	1.28E-07	2.26E-06	2.26E-06	1.26E-06	5.92E-06	1.34E-09	1.95E-08	3.53E-07	3.53E-07	1.94E-07	9.20E-07	7.29E-10	1.05E-08	1.57E-07	1.57E-07	7.77E-08	4.03E-07
2009	257977.1	4085162	8.82E-09	1.28E-07	2.25E-06	2.25E-06	1.26E-06	5.90E-06	1.34E-09	1.94E-08	3.52E-07	3.52E-07	1.93E-07	9.18E-07	7.27E-10	1.05E-08	1.56E-07	1.56E-07	7.75E-08	4.02E-07
2010	258001.3	4085161	8.79E-09	1.27E-07	2.24E-06	2.24E-06	1.25E-06	5.88E-06	1.33E-09	1.94E-08	3.50E-07	3.50E-07	1.93E-07	9.14E-07	7.24E-10	1.05E-08	1.56E-07	1.56E-07	7.72E-08	4.00E-07
2011	258025.6	4085160	8.75E-09	1.27E-07	2.23E-06	2.23E-06	1.25E-06	5.85E-06	1.33E-09	1.93E-08	3.49E-07	3.49E-07	1.92E-07	9.10E-07	7.21E-10	1.04E-08	1.55E-07	1.55E-07	7.68E-08	3.98E-07
2012	258049.9	4085159	8.69E-09	1.26E-07	2.22E-06	2.22E-06	1.24E-06	5.81E-06	1.32E-09	1.92E-08	3.47E-07	3.47E-07	1.91E-07	9.05E-07	7.17E-10	1.04E-08	1.54E-07	1.54E-07	7.64E-08	3.96E-07
2013	258074.2	4085158	8.63E-09	1.25E-07	2.20E-06	2.20E-06	1.23E-06	5.77E-06	1.31E-09	1.90E-08	3.44E-07	3.44E-07	1.89E-07	8.97E-07	7.11E-10	1.03E-08	1.53E-07	1.53E-07	7.57E-08	3.93E-07
2014	258098.5	4085157	8.40E-09	1.22E-07	2.15E-06	2.15E-06	1.20E-06	5.62E-06	1.27E-09	1.85E-08	3.35E-07	3.35E-07	1.84E-07	8.74E-07	6.92E-10	1.00E-08	1.49E-07	1.49E-07	7.38E-08	3.83E-07
2015	258122.8	4085156	8.29E-09	1.20E-07	2.12E-06	2.12E-06	1.18E-06	5.54E-06	1.26E-09	1.83E-08	3.31E-07	3.31E-07	1.82E-07	8.62E-07	6.83E-10	9.88E-09	1.47E-07	1.47E-07	7.28E-08	3.78E-07
2016	258147	4085155	8.16E-09	1.18E-07	2.08E-06	2.08E-06	1.16E-06	5.46E-06	1.24E-09	1.80E-08	3.25E-07	3.25E-07	1.79E-07	8.49E-07	6.73E-10	9.73E-09	1.45E-07	1.45E-07	7.17E-08	3.72E-07
2017	258171.3	4085154	8.00E-09	1.16E-07	2.04E-06	2.04E-06	1.14E-06	5.35E-06	1.21E-09	1.76E-08	3.19E-07	3.19E-07	1.75E-07	8.32E-07	6.59E-10	9.53E-09	1.42E-07	1.42E-07	7.02E-08	3.64E-07
2018	258195.6	4085153	7.79E-09	1.13E-07	1.99E-06	1.99E-06	1.11E-06	5.21E-06	1.18E-09	1.72E-08	3.11E-07	3.11E-07	1.71E-07	8.10E-07	6.42E-10	9.28E-09	1.38E-07	1.38E-07	6.84E-08	3.55E-07
2019	258219.9	4085152	7.52E-09	1.09E-07	1.92E-06	1.92E-06	1.07E-06	5.03E-06	1.14E-09	1.66E-08	3.00E-07	3.00E-07	1.65E-07	7.82E-07	6.20E-10	8.96E-09	1.33E-07	1.33E-07	6.60E-08	3.42E-07
2020	258244.2	4085150	7.16E-09	1.04E-07	1.83E-06	1.83E-06	1.02E-06	4.79E-06	1.09E-09	1.58E-08	2.86E-07	2.86E-07	1.57E-07	7.45E-07	5.91E-10	8.54E-09	1.27E-07	1.27E-07	6.29E-08	3.26E-07
2021	258268.4	4085149	6.69E-09	9.68E-08	1.71E-06	1.71E-06	9.53E-07	4.48E-06	1.02E-09	1.47E-08	2.67E-07	2.67E-07	1.47E-07	6.96E-07	5.52E-10	7.98E-09	1.19E-07	1.19E-07	5.88E-08	3.05E-07
2022	258292.7	4085148	6.05E-09	8.75E-08	1.55E-06	1.55E-06	8.62E-07	4.05E-06	9.18E-10	1.33E-08	2.41E-07	2.41E-07	1.33E-07	6.30E-07	4.99E-10	7.21E-09	1.07E-07	1.07E-07	5.31E-08	2.76E-07
2023	258317	4085147	5.17E-09	7.47E-08	1.32E-06	1.32E-06	7.36E-07	3.45E-06	7.84E-10	1.14E-08	2.06E-07	2.06E-07	1.13E-07	5.37E-07	4.26E-10	6.16E-09	9.17E-08	9.17E-08	4.54E-08	2.35E-07
2024	258341.3	4085146	4.02E-09	5.82E-08	1.03E-06	1.03E-06	5.73E-07	2.69E-06	6.11E-10	8.86E-09	1.60E-07	1.60E-07	8.82E-08	4.19E-07	3.32E-10	4.80E-09	7.14E-08	7.14E-08	3.53E-08	1.83E-07
2025	258365.6	4085145	2.90E-09	4.19E-08	7.39E-07	7.39E-07	4.12E-07	1.94E-06	4.39E-10	6.38E-09	1.15E-07	1.15E-07	6.35E-08	3.01E-07	2.39E-10	3.45E-09	5.14E-08	5.14E-08	2.54E-08	1.32E-07
2026	257547.3	4085199	4.09E-09	5.91E-08	1.04E-06	1.04E-06	5.82E-07	2.73E-06	6.20E-10	9.01E-09	1.63E-07	1.63E-07	8.96E-08	4.25E-07	3.37E-10	4.87E-09	7.25E-08	7.25E-08	3.59E-08	1.86E-07
2027	257589.7	4085204	4.75E-09	6.88E-08	1.21E-06	1.21E-06	6.77E-07	3.18E-06	7.22E-10	1.05E-08	1.90E-07	1.90E-07	1.04E-07	4.95E-07	3.92E-10	5.67E-09	8.44E-08	8.44E-08	4.18E-08	2.17E-07
2028	257613.9	4085203	5.11E-09	7.39E-08	1.30E-06	1.30E-06	7.27E-07	3.42E-06	7.75E-10	1.13E-08	2.04E-07	2.04E-07	1.12E-07	5.31E-07	4.21E-10	6.09E-09	9.06E-08	9.06E-08	4.49E-08	2.33E-07
2029	257638.2	4085202	5.36E-09	7.75E-08	1.37E-06	1.37E-06	7.63E-07	3.58E-06	8.13E-10	1.18E-08	2.14E-07	2.14E-07	1.17E-07	5.57E-07	4.42E-10	6.39E-09	9.51E-08	9.51E-08	4.71E-08	2.44E-07
2030	257662.5	4085201	5.54E-09	8.01E-08	1.41E-06	1.41E-06	7.88E-07	3.70E-06	8.40E-10	1.22E-08	2.21E-07	2.21E-07	1.21E-07	5.76E-07	4.56E-10	6.60E-09	9.82E-08	9.82E-08	4.86E-08	2.52E-07
2031	257686.8	4085200	5.67E-09	8.20E-08	1.45E-06	1.45E-06	8.07E-07	3.79E-06	8.61E-10	1.25E-08	2.26E-07	2.26E-07	1.24E-07	5.90E-07	4.67E-10	6.76E-09	1.01E-07	1.01E-07	4.98E-08	2.58E-07
2032	257711.1	4085199	5.77E-09	8.35E-08	1.47E-06	1.47E-06	8.22E-07	3.86E-06	8.76E-10	1.27E-08	2.30E-07	2.30E-07	1.27E-07	6.00E-07	4.76E-10	6.88E-09	1.02E-07	1.02E-07	5.07E-08	2.63E-07
2033	257735.4	4085198	5.85E-09	8.46E-08	1.49E-06	1.49E-06	8.33E-07	3.91E-06	8.88E-10	1.29E-08	2.33E-07	2.33E-07	1.28E-07	6.09E-07	4.82E-10	6.97E-09	1.04E-07	1.04E-07	5.14E-08	2.66E-07
2034	257759.6	4085197	5.91E-09	8.55E-08	1.51E-06	1.51E-06	8.41E-07	3.95E-06	8.97E-10	1.30E-08	2.36E-07	2.36E-07	1.30E-07	6.15E-07	4.87E-10	7.04E-09	1.05E-07	1.05E-07	5.19E-08	2.69E-07
2035	257783.9	4085196	5.96E-09	8.61E-08	1.52E-06	1.52E-06	8.48E-07	3.98E-06	9.04E-10	1.31E-08	2.38E-07	2.38E-07	1.31E-07	6.20E-07	4.91E-10	7.10E-09	1.06E-07	1.06E-07	5.23E-08	2.71E-07
2036	257808.2	4085195	5.99E-09	8.66E-08	1.53E-06	1.53E-06	8.53E-07	4.01E-06	9.09E-10	1.32E-08	2.39E-07	2.39E-07	1.31E-07	6.23E-07	4.94E-10	7.14E-09	1.06E-07	1.06E-07	5.26E-08	2.73E-07
2037	257832.5	4085194	6.01E-09	8.70E-08	1.54E-06	1.54E-06	8.56E-07	4.02E-06	9.13E-10	1.33E-08	2.40E-07	2.40E-07	1.32E-07	6.26E-07	4.96E-10	7.17E-09	1.07E-07	1.07E-07	5.28E-08	2.74E-07
2038	257856.8	4085193	6.03E-09	8.72E-08	1.54E-06	1.54E-06	8.59E-07	4.03E-06	9.15E-10	1.33E-08	2.40E-07	2.40E-07	1.32E-07	6.27E-07	4.97E-10	7.19E-09	1.07E-07	1.07E-07	5.30E-08	2.75E-07
2039	257881	4085192	6.04E-09	8.73E-08	1.54E-06	1.54E-06	8.60E-07	4.04E-06	9.16E-10	1.33E-08	2.41E-07	2.41E-07	1.32E-07	6.28E-07	4.98E-10	7.20E-09	1.07E-07	1.07E-07	5.30E-08	2.75E-07
2040	257905.3	4085190	6.04E-09	8.73E-08	1.54E-06	1.54E-06	8.60E-07	4.04E-06	9.16E-10	1.33E-08	2.41E-07	2.41E-07	1.32E-07	6.28E-07	4.98E-10	7.20E-09	1.07E-07	1.07E-07	5.30E-08	2.75E-07
2041	257929.6	4085189	6.03E-09	8.72E-08	1.54E-06	1.54E-06	8.59E-07	4.03E-06	9.15E-10	1.33E-08	2.40E-07	2.40E-07	1.32E-07	6.27E-07	4.97E-10	7.19E-09	1.07E-07	1.07E-07	5.30E-08	2.75E-07
2042	257953.9	4085188	6.01E-09	8.70E-08	1.54E-06	1.54E-06	8.56E-07	4.02E-06	9.13E-10	1.33E-08	2.40E-07	2.40E-07	1.32E-07	6.26E-07	4.96E-10	7.17E-09	1.07E-07	1.07E-07	5.28E-08	2.74E-07
2043	257978.2	4085187	5.92E-09	8.56E-08	1.51E-06	1.51E-06	8.42E-07	3.96E-06	8.98E-10	1.30E-08	2.36E-07	2.36E-07	1.30E-07	6.15E-07	4.88E-10	7.05E-09	1.05E-07	1.05E-07	5.20E-08	2.69E-07
2044	258002.5	4085186	5.88E-09	8.51E-08	1.50E-06	1.50E-06	8.38E-07	3.93E-06	8.93E-10	1.30E-08	2.35E-07	2.35E-07	1.29E-07	6.12E-07	4.85E-10	7.01E-09	1.04E-07	1.04E-07	5.17E-08	2.68E-07
2045	258026.7	4085185	5.84E-09	8.45E-08	1.49E-06	1.49E-06	8.31E-07	3.90E-06	8.86E-10	1.29E-08	2.33E-07	2.33E-07	1.28E-07	6.08E-07	4.81E-10	6.96E-09	1.04E-07	1.04E-07	5.13E-08	2.66E-07
2046	258051	4085184	5.79E-09	8.37E-08	1.48E-06	1.48E-06	8.24E-07	3.87E-06	8.78E-10	1.27E-08	2.31E-07	2.31E-07	1.27E-07	6.02E-07	4.77E-10	6.90E-09	1.03E-07	1.03E-07	5.08E-08	2.63E-07
2047	258075.3	4085183	5.72E-09	8.27E-08	1.46E-06	1.46E-06	8.14E-07	3.82E-06	8.68E-10	1.26E-08	2.28E-07	2.28E-07	1.25E-07	5.95E-07	4.71E-10	6.82E-09	1.01E-07	1.01E-07	5.02E-08	2.60E-07
2048	258099.6	4085182	5.63E-09	8.15E-08	1.44E-06	1.44E-06	8.02E-07	3.77E-06	8.55E-10	1.24E-08	2.25E-07	2.25E-07	1.24E-07	5.86E-07	4.64E-10	6.72E-09	1.00E-07	1.00E-07	4.95E-08	2.57E-07
2049	258123.9	4085181	5.53E-09	8.00E-08	1.41E-06	1.41E-06	7.88E-07	3.70E-06	8.39E-10	1.22E-08	2.21E-07	2.21E-07	1.21E-07	5.75E-07	4.56E-10	6.59E-09	9.81E-08	9.81E-08	4.86E-08	2.52E-07
2050	258148.1	4085180	5.40E-09	7.82E-08	1.38E-06	1.38E-06	7.69E-07	3.61E-06	8.20E-10	1.19E-08	2.15E-07	2.15E-07	1.18E-07	5.62E-07	4.45E-10	6.44E-09	9.59E-08	9.59E-08	4.75E-08	2.46E-07
2051	258172.4	4085179	5.25E-09	7.59E-08	1.34E-06	1.34E-06	7.47E-07	3.51E-06	7.96E-10	1.16E-08	2.09E-07	2.09E-07	1.15E-07	5.46E-07	4.32E-10	6.25E-09	9.31E-08	9.31E-08	4.61E-08	2.39E-07
2052	258196.7	4085178	5.05E-09	7.30E-08	1.29E-06	1.29E-06	7.19E-07	3.38E-06	7.67E-10	1.11E-08	2.01E-07	2.01E-07	1.11E-07	5.25E-07	4.16E-10	6.02E-09	8.96E-08	8.96E-08	4.44E-08	2.30E-07
2053	258221	4085177	4.81E-09	6.95E-08	1.23E-06	1.23E-06	6.84E-07	3.21E-06	7.30E-10	1.06E-08	1.92E-07	1.92E-07	1.05E-07	5.00E-07	3.96E-10	5.73E-09	8.53E-08	8.53E-08	4.22E-08	2.19E-07
2054	258245.3	4085175	4.50E-09	6.51E-08	1.15E-06	1.15E-06	6.41E-07	3.01E-06	6.83E-10	9.92E-09	1.79E-07	1.79E-07	9.87E-08	4.68E-07	3.71E-10	5.37E-09	7.99E-08	7.99E-08	3.95E-08	2.05E-07
2055	258269.6	4085174	4.12E-09	5.96E-08	1.05E-06	1.05E-06	5.87E-07	2.75E-06	6.25E-10	9.08E-09	1.64E-07	1.64E-07	9.03E-08	4.29E-07	3.40E-10	4.91E-09	7.31E-08	7.31E-08	3.62E-08	1.88E-07
2056	258293.8	4085173	3.65E-09	5.29E-08	9.33E-07	9.33E-07	5.20E-07	2.44E-06	5.55E-10	8.05E-09	1.46E-07	1.46E-07	8.01E-08	3.80E-07	3.01E-10	4.36E-09	6.48E-08	6.48E-08	3.21E-08	1.66E-07
2057	258318.1	4085172	3.11E-09	4.49E-08	7.93E-07	7.93E-07	4.42E-07	2.08E-06	4.71E-10	6.85E-09	1.24E-07	1.24E-07	6.81E-08	3.23E-07	2.56E-10	3.70E-09	5.51E-08	5.51E-08	2.73E-08	1.41E-07
2058	258342.4	4085171	2.52E-09	3.65E-08	6.44E-07	6.44E-07	3.59E-07	1.69E-06	3.83E-10	5.55E-09	1.01E-07	1.01E-07	5.53E-08	2.62E-07	2.08E-10	3.01E-09	4.47E-08	4.47E-08	2.21E-08	1.15E-07
2059	257548.4	4085224	3.26E-09	4.71E-08	8.32E-07	8.32E-07	4.64E-07	2.18E-06	4.94E-10	7.18E-09	1.30E-07	1.30E-07	7.14E-08	3.39E-07	2.69E-10	3.88E-09	5.78E-08	5.78E-08	2.86E-08	1.48E-07
2060	257504.3	4085193	2.92E-09	4.22E-08	7.46E-07	7.46E-07	4.16E-07	1.95E-06	4.43E-10	6.43E-09	1.16E-07	1.16E-07	6.40E-08	3.04E-07	2.41E-10	3.48E-09	5.18E-08	5.18E-08	2.56E-08	1.33E-07
2061	257590.8	4085229	3.62E-09	5.23E-08	9.24E-07	9.24E-07	5.15E-07	2.42E-06	5.49E-10	7.97E-09	1.44E-07	1.44E-07	7.93E-08	3.76E-07	2.98E-10	4.31E-09	6.42E-08	6.42E-08	3.18E-08	1.65E-07
2062	257615	4085228	3.84E-09	5.56E-08	9.81E-07	9.81E-07	5.47E-07	2.57E-06	5.83E-10	8.46E-09	1.53E-07	1.53E-07	8.42E-08	4.00E-07	3.17E-10	4.58E-09	6.82E-08	6.82E-08	3.37E-08	1.75E-07
2063	257639.3	4085227	4.01E-09	5.81E-08	1.03E-06	1.03E-06	5.72E-07	2.68E-06	6.09E-10	8.84E-09	1.60E-07	1.60E-07	8.80E-08	4.18E-07	3.31E-10	4.79E-09	7.12E-08	7.12E-08	3.52E-08	1.83E-07
2064	257663.6	4085226	4.14E-09	5.99E-08	1.06E-06	1.06E-06	5.90E-07	2.77E-06	6.29E-10	9.13E-09	1.65E-07	1.65E-07	9.09E-08	4.31E-07	3.42E-10	4.94E-09	7.35E-08	7.35E-08	3.64E-08	1.89E-07
2065	257687.9	4085225	4.25E-09	6.14E-08	1.08E-06	1.08E-06	6.04E-07	2.84E-06	6.44E-10	9.35E-09	1.69E-07	1.69E-07	9.31E-08	4.42E-07	3.50E-10	5.06E-09	7.53E-08	7.53E-08	3.73E-08	1.93E-07
2066	257712.2	4085224	4.32E-09	6.25E-08	1.10E-06	1.10E-06	6.16E-07	2.89E-06	6.56E-10	9.53E-09	1.72E-07	1.72E-07	9.48E-08	4.50E-07	3.56E-10	5.15E-09	7.67E-08	7.67E-08	3.80E-08	1.97E-07
2067	257736.5	4085223	4.38E-09	6.34E-08	1.12E-06	1.12E-06	6.24E-07	2.93E-06	6.65E-10	9.66E-09	1.75E-07	1.75E-07	9.61E-08	4.56E-07	3.61E-10	5.23E-09	7.78E-08	7.78E-08	3.85E-08	2.00E-07
2068	257760.7	4085222	4.43E-09	6.41E-08	1.13E-06	1.13E-06	6.31E-07	2.96E-06	6.72E-10	9.76E-09	1.77E-07	1.77E-07	9.71E-08	4.61E-07	3.65E-10	5.28E-09	7.86E-08	7.86E-08	3.89E-08	2.02E-07
2069	257785	4085221	4.47E-09	6.46E-08	1.14E-06	1.14E-06	6.36E-07	2.99E-06	6.78E-10	9.84E-09	1.78E-07	1.78E-07	9.79E-08	4.65E-07	3.68E-10	5.32E-09	7.92E-08	7.92E-08	3.92E-08	2.03E-07
2070	257809.3	4085220	4.49E-09	6.50E-08	1.15E-06	1.15E-06	6.40E-07	3.00E-06	6.82E-10	9.90E-09	1.79E-07	1.79E-07	9.85E-08	4.67E-07	3.70E-10	5.35E-09	7.97E-08	7.97E-08	3.94E-08	2.05E-07
2071	257833.6	4085219	4.51E-09	6.52E-08	1.15E-06	1.15E-06	6.42E-07	3.02E-06	6.84E-10	9.94E-09	1.80E-07	1.80E-07	9.89E-08	4.69E-07	3.72E-10	5.38E-09	8.00E-08	8.00E-08	3.96E-08	2.05E-07
2072	257857.9	4085218	4.52E-09	6.54E-08	1.15E-06	1.15E-06	6.44E-07	3.02E-06	6.86E-10	9.96E-09	1.80E-07	1.80E-07	9.91E-08	4.70E-07	3.73E-10	5.39E-09	8.02E-08	8.02E-08	3.97E-08	2.06E-07
2073	257882.1	4085217	4.52E-09	6.54E-08	1.16E-06	1.16E-06	6.44E-07	3.02E-06	6.87E-10	9.97E-09	1.80E-07	1.80E-07	9.92E-08	4.71E-07	3.73E-10	5.39E-09	8.03E-08	8.03E-08	3.97E-08	2.06E-07
2074	257906.4	4085215	4.50E-09	6.51E-08	1.15E-06	1.15E-06	6.41E-07	3.01E-06	6.83E-10	9.92E-09	1.80E-07	1.80E-07	9.87E-08	4.69E-07	3.71E-10	5.37E-09	7.99E-08	7.99E-08	3.96E-08	2.05E-07
2075	257930.7	4085214	4.46E-09	6.45E-08	1.14E-06	1.14E-06	6.35E-07	2.98E-06	6.77E-10	9.83E-09	1.78E-07	1.78E-07	9.78E-08	4.64E-07	3.68E-10	5.32E-09	7.92E-08	7.92E-08	3.92E-08	2.03E-07
2076	257955	4085213	4.44E-09	6.43E-08	1.14E-06	1.14E-06	6.33E-07	2.97E-06	6.74E-10	9.79E-09	1.77E-07	1.77E-07	9.74E-08	4.62E-07	3.66E-10	5.30E-09	7.88E-08	7.88E-08	3.90E-08	2.02E-07
2077	257979.3	4085212	4.42E-09	6.39E-08	1.13E-06	1.13E-06	6.29E-07	2.95E-06	6.71E-10	9.74E-09	1.76E-07	1.76E-07	9.69E-08	4.60E-07	3.64E-10	5.27E-09	7.84E-08	7.84E-08	3.88E-08	2.01E-07
2078	258003.6	4085211	4.38E-09	6.34E-08	1.12E-06	1.12E-06	6.24E-07	2.93E-06	6.65E-10	9.66E-09	1.75E-07	1.75E-07	9.61E-08	4.56E-07	3.61E-10	5.23E-09	7.78E-08	7.78E-08	3.85E-08	2.00E-07
2079	258027.8	4085210	4.34E-09	6.28E-08	1.11E-06	1.11E-06	6.18E-07	2.90E-06	6.59E-10	9.56E-09	1.73E-07	1.73E-07	9.51E-08	4.51E-07	3.58E-10	5.17E-09	7.70E-08	7.70E-08	3.81E-08	1.98E-07
2080	258052.1	4085209	4.28E-09	6.20E-08	1.09E-06	1.09E-06	6.10E-07	2.86E-06	6.50E-10	9.44E-09	1.71E-07	1.71E-07	9.39E-08	4.46E-07	3.53E-10	5.11E-09	7.60E-08	7.60E-08	3.76E-08	1.95E-07
2081	258076.4	4085208	4.22E-09	6.10E-08	1.08E-06	1.08E-06	6.00E-07	2.82E-06	6.40E-10	9.29E-09	1.68E-07	1.68E-07	9.24E-08	4.39E-07	3.47E-10	5.03E-09	7.48E-08	7.48E-08	3.70E-08	1.92E-07
2082	258100.7	4085207	4.13E-09	5.98E-08	1.06E-06	1.06E-06	5.88E-07	2.76E-06	6.27E-10	9.10E-09	1.65E-07	1.65E-07	9.06E-08	4.30E-07	3.41E-10	4.93E-09	7.33E-08	7.33E-08	3.63E-08	1.88E-07
2083	258125	4085206	4.03E-09	5.83E-08	1.03E-06	1.03E-06	5.74E-07	2.70E-06	6.12E-10	8.88E-09	1.61E-07	1.61E-07	8.84E-08	4.19E-07	3.32E-10	4.81E-09	7.15E-08	7.15E-08	3.54E-08	1.84E-07
2084	258149.2	4085205	3.91E-09	5.66E-08	9.99E-07	9.99E-07	5.57E-07	2.62E-06	5.94E-10	8.62E-09	1.56E-07	1.56E-07	8.57E-08	4.07E-07	3.22E-10	4.66E-09	6.94E-08	6.94E-08	3.43E-08	1.78E-07
2085	258173.5	4085204	3.77E-09	5.45E-08	9.62E-07	9.62E-07	5.36E-07	2.52E-06	5.71E-10	8.30E-09	1.50E-07	1.50E-07	8.26E-08	3.92E-07	3.10E-10	4.49E-09	6.68E-08	6.68E-08	3.31E-08	1.71E-07
2086	258197.8	4085203	3.59E-09	5.19E-08	9.17E-07	9.17E-07	5.11E-07	2.40E-06	5.45E-10	7.91E-09	1.43E-07	1.43E-07	7.87E-08	3.74E-07	2.96E-10	4.28E-09	6.37E-08	6.37E-08	3.15E-08	1.64E-07
2087	258222.1	4085201	3.38E-09	4.89E-08	8.63E-07	8.63E-07	4.81E-07	2.26E-06	5.13E-10	7.45E-09	1.35E-07	1.35E-07	7.41E-08	3.52E-07	2.79E-10	4.03E-09	6.00E-08	6.00E-08	2.97E-08	1.54E-07
2088	258246.4	4085200	3.13E-09	4.53E-08	8.00E-07	8.00E-07	4.46E-07	2.09E-06	4.75E-10	6.90E-09	1.25E-07	1.25E-07	6.86E-08	3.26E-07	2.58E-10	3.73E-09	5.55E-08	5.55E-08	2.75E-08	1.43E-07
2089	258270.7	4085199	2.84E-09	4.11E-08	7.26E-07	7.26E-07	4.05E-07	1.90E-06	4.31E-10	6.26E-09	1.13E-07	1.13E-07	6.23E-08	2.96E-07	2.34E-10	3.39E-09	5.04E-08	5.04E-08	2.50E-08	1.29E-07
2090	258294.9	4085198	2.51E-09	3.64E-08	6.42E-07	6.42E-07	3.58E-07	1.68E-06	3.82E-10	5.54E-09	1.00E-07	1.00E-07	5.51E-08	2.62E-07	2.07E-10	3.00E-09	4.46E-08	4.46E-08	2.21E-08	1.14E-07
2091	258319.2	4085197	2.16E-09	3.13E-08	5.53E-07	5.53E-07	3.08E-07	1.45E-06	3.28E-10	4.77E-09	8.63E-08	8.63E-08	4.74E-08	2.25E-07	1.78E-10	2.58E-09	3.84E-08	3.84E-08	1.90E-08	9.85E-08
2092	258343.5	4085196	1.82E-09	2.63E-08	4.64E-07	4.64E-07	2.59E-07	1.21E-06	2.76E-10	4.00E-09	7.24E-08	7.24E-08	3.98E-08	1.89E-07	1.50E-10	2.17E-09	3.22E-08	3.22E-08	1.60E-08	8.27E-08
2093	258367.8	4085195	1.51E-09	2.18E-08	3.85E-07	3.85E-07	2.14E-07	1.01E-06	2.29E-10	3.32E-09	6.01E-08	6.01E-08	3.30E-08	1.57E-07	1.24E-10	1.80E-09	2.67E-08	2.67E-08	1.32E-08	6.86E-08
2094	257549.5	4085249	2.69E-09	3.89E-08	6.87E-07	6.87E-07	3.83E-07	1.80E-06	4.08E-10	5.92E-09	1.07E-07	1.07E-07	5.90E-08	2.80E-07	2.22E-10	3.21E-09	4.77E-08	4.77E-08	2.36E-08	1.22E-07
2095	257513.4	4085236	2.48E-09	3.59E-08	6.34E-07	6.34E-07	3.54E-07	1.66E-06	3.77E-10	5.47E-09	9.91E-08	9.91E-08	5.45E-08	2.58E-07	2.05E-10	2.96E-09	4.41E-08	4.41E-08	2.18E-08	1.13E-07
2096	257487.3	4085212	2.35E-09	3.40E-08	6.00E-07	6.00E-07	3.34E-07	1.57E-06	3.56E-10	5.18E-09	9.37E-08	9.37E-08	5.15E-08	2.44E-07	1.94E-10	2.80E-09	4.17E-08	4.17E-08	2.06E-08	1.07E-07
2097	257471.3	4085177	2.19E-09	3.17E-08	5.59E-07	5.59E-07	3.12E-07	1.46E-06	3.32E-10	4.83E-09	8.74E-08	8.74E-08	4.80E-08	2.28E-07	1.81E-10	2.61E-09	3.89E-08	3.89E-08	1.92E-08	9.98E-08
2098	257591.9	4085254	2.91E-09	4.21E-08	7.44E-07	7.44E-07	4.15E-07	1.95E-06	4.42E-10	6.42E-09	1.16E-07	1.16E-07	6.38E-08	3.03E-07	2.40E-10	3.47E-09	5.17E-08	5.17E-08	2.56E-08	1.33E-07
2099	257616.2	4085253	3.07E-09	4.44E-08	7.83E-07	7.83E-07	4.37E-07	2.05E-06	4.66E-10	6.76E-09	1.22E-07	1.22E-07	6.72E-08	3.19E-07	2.53E-10	3.66E-09	5.44E-08	5.44E-08	2.69E-08	1.40E-07
2100	257640.4	4085252	3.19E-09	4.62E-08	8.15E-07	8.15E-07	4.54E-07	2.13E-06	4.84E-10	7.03E-09	1.27E-07	1.27E-07	7.00E-08	3.32E-07	2.63E-10	3.80E-09	5.66E-08	5.66E-08	2.80E-08	1.45E-07
2101	257664.7	4085251	3.29E-09	4.76E-08	8.40E-07	8.40E-07	4.68E-07	2.20E-06	4.99E-10	7.25E-09	1.31E-07	1.31E-07	7.21E-08	3.42E-07	2.71E-10	3.92E-09	5.84E-08	5.84E-08	2.89E-08	1.50E-07
2102	257689	4085250	3.37E-09	4.87E-08	8.60E-07	8.60E-07	4.79E-07	2.25E-06	5.11E-10	7.42E-09	1.34E-07	1.34E-07	7.38E-08	3.50E-07	2.78E-10	4.01E-09	5.97E-08	5.97E-08	2.96E-08	1.53E-07
2103	257713.3	4085249	3.43E-09	4.96E-08	8.75E-07	8.75E-07	4.88E-07	2.29E-06	5.20E-10	7.55E-09	1.37E-07	1.37E-07	7.52E-08	3.57E-07	2.83E-10	4.09E-09	6.08E-08	6.08E-08	3.01E-08	1.56E-07
2104	257737.6	4085248	3.47E-09	5.03E-08	8.87E-07	8.87E-07	4.95E-07	2.32E-06	5.27E-10	7.66E-09	1.39E-07	1.39E-07	7.62E-08	3.62E-07	2.86E-10	4.14E-09	6.17E-08	6.17E-08	3.05E-08	1.58E-07
2105	257761.8	4085247	3.51E-09	5.08E-08	8.97E-07	8.97E-07	5.00E-07	2.35E-06	5.33E-10	7.74E-09	1.40E-07	1.40E-07	7.70E-08	3.65E-07	2.89E-10	4.19E-09	6.23E-08	6.23E-08	3.08E-08	1.60E-07
2106	257786.1	4085246	3.54E-09	5.12E-08	9.04E-07	9.04E-07	5.04E-07	2.37E-06	5.37E-10	7.80E-09	1.41E-07	1.41E-07	7.76E-08	3.68E-07	2.92E-10	4.22E-09	6.28E-08	6.28E-08	3.11E-08	1.61E-07
2107	257810.4	4085245	3.56E-09	5.14E-08	9.08E-07	9.08E-07	5.06E-07	2.38E-06	5.40E-10	7.84E-09	1.42E-07	1.42E-07	7.80E-08	3.70E-07	2.93E-10	4.24E-09	6.31E-08	6.31E-08	3.12E-08	1.62E-07
2108	257834.7	4085244	3.57E-09	5.16E-08	9.12E-07	9.12E-07	5.08E-07	2.39E-06	5.42E-10	7.86E-09	1.42E-07	1.42E-07	7.82E-08	3.71E-07	2.94E-10	4.25E-09	6.33E-08	6.33E-08	3.13E-08	1.63E-07
2109	257859	4085243	3.57E-09	5.17E-08	9.13E-07	9.13E-07	5.09E-07	2.39E-06	5.42E-10	7.87E-09	1.43E-07	1.43E-07	7.84E-08	3.72E-07	2.95E-10	4.26E-09	6.34E-08	6.34E-08	3.14E-08	1.63E-07
2110	257883.3	4085242	3.55E-09	5.13E-08	9.07E-07	9.07E-07	5.05E-07	2.37E-06	5.39E-10	7.82E-09	1.42E-07	1.42E-07	7.78E-08	3.69E-07	2.93E-10	4.23E-09	6.30E-08	6.30E-08	3.12E-08	1.62E-07
2111	257907.5	4085240	3.53E-09	5.11E-08	9.02E-07	9.02E-07	5.03E-07	2.36E-06	5.36E-10	7.78E-09	1.41E-07	1.41E-07	7.74E-08	3.67E-07	2.91E-10	4.21E-09	6.26E-08	6.26E-08	3.10E-08	1.61E-07
2112	257931.8	4085239	3.52E-09	5.09E-08	8.98E-07	8.98E-07	5.01E-07	2.35E-06	5.34E-10	7.75E-09	1.40E-07	1.40E-07	7.71E-08	3.66E-07	2.90E-10	4.19E-09	6.24E-08	6.24E-08	3.09E-08	1.60E-07
2113	257956.1	4085238	3.50E-09	5.06E-08	8.93E-07	8.93E-07	4.98E-07	2.34E-06	5.30E-10	7.70E-09	1.39E-07	1.39E-07	7.66E-08	3.64E-07	2.88E-10	4.17E-09	6.20E-08	6.20E-08	3.07E-08	1.59E-07
2114	257980.4	4085237	3.47E-09	5.01E-08	8.85E-07	8.85E-07	4.94E-07	2.32E-06	5.26E-10	7.64E-09	1.38E-07	1.38E-07	7.60E-08	3.61E-07	2.86E-10	4.13E-09	6.15E-08	6.15E-08	3.04E-08	1.58E-07
2115	258004.7	4085236	3.43E-09	4.96E-08	8.76E-07	8.76E-07	4.88E-07	2.29E-06	5.21E-10	7.56E-09	1.37E-07	1.37E-07	7.52E-08	3.57E-07	2.83E-10	4.09E-09	6.09E-08	6.09E-08	3.01E-08	1.56E-07
2116	258028.9	4085235	3.38E-09	4.89E-08	8.64E-07	8.64E-07	4.82E-07	2.26E-06	5.14E-10	7.46E-09	1.35E-07	1.35E-07	7.42E-08	3.52E-07	2.79E-10	4.03E-09	6.00E-08	6.00E-08	2.97E-08	1.54E-07
2117	258053.2	4085234	3.33E-09	4.81E-08	8.50E-07	8.50E-07	4.74E-07	2.23E-06	5.05E-10	7.33E-09	1.33E-07	1.33E-07	7.30E-08	3.46E-07	2.74E-10	3.97E-09	5.90E-08	5.90E-08	2.92E-08	1.52E-07
2118	258077.5	4085233	3.26E-09	4.72E-08	8.33E-07	8.33E-07	4.64E-07	2.18E-06	4.95E-10	7.18E-09	1.30E-07	1.30E-07	7.15E-08	3.39E-07	2.69E-10	3.89E-09	5.78E-08	5.78E-08	2.86E-08	1.48E-07
2119	258101.8	4085232	3.18E-09	4.60E-08	8.12E-07	8.12E-07	4.53E-07	2.13E-06	4.83E-10	7.01E-09	1.27E-07	1.27E-07	6.97E-08	3.31E-07	2.62E-10	3.79E-09	5.64E-08	5.64E-08	2.79E-08	1.45E-07
2120	258126.1	4085231	3.09E-09	4.46E-08	7.88E-07	7.88E-07	4.39E-07	2.06E-06	4.68E-10	6.80E-09	1.23E-07	1.23E-07	6.77E-08	3.21E-07	2.54E-10	3.68E-09	5.48E-08	5.48E-08	2.71E-08	1.41E-07

2121	258150.4	4085230	2.98E-09	4.30E-08	7.60E-07	7.60E-07	4.24E-07	1.99E-06	4.52E-10	6.56E-09	1.19E-07	1.19E-07	6.52E-08	3.10E-07	2.45E-10	3.55E-09	5.28E-08	5.28E-08	2.61E-08	1.36E-07
2122	258174.6	4085229	2.85E-09	4.12E-08	7.27E-07	7.27E-07	4.05E-07	1.90E-06	4.32E-10	6.27E-09	1.13E-07	1.13E-07	6.24E-08	2.96E-07	2.35E-10	3.39E-09	5.05E-08	5.05E-08	2.50E-08	1.30E-07
2123	258198.9	4085228	2.69E-09	3.90E-08	6.88E-07	6.88E-07	3.84E-07	1.80E-06	4.09E-10	5.94E-09	1.07E-07	1.07E-07	5.91E-08	2.80E-07	2.22E-10	3.21E-09	4.78E-08	4.78E-08	2.37E-08	1.23E-07
2124	258223.2	4085226	2.52E-09	3.65E-08	6.44E-07	6.44E-07	3.59E-07	1.69E-06	3.83E-10	5.55E-09	1.01E-07	1.01E-07	5.53E-08	2.62E-07	2.08E-10	3.00E-09	4.47E-08	4.47E-08	2.21E-08	1.15E-07
2125	258247.5	4085225	2.32E-09	3.36E-08	5.93E-07	5.93E-07	3.31E-07	1.55E-06	3.53E-10	5.12E-09	9.26E-08	9.26E-08	5.09E-08	2.42E-07	1.91E-10	2.77E-09	4.12E-08	4.12E-08	2.04E-08	1.06E-07
2126	258271.8	4085224	2.10E-09	3.04E-08	5.38E-07	5.38E-07	3.00E-07	1.41E-06	3.19E-10	4.64E-09	8.39E-08	8.39E-08	4.61E-08	2.19E-07	1.73E-10	2.51E-09	3.73E-08	3.73E-08	1.85E-08	9.58E-08
2127	258296	4085223	1.87E-09	2.71E-08	4.78E-07	4.78E-07	2.66E-07	1.25E-06	2.84E-10	4.12E-09	7.46E-08	7.46E-08	4.10E-08	1.95E-07	1.54E-10	2.23E-09	3.32E-08	3.32E-08	1.64E-08	8.52E-08
2128	258320.3	4085222	1.63E-09	2.36E-08	4.17E-07	4.17E-07	2.33E-07	1.09E-06	2.48E-10	3.60E-09	6.52E-08	6.52E-08	3.58E-08	1.70E-07	1.35E-10	1.95E-09	2.90E-08	2.90E-08	1.44E-08	7.44E-08
2129	258344.6	4085221	1.41E-09	2.03E-08	3.59E-07	3.59E-07	2.00E-07	9.40E-07	2.13E-10	3.10E-09	5.61E-08	5.61E-08	3.08E-08	1.46E-07	1.16E-10	1.68E-09	2.49E-08	2.49E-08	1.23E-08	6.40E-08
2130	257548.1	4085298	1.96E-09	2.84E-08	5.02E-07	5.02E-07	2.80E-07	1.31E-06	2.98E-10	4.33E-09	7.83E-08	7.83E-08	4.31E-08	2.04E-07	1.62E-10	2.34E-09	3.48E-08	3.48E-08	1.72E-08	8.94E-08
2131	257526.5	4085290	1.93E-09	2.79E-08	4.93E-07	4.93E-07	2.75E-07	1.29E-06	2.93E-10	4.25E-09	7.69E-08	7.69E-08	4.23E-08	2.01E-07	1.59E-10	2.30E-09	3.42E-08	3.42E-08	1.69E-08	8.78E-08
2132	257504.8	4085282	1.86E-09	2.70E-08	4.76E-07	4.76E-07	2.66E-07	1.25E-06	2.83E-10	4.11E-09	7.44E-08	7.44E-08	4.09E-08	1.94E-07	1.54E-10	2.22E-09	3.31E-08	3.31E-08	1.64E-08	8.49E-08
2133	257483.2	4085274	1.77E-09	2.56E-08	4.52E-07	4.52E-07	2.52E-07	1.18E-06	2.68E-10	3.90E-09	7.05E-08	7.05E-08	3.88E-08	1.84E-07	1.46E-10	2.11E-09	3.14E-08	3.14E-08	1.55E-08	8.05E-08
2134	257451.9	4085245	1.66E-09	2.41E-08	4.25E-07	4.25E-07	2.37E-07	1.11E-06	2.52E-10	3.66E-09	6.63E-08	6.63E-08	3.65E-08	1.73E-07	1.37E-10	1.98E-09	2.95E-08	2.95E-08	1.46E-08	7.57E-08
2135	257442.2	4085224	1.63E-09	2.36E-08	4.17E-07	4.17E-07	2.32E-07	1.09E-06	2.48E-10	3.60E-09	6.51E-08	6.51E-08	3.58E-08	1.70E-07	1.35E-10	1.95E-09	2.90E-08	2.90E-08	1.43E-08	7.43E-08
2136	257432.6	4085203	1.54E-09	2.23E-08	3.95E-07	3.95E-07	2.20E-07	1.03E-06	2.34E-10	3.40E-09	6.16E-08	6.16E-08	3.39E-08	1.61E-07	1.27E-10	1.84E-09	2.74E-08	2.74E-08	1.36E-08	7.03E-08
2137	257422.9	4085182	1.42E-09	2.05E-08	3.62E-07	3.62E-07	2.02E-07	9.46E-07	2.15E-10	3.12E-09	5.64E-08	5.64E-08	3.10E-08	1.47E-07	1.17E-10	1.69E-09	2.51E-08	2.51E-08	1.24E-08	6.45E-08
2138	257569.8	4085305	1.97E-09	2.85E-08	5.04E-07	5.04E-07	2.81E-07	1.32E-06	2.99E-10	4.35E-09	7.87E-08	7.87E-08	4.32E-08	2.05E-07	1.63E-10	2.35E-09	3.50E-08	3.50E-08	1.73E-08	8.98E-08
2139	257594.1	4085304	2.07E-09	3.00E-08	5.30E-07	5.30E-07	2.95E-07	1.39E-06	3.15E-10	4.57E-09	8.27E-08	8.27E-08	4.55E-08	2.16E-07	1.71E-10	2.47E-09	3.68E-08	3.68E-08	1.82E-08	9.44E-08
2140	257618.4	4085303	2.16E-09	3.12E-08	5.51E-07	5.51E-07	3.07E-07	1.44E-06	3.27E-10	4.75E-09	8.60E-08	8.60E-08	4.73E-08	2.24E-07	1.78E-10	2.57E-09	3.83E-08	3.83E-08	1.89E-08	9.82E-08
2141	257642.6	4085302	2.23E-09	3.22E-08	5.69E-07	5.69E-07	3.17E-07	1.49E-06	3.38E-10	4.91E-09	8.88E-08	8.88E-08	4.88E-08	2.32E-07	1.84E-10	2.65E-09	3.95E-08	3.95E-08	1.96E-08	1.01E-07
2142	257666.9	4085301	2.28E-09	3.30E-08	5.83E-07	5.83E-07	3.25E-07	1.53E-06	3.47E-10	5.03E-09	9.11E-08	9.11E-08	5.01E-08	2.38E-07	1.88E-10	2.72E-09	4.05E-08	4.05E-08	2.01E-08	1.04E-07
2143	257691.2	4085300	2.33E-09	3.37E-08	5.95E-07	5.95E-07	3.32E-07	1.56E-06	3.54E-10	5.14E-09	9.30E-08	9.30E-08	5.11E-08	2.43E-07	1.92E-10	2.78E-09	4.14E-08	4.14E-08	2.05E-08	1.06E-07
2144	257715.5	4085299	2.37E-09	3.43E-08	6.05E-07	6.05E-07	3.37E-07	1.58E-06	3.59E-10	5.22E-09	9.45E-08	9.45E-08	5.19E-08	2.46E-07	1.95E-10	2.82E-09	4.20E-08	4.20E-08	2.08E-08	1.08E-07
2145	257739.8	4085298	2.40E-09	3.47E-08	6.12E-07	6.12E-07	3.41E-07	1.60E-06	3.64E-10	5.28E-09	9.56E-08	9.56E-08	5.25E-08	2.49E-07	1.98E-10	2.86E-09	4.25E-08	4.25E-08	2.10E-08	1.09E-07
2146	257764.1	4085297	2.42E-09	3.50E-08	6.17E-07	6.17E-07	3.44E-07	1.62E-06	3.67E-10	5.33E-09	9.64E-08	9.64E-08	5.30E-08	2.51E-07	1.99E-10	2.88E-09	4.29E-08	4.29E-08	2.12E-08	1.10E-07
2147	257788.3	4085296	2.43E-09	3.51E-08	6.20E-07	6.20E-07	3.46E-07	1.62E-06	3.68E-10	5.35E-09	9.68E-08	9.68E-08	5.32E-08	2.52E-07	2.00E-10	2.89E-09	4.31E-08	4.31E-08	2.13E-08	1.11E-07
2148	257812.6	4085295	2.42E-09	3.51E-08	6.19E-07	6.19E-07	3.45E-07	1.62E-06	3.68E-10	5.34E-09	9.66E-08	9.66E-08	5.31E-08	2.52E-07	2.00E-10	2.89E-09	4.30E-08	4.30E-08	2.13E-08	1.10E-07
2149	257836.9	4085294	2.42E-09	3.51E-08	6.19E-07	6.19E-07	3.45E-07	1.62E-06	3.68E-10	5.34E-09	9.67E-08	9.67E-08	5.31E-08	2.52E-07	2.00E-10	2.89E-09	4.30E-08	4.30E-08	2.13E-08	1.10E-07
2150	257861.2	4085293	2.41E-09	3.49E-08	6.17E-07	6.17E-07	3.44E-07	1.61E-06	3.66E-10	5.32E-09	9.63E-08	9.63E-08	5.29E-08	2.51E-07	1.99E-10	2.88E-09	4.28E-08	4.28E-08	2.12E-08	1.10E-07
2151	257885.5	4085291	2.40E-09	3.48E-08	6.14E-07	6.14E-07	3.42E-07	1.61E-06	3.65E-10	5.30E-09	9.59E-08	9.59E-08	5.27E-08	2.50E-07	1.98E-10	2.87E-09	4.27E-08	4.27E-08	2.11E-08	1.10E-07
2152	257909.7	4085290	2.39E-09	3.46E-08	6.10E-07	6.10E-07	3.40E-07	1.60E-06	3.63E-10	5.27E-09	9.53E-08	9.53E-08	5.24E-08	2.49E-07	1.97E-10	2.85E-09	4.24E-08	4.24E-08	2.10E-08	1.09E-07
2153	257934	4085289	2.37E-09	3.43E-08	6.05E-07	6.05E-07	3.37E-07	1.58E-06	3.60E-10	5.22E-09	9.45E-08	9.45E-08	5.20E-08	2.47E-07	1.95E-10	2.83E-09	4.20E-08	4.20E-08	2.08E-08	1.08E-07
2154	257958.3	4085288	2.34E-09	3.39E-08	5.99E-07	5.99E-07	3.34E-07	1.57E-06	3.56E-10	5.16E-09	9.35E-08	9.35E-08	5.14E-08	2.44E-07	1.93E-10	2.79E-09	4.16E-08	4.16E-08	2.06E-08	1.07E-07
2155	257982.6	4085287	2.31E-09	3.34E-08	5.90E-07	5.90E-07	3.29E-07	1.55E-06	3.51E-10	5.09E-09	9.22E-08	9.22E-08	5.07E-08	2.41E-07	1.91E-10	2.76E-09	4.10E-08	4.10E-08	2.03E-08	1.05E-07
2156	258006.9	4085286	2.27E-09	3.29E-08	5.81E-07	5.81E-07	3.24E-07	1.52E-06	3.45E-10	5.01E-09	9.07E-08	9.07E-08	4.98E-08	2.37E-07	1.87E-10	2.71E-09	4.03E-08	4.03E-08	2.00E-08	1.04E-07
2157	258031.2	4085285	2.23E-09	3.22E-08	5.69E-07	5.69E-07	3.17E-07	1.49E-06	3.38E-10	4.91E-09	8.89E-08	8.89E-08	4.89E-08	2.32E-07	1.84E-10	2.66E-09	3.95E-08	3.95E-08	1.96E-08	1.02E-07
2158	258055.4	4085284	2.18E-09	3.15E-08	5.56E-07	5.56E-07	3.10E-07	1.46E-06	3.30E-10	4.80E-09	8.68E-08	8.68E-08	4.77E-08	2.26E-07	1.79E-10	2.60E-09	3.86E-08	3.86E-08	1.91E-08	9.91E-08
2159	258079.7	4085283	2.12E-09	3.06E-08	5.41E-07	5.41E-07	3.02E-07	1.42E-06	3.21E-10	4.67E-09	8.44E-08	8.44E-08	4.64E-08	2.20E-07	1.75E-10	2.52E-09	3.76E-08	3.76E-08	1.86E-08	9.64E-08
2160	258104	4085282	2.05E-09	2.96E-08	5.24E-07	5.24E-07	2.92E-07	1.37E-06	3.11E-10	4.52E-09	8.17E-08	8.17E-08	4.49E-08	2.13E-07	1.69E-10	2.44E-09	3.64E-08	3.64E-08	1.80E-08	9.34E-08
2161	258128.3	4085281	1.97E-09	2.85E-08	5.04E-07	5.04E-07	2.81E-07	1.32E-06	2.99E-10	4.35E-09	7.87E-08	7.87E-08	4.33E-08	2.05E-07	1.63E-10	2.35E-09	3.50E-08	3.50E-08	1.73E-08	8.99E-08
2162	258152.6	4085280	1.89E-09	2.73E-08	4.82E-07	4.82E-07	2.69E-07	1.26E-06	2.86E-10	4.16E-09	7.53E-08	7.53E-08	4.14E-08	1.96E-07	1.56E-10	2.25E-09	3.35E-08	3.35E-08	1.66E-08	8.60E-08
2163	258176.8	4085279	1.79E-09	2.59E-08	4.57E-07	4.57E-07	2.55E-07	1.20E-06	2.72E-10	3.95E-09	7.14E-08	7.14E-08	3.93E-08	1.86E-07	1.48E-10	2.14E-09	3.18E-08	3.18E-08	1.57E-08	8.16E-08
2164	258201.1	4085277	1.68E-09	2.44E-08	4.30E-07	4.30E-07	2.40E-07	1.13E-06	2.56E-10	3.71E-09	6.72E-08	6.72E-08	3.69E-08	1.75E-07	1.39E-10	2.01E-09	2.99E-08	2.99E-08	1.48E-08	7.67E-08
2165	258225.4	4085276	1.57E-09	2.27E-08	4.01E-07	4.01E-07	2.23E-07	1.05E-06	2.38E-10	3.46E-09	6.26E-08	6.26E-08	3.44E-08	1.63E-07	1.29E-10	1.87E-09	2.78E-08	2.78E-08	1.38E-08	7.14E-08
2166	258249.7	4085275	1.45E-09	2.09E-08	3.69E-07	3.69E-07	2.06E-07	9.66E-07	2.19E-10	3.18E-09	5.76E-08	5.76E-08	3.17E-08	1.50E-07	1.19E-10	1.72E-09	2.56E-08	2.56E-08	1.27E-08	6.58E-08
2167	258274	4085274	1.32E-09	1.91E-08	3.36E-07	3.36E-07	1.88E-07	8.81E-07	2.00E-10	2.90E-09	5.25E-08	5.25E-08	2.89E-08	1.37E-07	1.09E-10	1.57E-09	2.34E-08	2.34E-08	1.16E-08	6.00E-08
2168	258298.3	4085273	1.19E-09	1.72E-08	3.04E-07	3.04E-07	1.69E-07	7.95E-07	1.81E-10	2.62E-09	4.74E-08	4.74E-08	2.61E-08	1.24E-07	9.80E-11	1.42E-09	2.11E-08	2.11E-08	1.04E-08	5.42E-08
2169	258322.5	4085272	1.06E-09	1.54E-08	2.72E-07	2.72E-07	1.52E-07	7.12E-07	1.62E-10	2.35E-09	4.24E-08	4.24E-08	2.33E-08	1.11E-07	8.77E-11	1.27E-09	1.89E-08	1.89E-08	9.35E-09	4.85E-08
2170	258346.8	4085271	9.44E-10	1.37E-08	2.41E-07	2.41E-07	1.34E-07	6.32E-07	1.43E-10	2.08E-09	3.77E-08	3.77E-08	2.07E-08	9.83E-08	7.78E-11	1.13E-09	1.68E-08	1.68E-08	8.29E-09	4.30E-08
2171	258371.1	4085270	8.36E-10	1.21E-08	2.13E-07	2.13E-07	1.19E-07	5.59E-07	1.27E-10	1.84E-09	3.33E-08	3.33E-08	1.83E-08	8.69E-08	6.89E-11	9.96E-10	1.48E-08	1.48E-08	7.34E-09	3.81E-08
2172	257551.4	4085348	1.52E-09	2.21E-08	3.89E-07	3.89E-07	2.17E-07	1.02E-06	2.31E-10	3.36E-09	6.08E-08	6.08E-08	3.34E-08	1.59E-07	1.26E-10	1.82E-09	2.71E-08	2.71E-08	1.34E-08	6.94E-08
2173	257510.1	4085333	1.49E-09	2.16E-08	3.81E-07	3.81E-07	2.13E-07	9.99E-07	2.27E-10	3.29E-09	5.96E-08	5.96E-08	3.27E-08	1.55E-07	1.23E-10	1.78E-09	2.65E-08	2.65E-08	1.31E-08	6.80E-08
2174	257468.9	4085318	1.41E-09	2.03E-08	3.59E-07	3.59E-07	2.00E-07	9.40E-07	2.13E-10	3.10E-09	5.61E-08	5.61E-08	3.08E-08	1.46E-07	1.16E-10	1.68E-09	2.49E-08	2.49E-08	1.23E-08	6.40E-08
2175	257418.4	4085283	1.27E-09	1.84E-08	3.24E-07	3.24E-07	1.81E-07	8.49E-07	1.93E-10	2.80E-09	5.06E-08	5.06E-08	2.78E-08	1.32E-07	1.05E-10	1.51E-09	2.25E-08	2.25E-08	1.11E-08	5.78E-08
2176	257400	4085243	1.22E-09	1.76E-08	3.10E-07	3.10E-07	1.73E-07	8.13E-07	1.84E-10	2.68E-09	4.85E-08	4.85E-08	2.66E-08	1.26E-07	1.00E-10	1.45E-09	2.16E-08	2.16E-08	1.07E-08	5.53E-08
2177	257381.7	4085203	1.06E-09	1.53E-08	2.70E-07	2.70E-07	1.51E-07	7.07E-07	1.60E-10	2.33E-09	4.22E-08	4.22E-08	2.32E-08	1.10E-07	8.72E-11	1.26E-09	1.88E-08	1.88E-08	9.29E-09	4.82E-08
2178	257596.3	4085354	1.58E-09	2.29E-08	4.04E-07	4.04E-07	2.25E-07	1.06E-06	2.40E-10	3.48E-09	6.30E-08	6.30E-08	3.46E-08	1.64E-07	1.30E-10	1.88E-09	2.80E-08	2.80E-08	1.39E-08	7.20E-08
2179	257620.6	4085353	1.63E-09	2.36E-08	4.16E-07	4.16E-07	2.32E-07	1.09E-06	2.47E-10	3.59E-09	6.50E-08	6.50E-08	3.57E-08	1.70E-07	1.34E-10	1.94E-09	2.89E-08	2.89E-08	1.43E-08	7.42E-08
2180	257644.9	4085352	1.67E-09	2.42E-08	4.27E-07	4.27E-07	2.38E-07	1.12E-06	2.53E-10	3.68E-09	6.66E-08	6.66E-08	3.66E-08	1.74E-07	1.38E-10	1.99E-09	2.96E-08	2.96E-08	1.47E-08	7.61E-08
2181	257669.1	4085351	1.70E-09	2.46E-08	4.35E-07	4.35E-07	2.43E-07	1.14E-06	2.59E-10	3.75E-09	6.79E-08	6.79E-08	3.73E-08	1.77E-07	1.40E-10	2.03E-09	3.02E-08	3.02E-08	1.50E-08	7.76E-08
2182	257693.4	4085350	1.73E-09	2.50E-08	4.42E-07	4.42E-07	2.47E-07	1.16E-06	2.63E-10	3.81E-09	6.90E-08	6.90E-08	3.80E-08	1.80E-07	1.43E-10	2.06E-09	3.07E-08	3.07E-08	1.52E-08	7.88E-08
2183	257717.7	4085349	1.75E-09	2.54E-08	4.48E-07	4.48E-07	2.50E-07	1.17E-06	2.66E-10	3.86E-09	6.99E-08	6.99E-08	3.84E-08	1.82E-07	1.44E-10	2.09E-09	3.11E-08	3.11E-08	1.54E-08	7.98E-08
2184	257742	4085348	1.76E-09	2.55E-08	4.51E-07	4.51E-07	2.51E-07	1.18E-06	2.68E-10	3.89E-09	7.04E-08	7.04E-08	3.87E-08	1.84E-07	1.45E-10	2.10E-09	3.13E-08	3.13E-08	1.55E-08	8.04E-08
2185	257766.3	4085347	1.77E-09	2.56E-08	4.51E-07	4.51E-07	2.52E-07	1.18E-06	2.68E-10	3.89E-09	7.04E-08	7.04E-08	3.87E-08	1.84E-07	1.46E-10	2.11E-09	3.13E-08	3.13E-08	1.55E-08	8.05E-08
2186	257790.6	4085346	1.77E-09	2.56E-08	4.52E-07	4.52E-07	2.52E-07	1.18E-06	2.69E-10	3.90E-09	7.06E-08	7.06E-08	3.88E-08	1.84E-07	1.46E-10	2.11E-09	3.14E-08	3.14E-08	1.55E-08	8.06E-08
2187	257814.8	4085345	1.77E-09	2.56E-08	4.52E-07	4.52E-07	2.52E-07	1.18E-06	2.68E-10	3.90E-09	7.06E-08	7.06E-08	3.88E-08	1.84E-07	1.46E-10	2.11E-09	3.14E-08	3.14E-08	1.55E-08	8.06E-08
2188	257839.1	4085344	1.76E-09	2.55E-08	4.50E-07	4.50E-07	2.51E-07	1.18E-06	2.68E-10	3.89E-09	7.03E-08	7.03E-08	3.87E-08	1.83E-07	1.45E-10	2.10E-09	3.13E-08	3.13E-08	1.55E-08	8.03E-08
2189	257863.4	4085343	1.75E-09	2.54E-08	4.48E-07	4.48E-07	2.50E-07	1.17E-06	2.66E-10	3.86E-09	6.99E-08	6.99E-08	3.85E-08	1.82E-07	1.45E-10	2.09E-09	3.11E-08	3.11E-08	1.54E-08	7.99E-08
2190	257887.7	4085341	1.74E-09	2.52E-08	4.44E-07	4.44E-07	2.48E-07	1.16E-06	2.64E-10	3.83E-09	6.94E-08	6.94E-08	3.81E-08	1.81E-07	1.43E-10	2.07E-09	3.09E-08	3.09E-08	1.53E-08	7.92E-08
2191	257912	4085340	1.72E-09	2.49E-08	4.40E-07	4.40E-07	2.45E-07	1.15E-06	2.61E-10	3.79E-09	6.87E-08	6.87E-08	3.77E-08	1.79E-07	1.42E-10	2.05E-09	3.05E-08	3.05E-08	1.51E-08	7.84E-08
2192	257936.2	4085339	1.70E-09	2.46E-08	4.34E-07	4.34E-07	2.42E-07	1.14E-06	2.58E-10	3.74E-09	6.78E-08	6.78E-08	3.73E-08	1.77E-07	1.40E-10	2.03E-09	3.02E-08	3.02E-08	1.49E-08	7.74E-08
2193	257960.5	4085338	1.67E-09	2.42E-08	4.27E-07	4.27E-07	2.38E-07	1.12E-06	2.54E-10	3.69E-09	6.67E-08	6.67E-08	3.67E-08	1.74E-07	1.38E-10	1.99E-09	2.97E-08	2.97E-08	1.47E-08	7.62E-08
2194	257984.8	4085337	1.64E-09	2.38E-08	4.20E-07	4.20E-07	2.34E-07	1.10E-06	2.49E-10	3.62E-09	6.55E-08	6.55E-08	3.60E-08	1.71E-07	1.35E-10	1.96E-09	2.91E-08	2.91E-08	1.44E-08	7.48E-08
2195	258009.1	4085336	1.61E-09	2.33E-08	4.11E-07	4.11E-07	2.29E-07	1.08E-06	2.44E-10	3.54E-09	6.41E-08	6.41E-08	3.52E-08	1.67E-07	1.33E-10	1.92E-09	2.85E-08	2.85E-08	1.41E-08	7.32E-08
2196	258033.4	4085335	1.57E-09	2.27E-08	4.01E-07	4.01E-07	2.23E-07	1.05E-06	2.38E-10	3.46E-09	6.26E-08	6.26E-08	3.44E-08	1.63E-07	1.29E-10	1.87E-09	2.78E-08	2.78E-08	1.38E-08	7.14E-08
2197	258057.7	4085334	1.53E-09	2.21E-08	3.89E-07	3.89E-07	2.17E-07	1.02E-06	2.31E-10	3.36E-09	6.08E-08	6.08E-08	3.34E-08	1.59E-07	1.26E-10	1.82E-09	2.71E-08	2.71E-08	1.34E-08	6.95E-08
2198	258081.9	4085333	1.48E-09	2.14E-08	3.77E-07	3.77E-07	2.10E-07	9.87E-07	2.24E-10	3.25E-09	5.89E-08	5.89E-08	3.24E-08	1.54E-07	1.22E-10	1.76E-09	2.62E-08	2.62E-08	1.30E-08	6.73E-08
2199	258106.2	4085332	1.42E-09	2.06E-08	3.64E-07	3.64E-07	2.03E-07	9.52E-07	2.16E-10	3.14E-09	5.68E-08	5.68E-08	3.12E-08	1.48E-07	1.17E-10	1.70E-09	2.53E-08	2.53E-08	1.25E-08	6.48E-08
2200	258130.5	4085331	1.36E-09	1.97E-08	3.49E-07	3.49E-07	1.94E-07	9.12E-07	2.07E-10	3.01E-09	5.44E-08	5.44E-08	2.99E-08	1.42E-07	1.12E-10	1.63E-09	2.42E-08	2.42E-08	1.20E-08	6.21E-08
2201	258154.8	4085330	1.30E-09	1.88E-08	3.32E-07	3.32E-07	1.85E-07	8.69E-07	1.97E-10	2.86E-09	5.18E-08	5.18E-08	2.85E-08	1.35E-07	1.07E-10	1.55E-09	2.31E-08	2.31E-08	1.14E-08	5.92E-08
2202	258179.1	4085329	1.23E-09	1.78E-08	3.14E-07	3.14E-07	1.75E-07	8.22E-07	1.87E-10	2.71E-09	4.90E-08	4.90E-08	2.70E-08	1.28E-07	1.01E-10	1.47E-09	2.18E-08	2.18E-08	1.08E-08	5.60E-08
2203	258203.3	4085327	1.15E-09	1.67E-08	2.95E-07	2.95E-07	1.64E-07	7.72E-07	1.75E-10	2.54E-09	4.60E-08	4.60E-08	2.53E-08	1.20E-07	9.52E-11	1.38E-09	2.05E-08	2.05E-08	1.01E-08	5.26E-08
2204	258227.6	4085326	1.08E-09	1.56E-08	2.75E-07	2.75E-07	1.53E-07	7.20E-07	1.63E-10	2.37E-09	4.29E-08	4.29E-08	2.36E-08	1.12E-07	8.87E-11	1.28E-09	1.91E-08	1.91E-08	9.45E-09	4.90E-08
2205	258251.9	4085325	9.97E-10	1.44E-08	2.55E-07	2.55E-07	1.42E-07	6.67E-07	1.51E-10	2.20E-09	3.98E-08	3.98E-08	2.19E-08	1.04E-07	8.22E-11	1.19E-09	1.77E-08	1.77E-08	8.75E-09	4.54E-08
2206	258276.2	4085324	9.18E-10	1.33E-08	2.34E-07	2.34E-07	1.31E-07	6.14E-07	1.39E-10	2.02E-09	3.66E-08	3.66E-08	2.01E-08	9.55E-08	7.57E-11	1.09E-09	1.63E-08	1.63E-08	8.06E-09	4.18E-08
2207	258300.5	4085323	8.40E-10	1.22E-08	2.15E-07	2.15E-07	1.20E-07	5.62E-07	1.28E-10	1.85E-09	3.35E-08	3.35E-08	1.84E-08	8.74E-08	6.93E-11	1.00E-09	1.49E-08	1.49E-08	7.38E-09	3.83E-08
2208	258324.8	4085322	7.64E-10	1.11E-08	1.95E-07	1.95E-07	1.09E-07	5.11E-07	1.16E-10	1.68E-09	3.05E-08	3.05E-08	1.68E-08	7.95E-08	6.30E-11	9.11E-10	1.36E-08	1.36E-08	6.71E-09	3.48E-08
2209	258349	4085321	6.92E-10	1.00E-08	1.77E-07	1.77E-07	9.85E-08	4.62E-07	1.05E-10	1.52E-09	2.76E-08	2.76E-08	1.52E-08	7.20E-08	5.70E-11	8.25E-10	1.23E-08	1.23E-08	6.07E-09	3.15E-08
2210	258373.3	4085320	6.25E-10	9.04E-09	1.60E-07	1.60E-07	8.90E-08	4.18E-07	9.48E-11	1.38E-09	2.49E-08	2.49E-08	1.37E-08	6.50E-08	5.15E-11	7.45E-10	1.11E-08	1.11E-08	5.49E-09	2.85E-08
2211	257551.7	4085397	1.22E-09	1.77E-08	3.13E-07	3.13E-07	1.74E-07	8.18E-07	1.86E-10	2.70E-09	4.88E-08	4.88E-08	2.68E-08	1.27E-07	1.01E-10	1.46E-09	2.17E-08	2.17E-08	1.08E-08	5.57E-08
2212	257529.1	4085389	1.22E-09	1.77E-08	3.13E-07	3.13E-07	1.74E-07	8.18E-07	1.86E-10	2.70E-09	4.88E-08	4.88E-08	2.68E-08	1.27E-07	1.01E-10	1.46E-09	2.17E-08	2.17E-08	1.07E-08	5.57E-08
2213	257506.5	4085381	1.21E-09	1.76E-08	3.10E-07	3.10E-07	1.73E-07	8.12E-07	1.84E-10	2.68E-09	4.84E-08	4.84E-08	2.66E-08	1.26E-07	1.00E-10	1.45E-09	2.15E-08	2.15E-08	1.07E-08	5.53E-08
2214	257484	4085372	1.20E-09	1.73E-08	3.05E-07	3.05E-07	1.70E-07	8.00E-07	1.82E-10	2.64E-09	4.77E-08	4.77E-08	2.62E-08	1.24E-07	9.86E-11	1.43E-09	2.12E-08	2.12E-08	1.05E-08	5.45E-08
2215	257461.4	4085364	1.17E-09	1.69E-08	2.98E-07	2.98E-07	1.66E-07	7.80E-07	1.77E-10	2.57E-09	4.65E-08	4.65E-08	2.56E-08	1.21E-07	9.62E-11	1.39E-09	2.07E-08	2.07E-08	1.02E-08	5.31E-08
2216	257438.8	4085356	1.12E-09	1.63E-08	2.87E-07	2.87E-07	1.60E-07	7.52E-07	1.71E-10	2.48E-09	4.49E-08	4.49E-08	2.47E-08	1.17E-07	9.27E-11	1.34E-09	2.00E-08	2.00E-08	9.88E-09	5.12E-08
2217	257416.3	4085348	1.07E-09	1.55E-08	2.74E-07	2.74E-07	1.53E-07	7.17E-07	1.63E-10	2.36E-09	4.27E-08	4.27E-08	2.35E-08	1.12E-07	8.84E-11	1.28E-09	1.90E-08	1.90E-08	9.41E-09	4.88E-08
2218	257383.7	4085318	1.02E-09	1.47E-08	2.60E-07	2.60E-07	1.45E-07	6.80E-07	1.54E-10	2.24E-09	4.05E-08	4.05E-08	2.23E-08	1.06E-07	8.38E-11	1.21E-09	1.80E-08	1.80E-08	8.93E-09	4.63E-08
2219	257373.6	4085296	1.01E-09	1.45E-08	2.57E-07	2.57E-07	1.43E-07	6.73E-07	1.53E-10	2.22E-09	4.01E-08	4.01E-08	2.21E-08	1.05E-07	8.29E-11	1.20E-09	1.78E-08	1.78E-08	8.83E-09	4.58E-08
2220	257363.6	4085274	9.75E-10	1.41E-08	2.49E-07	2.49E-07	1.39E-07	6.52E-07	1.48E-10	2.15E-09	3.89E-08	3.89E-08	2.14E-08	1.01E-07	8.04E-11	1.16E-09	1.73E-08	1.73E-08	8.57E-09	4.44E-08
2221	257353.5	4085252	9.24E-10	1.34E-08	2.36E-07	2.36E-07	1.32E-07	6.18E-07	1.40E-10	2.04E-09	3.68E-08	3.68E-08	2.02E-08	9.61E-08	7.61E-11	1.10E-09	1.64E-08	1.64E-08	8.11E-09	4.21E-08
2222	257343.5	4085230	8.54E-10	1.23E-08	2.18E-07	2.18E-07	1.22E-07	5.71E-07	1.30E-10	1.88E-09	3.40E-08	3.40E-08	1.87E-08	8.88E-08	7.04E-11	1.02E-09	1.51E-08	1.51E-08	7.50E-09	3.89E-08
2223	257333.4	4085209	7.73E-10	1.12E-08	1.97E-07	1.97E-07	1.10E-07	5.17E-07	1.17E-10	1.70E-09	3.08E-08	3.08E-08	1.69E-08	8.04E-08	6.37E-11	9.22E-10	1.37E-08	1.37E-08	6.79E-09	3.52E-08
2224	257323.4	4085187	6.88E-10	9.95E-09	1.76E-07	1.76E-07	9.80E-08	4.60E-07	1.04E-10	1.52E-09	2.74E-08	2.74E-08	1.51E-08	7.16E-08	5.67E-11	8.21E-10	1.22E-08	1.22E-08	6.04E-09	3.13E-08
2225	257574.2	4085405	1.22E-09	1.76E-08	3.10E-07	3.10E-07	1.73E-07	8.13E-07	1.84E-10	2.68E-09	4.85E-08	4.85E-08	2.67E-08	1.26E-07	1.00E-10	1.45E-09	2.16E-08	2.16E-08	1.07E-08	5.54E-08
2226	257598.5	4085404	1.25E-09	1.81E-08	3.20E-07	3.20E-07	1.78E-07	8.37E-07	1.90E-10	2.76E-09	4.99E-08	4.99E-08	2.74E-08	1.30E-07	1.03E-10	1.49E-09	2.22E-08	2.22E-08	1.10E-08	5.70E-08
2227	257622.8	4085403	1.28E-09	1.85E-08	3.27E-07	3.27E-07	1.82E-07	8.56E-07	1.94E-10	2.82E-09	5.11E-08	5.11E-08	2.81E-08	1.33E-07	1.06E-10	1.53E-09	2.27E-08	2.27E-08	1.12E-08	5.83E-08
2228	257647.1	4085402	1.30E-09	1.89E-08	3.33E-07	3.33E-07	1.86E-07	8.72E-07	1.98E-10	2.87E-09	5.20E-08	5.20E-08	2.86E-08	1.36E-07	1.08E-10	1.55E-09	2.31E-08	2.31E-08	1.15E-08	5.94E-08
2229	257671.4	4085401	1.32E-09	1.91E-08	3.38E-07	3.38E-07	1.88E-07	8.85E-07	2.01E-10	2.91E-09	5.28E-08	5.28E-08	2.90E-08	1.38E-07	1.09E-10	1.58E-09	2.35E-08	2.35E-08	1.16E-08	6.02E-08
2230	257695.6	4085400	1.34E-09	1.93E-08	3.41E-07	3.41E-07	1.90E-07	8.94E-07	2.03E-10	2.94E-09	5.33E-08	5.33E-08	2.93E-08	1.39E-07	1.10E-10	1.59E-09	2.37E-08	2.37E-08	1.17E-08	6.09E-08
2231	257719.9	4085399	1.34E-09	1.94E-08	3.42E-07	3.42E-07	1.91E-07	8.96E-07	2.03E-10	2.95E-09	5.34E-08	5.34E-08	2.94E-08	1.39E-07	1.10E-10	1.60E-09	2.38E-08	2.38E-08	1.18E-08	6.10E-08
2232	257744.2	4085398	1.35E-09	1.95E-08	3.44E-07	3.44E-07	1.92E-07	9.01E-07	2.05E-10	2.97E-09	5.37E-08	5.37E-08	2.95E-08	1.40E-07	1.11E-10	1.61E-09	2.39E-08	2.39E-08	1.18E-08	6.14E-08
2233	257768.5	4085397	1.35E-09	1.95E-08	3.45E-07	3.45E-07	1.92E-07	9.03E-07	2.05E-10	2.98E-09	5.39E-08	5.39E-08	2.96E-08	1.41E-07	1.11E-10	1.61E-09	2.40E-08	2.40E-08	1.19E-08	6.15E-08
2234	257792.8	4085396	1.35E-09	1.95E-08	3.45E-07	3.45E-07	1.92E-07	9.02E-07	2.05E-10	2.97E-09	5.38E-08	5.38E-08	2.96E-08	1.40E-07	1.11E-10	1.61E-09	2.39E-08	2.39E-08	1.19E-08	6.15E-08
2235	257817	4085395	1.34E-09	1.95E-08	3.43E-07	3.43E-07	1.91E-07	8.99E-07	2.04E-10	2.96E-09	5.36E-08	5.36E-08	2.95E-08	1.40E-07	1.11E-10	1.60E-09	2.39E-08	2.39E-08	1.18E-08	6.12E-08
2236	257841.3	4085394	1.34E-09	1.93E-08	3.41E-07	3.41E-07	1.90E-07	8.94E-07	2.03E-10	2.94E-09	5.33E-08	5.33E-08	2.93E-08	1.39E-07	1.10E-10	1.59E-09	2.37E-08	2.37E-08	1.17E-08	6.09E-08
2237	257865.6	4085392	1.32E-09	1.92E-08	3.38E-07	3.38E-07	1.89E-07	8.86E-07	2.01E-10	2.92E-09	5.28E-08	5.28E-08	2.90E-08	1.38E-07	1.09E-10	1.58E-09	2.35E-08	2.35E-08	1.16E-08	6.03E-08
2238	257889.9	4085391	1.31E-09	1.89E-08	3.34E-07	3.34E-07	1.86E-07	8.75E-07	1.99E-10	2.88E-09	5.22E-08	5.22E-08	2.87E-08	1.36E-07	1.08E-10	1.56E-09	2.32E-08	2.32E-08	1.15E-08	5.96E-08

2239	257914.2	4085390	1.29E-09	1.87E-08	3.30E-07	3.30E-07	1.84E-07	8.63E-07	1.96E-10	2.84E-09	5.15E-08	5.15E-08	2.83E-08	1.34E-07	1.06E-10	1.54E-09	2.29E-08	2.29E-08	1.13E-08	5.88E-08
2240	257938.5	4085389	1.27E-09	1.84E-08	3.24E-07	3.24E-07	1.81E-07	8.49E-07	1.93E-10	2.80E-09	5.07E-08	5.07E-08	2.78E-08	1.32E-07	1.05E-10	1.51E-09	2.25E-08	2.25E-08	1.12E-08	5.78E-08
2241	257962.7	4085388	1.25E-09	1.80E-08	3.18E-07	3.18E-07	1.77E-07	8.33E-07	1.89E-10	2.75E-09	4.97E-08	4.97E-08	2.73E-08	1.30E-07	1.03E-10	1.49E-09	2.21E-08	2.21E-08	1.09E-08	5.68E-08
2242	257987	4085387	1.22E-09	1.76E-08	3.12E-07	3.12E-07	1.74E-07	8.16E-07	1.85E-10	2.69E-09	4.86E-08	4.86E-08	2.67E-08	1.27E-07	1.01E-10	1.45E-09	2.16E-08	2.16E-08	1.07E-08	5.55E-08
2243	258011.3	4085386	1.19E-09	1.72E-08	3.04E-07	3.04E-07	1.69E-07	7.96E-07	1.81E-10	2.62E-09	4.75E-08	4.75E-08	2.61E-08	1.24E-07	9.81E-11	1.42E-09	2.11E-08	2.11E-08	1.05E-08	5.42E-08
2244	258035.6	4085385	1.16E-09	1.67E-08	2.96E-07	2.96E-07	1.65E-07	7.74E-07	1.76E-10	2.55E-09	4.62E-08	4.62E-08	2.54E-08	1.20E-07	9.54E-11	1.38E-09	2.05E-08	2.05E-08	1.02E-08	5.27E-08
2245	258059.9	4085384	1.12E-09	1.62E-08	2.87E-07	2.87E-07	1.60E-07	7.51E-07	1.70E-10	2.47E-09	4.48E-08	4.48E-08	2.46E-08	1.17E-07	9.25E-11	1.34E-09	1.99E-08	1.99E-08	9.86E-09	5.11E-08
2246	258084.1	4085383	1.08E-09	1.57E-08	2.77E-07	2.77E-07	1.54E-07	7.25E-07	1.65E-10	2.39E-09	4.32E-08	4.32E-08	2.38E-08	1.13E-07	8.94E-11	1.29E-09	1.92E-08	1.92E-08	9.52E-09	4.94E-08
2247	258108.4	4085382	1.04E-09	1.51E-08	2.66E-07	2.66E-07	1.48E-07	6.97E-07	1.58E-10	2.30E-09	4.15E-08	4.15E-08	2.28E-08	1.08E-07	8.59E-11	1.24E-09	1.85E-08	1.85E-08	9.15E-09	4.74E-08
2248	258132.7	4085381	9.96E-10	1.44E-08	2.54E-07	2.54E-07	1.42E-07	6.66E-07	1.51E-10	2.19E-09	3.97E-08	3.97E-08	2.18E-08	1.04E-07	8.21E-11	1.19E-09	1.77E-08	1.77E-08	8.75E-09	4.54E-08
2249	258157	4085380	9.47E-10	1.37E-08	2.42E-07	2.42E-07	1.35E-07	6.33E-07	1.44E-10	2.09E-09	3.78E-08	3.78E-08	2.08E-08	9.85E-08	7.80E-11	1.13E-09	1.68E-08	1.68E-08	8.32E-09	4.31E-08
2250	258181.3	4085378	8.95E-10	1.29E-08	2.29E-07	2.29E-07	1.27E-07	5.98E-07	1.36E-10	1.97E-09	3.57E-08	3.57E-08	1.96E-08	9.31E-08	7.38E-11	1.07E-09	1.59E-08	1.59E-08	7.86E-09	4.08E-08
2251	258205.6	4085377	8.42E-10	1.22E-08	2.15E-07	2.15E-07	1.20E-07	5.63E-07	1.28E-10	1.85E-09	3.36E-08	3.36E-08	1.85E-08	8.76E-08	6.94E-11	1.00E-09	1.49E-08	1.49E-08	7.39E-09	3.83E-08
2252	258229.8	4085376	7.88E-10	1.14E-08	2.01E-07	2.01E-07	1.12E-07	5.27E-07	1.20E-10	1.74E-09	3.14E-08	3.14E-08	1.73E-08	8.20E-08	6.50E-11	9.40E-10	1.40E-08	1.40E-08	6.92E-09	3.59E-08
2253	258254.1	4085375	7.36E-10	1.06E-08	1.88E-07	1.88E-07	1.05E-07	4.92E-07	1.12E-10	1.62E-09	2.93E-08	2.93E-08	1.61E-08	7.65E-08	6.06E-11	8.77E-10	1.31E-08	1.31E-08	6.46E-09	3.35E-08
2254	258278.4	4085374	6.84E-10	9.89E-09	1.75E-07	1.75E-07	9.73E-08	4.57E-07	1.04E-10	1.51E-09	2.73E-08	2.73E-08	1.50E-08	7.11E-08	5.64E-11	8.15E-10	1.21E-08	1.21E-08	6.00E-09	3.11E-08
2255	258302.7	4085373	6.32E-10	9.14E-09	1.61E-07	1.61E-07	9.00E-08	4.23E-07	9.59E-11	1.39E-09	2.52E-08	2.52E-08	1.39E-08	6.58E-08	5.21E-11	7.54E-10	1.12E-08	1.12E-08	5.55E-09	2.88E-08
2256	258327	4085372	5.82E-10	8.41E-09	1.49E-07	1.49E-07	8.28E-08	3.89E-07	8.83E-11	1.28E-09	2.32E-08	2.32E-08	1.28E-08	6.05E-08	4.80E-11	6.94E-10	1.03E-08	1.03E-08	5.11E-09	2.65E-08
2257	258351.2	4085371	5.34E-10	7.72E-09	1.36E-07	1.36E-07	7.60E-08	3.57E-07	8.10E-11	1.18E-09	2.13E-08	2.13E-08	1.17E-08	5.55E-08	4.40E-11	6.36E-10	9.47E-09	9.47E-09	4.69E-09	2.43E-08
2258	258375.5	4085370	4.89E-10	7.08E-09	1.25E-07	1.25E-07	6.97E-08	3.27E-07	7.43E-11	1.08E-09	1.95E-08	1.95E-08	1.07E-08	5.09E-08	4.03E-11	5.83E-10	8.68E-09	8.68E-09	4.30E-09	2.23E-08
2259	257554.8	4085447	1.00E-09	1.45E-08	2.56E-07	2.56E-07	1.43E-07	6.71E-07	1.52E-10	2.21E-09	4.00E-08	4.00E-08	2.20E-08	1.04E-07	8.27E-11	1.20E-09	1.78E-08	1.78E-08	8.82E-09	4.57E-08
2260	257533.1	4085439	1.01E-09	1.46E-08	2.58E-07	2.58E-07	1.44E-07	6.75E-07	1.53E-10	2.22E-09	4.03E-08	4.03E-08	2.21E-08	1.05E-07	8.32E-11	1.20E-09	1.79E-08	1.79E-08	8.87E-09	4.60E-08
2261	257511.5	4085432	1.01E-09	1.46E-08	2.58E-07	2.58E-07	1.44E-07	6.76E-07	1.53E-10	2.23E-09	4.03E-08	4.03E-08	2.22E-08	1.05E-07	8.33E-11	1.20E-09	1.79E-08	1.79E-08	8.87E-09	4.60E-08
2262	257489.8	4085424	1.01E-09	1.45E-08	2.57E-07	2.57E-07	1.43E-07	6.72E-07	1.53E-10	2.22E-09	4.01E-08	4.01E-08	2.20E-08	1.05E-07	8.29E-11	1.20E-09	1.78E-08	1.78E-08	8.83E-09	4.58E-08
2263	257468.1	4085416	9.95E-10	1.44E-08	2.54E-07	2.54E-07	1.42E-07	6.65E-07	1.51E-10	2.19E-09	3.97E-08	3.97E-08	2.18E-08	1.04E-07	8.20E-11	1.19E-09	1.77E-08	1.77E-08	8.74E-09	4.53E-08
2264	257446.5	4085408	9.78E-10	1.41E-08	2.50E-07	2.50E-07	1.39E-07	6.54E-07	1.48E-10	2.15E-09	3.90E-08	3.90E-08	2.14E-08	1.02E-07	8.06E-11	1.17E-09	1.73E-08	1.73E-08	8.59E-09	4.45E-08
2265	257424.8	4085400	9.53E-10	1.38E-08	2.43E-07	2.43E-07	1.36E-07	6.37E-07	1.45E-10	2.10E-09	3.80E-08	3.80E-08	2.09E-08	9.91E-08	7.85E-11	1.14E-09	1.69E-08	1.69E-08	8.37E-09	4.34E-08
2266	257403.2	4085392	9.20E-10	1.33E-08	2.35E-07	2.35E-07	1.31E-07	6.15E-07	1.40E-10	2.03E-09	3.67E-08	3.67E-08	2.02E-08	9.57E-08	7.58E-11	1.10E-09	1.63E-08	1.63E-08	8.08E-09	4.19E-08
2267	257381.5	4085384	8.81E-10	1.27E-08	2.25E-07	2.25E-07	1.26E-07	5.89E-07	1.34E-10	1.94E-09	3.52E-08	3.52E-08	1.93E-08	9.17E-08	7.27E-11	1.05E-09	1.56E-08	1.56E-08	7.74E-09	4.01E-08
2268	257350.2	4085355	8.42E-10	1.22E-08	2.15E-07	2.15E-07	1.20E-07	5.63E-07	1.28E-10	1.86E-09	3.36E-08	3.36E-08	1.85E-08	8.76E-08	6.94E-11	1.00E-09	1.49E-08	1.49E-08	7.40E-09	3.84E-08
2269	257340.5	4085334	8.37E-10	1.21E-08	2.14E-07	2.14E-07	1.19E-07	5.60E-07	1.27E-10	1.84E-09	3.34E-08	3.34E-08	1.83E-08	8.71E-08	6.90E-11	9.98E-10	1.48E-08	1.48E-08	7.35E-09	3.81E-08
2270	257330.9	4085313	8.20E-10	1.19E-08	2.09E-07	2.09E-07	1.17E-07	5.48E-07	1.24E-10	1.81E-09	3.27E-08	3.27E-08	1.80E-08	8.53E-08	6.76E-11	9.78E-10	1.46E-08	1.46E-08	7.20E-09	3.73E-08
2271	257321.2	4085292	7.90E-10	1.14E-08	2.02E-07	2.02E-07	1.12E-07	5.28E-07	1.20E-10	1.74E-09	3.15E-08	3.15E-08	1.73E-08	8.22E-08	6.51E-11	9.42E-10	1.40E-08	1.40E-08	6.94E-09	3.60E-08
2272	257311.6	4085271	7.46E-10	1.08E-08	1.91E-07	1.91E-07	1.06E-07	4.99E-07	1.13E-10	1.64E-09	2.98E-08	2.98E-08	1.64E-08	7.77E-08	6.15E-11	8.90E-10	1.32E-08	1.32E-08	6.56E-09	3.40E-08
2273	257302	4085251	6.92E-10	1.00E-08	1.77E-07	1.77E-07	9.86E-08	4.63E-07	1.05E-10	1.53E-09	2.76E-08	2.76E-08	1.52E-08	7.20E-08	5.71E-11	8.25E-10	1.23E-08	1.23E-08	6.08E-09	3.15E-08
2274	257292.3	4085230	6.31E-10	9.13E-09	1.61E-07	1.61E-07	8.99E-08	4.22E-07	9.58E-11	1.39E-09	2.52E-08	2.52E-08	1.38E-08	6.57E-08	5.20E-11	7.53E-10	1.12E-08	1.12E-08	5.54E-09	2.87E-08
2275	257282.7	4085209	5.68E-10	8.22E-09	1.45E-07	1.45E-07	8.09E-08	3.80E-07	8.63E-11	1.25E-09	2.27E-08	2.27E-08	1.25E-08	5.91E-08	4.69E-11	6.78E-10	1.01E-08	1.01E-08	4.99E-09	2.59E-08
2276	257273	4085188	5.08E-10	7.34E-09	1.30E-07	1.30E-07	7.23E-08	3.39E-07	7.70E-11	1.12E-09	2.02E-08	2.02E-08	1.11E-08	5.28E-08	4.18E-11	6.05E-10	9.00E-09	9.00E-09	4.46E-09	2.31E-08
2277	257576.4	4085455	9.93E-10	1.44E-08	2.54E-07	2.54E-07	1.41E-07	6.64E-07	1.51E-10	2.19E-09	3.96E-08	3.96E-08	2.18E-08	1.03E-07	8.18E-11	1.18E-09	1.76E-08	1.76E-08	8.72E-09	4.52E-08
2278	257600.7	4085454	1.01E-09	1.47E-08	2.59E-07	2.59E-07	1.44E-07	6.78E-07	1.54E-10	2.24E-09	4.04E-08	4.04E-08	2.22E-08	1.06E-07	8.36E-11	1.21E-09	1.80E-08	1.80E-08	8.91E-09	4.62E-08
2279	257625	4085453	1.03E-09	1.49E-08	2.64E-07	2.64E-07	1.47E-07	6.90E-07	1.57E-10	2.27E-09	4.11E-08	4.11E-08	2.26E-08	1.07E-07	8.51E-11	1.23E-09	1.83E-08	1.83E-08	9.06E-09	4.70E-08
2280	257649.3	4085452	1.05E-09	1.51E-08	2.67E-07	2.67E-07	1.49E-07	6.99E-07	1.59E-10	2.30E-09	4.17E-08	4.17E-08	2.29E-08	1.09E-07	8.62E-11	1.25E-09	1.85E-08	1.85E-08	9.18E-09	4.76E-08
2281	257673.6	4085451	1.05E-09	1.52E-08	2.68E-07	2.68E-07	1.50E-07	7.03E-07	1.59E-10	2.32E-09	4.19E-08	4.19E-08	2.30E-08	1.09E-07	8.66E-11	1.25E-09	1.86E-08	1.86E-08	9.23E-09	4.79E-08
2282	257697.8	4085450	1.06E-09	1.53E-08	2.70E-07	2.70E-07	1.50E-07	7.06E-07	1.60E-10	2.33E-09	4.21E-08	4.21E-08	2.31E-08	1.10E-07	8.70E-11	1.26E-09	1.87E-08	1.87E-08	9.27E-09	4.81E-08
2283	257722.1	4085449	1.06E-09	1.53E-08	2.71E-07	2.71E-07	1.51E-07	7.09E-07	1.61E-10	2.33E-09	4.23E-08	4.23E-08	2.32E-08	1.10E-07	8.74E-11	1.26E-09	1.88E-08	1.88E-08	9.31E-09	4.83E-08
2284	257746.4	4085448	1.06E-09	1.54E-08	2.71E-07	2.71E-07	1.51E-07	7.10E-07	1.61E-10	2.34E-09	4.23E-08	4.23E-08	2.33E-08	1.10E-07	8.75E-11	1.27E-09	1.88E-08	1.88E-08	9.32E-09	4.83E-08
2285	257770.7	4085447	1.06E-09	1.53E-08	2.71E-07	2.71E-07	1.51E-07	7.09E-07	1.61E-10	2.34E-09	4.23E-08	4.23E-08	2.33E-08	1.10E-07	8.74E-11	1.26E-09	1.88E-08	1.88E-08	9.32E-09	4.83E-08
2286	257795	4085446	1.06E-09	1.53E-08	2.70E-07	2.70E-07	1.51E-07	7.07E-07	1.60E-10	2.33E-09	4.22E-08	4.22E-08	2.32E-08	1.10E-07	8.72E-11	1.26E-09	1.88E-08	1.88E-08	9.29E-09	4.82E-08
2287	257819.3	4085445	1.05E-09	1.52E-08	2.68E-07	2.68E-07	1.50E-07	7.03E-07	1.60E-10	2.32E-09	4.19E-08	4.19E-08	2.30E-08	1.09E-07	8.66E-11	1.25E-09	1.86E-08	1.86E-08	9.23E-09	4.79E-08
2288	257843.5	4085443	1.04E-09	1.51E-08	2.66E-07	2.66E-07	1.48E-07	6.97E-07	1.58E-10	2.30E-09	4.15E-08	4.15E-08	2.28E-08	1.08E-07	8.59E-11	1.24E-09	1.85E-08	1.85E-08	9.15E-09	4.74E-08
2289	257867.8	4085442	1.03E-09	1.49E-08	2.63E-07	2.63E-07	1.47E-07	6.89E-07	1.56E-10	2.27E-09	4.11E-08	4.11E-08	2.26E-08	1.07E-07	8.49E-11	1.23E-09	1.83E-08	1.83E-08	9.05E-09	4.69E-08
2290	257892.1	4085441	1.02E-09	1.47E-08	2.60E-07	2.60E-07	1.45E-07	6.79E-07	1.54E-10	2.24E-09	4.05E-08	4.05E-08	2.23E-08	1.06E-07	8.37E-11	1.21E-09	1.80E-08	1.80E-08	8.92E-09	4.63E-08
2291	257916.4	4085440	1.00E-09	1.45E-08	2.55E-07	2.55E-07	1.42E-07	6.69E-07	1.52E-10	2.20E-09	3.99E-08	3.99E-08	2.19E-08	1.04E-07	8.24E-11	1.19E-09	1.77E-08	1.77E-08	8.78E-09	4.55E-08
2292	257940.7	4085439	9.82E-10	1.42E-08	2.51E-07	2.51E-07	1.40E-07	6.56E-07	1.49E-10	2.16E-09	3.91E-08	3.91E-08	2.15E-08	1.02E-07	8.09E-11	1.17E-09	1.74E-08	1.74E-08	8.62E-09	4.47E-08
2293	257964.9	4085438	9.61E-10	1.39E-08	2.46E-07	2.46E-07	1.37E-07	6.43E-07	1.46E-10	2.12E-09	3.83E-08	3.83E-08	2.11E-08	1.00E-07	7.92E-11	1.15E-09	1.71E-08	1.71E-08	8.44E-09	4.38E-08
2294	257989.2	4085437	9.39E-10	1.36E-08	2.40E-07	2.40E-07	1.34E-07	6.28E-07	1.43E-10	2.07E-09	3.75E-08	3.75E-08	2.06E-08	9.77E-08	7.74E-11	1.12E-09	1.67E-08	1.67E-08	8.25E-09	4.28E-08
2295	258013.5	4085436	9.15E-10	1.32E-08	2.34E-07	2.34E-07	1.30E-07	6.12E-07	1.39E-10	2.02E-09	3.65E-08	3.65E-08	2.01E-08	9.52E-08	7.54E-11	1.09E-09	1.62E-08	1.62E-08	8.03E-09	4.17E-08
2296	258037.8	4085435	8.88E-10	1.28E-08	2.27E-07	2.27E-07	1.26E-07	5.94E-07	1.35E-10	1.96E-09	3.54E-08	3.54E-08	1.95E-08	9.24E-08	7.32E-11	1.06E-09	1.58E-08	1.58E-08	7.80E-09	4.04E-08
2297	258062.1	4085434	8.59E-10	1.24E-08	2.19E-07	2.19E-07	1.22E-07	5.74E-07	1.30E-10	1.89E-09	3.43E-08	3.43E-08	1.88E-08	8.94E-08	7.08E-11	1.02E-09	1.52E-08	1.52E-08	7.54E-09	3.91E-08
2298	258086.4	4085433	8.28E-10	1.20E-08	2.11E-07	2.11E-07	1.18E-07	5.53E-07	1.26E-10	1.82E-09	3.30E-08	3.30E-08	1.81E-08	8.61E-08	6.82E-11	9.87E-10	1.47E-08	1.47E-08	7.27E-09	3.77E-08
2299	258110.6	4085432	7.93E-10	1.15E-08	2.03E-07	2.03E-07	1.13E-07	5.31E-07	1.20E-10	1.75E-09	3.16E-08	3.16E-08	1.74E-08	8.26E-08	6.54E-11	9.46E-10	1.41E-08	1.41E-08	6.97E-09	3.61E-08
2300	258134.9	4085431	7.57E-10	1.10E-08	1.93E-07	1.93E-07	1.08E-07	5.06E-07	1.15E-10	1.67E-09	3.02E-08	3.02E-08	1.66E-08	7.88E-08	6.24E-11	9.03E-10	1.34E-08	1.34E-08	6.65E-09	3.45E-08
2301	258159.2	4085430	7.19E-10	1.04E-08	1.84E-07	1.84E-07	1.02E-07	4.81E-07	1.09E-10	1.59E-09	2.87E-08	2.87E-08	1.58E-08	7.49E-08	5.93E-11	8.58E-10	1.28E-08	1.28E-08	6.32E-09	3.28E-08
2302	258183.5	4085428	6.81E-10	9.85E-09	1.74E-07	1.74E-07	9.70E-08	4.55E-07	1.03E-10	1.50E-09	2.72E-08	2.72E-08	1.49E-08	7.09E-08	5.61E-11	8.12E-10	1.21E-08	1.21E-08	5.98E-09	3.10E-08
2303	258207.8	4085427	6.43E-10	9.30E-09	1.64E-07	1.64E-07	9.16E-08	4.30E-07	9.76E-11	1.42E-09	2.57E-08	2.57E-08	1.41E-08	6.69E-08	5.30E-11	7.67E-10	1.14E-08	1.14E-08	5.65E-09	2.93E-08
2304	258232	4085426	6.06E-10	8.76E-09	1.55E-07	1.55E-07	8.63E-08	4.05E-07	9.20E-11	1.34E-09	2.42E-08	2.42E-08	1.33E-08	6.30E-08	4.99E-11	7.22E-10	1.08E-08	1.08E-08	5.32E-09	2.76E-08
2305	258256.3	4085425	5.69E-10	8.23E-09	1.45E-07	1.45E-07	8.11E-08	3.81E-07	8.64E-11	1.25E-09	2.27E-08	2.27E-08	1.25E-08	5.92E-08	4.69E-11	6.79E-10	1.01E-08	1.01E-08	5.00E-09	2.59E-08
2306	258280.6	4085424	5.33E-10	7.70E-09	1.36E-07	1.36E-07	7.58E-08	3.56E-07	8.08E-11	1.17E-09	2.12E-08	2.12E-08	1.17E-08	5.54E-08	4.39E-11	6.35E-10	9.45E-09	9.45E-09	4.68E-09	2.43E-08
2307	258304.9	4085423	4.96E-10	7.18E-09	1.27E-07	1.27E-07	7.07E-08	3.32E-07	7.53E-11	1.09E-09	1.98E-08	1.98E-08	1.09E-08	5.16E-08	4.09E-11	5.92E-10	8.81E-09	8.81E-09	4.36E-09	2.26E-08
2308	258329.2	4085422	4.61E-10	6.67E-09	1.18E-07	1.18E-07	6.56E-08	3.08E-07	7.00E-11	1.02E-09	1.84E-08	1.84E-08	1.01E-08	4.80E-08	3.80E-11	5.50E-10	8.18E-09	8.18E-09	4.05E-09	2.10E-08
2309	258353.5	4085421	4.27E-10	6.18E-09	1.09E-07	1.09E-07	6.09E-08	2.86E-07	6.49E-11	9.42E-10	1.70E-08	1.70E-08	9.37E-09	4.45E-08	3.52E-11	5.09E-10	7.58E-09	7.58E-09	3.75E-09	1.95E-08
2310	258377.7	4085420	3.96E-10	5.73E-09	1.01E-07	1.01E-07	5.64E-08	2.65E-07	6.01E-11	8.72E-10	1.58E-08	1.58E-08	8.68E-09	4.12E-08	3.26E-11	4.72E-10	7.02E-09	7.02E-09	3.48E-09	1.80E-08
2311	257558.6	4085547	7.01E-10	1.01E-08	1.79E-07	1.79E-07	9.99E-08	4.69E-07	1.06E-10	1.55E-09	2.80E-08	2.80E-08	1.54E-08	7.30E-08	5.78E-11	8.36E-10	1.24E-08	1.24E-08	6.16E-09	3.19E-08
2312	257536.4	4085539	7.14E-10	1.03E-08	1.82E-07	1.82E-07	1.02E-07	4.78E-07	1.08E-10	1.57E-09	2.85E-08	2.85E-08	1.57E-08	7.43E-08	5.89E-11	8.52E-10	1.27E-08	1.27E-08	6.27E-09	3.25E-08
2313	257514.2	4085531	7.22E-10	1.04E-08	1.84E-07	1.84E-07	1.03E-07	4.83E-07	1.10E-10	1.59E-09	2.88E-08	2.88E-08	1.58E-08	7.51E-08	5.95E-11	8.60E-10	1.28E-08	1.28E-08	6.34E-09	3.29E-08
2314	257492	4085523	7.27E-10	1.05E-08	1.86E-07	1.86E-07	1.03E-07	4.86E-07	1.10E-10	1.60E-09	2.90E-08	2.90E-08	1.59E-08	7.56E-08	5.99E-11	8.66E-10	1.29E-08	1.29E-08	6.38E-09	3.31E-08
2315	257469.8	4085515	7.29E-10	1.05E-08	1.86E-07	1.86E-07	1.04E-07	4.87E-07	1.11E-10	1.61E-09	2.91E-08	2.91E-08	1.60E-08	7.58E-08	6.01E-11	8.69E-10	1.29E-08	1.29E-08	6.40E-09	3.32E-08
2316	257447.6	4085507	7.28E-10	1.05E-08	1.86E-07	1.86E-07	1.04E-07	4.87E-07	1.10E-10	1.60E-09	2.90E-08	2.90E-08	1.60E-08	7.57E-08	6.00E-11	8.68E-10	1.29E-08	1.29E-08	6.39E-09	3.32E-08
2317	257425.3	4085498	7.24E-10	1.05E-08	1.85E-07	1.85E-07	1.03E-07	4.84E-07	1.10E-10	1.60E-09	2.89E-08	2.89E-08	1.59E-08	7.53E-08	5.97E-11	8.63E-10	1.28E-08	1.28E-08	6.36E-09	3.30E-08
2318	257403.1	4085490	7.16E-10	1.04E-08	1.83E-07	1.83E-07	1.02E-07	4.79E-07	1.09E-10	1.58E-09	2.86E-08	2.86E-08	1.57E-08	7.45E-08	5.90E-11	8.54E-10	1.27E-08	1.27E-08	6.29E-09	3.26E-08
2319	257380.9	4085482	7.04E-10	1.02E-08	1.80E-07	1.80E-07	1.00E-07	4.71E-07	1.07E-10	1.55E-09	2.81E-08	2.81E-08	1.54E-08	7.32E-08	5.80E-11	8.39E-10	1.25E-08	1.25E-08	6.18E-09	3.21E-08
2320	257358.7	4085474	6.87E-10	9.93E-09	1.75E-07	1.75E-07	9.78E-08	4.59E-07	1.04E-10	1.51E-09	2.74E-08	2.74E-08	1.51E-08	7.14E-08	5.66E-11	8.19E-10	1.22E-08	1.22E-08	6.03E-09	3.13E-08
2321	257336.5	4085466	6.66E-10	9.63E-09	1.70E-07	1.70E-07	9.48E-08	4.45E-07	1.01E-10	1.47E-09	2.66E-08	2.66E-08	1.46E-08	6.93E-08	5.49E-11	7.94E-10	1.18E-08	1.18E-08	5.85E-09	3.03E-08
2322	257314.3	4085458	6.43E-10	9.30E-09	1.64E-07	1.64E-07	9.15E-08	4.30E-07	9.75E-11	1.42E-09	2.56E-08	2.56E-08	1.41E-08	6.69E-08	5.30E-11	7.66E-10	1.14E-08	1.14E-08	5.64E-09	2.93E-08
2323	257282.2	4085428	6.21E-10	8.98E-09	1.59E-07	1.59E-07	8.84E-08	4.15E-07	9.42E-11	1.37E-09	2.48E-08	2.48E-08	1.36E-08	6.46E-08	5.12E-11	7.40E-10	1.10E-08	1.10E-08	5.45E-09	2.83E-08
2324	257272.3	4085407	6.19E-10	8.95E-09	1.58E-07	1.58E-07	8.81E-08	4.14E-07	9.39E-11	1.36E-09	2.47E-08	2.47E-08	1.36E-08	6.44E-08	5.10E-11	7.38E-10	1.10E-08	1.10E-08	5.44E-09	2.82E-08
2325	257262.4	4085385	6.11E-10	8.84E-09	1.56E-07	1.56E-07	8.70E-08	4.09E-07	9.28E-11	1.35E-09	2.44E-08	2.44E-08	1.34E-08	6.36E-08	5.04E-11	7.29E-10	1.08E-08	1.08E-08	5.37E-09	2.78E-08
2326	257252.5	4085364	5.96E-10	8.62E-09	1.52E-07	1.52E-07	8.49E-08	3.99E-07	9.05E-11	1.31E-09	2.38E-08	2.38E-08	1.31E-08	6.20E-08	4.92E-11	7.11E-10	1.06E-08	1.06E-08	5.24E-09	2.72E-08
2327	257242.6	4085342	5.74E-10	8.30E-09	1.47E-07	1.47E-07	8.17E-08	3.84E-07	8.71E-11	1.26E-09	2.29E-08	2.29E-08	1.26E-08	5.97E-08	4.73E-11	6.84E-10	1.02E-08	1.02E-08	5.04E-09	2.61E-08
2328	257232.7	4085321	5.43E-10	7.86E-09	1.39E-07	1.39E-07	7.74E-08	3.63E-07	8.25E-11	1.20E-09	2.17E-08	2.17E-08	1.19E-08	5.65E-08	4.48E-11	6.48E-10	9.64E-09	9.64E-09	4.77E-09	2.47E-08
2329	257222.8	4085299	5.07E-10	7.33E-09	1.29E-07	1.29E-07	7.21E-08	3.39E-07	7.69E-11	1.12E-09	2.02E-08	2.02E-08	1.11E-08	5.27E-08	4.18E-11	6.04E-10	8.99E-09	8.99E-09	4.45E-09	2.31E-08
2330	257212.9	4085278	4.66E-10	6.74E-09	1.19E-07	1.19E-07	6.63E-08	3.11E-07	7.07E-11	1.03E-09	1.86E-08	1.86E-08	1.02E-08	4.85E-08	3.84E-11	5.55E-10	8.26E-09	8.26E-09	4.09E-09	2.12E-08
2331	257203	4085256	4.24E-10	6.13E-09	1.08E-07	1.08E-07	6.03E-08	2.83E-07	6.43E-11	9.33E-10	1.69E-08	1.69E-08	9.29E-09	4.41E-08	3.49E-11	5.05E-10	7.51E-09	7.51E-09	3.72E-09	1.93E-08
2332	257193.1	4085235	3.82E-10	5.53E-09	9.77E-08	9.77E-08	5.45E-08	2.56E-07	5.80E-11	8.43E-10	1.53E-08	1.53E-08	8.39E-09	3.98E-08	3.15E-11	4.56E-10	6.79E-09	6.79E-09	3.36E-09	1.74E-08
2333	257183.2	4085213	3.45E-10	4.98E-09	8.80E-08	8.80E-08	4.91E-08	2.30E-07	5.23E-11	7.59E-10	1.37E-08	1.37E-08	7.56E-09	3.59E-08	2.84E-11	4.11E-10	6.11E-09	6.11E-09	3.03E-09	1.57E-08
2334	257173.3	4085192	3.11E-10	4.50E-09	7.95E-08	7.95E-08	4.43E-08	2.08E-07	4.72E-11	6.86E-10	1.24E-08	1.24E-08	6.82E-09	3.24E-08	2.57E-11	3.71E-10	5.52E-09	5.52E-09	2.73E-09	1.42E-08
2335	257580.9	4085555	6.89E-10	9.97E-09	1.76E-07	1.76E-07	9.81E-08	4.61E-07	1.05E-10	1.52E-09	2.75E-08	2.75E-08	1.51E-08	7.17E-08	5.68E-11	8.22E-10	1.22E-08	1.22E-08	6.05E-09	3.14E-08
2336	257605.1	4085554	6.97E-10	1.01E-08	1.78E-07	1.78E-07	9.92E-08	4.66E-07	1.06E-10	1.54E-09	2.78E-08	2.78E-08	1.53E-08	7.25E-08	5.74E-11	8.31E-10	1.24E-08	1.24E-08	6.12E-09	3.17E-08
2337	257629.4	4085553	7.02E-10	1.02E-08	1.79E-07	1.79E-07	1.00E-07	4.70E-07	1.07E-10	1.55E-09	2.80E-08	2.80E-08	1.54E-08	7.31E-08	5.79E-11	8.37E-10	1.25E-08	1.25E-08	6.17E-09	3.20E-08
2338	257653.7	4085552	7.06E-10	1.02E-08	1.80E-07	1.80E-07	1.00E-07	4.72E-07	1.07E-10	1.55E-09	2.81E-08	2.81E-08	1.55E-08	7.34E-08	5.82E-11	8.41E-10	1.25E-08	1.25E-08	6.20E-09	3.21E-08
2339	257678	4085551	7.07E-10	1.02E-08	1.81E-07	1.81E-07	1.01E-07	4.73E-07	1.07E-10	1.56E-09	2.82E-08	2.82E-08	1.55E-08	7.36E-08	5.83E-11	8.43E-10	1.25E-08	1.25E-08	6.21E-09	3.22E-08
2340	257702.3	4085550	7.06E-10	1.02E-08	1.80E-07	1.80E-07	1.01E-07	4.72E-07	1.07E-10	1.56E-09	2.82E-08	2.82E-08	1.55E-08	7.35E-08	5.82E-11	8.42E-10	1.25E-08	1.25E-08	6.20E-09	3.22E-08
2341	257726.6	4085549	7.04E-10	1.02E-08	1.80E-07	1.80E-07	1.00E-07	4.71E-07	1.07E-10	1.55E-09	2.81E-08	2.81E-08	1.54E-08	7.33E-08	5.81E-11	8.40E-10	1.25E-08	1.25E-08	6.19E-09	3.21E-08
2342	257750.8	4085548	7.01E-10	1.01E-08	1.79E-07	1.79E-07	9.99E-08	4.69E-07	1.06E-10	1.55E-09	2.80E-08	2.80E-08	1.54E-08	7.30E-08	5.78E-11	8.36E-10	1.24E-08	1.24E-08	6.16E-09	3.19E-08
2343	257775.1	4085547	6.98E-10	1.01E-08	1.78E-07	1.78E-07	9.93E-08	4.66E-07	1.06E-10	1.54E-09	2.78E-08	2.78E-08	1.53E-08	7.26E-08	5.75E-11	8.32E-10	1.24E-08	1.24E-08	6.13E-09	3.18E-08
2344	257799.4	4085546	6.93E-10	1.00E-08	1.77E-07	1.77E-07	9.86E-08	4.63E-07	1.05E-10	1.53E-09	2.76E-08	2.76E-08	1.52E-08	7.21E-08	5.71E-11	8.26E-10	1.23E-08	1.23E-08	6.08E-09	3.15E-08
2345	257823.7	4085544	6.87E-10	9.93E-09	1.75E-07	1.75E-07	9.78E-08	4.59E-07	1.04E-10	1.51E-09	2.74E-08	2.74E-08	1.51E-08	7.14E-08	5.66E-11	8.19E-10	1.22E-08	1.22E-08	6.03E-09	3.13E-08
2346	257848	4085543	6.79E-10	9.82E-09	1.73E-07	1.73E-07	9.67E-08	4.54E-07	1.03E-10	1.50E-09	2.71E-08	2.71E-08	1.49E-08	7.07E-08	5.60E-11	8.10E-10	1.21E-08	1.21E-08	5.97E-09	3.09E-08
2347	257872.2	4085542	6.70E-10	9.70E-09	1.71E-07	1.71E-07	9.55E-08	4.48E-07	1.02E-10	1.48E-09	2.67E-08	2.67E-08	1.47E-08	6.97E-08	5.53E-11	7.99E-10	1.19E-08	1.19E-08	5.89E-09	3.05E-08
2348	257896.5	4085541	6.60E-10	9.55E-09	1.69E-07	1.69E-07	9.40E-08	4.41E-07	1.00E-10	1.45E-09	2.63E-08	2.63E-08	1.45E-08	6.87E-08	5.44E-11	7.87E-10	1.17E-08	1.17E-08	5.80E-09	3.01E-08
2349	257920.8	4085540	6.48E-10	9.38E-09	1.66E-07	1.66E-07	9.23E-08	4.34E-07	9.84E-11	1.43E-09	2.59E-08	2.59E-08	1.42E-08	6.75E-08	5.34E-11	7.73E-10	1.15E-08	1.15E-08	5.69E-09	2.95E-08
2350	257945.1	4085539	6.35E-10	9.19E-09	1.62E-07	1.62E-07	9.04E-08	4.25E-07	9.64E-11	1.40E-09	2.53E-08	2.53E-08	1.39E-08	6.61E-08	5.24E-11	7.57E-10	1.13E-08	1.13E-08	5.58E-09	2.89E-08
2351	257969.4	4085538	6.21E-10	8.98E-09	1.59E-07	1.59E-07	8.84E-08	4.15E-07	9.42E-11	1.37E-09	2.48E-08	2.48E-08	1.36E-08	6.46E-08	5.12E-11	7.40E-10	1.10E-08	1.10E-08	5.45E-09	2.83E-08
2352	257993.7	4085537	6.05E-10	8.74E-09	1.54E-07	1.54E-07	8.61E-08	4.04E-07	9.18E-11	1.33E-09	2.41E-08	2.41E-08	1.33E-08	6.29E-08	4.98E-11	7.21E-10	1.07E-08	1.07E-08	5.31E-09	2.75E-08
2353	258017.9	4085536	5.87E-10	8.49E-09	1.50E-07	1.50E-07	8.36E-08	3.93E-07	8.91E-11	1.29E-09	2.34E-08	2.34E-08	1.29E-08	6.11E-08	4.84E-11	7.00E-10	1.04E-08	1.04E-08	5.16E-09	2.67E-08
2354	258042.2	4085535	5.68E-10	8.21E-09	1.45E-07	1.45E-07	8.09E-08	3.80E-07	8.62E-11	1.25E-09	2.26E-08	2.26E-08	1.25E-08	5.91E-08	4.68E-11	6.77E-10	1.01E-08	1.01E-08	4.99E-09	2.59E-08
2355	258066.5	4085534	5.47E-10	7.92E-09	1.40E-07	1.40E-07	7.79E-08	3.66E-07	8.31E-11	1.21E-09	2.18E-08	2.18E-08	1.20E-08	5.70E-08	4.51E-11	6.53E-10	9.71E-09	9.71E-09	4.81E-09	2.49E-08
2356	258090.8	4085533	5.26E-10	7.61E-09	1.34E-07	1.34E-07	7.49E-08	3.52E-07	7.98E-11	1.16E-09	2.10E-08	2.10E-08	1.15E-08	5.47E-08	4.33E-11	6.27E-10	9.33E-09	9.33E-09	4.62E-09	2.39E-08

2357	258115.1	4085532	5.04E-10	7.29E-09	1.29E-07	1.29E-07	7.17E-08	3.37E-07	7.64E-11	1.11E-09	2.01E-08	2.01E-08	1.10E-08	5.24E-08	4.15E-11	6.01E-10	8.94E-09	8.94E-09	4.42E-09	2.29E-08
2358	258139.3	4085530	4.82E-10	6.96E-09	1.23E-07	1.23E-07	6.86E-08	3.22E-07	7.31E-11	1.06E-09	1.92E-08	1.92E-08	1.06E-08	5.01E-08	3.97E-11	5.74E-10	8.54E-09	8.54E-09	4.23E-09	2.19E-08
2359	258163.6	4085529	4.60E-10	6.65E-09	1.17E-07	1.17E-07	6.55E-08	3.07E-07	6.98E-11	1.01E-09	1.83E-08	1.83E-08	1.01E-08	4.78E-08	3.79E-11	5.48E-10	8.16E-09	8.16E-09	4.04E-09	2.09E-08
2360	258187.9	4085528	4.39E-10	6.34E-09	1.12E-07	1.12E-07	6.25E-08	2.93E-07	6.66E-11	9.66E-10	1.75E-08	1.75E-08	9.62E-09	4.56E-08	3.62E-11	5.23E-10	7.78E-09	7.78E-09	3.85E-09	2.00E-08
2361	258212.2	4085527	4.18E-10	6.04E-09	1.07E-07	1.07E-07	5.95E-08	2.79E-07	6.34E-11	9.21E-10	1.67E-08	1.67E-08	9.16E-09	4.35E-08	3.44E-11	4.98E-10	7.41E-09	7.41E-09	3.67E-09	1.90E-08
2362	258236.5	4085526	3.97E-10	5.74E-09	1.01E-07	1.01E-07	5.65E-08	2.65E-07	6.03E-11	8.75E-10	1.58E-08	1.58E-08	8.70E-09	4.13E-08	3.27E-11	4.73E-10	7.04E-09	7.04E-09	3.49E-09	1.81E-08
2363	258260.8	4085525	3.76E-10	5.44E-09	9.61E-08	9.61E-08	5.36E-08	2.52E-07	5.71E-11	8.29E-10	1.50E-08	1.50E-08	8.25E-09	3.91E-08	3.10E-11	4.48E-10	6.67E-09	6.67E-09	3.30E-09	1.71E-08
2364	258285	4085524	3.55E-10	5.14E-09	9.08E-08	9.08E-08	5.06E-08	2.38E-07	5.39E-11	7.83E-10	1.42E-08	1.42E-08	7.79E-09	3.70E-08	2.93E-11	4.24E-10	6.31E-09	6.31E-09	3.12E-09	1.62E-08
2365	258309.3	4085523	3.35E-10	4.84E-09	8.56E-08	8.56E-08	4.77E-08	2.24E-07	5.08E-11	7.38E-10	1.34E-08	1.34E-08	7.34E-09	3.49E-08	2.76E-11	3.99E-10	5.94E-09	5.94E-09	2.94E-09	1.53E-08
2366	258333.6	4085522	3.15E-10	4.56E-09	8.05E-08	8.05E-08	4.49E-08	2.11E-07	4.78E-11	6.95E-10	1.26E-08	1.26E-08	6.91E-09	3.28E-08	2.60E-11	3.76E-10	5.59E-09	5.59E-09	2.77E-09	1.44E-08
2367	258357.9	4085521	2.96E-10	4.29E-09	7.57E-08	7.57E-08	4.22E-08	1.98E-07	4.50E-11	6.53E-10	1.18E-08	1.18E-08	6.50E-09	3.08E-08	2.44E-11	3.53E-10	5.26E-09	5.26E-09	2.60E-09	1.35E-08
2368	258382.2	4085520	2.79E-10	4.03E-09	7.12E-08	7.12E-08	3.97E-08	1.86E-07	4.23E-11	6.14E-10	1.11E-08	1.11E-08	6.11E-09	2.90E-08	2.30E-11	3.32E-10	4.94E-09	4.94E-09	2.45E-09	1.27E-08
2369	257562.7	4085647	5.15E-10	7.44E-09	1.31E-07	1.31E-07	7.33E-08	3.44E-07	7.81E-11	1.13E-09	2.05E-08	2.05E-08	1.13E-08	5.35E-08	4.24E-11	6.13E-10	9.13E-09	9.13E-09	4.52E-09	2.34E-08
2370	257540.2	4085639	5.24E-10	7.58E-09	1.34E-07	1.34E-07	7.46E-08	3.50E-07	7.95E-11	1.15E-09	2.09E-08	2.09E-08	1.15E-08	5.45E-08	4.32E-11	6.25E-10	9.30E-09	9.30E-09	4.60E-09	2.39E-08
2371	257517.6	4085630	5.32E-10	7.70E-09	1.36E-07	1.36E-07	7.58E-08	3.56E-07	8.08E-11	1.17E-09	2.12E-08	2.12E-08	1.17E-08	5.54E-08	4.39E-11	6.35E-10	9.44E-09	9.44E-09	4.67E-09	2.42E-08
2372	257495	4085622	5.39E-10	7.80E-09	1.38E-07	1.38E-07	7.68E-08	3.61E-07	8.19E-11	1.19E-09	2.15E-08	2.15E-08	1.18E-08	5.61E-08	4.45E-11	6.43E-10	9.57E-09	9.57E-09	4.74E-09	2.46E-08
2373	257472.5	4085614	5.45E-10	7.88E-09	1.39E-07	1.39E-07	7.76E-08	3.64E-07	8.27E-11	1.20E-09	2.17E-08	2.17E-08	1.19E-08	5.67E-08	4.49E-11	6.50E-10	9.67E-09	9.67E-09	4.79E-09	2.48E-08
2374	257449.9	4085606	5.49E-10	7.95E-09	1.40E-07	1.40E-07	7.82E-08	3.67E-07	8.34E-11	1.21E-09	2.19E-08	2.19E-08	1.20E-08	5.72E-08	4.53E-11	6.55E-10	9.75E-09	9.75E-09	4.83E-09	2.50E-08
2375	257427.3	4085597	5.54E-10	8.02E-09	1.42E-07	1.42E-07	7.89E-08	3.71E-07	8.41E-11	1.22E-09	2.21E-08	2.21E-08	1.22E-08	5.77E-08	4.57E-11	6.61E-10	9.83E-09	9.83E-09	4.87E-09	2.52E-08
2376	257404.8	4085589	5.56E-10	8.04E-09	1.42E-07	1.42E-07	7.92E-08	3.72E-07	8.44E-11	1.23E-09	2.22E-08	2.22E-08	1.22E-08	5.79E-08	4.58E-11	6.63E-10	9.87E-09	9.87E-09	4.88E-09	2.53E-08
2377	257382.2	4085581	5.56E-10	8.04E-09	1.42E-07	1.42E-07	7.91E-08	3.72E-07	8.43E-11	1.22E-09	2.22E-08	2.22E-08	1.22E-08	5.78E-08	4.58E-11	6.62E-10	9.86E-09	9.86E-09	4.88E-09	2.53E-08
2378	257359.7	4085573	5.53E-10	7.99E-09	1.41E-07	1.41E-07	7.87E-08	3.70E-07	8.39E-11	1.22E-09	2.20E-08	2.20E-08	1.21E-08	5.75E-08	4.56E-11	6.59E-10	9.80E-09	9.80E-09	4.85E-09	2.52E-08
2379	257337.1	4085564	5.46E-10	7.90E-09	1.40E-07	1.40E-07	7.78E-08	3.65E-07	8.29E-11	1.20E-09	2.18E-08	2.18E-08	1.20E-08	5.68E-08	4.50E-11	6.51E-10	9.70E-09	9.70E-09	4.80E-09	2.49E-08
2380	257314.5	4085556	5.37E-10	7.77E-09	1.37E-07	1.37E-07	7.65E-08	3.59E-07	8.16E-11	1.18E-09	2.14E-08	2.14E-08	1.18E-08	5.59E-08	4.43E-11	6.41E-10	9.53E-09	9.53E-09	4.72E-09	2.45E-08
2381	257292	4085548	5.26E-10	7.61E-09	1.34E-07	1.34E-07	7.49E-08	3.52E-07	7.98E-11	1.16E-09	2.10E-08	2.10E-08	1.15E-08	5.47E-08	4.34E-11	6.27E-10	9.33E-09	9.33E-09	4.62E-09	2.40E-08
2382	257269.4	4085540	5.13E-10	7.42E-09	1.31E-07	1.31E-07	7.30E-08	3.43E-07	7.79E-11	1.13E-09	2.05E-08	2.05E-08	1.12E-08	5.34E-08	4.23E-11	6.12E-10	9.10E-09	9.10E-09	4.50E-09	2.34E-08
2383	257246.8	4085531	4.99E-10	7.22E-09	1.27E-07	1.27E-07	7.10E-08	3.34E-07	7.57E-11	1.10E-09	1.99E-08	1.99E-08	1.09E-08	5.19E-08	4.11E-11	5.95E-10	8.85E-09	8.85E-09	4.38E-09	2.27E-08
2384	257214.2	4085501	4.87E-10	7.05E-09	1.24E-07	1.24E-07	6.94E-08	3.26E-07	7.39E-11	1.07E-09	1.94E-08	1.94E-08	1.07E-08	5.07E-08	4.02E-11	5.81E-10	8.64E-09	8.64E-09	4.28E-09	2.22E-08
2385	257204.2	4085480	4.88E-10	7.05E-09	1.25E-07	1.25E-07	6.94E-08	3.26E-07	7.40E-11	1.07E-09	1.94E-08	1.94E-08	1.07E-08	5.07E-08	4.02E-11	5.81E-10	8.65E-09	8.65E-09	4.28E-09	2.22E-08
2386	257194.1	4085458	4.84E-10	7.00E-09	1.24E-07	1.24E-07	6.89E-08	3.24E-07	7.35E-11	1.07E-09	1.93E-08	1.93E-08	1.06E-08	5.04E-08	3.99E-11	5.77E-10	8.59E-09	8.59E-09	4.25E-09	2.21E-08
2387	257184.1	4085436	4.77E-10	6.89E-09	1.22E-07	1.22E-07	6.79E-08	3.19E-07	7.23E-11	1.05E-09	1.90E-08	1.90E-08	1.04E-08	4.96E-08	3.93E-11	5.68E-10	8.46E-09	8.46E-09	4.19E-09	2.17E-08
2388	257174	4085414	4.64E-10	6.71E-09	1.19E-07	1.19E-07	6.61E-08	3.10E-07	7.04E-11	1.02E-09	1.85E-08	1.85E-08	1.02E-08	4.83E-08	3.83E-11	5.53E-10	8.23E-09	8.23E-09	4.08E-09	2.11E-08
2389	257164	4085392	4.46E-10	6.46E-09	1.14E-07	1.14E-07	6.36E-08	2.98E-07	6.77E-11	9.84E-10	1.78E-08	1.78E-08	9.79E-09	4.64E-08	3.68E-11	5.32E-10	7.92E-09	7.92E-09	3.92E-09	2.03E-08
2390	257153.9	4085370	4.24E-10	6.13E-09	1.08E-07	1.08E-07	6.04E-08	2.83E-07	6.43E-11	9.34E-10	1.69E-08	1.69E-08	9.29E-09	4.41E-08	3.49E-11	5.05E-10	7.52E-09	7.52E-09	3.72E-09	1.93E-08
2391	257143.9	4085349	3.97E-10	5.74E-09	1.01E-07	1.01E-07	5.65E-08	2.66E-07	6.03E-11	8.75E-10	1.58E-08	1.58E-08	8.71E-09	4.13E-08	3.27E-11	4.73E-10	7.05E-09	7.05E-09	3.49E-09	1.81E-08
2392	257133.8	4085327	3.68E-10	5.32E-09	9.39E-08	9.39E-08	5.23E-08	2.46E-07	5.58E-11	8.10E-10	1.47E-08	1.47E-08	8.06E-09	3.82E-08	3.03E-11	4.38E-10	6.52E-09	6.52E-09	3.23E-09	1.67E-08
2393	257123.8	4085305	3.37E-10	4.88E-09	8.61E-08	8.61E-08	4.80E-08	2.25E-07	5.12E-11	7.43E-10	1.34E-08	1.34E-08	7.39E-09	3.51E-08	2.78E-11	4.02E-10	5.98E-09	5.98E-09	2.96E-09	1.54E-08
2394	257113.7	4085283	3.07E-10	4.44E-09	7.85E-08	7.85E-08	4.37E-08	2.05E-07	4.66E-11	6.77E-10	1.23E-08	1.23E-08	6.74E-09	3.20E-08	2.53E-11	3.66E-10	5.45E-09	5.45E-09	2.70E-09	1.40E-08
2395	257103.7	4085261	2.79E-10	4.04E-09	7.13E-08	7.13E-08	3.98E-08	1.87E-07	4.24E-11	6.15E-10	1.11E-08	1.11E-08	6.12E-09	2.91E-08	2.30E-11	3.33E-10	4.96E-09	4.96E-09	2.45E-09	1.27E-08
2396	257093.7	4085240	2.54E-10	3.68E-09	6.49E-08	6.49E-08	3.62E-08	1.70E-07	3.86E-11	5.60E-10	1.01E-08	1.01E-08	5.57E-09	2.64E-08	2.10E-11	3.03E-10	4.51E-09	4.51E-09	2.23E-09	1.16E-08
2397	257083.6	4085218	2.33E-10	3.37E-09	5.95E-08	5.95E-08	3.31E-08	1.56E-07	3.53E-11	5.13E-10	9.28E-09	9.28E-09	5.10E-09	2.42E-08	1.92E-11	2.78E-10	4.13E-09	4.13E-09	2.04E-09	1.06E-08
2398	257073.6	4085196	2.15E-10	3.11E-09	5.49E-08	5.49E-08	3.06E-08	1.44E-07	3.26E-11	4.73E-10	8.57E-09	8.57E-09	4.71E-09	2.24E-08	1.77E-11	2.56E-10	3.81E-09	3.81E-09	1.89E-09	9.78E-09
2399	257585.3	4085655	5.04E-10	7.29E-09	1.29E-07	1.29E-07	7.18E-08	3.37E-07	7.65E-11	1.11E-09	2.01E-08	2.01E-08	1.11E-08	5.24E-08	4.15E-11	6.01E-10	8.94E-09	8.94E-09	4.43E-09	2.30E-08
2400	257609.6	4085654	5.06E-10	7.32E-09	1.29E-07	1.29E-07	7.21E-08	3.39E-07	7.69E-11	1.12E-09	2.02E-08	2.02E-08	1.11E-08	5.27E-08	4.17E-11	6.04E-10	8.99E-09	8.99E-09	4.45E-09	2.31E-08
2401	257633.9	4085653	5.08E-10	7.34E-09	1.30E-07	1.30E-07	7.23E-08	3.39E-07	7.70E-11	1.12E-09	2.02E-08	2.02E-08	1.11E-08	5.28E-08	4.18E-11	6.05E-10	9.01E-09	9.01E-09	4.46E-09	2.31E-08
2402	257658.1	4085652	5.08E-10	7.34E-09	1.30E-07	1.30E-07	7.23E-08	3.40E-07	7.71E-11	1.12E-09	2.02E-08	2.02E-08	1.11E-08	5.28E-08	4.19E-11	6.05E-10	9.01E-09	9.01E-09	4.46E-09	2.31E-08
2403	257682.4	4085651	5.07E-10	7.33E-09	1.29E-07	1.29E-07	7.21E-08	3.39E-07	7.69E-11	1.12E-09	2.02E-08	2.02E-08	1.11E-08	5.27E-08	4.18E-11	6.04E-10	8.99E-09	8.99E-09	4.45E-09	2.31E-08
2404	257706.7	4085650	5.05E-10	7.30E-09	1.29E-07	1.29E-07	7.18E-08	3.37E-07	7.66E-11	1.11E-09	2.01E-08	2.01E-08	1.11E-08	5.25E-08	4.16E-11	6.01E-10	8.95E-09	8.95E-09	4.43E-09	2.30E-08
2405	257731	4085649	5.01E-10	7.25E-09	1.28E-07	1.28E-07	7.14E-08	3.35E-07	7.61E-11	1.10E-09	2.00E-08	2.00E-08	1.10E-08	5.22E-08	4.13E-11	5.98E-10	8.90E-09	8.90E-09	4.40E-09	2.28E-08
2406	257755.3	4085648	4.98E-10	7.20E-09	1.27E-07	1.27E-07	7.08E-08	3.33E-07	7.55E-11	1.10E-09	1.98E-08	1.98E-08	1.09E-08	5.18E-08	4.10E-11	5.93E-10	8.83E-09	8.83E-09	4.37E-09	2.27E-08
2407	257779.5	4085647	4.93E-10	7.13E-09	1.26E-07	1.26E-07	7.02E-08	3.30E-07	7.48E-11	1.09E-09	1.97E-08	1.97E-08	1.08E-08	5.13E-08	4.06E-11	5.88E-10	8.75E-09	8.75E-09	4.33E-09	2.25E-08
2408	257803.8	4085645	4.88E-10	7.06E-09	1.25E-07	1.25E-07	6.95E-08	3.26E-07	7.41E-11	1.08E-09	1.95E-08	1.95E-08	1.07E-08	5.08E-08	4.02E-11	5.82E-10	8.66E-09	8.66E-09	4.29E-09	2.22E-08
2409	257828.1	4085644	4.83E-10	6.99E-09	1.23E-07	1.23E-07	6.88E-08	3.23E-07	7.33E-11	1.06E-09	1.93E-08	1.93E-08	1.06E-08	5.02E-08	3.98E-11	5.76E-10	8.57E-09	8.57E-09	4.24E-09	2.20E-08
2410	257852.4	4085643	4.77E-10	6.90E-09	1.22E-07	1.22E-07	6.79E-08	3.19E-07	7.24E-11	1.05E-09	1.90E-08	1.90E-08	1.05E-08	4.96E-08	3.93E-11	5.69E-10	8.46E-09	8.46E-09	4.19E-09	2.17E-08
2411	257876.7	4085642	4.69E-10	6.79E-09	1.20E-07	1.20E-07	6.68E-08	3.14E-07	7.12E-11	1.03E-09	1.87E-08	1.87E-08	1.03E-08	4.88E-08	3.87E-11	5.59E-10	8.33E-09	8.33E-09	4.12E-09	2.14E-08
2412	257901	4085641	4.61E-10	6.67E-09	1.18E-07	1.18E-07	6.56E-08	3.08E-07	7.00E-11	1.02E-09	1.84E-08	1.84E-08	1.01E-08	4.80E-08	3.80E-11	5.50E-10	8.18E-09	8.18E-09	4.05E-09	2.10E-08
2413	257925.2	4085640	4.52E-10	6.54E-09	1.15E-07	1.15E-07	6.44E-08	3.02E-07	6.86E-11	9.96E-10	1.80E-08	1.80E-08	9.91E-09	4.70E-08	3.73E-11	5.39E-10	8.02E-09	8.02E-09	3.97E-09	2.06E-08
2414	257949.5	4085639	4.42E-10	6.40E-09	1.13E-07	1.13E-07	6.30E-08	2.96E-07	6.71E-11	9.74E-10	1.76E-08	1.76E-08	9.69E-09	4.60E-08	3.64E-11	5.27E-10	7.85E-09	7.85E-09	3.88E-09	2.01E-08
2415	257973.8	4085638	4.31E-10	6.23E-09	1.10E-07	1.10E-07	6.14E-08	2.88E-07	6.54E-11	9.50E-10	1.72E-08	1.72E-08	9.45E-09	4.48E-08	3.55E-11	5.14E-10	7.65E-09	7.65E-09	3.79E-09	1.96E-08
2416	257998.1	4085637	4.19E-10	6.07E-09	1.07E-07	1.07E-07	5.97E-08	2.80E-07	6.37E-11	9.24E-10	1.67E-08	1.67E-08	9.20E-09	4.36E-08	3.46E-11	5.00E-10	7.44E-09	7.44E-09	3.68E-09	1.91E-08
2417	258022.4	4085636	4.06E-10	5.88E-09	1.04E-07	1.04E-07	5.79E-08	2.72E-07	6.17E-11	8.96E-10	1.62E-08	1.62E-08	8.91E-09	4.23E-08	3.35E-11	4.85E-10	7.21E-09	7.21E-09	3.57E-09	1.85E-08
2418	258046.6	4085635	3.93E-10	5.68E-09	1.00E-07	1.00E-07	5.59E-08	2.63E-07	5.96E-11	8.65E-10	1.57E-08	1.57E-08	8.61E-09	4.09E-08	3.24E-11	4.68E-10	6.97E-09	6.97E-09	3.45E-09	1.79E-08
2419	258070.9	4085634	3.79E-10	5.48E-09	9.67E-08	9.67E-08	5.39E-08	2.53E-07	5.75E-11	8.35E-10	1.51E-08	1.51E-08	8.30E-09	3.94E-08	3.12E-11	4.52E-10	6.72E-09	6.72E-09	3.33E-09	1.72E-08
2420	258095.2	4085633	3.65E-10	5.28E-09	9.32E-08	9.32E-08	5.20E-08	2.44E-07	5.54E-11	8.04E-10	1.46E-08	1.46E-08	8.00E-09	3.80E-08	3.01E-11	4.35E-10	6.47E-09	6.47E-09	3.20E-09	1.66E-08
2421	258119.5	4085631	3.51E-10	5.08E-09	8.97E-08	8.97E-08	5.00E-08	2.35E-07	5.33E-11	7.74E-10	1.40E-08	1.40E-08	7.70E-09	3.66E-08	2.90E-11	4.19E-10	6.23E-09	6.23E-09	3.09E-09	1.60E-08
2422	258143.8	4085630	3.38E-10	4.89E-09	8.64E-08	8.64E-08	4.82E-08	2.26E-07	5.13E-11	7.45E-10	1.35E-08	1.35E-08	7.41E-09	3.52E-08	2.79E-11	4.03E-10	6.00E-09	6.00E-09	2.97E-09	1.54E-08
2423	258168.1	4085629	3.25E-10	4.70E-09	8.31E-08	8.31E-08	4.63E-08	2.17E-07	4.94E-11	7.17E-10	1.30E-08	1.30E-08	7.13E-09	3.38E-08	2.68E-11	3.88E-10	5.77E-09	5.77E-09	2.86E-09	1.48E-08
2424	258192.3	4085628	3.12E-10	4.51E-09	7.97E-08	7.97E-08	4.44E-08	2.09E-07	4.73E-11	6.87E-10	1.24E-08	1.24E-08	6.84E-09	3.24E-08	2.57E-11	3.72E-10	5.53E-09	5.53E-09	2.74E-09	1.42E-08
2425	258216.6	4085627	2.97E-10	4.29E-09	7.58E-08	7.58E-08	4.23E-08	1.98E-07	4.51E-11	6.54E-10	1.18E-08	1.18E-08	6.51E-09	3.09E-08	2.45E-11	3.54E-10	5.27E-09	5.27E-09	2.61E-09	1.35E-08
2426	258240.9	4085626	2.84E-10	4.10E-09	7.24E-08	7.24E-08	4.04E-08	1.90E-07	4.30E-11	6.25E-10	1.13E-08	1.13E-08	6.22E-09	2.95E-08	2.34E-11	3.38E-10	5.03E-09	5.03E-09	2.49E-09	1.29E-08
2427	258265.2	4085625	2.70E-10	3.91E-09	6.90E-08	6.90E-08	3.85E-08	1.81E-07	4.10E-11	5.96E-10	1.08E-08	1.08E-08	5.93E-09	2.81E-08	2.23E-11	3.22E-10	4.80E-09	4.80E-09	2.37E-09	1.23E-08
2428	258289.5	4085624	2.57E-10	3.72E-09	6.57E-08	6.57E-08	3.66E-08	1.72E-07	3.91E-11	5.67E-10	1.03E-08	1.03E-08	5.64E-09	2.68E-08	2.12E-11	3.07E-10	4.57E-09	4.57E-09	2.26E-09	1.17E-08
2429	258313.7	4085623	2.45E-10	3.54E-09	6.25E-08	6.25E-08	3.48E-08	1.64E-07	3.71E-11	5.39E-10	9.75E-09	9.75E-09	5.36E-09	2.54E-08	2.02E-11	2.92E-10	4.34E-09	4.34E-09	2.15E-09	1.11E-08
2430	258338	4085622	2.32E-10	3.36E-09	5.93E-08	5.93E-08	3.31E-08	1.55E-07	3.53E-11	5.12E-10	9.26E-09	9.26E-09	5.09E-09	2.42E-08	1.91E-11	2.77E-10	4.12E-09	4.12E-09	2.04E-09	1.06E-08
2431	258362.3	4085621	2.20E-10	3.19E-09	5.63E-08	5.63E-08	3.14E-08	1.47E-07	3.35E-11	4.86E-10	8.79E-09	8.79E-09	4.83E-09	2.29E-08	1.82E-11	2.63E-10	3.91E-09	3.91E-09	1.94E-09	1.00E-08
2432	258386.6	4085620	2.10E-10	3.04E-09	5.36E-08	5.36E-08	2.99E-08	1.40E-07	3.19E-11	4.63E-10	8.37E-09	8.37E-09	4.60E-09	2.18E-08	1.73E-11	2.50E-10	3.72E-09	3.72E-09	1.84E-09	9.56E-09
2433	257566.9	4085747	3.93E-10	5.68E-09	1.00E-07	1.00E-07	5.59E-08	2.63E-07	5.96E-11	8.65E-10	1.57E-08	1.57E-08	8.61E-09	4.08E-08	3.24E-11	4.68E-10	6.97E-09	6.97E-09	3.45E-09	1.79E-08
2434	257544.1	4085738	4.00E-10	5.79E-09	1.02E-07	1.02E-07	5.70E-08	2.68E-07	6.08E-11	8.82E-10	1.60E-08	1.60E-08	8.78E-09	4.16E-08	3.30E-11	4.77E-10	7.10E-09	7.10E-09	3.52E-09	1.82E-08
2435	257521.3	4085730	4.08E-10	5.89E-09	1.04E-07	1.04E-07	5.80E-08	2.72E-07	6.18E-11	8.98E-10	1.63E-08	1.63E-08	8.93E-09	4.24E-08	3.36E-11	4.86E-10	7.23E-09	7.23E-09	3.58E-09	1.86E-08
2436	257498.5	4085722	4.14E-10	5.99E-09	1.06E-07	1.06E-07	5.90E-08	2.77E-07	6.29E-11	9.13E-10	1.65E-08	1.65E-08	9.08E-09	4.31E-08	3.41E-11	4.94E-10	7.35E-09	7.35E-09	3.64E-09	1.89E-08
2437	257475.7	4085713	4.20E-10	6.08E-09	1.07E-07	1.07E-07	5.98E-08	2.81E-07	6.38E-11	9.26E-10	1.68E-08	1.68E-08	9.21E-09	4.37E-08	3.46E-11	5.01E-10	7.46E-09	7.46E-09	3.69E-09	1.91E-08
2438	257452.9	4085705	4.26E-10	6.15E-09	1.09E-07	1.09E-07	6.06E-08	2.85E-07	6.46E-11	9.38E-10	1.70E-08	1.70E-08	9.33E-09	4.43E-08	3.51E-11	5.07E-10	7.55E-09	7.55E-09	3.74E-09	1.94E-08
2439	257430.1	4085697	4.30E-10	6.22E-09	1.10E-07	1.10E-07	6.13E-08	2.88E-07	6.53E-11	9.48E-10	1.72E-08	1.72E-08	9.43E-09	4.48E-08	3.55E-11	5.13E-10	7.63E-09	7.63E-09	3.78E-09	1.96E-08
2440	257407.3	4085688	4.34E-10	6.28E-09	1.11E-07	1.11E-07	6.18E-08	2.90E-07	6.59E-11	9.57E-10	1.73E-08	1.73E-08	9.52E-09	4.52E-08	3.58E-11	5.18E-10	7.70E-09	7.70E-09	3.81E-09	1.98E-08
2441	257384.5	4085680	4.38E-10	6.33E-09	1.12E-07	1.12E-07	6.23E-08	2.93E-07	6.64E-11	9.64E-10	1.74E-08	1.74E-08	9.59E-09	4.55E-08	3.61E-11	5.22E-10	7.76E-09	7.76E-09	3.84E-09	1.99E-08
2442	257361.7	4085672	4.40E-10	6.36E-09	1.12E-07	1.12E-07	6.26E-08	2.94E-07	6.68E-11	9.69E-10	1.75E-08	1.75E-08	9.65E-09	4.58E-08	3.63E-11	5.24E-10	7.81E-09	7.81E-09	3.86E-09	2.00E-08
2443	257338.9	4085663	4.41E-10	6.38E-09	1.13E-07	1.13E-07	6.28E-08	2.95E-07	6.69E-11	9.72E-10	1.76E-08	1.76E-08	9.67E-09	4.59E-08	3.63E-11	5.26E-10	7.82E-09	7.82E-09	3.87E-09	2.01E-08
2444	257316.1	4085655	4.41E-10	6.37E-09	1.13E-07	1.13E-07	6.28E-08	2.95E-07	6.69E-11	9.71E-10	1.76E-08	1.76E-08	9.66E-09	4.59E-08	3.63E-11	5.25E-10	7.82E-09	7.82E-09	3.87E-09	2.01E-08
2445	257293.3	4085647	4.39E-10	6.34E-09	1.12E-07	1.12E-07	6.25E-08	2.93E-07	6.66E-11	9.67E-10	1.75E-08	1.75E-08	9.62E-09	4.56E-08	3.62E-11	5.23E-10	7.78E-09	7.78E-09	3.85E-09	2.00E-08
2446	257270.5	4085638	4.34E-10	6.28E-09	1.11E-07	1.11E-07	6.18E-08	2.90E-07	6.58E-11	9.56E-10	1.73E-08	1.73E-08	9.51E-09	4.51E-08	3.58E-11	5.17E-10	7.70E-09	7.70E-09	3.81E-09	1.98E-08
2447	257247.7	4085630	4.28E-10	6.18E-09	1.09E-07	1.09E-07	6.09E-08	2.86E-07	6.49E-11	9.42E-10	1.71E-08	1.71E-08	9.37E-09	4.45E-08	3.52E-11	5.10E-10	7.59E-09	7.59E-09	3.76E-09	1.95E-08
2448	257224.9	4085622	4.20E-10	6.08E-09	1.07E-07	1.07E-07	5.99E-08	2.81E-07	6.38E-11	9.26E-10	1.68E-08	1.68E-08	9.22E-09	4.37E-08	3.46E-11	5.01E-10	7.46E-09	7.46E-09	3.69E-09	1.91E-08
2449	257202.1	4085613	4.12E-10	5.96E-09	1.05E-07	1.05E-07	5.87E-08	2.76E-07	6.26E-11	9.08E-10	1.64E-08	1.64E-08	9.04E-09	4.29E-08	3.40E-11	4.92E-10	7.32E-09	7.32E-09	3.62E-09	1.88E-08
2450	257179.3	4085605	4.04E-10	5.84E-09	1.03E-07	1.03E-07	5.75E-08	2.70E-07	6.13E-11	8.90E-10	1.61E-08	1.61E-08	8.85E-09	4.20E-08	3.33E-11	4.81E-10	7.16E-09	7.16E-09	3.55E-09	1.84E-08
2451	257146.3	4085575	3.98E-10	5.76E-09	1.02E-07	1.02E-07	5.67E-08	2.66E-07	6.04E-11	8.78E-10	1.59E-08	1.59E-08	8.73E-09	4.14E-08	3.28E-11	4.75E-10	7.07E-09	7.07E-09	3.50E-09	1.81E-08
2452	257136.2	4085553	4.00E-10	5.79E-09	1.02E-07	1.02E-07	5.70E-08	2.67E-07	6.07E-11	8.81E-10	1.60E-08	1.60E-08	8.77E-09	4.16E-08	3.30E-11	4.77E-10	7.10E-09	7.10E-09	3.51E-09	1.82E-08
2453	257126	4085531	3.99E-10	5.78E-09	1.02E-07	1.02E-07	5.69E-08	2.67E-07	6.06E-11	8.80E-10	1.59E-08	1.59E-08	8.75E-09	4.15E-08	3.29E-11	4.76E-10	7.08E-09	7.08E-09	3.51E-09	1.82E-08
2454	257115.9	4085509	3.96E-10	5.72E-09	1.01E-07	1.01E-07	5.63E-08	2.65E-07	6.00E-11	8.72E-10	1.58E-08	1.58E-08	8.67E-09	4.12E-08	3.26E-11	4.72E-10	7.02E-09	7.02E-09	3.47E-09	1.80E-08
2455	257105.7	4085487	3.89E-10	5.62E-09	9.93E-08	9.93E-08	5.53E-08	2.60E-07	5.90E-11	8.56E-10	1.55E-08	1.55E-08	8.52E-09	4.04E-08	3.20E-11	4.63E-10	6.90E-09	6.90E-09	3.41E-09	1.77E-08
2456	257095.6	4085464	3.78E-10	5.47E-09	9.66E-08	9.66E-08	5.38E-08	2.53E-07	5.74E-11	8.33E-10	1.51E-08	1.51E-08	8.29E-09	3.93E-08	3.12E-11	4.51E-10	6.71E-09	6.71E-09	3.32E-09	1.72E-08
2457	257085.4	4085442	3.64E-10	5.27E-09	9.30E-08	9.30E-08	5.18E-08	2.43E-07	5.52E-11	8.02E-10	1.45E-08	1.45E-08	7.98E-09	3.79E-08	3.00E-11	4.34E-10	6.46E-09	6.46E-09	3.20E-09	1.66E-08
2458	257075.3	4085420	3.47E-10	5.01E-09	8.85E-08	8.85E-08	4.93E-08	2.32E-07	5.26E-11	7.64E-10	1.38E-08	1.38E-08	7.60E-09	3.61E-08	2.86E-11	4.13E-10	6.15E-09	6.15E-09	3.04E-09	1.58E-08
2459	257065.1	4085398	3.26E-10	4.72E-09	8.33E-08	8.33E-08	4.64E-08	2.18E-07	4.95E-11	7.19E-10	1.30E-08	1.30E-08	7.15E-09	3.39E-08	2.69E-11	3.89E-10	5.79E-09	5.79E-09	2.86E-09	1.49E-08
2460	257055	4085376	3.04E-10	4.39E-09	7.76E-08	7.76E-08	4.33E-08	2.03E-07	4.61E-11	6.69E-10	1.21E-08	1.21E-08	6.66E-09	3.16E-08	2.50E-11	3.62E-10	5.39E-09	5.39E-09	2.67E-09	1.38E-08
2461	257044.8	4085354	2.81E-10	4.06E-09	7.16E-08	7.16E-08	3.99E-08	1.88E-07	4.26E-11	6.18E-10	1.12E-08	1.12E-08	6.15E-09	2.92E-08	2.31E-11	3.34E-10	4.98E-09	4.98E-09	2.46E-09	1.28E-08
2462	257034.7	4085332	2.58E-10	3.72E-09	6.58E-08	6.58E-08	3.67E-08	1.72E-07	3.91E-11	5.67E-10	1.03E-08	1.03E-08	5.65E-09	2.68E-08	2.12E-11	3.07E-10	4.57E-09	4.57E-09	2.26E-09	1.17E-08
2463	257024.5	4085310	2.36E-10	3.41E-09	6.02E-08	6.02E-08	3.36E-08	1.58E-07	3.58E-11	5.20E-10	9.40E-09	9.40E-09	5.17E-09	2.45E-08	1.94E-11	2.81E-10	4.18E-09	4.18E-09	2.07E-09	1.07E-08
2464	257014.3	4085288	2.16E-10	3.13E-09	5.52E-08	5.52E-08	3.08E-08	1.44E-07	3.28E-11	4.76E-10	8.62E-09	8.62E-09	4.74E-09	2.25E-08	1.78E-11	2.58E-10	3.83E-09	3.83E-09	1.90E-09	9.84E-09
2465	257004.2	4085266	1.99E-10	2.88E-09	5.08E-08	5.08E-08	2.83E-08	1.33E-07	3.02E-11	4.38E-10	7.93E-09	7.93E-09	4.36E-09	2.07E-08	1.64E-11	2.37E-10	3.53E-09	3.53E-09	1.75E-09	9.06E-09
2466	256994	4085244	1.84E-10	2.66E-09	4.70E-08	4.70E-08	2.62E-08	1.23E-07	2.79E-11	4.06E-10	7.34E-09	7.34E-09	4.04E-09	1.92E-08	1.52E-11	2.19E-10	3.27E-09	3.27E-09	1.62E-09	8.38E-09
2467	256983.9	4085222	1.72E-10	2.49E-09	4.39E-08	4.39E-08	2.45E-08	1.15E-07	2.61E-11	3.79E-10	6.86E-09	6.86E-09	3.77E-09	1.79E-08	1.42E-11	2.05E-10	3.05E-09	3.05E-09	1.51E-09	7.83E-09
2468	256973.7	4085200	1.62E-10	2.34E-09	4.14E-08	4.14E-08	2.31E-08	1.08E-07	2.46E-11	3.57E-10	6.46E-09	6.46E-09	3.55E-09	1.69E-08	1.34E-11	1.93E-10	2.88E-09	2.88E-09	1.42E-09	7.38E-09
2469	257589.7	4085755	3.85E-10	5.56E-09	9.82E-08	9.82E-08	5.48E-08	2.57E-07	5.84E-11	8.47E-10	1.53E-08	1.53E-08	8.43E-09	4.00E-08	3.17E-11	4.59E-10	6.82E-09	6.82E-09	3.38E-09	1.75E-08
2470	257614	4085754	3.85E-10	5.57E-09	9.84E-08	9.84E-08	5.48E-08	2.57E-07	5.84E-11	8.48E-10	1.54E-08	1.54E-08	8.44E-09	4.01E-08	3.17E-11	4.59E-10	6.83E-09	6.83E-09	3.38E-09	1.75E-08
2471	257638.3	4085753	3.85E-10	5.57E-09	9.83E-08	9.83E-08	5.48E-08	2.57E-07	5.84E-11	8.48E-10	1.54E-08	1.54E-08	8.44E-09	4.00E-08	3.17E-11	4.59E-10	6.83E-09	6.83E-09	3.38E-09	1.75E-08
2472	257662.6	4085752	3.84E-10	5.56E-09	9.81E-08	9.81E-08	5.47E-08	2.57E-07	5.83E-11	8.46E-10	1.53E-08	1.53E-08	8.42E-09	4.00E-08	3.17E-11	4.58E-10	6.81E-09	6.81E-09	3.37E-09	1.75E-08
2473	257686.8	4085751	3.83E-10	5.53E-09	9.77E-08	9.77E-08	5.45E-08	2.56E-07	5.81E-11	8.43E-10	1.53E-08	1.53E-08	8.39E-09	3.98E-08	3.15E-11	4.56E-10	6.79E-09	6.79E-09	3.36E-09	1.74E-08
2474	257711.1	4085750	3.80E-10	5.50E-09	9.71E-08	9.71E-08	5.41E-08	2.54E-07	5.77E-11	8.38E-10	1.52E-08	1.52E-08	8.34E-09	3.96E-08	3.13E-11	4.53E-10	6.75E-09	6.75E-09	3.34E-09	1.73E-08

2475	257735.4	4085749	3.77E-10	5.45E-09	9.63E-08	9.63E-08	5.37E-08	2.52E-07	5.72E-11	8.31E-10	1.50E-08	1.50E-08	8.27E-09	3.92E-08	3.11E-11	4.50E-10	6.69E-09	6.69E-09	3.31E-09	1.72E-08
2476	257759.7	4085747	3.73E-10	5.40E-09	9.53E-08	9.53E-08	5.32E-08	2.50E-07	5.67E-11	8.23E-10	1.49E-08	1.49E-08	8.18E-09	3.88E-08	3.08E-11	4.45E-10	6.62E-09	6.62E-09	3.28E-09	1.70E-08
2477	257784	4085746	3.69E-10	5.34E-09	9.42E-08	9.42E-08	5.25E-08	2.47E-07	5.60E-11	8.13E-10	1.47E-08	1.47E-08	8.09E-09	3.84E-08	3.04E-11	4.40E-10	6.55E-09	6.55E-09	3.24E-09	1.68E-08
2478	257808.2	4085745	3.63E-10	5.26E-09	9.28E-08	9.28E-08	5.17E-08	2.43E-07	5.52E-11	8.01E-10	1.45E-08	1.45E-08	7.97E-09	3.78E-08	3.00E-11	4.33E-10	6.45E-09	6.45E-09	3.19E-09	1.66E-08
2479	257832.5	4085744	3.57E-10	5.16E-09	9.11E-08	9.11E-08	5.08E-08	2.39E-07	5.41E-11	7.86E-10	1.42E-08	1.42E-08	7.82E-09	3.71E-08	2.94E-11	4.25E-10	6.33E-09	6.33E-09	3.13E-09	1.62E-08
2480	257856.8	4085743	3.51E-10	5.07E-09	8.96E-08	8.96E-08	4.99E-08	2.35E-07	5.32E-11	7.73E-10	1.40E-08	1.40E-08	7.69E-09	3.65E-08	2.89E-11	4.18E-10	6.22E-09	6.22E-09	3.08E-09	1.60E-08
2481	257881.1	4085742	3.45E-10	4.99E-09	8.80E-08	8.80E-08	4.91E-08	2.30E-07	5.23E-11	7.60E-10	1.37E-08	1.37E-08	7.56E-09	3.59E-08	2.84E-11	4.11E-10	6.12E-09	6.12E-09	3.03E-09	1.57E-08
2482	257905.4	4085741	3.38E-10	4.89E-09	8.64E-08	8.64E-08	4.81E-08	2.26E-07	5.13E-11	7.45E-10	1.35E-08	1.35E-08	7.41E-09	3.52E-08	2.79E-11	4.03E-10	6.00E-09	6.00E-09	2.97E-09	1.54E-08
2483	257929.7	4085740	3.31E-10	4.78E-09	8.45E-08	8.45E-08	4.71E-08	2.21E-07	5.02E-11	7.29E-10	1.32E-08	1.32E-08	7.25E-09	3.44E-08	2.73E-11	3.94E-10	5.87E-09	5.87E-09	2.91E-09	1.51E-08
2484	257953.9	4085739	3.23E-10	4.67E-09	8.25E-08	8.25E-08	4.60E-08	2.16E-07	4.90E-11	7.11E-10	1.29E-08	1.29E-08	7.08E-09	3.36E-08	2.66E-11	3.85E-10	5.73E-09	5.73E-09	2.84E-09	1.47E-08
2485	257978.2	4085738	3.14E-10	4.54E-09	8.03E-08	8.03E-08	4.47E-08	2.10E-07	4.77E-11	6.92E-10	1.25E-08	1.25E-08	6.89E-09	3.27E-08	2.59E-11	3.75E-10	5.58E-09	5.58E-09	2.76E-09	1.43E-08
2486	258002.5	4085737	3.05E-10	4.41E-09	7.80E-08	7.80E-08	4.35E-08	2.04E-07	4.63E-11	6.73E-10	1.22E-08	1.22E-08	6.69E-09	3.18E-08	2.52E-11	3.64E-10	5.42E-09	5.42E-09	2.68E-09	1.39E-08
2487	258026.8	4085736	2.96E-10	4.28E-09	7.56E-08	7.56E-08	4.22E-08	1.98E-07	4.49E-11	6.52E-10	1.18E-08	1.18E-08	6.49E-09	3.08E-08	2.44E-11	3.53E-10	5.25E-09	5.25E-09	2.60E-09	1.35E-08
2488	258051.1	4085735	2.87E-10	4.15E-09	7.33E-08	7.33E-08	4.09E-08	1.92E-07	4.35E-11	6.32E-10	1.14E-08	1.14E-08	6.29E-09	2.98E-08	2.37E-11	3.42E-10	5.09E-09	5.09E-09	2.52E-09	1.31E-08
2489	258075.3	4085734	2.78E-10	4.02E-09	7.10E-08	7.10E-08	3.96E-08	1.86E-07	4.22E-11	6.13E-10	1.11E-08	1.11E-08	6.10E-09	2.89E-08	2.29E-11	3.31E-10	4.93E-09	4.93E-09	2.44E-09	1.27E-08
2490	258099.6	4085732	2.69E-10	3.90E-09	6.88E-08	6.88E-08	3.84E-08	1.80E-07	4.09E-11	5.94E-10	1.07E-08	1.07E-08	5.91E-09	2.80E-08	2.22E-11	3.21E-10	4.78E-09	4.78E-09	2.37E-09	1.23E-08
2491	258123.9	4085731	2.61E-10	3.77E-09	6.66E-08	6.66E-08	3.72E-08	1.74E-07	3.96E-11	5.75E-10	1.04E-08	1.04E-08	5.72E-09	2.71E-08	2.15E-11	3.11E-10	4.63E-09	4.63E-09	2.29E-09	1.19E-08
2492	258148.2	4085730	2.53E-10	3.65E-09	6.45E-08	6.45E-08	3.60E-08	1.69E-07	3.83E-11	5.56E-10	1.01E-08	1.01E-08	5.54E-09	2.63E-08	2.08E-11	3.01E-10	4.48E-09	4.48E-09	2.22E-09	1.15E-08
2493	258172.5	4085729	2.44E-10	3.53E-09	6.23E-08	6.23E-08	3.47E-08	1.63E-07	3.70E-11	5.37E-10	9.73E-09	9.73E-09	5.35E-09	2.54E-08	2.01E-11	2.91E-10	4.33E-09	4.33E-09	2.14E-09	1.11E-08
2494	258196.8	4085728	2.35E-10	3.40E-09	6.01E-08	6.01E-08	3.35E-08	1.57E-07	3.57E-11	5.18E-10	9.38E-09	9.38E-09	5.16E-09	2.45E-08	1.94E-11	2.80E-10	4.17E-09	4.17E-09	2.07E-09	1.07E-08
2495	258221	4085727	2.26E-10	3.27E-09	5.78E-08	5.78E-08	3.22E-08	1.51E-07	3.43E-11	4.98E-10	9.02E-09	9.02E-09	4.96E-09	2.35E-08	1.86E-11	2.70E-10	4.01E-09	4.01E-09	1.99E-09	1.03E-08
2496	258245.3	4085726	2.17E-10	3.14E-09	5.55E-08	5.55E-08	3.09E-08	1.45E-07	3.30E-11	4.79E-10	8.66E-09	8.66E-09	4.76E-09	2.26E-08	1.79E-11	2.59E-10	3.85E-09	3.85E-09	1.91E-09	9.89E-09
2497	258269.6	4085725	2.08E-10	3.01E-09	5.32E-08	5.32E-08	2.96E-08	1.39E-07	3.16E-11	4.59E-10	8.30E-09	8.30E-09	4.56E-09	2.17E-08	1.72E-11	2.48E-10	3.69E-09	3.69E-09	1.83E-09	9.48E-09
2498	258293.9	4085724	1.99E-10	2.88E-09	5.09E-08	5.09E-08	2.84E-08	1.33E-07	3.03E-11	4.39E-10	7.95E-09	7.95E-09	4.37E-09	2.07E-08	1.64E-11	2.38E-10	3.54E-09	3.54E-09	1.75E-09	9.08E-09
2499	258318.2	4085723	1.91E-10	2.76E-09	4.87E-08	4.87E-08	2.72E-08	1.28E-07	2.90E-11	4.20E-10	7.61E-09	7.61E-09	4.18E-09	1.98E-08	1.57E-11	2.27E-10	3.38E-09	3.38E-09	1.68E-09	8.69E-09
2500	258342.4	4085722	1.82E-10	2.64E-09	4.66E-08	4.66E-08	2.60E-08	1.22E-07	2.77E-11	4.02E-10	7.27E-09	7.27E-09	4.00E-09	1.90E-08	1.50E-11	2.17E-10	3.23E-09	3.23E-09	1.60E-09	8.30E-09
2501	258366.7	4085721	1.74E-10	2.52E-09	4.45E-08	4.45E-08	2.48E-08	1.16E-07	2.64E-11	3.84E-10	6.95E-09	6.95E-09	3.82E-09	1.81E-08	1.44E-11	2.08E-10	3.09E-09	3.09E-09	1.53E-09	7.93E-09
2502	258391	4085720	1.66E-10	2.41E-09	4.25E-08	4.25E-08	2.37E-08	1.11E-07	2.53E-11	3.67E-10	6.64E-09	6.64E-09	3.65E-09	1.73E-08	1.37E-11	1.98E-10	2.95E-09	2.95E-09	1.46E-09	7.58E-09
2503	257572.2	4085847	3.11E-10	4.50E-09	7.94E-08	7.94E-08	4.43E-08	2.08E-07	4.72E-11	6.85E-10	1.24E-08	1.24E-08	6.81E-09	3.23E-08	2.56E-11	3.71E-10	5.51E-09	5.51E-09	2.73E-09	1.42E-08
2504	257550.2	4085839	3.16E-10	4.58E-09	8.08E-08	8.08E-08	4.51E-08	2.12E-07	4.80E-11	6.97E-10	1.26E-08	1.26E-08	6.94E-09	3.29E-08	2.61E-11	3.77E-10	5.61E-09	5.61E-09	2.78E-09	1.44E-08
2505	257528.2	4085831	3.22E-10	4.65E-09	8.22E-08	8.22E-08	4.58E-08	2.15E-07	4.88E-11	7.09E-10	1.28E-08	1.28E-08	7.06E-09	3.35E-08	2.65E-11	3.84E-10	5.71E-09	5.71E-09	2.83E-09	1.47E-08
2506	257506.2	4085823	3.27E-10	4.73E-09	8.35E-08	8.35E-08	4.66E-08	2.19E-07	4.96E-11	7.21E-10	1.30E-08	1.30E-08	7.17E-09	3.40E-08	2.70E-11	3.90E-10	5.80E-09	5.80E-09	2.87E-09	1.49E-08
2507	257484.3	4085815	3.32E-10	4.80E-09	8.48E-08	8.48E-08	4.73E-08	2.22E-07	5.04E-11	7.32E-10	1.32E-08	1.32E-08	7.28E-09	3.45E-08	2.74E-11	3.96E-10	5.89E-09	5.89E-09	2.92E-09	1.51E-08
2508	257462.3	4085807	3.37E-10	4.87E-09	8.60E-08	8.60E-08	4.79E-08	2.25E-07	5.11E-11	7.42E-10	1.34E-08	1.34E-08	7.38E-09	3.50E-08	2.78E-11	4.01E-10	5.97E-09	5.97E-09	2.96E-09	1.53E-08
2509	257440.3	4085799	3.41E-10	4.93E-09	8.71E-08	8.71E-08	4.86E-08	2.28E-07	5.18E-11	7.52E-10	1.36E-08	1.36E-08	7.48E-09	3.55E-08	2.81E-11	4.07E-10	6.05E-09	6.05E-09	3.00E-09	1.55E-08
2510	257418.3	4085791	3.45E-10	4.99E-09	8.82E-08	8.82E-08	4.91E-08	2.31E-07	5.24E-11	7.60E-10	1.38E-08	1.38E-08	7.57E-09	3.59E-08	2.84E-11	4.11E-10	6.12E-09	6.12E-09	3.03E-09	1.57E-08
2511	257396.4	4085783	3.49E-10	5.05E-09	8.91E-08	8.91E-08	4.97E-08	2.33E-07	5.30E-11	7.69E-10	1.39E-08	1.39E-08	7.65E-09	3.63E-08	2.88E-11	4.16E-10	6.19E-09	6.19E-09	3.06E-09	1.59E-08
2512	257374.4	4085775	3.53E-10	5.10E-09	9.00E-08	9.00E-08	5.02E-08	2.36E-07	5.35E-11	7.77E-10	1.41E-08	1.41E-08	7.73E-09	3.67E-08	2.91E-11	4.20E-10	6.25E-09	6.25E-09	3.10E-09	1.61E-08
2513	257352.4	4085767	3.56E-10	5.15E-09	9.09E-08	9.09E-08	5.07E-08	2.38E-07	5.40E-11	7.84E-10	1.42E-08	1.42E-08	7.80E-09	3.70E-08	2.93E-11	4.24E-10	6.31E-09	6.31E-09	3.12E-09	1.62E-08
2514	257330.4	4085759	3.59E-10	5.19E-09	9.16E-08	9.16E-08	5.11E-08	2.40E-07	5.44E-11	7.90E-10	1.43E-08	1.43E-08	7.86E-09	3.73E-08	2.96E-11	4.28E-10	6.36E-09	6.36E-09	3.15E-09	1.63E-08
2515	257308.5	4085751	3.61E-10	5.22E-09	9.21E-08	9.21E-08	5.13E-08	2.41E-07	5.47E-11	7.94E-10	1.44E-08	1.44E-08	7.91E-09	3.75E-08	2.97E-11	4.30E-10	6.40E-09	6.40E-09	3.17E-09	1.64E-08
2516	257286.5	4085743	3.62E-10	5.23E-09	9.23E-08	9.23E-08	5.15E-08	2.42E-07	5.49E-11	7.97E-10	1.44E-08	1.44E-08	7.93E-09	3.76E-08	2.98E-11	4.31E-10	6.41E-09	6.41E-09	3.18E-09	1.65E-08
2517	257264.5	4085735	3.61E-10	5.22E-09	9.23E-08	9.23E-08	5.14E-08	2.42E-07	5.48E-11	7.96E-10	1.44E-08	1.44E-08	7.92E-09	3.76E-08	2.98E-11	4.31E-10	6.41E-09	6.41E-09	3.17E-09	1.65E-08
2518	257242.5	4085726	3.60E-10	5.20E-09	9.19E-08	9.19E-08	5.12E-08	2.40E-07	5.46E-11	7.92E-10	1.43E-08	1.43E-08	7.88E-09	3.74E-08	2.96E-11	4.29E-10	6.38E-09	6.38E-09	3.16E-09	1.64E-08
2519	257220.6	4085718	3.58E-10	5.17E-09	9.13E-08	9.13E-08	5.09E-08	2.39E-07	5.43E-11	7.88E-10	1.43E-08	1.43E-08	7.84E-09	3.72E-08	2.95E-11	4.26E-10	6.34E-09	6.34E-09	3.14E-09	1.63E-08
2520	257198.6	4085710	3.54E-10	5.13E-09	9.05E-08	9.05E-08	5.05E-08	2.37E-07	5.38E-11	7.81E-10	1.41E-08	1.41E-08	7.77E-09	3.69E-08	2.92E-11	4.23E-10	6.29E-09	6.29E-09	3.11E-09	1.61E-08
2521	257176.6	4085702	3.50E-10	5.07E-09	8.95E-08	8.95E-08	4.99E-08	2.34E-07	5.32E-11	7.72E-10	1.40E-08	1.40E-08	7.68E-09	3.65E-08	2.89E-11	4.18E-10	6.22E-09	6.22E-09	3.08E-09	1.60E-08
2522	257154.6	4085694	3.46E-10	5.00E-09	8.84E-08	8.84E-08	4.93E-08	2.31E-07	5.25E-11	7.62E-10	1.38E-08	1.38E-08	7.59E-09	3.60E-08	2.85E-11	4.12E-10	6.14E-09	6.14E-09	3.04E-09	1.58E-08
2523	257132.7	4085686	3.41E-10	4.94E-09	8.72E-08	8.72E-08	4.86E-08	2.28E-07	5.18E-11	7.52E-10	1.36E-08	1.36E-08	7.48E-09	3.55E-08	2.81E-11	4.07E-10	6.06E-09	6.06E-09	3.00E-09	1.55E-08
2524	257110.7	4085678	3.36E-10	4.87E-09	8.59E-08	8.59E-08	4.79E-08	2.25E-07	5.11E-11	7.41E-10	1.34E-08	1.34E-08	7.37E-09	3.50E-08	2.77E-11	4.01E-10	5.97E-09	5.97E-09	2.95E-09	1.53E-08
2525	257078.9	4085649	3.35E-10	4.84E-09	8.55E-08	8.55E-08	4.77E-08	2.24E-07	5.08E-11	7.38E-10	1.34E-08	1.34E-08	7.34E-09	3.48E-08	2.76E-11	3.99E-10	5.94E-09	5.94E-09	2.94E-09	1.52E-08
2526	257069.1	4085628	3.37E-10	4.88E-09	8.62E-08	8.62E-08	4.80E-08	2.26E-07	5.12E-11	7.43E-10	1.35E-08	1.35E-08	7.40E-09	3.51E-08	2.78E-11	4.02E-10	5.99E-09	5.99E-09	2.96E-09	1.54E-08
2527	257059.4	4085607	3.38E-10	4.89E-09	8.64E-08	8.64E-08	4.82E-08	2.26E-07	5.14E-11	7.46E-10	1.35E-08	1.35E-08	7.42E-09	3.52E-08	2.79E-11	4.03E-10	6.00E-09	6.00E-09	2.97E-09	1.54E-08
2528	257049.6	4085585	3.38E-10	4.88E-09	8.62E-08	8.62E-08	4.81E-08	2.26E-07	5.12E-11	7.44E-10	1.35E-08	1.35E-08	7.40E-09	3.51E-08	2.78E-11	4.02E-10	5.99E-09	5.99E-09	2.96E-09	1.54E-08
2529	257039.8	4085564	3.35E-10	4.84E-09	8.55E-08	8.55E-08	4.76E-08	2.24E-07	5.08E-11	7.37E-10	1.33E-08	1.33E-08	7.34E-09	3.48E-08	2.76E-11	3.99E-10	5.94E-09	5.94E-09	2.94E-09	1.52E-08
2530	257030	4085543	3.29E-10	4.76E-09	8.41E-08	8.41E-08	4.69E-08	2.20E-07	5.00E-11	7.26E-10	1.31E-08	1.31E-08	7.22E-09	3.43E-08	2.71E-11	3.93E-10	5.84E-09	5.84E-09	2.89E-09	1.50E-08
2531	257020.2	4085522	3.22E-10	4.65E-09	8.21E-08	8.21E-08	4.58E-08	2.15E-07	4.88E-11	7.09E-10	1.28E-08	1.28E-08	7.05E-09	3.35E-08	2.65E-11	3.83E-10	5.71E-09	5.71E-09	2.82E-09	1.46E-08
2532	257010.4	4085500	3.11E-10	4.50E-09	7.95E-08	7.95E-08	4.43E-08	2.08E-07	4.73E-11	6.86E-10	1.24E-08	1.24E-08	6.83E-09	3.24E-08	2.57E-11	3.71E-10	5.53E-09	5.53E-09	2.73E-09	1.42E-08
2533	257000.6	4085479	2.99E-10	4.32E-09	7.63E-08	7.63E-08	4.26E-08	2.00E-07	4.54E-11	6.58E-10	1.19E-08	1.19E-08	6.55E-09	3.11E-08	2.46E-11	3.56E-10	5.30E-09	5.30E-09	2.62E-09	1.36E-08
2534	256990.9	4085458	2.84E-10	4.11E-09	7.26E-08	7.26E-08	4.05E-08	1.90E-07	4.31E-11	6.26E-10	1.13E-08	1.13E-08	6.23E-09	2.96E-08	2.34E-11	3.39E-10	5.04E-09	5.04E-09	2.50E-09	1.29E-08
2535	256981.1	4085437	2.68E-10	3.87E-09	6.84E-08	6.84E-08	3.81E-08	1.79E-07	4.07E-11	5.90E-10	1.07E-08	1.07E-08	5.87E-09	2.79E-08	2.21E-11	3.19E-10	4.75E-09	4.75E-09	2.35E-09	1.22E-08
2536	256971.3	4085415	2.51E-10	3.62E-09	6.40E-08	6.40E-08	3.57E-08	1.68E-07	3.80E-11	5.52E-10	9.99E-09	9.99E-09	5.49E-09	2.61E-08	2.07E-11	2.99E-10	4.45E-09	4.45E-09	2.20E-09	1.14E-08
2537	256961.5	4085394	2.33E-10	3.37E-09	5.95E-08	5.95E-08	3.32E-08	1.56E-07	3.53E-11	5.13E-10	9.29E-09	9.29E-09	5.10E-09	2.42E-08	1.92E-11	2.78E-10	4.13E-09	4.13E-09	2.04E-09	1.06E-08
2538	256951.7	4085373	2.15E-10	3.12E-09	5.50E-08	5.50E-08	3.07E-08	1.44E-07	3.27E-11	4.75E-10	8.59E-09	8.59E-09	4.72E-09	2.24E-08	1.78E-11	2.57E-10	3.82E-09	3.82E-09	1.89E-09	9.81E-09
2539	256941.9	4085352	1.99E-10	2.88E-09	5.09E-08	5.09E-08	2.84E-08	1.33E-07	3.02E-11	4.39E-10	7.94E-09	7.94E-09	4.37E-09	2.07E-08	1.64E-11	2.37E-10	3.53E-09	3.53E-09	1.75E-09	9.07E-09
2540	256932.1	4085330	1.84E-10	2.66E-09	4.70E-08	4.70E-08	2.62E-08	1.23E-07	2.79E-11	4.06E-10	7.34E-09	7.34E-09	4.04E-09	1.92E-08	1.52E-11	2.20E-10	3.27E-09	3.27E-09	1.62E-09	8.39E-09
2541	256922.4	4085309	1.71E-10	2.47E-09	4.36E-08	4.36E-08	2.43E-08	1.14E-07	2.59E-11	3.76E-10	6.81E-09	6.81E-09	3.74E-09	1.78E-08	1.41E-11	2.04E-10	3.03E-09	3.03E-09	1.50E-09	7.78E-09
2542	256912.6	4085288	1.59E-10	2.31E-09	4.07E-08	4.07E-08	2.27E-08	1.07E-07	2.42E-11	3.51E-10	6.36E-09	6.36E-09	3.49E-09	1.66E-08	1.31E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.26E-09
2543	256902.8	4085267	1.50E-10	2.17E-09	3.83E-08	3.83E-08	2.13E-08	1.00E-07	2.27E-11	3.30E-10	5.97E-09	5.97E-09	3.28E-09	1.56E-08	1.23E-11	1.79E-10	2.66E-09	2.66E-09	1.32E-09	6.82E-09
2544	256893	4085245	1.42E-10	2.05E-09	3.62E-08	3.62E-08	2.02E-08	9.48E-08	2.15E-11	3.12E-10	5.65E-09	5.65E-09	3.11E-09	1.48E-08	1.17E-11	1.69E-10	2.52E-09	2.52E-09	1.25E-09	6.46E-09
2545	256883.2	4085224	1.35E-10	1.95E-09	3.45E-08	3.45E-08	1.92E-08	9.04E-08	2.05E-11	2.98E-10	5.39E-09	5.39E-09	2.96E-09	1.41E-08	1.11E-11	1.61E-10	2.40E-09	2.40E-09	1.19E-09	6.15E-09
2546	256873.4	4085203	1.30E-10	1.87E-09	3.31E-08	3.31E-08	1.84E-08	8.66E-08	1.97E-11	2.85E-10	5.17E-09	5.17E-09	2.84E-09	1.35E-08	1.07E-11	1.54E-10	2.30E-09	2.30E-09	1.14E-09	5.90E-09
2547	257594.1	4085855	3.05E-10	4.41E-09	7.79E-08	7.79E-08	4.34E-08	2.04E-07	4.63E-11	6.72E-10	1.22E-08	1.22E-08	6.69E-09	3.17E-08	2.51E-11	3.64E-10	5.41E-09	5.41E-09	2.68E-09	1.39E-08
2548	257618.4	4085854	3.05E-10	4.41E-09	7.78E-08	7.78E-08	4.34E-08	2.04E-07	4.62E-11	6.71E-10	1.21E-08	1.21E-08	6.68E-09	3.17E-08	2.51E-11	3.63E-10	5.41E-09	5.41E-09	2.68E-09	1.39E-08
2549	257642.7	4085853	3.04E-10	4.40E-09	7.76E-08	7.76E-08	4.33E-08	2.03E-07	4.61E-11	6.70E-10	1.21E-08	1.21E-08	6.66E-09	3.16E-08	2.51E-11	3.62E-10	5.39E-09	5.39E-09	2.67E-09	1.38E-08
2550	257667	4085852	3.03E-10	4.38E-09	7.73E-08	7.73E-08	4.31E-08	2.02E-07	4.59E-11	6.67E-10	1.21E-08	1.21E-08	6.63E-09	3.15E-08	2.49E-11	3.61E-10	5.37E-09	5.37E-09	2.66E-09	1.38E-08
2551	257691.3	4085851	3.01E-10	4.35E-09	7.68E-08	7.68E-08	4.28E-08	2.01E-07	4.56E-11	6.63E-10	1.20E-08	1.20E-08	6.59E-09	3.13E-08	2.48E-11	3.59E-10	5.34E-09	5.34E-09	2.64E-09	1.37E-08
2552	257715.5	4085850	2.98E-10	4.31E-09	7.62E-08	7.62E-08	4.25E-08	1.99E-07	4.53E-11	6.57E-10	1.19E-08	1.19E-08	6.54E-09	3.10E-08	2.46E-11	3.56E-10	5.29E-09	5.29E-09	2.62E-09	1.36E-08
2553	257739.8	4085848	2.95E-10	4.27E-09	7.54E-08	7.54E-08	4.20E-08	1.97E-07	4.48E-11	6.50E-10	1.18E-08	1.18E-08	6.47E-09	3.07E-08	2.43E-11	3.52E-10	5.24E-09	5.24E-09	2.59E-09	1.34E-08
2554	257764.1	4085847	2.90E-10	4.19E-09	7.41E-08	7.41E-08	4.13E-08	1.94E-07	4.40E-11	6.39E-10	1.16E-08	1.16E-08	6.36E-09	3.02E-08	2.39E-11	3.46E-10	5.15E-09	5.15E-09	2.55E-09	1.32E-08
2555	257788.4	4085846	2.85E-10	4.13E-09	7.29E-08	7.29E-08	4.07E-08	1.91E-07	4.33E-11	6.29E-10	1.14E-08	1.14E-08	6.26E-09	2.97E-08	2.35E-11	3.40E-10	5.07E-09	5.07E-09	2.51E-09	1.30E-08
2556	257812.7	4085845	2.81E-10	4.06E-09	7.17E-08	7.17E-08	4.00E-08	1.88E-07	4.26E-11	6.19E-10	1.12E-08	1.12E-08	6.16E-09	2.92E-08	2.31E-11	3.35E-10	4.98E-09	4.98E-09	2.47E-09	1.28E-08
2557	257837	4085844	2.76E-10	3.99E-09	7.04E-08	7.04E-08	3.92E-08	1.84E-07	4.18E-11	6.07E-10	1.10E-08	1.10E-08	6.04E-09	2.87E-08	2.27E-11	3.29E-10	4.89E-09	4.89E-09	2.42E-09	1.26E-08
2558	257861.2	4085843	2.70E-10	3.91E-09	6.90E-08	6.90E-08	3.85E-08	1.81E-07	4.10E-11	5.95E-10	1.08E-08	1.08E-08	5.92E-09	2.81E-08	2.23E-11	3.22E-10	4.79E-09	4.79E-09	2.37E-09	1.23E-08
2559	257885.5	4085842	2.64E-10	3.82E-09	6.75E-08	6.75E-08	3.77E-08	1.77E-07	4.01E-11	5.83E-10	1.05E-08	1.05E-08	5.80E-09	2.75E-08	2.18E-11	3.15E-10	4.69E-09	4.69E-09	2.32E-09	1.20E-08
2560	257909.8	4085841	2.59E-10	3.74E-09	6.60E-08	6.60E-08	3.68E-08	1.73E-07	3.92E-11	5.70E-10	1.03E-08	1.03E-08	5.67E-09	2.69E-08	2.13E-11	3.08E-10	4.59E-09	4.59E-09	2.27E-09	1.18E-08
2561	257934.1	4085840	2.53E-10	3.65E-09	6.45E-08	6.45E-08	3.60E-08	1.69E-07	3.83E-11	5.56E-10	1.01E-08	1.01E-08	5.54E-09	2.63E-08	2.08E-11	3.01E-10	4.48E-09	4.48E-09	2.22E-09	1.15E-08
2562	257958.4	4085839	2.47E-10	3.57E-09	6.30E-08	6.30E-08	3.51E-08	1.65E-07	3.74E-11	5.43E-10	9.83E-09	9.83E-09	5.40E-09	2.56E-08	2.03E-11	2.94E-10	4.37E-09	4.37E-09	2.16E-09	1.12E-08
2563	257982.6	4085838	2.40E-10	3.48E-09	6.14E-08	6.14E-08	3.42E-08	1.61E-07	3.65E-11	5.30E-10	9.59E-09	9.59E-09	5.27E-09	2.50E-08	1.98E-11	2.87E-10	4.27E-09	4.27E-09	2.11E-09	1.10E-08
2564	258006.9	4085837	2.34E-10	3.39E-09	5.99E-08	5.99E-08	3.34E-08	1.57E-07	3.56E-11	5.17E-10	9.35E-09	9.35E-09	5.14E-09	2.44E-08	1.93E-11	2.80E-10	4.16E-09	4.16E-09	2.06E-09	1.07E-08
2565	258031.2	4085836	2.29E-10	3.31E-09	5.84E-08	5.84E-08	3.26E-08	1.53E-07	3.47E-11	5.04E-10	9.12E-09	9.12E-09	5.01E-09	2.38E-08	1.88E-11	2.73E-10	4.06E-09	4.06E-09	2.01E-09	1.04E-08
2566	258055.5	4085834	2.23E-10	3.22E-09	5.69E-08	5.69E-08	3.17E-08	1.49E-07	3.38E-11	4.91E-10	8.89E-09	8.89E-09	4.89E-09	2.32E-08	1.84E-11	2.66E-10	3.95E-09	3.95E-09	1.96E-09	1.01E-08
2567	258079.8	4085833	2.17E-10	3.14E-09	5.55E-08	5.55E-08	3.09E-08	1.45E-07	3.30E-11	4.78E-10	8.66E-09	8.66E-09	4.76E-09	2.26E-08	1.79E-11	2.59E-10	3.85E-09	3.85E-09	1.91E-09	9.89E-09
2568	258104.1	4085832	2.11E-10	3.06E-09	5.40E-08	5.40E-08	3.01E-08	1.41E-07	3.21E-11	4.66E-10	8.43E-09	8.43E-09	4.63E-09	2.20E-08	1.74E-11	2.52E-10	3.75E-09	3.75E-09	1.86E-09	9.63E-09
2569	258128.3	4085831	2.05E-10	2.97E-09	5.25E-08	5.25E-08	2.93E-08	1.37E-07	3.12E-11	4.53E-10	8.19E-09	8.19E-09	4.51E-09	2.14E-08	1.69E-11	2.45E-10	3.65E-09	3.65E-09	1.80E-09	9.36E-09
2570	258152.6	4085830	1.99E-10	2.88E-09	5.09E-08	5.09E-08	2.84E-08	1.33E-07	3.03E-11	4.39E-10	7.95E-09	7.95E-09	4.37E-09	2.07E-08	1.64E-11	2.38E-10	3.54E-09	3.54E-09	1.75E-09	9.08E-09
2571	258176.9	4085829	1.93E-10	2.79E-09	4.93E-08	4.93E-08	2.75E-08	1.29E-07	2.93E-11	4.26E-10	7.70E-09	7.70E-09	4.23E-09	2.01E-08	1.59E-11	2.30E-10	3.43E-09	3.43E-09	1.70E-09	8.80E-09
2572	258201.2	4085828	1.87E-10	2.70E-09	4.77E-08	4.77E-08	2.66E-08	1.25E-07	2.83E-11	4.11E-10	7.44E-09	7.44E-09	4.09E-09	1.94E-08	1.54E-11	2.23E-10	3.31E-09	3.31E-09	1.64E-09	8.50E-09
2573	258225.5	4085827	1.80E-10	2.61E-09	4.60E-08	4.60E-08	2.57E-08	1.21E-07	2.74E-11	3.97E-10	7.19E-09	7.19E-09	3.95E-09	1.88E-08	1.49E-11	2.15E-10	3.20E-09	3.20E-09	1.58E-09	8.21E-09
2574	258249.7	4085826	1.74E-10	2.51E-09	4.44E-08	4.44E-08	2.47E-08	1.16E-07	2.64E-11	3.83E-10	6.93E-09	6.93E-09	3.81E-09	1.81E-08	1.43E-11	2.07E-10	3.08E-09	3.08E-09	1.53E-09	7.92E-09
2575	258274	4085825	1.67E-10	2.42E-09	4.28E-08	4.28E-08	2.38E-08	1.12E-07	2.54E-11	3.69E-10	6.68E-09	6.68E-09	3.67E-09	1.74E-08	1.38E-11	2.00E-10	2.97E-09	2.97E-09	1.47E-09	7.63E-09
2576	258298.3	4085824	1.61E-10	2.33E-09	4.12E-08	4.12E-08	2.30E-08	1.08E-07	2.45E-11	3.55E-10	6.43E-09	6.43E-09	3.54E-09	1.68E-08	1.33E-11	1.92E-10	2.86E-09	2.86E-09	1.42E-09	7.35E-09
2577	258322.6	4085823	1.55E-10	2.24E-09	3.96E-08	3.96E-08	2.21E-08	1.04E-07	2.36E-11	3.42E-10	6.19E-09	6.19E-09	3.40E-09	1.61E-08	1.28E-11	1.85E-10	2.75E-09	2.75E-09	1.36E-09	7.07E-09
2578	258346.9	4085822	1.49E-10	2.16E-09	3.81E-08	3.81E-08	2.13E-08	9.98E-08	2.26E-11	3.29E-10	5.95E-09	5.95E-09	3.27E-09	1.55E-08	1.23E-11	1.78E-10	2.65E-09	2.65E-09	1.31E-09	6.80E-09
2579	258371.2	4085821	1.43E-10	2.07E-09	3.66E-08	3.66E-08	2.04E-08	9.59E-08	2.18E-11	3.16E-10	5.72E-09	5.72E-09	3.14E-09	1.49E-08	1.18E-11	1.71E-10	2.55E-09	2.55E-09	1.26E-09	6.53E-09
2580	258395.4	4085819	1.38E-10	1.99E-09	3.52E-08	3.52E-08	1.96E-08	9.22E-08	2.09E-11	3.04E-10	5.50E-09	5.50E-09	3.02E-09	1.43E-08	1.14E-11	1.64E-10	2.45E-09	2.45E-09	1.21E-09	6.28E-09
2581	257580.6	4086047	2.11E-10	3.06E-09	5.40E-08	5.40E-08	3.01E-08	1.41E-07	3.21E-11	4.66E-10	8.43E-09	8.43E-09	4.63E-09	2.20E-08	1.74E-11	2.52E-10	3.75E-09	3.75E-09	1.86E-09	9.62E-09
2582	257558.2	4086038	2.16E-10	3.12E-09	5.50E-08	5.50E-08	3.07E-08	1.44E-07	3.27E-11	4.75E-10	8.59E-09	8.59E-09	4.72E-09	2.24E-08	1.78E-11	2.57E-10	3.82E-09	3.82E-09	1.89E-09	9.81E-09
2583	257535.8	4086030	2.20E-10	3.18E-09	5.61E-08	5.61E-08	3.13E-08	1.47E-07	3.34E-11	4.84E-10	8.77E-09	8.77E-09	4.82E-09	2.29E-08	1.81E-11	2.62E-10	3.90E-09	3.90E-09	1.93E-09	1.00E-08
2584	257513.4	4086022	2.23E-10	3.23E-09	5.71E-08	5.71E-08	3.18E-08	1.49E-07	3.39E-11	4.92E-10	8.91E-09	8.91E-09	4.90E-09	2.32E-08	1.84E-11	2.66E-10	3.96E-09	3.96E-09	1.96E-09	1.02E-08
2585	257490.9	4086014	2.27E-10	3.28E-09	5.79E-08	5.79E-08	3.23E-08	1.52E-07	3.44E-11	5.00E-10	9.05E-09	9.05E-09	4.97E-09	2.36E-08	1.87E-11	2.70E-10	4.02E-09	4.02E-09	1.99E-09	1.03E-08
2586	257468.5	4086006	2.30E-10	3.33E-09	5.88E-08	5.88E-08	3.28E-08	1.54E-07	3.49E-11	5.07E-10	9.17E-09	9.17E-09	5.04E-09	2.39E-08	1.90E-11	2.74E-10	4.08E-09	4.08E-09	2.02E-09	1.05E-08
2587	257446.1	4085997	2.33E-10	3.37E-09	5.95E-08	5.95E-08	3.32E-08	1.56E-07	3.54E-11	5.14E-10	9.29E-09	9.29E-09	5.11E-09	2.42E-08	1.92E-11	2.78E-10	4.14E-09	4.14E-09	2.05E-09	1.06E-08
2588	257423.7	4085989	2.36E-10	3.41E-09	6.02E-08	6.02E-08	3.36E-08	1.58E-07	3.58E-11	5.20E-10	9.41E-09	9.41E-09	5.17E-09	2.45E-08	1.94E-11	2.81E-10	4.19E-09	4.19E-09	2.07E-09	1.07E-08
2589	257401.3	4085981	2.39E-10	3.45E-09	6.09E-08	6.09E-08	3.40E-08	1.60E-07	3.62E-11	5.26E-10	9.51E-09	9.51E-09	5.23E-09	2.48E-08	1.97E-11	2.84E-10	4.23E-09	4.23E-09	2.10E-09	1.09E-08
2590	257378.9	4085973	2.41E-10	3.49E-09	6.16E-08	6.16E-08	3.43E-08	1.61E-07	3.66E-11	5.31E-10	9.62E-09	9.62E-09	5.29E-09	2.51E-08	1.99E-11	2.88E-10	4.28E-09	4.28E-09	2.12E-09	1.10E-08
2591	257356.5	4085965	2.44E-10	3.53E-09	6.23E-08	6.23E-08	3.47E-08	1.63E-07	3.70E-11	5.37E-10	9.72E-09	9.72E-09	5.34E-09	2.54E-08	2.01E-11	2.91E-10	4.33E-09	4.33E-09	2.14E-09	1.11E-08
2592	257334.1	4085956	2.46E-10	3.56E-09	6.29E-08	6.29E-08	3.51E-08	1.65E-07	3.74E-11	5.43E-10	9.83E-09	9.83E-09	5.40E-09	2.56E-08	2.03E-11	2.94E-10	4.37E-09	4.37E-09	2.16E-09	1.12E-08

2593	257311.7	4085948	2.49E-10	3.60E-09	6.36E-08	6.36E-08	3.55E-08	1.67E-07	3.78E-11	5.49E-10	9.93E-09	9.93E-09	5.46E-09	2.59E-08	2.05E-11	2.97E-10	4.42E-09	4.42E-09	2.19E-09	1.13E-08
2594	257289.3	4085940	2.52E-10	3.64E-09	6.43E-08	6.43E-08	3.59E-08	1.68E-07	3.82E-11	5.55E-10	1.00E-08	1.00E-08	5.52E-09	2.62E-08	2.08E-11	3.00E-10	4.47E-09	4.47E-09	2.21E-09	1.15E-08
2595	257266.9	4085932	2.54E-10	3.68E-09	6.50E-08	6.50E-08	3.62E-08	1.70E-07	3.86E-11	5.60E-10	1.01E-08	1.01E-08	5.58E-09	2.65E-08	2.10E-11	3.03E-10	4.51E-09	4.51E-09	2.23E-09	1.16E-08
2596	257244.5	4085924	2.57E-10	3.71E-09	6.55E-08	6.55E-08	3.65E-08	1.72E-07	3.89E-11	5.65E-10	1.02E-08	1.02E-08	5.62E-09	2.67E-08	2.11E-11	3.06E-10	4.55E-09	4.55E-09	2.25E-09	1.17E-08
2597	257222.1	4085916	2.58E-10	3.74E-09	6.60E-08	6.60E-08	3.68E-08	1.73E-07	3.92E-11	5.69E-10	1.03E-08	1.03E-08	5.66E-09	2.69E-08	2.13E-11	3.08E-10	4.58E-09	4.58E-09	2.27E-09	1.18E-08
2598	257199.6	4085907	2.59E-10	3.75E-09	6.63E-08	6.63E-08	3.69E-08	1.73E-07	3.94E-11	5.72E-10	1.03E-08	1.03E-08	5.69E-09	2.70E-08	2.14E-11	3.09E-10	4.60E-09	4.60E-09	2.28E-09	1.18E-08
2599	257177.2	4085899	2.60E-10	3.76E-09	6.64E-08	6.64E-08	3.70E-08	1.74E-07	3.94E-11	5.73E-10	1.04E-08	1.04E-08	5.70E-09	2.70E-08	2.14E-11	3.10E-10	4.61E-09	4.61E-09	2.28E-09	1.18E-08
2600	257154.8	4085891	2.60E-10	3.76E-09	6.63E-08	6.63E-08	3.70E-08	1.74E-07	3.94E-11	5.72E-10	1.04E-08	1.04E-08	5.69E-09	2.70E-08	2.14E-11	3.10E-10	4.61E-09	4.61E-09	2.28E-09	1.18E-08
2601	257132.4	4085883	2.59E-10	3.74E-09	6.61E-08	6.61E-08	3.69E-08	1.73E-07	3.93E-11	5.70E-10	1.03E-08	1.03E-08	5.68E-09	2.69E-08	2.13E-11	3.09E-10	4.59E-09	4.59E-09	2.27E-09	1.18E-08
2602	257110	4085875	2.58E-10	3.73E-09	6.58E-08	6.58E-08	3.67E-08	1.72E-07	3.91E-11	5.68E-10	1.03E-08	1.03E-08	5.65E-09	2.68E-08	2.12E-11	3.07E-10	4.57E-09	4.57E-09	2.26E-09	1.17E-08
2603	257087.6	4085866	2.56E-10	3.71E-09	6.55E-08	6.55E-08	3.65E-08	1.71E-07	3.89E-11	5.65E-10	1.02E-08	1.02E-08	5.62E-09	2.67E-08	2.11E-11	3.06E-10	4.55E-09	4.55E-09	2.25E-09	1.17E-08
2604	257065.2	4085858	2.55E-10	3.69E-09	6.51E-08	6.51E-08	3.63E-08	1.70E-07	3.87E-11	5.62E-10	1.02E-08	1.02E-08	5.59E-09	2.65E-08	2.10E-11	3.04E-10	4.52E-09	4.52E-09	2.24E-09	1.16E-08
2605	257042.8	4085850	2.53E-10	3.67E-09	6.47E-08	6.47E-08	3.61E-08	1.69E-07	3.85E-11	5.58E-10	1.01E-08	1.01E-08	5.56E-09	2.64E-08	2.09E-11	3.02E-10	4.50E-09	4.50E-09	2.23E-09	1.15E-08
2606	257020.4	4085842	2.52E-10	3.64E-09	6.43E-08	6.43E-08	3.59E-08	1.68E-07	3.82E-11	5.55E-10	1.00E-08	1.00E-08	5.52E-09	2.62E-08	2.08E-11	3.00E-10	4.47E-09	4.47E-09	2.21E-09	1.15E-08
2607	256998	4085834	2.50E-10	3.62E-09	6.39E-08	6.39E-08	3.56E-08	1.67E-07	3.80E-11	5.52E-10	9.98E-09	9.98E-09	5.49E-09	2.60E-08	2.06E-11	2.98E-10	4.44E-09	4.44E-09	2.20E-09	1.14E-08
2608	256975.6	4085826	2.49E-10	3.60E-09	6.35E-08	6.35E-08	3.54E-08	1.66E-07	3.77E-11	5.48E-10	9.91E-09	9.91E-09	5.45E-09	2.59E-08	2.05E-11	2.96E-10	4.41E-09	4.41E-09	2.18E-09	1.13E-08
2609	256943.2	4085796	2.50E-10	3.62E-09	6.40E-08	6.40E-08	3.57E-08	1.67E-07	3.80E-11	5.52E-10	9.99E-09	9.99E-09	5.49E-09	2.61E-08	2.06E-11	2.99E-10	4.44E-09	4.44E-09	2.20E-09	1.14E-08
2610	256933.2	4085774	2.54E-10	3.67E-09	6.48E-08	6.48E-08	3.61E-08	1.70E-07	3.85E-11	5.59E-10	1.01E-08	1.01E-08	5.56E-09	2.64E-08	2.09E-11	3.02E-10	4.50E-09	4.50E-09	2.23E-09	1.16E-08
2611	256923.2	4085752	2.56E-10	3.71E-09	6.55E-08	6.55E-08	3.65E-08	1.71E-07	3.89E-11	5.65E-10	1.02E-08	1.02E-08	5.62E-09	2.67E-08	2.11E-11	3.06E-10	4.55E-09	4.55E-09	2.25E-09	1.17E-08
2612	256913.2	4085731	2.58E-10	3.73E-09	6.59E-08	6.59E-08	3.67E-08	1.72E-07	3.91E-11	5.68E-10	1.03E-08	1.03E-08	5.65E-09	2.68E-08	2.13E-11	3.07E-10	4.58E-09	4.58E-09	2.26E-09	1.17E-08
2613	256903.3	4085709	2.58E-10	3.73E-09	6.59E-08	6.59E-08	3.68E-08	1.73E-07	3.92E-11	5.69E-10	1.03E-08	1.03E-08	5.66E-09	2.69E-08	2.13E-11	3.08E-10	4.58E-09	4.58E-09	2.27E-09	1.18E-08
2614	256893.3	4085687	2.57E-10	3.72E-09	6.56E-08	6.56E-08	3.66E-08	1.72E-07	3.90E-11	5.66E-10	1.03E-08	1.03E-08	5.64E-09	2.67E-08	2.12E-11	3.06E-10	4.56E-09	4.56E-09	2.26E-09	1.17E-08
2615	256883.3	4085666	2.54E-10	3.68E-09	6.50E-08	6.50E-08	3.62E-08	1.70E-07	3.86E-11	5.61E-10	1.01E-08	1.01E-08	5.58E-09	2.65E-08	2.10E-11	3.03E-10	4.51E-09	4.51E-09	2.23E-09	1.16E-08
2616	256873.3	4085644	2.50E-10	3.62E-09	6.39E-08	6.39E-08	3.56E-08	1.67E-07	3.80E-11	5.52E-10	9.98E-09	9.98E-09	5.49E-09	2.60E-08	2.06E-11	2.98E-10	4.44E-09	4.44E-09	2.20E-09	1.14E-08
2617	256863.4	4085622	2.45E-10	3.54E-09	6.25E-08	6.25E-08	3.48E-08	1.64E-07	3.71E-11	5.39E-10	9.75E-09	9.75E-09	5.36E-09	2.54E-08	2.02E-11	2.92E-10	4.34E-09	4.34E-09	2.15E-09	1.11E-08
2618	256853.4	4085601	2.37E-10	3.43E-09	6.06E-08	6.06E-08	3.38E-08	1.59E-07	3.60E-11	5.23E-10	9.47E-09	9.47E-09	5.20E-09	2.47E-08	1.96E-11	2.83E-10	4.21E-09	4.21E-09	2.08E-09	1.08E-08
2619	256843.4	4085579	2.29E-10	3.31E-09	5.84E-08	5.84E-08	3.26E-08	1.53E-07	3.47E-11	5.04E-10	9.12E-09	9.12E-09	5.01E-09	2.38E-08	1.88E-11	2.73E-10	4.06E-09	4.06E-09	2.01E-09	1.04E-08
2620	256833.4	4085557	2.19E-10	3.16E-09	5.59E-08	5.59E-08	3.11E-08	1.46E-07	3.32E-11	4.82E-10	8.72E-09	8.72E-09	4.79E-09	2.28E-08	1.80E-11	2.61E-10	3.88E-09	3.88E-09	1.92E-09	9.96E-09
2621	256823.4	4085536	2.08E-10	3.00E-09	5.30E-08	5.30E-08	2.96E-08	1.39E-07	3.15E-11	4.58E-10	8.28E-09	8.28E-09	4.55E-09	2.16E-08	1.71E-11	2.48E-10	3.68E-09	3.68E-09	1.82E-09	9.46E-09
2622	256813.5	4085514	1.96E-10	2.83E-09	5.00E-08	5.00E-08	2.79E-08	1.31E-07	2.97E-11	4.31E-10	7.81E-09	7.81E-09	4.29E-09	2.04E-08	1.61E-11	2.33E-10	3.47E-09	3.47E-09	1.72E-09	8.92E-09
2623	256803.5	4085492	1.84E-10	2.66E-09	4.69E-08	4.69E-08	2.61E-08	1.23E-07	2.79E-11	4.05E-10	7.32E-09	7.32E-09	4.03E-09	1.91E-08	1.51E-11	2.19E-10	3.26E-09	3.26E-09	1.61E-09	8.36E-09
2624	256793.5	4085471	1.71E-10	2.48E-09	4.38E-08	4.38E-08	2.44E-08	1.15E-07	2.60E-11	3.78E-10	6.83E-09	6.83E-09	3.76E-09	1.78E-08	1.41E-11	2.04E-10	3.04E-09	3.04E-09	1.51E-09	7.80E-09
2625	256783.5	4085449	1.60E-10	2.31E-09	4.07E-08	4.07E-08	2.27E-08	1.07E-07	2.42E-11	3.52E-10	6.36E-09	6.36E-09	3.50E-09	1.66E-08	1.32E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.27E-09
2626	256773.5	4085427	1.48E-10	2.15E-09	3.79E-08	3.79E-08	2.11E-08	9.93E-08	2.25E-11	3.27E-10	5.92E-09	5.92E-09	3.26E-09	1.54E-08	1.22E-11	1.77E-10	2.63E-09	2.63E-09	1.30E-09	6.76E-09
2627	256763.6	4085406	1.38E-10	2.00E-09	3.54E-08	3.54E-08	1.97E-08	9.26E-08	2.10E-11	3.05E-10	5.52E-09	5.52E-09	3.04E-09	1.44E-08	1.14E-11	1.65E-10	2.46E-09	2.46E-09	1.22E-09	6.31E-09
2628	256753.6	4085384	1.30E-10	1.87E-09	3.31E-08	3.31E-08	1.85E-08	8.67E-08	1.97E-11	2.86E-10	5.17E-09	5.17E-09	2.84E-09	1.35E-08	1.07E-11	1.55E-10	2.30E-09	2.30E-09	1.14E-09	5.90E-09
2629	256743.6	4085362	1.22E-10	1.77E-09	3.12E-08	3.12E-08	1.74E-08	8.16E-08	1.85E-11	2.69E-10	4.87E-09	4.87E-09	2.68E-09	1.27E-08	1.01E-11	1.46E-10	2.17E-09	2.17E-09	1.07E-09	5.56E-09
2630	256733.6	4085341	1.16E-10	1.67E-09	2.95E-08	2.95E-08	1.65E-08	7.74E-08	1.76E-11	2.55E-10	4.61E-09	4.61E-09	2.54E-09	1.20E-08	9.54E-12	1.38E-10	2.05E-09	2.05E-09	1.02E-09	5.27E-09
2631	256723.7	4085319	1.10E-10	1.60E-09	2.82E-08	2.82E-08	1.57E-08	7.37E-08	1.67E-11	2.43E-10	4.40E-09	4.40E-09	2.42E-09	1.15E-08	9.09E-12	1.31E-10	1.96E-09	1.96E-09	9.69E-10	5.02E-09
2632	256713.7	4085297	1.06E-10	1.53E-09	2.70E-08	2.70E-08	1.51E-08	7.07E-08	1.60E-11	2.33E-10	4.22E-09	4.22E-09	2.32E-09	1.10E-08	8.72E-12	1.26E-10	1.88E-09	1.88E-09	9.29E-10	4.82E-09
2633	256703.7	4085276	1.02E-10	1.47E-09	2.60E-08	2.60E-08	1.45E-08	6.81E-08	1.55E-11	2.24E-10	4.06E-09	4.06E-09	2.23E-09	1.06E-08	8.39E-12	1.21E-10	1.81E-09	1.81E-09	8.94E-10	4.64E-09
2634	256693.7	4085254	9.83E-11	1.42E-09	2.51E-08	2.51E-08	1.40E-08	6.58E-08	1.49E-11	2.17E-10	3.92E-09	3.92E-09	2.16E-09	1.02E-08	8.11E-12	1.17E-10	1.74E-09	1.74E-09	8.64E-10	4.48E-09
2635	256683.7	4085232	9.53E-11	1.38E-09	2.43E-08	2.43E-08	1.36E-08	6.37E-08	1.45E-11	2.10E-10	3.80E-09	3.80E-09	2.09E-09	9.91E-09	7.85E-12	1.14E-10	1.69E-09	1.69E-09	8.37E-10	4.34E-09
2636	256673.8	4085211	9.26E-11	1.34E-09	2.37E-08	2.37E-08	1.32E-08	6.19E-08	1.41E-11	2.04E-10	3.69E-09	3.69E-09	2.03E-09	9.63E-09	7.63E-12	1.10E-10	1.64E-09	1.64E-09	8.13E-10	4.22E-09
2637	257603	4086055	2.07E-10	3.00E-09	5.29E-08	5.29E-08	2.95E-08	1.38E-07	3.14E-11	4.56E-10	8.26E-09	8.26E-09	4.54E-09	2.15E-08	1.71E-11	2.47E-10	3.67E-09	3.67E-09	1.82E-09	9.43E-09
2638	257627.3	4086054	2.06E-10	2.98E-09	5.26E-08	5.26E-08	2.93E-08	1.38E-07	3.12E-11	4.54E-10	8.21E-09	8.21E-09	4.51E-09	2.14E-08	1.70E-11	2.45E-10	3.65E-09	3.65E-09	1.81E-09	9.38E-09
2639	257651.6	4086053	2.04E-10	2.96E-09	5.22E-08	5.22E-08	2.91E-08	1.37E-07	3.10E-11	4.50E-10	8.15E-09	8.15E-09	4.48E-09	2.13E-08	1.68E-11	2.44E-10	3.63E-09	3.63E-09	1.79E-09	9.31E-09
2640	257675.8	4086051	2.02E-10	2.93E-09	5.17E-08	5.17E-08	2.88E-08	1.35E-07	3.07E-11	4.46E-10	8.07E-09	8.07E-09	4.44E-09	2.11E-08	1.67E-11	2.41E-10	3.59E-09	3.59E-09	1.78E-09	9.22E-09
2641	257700.1	4086050	2.00E-10	2.90E-09	5.11E-08	5.11E-08	2.85E-08	1.34E-07	3.04E-11	4.41E-10	7.98E-09	7.98E-09	4.39E-09	2.08E-08	1.65E-11	2.39E-10	3.55E-09	3.55E-09	1.76E-09	9.12E-09
2642	257724.4	4086049	1.98E-10	2.86E-09	5.05E-08	5.05E-08	2.81E-08	1.32E-07	3.00E-11	4.35E-10	7.88E-09	7.88E-09	4.33E-09	2.06E-08	1.63E-11	2.36E-10	3.51E-09	3.51E-09	1.74E-09	9.00E-09
2643	257748.7	4086048	1.95E-10	2.81E-09	4.97E-08	4.97E-08	2.77E-08	1.30E-07	2.95E-11	4.29E-10	7.76E-09	7.76E-09	4.26E-09	2.02E-08	1.60E-11	2.32E-10	3.45E-09	3.45E-09	1.71E-09	8.86E-09
2644	257773	4086047	1.91E-10	2.76E-09	4.88E-08	4.88E-08	2.72E-08	1.28E-07	2.90E-11	4.21E-10	7.62E-09	7.62E-09	4.19E-09	1.99E-08	1.58E-11	2.28E-10	3.39E-09	3.39E-09	1.68E-09	8.70E-09
2645	257797.2	4086046	1.87E-10	2.71E-09	4.79E-08	4.79E-08	2.67E-08	1.25E-07	2.84E-11	4.13E-10	7.47E-09	7.47E-09	4.11E-09	1.95E-08	1.54E-11	2.23E-10	3.33E-09	3.33E-09	1.65E-09	8.53E-09
2646	257821.5	4086045	1.83E-10	2.65E-09	4.69E-08	4.69E-08	2.61E-08	1.23E-07	2.78E-11	4.04E-10	7.32E-09	7.32E-09	4.02E-09	1.91E-08	1.51E-11	2.19E-10	3.25E-09	3.25E-09	1.61E-09	8.35E-09
2647	257845.8	4086044	1.79E-10	2.59E-09	4.58E-08	4.58E-08	2.55E-08	1.20E-07	2.72E-11	3.95E-10	7.15E-09	7.15E-09	3.93E-09	1.87E-08	1.48E-11	2.14E-10	3.18E-09	3.18E-09	1.57E-09	8.17E-09
2648	257870.1	4086043	1.75E-10	2.53E-09	4.48E-08	4.48E-08	2.50E-08	1.17E-07	2.66E-11	3.86E-10	6.99E-09	6.99E-09	3.84E-09	1.82E-08	1.44E-11	2.09E-10	3.11E-09	3.11E-09	1.54E-09	7.98E-09
2649	257894.4	4086042	1.71E-10	2.48E-09	4.37E-08	4.37E-08	2.44E-08	1.15E-07	2.60E-11	3.77E-10	6.83E-09	6.83E-09	3.75E-09	1.78E-08	1.41E-11	2.04E-10	3.04E-09	3.04E-09	1.50E-09	7.80E-09
2650	257918.7	4086041	1.68E-10	2.42E-09	4.28E-08	4.28E-08	2.39E-08	1.12E-07	2.54E-11	3.69E-10	6.68E-09	6.68E-09	3.67E-09	1.74E-08	1.38E-11	2.00E-10	2.97E-09	2.97E-09	1.47E-09	7.63E-09
2651	257942.9	4086040	1.64E-10	2.37E-09	4.19E-08	4.19E-08	2.34E-08	1.10E-07	2.49E-11	3.61E-10	6.54E-09	6.54E-09	3.60E-09	1.71E-08	1.35E-11	1.96E-10	2.91E-09	2.91E-09	1.44E-09	7.47E-09
2652	257967.2	4086039	1.61E-10	2.33E-09	4.11E-08	4.11E-08	2.29E-08	1.08E-07	2.44E-11	3.54E-10	6.41E-09	6.41E-09	3.53E-09	1.67E-08	1.33E-11	1.92E-10	2.85E-09	2.85E-09	1.41E-09	7.33E-09
2653	257991.5	4086038	1.58E-10	2.28E-09	4.03E-08	4.03E-08	2.25E-08	1.06E-07	2.40E-11	3.48E-10	6.30E-09	6.30E-09	3.46E-09	1.64E-08	1.30E-11	1.88E-10	2.80E-09	2.80E-09	1.39E-09	7.19E-09
2654	258015.8	4086036	1.55E-10	2.24E-09	3.96E-08	3.96E-08	2.21E-08	1.04E-07	2.35E-11	3.42E-10	6.19E-09	6.19E-09	3.40E-09	1.61E-08	1.28E-11	1.85E-10	2.75E-09	2.75E-09	1.36E-09	7.07E-09
2655	258040.1	4086035	1.52E-10	2.20E-09	3.89E-08	3.89E-08	2.17E-08	1.02E-07	2.31E-11	3.36E-10	6.08E-09	6.08E-09	3.34E-09	1.59E-08	1.26E-11	1.82E-10	2.70E-09	2.70E-09	1.34E-09	6.94E-09
2656	258064.3	4086034	1.50E-10	2.16E-09	3.82E-08	3.82E-08	2.13E-08	1.00E-07	2.27E-11	3.30E-10	5.97E-09	5.97E-09	3.28E-09	1.56E-08	1.23E-11	1.78E-10	2.65E-09	2.65E-09	1.31E-09	6.81E-09
2657	258088.6	4086033	1.47E-10	2.12E-09	3.75E-08	3.75E-08	2.09E-08	9.81E-08	2.23E-11	3.23E-10	5.85E-09	5.85E-09	3.22E-09	1.53E-08	1.21E-11	1.75E-10	2.60E-09	2.60E-09	1.29E-09	6.68E-09
2658	258112.9	4086032	1.44E-10	2.08E-09	3.67E-08	3.67E-08	2.04E-08	9.60E-08	2.18E-11	3.16E-10	5.72E-09	5.72E-09	3.15E-09	1.49E-08	1.18E-11	1.71E-10	2.55E-09	2.55E-09	1.26E-09	6.54E-09
2659	258137.2	4086031	1.40E-10	2.03E-09	3.58E-08	3.58E-08	2.00E-08	9.37E-08	2.13E-11	3.09E-10	5.59E-09	5.59E-09	3.07E-09	1.46E-08	1.16E-11	1.67E-10	2.49E-09	2.49E-09	1.23E-09	6.38E-09
2660	258161.5	4086030	1.37E-10	1.98E-09	3.49E-08	3.49E-08	1.95E-08	9.14E-08	2.07E-11	3.01E-10	5.45E-09	5.45E-09	3.00E-09	1.42E-08	1.13E-11	1.63E-10	2.42E-09	2.42E-09	1.20E-09	6.22E-09
2661	258185.8	4086029	1.33E-10	1.92E-09	3.40E-08	3.40E-08	1.89E-08	8.89E-08	2.02E-11	2.93E-10	5.30E-09	5.30E-09	2.92E-09	1.38E-08	1.10E-11	1.59E-10	2.36E-09	2.36E-09	1.17E-09	6.06E-09
2662	258210	4086028	1.29E-10	1.87E-09	3.30E-08	3.30E-08	1.84E-08	8.64E-08	1.96E-11	2.85E-10	5.16E-09	5.16E-09	2.83E-09	1.35E-08	1.07E-11	1.54E-10	2.29E-09	2.29E-09	1.14E-09	5.89E-09
2663	258234.3	4086027	1.26E-10	1.82E-09	3.21E-08	3.21E-08	1.79E-08	8.40E-08	1.91E-11	2.77E-10	5.01E-09	5.01E-09	2.75E-09	1.31E-08	1.04E-11	1.50E-10	2.23E-09	2.23E-09	1.10E-09	5.72E-09
2664	258258.6	4086026	1.22E-10	1.76E-09	3.12E-08	3.12E-08	1.74E-08	8.16E-08	1.85E-11	2.69E-10	4.86E-09	4.86E-09	2.67E-09	1.27E-08	1.01E-11	1.45E-10	2.16E-09	2.16E-09	1.07E-09	5.56E-09
2665	258282.9	4086025	1.18E-10	1.71E-09	3.02E-08	3.02E-08	1.69E-08	7.92E-08	1.80E-11	2.61E-10	4.72E-09	4.72E-09	2.60E-09	1.23E-08	9.76E-12	1.41E-10	2.10E-09	2.10E-09	1.04E-09	5.39E-09
2666	258307.2	4086024	1.15E-10	1.66E-09	2.93E-08	2.93E-08	1.64E-08	7.68E-08	1.74E-11	2.53E-10	4.58E-09	4.58E-09	2.52E-09	1.20E-08	9.47E-12	1.37E-10	2.04E-09	2.04E-09	1.01E-09	5.23E-09
2667	258331.4	4086022	1.11E-10	1.61E-09	2.85E-08	2.85E-08	1.59E-08	7.45E-08	1.69E-11	2.46E-10	4.44E-09	4.44E-09	2.44E-09	1.16E-08	9.18E-12	1.33E-10	1.98E-09	1.98E-09	9.79E-10	5.07E-09
2668	258355.7	4086021	1.08E-10	1.56E-09	2.76E-08	2.76E-08	1.54E-08	7.22E-08	1.64E-11	2.38E-10	4.31E-09	4.31E-09	2.37E-09	1.12E-08	8.90E-12	1.29E-10	1.92E-09	1.92E-09	9.49E-10	4.92E-09
2669	258380	4086020	1.05E-10	1.51E-09	2.67E-08	2.67E-08	1.49E-08	7.00E-08	1.59E-11	2.31E-10	4.18E-09	4.18E-09	2.30E-09	1.09E-08	8.63E-12	1.25E-10	1.86E-09	1.86E-09	9.20E-10	4.77E-09
2670	258404.3	4086019	1.02E-10	1.47E-09	2.59E-08	2.59E-08	1.45E-08	6.79E-08	1.54E-11	2.24E-10	4.05E-09	4.05E-09	2.23E-09	1.06E-08	8.37E-12	1.21E-10	1.80E-09	1.80E-09	8.92E-10	4.62E-09
2671	257589.1	4086246	1.55E-10	2.24E-09	3.95E-08	3.95E-08	2.20E-08	1.03E-07	2.35E-11	3.41E-10	6.16E-09	6.16E-09	3.39E-09	1.61E-08	1.27E-11	1.84E-10	2.74E-09	2.74E-09	1.36E-09	7.04E-09
2672	257566.5	4086238	1.58E-10	2.28E-09	4.03E-08	4.03E-08	2.25E-08	1.06E-07	2.40E-11	3.48E-10	6.29E-09	6.29E-09	3.46E-09	1.64E-08	1.30E-11	1.88E-10	2.80E-09	2.80E-09	1.39E-09	7.19E-09
2673	257543.8	4086230	1.61E-10	2.33E-09	4.11E-08	4.11E-08	2.29E-08	1.08E-07	2.44E-11	3.54E-10	6.41E-09	6.41E-09	3.53E-09	1.67E-08	1.33E-11	1.92E-10	2.85E-09	2.85E-09	1.41E-09	7.33E-09
2674	257521.1	4086221	1.64E-10	2.37E-09	4.18E-08	4.18E-08	2.33E-08	1.10E-07	2.49E-11	3.61E-10	6.53E-09	6.53E-09	3.59E-09	1.70E-08	1.35E-11	1.95E-10	2.91E-09	2.91E-09	1.44E-09	7.46E-09
2675	257498.4	4086213	1.67E-10	2.41E-09	4.25E-08	4.25E-08	2.37E-08	1.11E-07	2.53E-11	3.67E-10	6.64E-09	6.64E-09	3.65E-09	1.73E-08	1.37E-11	1.99E-10	2.96E-09	2.96E-09	1.46E-09	7.59E-09
2676	257475.7	4086205	1.69E-10	2.45E-09	4.32E-08	4.32E-08	2.41E-08	1.13E-07	2.57E-11	3.73E-10	6.75E-09	6.75E-09	3.71E-09	1.76E-08	1.39E-11	2.02E-10	3.00E-09	3.00E-09	1.49E-09	7.71E-09
2677	257453	4086196	1.72E-10	2.48E-09	4.38E-08	4.38E-08	2.44E-08	1.15E-07	2.61E-11	3.78E-10	6.85E-09	6.85E-09	3.76E-09	1.79E-08	1.42E-11	2.05E-10	3.05E-09	3.05E-09	1.51E-09	7.82E-09
2678	257430.3	4086188	1.74E-10	2.52E-09	4.45E-08	4.45E-08	2.48E-08	1.16E-07	2.64E-11	3.83E-10	6.94E-09	6.94E-09	3.82E-09	1.81E-08	1.43E-11	2.07E-10	3.09E-09	3.09E-09	1.53E-09	7.93E-09
2679	257407.6	4086180	1.76E-10	2.55E-09	4.50E-08	4.50E-08	2.51E-08	1.18E-07	2.67E-11	3.88E-10	7.03E-09	7.03E-09	3.86E-09	1.83E-08	1.45E-11	2.10E-10	3.13E-09	3.13E-09	1.55E-09	8.03E-09
2680	257384.9	4086172	1.78E-10	2.58E-09	4.55E-08	4.55E-08	2.54E-08	1.19E-07	2.71E-11	3.93E-10	7.11E-09	7.11E-09	3.91E-09	1.85E-08	1.47E-11	2.13E-10	3.16E-09	3.16E-09	1.57E-09	8.12E-09
2681	257362.2	4086163	1.80E-10	2.61E-09	4.60E-08	4.60E-08	2.56E-08	1.20E-07	2.73E-11	3.97E-10	7.18E-09	7.18E-09	3.95E-09	1.87E-08	1.48E-11	2.15E-10	3.20E-09	3.20E-09	1.58E-09	8.20E-09
2682	257339.5	4086155	1.82E-10	2.63E-09	4.65E-08	4.65E-08	2.59E-08	1.22E-07	2.76E-11	4.01E-10	7.26E-09	7.26E-09	3.99E-09	1.89E-08	1.50E-11	2.17E-10	3.23E-09	3.23E-09	1.60E-09	8.29E-09
2683	257316.8	4086147	1.84E-10	2.66E-09	4.71E-08	4.71E-08	2.62E-08	1.23E-07	2.80E-11	4.06E-10	7.35E-09	7.35E-09	4.04E-09	1.92E-08	1.52E-11	2.20E-10	3.27E-09	3.27E-09	1.62E-09	8.39E-09
2684	257294.1	4086138	1.86E-10	2.69E-09	4.75E-08	4.75E-08	2.65E-08	1.24E-07	2.83E-11	4.10E-10	7.42E-09	7.42E-09	4.08E-09	1.94E-08	1.53E-11	2.22E-10	3.30E-09	3.30E-09	1.63E-09	8.48E-09
2685	257271.4	4086130	1.88E-10	2.72E-09	4.80E-08	4.80E-08	2.68E-08	1.26E-07	2.85E-11	4.14E-10	7.50E-09	7.50E-09	4.12E-09	1.96E-08	1.55E-11	2.24E-10	3.33E-09	3.33E-09	1.65E-09	8.56E-09
2686	257248.8	4086122	1.90E-10	2.75E-09	4.85E-08	4.85E-08	2.70E-08	1.27E-07	2.88E-11	4.18E-10	7.57E-09	7.57E-09	4.16E-09	1.97E-08	1.56E-11	2.26E-10	3.37E-09	3.37E-09	1.67E-09	8.64E-09
2687	257226.1	4086114	1.92E-10	2.77E-09	4.90E-08	4.90E-08	2.73E-08	1.28E-07	2.91E-11	4.22E-10	7.64E-09	7.64E-09	4.20E-09	1.99E-08	1.58E-11	2.29E-10	3.40E-09	3.40E-09	1.68E-09	8.73E-09
2688	257203.4	4086105	1.94E-10	2.80E-09	4.94E-08	4.94E-08	2.76E-08	1.29E-07	2.94E-11	4.26E-10	7.72E-09	7.72E-09	4.24E-09	2.01E-08	1.60E-11	2.31E-10	3.43E-09	3.43E-09	1.70E-09	8.81E-09
2689	257180.7	4086097	1.95E-10	2.82E-09	4.99E-08	4.99E-08	2.78E-08	1.31E-07	2.96E-11	4.30E-10	7.79E-09	7.79E-09	4.28E-09	2.03E-08	1.61E-11	2.33E-10	3.46E-09	3.46E-09	1.72E-09	8.89E-09
2690	257158	4086089	1.97E-10	2.85E-09	5.03E-08	5.03E-08	2.80E-08	1.32E-07	2.99E-11	4.34E-10	7.85E-09	7.85E-09	4.32E-09	2.05E-08	1.62E-11	2.35E-10	3.49E-09	3.49E-09	1.73E-09	8.97E-09
2691	257135.3	4086080	1.98E-10	2.87E-09	5.06E-08	5.06E-08	2.82E-08	1.32E-07	3.01E-11	4.36E-10	7.90E-09	7.90E-09	4.34E-09	2.06E-08	1.63E-11	2.36E-10	3.51E-09	3.51E-09	1.74E-09	9.02E-09
2692	257112.6	4086072	1.99E-10	2.88E-09	5.08E-08	5.08E-08	2.83E-08	1.33E-07	3.02E-11	4.38E-10	7.93E-09	7.93E-09	4.36E-09	2.07E-08	1.64E-11	2.37E-10	3.53E-09	3.53E-09	1.75E-09	9.06E-09
2693	257089.9	4086064	1.99E-10	2.88E-09	5.09E-08	5.09E-08	2.84E-08	1.33E-07	3.03E-11	4.39E-10	7.95E-09	7.95E-09	4.37E-09	2.07E-08	1.64E-11	2.38E-10	3.54E-09	3.54E-09	1.75E-09	9.08E-09
2694	257067.2	4086056	2.00E-10	2.89E-09	5.10E-08	5.10E-08	2.84E-08	1.33E-07	3.03E-11	4.40E-10	7.96E-09	7.96E-09	4.37E-09	2.08E-08	1.64E-11	2.38E-10	3.54E-09	3.54E-09	1.75E-09	9.09E-09
2695	257044.5	4086047	1.99E-10	2.88E-09	5.09E-08	5.09E-08	2.84E-08	1.33E-07	3.02E-11	4.39E-10	7.95E-09	7.95E-09	4.37E-09	2.07E-08	1.64E-11	2.38E-10	3.54E-09	3.54E-09	1.75E-09	9.08E-09
2696	257021.8	4086039	1.99E-10	2.88E-09	5.08E-08	5.08E-08	2.83E-08	1.33E-07	3.02E-11	4.38E-10	7.93E-09	7.93E-09	4.36E-09	2.07E-08	1.64E-11	2.37E-10	3.53E-09	3.53E-09	1.75E-09	9.06E-09
2697	256999.1	4086031	1.98E-10	2.87E-09	5.07E-08	5.07E-08	2.83E-08	1.33E-07	3.01E-11	4.37E-10	7.91E-09	7.91E-09	4.35E-09	2.06E-08	1.64E-11	2.37E-10	3.52E-09	3.52E-09	1.74E-09	9.04E-09
2698	256976.4	4086022	1.98E-10	2.86E-09	5.06E-08	5.06E-08	2.82E-08	1.32E-07	3.00E-11	4.36E-10	7.89E-09	7.89E-09	4.34E-09	2.06E-08	1.63E-11	2.36E-10	3.51E-09	3.51E-09	1.74E-09	9.01E-09
2699	256953.8	4086014	1.97E-10	2.86E-09	5.04E-08	5.04E-08	2.81E-08	1.32E-07	3.00E-11	4.35E-10	7.87E-09	7.87E-09	4.33E-09	2.05E-08	1.63E-11	2.35E-10	3.50E-09	3.50E-09	1.73E-09	8.99E-09
2700	256931.1	4086006	1.97E-10	2.85E-09	5.03E-08	5.03E-08	2.81E-08	1.32E-07	2.99E-11	4.34E-10	7.86E-09	7.86E-09	4.32E-09	2.05E-08	1.62E-11	2.35E-10	3.50E-09	3.50E-09	1.73E-09	8.97E-09
2701	256908.4	4085998	1.97E-10	2.84E-09	5.02E-08	5.02E-08	2.80E-08	1.32E-07	2.99E-11	4.33E-10	7.84E-09	7.84E-09	4.31E-09	2.05E-08	1.62E-11	2.35E-10	3.49E-09	3.49E-09	1.73E-09	8.96E-09
2702	256885.7	4085989	1.96E-10	2.84E-09	5.01E-08	5.01E-08	2.80E-08	1.31E-07	2.98E-11	4.33E-10	7.83E-09	7.83E-09	4.30E-09	2.04E-08	1.62E-11	2.34E-10	3.48E-09	3.48E-09	1.72E-09	8.94E-09
2703	256863	4085981	1.96E-10	2.83E-09	5.00E-08	5.00E-08	2.79E-08	1.31E-07	2.97E-11	4.32E-10	7.81E-09	7.81E-09	4.30E-09	2.04E-08	1.62E-11	2.34E-10	3.48E-09	3.48E-09	1.72E-09	8.92E-09
2704	256840.3	4085973	1.95E-10	2.83E-09	4.99E-08	4.99E-08	2.78E-08	1.31E-07	2.97E-11	4.31E-10	7.80E-09	7.80E-09	4.29E-09	2.03E-08	1.61E-11	2.33E-10	3.47E-09	3.47E-09	1.72E-09	8.90E-09
2705	256807.5	4085942	1.98E-10	2.87E-09	5.06E-08	5.06E-08	2.82E-08	1.32E-07	3.01E-11	4.37E-10	7.90E-09	7.90E-09	4.34E-09	2.06E-08	1.63E-11	2.36E-10	3.52E-09	3.52E-09	1.74E-09	9.02E-09
2706	256797.4	4085920	2.01E-10	2.91E-09	5.14E-08	5.14E-08	2.86E-08	1.34E-07	3.05E-11	4.43E-10	8.02E-09	8.02E-09	4.41E-09	2.09E-08	1.66E-11	2.40E-10	3.57E-09	3.57E-09	1.77E-09	9.16E-09
2707	256787.3	4085899	2.04E-10	2.95E-09	5.20E-08	5.20E-08	2.90E-08	1.36E-07	3.09E-11	4.49E-10	8.13E-09	8.13E-09	4.47E-09	2.12E-08	1.68E-11	2.43E-10	3.62E-09	3.62E-09	1.79E-09	9.28E-09
2708	256777.2	4085877	2.06E-10	2.98E-09	5.26E-08	5.26E-08	2.93E-08	1.38E-07	3.12E-11	4.54E-10	8.21E-09	8.21E-09	4.51E-09	2.14E-08	1.70E-11	2.45E-10	3.65E-09	3.65E-09	1.81E-09	9.38E-09
2709	256767.1	4085855	2.07E-10	3.00E-09	5.30E-08	5.30E-08	2.95E-08	1.39E-07	3.15E-11	4.57E-10	8.27E-09	8.27E-09	4.55E-09	2.16E-08	1.71E-11	2.47E-10	3.68E-09	3.68E-09	1.82E-09	9.45E-09
2710	256757	4085833	2.08E-10	3.01E-09	5.32E-08	5.32E-08	2.97E-08	1.39E-07	3.16E-11	4.59E-10	8.30E-09	8.30E-09	4.57E-09	2.17E-08	1.72E-11	2.48E-10	3.69E-09	3.69E-09	1.83E-09	9.48E-09

2711	256746.9	4085811	2.08E-10	3.01E-09	5.32E-08	5.32E-08	2.96E-08	1.39E-07	3.16E-11	4.59E-10	8.30E-09	8.30E-09	4.56E-09	2.17E-08	1.72E-11	2.48E-10	3.69E-09	3.69E-09	1.83E-09	9.48E-09
2712	256736.8	4085789	2.07E-10	2.99E-09	5.29E-08	5.29E-08	2.95E-08	1.38E-07	3.14E-11	4.56E-10	8.26E-09	8.26E-09	4.54E-09	2.15E-08	1.71E-11	2.47E-10	3.67E-09	3.67E-09	1.82E-09	9.43E-09
2713	256726.7	4085767	2.05E-10	2.96E-09	5.23E-08	5.23E-08	2.92E-08	1.37E-07	3.11E-11	4.52E-10	8.17E-09	8.17E-09	4.49E-09	2.13E-08	1.69E-11	2.44E-10	3.64E-09	3.64E-09	1.80E-09	9.33E-09
2714	256716.5	4085745	2.02E-10	2.92E-09	5.15E-08	5.15E-08	2.87E-08	1.35E-07	3.06E-11	4.45E-10	8.05E-09	8.05E-09	4.42E-09	2.10E-08	1.66E-11	2.41E-10	3.58E-09	3.58E-09	1.77E-09	9.19E-09
2715	256706.4	4085723	1.98E-10	2.86E-09	5.05E-08	5.05E-08	2.81E-08	1.32E-07	3.00E-11	4.35E-10	7.88E-09	7.88E-09	4.33E-09	2.06E-08	1.63E-11	2.36E-10	3.50E-09	3.50E-09	1.73E-09	9.00E-09
2716	256696.3	4085701	1.93E-10	2.79E-09	4.92E-08	4.92E-08	2.74E-08	1.29E-07	2.92E-11	4.24E-10	7.68E-09	7.68E-09	4.22E-09	2.00E-08	1.59E-11	2.30E-10	3.42E-09	3.42E-09	1.69E-09	8.77E-09
2717	256686.2	4085679	1.86E-10	2.70E-09	4.76E-08	4.76E-08	2.65E-08	1.25E-07	2.83E-11	4.11E-10	7.43E-09	7.43E-09	4.09E-09	1.94E-08	1.54E-11	2.22E-10	3.31E-09	3.31E-09	1.64E-09	8.49E-09
2718	256676.1	4085657	1.79E-10	2.59E-09	4.58E-08	4.58E-08	2.55E-08	1.20E-07	2.72E-11	3.95E-10	7.15E-09	7.15E-09	3.93E-09	1.86E-08	1.48E-11	2.14E-10	3.18E-09	3.18E-09	1.57E-09	8.16E-09
2719	256666	4085635	1.71E-10	2.48E-09	4.37E-08	4.37E-08	2.44E-08	1.15E-07	2.60E-11	3.77E-10	6.83E-09	6.83E-09	3.75E-09	1.78E-08	1.41E-11	2.04E-10	3.04E-09	3.04E-09	1.50E-09	7.80E-09
2720	256655.9	4085613	1.63E-10	2.35E-09	4.15E-08	4.15E-08	2.32E-08	1.09E-07	2.47E-11	3.58E-10	6.49E-09	6.49E-09	3.57E-09	1.69E-08	1.34E-11	1.94E-10	2.89E-09	2.89E-09	1.43E-09	7.41E-09
2721	256645.8	4085591	1.54E-10	2.22E-09	3.92E-08	3.92E-08	2.19E-08	1.03E-07	2.33E-11	3.39E-10	6.13E-09	6.13E-09	3.37E-09	1.60E-08	1.27E-11	1.83E-10	2.73E-09	2.73E-09	1.35E-09	7.00E-09
2722	256635.7	4085569	1.44E-10	2.09E-09	3.69E-08	3.69E-08	2.06E-08	9.66E-08	2.19E-11	3.18E-10	5.76E-09	5.76E-09	3.17E-09	1.50E-08	1.19E-11	1.72E-10	2.56E-09	2.56E-09	1.27E-09	6.58E-09
2723	256625.6	4085547	1.35E-10	1.96E-09	3.46E-08	3.46E-08	1.93E-08	9.05E-08	2.05E-11	2.98E-10	5.40E-09	5.40E-09	2.97E-09	1.41E-08	1.12E-11	1.61E-10	2.40E-09	2.40E-09	1.19E-09	6.16E-09
2724	256615.5	4085526	1.27E-10	1.83E-09	3.23E-08	3.23E-08	1.80E-08	8.47E-08	1.92E-11	2.79E-10	5.05E-09	5.05E-09	2.78E-09	1.32E-08	1.04E-11	1.51E-10	2.25E-09	2.25E-09	1.11E-09	5.77E-09
2725	256605.4	4085504	1.18E-10	1.71E-09	3.03E-08	3.03E-08	1.69E-08	7.92E-08	1.80E-11	2.61E-10	4.73E-09	4.73E-09	2.60E-09	1.23E-08	9.77E-12	1.41E-10	2.10E-09	2.10E-09	1.04E-09	5.40E-09
2726	256595.3	4085482	1.11E-10	1.61E-09	2.84E-08	2.84E-08	1.58E-08	7.43E-08	1.69E-11	2.45E-10	4.43E-09	4.43E-09	2.44E-09	1.16E-08	9.16E-12	1.32E-10	1.97E-09	1.97E-09	9.76E-10	5.06E-09
2727	256585.2	4085460	1.05E-10	1.51E-09	2.67E-08	2.67E-08	1.49E-08	7.00E-08	1.59E-11	2.31E-10	4.17E-09	4.17E-09	2.29E-09	1.09E-08	8.63E-12	1.25E-10	1.86E-09	1.86E-09	9.19E-10	4.77E-09
2728	256575.1	4085438	9.91E-11	1.43E-09	2.53E-08	2.53E-08	1.41E-08	6.63E-08	1.50E-11	2.18E-10	3.95E-09	3.95E-09	2.17E-09	1.03E-08	8.17E-12	1.18E-10	1.76E-09	1.76E-09	8.70E-10	4.51E-09
2729	256565	4085416	9.44E-11	1.37E-09	2.41E-08	2.41E-08	1.34E-08	6.31E-08	1.43E-11	2.08E-10	3.76E-09	3.76E-09	2.07E-09	9.82E-09	7.78E-12	1.13E-10	1.67E-09	1.67E-09	8.29E-10	4.30E-09
2730	256554.9	4085394	9.05E-11	1.31E-09	2.31E-08	2.31E-08	1.29E-08	6.05E-08	1.37E-11	1.99E-10	3.61E-09	3.61E-09	1.98E-09	9.41E-09	7.46E-12	1.08E-10	1.61E-09	1.61E-09	7.95E-10	4.12E-09
2731	256544.8	4085372	8.72E-11	1.26E-09	2.23E-08	2.23E-08	1.24E-08	5.83E-08	1.32E-11	1.92E-10	3.48E-09	3.48E-09	1.91E-09	9.07E-09	7.19E-12	1.04E-10	1.55E-09	1.55E-09	7.66E-10	3.97E-09
2732	256534.7	4085350	8.43E-11	1.22E-09	2.15E-08	2.15E-08	1.20E-08	5.64E-08	1.28E-11	1.86E-10	3.36E-09	3.36E-09	1.85E-09	8.77E-09	6.95E-12	1.01E-10	1.50E-09	1.50E-09	7.41E-10	3.84E-09
2733	256524.5	4085328	8.18E-11	1.18E-09	2.09E-08	2.09E-08	1.16E-08	5.47E-08	1.24E-11	1.80E-10	3.26E-09	3.26E-09	1.79E-09	8.51E-09	6.74E-12	9.75E-11	1.45E-09	1.45E-09	7.18E-10	3.73E-09
2734	256514.4	4085306	7.95E-11	1.15E-09	2.03E-08	2.03E-08	1.13E-08	5.32E-08	1.21E-11	1.75E-10	3.17E-09	3.17E-09	1.74E-09	8.27E-09	6.56E-12	9.48E-11	1.41E-09	1.41E-09	6.98E-10	3.62E-09
2735	256504.3	4085284	7.74E-11	1.12E-09	1.98E-08	1.98E-08	1.10E-08	5.17E-08	1.17E-11	1.71E-10	3.09E-09	3.09E-09	1.70E-09	8.05E-09	6.38E-12	9.23E-11	1.37E-09	1.37E-09	6.80E-10	3.52E-09
2736	256494.2	4085262	7.54E-11	1.09E-09	1.93E-08	1.93E-08	1.07E-08	5.04E-08	1.14E-11	1.66E-10	3.01E-09	3.01E-09	1.65E-09	7.85E-09	6.22E-12	8.99E-11	1.34E-09	1.34E-09	6.62E-10	3.44E-09
2737	256484.1	4085240	7.36E-11	1.06E-09	1.88E-08	1.88E-08	1.05E-08	4.92E-08	1.12E-11	1.62E-10	2.94E-09	2.94E-09	1.61E-09	7.66E-09	6.07E-12	8.77E-11	1.31E-09	1.31E-09	6.46E-10	3.35E-09
2738	256474	4085218	7.20E-11	1.04E-09	1.84E-08	1.84E-08	1.03E-08	4.81E-08	1.09E-11	1.59E-10	2.87E-09	2.87E-09	1.58E-09	7.49E-09	5.93E-12	8.58E-11	1.28E-09	1.28E-09	6.32E-10	3.28E-09
2739	257611.8	4086255	1.51E-10	2.19E-09	3.86E-08	3.86E-08	2.15E-08	1.01E-07	2.29E-11	3.33E-10	6.03E-09	6.03E-09	3.31E-09	1.57E-08	1.25E-11	1.80E-10	2.68E-09	2.68E-09	1.33E-09	6.88E-09
2740	257636.1	4086253	1.50E-10	2.16E-09	3.82E-08	3.82E-08	2.13E-08	1.00E-07	2.27E-11	3.29E-10	5.96E-09	5.96E-09	3.28E-09	1.56E-08	1.23E-11	1.78E-10	2.65E-09	2.65E-09	1.31E-09	6.81E-09
2741	257660.4	4086252	1.48E-10	2.14E-09	3.77E-08	3.77E-08	2.10E-08	9.87E-08	2.24E-11	3.25E-10	5.89E-09	5.89E-09	3.24E-09	1.54E-08	1.22E-11	1.76E-10	2.62E-09	2.62E-09	1.30E-09	6.72E-09
2742	257684.7	4086251	1.46E-10	2.11E-09	3.72E-08	3.72E-08	2.07E-08	9.74E-08	2.21E-11	3.21E-10	5.81E-09	5.81E-09	3.19E-09	1.51E-08	1.20E-11	1.74E-10	2.58E-09	2.58E-09	1.28E-09	6.63E-09
2743	257709	4086250	1.43E-10	2.07E-09	3.66E-08	3.66E-08	2.04E-08	9.59E-08	2.18E-11	3.16E-10	5.72E-09	5.72E-09	3.14E-09	1.49E-08	1.18E-11	1.71E-10	2.55E-09	2.55E-09	1.26E-09	6.53E-09
2744	257733.2	4086249	1.41E-10	2.04E-09	3.60E-08	3.60E-08	2.01E-08	9.44E-08	2.14E-11	3.11E-10	5.63E-09	5.63E-09	3.09E-09	1.47E-08	1.16E-11	1.68E-10	2.50E-09	2.50E-09	1.24E-09	6.43E-09
2745	257757.5	4086248	1.39E-10	2.01E-09	3.55E-08	3.55E-08	1.98E-08	9.28E-08	2.11E-11	3.06E-10	5.54E-09	5.54E-09	3.04E-09	1.44E-08	1.14E-11	1.65E-10	2.46E-09	2.46E-09	1.22E-09	6.32E-09
2746	257781.8	4086247	1.36E-10	1.97E-09	3.48E-08	3.48E-08	1.94E-08	9.12E-08	2.07E-11	3.01E-10	5.44E-09	5.44E-09	2.99E-09	1.42E-08	1.12E-11	1.63E-10	2.42E-09	2.42E-09	1.20E-09	6.21E-09
2747	257806.1	4086246	1.34E-10	1.94E-09	3.42E-08	3.42E-08	1.91E-08	8.96E-08	2.03E-11	2.95E-10	5.34E-09	5.34E-09	2.94E-09	1.39E-08	1.10E-11	1.60E-10	2.38E-09	2.38E-09	1.18E-09	6.10E-09
2748	257830.4	4086245	1.31E-10	1.90E-09	3.36E-08	3.36E-08	1.87E-08	8.79E-08	2.00E-11	2.90E-10	5.24E-09	5.24E-09	2.88E-09	1.37E-08	1.08E-11	1.57E-10	2.33E-09	2.33E-09	1.15E-09	5.99E-09
2749	257854.7	4086244	1.29E-10	1.87E-09	3.30E-08	3.30E-08	1.84E-08	8.64E-08	1.96E-11	2.85E-10	5.15E-09	5.15E-09	2.83E-09	1.34E-08	1.06E-11	1.54E-10	2.29E-09	2.29E-09	1.13E-09	5.88E-09
2750	257878.9	4086243	1.27E-10	1.83E-09	3.24E-08	3.24E-08	1.81E-08	8.48E-08	1.92E-11	2.79E-10	5.06E-09	5.06E-09	2.78E-09	1.32E-08	1.04E-11	1.51E-10	2.25E-09	2.25E-09	1.11E-09	5.77E-09
2751	257903.2	4086242	1.24E-10	1.80E-09	3.18E-08	3.18E-08	1.77E-08	8.32E-08	1.89E-11	2.74E-10	4.96E-09	4.96E-09	2.73E-09	1.29E-08	1.03E-11	1.48E-10	2.21E-09	2.21E-09	1.09E-09	5.67E-09
2752	257927.5	4086241	1.22E-10	1.77E-09	3.12E-08	3.12E-08	1.74E-08	8.18E-08	1.86E-11	2.69E-10	4.88E-09	4.88E-09	2.68E-09	1.27E-08	1.01E-11	1.46E-10	2.17E-09	2.17E-09	1.07E-09	5.57E-09
2753	257951.8	4086239	1.20E-10	1.74E-09	3.07E-08	3.07E-08	1.71E-08	8.03E-08	1.82E-11	2.65E-10	4.79E-09	4.79E-09	2.63E-09	1.25E-08	9.90E-12	1.43E-10	2.13E-09	2.13E-09	1.06E-09	5.47E-09
2754	257976.1	4086238	1.18E-10	1.71E-09	3.01E-08	3.01E-08	1.68E-08	7.89E-08	1.79E-11	2.60E-10	4.71E-09	4.71E-09	2.59E-09	1.23E-08	9.73E-12	1.41E-10	2.09E-09	2.09E-09	1.04E-09	5.38E-09
2755	258000.3	4086237	1.16E-10	1.68E-09	2.96E-08	2.96E-08	1.65E-08	7.75E-08	1.76E-11	2.55E-10	4.62E-09	4.62E-09	2.54E-09	1.21E-08	9.56E-12	1.38E-10	2.06E-09	2.06E-09	1.02E-09	5.28E-09
2756	258024.6	4086236	1.14E-10	1.65E-09	2.91E-08	2.91E-08	1.62E-08	7.61E-08	1.73E-11	2.51E-10	4.54E-09	4.54E-09	2.50E-09	1.18E-08	9.38E-12	1.36E-10	2.02E-09	2.02E-09	9.99E-10	5.18E-09
2757	258048.9	4086235	1.12E-10	1.62E-09	2.85E-08	2.85E-08	1.59E-08	7.47E-08	1.70E-11	2.46E-10	4.45E-09	4.45E-09	2.45E-09	1.16E-08	9.21E-12	1.33E-10	1.98E-09	1.98E-09	9.81E-10	5.09E-09
2758	258073.2	4086234	1.10E-10	1.58E-09	2.80E-08	2.80E-08	1.56E-08	7.33E-08	1.66E-11	2.41E-10	4.37E-09	4.37E-09	2.40E-09	1.14E-08	9.03E-12	1.31E-10	1.94E-09	1.94E-09	9.62E-10	4.99E-09
2759	258097.5	4086233	1.07E-10	1.55E-09	2.74E-08	2.74E-08	1.53E-08	7.19E-08	1.63E-11	2.37E-10	4.29E-09	4.29E-09	2.36E-09	1.12E-08	8.86E-12	1.28E-10	1.91E-09	1.91E-09	9.44E-10	4.89E-09
2760	258121.8	4086232	1.06E-10	1.53E-09	2.70E-08	2.70E-08	1.50E-08	7.06E-08	1.60E-11	2.33E-10	4.21E-09	4.21E-09	2.32E-09	1.10E-08	8.71E-12	1.26E-10	1.87E-09	1.87E-09	9.28E-10	4.81E-09
2761	258146	4086231	1.04E-10	1.50E-09	2.65E-08	2.65E-08	1.48E-08	6.93E-08	1.57E-11	2.28E-10	4.13E-09	4.13E-09	2.27E-09	1.08E-08	8.54E-12	1.24E-10	1.84E-09	1.84E-09	9.10E-10	4.72E-09
2762	258170.3	4086230	1.02E-10	1.47E-09	2.59E-08	2.59E-08	1.45E-08	6.79E-08	1.54E-11	2.24E-10	4.05E-09	4.05E-09	2.23E-09	1.06E-08	8.37E-12	1.21E-10	1.80E-09	1.80E-09	8.91E-10	4.62E-09
2763	258194.6	4086229	9.94E-11	1.44E-09	2.54E-08	2.54E-08	1.42E-08	6.65E-08	1.51E-11	2.19E-10	3.96E-09	3.96E-09	2.18E-09	1.03E-08	8.19E-12	1.18E-10	1.76E-09	1.76E-09	8.73E-10	4.53E-09
2764	258218.9	4086228	9.73E-11	1.41E-09	2.48E-08	2.48E-08	1.39E-08	6.51E-08	1.48E-11	2.14E-10	3.88E-09	3.88E-09	2.13E-09	1.01E-08	8.02E-12	1.16E-10	1.73E-09	1.73E-09	8.54E-10	4.43E-09
2765	258243.2	4086227	9.52E-11	1.38E-09	2.43E-08	2.43E-08	1.36E-08	6.36E-08	1.44E-11	2.10E-10	3.80E-09	3.80E-09	2.09E-09	9.90E-09	7.84E-12	1.13E-10	1.69E-09	1.69E-09	8.36E-10	4.33E-09
2766	258267.4	4086225	9.30E-11	1.35E-09	2.38E-08	2.38E-08	1.32E-08	6.22E-08	1.41E-11	2.05E-10	3.71E-09	3.71E-09	2.04E-09	9.68E-09	7.67E-12	1.11E-10	1.65E-09	1.65E-09	8.17E-10	4.24E-09
2767	258291.7	4086224	9.09E-11	1.31E-09	2.32E-08	2.32E-08	1.29E-08	6.08E-08	1.38E-11	2.00E-10	3.62E-09	3.62E-09	1.99E-09	9.45E-09	7.49E-12	1.08E-10	1.61E-09	1.61E-09	7.98E-10	4.14E-09
2768	258316	4086223	8.87E-11	1.28E-09	2.26E-08	2.26E-08	1.26E-08	5.93E-08	1.35E-11	1.95E-10	3.54E-09	3.54E-09	1.94E-09	9.22E-09	7.31E-12	1.06E-10	1.57E-09	1.57E-09	7.79E-10	4.04E-09
2769	258340.3	4086222	8.65E-11	1.25E-09	2.21E-08	2.21E-08	1.23E-08	5.78E-08	1.31E-11	1.91E-10	3.45E-09	3.45E-09	1.90E-09	9.00E-09	7.13E-12	1.03E-10	1.53E-09	1.53E-09	7.59E-10	3.94E-09
2770	258364.6	4086221	8.43E-11	1.22E-09	2.15E-08	2.15E-08	1.20E-08	5.64E-08	1.28E-11	1.86E-10	3.36E-09	3.36E-09	1.85E-09	8.77E-09	6.95E-12	1.00E-10	1.50E-09	1.50E-09	7.40E-10	3.84E-09
2771	258388.9	4086220	8.22E-11	1.19E-09	2.10E-08	2.10E-08	1.17E-08	5.49E-08	1.25E-11	1.81E-10	3.28E-09	3.28E-09	1.80E-09	8.55E-09	6.77E-12	9.79E-11	1.46E-09	1.46E-09	7.21E-10	3.74E-09
2772	258413.1	4086219	8.00E-11	1.16E-09	2.04E-08	2.04E-08	1.14E-08	5.35E-08	1.21E-11	1.76E-10	3.19E-09	3.19E-09	1.75E-09	8.32E-09	6.59E-12	9.54E-11	1.42E-09	1.42E-09	7.03E-10	3.64E-09
2773	257598.3	4086446	1.18E-10	1.71E-09	3.01E-08	3.01E-08	1.68E-08	7.89E-08	1.79E-11	2.60E-10	4.70E-09	4.70E-09	2.59E-09	1.23E-08	9.72E-12	1.41E-10	2.09E-09	2.09E-09	1.04E-09	5.37E-09
2774	257576	4086438	1.21E-10	1.74E-09	3.08E-08	3.08E-08	1.72E-08	8.06E-08	1.83E-11	2.66E-10	4.81E-09	4.81E-09	2.64E-09	1.25E-08	9.94E-12	1.44E-10	2.14E-09	2.14E-09	1.06E-09	5.49E-09
2775	257553.6	4086430	1.23E-10	1.78E-09	3.15E-08	3.15E-08	1.75E-08	8.24E-08	1.87E-11	2.71E-10	4.91E-09	4.91E-09	2.70E-09	1.28E-08	1.02E-11	1.47E-10	2.19E-09	2.19E-09	1.08E-09	5.61E-09
2776	257531.3	4086422	1.26E-10	1.82E-09	3.21E-08	3.21E-08	1.79E-08	8.40E-08	1.91E-11	2.77E-10	5.01E-09	5.01E-09	2.76E-09	1.31E-08	1.04E-11	1.50E-10	2.23E-09	2.23E-09	1.10E-09	5.72E-09
2777	257508.9	4086414	1.28E-10	1.85E-09	3.27E-08	3.27E-08	1.82E-08	8.57E-08	1.94E-11	2.82E-10	5.11E-09	5.11E-09	2.81E-09	1.33E-08	1.06E-11	1.53E-10	2.27E-09	2.27E-09	1.13E-09	5.83E-09
2778	257486.6	4086405	1.30E-10	1.89E-09	3.33E-08	3.33E-08	1.86E-08	8.72E-08	1.98E-11	2.87E-10	5.20E-09	5.20E-09	2.86E-09	1.36E-08	1.08E-11	1.56E-10	2.31E-09	2.31E-09	1.15E-09	5.94E-09
2779	257464.2	4086397	1.33E-10	1.92E-09	3.39E-08	3.39E-08	1.89E-08	8.87E-08	2.01E-11	2.92E-10	5.29E-09	5.29E-09	2.91E-09	1.38E-08	1.09E-11	1.58E-10	2.35E-09	2.35E-09	1.17E-09	6.04E-09
2780	257441.9	4086389	1.35E-10	1.95E-09	3.44E-08	3.44E-08	1.92E-08	9.01E-08	2.05E-11	2.97E-10	5.38E-09	5.38E-09	2.96E-09	1.40E-08	1.11E-11	1.61E-10	2.39E-09	2.39E-09	1.18E-09	6.14E-09
2781	257419.5	4086381	1.37E-10	1.98E-09	3.49E-08	3.49E-08	1.95E-08	9.15E-08	2.08E-11	3.01E-10	5.46E-09	5.46E-09	3.00E-09	1.42E-08	1.13E-11	1.63E-10	2.43E-09	2.43E-09	1.20E-09	6.23E-09
2782	257397.2	4086373	1.39E-10	2.01E-09	3.54E-08	3.54E-08	1.97E-08	9.27E-08	2.10E-11	3.06E-10	5.53E-09	5.53E-09	3.04E-09	1.44E-08	1.14E-11	1.65E-10	2.46E-09	2.46E-09	1.22E-09	6.31E-09
2783	257374.9	4086365	1.40E-10	2.03E-09	3.59E-08	3.59E-08	2.00E-08	9.39E-08	2.13E-11	3.09E-10	5.60E-09	5.60E-09	3.08E-09	1.46E-08	1.16E-11	1.67E-10	2.49E-09	2.49E-09	1.23E-09	6.39E-09
2784	257352.5	4086356	1.42E-10	2.05E-09	3.63E-08	3.63E-08	2.02E-08	9.49E-08	2.15E-11	3.13E-10	5.66E-09	5.66E-09	3.11E-09	1.48E-08	1.17E-11	1.69E-10	2.52E-09	2.52E-09	1.25E-09	6.47E-09
2785	257330.2	4086348	1.43E-10	2.08E-09	3.66E-08	3.66E-08	2.04E-08	9.59E-08	2.18E-11	3.16E-10	5.72E-09	5.72E-09	3.15E-09	1.49E-08	1.18E-11	1.71E-10	2.55E-09	2.55E-09	1.26E-09	6.53E-09
2786	257307.8	4086340	1.45E-10	2.10E-09	3.70E-08	3.70E-08	2.06E-08	9.69E-08	2.20E-11	3.19E-10	5.78E-09	5.78E-09	3.18E-09	1.51E-08	1.19E-11	1.73E-10	2.57E-09	2.57E-09	1.27E-09	6.60E-09
2787	257285.5	4086332	1.46E-10	2.12E-09	3.74E-08	3.74E-08	2.08E-08	9.78E-08	2.22E-11	3.22E-10	5.83E-09	5.83E-09	3.21E-09	1.52E-08	1.21E-11	1.74E-10	2.60E-09	2.60E-09	1.28E-09	6.66E-09
2788	257263.1	4086324	1.48E-10	2.14E-09	3.77E-08	3.77E-08	2.10E-08	9.87E-08	2.24E-11	3.25E-10	5.89E-09	5.89E-09	3.24E-09	1.54E-08	1.22E-11	1.76E-10	2.62E-09	2.62E-09	1.30E-09	6.72E-09
2789	257240.8	4086316	1.49E-10	2.15E-09	3.80E-08	3.80E-08	2.12E-08	9.96E-08	2.26E-11	3.28E-10	5.94E-09	5.94E-09	3.27E-09	1.55E-08	1.23E-11	1.78E-10	2.64E-09	2.64E-09	1.31E-09	6.78E-09
2790	257218.4	4086307	1.50E-10	2.17E-09	3.84E-08	3.84E-08	2.14E-08	1.01E-07	2.28E-11	3.31E-10	5.99E-09	5.99E-09	3.30E-09	1.56E-08	1.24E-11	1.79E-10	2.67E-09	2.67E-09	1.32E-09	6.85E-09
2791	257196.1	4086299	1.52E-10	2.19E-09	3.87E-08	3.87E-08	2.16E-08	1.01E-07	2.30E-11	3.34E-10	6.05E-09	6.05E-09	3.33E-09	1.58E-08	1.25E-11	1.81E-10	2.69E-09	2.69E-09	1.33E-09	6.91E-09
2792	257173.7	4086291	1.53E-10	2.21E-09	3.91E-08	3.91E-08	2.18E-08	1.02E-07	2.32E-11	3.37E-10	6.10E-09	6.10E-09	3.36E-09	1.59E-08	1.26E-11	1.82E-10	2.72E-09	2.72E-09	1.34E-09	6.97E-09
2793	257151.4	4086283	1.55E-10	2.24E-09	3.95E-08	3.95E-08	2.20E-08	1.03E-07	2.35E-11	3.41E-10	6.17E-09	6.17E-09	3.39E-09	1.61E-08	1.28E-11	1.85E-10	2.75E-09	2.75E-09	1.36E-09	7.05E-09
2794	257129	4086275	1.56E-10	2.26E-09	3.99E-08	3.99E-08	2.23E-08	1.05E-07	2.37E-11	3.44E-10	6.23E-09	6.23E-09	3.43E-09	1.63E-08	1.29E-11	1.86E-10	2.77E-09	2.77E-09	1.37E-09	7.12E-09
2795	257106.7	4086267	1.58E-10	2.28E-09	4.02E-08	4.02E-08	2.24E-08	1.05E-07	2.39E-11	3.47E-10	6.28E-09	6.28E-09	3.45E-09	1.64E-08	1.30E-11	1.88E-10	2.79E-09	2.79E-09	1.38E-09	7.17E-09
2796	257084.3	4086258	1.59E-10	2.29E-09	4.05E-08	4.05E-08	2.26E-08	1.06E-07	2.41E-11	3.49E-10	6.32E-09	6.32E-09	3.48E-09	1.65E-08	1.31E-11	1.89E-10	2.81E-09	2.81E-09	1.39E-09	7.22E-09
2797	257062	4086250	1.59E-10	2.31E-09	4.07E-08	4.07E-08	2.27E-08	1.07E-07	2.42E-11	3.51E-10	6.36E-09	6.36E-09	3.50E-09	1.66E-08	1.31E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.26E-09
2798	257039.6	4086242	1.60E-10	2.32E-09	4.09E-08	4.09E-08	2.28E-08	1.07E-07	2.43E-11	3.53E-10	6.38E-09	6.38E-09	3.51E-09	1.67E-08	1.32E-11	1.91E-10	2.84E-09	2.84E-09	1.41E-09	7.29E-09
2799	257017.3	4086234	1.60E-10	2.32E-09	4.10E-08	4.10E-08	2.29E-08	1.07E-07	2.44E-11	3.54E-10	6.40E-09	6.40E-09	3.52E-09	1.67E-08	1.32E-11	1.91E-10	2.85E-09	2.85E-09	1.41E-09	7.31E-09
2800	256994.9	4086226	1.61E-10	2.32E-09	4.10E-08	4.10E-08	2.29E-08	1.07E-07	2.44E-11	3.54E-10	6.41E-09	6.41E-09	3.52E-09	1.67E-08	1.32E-11	1.92E-10	2.85E-09	2.85E-09	1.41E-09	7.32E-09
2801	256972.6	4086218	1.60E-10	2.32E-09	4.10E-08	4.10E-08	2.28E-08	1.07E-07	2.43E-11	3.53E-10	6.39E-09	6.39E-09	3.52E-09	1.67E-08	1.32E-11	1.91E-10	2.85E-09	2.85E-09	1.41E-09	7.30E-09
2802	256950.2	4086209	1.60E-10	2.31E-09	4.09E-08	4.09E-08	2.28E-08	1.07E-07	2.43E-11	3.53E-10	6.38E-09	6.38E-09	3.51E-09	1.66E-08	1.32E-11	1.91E-10	2.84E-09	2.84E-09	1.41E-09	7.29E-09
2803	256927.9	4086201	1.60E-10	2.31E-09	4.08E-08	4.08E-08	2.28E-08	1.07E-07	2.42E-11	3.52E-10	6.37E-09	6.37E-09	3.50E-09	1.66E-08	1.32E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.28E-09
2804	256905.5	4086193	1.60E-10	2.31E-09	4.08E-08	4.08E-08	2.27E-08	1.07E-07	2.42E-11	3.52E-10	6.36E-09	6.36E-09	3.50E-09	1.66E-08	1.32E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.27E-09
2805	256883.2	4086185	1.59E-10	2.31E-09	4.07E-08	4.07E-08	2.27E-08	1.07E-07	2.42E-11	3.51E-10	6.36E-09	6.36E-09	3.50E-09	1.66E-08	1.31E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.26E-09
2806	256860.8	4086177	1.59E-10	2.30E-09	4.07E-08	4.07E-08	2.27E-08	1.07E-07	2.42E-11	3.51E-10	6.35E-09	6.35E-09	3.49E-09	1.66E-08	1.31E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.26E-09
2807	256838.5	4086169	1.59E-10	2.30E-09	4.07E-08	4.07E-08	2.27E-08	1.07E-07	2.42E-11	3.51E-10	6.35E-09	6.35E-09	3.49E-09	1.66E-08	1.31E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.26E-09
2808	256816.1	4086160	1.59E-10	2.31E-09	4.07E-08	4.07E-08	2.27E-08	1.07E-07	2.42E-11	3.51E-10	6.36E-09	6.36E-09	3.49E-09	1.66E-08	1.31E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.26E-09
2809	256793.8	4086152	1.59E-10	2.31E-09	4.07E-08	4.07E-08	2.27E-08	1.07E-07	2.42E-11	3.51E-10	6.36E-09	6.36E-09	3.50E-09	1.66E-08	1.31E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.26E-09
2810	256771.4	4086144	1.60E-10	2.31E-09	4.08E-08	4.08E-08	2.27E-08	1.07E-07	2.42E-11	3.52E-10	6.36E-09	6.36E-09	3.50E-09	1.66E-08	1.32E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.27E-09
2811	256749.1	4086136	1.60E-10	2.31E-09	4.08E-08	4.08E-08	2.27E-08	1.07E-07	2.42E-11	3.52E-10	6.37E-09	6.37E-09	3.50E-09	1.66E-08	1.32E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.27E-09
2812	256726.7	4086128	1.60E-10	2.31E-09	4.08E-08	4.08E-08	2.28E-08	1.07E-07	2.42E-11	3.52E-10	6.37E-09	6.37E-09	3.50E-09	1.66E-08	1.32E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.28E-09
2813	256704.4	4086120	1.60E-10	2.31E-09	4.08E-08	4.08E-08	2.28E-08	1.07E-07	2.43E-11	3.52E-10	6.37E-09	6.37E-09	3.50E-09	1.66E-08	1.32E-11	1.91E-10	2.84E-09	2.84E-09	1.40E-09	7.28E-09
2814	256672.1	4086090	1.62E-10	2.35E-09	4.15E-08	4.15E-08	2.31E-08	1.09E-07	2.47E-11	3.58E-10	6.48E-09	6.48E-09	3.56E-09	1.69E-08	1.34E-11	1.94E-10	2.88E-09	2.88E-09	1.43E-09	7.40E-09
2815	256662.1	4086068	1.65E-10	2.39E-09	4.22E-08	4.22E-08	2.35E-08	1.10E-07	2.51E-11	3.64E-10	6.58E-09	6.58E-09	3.62E-09	1.72E-08	1.36E-11	1.97E-10	2.93E-09	2.93E-09	1.45E-09	7.52E-09
2816	256652.2	4086047	1.68E-10	2.43E-09	4.29E-08	4.29E-08	2.39E-08	1.12E-07	2.55E-11	3.70E-10	6.69E-09	6.69E-09	3.68E-09	1.75E-08	1.38E-11	2.00E-10	2.98E-09	2.98E-09	1.47E-09	7.64E-09
2817	256642.2	4086025	1.70E-10	2.46E-09	4.34E-08	4.34E-08	2.42E-08	1.14E-07	2.58E-11	3.75E-10	6.78E-09	6.78E-09	3.73E-09	1.77E-08	1.40E-11	2.03E-10	3.02E-09	3.02E-09	1.49E-09	7.74E-09
2818	256632.3	4086003	1.72E-10	2.49E-09	4.39E-08	4.39E-08	2.45E-08	1.15E-07	2.61E-11	3.79E-10	6.85E-09	6.85E-09	3.77E-09	1.79E-08	1.42E-11	2.05E-10	3.05E-09	3.05E-09	1.51E-09	7.83E-09
2819	256622.3	4085982	1.73E-10	2.51E-09	4.43E-08	4.43E-08	2.47E-08	1.16E-07	2.63E-11	3.82E-10	6.92E-09	6.92E-09	3.80E-09	1.80E-08	1.43E-11	2.07E-10	3.08E-09	3.08E-09	1.52E-09	7.90E-09
2820	256612.4	4085960	1.74E-10	2.52E-09	4.46E-08	4.46E-08	2.48E-08	1.17E-07	2.65E-11	3.84E-10	6.96E-09	6.96E-09	3.82E-09	1.82E-08	1.44E-11	2.08E-10	3.10E-09	3.10E-09	1.53E-09	7.95E-09
2821	256602.4	4085939	1.75E-10	2.53E-09	4.47E-08	4.47E-08	2.49E-08	1.17E-07	2.66E-11	3.86E-10	6.98E-09	6.98E-09	3.84E-09	1.82E-08	1.44E-11	2.09E-10	3.10E-09	3.10E-09	1.54E-09	7.97E-09
2822	256592.5	4085917	1.75E-10	2.53E-09	4.47E-08	4.47E-08	2.49E-08	1.17E-07	2.65E-11	3.85E-10	6.97E-09	6.97E-09	3.83E-09	1.82E-08	1.44E-11	2.09E-10	3.10E-09	3.10E-09	1.54E-09	7.96E-09
2823	256582.5	4085895	1.74E-10	2.52E-09	4.45E-08	4.45E-08	2.48E-08	1.16E-07	2.64E-11	3.84E-10	6.94E-09	6.94E-09	3.82E-09	1.81E-08	1.44E-11	2.08E-10	3.09E-09	3.09E-09	1.53E-09	7.93E-09
2824	256572.6	4085874	1.73E-10	2.50E-09	4.41E-08	4.41E-08	2.46E-08	1.15E-07	2.62E-11	3.80E-10	6.88E-09	6.88E-09	3.78E-09	1.80E-08	1.42E-11	2.06E-10	3.06E-09	3.06E-09	1.52E-09	7.86E-09
2825	256562.6	4085852	1.70E-10	2.47E-09	4.35E-08	4.35E-08	2.43E-08	1.14E-07	2.59E-11	3.76E-10	6.80E-09	6.80E-09	3.74E-09	1.77E-08	1.41E-11	2.03E-10	3.02E-09	3.02E-09	1.50E-09	7.76E-09
2826	256552.7	4085830	1.68E-10	2.42E-09	4.28E-08	4.28E-08	2.39E-08	1.12E-07	2.54E-11	3.69E-10	6.68E-09	6.68E-09	3.67E-09	1.74E-08	1.38E-11	2.00E-10	2.97E-09	2.97E-09	1.47E-09	7.63E-09
2827	256542.7	4085809	1.64E-10	2.37E-09	4.19E-08	4.19E-08	2.33E-08	1.10E-07	2.49E-11	3.61E-10	6.54E-09	6.54E-09	3.59E-09	1.71E-08	1.35E-11	1.95E-10	2.91E-09	2.91E-09	1.44E-09	7.47E-09
2828	256532.8	4085787	1.60E-10	2.31E-09	4.08E-08	4.08E-08	2.27E-08	1.07E-07	2.42E-11	3.52E-10	6.37E-09	6.37E-09	3.50E-09	1.66E-08	1.32E-11	1.90E-10	2.83E-09	2.83E-09	1.40E-09	7.27E-09

2829	256522.8	4085766	1.55E-10	2.24E-09	3.95E-08	3.95E-08	2.20E-08	1.03E-07	2.35E-11	3.41E-10	6.17E-09	6.17E-09	3.39E-09	1.61E-08	1.27E-11	1.84E-10	2.74E-09	2.74E-09	1.36E-09	7.04E-09
2830	256512.9	4085744	1.49E-10	2.16E-09	3.81E-08	3.81E-08	2.12E-08	9.97E-08	2.26E-11	3.28E-10	5.95E-09	5.95E-09	3.27E-09	1.55E-08	1.23E-11	1.78E-10	2.65E-09	2.65E-09	1.31E-09	6.79E-09
2831	256502.9	4085722	1.43E-10	2.07E-09	3.65E-08	3.65E-08	2.04E-08	9.56E-08	2.17E-11	3.15E-10	5.70E-09	5.70E-09	3.13E-09	1.49E-08	1.18E-11	1.70E-10	2.54E-09	2.54E-09	1.26E-09	6.51E-09
2832	256493	4085701	1.37E-10	1.98E-09	3.49E-08	3.49E-08	1.95E-08	9.14E-08	2.07E-11	3.01E-10	5.45E-09	5.45E-09	3.00E-09	1.42E-08	1.13E-11	1.63E-10	2.42E-09	2.42E-09	1.20E-09	6.22E-09
2833	256483	4085679	1.30E-10	1.88E-09	3.31E-08	3.31E-08	1.85E-08	8.68E-08	1.97E-11	2.86E-10	5.18E-09	5.18E-09	2.85E-09	1.35E-08	1.07E-11	1.55E-10	2.30E-09	2.30E-09	1.14E-09	5.91E-09
2834	256473	4085658	1.23E-10	1.78E-09	3.14E-08	3.14E-08	1.75E-08	8.21E-08	1.86E-11	2.70E-10	4.90E-09	4.90E-09	2.69E-09	1.28E-08	1.01E-11	1.46E-10	2.18E-09	2.18E-09	1.08E-09	5.59E-09
2835	256463.1	4085636	1.16E-10	1.67E-09	2.96E-08	2.96E-08	1.65E-08	7.74E-08	1.76E-11	2.55E-10	4.62E-09	4.62E-09	2.54E-09	1.20E-08	9.54E-12	1.38E-10	2.05E-09	2.05E-09	1.02E-09	5.27E-09
2836	256453.1	4085614	1.09E-10	1.58E-09	2.78E-08	2.78E-08	1.55E-08	7.28E-08	1.65E-11	2.40E-10	4.34E-09	4.34E-09	2.39E-09	1.13E-08	8.98E-12	1.30E-10	1.93E-09	1.93E-09	9.56E-10	4.96E-09
2837	256443.2	4085593	1.02E-10	1.48E-09	2.62E-08	2.62E-08	1.46E-08	6.85E-08	1.55E-11	2.26E-10	4.09E-09	4.09E-09	2.25E-09	1.07E-08	8.44E-12	1.22E-10	1.82E-09	1.82E-09	9.00E-10	4.67E-09
2838	256433.2	4085571	9.65E-11	1.40E-09	2.46E-08	2.46E-08	1.37E-08	6.45E-08	1.46E-11	2.13E-10	3.85E-09	3.85E-09	2.12E-09	1.00E-08	7.95E-12	1.15E-10	1.71E-09	1.71E-09	8.47E-10	4.39E-09
2839	256423.3	4085550	9.11E-11	1.32E-09	2.33E-08	2.33E-08	1.30E-08	6.09E-08	1.38E-11	2.01E-10	3.63E-09	3.63E-09	2.00E-09	9.48E-09	7.51E-12	1.09E-10	1.62E-09	1.62E-09	8.00E-10	4.15E-09
2840	256413.3	4085528	8.64E-11	1.25E-09	2.21E-08	2.21E-08	1.23E-08	5.78E-08	1.31E-11	1.90E-10	3.45E-09	3.45E-09	1.90E-09	8.99E-09	7.12E-12	1.03E-10	1.53E-09	1.53E-09	7.59E-10	3.94E-09
2841	256403.4	4085506	8.24E-11	1.19E-09	2.10E-08	2.10E-08	1.17E-08	5.51E-08	1.25E-11	1.82E-10	3.29E-09	3.29E-09	1.81E-09	8.57E-09	6.79E-12	9.82E-11	1.46E-09	1.46E-09	7.24E-10	3.75E-09
2842	256393.4	4085485	7.90E-11	1.14E-09	2.02E-08	2.02E-08	1.12E-08	5.28E-08	1.20E-11	1.74E-10	3.15E-09	3.15E-09	1.73E-09	8.22E-09	6.51E-12	9.42E-11	1.40E-09	1.40E-09	6.94E-10	3.60E-09
2843	256383.5	4085463	7.61E-11	1.10E-09	1.94E-08	1.94E-08	1.08E-08	5.09E-08	1.16E-11	1.68E-10	3.04E-09	3.04E-09	1.67E-09	7.92E-09	6.28E-12	9.08E-11	1.35E-09	1.35E-09	6.69E-10	3.47E-09
2844	256373.5	4085441	7.37E-11	1.07E-09	1.88E-08	1.88E-08	1.05E-08	4.93E-08	1.12E-11	1.62E-10	2.94E-09	2.94E-09	1.62E-09	7.67E-09	6.08E-12	8.79E-11	1.31E-09	1.31E-09	6.48E-10	3.36E-09
2845	256363.6	4085420	7.17E-11	1.04E-09	1.83E-08	1.83E-08	1.02E-08	4.79E-08	1.09E-11	1.58E-10	2.86E-09	2.86E-09	1.57E-09	7.46E-09	5.91E-12	8.55E-11	1.27E-09	1.27E-09	6.30E-10	3.27E-09
2846	256353.6	4085398	6.99E-11	1.01E-09	1.79E-08	1.79E-08	9.95E-09	4.67E-08	1.06E-11	1.54E-10	2.79E-09	2.79E-09	1.53E-09	7.27E-09	5.76E-12	8.33E-11	1.24E-09	1.24E-09	6.14E-10	3.18E-09
2847	256343.7	4085377	6.83E-11	9.87E-10	1.74E-08	1.74E-08	9.72E-09	4.56E-08	1.04E-11	1.50E-10	2.72E-09	2.72E-09	1.50E-09	7.10E-09	5.63E-12	8.14E-11	1.21E-09	1.21E-09	5.99E-10	3.11E-09
2848	256333.7	4085355	6.67E-11	9.65E-10	1.70E-08	1.70E-08	9.50E-09	4.46E-08	1.01E-11	1.47E-10	2.66E-09	2.66E-09	1.46E-09	6.94E-09	5.50E-12	7.95E-11	1.18E-09	1.18E-09	5.86E-10	3.04E-09
2849	256323.8	4085333	6.52E-11	9.44E-10	1.67E-08	1.67E-08	9.29E-09	4.36E-08	9.90E-12	1.44E-10	2.60E-09	2.60E-09	1.43E-09	6.79E-09	5.38E-12	7.78E-11	1.16E-09	1.16E-09	5.73E-10	2.97E-09
2850	256313.8	4085312	6.38E-11	9.23E-10	1.63E-08	1.63E-08	9.09E-09	4.27E-08	9.68E-12	1.41E-10	2.54E-09	2.54E-09	1.40E-09	6.64E-09	5.26E-12	7.61E-11	1.13E-09	1.13E-09	5.60E-10	2.91E-09
2851	256303.9	4085290	6.24E-11	9.03E-10	1.59E-08	1.59E-08	8.89E-09	4.17E-08	9.48E-12	1.38E-10	2.49E-09	2.49E-09	1.37E-09	6.50E-09	5.15E-12	7.44E-11	1.11E-09	1.11E-09	5.48E-10	2.84E-09
2852	256293.9	4085269	6.11E-11	8.84E-10	1.56E-08	1.56E-08	8.71E-09	4.09E-08	9.28E-12	1.35E-10	2.44E-09	2.44E-09	1.34E-09	6.36E-09	5.04E-12	7.29E-11	1.08E-09	1.08E-09	5.37E-10	2.78E-09
2853	256284	4085247	5.99E-11	8.67E-10	1.53E-08	1.53E-08	8.54E-09	4.01E-08	9.10E-12	1.32E-10	2.39E-09	2.39E-09	1.31E-09	6.24E-09	4.94E-12	7.15E-11	1.06E-09	1.06E-09	5.26E-10	2.73E-09
2854	256274	4085225	5.89E-11	8.52E-10	1.50E-08	1.50E-08	8.39E-09	3.94E-08	8.94E-12	1.30E-10	2.35E-09	2.35E-09	1.29E-09	6.13E-09	4.85E-12	7.02E-11	1.04E-09	1.04E-09	5.17E-10	2.68E-09
2855	257620.7	4086454	1.15E-10	1.67E-09	2.94E-08	2.94E-08	1.64E-08	7.71E-08	1.75E-11	2.54E-10	4.60E-09	4.60E-09	2.53E-09	1.20E-08	9.50E-12	1.37E-10	2.05E-09	2.05E-09	1.01E-09	5.25E-09
2856	257645	4086453	1.14E-10	1.65E-09	2.91E-08	2.91E-08	1.62E-08	7.61E-08	1.73E-11	2.51E-10	4.54E-09	4.54E-09	2.50E-09	1.18E-08	9.38E-12	1.36E-10	2.02E-09	2.02E-09	1.00E-09	5.18E-09
2857	257669.2	4086452	1.12E-10	1.63E-09	2.87E-08	2.87E-08	1.60E-08	7.51E-08	1.71E-11	2.48E-10	4.48E-09	4.48E-09	2.46E-09	1.17E-08	9.26E-12	1.34E-10	1.99E-09	1.99E-09	9.87E-10	5.12E-09
2858	257693.5	4086451	1.11E-10	1.60E-09	2.83E-08	2.83E-08	1.58E-08	7.41E-08	1.68E-11	2.44E-10	4.42E-09	4.42E-09	2.43E-09	1.15E-08	9.14E-12	1.32E-10	1.97E-09	1.97E-09	9.74E-10	5.05E-09
2859	257717.8	4086450	1.09E-10	1.58E-09	2.79E-08	2.79E-08	1.56E-08	7.31E-08	1.66E-11	2.41E-10	4.36E-09	4.36E-09	2.40E-09	1.14E-08	9.01E-12	1.30E-10	1.94E-09	1.94E-09	9.60E-10	4.98E-09
2860	257742.1	4086449	1.08E-10	1.56E-09	2.75E-08	2.75E-08	1.54E-08	7.21E-08	1.64E-11	2.38E-10	4.30E-09	4.30E-09	2.36E-09	1.12E-08	8.89E-12	1.29E-10	1.91E-09	1.91E-09	9.47E-10	4.91E-09
2861	257766.4	4086448	1.07E-10	1.54E-09	2.72E-08	2.72E-08	1.52E-08	7.12E-08	1.62E-11	2.35E-10	4.25E-09	4.25E-09	2.34E-09	1.11E-08	8.78E-12	1.27E-10	1.89E-09	1.89E-09	9.36E-10	4.85E-09
2862	257790.7	4086447	1.05E-10	1.52E-09	2.69E-08	2.69E-08	1.50E-08	7.04E-08	1.60E-11	2.32E-10	4.20E-09	4.20E-09	2.31E-09	1.10E-08	8.68E-12	1.26E-10	1.87E-09	1.87E-09	9.25E-10	4.79E-09
2863	257814.9	4086446	1.04E-10	1.50E-09	2.66E-08	2.66E-08	1.48E-08	6.95E-08	1.58E-11	2.29E-10	4.15E-09	4.15E-09	2.28E-09	1.08E-08	8.57E-12	1.24E-10	1.85E-09	1.85E-09	9.13E-10	4.74E-09
2864	257839.2	4086445	1.03E-10	1.49E-09	2.62E-08	2.62E-08	1.46E-08	6.87E-08	1.56E-11	2.26E-10	4.10E-09	4.10E-09	2.25E-09	1.07E-08	8.47E-12	1.22E-10	1.82E-09	1.82E-09	9.02E-10	4.68E-09
2865	257863.5	4086444	1.01E-10	1.47E-09	2.59E-08	2.59E-08	1.44E-08	6.78E-08	1.54E-11	2.23E-10	4.04E-09	4.04E-09	2.22E-09	1.05E-08	8.36E-12	1.21E-10	1.80E-09	1.80E-09	8.90E-10	4.62E-09
2866	257887.8	4086443	1.00E-10	1.45E-09	2.55E-08	2.55E-08	1.42E-08	6.69E-08	1.52E-11	2.20E-10	3.99E-09	3.99E-09	2.19E-09	1.04E-08	8.24E-12	1.19E-10	1.77E-09	1.77E-09	8.78E-10	4.55E-09
2867	257912.1	4086441	9.85E-11	1.43E-09	2.52E-08	2.52E-08	1.40E-08	6.59E-08	1.50E-11	2.17E-10	3.93E-09	3.93E-09	2.16E-09	1.03E-08	8.12E-12	1.17E-10	1.75E-09	1.75E-09	8.65E-10	4.49E-09
2868	257936.3	4086440	9.69E-11	1.40E-09	2.48E-08	2.48E-08	1.38E-08	6.48E-08	1.47E-11	2.14E-10	3.87E-09	3.87E-09	2.13E-09	1.01E-08	7.99E-12	1.16E-10	1.72E-09	1.72E-09	8.51E-10	4.42E-09
2869	257960.6	4086439	9.53E-11	1.38E-09	2.43E-08	2.43E-08	1.36E-08	6.37E-08	1.45E-11	2.10E-10	3.80E-09	3.80E-09	2.09E-09	9.92E-09	7.86E-12	1.14E-10	1.69E-09	1.69E-09	8.37E-10	4.34E-09
2870	257984.9	4086438	9.36E-11	1.35E-09	2.39E-08	2.39E-08	1.33E-08	6.26E-08	1.42E-11	2.06E-10	3.73E-09	3.73E-09	2.05E-09	9.73E-09	7.71E-12	1.12E-10	1.66E-09	1.66E-09	8.22E-10	4.26E-09
2871	258009.2	4086437	9.17E-11	1.33E-09	2.34E-08	2.34E-08	1.31E-08	6.13E-08	1.39E-11	2.02E-10	3.66E-09	3.66E-09	2.01E-09	9.54E-09	7.56E-12	1.09E-10	1.63E-09	1.63E-09	8.06E-10	4.18E-09
2872	258033.5	4086436	8.99E-11	1.30E-09	2.30E-08	2.30E-08	1.28E-08	6.01E-08	1.36E-11	1.98E-10	3.58E-09	3.58E-09	1.97E-09	9.35E-09	7.41E-12	1.07E-10	1.59E-09	1.59E-09	7.89E-10	4.09E-09
2873	258057.8	4086435	8.80E-11	1.27E-09	2.25E-08	2.25E-08	1.25E-08	5.89E-08	1.34E-11	1.94E-10	3.51E-09	3.51E-09	1.93E-09	9.16E-09	7.26E-12	1.05E-10	1.56E-09	1.56E-09	7.73E-10	4.01E-09
2874	258082	4086434	8.62E-11	1.25E-09	2.20E-08	2.20E-08	1.23E-08	5.76E-08	1.31E-11	1.90E-10	3.44E-09	3.44E-09	1.89E-09	8.97E-09	7.10E-12	1.03E-10	1.53E-09	1.53E-09	7.57E-10	3.92E-09
2875	258106.3	4086433	8.44E-11	1.22E-09	2.15E-08	2.15E-08	1.20E-08	5.64E-08	1.28E-11	1.86E-10	3.36E-09	3.36E-09	1.85E-09	8.78E-09	6.95E-12	1.01E-10	1.50E-09	1.50E-09	7.41E-10	3.84E-09
2876	258130.6	4086432	8.27E-11	1.20E-09	2.11E-08	2.11E-08	1.18E-08	5.53E-08	1.25E-11	1.82E-10	3.30E-09	3.30E-09	1.81E-09	8.60E-09	6.82E-12	9.86E-11	1.47E-09	1.47E-09	7.26E-10	3.77E-09
2877	258154.9	4086431	8.11E-11	1.17E-09	2.07E-08	2.07E-08	1.15E-08	5.42E-08	1.23E-11	1.79E-10	3.23E-09	3.23E-09	1.78E-09	8.44E-09	6.68E-12	9.67E-11	1.44E-09	1.44E-09	7.12E-10	3.69E-09
2878	258179.2	4086430	7.96E-11	1.15E-09	2.03E-08	2.03E-08	1.13E-08	5.32E-08	1.21E-11	1.75E-10	3.17E-09	3.17E-09	1.75E-09	8.28E-09	6.56E-12	9.49E-11	1.41E-09	1.41E-09	6.99E-10	3.63E-09
2879	258203.4	4086429	7.82E-11	1.13E-09	2.00E-08	2.00E-08	1.11E-08	5.23E-08	1.19E-11	1.72E-10	3.12E-09	3.12E-09	1.71E-09	8.14E-09	6.45E-12	9.32E-11	1.39E-09	1.39E-09	6.87E-10	3.56E-09
2880	258227.7	4086427	7.69E-11	1.11E-09	1.96E-08	1.96E-08	1.09E-08	5.14E-08	1.17E-11	1.69E-10	3.07E-09	3.07E-09	1.69E-09	8.00E-09	6.34E-12	9.17E-11	1.36E-09	1.36E-09	6.75E-10	3.50E-09
2881	258252	4086426	7.56E-11	1.09E-09	1.93E-08	1.93E-08	1.08E-08	5.06E-08	1.15E-11	1.67E-10	3.02E-09	3.02E-09	1.66E-09	7.87E-09	6.23E-12	9.01E-11	1.34E-09	1.34E-09	6.64E-10	3.44E-09
2882	258276.3	4086425	7.43E-11	1.07E-09	1.90E-08	1.90E-08	1.06E-08	4.97E-08	1.13E-11	1.64E-10	2.96E-09	2.96E-09	1.63E-09	7.73E-09	6.13E-12	8.86E-11	1.32E-09	1.32E-09	6.53E-10	3.38E-09
2883	258300.6	4086424	7.30E-11	1.06E-09	1.86E-08	1.86E-08	1.04E-08	4.88E-08	1.11E-11	1.61E-10	2.91E-09	2.91E-09	1.60E-09	7.59E-09	6.02E-12	8.70E-11	1.30E-09	1.30E-09	6.41E-10	3.32E-09
2884	258324.9	4086423	7.16E-11	1.04E-09	1.83E-08	1.83E-08	1.02E-08	4.79E-08	1.09E-11	1.58E-10	2.86E-09	2.86E-09	1.57E-09	7.45E-09	5.91E-12	8.54E-11	1.27E-09	1.27E-09	6.29E-10	3.26E-09
2885	258349.1	4086422	7.03E-11	1.02E-09	1.79E-08	1.79E-08	1.00E-08	4.70E-08	1.07E-11	1.55E-10	2.80E-09	2.80E-09	1.54E-09	7.31E-09	5.79E-12	8.38E-11	1.25E-09	1.25E-09	6.17E-10	3.20E-09
2886	258373.4	4086421	6.89E-11	9.96E-10	1.76E-08	1.76E-08	9.81E-09	4.60E-08	1.05E-11	1.52E-10	2.75E-09	2.75E-09	1.51E-09	7.16E-09	5.68E-12	8.21E-11	1.22E-09	1.22E-09	6.05E-10	3.14E-09
2887	258397.7	4086420	6.75E-11	9.76E-10	1.72E-08	1.72E-08	9.61E-09	4.51E-08	1.02E-11	1.49E-10	2.69E-09	2.69E-09	1.48E-09	7.02E-09	5.56E-12	8.04E-11	1.20E-09	1.20E-09	5.92E-10	3.07E-09
2888	258422	4086419	6.61E-11	9.55E-10	1.69E-08	1.69E-08	9.41E-09	4.42E-08	1.00E-11	1.46E-10	2.63E-09	2.63E-09	1.45E-09	6.87E-09	5.45E-12	7.88E-11	1.17E-09	1.17E-09	5.80E-10	3.01E-09
2889	257607	4086646	9.38E-11	1.36E-09	2.40E-08	2.40E-08	1.34E-08	6.28E-08	1.42E-11	2.07E-10	3.74E-09	3.74E-09	2.06E-09	9.76E-09	7.74E-12	1.12E-10	1.67E-09	1.67E-09	8.24E-10	4.27E-09
2890	257584.4	4086638	9.56E-11	1.38E-09	2.44E-08	2.44E-08	1.36E-08	6.39E-08	1.45E-11	2.11E-10	3.81E-09	3.81E-09	2.10E-09	9.95E-09	7.88E-12	1.14E-10	1.70E-09	1.70E-09	8.40E-10	4.35E-09
2891	257561.8	4086629	9.75E-11	1.41E-09	2.49E-08	2.49E-08	1.39E-08	6.52E-08	1.48E-11	2.15E-10	3.89E-09	3.89E-09	2.14E-09	1.01E-08	8.04E-12	1.16E-10	1.73E-09	1.73E-09	8.56E-10	4.44E-09
2892	257539.3	4086621	9.94E-11	1.44E-09	2.54E-08	2.54E-08	1.42E-08	6.65E-08	1.51E-11	2.19E-10	3.96E-09	3.96E-09	2.18E-09	1.03E-08	8.19E-12	1.19E-10	1.76E-09	1.76E-09	8.73E-10	4.53E-09
2893	257516.7	4086613	1.01E-10	1.47E-09	2.59E-08	2.59E-08	1.44E-08	6.78E-08	1.54E-11	2.23E-10	4.04E-09	4.04E-09	2.22E-09	1.05E-08	8.36E-12	1.21E-10	1.80E-09	1.80E-09	8.90E-10	4.62E-09
2894	257494.2	4086605	1.03E-10	1.50E-09	2.64E-08	2.64E-08	1.47E-08	6.91E-08	1.57E-11	2.28E-10	4.12E-09	4.12E-09	2.27E-09	1.08E-08	8.52E-12	1.23E-10	1.83E-09	1.83E-09	9.08E-10	4.71E-09
2895	257471.6	4086596	1.05E-10	1.52E-09	2.69E-08	2.69E-08	1.50E-08	7.05E-08	1.60E-11	2.32E-10	4.20E-09	4.20E-09	2.31E-09	1.10E-08	8.69E-12	1.26E-10	1.87E-09	1.87E-09	9.26E-10	4.80E-09
2896	257449	4086588	1.07E-10	1.55E-09	2.74E-08	2.74E-08	1.53E-08	7.18E-08	1.63E-11	2.37E-10	4.28E-09	4.28E-09	2.35E-09	1.12E-08	8.85E-12	1.28E-10	1.91E-09	1.91E-09	9.43E-10	4.89E-09
2897	257426.5	4086580	1.09E-10	1.58E-09	2.79E-08	2.79E-08	1.56E-08	7.31E-08	1.66E-11	2.41E-10	4.36E-09	4.36E-09	2.40E-09	1.14E-08	9.01E-12	1.30E-10	1.94E-09	1.94E-09	9.60E-10	4.98E-09
2898	257403.9	4086572	1.11E-10	1.61E-09	2.84E-08	2.84E-08	1.58E-08	7.43E-08	1.69E-11	2.45E-10	4.43E-09	4.43E-09	2.44E-09	1.16E-08	9.16E-12	1.32E-10	1.97E-09	1.97E-09	9.76E-10	5.06E-09
2899	257381.3	4086563	1.13E-10	1.63E-09	2.88E-08	2.88E-08	1.61E-08	7.55E-08	1.71E-11	2.49E-10	4.50E-09	4.50E-09	2.47E-09	1.17E-08	9.30E-12	1.35E-10	2.00E-09	2.00E-09	9.91E-10	5.14E-09
2900	257358.8	4086555	1.14E-10	1.65E-09	2.92E-08	2.92E-08	1.63E-08	7.65E-08	1.74E-11	2.52E-10	4.56E-09	4.56E-09	2.51E-09	1.19E-08	9.43E-12	1.36E-10	2.03E-09	2.03E-09	1.00E-09	5.21E-09
2901	257336.2	4086547	1.16E-10	1.68E-09	2.96E-08	2.96E-08	1.65E-08	7.75E-08	1.76E-11	2.55E-10	4.62E-09	4.62E-09	2.54E-09	1.21E-08	9.55E-12	1.38E-10	2.06E-09	2.06E-09	1.02E-09	5.28E-09
2902	257313.6	4086539	1.17E-10	1.70E-09	2.99E-08	2.99E-08	1.67E-08	7.84E-08	1.78E-11	2.58E-10	4.67E-09	4.67E-09	2.57E-09	1.22E-08	9.66E-12	1.40E-10	2.08E-09	2.08E-09	1.03E-09	5.34E-09
2903	257291.1	4086530	1.18E-10	1.71E-09	3.02E-08	3.02E-08	1.69E-08	7.92E-08	1.80E-11	2.61E-10	4.72E-09	4.72E-09	2.60E-09	1.23E-08	9.76E-12	1.41E-10	2.10E-09	2.10E-09	1.04E-09	5.39E-09
2904	257268.5	4086522	1.20E-10	1.73E-09	3.06E-08	3.06E-08	1.70E-08	8.00E-08	1.82E-11	2.64E-10	4.77E-09	4.77E-09	2.62E-09	1.24E-08	9.86E-12	1.43E-10	2.12E-09	2.12E-09	1.05E-09	5.45E-09
2905	257246	4086514	1.21E-10	1.75E-09	3.09E-08	3.09E-08	1.72E-08	8.08E-08	1.83E-11	2.66E-10	4.82E-09	4.82E-09	2.65E-09	1.26E-08	9.96E-12	1.44E-10	2.14E-09	2.14E-09	1.06E-09	5.50E-09
2906	257223.4	4086506	1.22E-10	1.77E-09	3.12E-08	3.12E-08	1.74E-08	8.17E-08	1.85E-11	2.69E-10	4.87E-09	4.87E-09	2.68E-09	1.27E-08	1.01E-11	1.46E-10	2.17E-09	2.17E-09	1.07E-09	5.57E-09
2907	257200.8	4086498	1.23E-10	1.79E-09	3.15E-08	3.15E-08	1.76E-08	8.25E-08	1.87E-11	2.72E-10	4.92E-09	4.92E-09	2.71E-09	1.28E-08	1.02E-11	1.47E-10	2.19E-09	2.19E-09	1.08E-09	5.62E-09
2908	257178.3	4086489	1.25E-10	1.80E-09	3.18E-08	3.18E-08	1.77E-08	8.33E-08	1.89E-11	2.75E-10	4.97E-09	4.97E-09	2.73E-09	1.30E-08	1.03E-11	1.49E-10	2.21E-09	2.21E-09	1.09E-09	5.67E-09
2909	257155.7	4086481	1.26E-10	1.82E-09	3.21E-08	3.21E-08	1.79E-08	8.41E-08	1.91E-11	2.77E-10	5.02E-09	5.02E-09	2.76E-09	1.31E-08	1.04E-11	1.50E-10	2.23E-09	2.23E-09	1.10E-09	5.73E-09
2910	257133.1	4086473	1.27E-10	1.84E-09	3.24E-08	3.24E-08	1.81E-08	8.49E-08	1.93E-11	2.80E-10	5.06E-09	5.06E-09	2.78E-09	1.32E-08	1.05E-11	1.51E-10	2.25E-09	2.25E-09	1.11E-09	5.78E-09
2911	257110.6	4086465	1.28E-10	1.85E-09	3.27E-08	3.27E-08	1.82E-08	8.57E-08	1.94E-11	2.82E-10	5.11E-09	5.11E-09	2.81E-09	1.33E-08	1.06E-11	1.53E-10	2.27E-09	2.27E-09	1.13E-09	5.83E-09
2912	257088	4086456	1.29E-10	1.87E-09	3.30E-08	3.30E-08	1.84E-08	8.64E-08	1.96E-11	2.85E-10	5.15E-09	5.15E-09	2.83E-09	1.34E-08	1.07E-11	1.54E-10	2.29E-09	2.29E-09	1.14E-09	5.89E-09
2913	257065.4	4086448	1.30E-10	1.88E-09	3.33E-08	3.33E-08	1.86E-08	8.71E-08	1.98E-11	2.87E-10	5.20E-09	5.20E-09	2.86E-09	1.36E-08	1.07E-11	1.55E-10	2.31E-09	2.31E-09	1.14E-09	5.94E-09
2914	257042.9	4086440	1.31E-10	1.90E-09	3.35E-08	3.35E-08	1.87E-08	8.78E-08	1.99E-11	2.89E-10	5.24E-09	5.24E-09	2.88E-09	1.37E-08	1.08E-11	1.57E-10	2.33E-09	2.33E-09	1.15E-09	5.98E-09
2915	257020.3	4086432	1.32E-10	1.91E-09	3.38E-08	3.38E-08	1.88E-08	8.84E-08	2.01E-11	2.91E-10	5.27E-09	5.27E-09	2.90E-09	1.38E-08	1.09E-11	1.58E-10	2.35E-09	2.35E-09	1.16E-09	6.02E-09
2916	256997.8	4086423	1.33E-10	1.92E-09	3.39E-08	3.39E-08	1.89E-08	8.89E-08	2.02E-11	2.93E-10	5.30E-09	5.30E-09	2.91E-09	1.38E-08	1.10E-11	1.58E-10	2.36E-09	2.36E-09	1.17E-09	6.05E-09
2917	256975.2	4086415	1.33E-10	1.93E-09	3.41E-08	3.41E-08	1.90E-08	8.92E-08	2.02E-11	2.94E-10	5.32E-09	5.32E-09	2.93E-09	1.39E-08	1.10E-11	1.59E-10	2.37E-09	2.37E-09	1.17E-09	6.08E-09
2918	256952.6	4086407	1.34E-10	1.94E-09	3.42E-08	3.42E-08	1.90E-08	8.95E-08	2.03E-11	2.95E-10	5.34E-09	5.34E-09	2.93E-09	1.39E-08	1.10E-11	1.60E-10	2.37E-09	2.37E-09	1.17E-09	6.09E-09
2919	256930.1	4086399	1.34E-10	1.94E-09	3.42E-08	3.42E-08	1.91E-08	8.96E-08	2.03E-11	2.95E-10	5.34E-09	5.34E-09	2.94E-09	1.39E-08	1.10E-11	1.60E-10	2.38E-09	2.38E-09	1.18E-09	6.10E-09
2920	256907.5	4086390	1.34E-10	1.94E-09	3.42E-08	3.42E-08	1.91E-08	8.96E-08	2.03E-11	2.95E-10	5.34E-09	5.34E-09	2.94E-09	1.39E-08	1.10E-11	1.60E-10	2.38E-09	2.38E-09	1.18E-09	6.10E-09
2921	256884.9	4086382	1.34E-10	1.94E-09	3.42E-08	3.42E-08	1.91E-08	8.95E-08	2.03E-11	2.95E-10	5.34E-09	5.34E-09	2.94E-09	1.39E-08	1.10E-11	1.60E-10	2.38E-09	2.38E-09	1.18E-09	6.10E-09
2922	256862.4	4086374	1.34E-10	1.93E-09	3.41E-08	3.41E-08	1.90E-08	8.94E-08	2.03E-11	2.95E-10	5.33E-09	5.33E-09	2.93E-09	1.39E-08	1.10E-11	1.59E-10	2.37E-09	2.37E-09	1.17E-09	6.09E-09
2923	256839.8	4086366	1.34E-10	1.93E-09	3.41E-08	3.41E-08	1.90E-08	8.93E-08	2.03E-11	2.94E-10	5.32E-09	5.32E-09	2.93E-09	1.39E-08	1.10E-11	1.59E-10	2.37E-09	2.37E-09	1.17E-09	6.08E-09
2924	256817.2	4086357	1.33E-10	1.93E-09	3.41E-08	3.41E-08	1.90E-08	8.92E-08	2.02E-11	2.94E-10	5.32E-09	5.32E-09	2.92E-09	1.39E-08	1.10E-11	1.59E-10	2.37E-09	2.37E-09	1.17E-09	6.07E-09
2925	256794.7	4086349	1.33E-10	1.93E-09	3.40E-08	3.40E-08	1.90E-08	8.91E-08	2.02E-11	2.94E-10	5.31E-09	5.31E-09	2.92E-09	1.39E-08	1.10E-11	1.59E-10	2.36E-09	2.36E-09	1.17E-09	6.07E-09
2926	256772.1	4086341	1.33E-10	1.93E-09	3.40E-08	3.40E-08	1.90E-08	8.91E-08	2.02E-11	2.94E-10	5.31E-09	5.31E-09	2.92E-09	1.39E-08	1.10E-11	1.59E-10	2.36E-09	2.36E-09	1.17E-09	6.07E-09
2927	256749.6	4086333	1.33E-10	1.93E-09	3.40E-08	3.40E-08	1.90E-08	8.91E-08	2.02E-11	2.94E-10	5.32E-09	5.32E-09	2.92E-09	1.39E-08	1.10E-11	1.59E-10	2.36E-09	2.36E-09	1.17E-09	6.07E-09
2928	256727	4086324	1.33E-10	1.93E-09	3.41E-08	3.41E-08	1.90E-08	8.92E-08	2.02E-11	2.94E-10	5.32E-09	5.32E-09	2.93E-09	1.39E-08	1.10E-11	1.59E-10	2.37E-09	2.37E-09	1.17E-09	6.08E-09
2929	256704.4	4086316	1.34E-10	1.93E-09	3.41E-08	3.41E-08	1.90E-08	8.94E-08	2.03E-11	2.94E-10	5.33E-09	5.33E-09	2.93E-09	1.39E-08	1.10E-11	1.59E-10	2.37E-09	2.37E-09	1.17E-09	6.09E-09
2930	256681.9	4086308	1.34E-10	1.94E-09	3.42E-08	3.42E-08	1.91E-08	8.95E-08	2.03E-11	2.95E-10	5.34E-09	5.34E-09	2.94E-09	1.39E-08	1.10E-11	1.60E-10	2.38E-09	2.38E-09	1.18E-09	6.10E-09
2931	256659.3	4086300	1.34E-10	1.94E-09	3.43E-08	3.43E-08	1.91E-08	8.97E-08	2.04E-11	2.96E-10	5.35E-09	5.35E-09	2.94E-09	1.40E-08	1.11E-11	1.60E-10	2.38E-09	2.38E-09	1.18E-09	6.11E-09
2932	256636.7	4086291	1.34E-10	1.94E-09	3.43E-08	3.43E-08	1.91E-08	8.99E-08	2.04E-11	2.96E-10	5.36E-09	5.36E-09	2.95E-09	1.40E-08	1.11E-11	1.60E-10	2.39E-09	2.39E-09	1.18E-09	6.12E-09
2933	256614.2	4086283	1.35E-10	1.95E-09	3.45E-08	3.45E-08	1.92E-08	9.02E-08	2.05E-11	2.97E-10	5.38E-09	5.38E-09	2.96E-09	1.40E-08	1.11E-11	1.61E-10	2.39E-09	2.39E-09	1.19E-09	6.15E-09
2934	256591.6	4086275	1.35E-10	1.96E-09	3.46E-08	3.46E-08	1.93E-08	9.06E-08	2.06E-11	2.98E-10	5.40E-09	5.40E-09	2.97E-09	1.41E-08	1.12E-11	1.61E-10	2.40E-09	2.40E-09	1.19E-09	6.17E-09
2935	256569	4086267	1.36E-10	1.96E-09	3.47E-08	3.47E-08	1.93E-08	9.08E-08	2.06E-11	2.99E-10	5.41E-09	5.41E-09	2.98E-09	1.41E-08	1.12E-11	1.62E-10	2.41E-09	2.41E-09	1.19E-09	6.18E-09
2936	256536.4	4086237	1.38E-10	2.00E-09	3.53E-08	3.53E-08	1.97E-08	9.23E-08	2.10E-11	3.04E-10	5.51E-09	5.51E-09	3.03E-09	1.44E-08	1.14E-11	1.65E-10	2.45E-09	2.45E-09	1.21E-09	6.29E-09
2937	256526.4	4086215	1.40E-10	2.03E-09	3.58E-08	3.58E-08	2.00E-08	9.37E-08	2.13E-11	3.09E-10	5.59E-09	5.59E-09	3.07E-09	1.46E-08	1.16E-11	1.67E-10	2.49E-09	2.49E-09	1.23E-09	6.38E-09
2938	256516.3	4086193	1.42E-10	2.06E-09	3.63E-08	3.63E-08	2.03E-08	9.51E-08	2.16E-11	3.13E-10	5.67E-09	5.67E-09	3.12E-09	1.48E-08	1.17E-11	1.70E-10	2.52E-09	2.52E-09	1.25E-09	6.48E-09
2939	256506.3	4086171	1.44E-10	2.09E-09	3.68E-08	3.68E-08	2.05E-08	9.64E-08	2.19E-11	3.18E-10	5.75E-09	5.75E-09	3.16E-09	1.50E-08	1.19E-11	1.72E-10	2.56E-09	2.56E-09	1.27E-09	6.57E-09
2940	256496.2	4086149	1.46E-10	2.11E-09	3.73E-08	3.73E-08	2.08E-08	9.77E-08	2.22E-11	3.22E-10	5.82E-09	5.82E-09	3.20E-09	1.52E-08	1.20E-11	1.74E-10	2.59E-09	2.59E-09	1.28E-09	6.65E-09
2941	256486.2	4086128	1.48E-10	2.14E-09	3.77E-08	3.77E-08	2.10E-08	9.87E-08	2.24E-11	3.25E-10	5.89E-09	5.89E-09	3.24E-09	1.54E-08	1.22E-11	1.76E-10	2.62E-09	2.62E-09	1.30E-09	6.72E-09
2942	256476.1	4086106	1.49E-10	2.16E-09	3.81E-08	3.81E-08	2.12E-08	9.97E-08	2.26E-11	3.28E-10	5.94E-09	5.94E-09	3.27E-09	1.55E-08	1.23E-11	1.78E-10	2.64E-09	2.64E-09	1.31E-09	6.79E-09
2943	256466.1	4086084	1.50E-10	2.17E-09	3.83E-08	3.83E-08	2.14E-08	1.00E-07	2.28E-11	3.31E-10	5.99E-09	5.99E-09	3.29E-09	1.56E-08	1.24E-11	1.79E-10	2.66E-09	2.66E-09	1.32E-09	6.84E-09
2944	256456.1	4086062	1.51E-10	2.18E-09	3.85E-08	3.85E-08	2.15E-08	1.01E-07	2.29E-11	3.32E-10	6.01E-09	6.01E-09	3.31E-09	1.57E-08	1.24E-11	1.80E-10	2.68E-09	2.68E-09	1.32E-09	6.87E-09
2945	256446	4086040	1.51E-10	2.18E-09	3.86E-08	3.86E-08	2.15E-08	1.01E-07	2.29E-11	3.33E-10	6.02E-09	6.02E-09	3.31E-09	1.57E-08	1.25E-11	1.80E-10	2.68E-09	2.68E-09	1.33E-09	6.88E-09
2946	256436	4086018	1.51E-10	2.18E-09	3.85E-08	3.85E-08	2.15E-08	1.01E-07	2.29E-11	3.33E-10	6.02E-09	6.02E-09	3.31E-09	1.57E-08	1.24E-11	1.80E-10	2.68E-09	2.68E-09	1.33E-09	6.87E-09

2947	256425.9	4085997	1.50E-10	2.17E-09	3.84E-08	3.84E-08	2.14E-08	1.00E-07		2.28E-11	3.31E-10	5.99E-09	5.99E-09	3.29E-09	1.56E-08		1.24E-11	1.79E-10	2.67E-09	2.67E-09	1.32E-09	6.84E-09
2948	256415.9	4085975	1.49E-10	2.16E-09	3.81E-08	3.81E-08	2.12E-08	9.97E-08		2.26E-11	3.28E-10	5.95E-09	5.95E-09	3.27E-09	1.55E-08		1.23E-11	1.78E-10	2.65E-09	2.65E-09	1.31E-09	6.79E-09
2949	256405.8	4085953	1.47E-10	2.13E-09	3.76E-08	3.76E-08	2.10E-08	9.86E-08		2.24E-11	3.25E-10	5.88E-09	5.88E-09	3.23E-09	1.53E-08		1.21E-11	1.76E-10	2.62E-09	2.62E-09	1.29E-09	6.71E-09
2950	256395.8	4085931	1.45E-10	2.10E-09	3.71E-08	3.71E-08	2.07E-08	9.70E-08		2.20E-11	3.20E-10	5.79E-09	5.79E-09	3.18E-09	1.51E-08		1.20E-11	1.73E-10	2.58E-09	2.58E-09	1.27E-09	6.61E-09
2951	256385.7	4085909	1.42E-10	2.06E-09	3.64E-08	3.64E-08	2.03E-08	9.52E-08		2.16E-11	3.14E-10	5.68E-09	5.68E-09	3.12E-09	1.48E-08		1.17E-11	1.70E-10	2.53E-09	2.53E-09	1.25E-09	6.48E-09
2952	256375.7	4085888	1.39E-10	2.01E-09	3.55E-08	3.55E-08	1.98E-08	9.31E-08		2.11E-11	3.07E-10	5.55E-09	5.55E-09	3.05E-09	1.45E-08		1.15E-11	1.66E-10	2.47E-09	2.47E-09	1.22E-09	6.34E-09
2953	256365.6	4085866	1.36E-10	1.96E-09	3.46E-08	3.46E-08	1.93E-08	9.06E-08		2.06E-11	2.99E-10	5.40E-09	5.40E-09	2.97E-09	1.41E-08		1.12E-11	1.62E-10	2.40E-09	2.40E-09	1.19E-09	6.17E-09
2954	256355.6	4085844	1.31E-10	1.90E-09	3.35E-08	3.35E-08	1.87E-08	8.77E-08		1.99E-11	2.89E-10	5.23E-09	5.23E-09	2.87E-09	1.36E-08		1.08E-11	1.56E-10	2.33E-09	2.33E-09	1.15E-09	5.97E-09
2955	256345.5	4085822	1.26E-10	1.83E-09	3.23E-08	3.23E-08	1.80E-08	8.44E-08		1.92E-11	2.78E-10	5.04E-09	5.04E-09	2.77E-09	1.31E-08		1.04E-11	1.51E-10	2.24E-09	2.24E-09	1.11E-09	5.75E-09
2956	256335.5	4085800	1.21E-10	1.75E-09	3.09E-08	3.09E-08	1.72E-08	8.10E-08		1.84E-11	2.67E-10	4.83E-09	4.83E-09	2.65E-09	1.26E-08		9.98E-12	1.44E-10	2.15E-09	2.15E-09	1.06E-09	5.51E-09
2957	256325.4	4085778	1.16E-10	1.67E-09	2.95E-08	2.95E-08	1.65E-08	7.73E-08		1.75E-11	2.55E-10	4.61E-09	4.61E-09	2.54E-09	1.20E-08		9.53E-12	1.38E-10	2.05E-09	2.05E-09	1.02E-09	5.27E-09
2958	256315.4	4085757	1.10E-10	1.59E-09	2.81E-08	2.81E-08	1.57E-08	7.35E-08		1.67E-11	2.42E-10	4.39E-09	4.39E-09	2.41E-09	1.14E-08		9.06E-12	1.31E-10	1.95E-09	1.95E-09	9.66E-10	5.01E-09
2959	256305.3	4085735	1.04E-10	1.51E-09	2.66E-08	2.66E-08	1.48E-08	6.97E-08		1.58E-11	2.30E-10	4.16E-09	4.16E-09	2.29E-09	1.08E-08		8.59E-12	1.24E-10	1.85E-09	1.85E-09	9.16E-10	4.75E-09
2960	256295.3	4085713	9.86E-11	1.43E-09	2.52E-08	2.52E-08	1.40E-08	6.60E-08		1.50E-11	2.17E-10	3.93E-09	3.93E-09	2.16E-09	1.03E-08		8.13E-12	1.18E-10	1.75E-09	1.75E-09	8.66E-10	4.49E-09
2961	256285.2	4085691	9.32E-11	1.35E-09	2.38E-08	2.38E-08	1.33E-08	6.23E-08		1.42E-11	2.05E-10	3.72E-09	3.72E-09	2.04E-09	9.70E-09		7.69E-12	1.11E-10	1.65E-09	1.65E-09	8.19E-10	4.25E-09
2962	256275.2	4085669	8.80E-11	1.27E-09	2.25E-08	2.25E-08	1.25E-08	5.88E-08		1.34E-11	1.94E-10	3.51E-09	3.51E-09	1.93E-09	9.15E-09		7.25E-12	1.05E-10	1.56E-09	1.56E-09	7.73E-10	4.01E-09
2963	256265.1	4085648	8.32E-11	1.20E-09	2.12E-08	2.12E-08	1.18E-08	5.56E-08		1.26E-11	1.83E-10	3.32E-09	3.32E-09	1.82E-09	8.65E-09		6.86E-12	9.92E-11	1.48E-09	1.48E-09	7.31E-10	3.79E-09
2964	256255.1	4085626	7.88E-11	1.14E-09	2.01E-08	2.01E-08	1.12E-08	5.27E-08		1.20E-11	1.74E-10	3.14E-09	3.14E-09	1.73E-09	8.20E-09		6.50E-12	9.40E-11	1.40E-09	1.40E-09	6.92E-10	3.59E-09
2965	256245.1	4085604	7.50E-11	1.08E-09	1.91E-08	1.91E-08	1.07E-08	5.01E-08		1.14E-11	1.65E-10	2.99E-09	2.99E-09	1.64E-09	7.80E-09		6.18E-12	8.94E-11	1.33E-09	1.33E-09	6.58E-10	3.41E-09
2966	256235	4085582	7.16E-11	1.04E-09	1.83E-08	1.83E-08	1.02E-08	4.79E-08		1.09E-11	1.58E-10	2.85E-09	2.85E-09	1.57E-09	7.45E-09		5.90E-12	8.53E-11	1.27E-09	1.27E-09	6.29E-10	3.26E-09
2967	256225	4085560	6.88E-11	9.94E-10	1.76E-08	1.76E-08	9.79E-09	4.60E-08		1.04E-11	1.52E-10	2.74E-09	2.74E-09	1.51E-09	7.15E-09		5.67E-12	8.20E-11	1.22E-09	1.22E-09	6.04E-10	3.13E-09
2968	256214.9	4085538	6.64E-11	9.60E-10	1.70E-08	1.70E-08	9.45E-09	4.44E-08		1.01E-11	1.46E-10	2.65E-09	2.65E-09	1.46E-09	6.91E-09		5.47E-12	7.91E-11	1.18E-09	1.18E-09	5.83E-10	3.02E-09
2969	256204.9	4085517	6.44E-11	9.31E-10	1.64E-08	1.64E-08	9.17E-09	4.31E-08		9.77E-12	1.42E-10	2.57E-09	2.57E-09	1.41E-09	6.70E-09		5.31E-12	7.68E-11	1.14E-09	1.14E-09	5.66E-10	2.93E-09
2970	256194.8	4085495	6.27E-11	9.07E-10	1.60E-08	1.60E-08	8.93E-09	4.19E-08		9.52E-12	1.38E-10	2.50E-09	2.50E-09	1.38E-09	6.53E-09		5.17E-12	7.48E-11	1.11E-09	1.11E-09	5.51E-10	2.86E-09
2971	256184.8	4085473	6.13E-11	8.87E-10	1.57E-08	1.57E-08	8.73E-09	4.10E-08		9.31E-12	1.35E-10	2.45E-09	2.45E-09	1.34E-09	6.38E-09		5.05E-12	7.31E-11	1.09E-09	1.09E-09	5.39E-10	2.79E-09
2972	256174.7	4085451	6.01E-11	8.69E-10	1.53E-08	1.53E-08	8.55E-09	4.02E-08		9.11E-12	1.32E-10	2.39E-09	2.39E-09	1.32E-09	6.25E-09		4.95E-12	7.16E-11	1.07E-09	1.07E-09	5.27E-10	2.73E-09
2973	256164.7	4085429	5.89E-11	8.52E-10	1.50E-08	1.50E-08	8.39E-09	3.94E-08		8.94E-12	1.30E-10	2.35E-09	2.35E-09	1.29E-09	6.13E-09		4.86E-12	7.02E-11	1.05E-09	1.05E-09	5.17E-10	2.68E-09
2974	256154.6	4085408	5.78E-11	8.36E-10	1.48E-08	1.48E-08	8.23E-09	3.87E-08		8.77E-12	1.27E-10	2.31E-09	2.31E-09	1.27E-09	6.01E-09		4.76E-12	6.89E-11	1.03E-09	1.03E-09	5.08E-10	2.63E-09
2975	256144.6	4085386	5.67E-11	8.20E-10	1.45E-08	1.45E-08	8.07E-09	3.79E-08		8.60E-12	1.25E-10	2.26E-09	2.26E-09	1.24E-09	5.90E-09		4.67E-12	6.76E-11	1.01E-09	1.01E-09	4.98E-10	2.58E-09
2976	256134.5	4085364	5.56E-11	8.04E-10	1.42E-08	1.42E-08	7.91E-09	3.72E-08		8.44E-12	1.22E-10	2.22E-09	2.22E-09	1.22E-09	5.78E-09		4.58E-12	6.63E-11	9.86E-10	9.86E-10	4.88E-10	2.53E-09
2977	256124.5	4085342	5.45E-11	7.88E-10	1.39E-08	1.39E-08	7.76E-09	3.64E-08		8.27E-12	1.20E-10	2.17E-09	2.17E-09	1.19E-09	5.67E-09		4.49E-12	6.49E-11	9.66E-10	9.66E-10	4.78E-10	2.48E-09
2978	256114.4	4085320	5.34E-11	7.72E-10	1.36E-08	1.36E-08	7.60E-09	3.57E-08		8.10E-12	1.18E-10	2.13E-09	2.13E-09	1.17E-09	5.55E-09		4.40E-12	6.36E-11	9.47E-10	9.47E-10	4.69E-10	2.43E-09
2979	256104.4	4085298	5.23E-11	7.57E-10	1.34E-08	1.34E-08	7.45E-09	3.50E-08		7.94E-12	1.15E-10	2.09E-09	2.09E-09	1.15E-09	5.44E-09		4.31E-12	6.24E-11	9.28E-10	9.28E-10	4.60E-10	2.38E-09
2980	256094.3	4085277	5.14E-11	7.43E-10	1.31E-08	1.31E-08	7.31E-09	3.43E-08		7.80E-12	1.13E-10	2.05E-09	2.05E-09	1.13E-09	5.34E-09		4.23E-12	6.12E-11	9.11E-10	9.11E-10	4.51E-10	2.34E-09
2981	256084.3	4085255	5.04E-11	7.30E-10	1.29E-08	1.29E-08	7.18E-09	3.37E-08		7.66E-12	1.11E-10	2.01E-09	2.01E-09	1.11E-09	5.25E-09		4.16E-12	6.01E-11	8.95E-10	8.95E-10	4.43E-10	2.30E-09
2982	256074.2	4085233	4.97E-11	7.18E-10	1.27E-08	1.27E-08	7.07E-09	3.32E-08		7.54E-12	1.09E-10	1.98E-09	1.98E-09	1.09E-09	5.17E-09		4.09E-12	5.92E-11	8.81E-10	8.81E-10	4.36E-10	2.26E-09
2983	257629.5	4086654	9.22E-11	1.33E-09	2.35E-08	2.35E-08	1.31E-08	6.16E-08		1.40E-11	2.03E-10	3.68E-09	3.68E-09	2.02E-09	9.59E-09		7.60E-12	1.10E-10	1.64E-09	1.64E-09	8.10E-10	4.20E-09
2984	257653.8	4086653	9.13E-11	1.32E-09	2.33E-08	2.33E-08	1.30E-08	6.11E-08		1.39E-11	2.01E-10	3.64E-09	3.64E-09	2.00E-09	9.50E-09		7.53E-12	1.09E-10	1.62E-09	1.62E-09	8.02E-10	4.16E-09
2985	257678.1	4086652	9.05E-11	1.31E-09	2.31E-08	2.31E-08	1.29E-08	6.05E-08		1.37E-11	1.99E-10	3.61E-09	3.61E-09	1.98E-09	9.42E-09		7.46E-12	1.08E-10	1.61E-09	1.61E-09	7.95E-10	4.12E-09
2986	257702.4	4086651	8.97E-11	1.30E-09	2.29E-08	2.29E-08	1.28E-08	6.00E-08		1.36E-11	1.98E-10	3.58E-09	3.58E-09	1.97E-09	9.34E-09		7.40E-12	1.07E-10	1.59E-09	1.59E-09	7.88E-10	4.09E-09
2987	257726.7	4086650	8.90E-11	1.29E-09	2.27E-08	2.27E-08	1.27E-08	5.95E-08		1.35E-11	1.96E-10	3.55E-09	3.55E-09	1.95E-09	9.26E-09		7.34E-12	1.06E-10	1.58E-09	1.58E-09	7.82E-10	4.05E-09
2988	257750.9	4086649	8.83E-11	1.28E-09	2.25E-08	2.25E-08	1.26E-08	5.90E-08		1.34E-11	1.94E-10	3.52E-09	3.52E-09	1.94E-09	9.18E-09		7.28E-12	1.05E-10	1.57E-09	1.57E-09	7.75E-10	4.02E-09
2989	257775.2	4086648	8.75E-11	1.27E-09	2.23E-08	2.23E-08	1.25E-08	5.85E-08		1.33E-11	1.93E-10	3.49E-09	3.49E-09	1.92E-09	9.10E-09		7.21E-12	1.04E-10	1.55E-09	1.55E-09	7.68E-10	3.98E-09
2990	257799.5	4086647	8.67E-11	1.25E-09	2.21E-08	2.21E-08	1.23E-08	5.80E-08		1.32E-11	1.91E-10	3.46E-09	3.46E-09	1.90E-09	9.02E-09		7.15E-12	1.03E-10	1.54E-09	1.54E-09	7.61E-10	3.95E-09
2991	257823.8	4086646	8.59E-11	1.24E-09	2.19E-08	2.19E-08	1.22E-08	5.74E-08		1.30E-11	1.89E-10	3.42E-09	3.42E-09	1.88E-09	8.93E-09		7.08E-12	1.02E-10	1.52E-09	1.52E-09	7.54E-10	3.91E-09
2992	257848.1	4086644	8.49E-11	1.23E-09	2.17E-08	2.17E-08	1.21E-08	5.68E-08		1.29E-11	1.87E-10	3.39E-09	3.39E-09	1.86E-09	8.84E-09		7.00E-12	1.01E-10	1.51E-09	1.51E-09	7.46E-10	3.87E-09
2993	257872.4	4086643	8.39E-11	1.21E-09	2.14E-08	2.14E-08	1.19E-08	5.61E-08		1.27E-11	1.85E-10	3.35E-09	3.35E-09	1.84E-09	8.73E-09		6.92E-12	1.00E-10	1.49E-09	1.49E-09	7.37E-10	3.82E-09
2994	257896.6	4086642	8.28E-11	1.20E-09	2.12E-08	2.12E-08	1.18E-08	5.54E-08		1.26E-11	1.82E-10	3.30E-09	3.30E-09	1.82E-09	8.62E-09		6.83E-12	9.87E-11	1.47E-09	1.47E-09	7.27E-10	3.77E-09
2995	257920.9	4086641	8.16E-11	1.18E-09	2.08E-08	2.08E-08	1.16E-08	5.46E-08		1.24E-11	1.80E-10	3.25E-09	3.25E-09	1.79E-09	8.49E-09		6.73E-12	9.73E-11	1.45E-09	1.45E-09	7.17E-10	3.72E-09
2996	257945.2	4086640	8.03E-11	1.16E-09	2.05E-08	2.05E-08	1.14E-08	5.37E-08		1.22E-11	1.77E-10	3.20E-09	3.20E-09	1.76E-09	8.36E-09		6.62E-12	9.58E-11	1.43E-09	1.43E-09	7.05E-10	3.66E-09
2997	257969.5	4086639	7.89E-11	1.14E-09	2.02E-08	2.02E-08	1.12E-08	5.28E-08		1.20E-11	1.74E-10	3.15E-09	3.15E-09	1.73E-09	8.21E-09		6.51E-12	9.41E-11	1.40E-09	1.40E-09	6.93E-10	3.60E-09
2998	257993.8	4086638	7.75E-11	1.12E-09	1.98E-08	1.98E-08	1.10E-08	5.18E-08		1.18E-11	1.71E-10	3.09E-09	3.09E-09	1.70E-09	8.06E-09		6.39E-12	9.24E-11	1.37E-09	1.37E-09	6.81E-10	3.53E-09
2999	258018	4086637	7.60E-11	1.10E-09	1.94E-08	1.94E-08	1.08E-08	5.08E-08		1.15E-11	1.67E-10	3.03E-09	3.03E-09	1.67E-09	7.90E-09		6.26E-12	9.06E-11	1.35E-09	1.35E-09	6.67E-10	3.46E-09
3000	258042.3	4086636	7.44E-11	1.08E-09	1.90E-08	1.90E-08	1.06E-08	4.97E-08		1.13E-11	1.64E-10	2.97E-09	2.97E-09	1.63E-09	7.74E-09		6.13E-12	8.87E-11	1.32E-09	1.32E-09	6.53E-10	3.39E-09
3001	258066.6	4086635	7.28E-11	1.05E-09	1.86E-08	1.86E-08	1.04E-08	4.87E-08		1.11E-11	1.60E-10	2.90E-09	2.90E-09	1.60E-09	7.58E-09		6.00E-12	8.68E-11	1.29E-09	1.29E-09	6.40E-10	3.32E-09
3002	258090.9	4086634	7.13E-11	1.03E-09	1.82E-08	1.82E-08	1.02E-08	4.77E-08		1.08E-11	1.57E-10	2.84E-09	2.84E-09	1.56E-09	7.42E-09		5.88E-12	8.50E-11	1.27E-09	1.27E-09	6.26E-10	3.25E-09
3003	258115.2	4086633	6.98E-11	1.01E-09	1.78E-08	1.78E-08	9.94E-09	4.67E-08		1.06E-11	1.54E-10	2.78E-09	2.78E-09	1.53E-09	7.26E-09		5.75E-12	8.32E-11	1.24E-09	1.24E-09	6.13E-10	3.18E-09
3004	258139.5	4086632	6.84E-11	9.89E-10	1.75E-08	1.75E-08	9.73E-09	4.57E-08		1.04E-11	1.51E-10	2.73E-09	2.73E-09	1.50E-09	7.11E-09		5.63E-12	8.15E-11	1.21E-09	1.21E-09	6.00E-10	3.11E-09
3005	258163.7	4086630	6.70E-11	9.70E-10	1.71E-08	1.71E-08	9.55E-09	4.48E-08		1.02E-11	1.48E-10	2.67E-09	2.67E-09	1.47E-09	6.97E-09		5.53E-12	7.99E-11	1.19E-09	1.19E-09	5.89E-10	3.05E-09
3006	258188	4086629	6.58E-11	9.52E-10	1.68E-08	1.68E-08	9.37E-09	4.40E-08		9.99E-12	1.45E-10	2.62E-09	2.62E-09	1.44E-09	6.85E-09		5.43E-12	7.85E-11	1.17E-09	1.17E-09	5.78E-10	3.00E-09
3007	258212.3	4086628	6.47E-11	9.36E-10	1.65E-08	1.65E-08	9.21E-09	4.33E-08		9.82E-12	1.43E-10	2.58E-09	2.58E-09	1.42E-09	6.73E-09		5.33E-12	7.71E-11	1.15E-09	1.15E-09	5.68E-10	2.95E-09
3008	258236.6	4086627	6.36E-11	9.20E-10	1.63E-08	1.63E-08	9.06E-09	4.25E-08		9.66E-12	1.40E-10	2.54E-09	2.54E-09	1.39E-09	6.62E-09		5.24E-12	7.59E-11	1.13E-09	1.13E-09	5.59E-10	2.90E-09
3009	258260.9	4086626	6.26E-11	9.06E-10	1.60E-08	1.60E-08	8.92E-09	4.19E-08		9.50E-12	1.38E-10	2.50E-09	2.50E-09	1.37E-09	6.51E-09		5.16E-12	7.47E-11	1.11E-09	1.11E-09	5.50E-10	2.85E-09
3010	258285.1	4086625	6.17E-11	8.92E-10	1.58E-08	1.58E-08	8.78E-09	4.12E-08		9.36E-12	1.36E-10	2.46E-09	2.46E-09	1.35E-09	6.42E-09		5.08E-12	7.35E-11	1.09E-09	1.09E-09	5.42E-10	2.81E-09
3011	258309.4	4086624	6.07E-11	8.79E-10	1.55E-08	1.55E-08	8.65E-09	4.06E-08		9.22E-12	1.34E-10	2.42E-09	2.42E-09	1.33E-09	6.32E-09		5.01E-12	7.24E-11	1.08E-09	1.08E-09	5.33E-10	2.77E-09
3012	258333.7	4086623	5.98E-11	8.65E-10	1.53E-08	1.53E-08	8.52E-09	4.00E-08		9.08E-12	1.32E-10	2.39E-09	2.39E-09	1.31E-09	6.22E-09		4.93E-12	7.13E-11	1.06E-09	1.06E-09	5.25E-10	2.72E-09
3013	258358	4086622	5.89E-11	8.52E-10	1.50E-08	1.50E-08	8.39E-09	3.94E-08		8.94E-12	1.30E-10	2.35E-09	2.35E-09	1.29E-09	6.13E-09		4.86E-12	7.02E-11	1.05E-09	1.05E-09	5.17E-10	2.68E-09
3014	258382.3	4086621	5.80E-11	8.39E-10	1.48E-08	1.48E-08	8.26E-09	3.88E-08		8.81E-12	1.28E-10	2.31E-09	2.31E-09	1.27E-09	6.04E-09		4.78E-12	6.92E-11	1.03E-09	1.03E-09	5.10E-10	2.64E-09
3015	258406.6	4086620	5.71E-11	8.26E-10	1.46E-08	1.46E-08	8.14E-09	3.82E-08		8.67E-12	1.26E-10	2.28E-09	2.28E-09	1.25E-09	5.94E-09		4.71E-12	6.81E-11	1.01E-09	1.01E-09	5.02E-10	2.60E-09
3016	258430.8	4086619	5.62E-11	8.13E-10	1.44E-08	1.44E-08	8.01E-09	3.76E-08		8.54E-12	1.24E-10	2.24E-09	2.24E-09	1.23E-09	5.85E-09		4.64E-12	6.70E-11	9.98E-10	9.98E-10	4.94E-10	2.56E-09

			UnMitigated		11			T2L3					T4				
			7	258385.11	4084970.84												
			7.00E-04	1.01E-02	7.46E-03	7.46E-03	4.16E-03	1.06E-04	1.54E-03	1.17E-03	1.17E-03	6.41E-04	5.77E-05	8.35E-04	5.19E-04	5.19E-04	2.57E-04
			Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
1	258389.5	4085119	2.39E-04	3.46E-03	2.55E-03	2.55E-03	1.42E-03	3.63E-05	5.26E-04	3.98E-04	3.98E-04	2.19E-04	1.97E-05	2.85E-04	1.77E-04	1.77E-04	8.76E-05
2	258388.7	4085095	3.81E-04	5.51E-03	4.06E-03	4.06E-03	2.26E-03	5.78E-05	8.39E-04	6.34E-04	6.34E-04	3.48E-04	3.14E-05	4.54E-04	2.82E-04	2.82E-04	1.40E-04
3	258388	4085070	5.28E-04	7.63E-03	5.63E-03	5.63E-03	3.14E-03	8.01E-05	1.16E-03	8.79E-04	8.79E-04	4.83E-04	4.35E-05	6.29E-04	3.91E-04	3.91E-04	1.93E-04
4	258387.3	4085045	6.21E-04	8.98E-03	6.62E-03	6.62E-03	3.69E-03	9.42E-05	1.37E-03	1.03E-03	1.03E-03	5.68E-04	5.12E-05	7.40E-04	4.60E-04	4.60E-04	2.28E-04
5	258386.6	4085020	6.74E-04	9.75E-03	7.19E-03	7.19E-03	4.01E-03	1.02E-04	1.49E-03	1.12E-03	1.12E-03	6.17E-04	5.56E-05	8.04E-04	4.99E-04	4.99E-04	2.47E-04
6	258385.8	4084996	7.00E-04	1.01E-02	7.46E-03	7.46E-03	4.16E-03	1.06E-04	1.54E-03	1.17E-03	1.17E-03	6.41E-04	5.77E-05	8.35E-04	5.18E-04	5.18E-04	2.57E-04
7	258385.1	4084971	7.00E-04	1.01E-02	7.46E-03	7.46E-03	4.16E-03	1.06E-04	1.54E-03	1.17E-03	1.17E-03	6.41E-04	5.77E-05	8.35E-04	5.19E-04	5.19E-04	2.57E-04
8	258384.4	4084946	6.71E-04	9.71E-03	7.16E-03	7.16E-03	3.99E-03	1.02E-04	1.48E-03	1.12E-03	1.12E-03	6.14E-04	5.53E-05	8.00E-04	4.97E-04	4.97E-04	2.46E-04
9	258383.7	4084921	5.79E-04	8.37E-03	6.17E-03	6.17E-03	3.44E-03	8.79E-05	1.28E-03	9.64E-04	9.64E-04	5.30E-04	4.77E-05	6.90E-04	4.29E-04	4.29E-04	2.12E-04
10	258407.8	4085136	1.47E-04	2.13E-03	1.57E-03	1.57E-03	8.74E-04	2.23E-05	3.24E-04	2.45E-04	2.45E-04	1.35E-04	1.21E-05	1.75E-04	1.09E-04	1.09E-04	5.39E-05
11	258383.9	4085162	1.42E-04	2.05E-03	1.51E-03	1.51E-03	8.43E-04	2.15E-05	3.13E-04	2.36E-04	2.36E-04	1.30E-04	1.17E-05	1.69E-04	1.05E-04	1.05E-04	5.20E-05
12	258413.7	4085094	2.34E-04	3.39E-03	2.50E-03	2.50E-03	1.39E-03	3.56E-05	5.16E-04	3.90E-04	3.90E-04	2.14E-04	1.93E-05	2.79E-04	1.74E-04	1.74E-04	8.59E-05
13	258413	4085069	3.15E-04	4.55E-03	3.35E-03	3.35E-03	1.87E-03	4.78E-05	6.93E-04	5.24E-04	5.24E-04	2.88E-04	2.59E-05	3.75E-04	2.33E-04	2.33E-04	1.15E-04
14	258412.3	4085044	3.83E-04	5.54E-03	4.09E-03	4.09E-03	2.28E-03	5.82E-05	8.45E-04	6.38E-04	6.38E-04	3.51E-04	3.16E-05	4.57E-04	2.84E-04	2.84E-04	1.40E-04
15	258411.6	4085020	4.32E-04	6.25E-03	4.60E-03	4.60E-03	2.57E-03	6.55E-05	9.51E-04	7.19E-04	7.19E-04	3.95E-04	3.56E-05	5.15E-04	3.20E-04	3.20E-04	1.58E-04
16	258410.8	4084995	4.61E-04	6.67E-03	4.92E-03	4.92E-03	2.74E-03	7.00E-05	1.02E-03	7.67E-04	7.67E-04	4.22E-04	3.80E-05	5.50E-04	3.41E-04	3.41E-04	1.69E-04
17	258410.1	4084970	4.72E-04	6.83E-03	5.03E-03	5.03E-03	2.81E-03	7.17E-05	1.04E-03	7.86E-04	7.86E-04	4.32E-04	3.89E-05	5.63E-04	3.50E-04	3.50E-04	1.73E-04
18	258409.4	4084945	4.63E-04	6.70E-03	4.93E-03	4.93E-03	2.75E-03	7.03E-05	1.02E-03	7.71E-04	7.71E-04	4.24E-04	3.82E-05	5.52E-04	3.43E-04	3.43E-04	1.70E-04
19	258408.7	4084921	4.30E-04	6.21E-03	4.58E-03	4.58E-03	2.55E-03	6.52E-05	9.46E-04	7.15E-04	7.15E-04	3.93E-04	3.54E-05	5.12E-04	3.18E-04	3.18E-04	1.57E-04
20	258432.8	4085136	1.16E-04	1.67E-03	1.23E-03	1.23E-03	6.88E-04	1.76E-05	2.55E-04	1.93E-04	1.93E-04	1.06E-04	9.54E-06	1.38E-04	8.57E-05	8.57E-05	4.24E-05
21	258402.2	4085179	1.02E-04	1.48E-03	1.09E-03	1.09E-03	6.06E-04	1.55E-05	2.25E-04	1.70E-04	1.70E-04	9.34E-05	8.41E-06	1.22E-04	7.56E-05	7.56E-05	3.74E-05
22	258438.7	4085093	1.66E-04	2.40E-03	1.77E-03	1.77E-03	9.88E-04	2.52E-05	3.66E-04	2.77E-04	2.77E-04	1.52E-04	1.37E-05	1.98E-04	1.23E-04	1.23E-04	6.09E-05
23	258438	4085068	2.14E-04	3.09E-03	2.28E-03	2.28E-03	1.27E-03	3.24E-05	4.70E-04	3.55E-04	3.55E-04	1.95E-04	1.76E-05	2.55E-04	1.58E-04	1.58E-04	7.83E-05
24	258437.3	4085044	2.61E-04	3.77E-03	2.78E-03	2.78E-03	1.55E-03	3.96E-05	5.74E-04	4.34E-04	4.34E-04	2.39E-04	2.15E-05	3.11E-04	1.93E-04	1.93E-04	9.56E-05
25	258436.5	4085019	3.00E-04	4.34E-03	3.20E-03	3.20E-03	1.78E-03	4.55E-05	6.61E-04	4.99E-04	4.99E-04	2.74E-04	2.47E-05	3.57E-04	2.22E-04	2.22E-04	1.10E-04
26	258435.8	4084994	3.28E-04	4.74E-03	3.49E-03	3.49E-03	1.95E-03	4.97E-05	7.22E-04	5.45E-04	5.45E-04	3.00E-04	2.70E-05	3.91E-04	2.43E-04	2.43E-04	1.20E-04
27	258435.1	4084969	3.43E-04	4.96E-03	3.66E-03	3.66E-03	2.04E-03	5.21E-05	7.56E-04	5.71E-04	5.71E-04	3.14E-04	2.83E-05	4.09E-04	2.54E-04	2.54E-04	1.26E-04
28	258434.4	4084945	3.45E-04	4.99E-03	3.68E-03	3.68E-03	2.05E-03	5.23E-05	7.60E-04	5.74E-04	5.74E-04	3.16E-04	2.84E-05	4.11E-04	2.55E-04	2.55E-04	1.26E-04
29	258433.7	4084920	3.33E-04	4.82E-03	3.55E-03	3.55E-03	1.98E-03	5.06E-05	7.34E-04	5.55E-04	5.55E-04	3.05E-04	2.75E-05	3.97E-04	2.47E-04	2.47E-04	1.22E-04
30	258457.7	4085135	9.45E-05	1.37E-03	1.01E-03	1.01E-03	5.62E-04	1.43E-05	2.08E-04	1.57E-04	1.57E-04	8.65E-05	7.79E-06	1.13E-04	7.00E-05	7.00E-05	3.46E-05
31	258444.4	4085170	7.99E-05	1.16E-03	8.52E-04	8.52E-04	4.75E-04	1.21E-05	1.76E-04	1.33E-04	1.33E-04	7.31E-05	6.59E-06	9.53E-05	5.92E-05	5.92E-05	2.93E-05
32	258420.5	4085196	7.84E-05	1.13E-03	8.36E-04	8.36E-04	4.66E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.17E-05	6.46E-06	9.35E-05	5.81E-05	5.81E-05	2.87E-05
33	258386.1	4085212	8.81E-05	1.27E-03	9.39E-04	9.39E-04	5.23E-04	1.34E-05	1.94E-04	1.47E-04	1.47E-04	8.06E-05	7.26E-06	1.05E-04	6.52E-05	6.52E-05	3.23E-05
34	258463.7	4085092	1.27E-04	1.84E-03	1.36E-03	1.36E-03	7.57E-04	1.93E-05	2.81E-04	2.12E-04	2.12E-04	1.17E-04	1.05E-05	1.52E-04	9.43E-05	9.43E-05	4.67E-05
35	258463	4085068	1.58E-04	2.28E-03	1.68E-03	1.68E-03	9.37E-04	2.39E-05	3.47E-04	2.62E-04	2.62E-04	1.44E-04	1.30E-05	1.88E-04	1.17E-04	1.17E-04	5.78E-05
36	258462.3	4085043	1.90E-04	2.75E-03	2.03E-03	2.03E-03	1.13E-03	2.89E-05	4.19E-04	3.16E-04	3.16E-04	1.74E-04	1.57E-05	2.27E-04	1.41E-04	1.41E-04	6.97E-05
37	258461.5	4085018	2.20E-04	3.18E-03	2.35E-03	2.35E-03	1.31E-03	3.34E-05	4.85E-04	3.66E-04	3.66E-04	2.01E-04	1.81E-05	2.62E-04	1.63E-04	1.63E-04	8.07E-05
38	258460.8	4084993	2.44E-04	3.53E-03	2.60E-03	2.60E-03	1.45E-03	3.71E-05	5.38E-04	4.06E-04	4.06E-04	2.23E-04	2.01E-05	2.91E-04	1.81E-04	1.81E-04	8.95E-05
39	258460.1	4084969	2.60E-04	3.77E-03	2.78E-03	2.78E-03	1.55E-03	3.95E-05	5.74E-04	4.33E-04	4.33E-04	2.38E-04	2.15E-05	3.10E-04	1.93E-04	1.93E-04	9.54E-05
40	258459.4	4084944	2.67E-04	3.87E-03	2.85E-03	2.85E-03	1.59E-03	4.06E-05	5.89E-04	4.45E-04	4.45E-04	2.45E-04	2.20E-05	3.19E-04	1.98E-04	1.98E-04	9.80E-05
41	258458.6	4084919	2.64E-04	3.82E-03	2.81E-03	2.81E-03	1.57E-03	4.01E-05	5.82E-04	4.39E-04	4.39E-04	2.42E-04	2.18E-05	3.15E-04	1.96E-04	1.96E-04	9.68E-05
42	258506.4	4085137	6.69E-05	9.67E-04	7.13E-04	7.13E-04	3.97E-04	1.02E-05	1.47E-04	1.11E-04	1.11E-04	6.12E-05	5.51E-06	7.97E-05	4.95E-05	4.95E-05	2.45E-05
43	258498.4	4085158	6.18E-05	8.94E-04	6.59E-04	6.59E-04	3.67E-04	9.38E-06	1.36E-04	1.03E-04	1.03E-04	5.65E-05	5.09E-06	7.37E-05	4.58E-05	4.58E-05	2.26E-05
44	258490.4	4085180	5.71E-05	8.26E-04	6.09E-04	6.09E-04	3.40E-04	8.67E-06	1.26E-04	9.51E-05	9.51E-05	5.23E-05	4.71E-06	6.81E-05	4.23E-05	4.23E-05	2.09E-05
45	258482.4	4085201	5.30E-05	7.66E-04	5.65E-04	5.65E-04	3.15E-04	8.04E-06	1.17E-04	8.82E-05	8.82E-05	4.85E-05	4.37E-06	6.32E-05	3.92E-05	3.92E-05	1.94E-05
46	258453.7	4085232	5.22E-05	7.55E-04	5.56E-04	5.56E-04	3.10E-04	7.92E-06	1.15E-04	8.69E-05	8.69E-05	4.78E-05	4.30E-06	6.22E-05	3.87E-05	3.87E-05	1.91E-05
47	258433.1	4085241	5.52E-05	7.99E-04	5.89E-04	5.89E-04	3.28E-04	8.38E-06	1.22E-04	9.19E-05	9.19E-05	5.05E-05	4.55E-06	6.59E-05	4.09E-05	4.09E-05	2.02E-05
48	258412.4	4085251	5.83E-05	8.44E-04	6.22E-04	6.22E-04	3.47E-04	8.85E-06	1.29E-04	9.71E-05	9.71E-05	5.34E-05	4.81E-06	6.96E-05	4.32E-05	4.32E-05	2.14E-05
49	258391.8	4085260	6.15E-05	8.89E-04	6.55E-04	6.55E-04	3.65E-04	9.33E-06	1.35E-04	1.02E-04	1.02E-04	5.63E-05	5.07E-06	7.33E-05	4.55E-05	4.55E-05	2.25E-05
50	258514.4	4085116	7.23E-05	1.05E-03	7.71E-04	7.71E-04	4.30E-04	1.10E-05	1.59E-04	1.20E-04	1.20E-04	6.62E-05	5.96E-06	8.62E-05	5.35E-05	5.35E-05	2.65E-05
51	258513.7	4085091	8.46E-05	1.22E-03	9.02E-04	9.02E-04	5.03E-04	1.28E-05	1.86E-04	1.41E-04	1.41E-04	7.75E-05	6.98E-06	1.01E-04	6.27E-05	6.27E-05	3.10E-05
52	258513	4085066	9.95E-05	1.44E-03	1.06E-03	1.06E-03	5.91E-04	1.51E-05	2.19E-04	1.66E-04	1.66E-04	9.10E-05	8.20E-06	1.19E-04	7.37E-05	7.37E-05	3.65E-05
53	258512.2	4085041	1.16E-04	1.68E-03	1.24E-03	1.24E-03	6.90E-04	1.76E-05	2.56E-04	1.93E-04	1.93E-04	1.06E-04	9.57E-06	1.38E-04	8.60E-05	8.60E-05	4.26E-05
54	258511.5	4085017	1.33E-04	1.93E-03	1.42E-03	1.42E-03	7.92E-04	2.02E-05	2.94E-04	2.22E-04	2.22E-04	1.22E-04	1.10E-05	1.59E-04	9.87E-05	9.87E-05	4.89E-05
55	258510.8	4084992	1.49E-04	2.16E-03	1.59E-03	1.59E-03	8.87E-04	2.27E-05	3.29E-04	2.49E-04	2.49E-04	1.37E-04	1.23E-05	1.78E-04	1.11E-04	1.11E-04	5.47E-05
56	258510.1	4084967	1.63E-04	2.35E-03	1.73E-03	1.73E-03	9.66E-04	2.47E-05	3.58E-04	2.71E-04	2.71E-04	1.49E-04	1.34E-05	1.94E-04	1.20E-04	1.20E-04	5.96E-05
57	258509.3	4084942	1.72E-04	2.49E-03	1.83E-03	1.83E-03	1.02E-03	2.61E-05	3.79E-04	2.86E-04	2.86E-04	1.57E-04	1.42E-05	2.05E-04	1.27E-04	1.27E-04	6.31E-05
58	258508.6	4084918	1.77E-04	2.56E-03	1.89E-03	1.89E-03	1.05E-03	2.68E-05	3.90E-04	2.94E-04	2.94E-04	1.62E-04	1.46E-05	2.11E-04	1.31E-04	1.31E-04	6.48E-05
59	258556.8	4085135	5.12E-05	7.41E-04	5.46E-04	5.46E-04	3.05E-04	7.78E-06	1.13E-04	8.53E-05	8.53E-05	4.69E-05	4.22E-06	6.11E-05	3.80E-05	3.80E-05	1.88E-05
60	258541.5	4085175	4.54E-05	6.56E-04	4.84E-04	4.84E-04	2.70E-04	6.88E-06	9.99E-05	7.55E-05	7.55E-05	4.15E-05	3.74E-06	5.41E-05	3.36E-05	3.36E-05	1.66E-05
61	258526.2	4085216	4.01E-05	5.80E-04	4.28E-04	4.28E-04	2.38E-04	6.09E-06	8.84E-05	6.68E-05	6.68E-05	3.67E-05	3.31E-06	4.78E-05	2.97E-05	2.97E-05	1.47E-05
62	258491.3	4085265	3.74E-05	5.41E-04	3.99E-04	3.99E-04	2.22E-04	5.68E-06	8.24E-05	6.23E-05	6.23E-05	3.42E-05	3.08E-06	4.46E-05	2.77E-05	2.77E-05	1.37E-05
63	258452	4085284	4.10E-05	5.93E-04	4.37E-04	4.37E-04	2.44E-04	6.22E-06	9.03E-05	6.82E-05	6.82E-05	3.75E-05	3.38E-06	4.89E-05	3.04E-05	3.04E-05	1.50E-05
64	258412.6	4085302	4.46E-05	6.45E-04	4.76E-04	4.76E-04	2.65E-04	6.77E-06	9.83E-05	7.43E-05	7.43E-05	4.08E-05	3.68E-06	5.32E-05	3.30E-05	3.30E-05	1.64E-05
65	258563.7	4085090	6.16E-05	8.91E-04	6.57E-04	6.57E-04	3.66E-04	9.35E-06	1.36E-04	1.03E-04	1.03E-04	5.64E-05	5.08E-06	7.34E-05	4.56E-05	4.56E-05	2.26E-05
66	258562.9	4085065	7.01E-05	1.01E-03	7.47E-04	7.47E-04	4.17E-04	1.06E-05	1.54E-04	1.17E-04	1.17E-04	6.41E-05	5.78E-06	8.36E-05	5.19E-05	5.19E-05	2.57E-05
67	258562.2	4085040	7.97E-05	1.15E-03	8.49E-04	8.49E-04	4.73E-04	1.21E-05	1.76E-04	1.33E-04	1.33E-04	7.29E-05	6.57E-06	9.50E-05	5.90E-05	5.90E-05	2.92E-05
68	258561.5	4085015	8.99E-05	1.30E-03	9.59E-04	9.59E-04	5.34E-04	1.36E-05	1.98E-04	1.50E-04	1.50E-04	8.23E-05	7.41E-06	1.07E-04	6.66E-05	6.66E-05	3.30E-05
69	258560.8	4084990	1.00E-04	1.45E-03	1.07E-03	1.07E-03	5.96E-04	1.52E-05	2.21E-04	1.67E-04	1.67E-04	9.17E-05	8.26E-06	1.19E-04	7.42E-05	7.42E-05	3.67E-05
70	258560	4084966	1.10E-04	1.59E-03	1.17E-03	1.17E-03	6.53E-04	1.67E-05	2.42E-04	1.83E-04	1.83E-04	1.01E-04	9.05E-06	1.31E-04	8.13E-05	8.13E-05	4.03E-05
71	258559.3	4084941	1.18E-04	1.71E-03	1.26E-03	1.26E-03	7.01E-04	1.79E-05	2.60E-04	1.96E-04	1.96E-04	1.08E-04	9.73E-06	1.41E-04	8.74E-05	8.74E-05	4.33E-05
72	258558.6	4084916	1.24E-04	1.80E-03	1.32E-03	1.32E-03	7.38E-04	1.88E-05	2.73E-04	2.07E-04	2.07E-04	1.14E-04	1.02E-05	1.48E-04	9.19E-05	9.19E-05	4.55E-05
73	258606	4085135	4.05E-05	5.85E-04	4.31E-04	4.31E-04	2.40E-04	6.14E-06	8.91E-05	6.73E-05	6.73E-05	3.70E-05	3.33E-06	4.82E-05	3.00E-05	3.00E-05	1.48E-05
74	258597.7	4085157	3.83E-05	5.54E-04	4.08E-04	4.08E-04	2.28E-04	5.81E-06	8.44E-05	6.38E-05	6.38E-05	3.51E-05	3.16E-06	4.57E-05	2.84E-05	2.84E-05	1.40E-05
75	258589.3	4085179	3.62E-05	5.24E-04	3.86E-04	3.86E-04	2.15E-04	5.49E-06	7.98E-05	6.03E-05	6.03E-05	3.31E-05	2.98E-06	4.32E-05	2.68E-05	2.68E-05	1.33E-05
76	258581	4085202	3.42E-05	4.94E-04	3.64E-04	3.64E-04	2.03E-04	5.18E-06	7.53E-05	5.69E-05	5.69E-05	3.13E-05	2.82E-06	4.07E-05	2.53E-05	2.53E-05	1.25E-05
77	258572.6	4085224	3.22E-05	4.66E-04	3.44E-04	3.44E-04	1.92E-04	4.89E-06	7.10E-05	5.37E-05	5.37E-05	2.95E-05	2.66E-06	3.84E-05	2.39E-05	2.39E-05	1.18E-05
78	258564.3	4085246	3.05E-05	4.40E-04	3.25E-04	3.25E-04	1.81E-04	4.62E-06	6.71E-05	5.07E-05	5.07E-05	2.79E-05	2.51E-06	3.63E-05	2.26E-05	2.26E-05	1.12E-05
79	258556	4085268	2.88E-05	4.17E-04	3.07E-04	3.07E-04	1.71E-04	4.38E-06	6.35E-05	4.80E-05	4.80E-05	2.64E-05	2.38E-06	3.44E-05	2.13E-05	2.13E-05	1.06E-05
80	258526.1	4085300	2.85E-05	4.12E-04	3.04E-04	3.04E-04	1.69E-04	4.33E-06	6.28E-05	4.75E-05	4.75E-05	2.61E-05	2.35E-06	3.40E-05	2.11E-05	2.11E-05	1.05E-05
81	258504.6	4085310	2.98E-05	4.31E-04	3.18E-04	3.18E-04	1.77E-04	4.52E-06	6.56E-05	4.96E-05	4.96E-05	2.73E-05	2.46E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
82	258483.1	4085320	3.11E-05	4.50E-04	3.32E-04	3.32E-04	1.85E-04	4.73E-06	6.86E-05	5.18E-05	5.18E-05	2.85E-05	2.57E-06	3.71E-05	2.31E-05	2.31E-05	1.14E-05
83	258461.6	4085330	3.25E-05	4.70E-04	3.46E-04	3.46E-04	1.93E-04	4.93E-06	7.16E-05	5.41E-05	5.41E-05	2.97E-05	2.68E-06	3.87E-05	2.41E-05	2.41E-05	1.19E-05
84	258440.1	4085340	3.38E-05	4.89E-04	3.60E-04	3.60E-04	2.01E-04	5.13E-06	7.45E-05	5.63E-05	5.63E-05	3.09E-05	2.79E-06	4.03E-05	2.50E-05	2.50E-05	1.24E-05
85	258418.5	4085350	3.51E-05	5.08E-04	3.74E-04	3.74E-04	2.09E-04	5.33E-06	7.74E-05	5.84E-05	5.84E-05	3.21E-05	2.89E-06	4.19E-05	2.60E-05	2.60E-05	1.29E-05
86	258397	4085360	3.65E-05	5.28E-04	3.89E-04	3.89E-04	2.17E-04	5.54E-06	8.04E-05	6.07E-05	6.07E-05	3.34E-05	3.01E-06	4.35E-05	2.70E-05	2.70E-05	1.34E-05
87	258614.4	4085113	4.26E-05	6.16E-04	4.54E-04	4.54E-04	2.53E-04	6.47E-06	9.39E-05	7.09E-05	7.09E-05	3.90E-05	3.51E-06	5.08E-05	3.15E-05	3.15E-05	1.56E-05
88	258613.6	4085088	4.73E-05	6.84E-04	5.04E-04	5.04E-04	2.81E-04	7.18E-06	1.04E-04	7.87E-05	7.87E-05	4.33E-05	3.90E-06	5.64E-05	3.50E-05	3.50E-05	1.73E-05
89	258612.9	4085063	5.27E-05	7.62E-04	5.61E-04	5.61E-04	3.13E-04	7.99E-06	1.16E-04	8.76E-05	8.76E-05	4.82E-05	4.34E-06	6.28E-05	3.90E-05	3.90E-05	1.93E-05
90	258612.2	4085039	5.87E-05	8.48E-04	6.25E-04	6.25E-04	3.49E-04	8.90E-06	1.29E-04	9.76E-05	9.76E-05	5.37E-05	4.83E-06	6.99E-05	4.34E-05	4.34E-05	2.15E-05
91	258611.5	4085014	6.52E-05	9.43E-04	6.95E-04	6.95E-04	3.87E-04	9.89E-06	1.44E-04	1.08E-04	1.08E-04	5.96E-05	5.37E-06	7.77E-05	4.83E-05	4.83E-05	2.39E-05
92	258610.7	4084989	7.20E-05	1.04E-03	7.67E-04	7.67E-04	4.28E-04	1.09E-05	1.59E-04	1.20E-04	1.20E-04	6.59E-05	5.93E-06	8.58E-05	5.33E-05	5.33E-05	2.64E-05
93	258610	4084964	7.87E-05	1.14E-03	8.39E-04	8.39E-04	4.68E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.20E-05	6.49E-06	9.38E-05	5.83E-05	5.83E-05	2.89E-05
94	258609.3	4084940	8.50E-05	1.23E-03	9.07E-04	9.07E-04	5.05E-04	1.29E-05	1.87E-04	1.42E-04	1.42E-04	7.78E-05	7.01E-06	1.01E-04	6.30E-05	6.30E-05	3.12E-05
95	258608.6	4084915	9.05E-05	1.31E-03	9.64E-04	9.64E-04	5.38E-04	1.37E-05	1.99E-04	1.51E-04	1.51E-04	8.28E-05	7.46E-06	1.08E-04	6.70E-05	6.70E-05	3.32E-05
96	258656.3	4085133	3.31E-05	4.78E-04	3.52E-04	3.52E-04	1.96E-04	5.02E-06	7.28E-05	5.50E-05	5.50E-05	3.02E-05	2.72E-06	3.94E-05	2.45E-05	2.45E-05	1.21E-05
97	258648.3	4085154	3.17E-05	4.58E-04	3.37E-04	3.37E-04	1.88E-04	4.80E-06	6.97E-05	5.27E-05	5.27E-05	2.90E-05	2.61E-06	3.77E-05	2.34E-05	2.34E-05	1.16E-05
98	258640.3	4085175	3.02E-05	4.37E-04	3.22E-04	3.22E-04	1.80E-04	4.59E-06	6.66E-05	5.03E-05	5.03E-05	2.77E-05	2.49E-06	3.60E-05	2.24E-05	2.24E-05	1.11E-05
99	258632.3	4085197	2.88E-05	4.17E-04	3.07E-04	3.07E-04	1.71E-04	4.37E-06	6.35E-05	4.80E-05	4.80E-05	2.64E-05	2.38E-06	3.44E-05	2.13E-05	2.13E-05	1.06E-05

100	258624.3	4085218	2.75E-05	3.97E-04	2.93E-04	2.93E-04	1.63E-04	4.17E-06	6.05E-05	4.57E-05	4.57E-05	2.51E-05	2.26E-06	3.27E-05	2.03E-05	2.03E-05	1.01E-05
101	258616.3	4085239	2.61E-05	3.78E-04	2.79E-04	2.79E-04	1.55E-04	3.97E-06	5.76E-05	4.35E-05	4.35E-05	2.39E-05	2.16E-06	3.12E-05	1.94E-05	1.94E-05	9.59E-06
102	258608.3	4085260	2.49E-05	3.60E-04	2.66E-04	2.66E-04	1.48E-04	3.78E-06	5.49E-05	4.15E-05	4.15E-05	2.28E-05	2.05E-06	2.97E-05	1.84E-05	1.84E-05	9.13E-06
103	258600.3	4085282	2.38E-05	3.44E-04	2.53E-04	2.53E-04	1.41E-04	3.61E-06	5.24E-05	3.95E-05	3.95E-05	2.17E-05	1.96E-06	2.83E-05	1.76E-05	1.76E-05	8.71E-06
104	258592.3	4085303	2.27E-05	3.28E-04	2.42E-04	2.42E-04	1.35E-04	3.45E-06	5.00E-05	3.78E-05	3.78E-05	2.08E-05	1.87E-06	2.71E-05	1.68E-05	1.68E-05	8.32E-06
105	258563.6	4085334	2.25E-05	3.25E-04	2.40E-04	2.40E-04	1.34E-04	3.41E-06	4.96E-05	3.74E-05	3.74E-05	2.06E-05	1.85E-06	2.68E-05	1.67E-05	1.67E-05	8.25E-06
106	258542.9	4085343	2.33E-05	3.37E-04	2.49E-04	2.49E-04	1.39E-04	3.54E-06	5.14E-05	3.88E-05	3.88E-05	2.13E-05	1.92E-06	2.78E-05	1.73E-05	1.73E-05	8.55E-06
107	258522.3	4085353	2.42E-05	3.50E-04	2.58E-04	2.58E-04	1.44E-04	3.68E-06	5.34E-05	4.03E-05	4.03E-05	2.22E-05	2.00E-06	2.89E-05	1.79E-05	1.79E-05	8.88E-06
108	258501.6	4085363	2.52E-05	3.64E-04	2.68E-04	2.68E-04	1.50E-04	3.82E-06	5.55E-05	4.19E-05	4.19E-05	2.30E-05	2.07E-06	3.00E-05	1.86E-05	1.86E-05	9.23E-06
109	258481	4085372	2.61E-05	3.78E-04	2.78E-04	2.78E-04	1.55E-04	3.96E-06	5.75E-05	4.34E-05	4.34E-05	2.39E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.57E-06
110	258460.3	4085382	2.70E-05	3.90E-04	2.88E-04	2.88E-04	1.60E-04	4.10E-06	5.95E-05	4.49E-05	4.49E-05	2.47E-05	2.22E-06	3.22E-05	2.00E-05	2.00E-05	9.89E-06
111	258439.7	4085391	2.79E-05	4.03E-04	2.97E-04	2.97E-04	1.66E-04	4.23E-06	6.14E-05	4.64E-05	4.64E-05	2.55E-05	2.30E-06	3.32E-05	2.06E-05	2.06E-05	1.02E-05
112	258419	4085401	2.88E-05	4.16E-04	3.06E-04	3.06E-04	1.71E-04	4.36E-06	6.34E-05	4.79E-05	4.79E-05	2.63E-05	2.37E-06	3.43E-05	2.13E-05	2.13E-05	1.05E-05
113	258398.4	4085410	2.97E-05	4.29E-04	3.16E-04	3.16E-04	1.76E-04	4.51E-06	6.54E-05	4.94E-05	4.94E-05	2.72E-05	2.45E-06	3.54E-05	2.20E-05	2.20E-05	1.09E-05
114	258664.3	4085111	3.44E-05	4.98E-04	3.67E-04	3.67E-04	2.05E-04	5.23E-06	7.59E-05	5.73E-05	5.73E-05	3.15E-05	2.84E-06	4.11E-05	2.55E-05	2.55E-05	1.26E-05
115	258663.6	4085087	3.77E-05	5.45E-04	4.02E-04	4.02E-04	2.24E-04	5.72E-06	8.30E-05	6.27E-05	6.27E-05	3.45E-05	3.11E-06	4.49E-05	2.79E-05	2.79E-05	1.38E-05
116	258662.9	4085062	4.13E-05	5.97E-04	4.40E-04	4.40E-04	2.45E-04	6.27E-06	9.10E-05	6.87E-05	6.87E-05	3.78E-05	3.40E-06	4.92E-05	3.06E-05	3.06E-05	1.51E-05
117	258662.2	4085037	4.53E-05	6.55E-04	4.83E-04	4.83E-04	2.69E-04	6.88E-06	9.98E-05	7.54E-05	7.54E-05	4.15E-05	3.74E-06	5.40E-05	3.36E-05	3.36E-05	1.66E-05
118	258661.4	4085012	4.97E-05	7.19E-04	5.30E-04	5.30E-04	2.95E-04	7.54E-06	1.09E-04	8.27E-05	8.27E-05	4.55E-05	4.10E-06	5.92E-05	3.68E-05	3.68E-05	1.82E-05
119	258660.7	4084988	5.43E-05	7.86E-04	5.79E-04	5.79E-04	3.23E-04	8.25E-06	1.20E-04	9.04E-05	9.04E-05	4.97E-05	4.48E-06	6.48E-05	4.02E-05	4.02E-05	1.99E-05
120	258660	4084963	5.91E-05	8.55E-04	6.30E-04	6.30E-04	3.51E-04	8.97E-06	1.30E-04	9.84E-05	9.84E-05	5.41E-05	4.87E-06	7.05E-05	4.38E-05	4.38E-05	2.17E-05
121	258659.3	4084938	6.38E-05	9.23E-04	6.81E-04	6.81E-04	3.79E-04	9.69E-06	1.41E-04	1.06E-04	1.06E-04	5.84E-05	5.26E-06	7.61E-05	4.73E-05	4.73E-05	2.34E-05
122	258658.6	4084913	6.82E-05	9.87E-04	7.27E-04	7.27E-04	4.06E-04	1.04E-05	1.50E-04	1.14E-04	1.14E-04	6.24E-05	5.62E-06	8.14E-05	5.05E-05	5.05E-05	2.50E-05
123	258756.1	4085130	2.34E-05	3.38E-04	2.49E-04	2.49E-04	1.39E-04	3.55E-06	5.15E-05	3.89E-05	3.89E-05	2.14E-05	1.93E-06	2.78E-05	1.73E-05	1.73E-05	8.56E-06
124	258747.9	4085152	2.26E-05	3.27E-04	2.41E-04	2.41E-04	1.34E-04	3.43E-06	4.98E-05	3.76E-05	3.76E-05	2.07E-05	1.86E-06	2.69E-05	1.67E-05	1.67E-05	8.28E-06
125	258739.6	4085174	2.18E-05	3.16E-04	2.33E-04	2.33E-04	1.30E-04	3.31E-06	4.81E-05	3.63E-05	3.63E-05	2.00E-05	1.80E-06	2.60E-05	1.62E-05	1.62E-05	8.00E-06
126	258731.4	4085196	2.10E-05	3.04E-04	2.24E-04	2.24E-04	1.25E-04	3.19E-06	4.63E-05	3.50E-05	3.50E-05	1.92E-05	1.73E-06	2.51E-05	1.56E-05	1.56E-05	7.71E-06
127	258723.2	4085218	2.02E-05	2.93E-04	2.16E-04	2.16E-04	1.20E-04	3.07E-06	4.46E-05	3.37E-05	3.37E-05	1.85E-05	1.67E-06	2.41E-05	1.50E-05	1.50E-05	7.42E-06
128	258715	4085239	1.95E-05	2.81E-04	2.07E-04	2.07E-04	1.16E-04	2.95E-06	4.29E-05	3.24E-05	3.24E-05	1.78E-05	1.60E-06	2.32E-05	1.44E-05	1.44E-05	7.13E-06
129	258706.8	4085261	1.87E-05	2.70E-04	1.99E-04	1.99E-04	1.11E-04	2.84E-06	4.12E-05	3.11E-05	3.11E-05	1.71E-05	1.54E-06	2.23E-05	1.38E-05	1.38E-05	6.85E-06
130	258698.6	4085283	1.80E-05	2.60E-04	1.91E-04	1.91E-04	1.07E-04	2.73E-06	3.96E-05	2.99E-05	2.99E-05	1.64E-05	1.48E-06	2.14E-05	1.33E-05	1.33E-05	6.58E-06
131	258690.4	4085305	1.72E-05	2.49E-04	1.84E-04	1.84E-04	1.02E-04	2.62E-06	3.80E-05	2.87E-05	2.87E-05	1.58E-05	1.42E-06	2.06E-05	1.28E-05	1.28E-05	6.32E-06
132	258682.1	4085327	1.65E-05	2.39E-04	1.76E-04	1.76E-04	9.83E-05	2.51E-06	3.64E-05	2.75E-05	2.75E-05	1.51E-05	1.36E-06	1.97E-05	1.22E-05	1.22E-05	6.06E-06
133	258673.9	4085349	1.60E-05	2.31E-04	1.70E-04	1.70E-04	9.48E-05	2.42E-06	3.51E-05	2.66E-05	2.66E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.85E-06
134	258665.7	4085371	1.54E-05	2.22E-04	1.64E-04	1.64E-04	9.13E-05	2.33E-06	3.38E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.83E-05	1.14E-05	1.14E-05	5.63E-06
135	258636.3	4085402	1.53E-05	2.21E-04	1.63E-04	1.63E-04	9.09E-05	2.32E-06	3.37E-05	2.54E-05	2.54E-05	1.40E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.60E-06
136	258615.1	4085412	1.57E-05	2.27E-04	1.68E-04	1.68E-04	9.35E-05	2.39E-06	3.47E-05	2.62E-05	2.62E-05	1.44E-05	1.30E-06	1.88E-05	1.16E-05	1.16E-05	5.77E-06
137	258594	4085422	1.62E-05	2.35E-04	1.73E-04	1.73E-04	9.64E-05	2.46E-06	3.57E-05	2.70E-05	2.70E-05	1.48E-05	1.34E-06	1.93E-05	1.20E-05	1.20E-05	5.95E-06
138	258572.8	4085432	1.68E-05	2.42E-04	1.79E-04	1.79E-04	9.96E-05	2.54E-06	3.69E-05	2.79E-05	2.79E-05	1.53E-05	1.38E-06	2.00E-05	1.24E-05	1.24E-05	6.14E-06
139	258551.6	4085441	1.73E-05	2.51E-04	1.85E-04	1.85E-04	1.03E-04	2.63E-06	3.82E-05	2.88E-05	2.88E-05	1.59E-05	1.43E-06	2.07E-05	1.28E-05	1.28E-05	6.35E-06
140	258530.4	4085451	1.79E-05	2.59E-04	1.91E-04	1.91E-04	1.06E-04	2.72E-06	3.94E-05	2.98E-05	2.98E-05	1.64E-05	1.48E-06	2.13E-05	1.33E-05	1.33E-05	6.56E-06
141	258509.2	4085461	1.84E-05	2.67E-04	1.96E-04	1.96E-04	1.10E-04	2.80E-06	4.06E-05	3.07E-05	3.07E-05	1.69E-05	1.52E-06	2.20E-05	1.36E-05	1.36E-05	6.75E-06
142	258488.1	4085471	1.89E-05	2.74E-04	2.02E-04	2.02E-04	1.12E-04	2.87E-06	4.17E-05	3.15E-05	3.15E-05	1.73E-05	1.56E-06	2.26E-05	1.40E-05	1.40E-05	6.94E-06
143	258466.9	4085481	1.94E-05	2.81E-04	2.07E-04	2.07E-04	1.15E-04	2.95E-06	4.28E-05	3.23E-05	3.23E-05	1.78E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.11E-06
144	258445.7	4085490	1.99E-05	2.88E-04	2.12E-04	2.12E-04	1.18E-04	3.02E-06	4.39E-05	3.31E-05	3.31E-05	1.82E-05	1.64E-06	2.37E-05	1.47E-05	1.47E-05	7.30E-06
145	258424.5	4085500	2.04E-05	2.96E-04	2.18E-04	2.18E-04	1.21E-04	3.10E-06	4.50E-05	3.40E-05	3.40E-05	1.87E-05	1.68E-06	2.44E-05	1.51E-05	1.51E-05	7.49E-06
146	258403.3	4085510	2.10E-05	3.04E-04	2.24E-04	2.24E-04	1.25E-04	3.19E-06	4.63E-05	3.49E-05	3.49E-05	1.92E-05	1.73E-06	2.50E-05	1.55E-05	1.55E-05	7.69E-06
147	258764.3	4085108	2.41E-05	3.49E-04	2.57E-04	2.57E-04	1.43E-04	3.66E-06	5.31E-05	4.01E-05	4.01E-05	2.21E-05	1.99E-06	2.87E-05	1.79E-05	1.79E-05	8.84E-06
148	258763.6	4085084	2.58E-05	3.73E-04	2.75E-04	2.75E-04	1.53E-04	3.92E-06	5.69E-05	4.30E-05	4.30E-05	2.36E-05	2.13E-06	3.08E-05	1.91E-05	1.91E-05	9.46E-06
149	258762.8	4085059	2.77E-05	4.01E-04	2.95E-04	2.95E-04	1.65E-04	4.21E-06	6.11E-05	4.61E-05	4.61E-05	2.54E-05	2.28E-06	3.30E-05	2.05E-05	2.05E-05	1.02E-05
150	258762.1	4085034	2.98E-05	4.31E-04	3.17E-04	3.17E-04	1.77E-04	4.52E-06	6.56E-05	4.96E-05	4.96E-05	2.73E-05	2.45E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
151	258761.4	4085009	3.20E-05	4.63E-04	3.41E-04	3.41E-04	1.90E-04	4.86E-06	7.06E-05	5.33E-05	5.33E-05	2.93E-05	2.64E-06	3.82E-05	2.37E-05	2.37E-05	1.17E-05
152	258760.7	4084985	3.44E-05	4.98E-04	3.67E-04	3.67E-04	2.05E-04	5.23E-06	7.59E-05	5.73E-05	5.73E-05	3.15E-05	2.84E-06	4.11E-05	2.55E-05	2.55E-05	1.26E-05
153	258760	4084960	3.70E-05	5.35E-04	3.95E-04	3.95E-04	2.20E-04	5.62E-06	8.15E-05	6.16E-05	6.16E-05	3.39E-05	3.05E-06	4.41E-05	2.74E-05	2.74E-05	1.36E-05
154	258759.2	4084935	3.97E-05	5.74E-04	4.23E-04	4.23E-04	2.36E-04	6.02E-06	8.74E-05	6.61E-05	6.61E-05	3.63E-05	3.27E-06	4.73E-05	2.94E-05	2.94E-05	1.45E-05
155	258758.5	4084910	4.24E-05	6.13E-04	4.52E-04	4.52E-04	2.52E-04	6.43E-06	9.34E-05	7.05E-05	7.05E-05	3.88E-05	3.49E-06	5.05E-05	3.14E-05	3.14E-05	1.55E-05
156	258855.9	4085128	1.76E-05	2.54E-04	1.87E-04	1.87E-04	1.04E-04	2.67E-06	3.87E-05	2.93E-05	2.93E-05	1.61E-05	1.45E-06	2.10E-05	1.30E-05	1.30E-05	6.44E-06
157	258847.6	4085150	1.71E-05	2.48E-04	1.83E-04	1.83E-04	1.02E-04	2.60E-06	3.77E-05	2.85E-05	2.85E-05	1.57E-05	1.41E-06	2.04E-05	1.27E-05	1.27E-05	6.28E-06
158	258839.2	4085172	1.66E-05	2.41E-04	1.77E-04	1.77E-04	9.89E-05	2.53E-06	3.67E-05	2.77E-05	2.77E-05	1.52E-05	1.37E-06	1.98E-05	1.23E-05	1.23E-05	6.10E-06
159	258830.9	4085194	1.61E-05	2.33E-04	1.72E-04	1.72E-04	9.59E-05	2.45E-06	3.56E-05	2.69E-05	2.69E-05	1.48E-05	1.33E-06	1.92E-05	1.20E-05	1.20E-05	5.92E-06
160	258822.5	4085216	1.56E-05	2.26E-04	1.67E-04	1.67E-04	9.29E-05	2.37E-06	3.45E-05	2.60E-05	2.60E-05	1.43E-05	1.29E-06	1.86E-05	1.16E-05	1.16E-05	5.73E-06
161	258814.2	4085239	1.51E-05	2.19E-04	1.61E-04	1.61E-04	9.00E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.80E-05	1.12E-05	1.12E-05	5.55E-06
162	258805.8	4085261	1.47E-05	2.12E-04	1.56E-04	1.56E-04	8.71E-05	2.22E-06	3.23E-05	2.44E-05	2.44E-05	1.34E-05	1.21E-06	1.75E-05	1.09E-05	1.09E-05	5.37E-06
163	258797.5	4085283	1.42E-05	2.05E-04	1.51E-04	1.51E-04	8.43E-05	2.15E-06	3.12E-05	2.36E-05	2.36E-05	1.30E-05	1.17E-06	1.69E-05	1.05E-05	1.05E-05	5.20E-06
164	258789.2	4085305	1.37E-05	1.98E-04	1.46E-04	1.46E-04	8.14E-05	2.08E-06	3.02E-05	2.28E-05	2.28E-05	1.25E-05	1.13E-06	1.63E-05	1.01E-05	1.01E-05	5.02E-06
165	258780.8	4085327	1.32E-05	1.91E-04	1.40E-04	1.40E-04	7.83E-05	2.00E-06	2.90E-05	2.19E-05	2.19E-05	1.21E-05	1.09E-06	1.57E-05	9.76E-06	9.76E-06	4.83E-06
166	258772.5	4085350	1.27E-05	1.84E-04	1.36E-04	1.36E-04	7.57E-05	1.93E-06	2.81E-05	2.12E-05	2.12E-05	1.17E-05	1.05E-06	1.52E-05	9.43E-06	9.43E-06	4.67E-06
167	258764.1	4085372	1.23E-05	1.78E-04	1.31E-04	1.31E-04	7.33E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.13E-06	9.13E-06	4.52E-06
168	258755.8	4085394	1.19E-05	1.73E-04	1.27E-04	1.27E-04	7.09E-05	1.81E-06	2.63E-05	1.99E-05	1.99E-05	1.09E-05	9.84E-07	1.42E-05	8.84E-06	8.84E-06	4.38E-06
169	258747.4	4085416	1.16E-05	1.67E-04	1.23E-04	1.23E-04	6.88E-05	1.76E-06	2.55E-05	1.93E-05	1.93E-05	1.06E-05	9.54E-07	1.38E-05	8.57E-06	8.57E-06	4.24E-06
170	258739.1	4085438	1.12E-05	1.62E-04	1.20E-04	1.20E-04	6.67E-05	1.70E-06	2.47E-05	1.87E-05	1.87E-05	1.03E-05	9.26E-07	1.34E-05	8.32E-06	8.32E-06	4.12E-06
171	258709.2	4085470	1.12E-05	1.61E-04	1.19E-04	1.19E-04	6.63E-05	1.69E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.19E-07	1.33E-05	8.26E-06	8.26E-06	4.09E-06
172	258687.7	4085480	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.78E-05	1.73E-06	2.51E-05	1.90E-05	1.90E-05	1.04E-05	9.40E-07	1.36E-05	8.45E-06	8.45E-06	4.18E-06
173	258666.2	4085490	1.17E-05	1.69E-04	1.25E-04	1.25E-04	6.95E-05	1.77E-06	2.58E-05	1.95E-05	1.95E-05	1.07E-05	9.64E-07	1.39E-05	8.66E-06	8.66E-06	4.29E-06
174	258644.7	4085500	1.20E-05	1.74E-04	1.28E-04	1.28E-04	7.14E-05	1.82E-06	2.65E-05	2.00E-05	2.00E-05	1.10E-05	9.90E-07	1.43E-05	8.89E-06	8.89E-06	4.40E-06
175	258623.2	4085510	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.15E-06	9.15E-06	4.53E-06
176	258601.7	4085520	1.27E-05	1.84E-04	1.36E-04	1.36E-04	7.57E-05	1.93E-06	2.81E-05	2.12E-05	2.12E-05	1.17E-05	1.05E-06	1.52E-05	9.44E-06	9.44E-06	4.67E-06
177	258580.2	4085530	1.31E-05	1.90E-04	1.40E-04	1.40E-04	7.81E-05	1.99E-06	2.89E-05	2.19E-05	2.19E-05	1.20E-05	1.08E-06	1.57E-05	9.73E-06	9.73E-06	4.82E-06
178	258558.7	4085540	1.35E-05	1.96E-04	1.44E-04	1.44E-04	8.05E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.12E-06	1.61E-05	1.00E-05	1.00E-05	4.96E-06
179	258537.2	4085550	1.39E-05	2.01E-04	1.48E-04	1.48E-04	8.26E-05	2.11E-06	3.06E-05	2.31E-05	2.31E-05	1.27E-05	1.15E-06	1.66E-05	1.03E-05	1.03E-05	5.10E-06
180	258515.7	4085560	1.42E-05	2.06E-04	1.51E-04	1.51E-04	8.45E-05	2.16E-06	3.13E-05	2.37E-05	2.37E-05	1.30E-05	1.17E-06	1.69E-05	1.05E-05	1.05E-05	5.21E-06
181	258494.1	4085570	1.45E-05	2.10E-04	1.55E-04	1.55E-04	8.62E-05	2.20E-06	3.20E-05	2.41E-05	2.41E-05	1.33E-05	1.20E-06	1.73E-05	1.07E-05	1.07E-05	5.32E-06
182	258472.6	4085580	1.48E-05	2.14E-04	1.58E-04	1.58E-04	8.81E-05	2.25E-06	3.26E-05	2.47E-05	2.47E-05	1.36E-05	1.22E-06	1.77E-05	1.10E-05	1.10E-05	5.43E-06
183	258451.1	4085590	1.52E-05	2.19E-04	1.62E-04	1.62E-04	9.01E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.81E-05	1.12E-05	1.12E-05	5.55E-06
184	258429.6	4085600	1.55E-05	2.24E-04	1.65E-04	1.65E-04	9.22E-05	2.35E-06	3.42E-05	2.58E-05	2.58E-05	1.42E-05	1.28E-06	1.85E-05	1.15E-05	1.15E-05	5.69E-06
185	258408.1	4085610	1.59E-05	2.30E-04	1.69E-04	1.69E-04	9.45E-05	2.41E-06	3.50E-05	2.65E-05	2.65E-05	1.45E-05	1.31E-06	1.89E-05	1.18E-05	1.18E-05	5.83E-06
186	258864.3	4085106	1.80E-05	2.61E-04	1.92E-04	1.92E-04	1.07E-04	2.73E-06	3.97E-05	3.00E-05	3.00E-05	1.65E-05	1.49E-06	2.15E-05	1.33E-05	1.33E-05	6.60E-06
187	258863.5	4085081	1.90E-05	2.75E-04	2.03E-04	2.03E-04	1.13E-04	2.89E-06	4.19E-05	3.17E-05	3.17E-05	1.74E-05	1.57E-06	2.27E-05	1.41E-05	1.41E-05	6.98E-06
188	258862.8	4085056	2.01E-05	2.91E-04	2.15E-04	2.15E-04	1.20E-04	3.06E-06	4.44E-05	3.35E-05	3.35E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.38E-06
189	258862.1	4085031	2.13E-05	3.09E-04	2.28E-04	2.28E-04	1.27E-04	3.24E-06	4.70E-05	3.55E-05	3.55E-05	1.95E-05	1.76E-06	2.55E-05	1.58E-05	1.58E-05	7.83E-06
190	258861.4	4085007	2.27E-05	3.28E-04	2.41E-04	2.41E-04	1.35E-04	3.44E-06	4.99E-05	3.77E-05	3.77E-05	2.07E-05	1.87E-06	2.70E-05	1.68E-05	1.68E-05	8.30E-06
191	258860.6	4084982	2.41E-05	3.48E-04	2.57E-04	2.57E-04	1.43E-04	3.65E-06	5.30E-05	4.01E-05	4.01E-05	2.20E-05	1.98E-06	2.87E-05	1.78E-05	1.78E-05	8.82E-06
192	258859.9	4084957	2.56E-05	3.70E-04	2.73E-04	2.73E-04	1.52E-04	3.88E-06	5.64E-05	4.26E-05	4.26E-05	2.34E-05	2.11E-06	3.05E-05	1.89E-05	1.89E-05	9.38E-06
193	258859.2	4084932	2.72E-05	3.93E-04	2.90E-04	2.90E-04	1.62E-04	4.13E-06	5.99E-05	4.53E-05	4.53E-05	2.49E-05	2.24E-06	3.24E-05	2.01E-05	2.01E-05	9.97E-06
194	258858.5	4084907	2.89E-05	4.18E-04	3.08E-04	3.08E-04	1.72E-04	4.38E-06	6.36E-05	4.81E-05	4.81E-05	2.64E-05	2.38E-06	3.44E-05	2.14E-05	2.14E-05	1.06E-05
195	258955.8	4085125	1.39E-05	2.00E-04	1.48E-04	1.48E-04	8.23E-05	2.10E-06	3.05E-05	2.31E-05	2.31E-05	1.27E-05	1.14E-06	1.65E-05	1.03E-05	1.03E-05	5.08E-06
196	258947.3	4085147	1.36E-05	1.96E-04	1.45E-04	1.45E-04	8.06E-05	2.06E-06	2.99E-05	2.26E-05	2.26E-05	1.24E-05	1.12E-06	1.62E-05	1.00E-05	1.00E-05	4.97E-06
197	258938.9	4085170	1.32E-05	1.92E-04	1.41E-04	1.41E-04	7.87E-05	2.01E-06	2.92E-05	2.20E-05	2.20E-05	1.21E-05	1.09E-06	1.58E-05	9.81E-06	9.81E-06	4.85E-06
198	258930.5	4085192	1.29E-05	1.87E-04	1.38E-04	1.38E-04	7.67E-05	1.96E-06	2.84E-05	2.15E-05	2.15E-05	1.18E-05	1.06E-06	1.54E-05	9.56E-06	9.56E-06	4.73E-06
199	258922.1	4085215	1.26E-05	1.82E-04	1.34E-04	1.34E-04	7.46E-05	1.91E-06	2.77E-05	2.09E-05	2.09E-05	1.15E-05	1.04E-06	1.50E-05	9.30E-06	9.30E-06	4.60E-06
200	258913.6	4085237	1.22E-05	1.77E-04	1.30E-04	1.30E-04	7.26E-05	1.85E-06	2.69E-05	2.03E-05	2.03E-05	1.12E-05	1.01E-06	1.46E-05	9.04E-06	9.04E-06	4.47E-06
201	258905.2	4085260	1.19E-05	1.72E-04	1.26E-04	1.26E-04	7.05E-05	1.80E-06	2.61E-05	1.97E-05	1.97E-05	1.09E-05	9.78E-07	1.41E-05	8.79E-06	8.79E-06	4.35E-06
202	258896.8	4085282	1.15E-05	1.66E-04	1.23E-04	1.23E-04	6.83E-05	1.75E-06	2.53E-05	1.91E-05	1.91E-05	1.05E-05	9.48E-07	1.37E-05	8.52E-06	8.52E-06	4.22E-06

203	258888.3	4085304	1.11E-05	1.61E-04	1.19E-04	1.19E-04	6.62E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.18E-07	1.33E-05	8.25E-06	8.25E-06	4.08E-06
204	258879.9	4085327	1.08E-05	1.57E-04	1.16E-04	1.16E-04	6.44E-05	1.65E-06	2.39E-05	1.80E-05	1.80E-05	9.92E-06	8.94E-07	1.29E-05	8.03E-06	8.03E-06	3.97E-06
205	258871.5	4085349	1.05E-05	1.53E-04	1.12E-04	1.12E-04	6.27E-05	1.60E-06	2.32E-05	1.76E-05	1.76E-05	9.65E-06	8.69E-07	1.26E-05	7.81E-06	7.81E-06	3.87E-06
206	258863	4085372	1.03E-05	1.48E-04	1.09E-04	1.09E-04	6.10E-05	1.56E-06	2.26E-05	1.71E-05	1.71E-05	9.38E-06	8.45E-07	1.22E-05	7.60E-06	7.60E-06	3.76E-06
207	258854.6	4085394	9.97E-06	1.44E-04	1.06E-04	1.06E-04	5.93E-05	1.51E-06	2.20E-05	1.66E-05	1.66E-05	9.12E-06	8.22E-07	1.19E-05	7.38E-06	7.38E-06	3.65E-06
208	258846.2	4085416	9.69E-06	1.40E-04	1.03E-04	1.03E-04	5.76E-05	1.47E-06	2.14E-05	1.61E-05	1.61E-05	8.87E-06	7.99E-07	1.16E-05	7.18E-06	7.18E-06	3.55E-06
209	258837.7	4085439	9.43E-06	1.36E-04	1.00E-04	1.00E-04	5.60E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.63E-06	7.77E-07	1.12E-05	6.98E-06	6.98E-06	3.46E-06
210	258829.3	4085461	9.17E-06	1.33E-04	9.78E-05	9.78E-05	5.45E-05	1.39E-06	2.02E-05	1.53E-05	1.53E-05	8.39E-06	7.56E-07	1.09E-05	6.79E-06	6.79E-06	3.36E-06
211	258820.9	4085484	8.93E-06	1.29E-04	9.52E-05	9.52E-05	5.31E-05	1.36E-06	1.97E-05	1.49E-05	1.49E-05	8.18E-06	7.36E-07	1.07E-05	6.62E-06	6.62E-06	3.27E-06
212	258812.4	4085506	8.71E-06	1.26E-04	9.29E-05	9.29E-05	5.18E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.97E-06	7.18E-07	1.04E-05	6.45E-06	6.45E-06	3.19E-06
213	258782.3	4085539	8.66E-06	1.25E-04	9.24E-05	9.24E-05	5.15E-05	1.31E-06	1.91E-05	1.44E-05	1.44E-05	7.93E-06	7.14E-07	1.03E-05	6.42E-06	6.42E-06	3.18E-06
214	258760.5	4085549	8.83E-06	1.28E-04	9.41E-05	9.41E-05	5.25E-05	1.34E-06	1.95E-05	1.47E-05	1.47E-05	8.08E-06	7.28E-07	1.05E-05	6.54E-06	6.54E-06	3.24E-06
215	258738.8	4085559	9.01E-06	1.30E-04	9.60E-05	9.60E-05	5.35E-05	1.37E-06	1.98E-05	1.50E-05	1.50E-05	8.24E-06	7.43E-07	1.07E-05	6.67E-06	6.67E-06	3.30E-06
216	258717.1	4085569	9.20E-06	1.33E-04	9.81E-05	9.81E-05	5.47E-05	1.40E-06	2.03E-05	1.53E-05	1.53E-05	8.42E-06	7.59E-07	1.10E-05	6.82E-06	6.82E-06	3.37E-06
217	258695.3	4085579	9.42E-06	1.36E-04	1.00E-04	1.00E-04	5.60E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.62E-06	7.76E-07	1.12E-05	6.98E-06	6.98E-06	3.45E-06
218	258673.6	4085589	9.66E-06	1.40E-04	1.03E-04	1.03E-04	5.74E-05	1.47E-06	2.13E-05	1.61E-05	1.61E-05	8.84E-06	7.97E-07	1.15E-05	7.16E-06	7.16E-06	3.54E-06
219	258651.9	4085599	9.93E-06	1.44E-04	1.06E-04	1.06E-04	5.90E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.08E-06	8.18E-07	1.18E-05	7.35E-06	7.35E-06	3.64E-06
220	258630.1	4085609	1.02E-05	1.48E-04	1.09E-04	1.09E-04	6.06E-05	1.55E-06	2.25E-05	1.70E-05	1.70E-05	9.33E-06	8.41E-07	1.22E-05	7.55E-06	7.55E-06	3.74E-06
221	258608.4	4085619	1.05E-05	1.51E-04	1.12E-04	1.12E-04	6.22E-05	1.59E-06	2.31E-05	1.74E-05	1.74E-05	9.58E-06	8.63E-07	1.25E-05	7.75E-06	7.75E-06	3.84E-06
222	258586.6	4085629	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.37E-05	1.63E-06	2.36E-05	1.78E-05	1.78E-05	9.80E-06	8.83E-07	1.28E-05	7.93E-06	7.93E-06	3.93E-06
223	258564.9	4085639	1.10E-05	1.59E-04	1.17E-04	1.17E-04	6.51E-05	1.66E-06	2.42E-05	1.82E-05	1.82E-05	1.00E-05	9.04E-07	1.31E-05	8.12E-06	8.12E-06	4.02E-06
224	258543.2	4085649	1.12E-05	1.62E-04	1.19E-04	1.19E-04	6.64E-05	1.70E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.21E-07	1.33E-05	8.27E-06	8.27E-06	4.09E-06
225	258521.4	4085659	1.13E-05	1.64E-04	1.21E-04	1.21E-04	6.74E-05	1.72E-06	2.50E-05	1.89E-05	1.89E-05	1.04E-05	9.35E-07	1.35E-05	8.40E-06	8.40E-06	4.16E-06
226	258499.7	4085669	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.89E-05	1.76E-06	2.55E-05	1.93E-05	1.93E-05	1.06E-05	9.55E-07	1.38E-05	8.58E-06	8.58E-06	4.25E-06
227	258478	4085679	1.18E-05	1.71E-04	1.26E-04	1.26E-04	7.02E-05	1.79E-06	2.60E-05	1.97E-05	1.97E-05	1.08E-05	9.74E-07	1.41E-05	8.75E-06	8.75E-06	4.33E-06
228	258456.2	4085689	1.20E-05	1.74E-04	1.28E-04	1.28E-04	7.15E-05	1.83E-06	2.65E-05	2.00E-05	2.00E-05	1.10E-05	9.92E-07	1.43E-05	8.91E-06	8.91E-06	4.41E-06
229	258434.5	4085699	1.23E-05	1.78E-04	1.31E-04	1.31E-04	7.31E-05	1.87E-06	2.71E-05	2.05E-05	2.05E-05	1.13E-05	1.01E-06	1.47E-05	9.11E-06	9.11E-06	4.51E-06
230	258412.8	4085709	1.26E-05	1.82E-04	1.34E-04	1.34E-04	7.48E-05	1.91E-06	2.77E-05	2.10E-05	2.10E-05	1.15E-05	1.04E-06	1.50E-05	9.32E-06	9.32E-06	4.61E-06
231	258964.2	4085103	1.41E-05	2.04E-04	1.51E-04	1.51E-04	8.39E-05	2.14E-06	3.11E-05	2.35E-05	2.35E-05	1.29E-05	1.16E-06	1.68E-05	1.05E-05	1.05E-05	5.18E-06
232	258963.5	4085078	1.48E-05	2.14E-04	1.57E-04	1.57E-04	8.78E-05	2.24E-06	3.25E-05	2.46E-05	2.46E-05	1.35E-05	1.22E-06	1.76E-05	1.09E-05	1.09E-05	5.41E-06
233	258962.8	4085053	1.55E-05	2.24E-04	1.65E-04	1.65E-04	9.19E-05	2.35E-06	3.41E-05	2.57E-05	2.57E-05	1.42E-05	1.27E-06	1.84E-05	1.15E-05	1.15E-05	5.67E-06
234	258962	4085028	1.62E-05	2.35E-04	1.73E-04	1.73E-04	9.65E-05	2.46E-06	3.58E-05	2.70E-05	2.70E-05	1.49E-05	1.34E-06	1.94E-05	1.20E-05	1.20E-05	5.95E-06
235	258961.3	4085004	1.71E-05	2.47E-04	1.82E-04	1.82E-04	1.01E-04	2.59E-06	3.76E-05	2.84E-05	2.84E-05	1.56E-05	1.41E-06	2.03E-05	1.26E-05	1.26E-05	6.26E-06
236	258960.6	4084979	1.80E-05	2.60E-04	1.92E-04	1.92E-04	1.07E-04	2.73E-06	3.96E-05	2.99E-05	2.99E-05	1.64E-05	1.48E-06	2.14E-05	1.33E-05	1.33E-05	6.59E-06
237	258959.9	4084954	1.89E-05	2.74E-04	2.02E-04	2.02E-04	1.13E-04	2.88E-06	4.17E-05	3.15E-05	3.15E-05	1.73E-05	1.56E-06	2.26E-05	1.40E-05	1.40E-05	6.95E-06
238	258959.2	4084929	2.00E-05	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.03E-06	4.41E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.38E-05	1.48E-05	1.48E-05	7.33E-06
239	258958.4	4084905	2.11E-05	3.05E-04	2.25E-04	2.25E-04	1.25E-04	3.20E-06	4.65E-05	3.51E-05	3.51E-05	1.93E-05	1.74E-06	2.51E-05	1.56E-05	1.56E-05	7.73E-06
240	259055.7	4085122	1.13E-05	1.63E-04	1.20E-04	1.20E-04	6.71E-05	1.71E-06	2.49E-05	1.88E-05	1.88E-05	1.03E-05	9.31E-07	1.35E-05	8.36E-06	8.36E-06	4.14E-06
241	259047.2	4085145	1.11E-05	1.61E-04	1.18E-04	1.18E-04	6.60E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.15E-07	1.32E-05	8.22E-06	8.22E-06	4.07E-06
242	259038.7	4085167	1.09E-05	1.58E-04	1.16E-04	1.16E-04	6.47E-05	1.65E-06	2.40E-05	1.81E-05	1.81E-05	9.97E-06	8.98E-07	1.30E-05	8.07E-06	8.07E-06	3.99E-06
243	259030.2	4085190	1.06E-05	1.54E-04	1.13E-04	1.13E-04	6.32E-05	1.61E-06	2.34E-05	1.77E-05	1.77E-05	9.73E-06	8.77E-07	1.27E-05	7.88E-06	7.88E-06	3.90E-06
244	259021.7	4085213	1.04E-05	1.50E-04	1.10E-04	1.10E-04	6.15E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.48E-06	8.53E-07	1.23E-05	7.67E-06	7.67E-06	3.80E-06
245	259013.2	4085235	1.01E-05	1.46E-04	1.08E-04	1.08E-04	5.99E-05	1.53E-06	2.22E-05	1.68E-05	1.68E-05	9.23E-06	8.31E-07	1.20E-05	7.47E-06	7.47E-06	3.70E-06
246	259004.7	4085258	9.82E-06	1.42E-04	1.05E-04	1.05E-04	5.84E-05	1.49E-06	2.16E-05	1.63E-05	1.63E-05	8.99E-06	8.10E-07	1.17E-05	7.27E-06	7.27E-06	3.60E-06
247	258996.2	4085280	9.57E-06	1.38E-04	1.02E-04	1.02E-04	5.69E-05	1.45E-06	2.11E-05	1.59E-05	1.59E-05	8.76E-06	7.89E-07	1.14E-05	7.09E-06	7.09E-06	3.51E-06
248	258987.7	4085303	9.33E-06	1.35E-04	9.95E-05	9.95E-05	5.55E-05	1.42E-06	2.06E-05	1.55E-05	1.55E-05	8.54E-06	7.69E-07	1.11E-05	6.91E-06	6.91E-06	3.42E-06
249	258979.2	4085326	9.11E-06	1.32E-04	9.71E-05	9.71E-05	5.41E-05	1.38E-06	2.01E-05	1.52E-05	1.52E-05	8.33E-06	7.51E-07	1.09E-05	6.74E-06	6.74E-06	3.34E-06
250	258970.7	4085348	8.90E-06	1.29E-04	9.48E-05	9.48E-05	5.29E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.14E-06	7.33E-07	1.06E-05	6.59E-06	6.59E-06	3.26E-06
251	258962.2	4085371	8.69E-06	1.26E-04	9.27E-05	9.27E-05	5.17E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.95E-06	7.16E-07	1.04E-05	6.44E-06	6.44E-06	3.19E-06
252	258953.7	4085393	8.49E-06	1.23E-04	9.05E-05	9.05E-05	5.05E-05	1.29E-06	1.87E-05	1.41E-05	1.41E-05	7.77E-06	7.00E-07	1.01E-05	6.29E-06	6.29E-06	3.11E-06
253	258945.2	4085416	8.29E-06	1.20E-04	8.84E-05	8.84E-05	4.93E-05	1.26E-06	1.83E-05	1.38E-05	1.38E-05	7.59E-06	6.84E-07	9.89E-06	6.14E-06	6.14E-06	3.04E-06
254	258936.7	4085438	8.10E-06	1.17E-04	8.63E-05	8.63E-05	4.81E-05	1.23E-06	1.78E-05	1.35E-05	1.35E-05	7.41E-06	6.68E-07	9.65E-06	6.00E-06	6.00E-06	2.97E-06
255	258928.2	4085461	7.90E-06	1.14E-04	8.43E-05	8.43E-05	4.70E-05	1.20E-06	1.74E-05	1.32E-05	1.32E-05	7.23E-06	6.51E-07	9.42E-06	5.85E-06	5.85E-06	2.90E-06
256	258919.8	4085484	7.71E-06	1.12E-04	8.22E-05	8.22E-05	4.58E-05	1.17E-06	1.70E-05	1.28E-05	1.28E-05	7.06E-06	6.36E-07	9.20E-06	5.71E-06	5.71E-06	2.83E-06
257	258911.3	4085506	7.53E-06	1.09E-04	8.03E-05	8.03E-05	4.47E-05	1.14E-06	1.66E-05	1.25E-05	1.25E-05	6.89E-06	6.21E-07	8.98E-06	5.58E-06	5.58E-06	2.76E-06
258	258902.8	4085529	7.35E-06	1.06E-04	7.84E-05	7.84E-05	4.37E-05	1.12E-06	1.62E-05	1.22E-05	1.22E-05	6.73E-06	6.06E-07	8.77E-06	5.45E-06	5.45E-06	2.70E-06
259	258894.3	4085551	7.19E-06	1.04E-04	7.66E-05	7.66E-05	4.27E-05	1.09E-06	1.58E-05	1.20E-05	1.20E-05	6.58E-06	5.93E-07	8.57E-06	5.32E-06	5.32E-06	2.63E-06
260	258885.8	4085574	7.04E-06	1.02E-04	7.50E-05	7.50E-05	4.18E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.44E-06	5.80E-07	8.39E-06	5.21E-06	5.21E-06	2.58E-06
261	258855.4	4085607	7.00E-06	1.01E-04	7.46E-05	7.46E-05	4.16E-05	1.06E-06	1.54E-05	1.17E-05	1.17E-05	6.41E-06	5.77E-07	8.35E-06	5.19E-06	5.19E-06	2.57E-06
262	258833.5	4085617	7.11E-06	1.03E-04	7.58E-05	7.58E-05	4.23E-05	1.08E-06	1.57E-05	1.18E-05	1.18E-05	6.51E-06	5.86E-07	8.48E-06	5.27E-06	5.27E-06	2.61E-06
263	258811.6	4085627	7.24E-06	1.05E-04	7.72E-05	7.72E-05	4.30E-05	1.10E-06	1.59E-05	1.20E-05	1.20E-05	6.62E-06	5.97E-07	8.63E-06	5.36E-06	5.36E-06	2.65E-06
264	258789.7	4085637	7.37E-06	1.07E-04	7.85E-05	7.85E-05	4.38E-05	1.12E-06	1.62E-05	1.23E-05	1.23E-05	6.74E-06	6.07E-07	8.78E-06	5.46E-06	5.46E-06	2.70E-06
265	258767.8	4085647	7.51E-06	1.09E-04	8.00E-05	8.00E-05	4.46E-05	1.14E-06	1.65E-05	1.25E-05	1.25E-05	6.87E-06	6.19E-07	8.95E-06	5.56E-06	5.56E-06	2.75E-06
266	258745.9	4085657	7.67E-06	1.11E-04	8.17E-05	8.17E-05	4.56E-05	1.16E-06	1.69E-05	1.28E-05	1.28E-05	7.02E-06	6.32E-07	9.14E-06	5.68E-06	5.68E-06	2.81E-06
267	258724	4085667	7.85E-06	1.14E-04	8.37E-05	8.37E-05	4.66E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.18E-06	6.47E-07	9.36E-06	5.81E-06	5.81E-06	2.88E-06
268	258702.1	4085678	8.05E-06	1.16E-04	8.58E-05	8.58E-05	4.78E-05	1.22E-06	1.77E-05	1.34E-05	1.34E-05	7.36E-06	6.63E-07	9.59E-06	5.96E-06	5.96E-06	2.95E-06
269	258680.2	4085688	8.26E-06	1.19E-04	8.80E-05	8.80E-05	4.91E-05	1.25E-06	1.82E-05	1.37E-05	1.37E-05	7.55E-06	6.81E-07	9.84E-06	6.11E-06	6.11E-06	3.03E-06
270	258658.3	4085698	8.47E-06	1.22E-04	9.03E-05	9.03E-05	5.03E-05	1.29E-06	1.87E-05	1.41E-05	1.41E-05	7.75E-06	6.98E-07	1.01E-05	6.27E-06	6.27E-06	3.10E-06
271	258636.4	4085708	8.67E-06	1.25E-04	9.24E-05	9.24E-05	5.15E-05	1.32E-06	1.91E-05	1.44E-05	1.44E-05	7.93E-06	7.14E-07	1.03E-05	6.42E-06	6.42E-06	3.18E-06
272	258614.5	4085718	8.84E-06	1.28E-04	9.43E-05	9.43E-05	5.26E-05	1.34E-06	1.95E-05	1.47E-05	1.47E-05	8.09E-06	7.29E-07	1.05E-05	6.55E-06	6.55E-06	3.24E-06
273	258592.6	4085728	9.01E-06	1.30E-04	9.60E-05	9.60E-05	5.35E-05	1.37E-06	1.98E-05	1.50E-05	1.50E-05	8.24E-06	7.42E-07	1.07E-05	6.67E-06	6.67E-06	3.30E-06
274	258570.7	4085738	9.16E-06	1.32E-04	9.76E-05	9.76E-05	5.44E-05	1.39E-06	2.02E-05	1.52E-05	1.52E-05	8.38E-06	7.55E-07	1.09E-05	6.78E-06	6.78E-06	3.36E-06
275	258548.8	4085749	9.30E-06	1.35E-04	9.92E-05	9.92E-05	5.53E-05	1.41E-06	2.05E-05	1.55E-05	1.55E-05	8.51E-06	7.67E-07	1.11E-05	6.89E-06	6.89E-06	3.41E-06
276	258526.8	4085759	9.46E-06	1.37E-04	1.01E-04	1.01E-04	5.62E-05	1.44E-06	2.08E-05	1.57E-05	1.57E-05	8.66E-06	7.80E-07	1.13E-05	7.00E-06	7.00E-06	3.47E-06
277	258504.9	4085769	9.63E-06	1.39E-04	1.03E-04	1.03E-04	5.72E-05	1.46E-06	2.12E-05	1.60E-05	1.60E-05	8.81E-06	7.94E-07	1.15E-05	7.13E-06	7.13E-06	3.53E-06
278	258483	4085779	9.82E-06	1.42E-04	1.05E-04	1.05E-04	5.84E-05	1.49E-06	2.16E-05	1.63E-05	1.63E-05	8.98E-06	8.09E-07	1.17E-05	7.27E-06	7.27E-06	3.60E-06
279	258461.1	4085789	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.96E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.17E-06	8.26E-07	1.19E-05	7.42E-06	7.42E-06	3.67E-06
280	258439.2	4085799	1.02E-05	1.48E-04	1.09E-04	1.09E-04	6.08E-05	1.55E-06	2.25E-05	1.70E-05	1.70E-05	9.36E-06	8.43E-07	1.22E-05	7.58E-06	7.58E-06	3.75E-06
281	258417.3	4085809	1.05E-05	1.51E-04	1.11E-04	1.11E-04	6.21E-05	1.59E-06	2.30E-05	1.74E-05	1.74E-05	9.56E-06	8.61E-07	1.25E-05	7.74E-06	7.74E-06	3.83E-06
282	259064.2	4085100	1.15E-05	1.66E-04	1.22E-04	1.22E-04	6.82E-05	1.74E-06	2.53E-05	1.91E-05	1.91E-05	1.05E-05	9.45E-07	1.37E-05	8.49E-06	8.49E-06	4.20E-06
283	259063.4	4085075	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.07E-05	1.81E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.80E-07	1.42E-05	8.81E-06	8.81E-06	4.36E-06
284	259062.7	4085050	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.16E-06	9.16E-06	4.53E-06
285	259062	4085025	1.29E-05	1.86E-04	1.37E-04	1.37E-04	7.66E-05	1.96E-06	2.84E-05	2.14E-05	2.14E-05	1.18E-05	1.06E-06	1.54E-05	9.54E-06	9.54E-06	4.72E-06
286	259061.3	4085001	1.35E-05	1.95E-04	1.43E-04	1.43E-04	8.00E-05	2.04E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.60E-05	9.97E-06	9.97E-06	4.93E-06
287	259060.6	4084976	1.41E-05	2.04E-04	1.50E-04	1.50E-04	8.37E-05	2.14E-06	3.10E-05	2.34E-05	2.34E-05	1.29E-05	1.16E-06	1.68E-05	1.04E-05	1.04E-05	5.16E-06
288	259059.8	4084951	1.48E-05	2.13E-04	1.57E-04	1.57E-04	8.77E-05	2.24E-06	3.25E-05	2.46E-05	2.46E-05	1.35E-05	1.22E-06	1.76E-05	1.09E-05	1.09E-05	5.41E-06
289	259059.1	4084926	1.55E-05	2.24E-04	1.65E-04	1.65E-04	9.20E-05	2.35E-06	3.41E-05	2.58E-05	2.58E-05	1.42E-05	1.28E-06	1.84E-05	1.15E-05	1.15E-05	5.67E-06
290	259058.4	4084902	1.62E-05	2.35E-04	1.73E-04	1.73E-04	9.64E-05	2.46E-06	3.58E-05	2.70E-05	2.70E-05	1.48E-05	1.34E-06	1.93E-05	1.20E-05	1.20E-05	5.95E-06
291	259255.5	4085117	8.09E-06	1.17E-04	8.62E-05	8.62E-05	4.81E-05	1.23E-06	1.78E-05	1.35E-05	1.35E-05	7.40E-06	6.66E-07	9.64E-06	5.99E-06	5.99E-06	2.96E-06
292	259246.9	4085139	8.01E-06	1.16E-04	8.54E-05	8.54E-05	4.76E-05	1.22E-06	1.76E-05	1.33E-05	1.33E-05	7.33E-06	6.60E-07	9.55E-06	5.93E-06	5.93E-06	2.94E-06
293	259238.3	4085162	7.91E-06	1.14E-04	8.44E-05	8.44E-05	4.70E-05	1.20E-06	1.74E-05	1.32E-05	1.32E-05	7.24E-06	6.52E-07	9.43E-06	5.86E-06	5.86E-06	2.90E-06
294	259229.8	4085185	7.79E-06	1.13E-04	8.31E-05	8.31E-05	4.63E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.13E-06	6.42E-07	9.29E-06	5.77E-06	5.77E-06	2.86E-06
295	259221.2	4085208	7.63E-06	1.10E-04	8.13E-05	8.13E-05	4.53E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.98E-06	6.29E-07	9.09E-06	5.65E-06	5.65E-06	2.80E-06
296	259212.6	4085231	7.47E-06	1.08E-04	7.96E-05	7.96E-05	4.44E-05	1.13E-06	1.65E-05	1.24E-05	1.24E-05	6.84E-06	6.16E-07	8.91E-06	5.53E-06	5.53E-06	2.74E-06
297	259204	4085254	7.31E-06	1.06E-04	7.79E-05	7.79E-05	4.34E-05	1.11E-06	1.61E-05	1.22E-05	1.22E-05	6.68E-06	6.02E-07	8.71E-06	5.41E-06	5.41E-06	2.68E-06
298	259195.4	4085276	7.14E-06	1.03E-04	7.61E-05	7.61E-05	4.24E-05	1.08E-06	1.57E-05	1.19E-05	1.19E-05	6.53E-06	5.88E-07	8.51E-06	5.29E-06	5.29E-06	2.62E-06
299	259186.8	4085299	6.97E-06	1.01E-04	7.43E-05	7.43E-05	4.14E-05	1.06E-06	1.54E-05	1.16E-05	1.16E-05	6.38E-06	5.75E-07	8.31E-06	5.16E-06	5.16E-06	2.56E-06
300	259178.3	4085322	6.82E-06	9.86E-05	7.27E-05	7.27E-05	4.05E-05	1.03E-06	1.50E-05	1.13E-05	1.13E-05	6.24E-06	5.62E-07	8.13E-06	5.05E-06	5.05E-06	2.50E-06
301	259169.7	4085345	6.67E-06	9.65E-05	7.11E-05	7.11E-05	3.96E-05	1.01E-06	1.47E-05	1.11E-05	1.11E-05	6.10E-06	5.50E-07	7.95E-06	4.94E-06	4.94E-06	2.44E-06
302	259161.1	4085368	6.54E-06	9.45E-05	6.97E-05	6.97E-05	3.88E-05	9.92E-07	1.44E-05	1.09E-05	1.09E-05	5.98E-06	5.39E-07	7.79E-06	4.84E-06	4.84E-06	2.40E-06
303	259152.5	4085390	6.41E-06	9.28E-05	6.84E-05	6.84E-05	3.81E-05	9.73E-07	1.41E-05	1.07E-05	1.07E-05	5.87E-06	5.29E-07	7.65E-06	4.75E-06	4.75E-06	2.35E-06
304	259143.9	4085413	6.30E-06	9.11E-05	6.72E-05	6.72E-05	3.74E-05	9.56E-07	1.39E-05	1.05E-05	1.05E-05	5.77E-06	5.19E-07	7.51E-06	4.67E-06	4.67E-06	2.31E-06
305	259135.4	4085436	6.20E-06	8.96E-05	6.61E-05	6.61E-05	3.68E-05	9.40E-07	1.37E-05	1.03E-05	1.03E-05	5.67E-06	5.11E-07	7.39E-06	4.59E-06	4.59E-06	2.27E-06

306	259126.8	4085459	6.09E-06	8.81E-05	6.50E-05	6.50E-05	3.62E-05	9.25E-07	1.34E-05	1.01E-05	1.01E-05	5.58E-06	5.02E-07	7.27E-06	4.51E-06	4.51E-06	2.23E-06
307	259118.2	4085482	5.99E-06	8.67E-05	6.39E-05	6.39E-05	3.56E-05	9.10E-07	1.32E-05	9.98E-06	9.98E-06	5.48E-06	4.94E-07	7.15E-06	4.44E-06	4.44E-06	2.20E-06
308	259109.6	4085505	5.89E-06	8.52E-05	6.28E-05	6.28E-05	3.50E-05	8.94E-07	1.30E-05	9.81E-06	9.81E-06	5.39E-06	4.86E-07	7.02E-06	4.36E-06	4.36E-06	2.16E-06
309	259101	4085527	5.79E-06	8.37E-05	6.17E-05	6.17E-05	3.44E-05	8.79E-07	1.28E-05	9.64E-06	9.64E-06	5.30E-06	4.77E-07	6.90E-06	4.29E-06	4.29E-06	2.12E-06
310	259092.4	4085550	5.69E-06	8.22E-05	6.06E-05	6.06E-05	3.38E-05	8.63E-07	1.25E-05	9.46E-06	9.46E-06	5.20E-06	4.69E-07	6.78E-06	4.21E-06	4.21E-06	2.08E-06
311	259083.9	4085573	5.58E-06	8.07E-05	5.95E-05	5.95E-05	3.32E-05	8.47E-07	1.23E-05	9.29E-06	9.29E-06	5.11E-06	4.60E-07	6.65E-06	4.13E-06	4.13E-06	2.05E-06
312	259075.3	4085596	5.47E-06	7.92E-05	5.83E-05	5.83E-05	3.25E-05	8.31E-07	1.21E-05	9.11E-06	9.11E-06	5.01E-06	4.51E-07	6.53E-06	4.05E-06	4.05E-06	2.01E-06
313	259066.7	4085619	5.37E-06	7.76E-05	5.72E-05	5.72E-05	3.19E-05	8.14E-07	1.18E-05	8.93E-06	8.93E-06	4.91E-06	4.42E-07	6.40E-06	3.97E-06	3.97E-06	1.97E-06
314	259058.1	4085641	5.26E-06	7.61E-05	5.61E-05	5.61E-05	3.13E-05	7.99E-07	1.16E-05	8.76E-06	8.76E-06	4.82E-06	4.34E-07	6.28E-06	3.90E-06	3.90E-06	1.93E-06
315	259049.5	4085664	5.17E-06	7.47E-05	5.51E-05	5.51E-05	3.07E-05	7.84E-07	1.14E-05	8.60E-06	8.60E-06	4.73E-06	4.26E-07	6.16E-06	3.83E-06	3.83E-06	1.89E-06
316	259041	4085687	5.08E-06	7.34E-05	5.41E-05	5.41E-05	3.02E-05	7.70E-07	1.12E-05	8.45E-06	8.45E-06	4.64E-06	4.18E-07	6.05E-06	3.76E-06	3.76E-06	1.86E-06
317	259032.4	4085710	4.99E-06	7.22E-05	5.32E-05	5.32E-05	2.97E-05	7.58E-07	1.10E-05	8.31E-06	8.31E-06	4.57E-06	4.11E-07	5.95E-06	3.70E-06	3.70E-06	1.83E-06
318	259001.7	4085743	4.98E-06	7.20E-05	5.30E-05	5.30E-05	2.96E-05	7.55E-07	1.10E-05	8.28E-06	8.28E-06	4.55E-06	4.10E-07	5.93E-06	3.68E-06	3.68E-06	1.82E-06
319	258979.5	4085753	5.04E-06	7.29E-05	5.37E-05	5.37E-05	2.99E-05	7.65E-07	1.11E-05	8.39E-06	8.39E-06	4.61E-06	4.15E-07	6.01E-06	3.73E-06	3.73E-06	1.85E-06
320	258957.4	4085763	5.11E-06	7.39E-05	5.44E-05	5.44E-05	3.03E-05	7.75E-07	1.13E-05	8.50E-06	8.50E-06	4.67E-06	4.21E-07	6.09E-06	3.78E-06	3.78E-06	1.87E-06
321	258935.3	4085774	5.18E-06	7.49E-05	5.52E-05	5.52E-05	3.08E-05	7.86E-07	1.14E-05	8.62E-06	8.62E-06	4.74E-06	4.27E-07	6.17E-06	3.83E-06	3.83E-06	1.90E-06
322	258913.2	4085784	5.25E-06	7.60E-05	5.60E-05	5.60E-05	3.12E-05	7.97E-07	1.16E-05	8.75E-06	8.75E-06	4.81E-06	4.33E-07	6.26E-06	3.89E-06	3.89E-06	1.93E-06
323	258891	4085794	5.34E-06	7.72E-05	5.69E-05	5.69E-05	3.17E-05	8.10E-07	1.18E-05	8.88E-06	8.88E-06	4.88E-06	4.40E-07	6.36E-06	3.95E-06	3.95E-06	1.96E-06
324	258868.9	4085804	5.42E-06	7.84E-05	5.78E-05	5.78E-05	3.22E-05	8.23E-07	1.20E-05	9.03E-06	9.03E-06	4.96E-06	4.47E-07	6.47E-06	4.02E-06	4.02E-06	1.99E-06
325	258846.8	4085815	5.52E-06	7.99E-05	5.89E-05	5.89E-05	3.28E-05	8.38E-07	1.22E-05	9.19E-06	9.19E-06	5.05E-06	4.55E-07	6.58E-06	4.09E-06	4.09E-06	2.02E-06
326	258824.7	4085825	5.64E-06	8.15E-05	6.01E-05	6.01E-05	3.35E-05	8.55E-07	1.24E-05	9.38E-06	9.38E-06	5.16E-06	4.64E-07	6.72E-06	4.17E-06	4.17E-06	2.07E-06
327	258802.5	4085835	5.76E-06	8.33E-05	6.14E-05	6.14E-05	3.42E-05	8.74E-07	1.27E-05	9.58E-06	9.58E-06	5.27E-06	4.75E-07	6.86E-06	4.26E-06	4.26E-06	2.11E-06
328	258780.4	4085845	5.89E-06	8.52E-05	6.28E-05	6.28E-05	3.50E-05	8.94E-07	1.30E-05	9.81E-06	9.81E-06	5.39E-06	4.86E-07	7.02E-06	4.36E-06	4.36E-06	2.16E-06
329	258758.3	4085856	6.04E-06	8.73E-05	6.44E-05	6.44E-05	3.59E-05	9.16E-07	1.33E-05	1.00E-05	1.00E-05	5.52E-06	4.98E-07	7.20E-06	4.47E-06	4.47E-06	2.21E-06
330	258736.2	4085866	6.18E-06	8.94E-05	6.59E-05	6.59E-05	3.67E-05	9.38E-07	1.36E-05	1.03E-05	1.03E-05	5.66E-06	5.09E-07	7.37E-06	4.58E-06	4.58E-06	2.27E-06
331	258714	4085876	6.31E-06	9.13E-05	6.73E-05	6.73E-05	3.75E-05	9.58E-07	1.39E-05	1.05E-05	1.05E-05	5.78E-06	5.20E-07	7.53E-06	4.68E-06	4.68E-06	2.31E-06
332	258691.9	4085886	6.44E-06	9.31E-05	6.87E-05	6.87E-05	3.83E-05	9.77E-07	1.42E-05	1.07E-05	1.07E-05	5.89E-06	5.31E-07	7.68E-06	4.77E-06	4.77E-06	2.36E-06
333	258669.8	4085896	6.55E-06	9.47E-05	6.98E-05	6.98E-05	3.89E-05	9.94E-07	1.44E-05	1.09E-05	1.09E-05	5.99E-06	5.40E-07	7.81E-06	4.85E-06	4.85E-06	2.40E-06
334	258647.7	4085907	6.65E-06	9.62E-05	7.09E-05	7.09E-05	3.95E-05	1.01E-06	1.47E-05	1.11E-05	1.11E-05	6.09E-06	5.48E-07	7.93E-06	4.93E-06	4.93E-06	2.44E-06
335	258625.5	4085917	6.75E-06	9.76E-05	7.19E-05	7.19E-05	4.01E-05	1.02E-06	1.49E-05	1.12E-05	1.12E-05	6.17E-06	5.56E-07	8.04E-06	5.00E-06	5.00E-06	2.47E-06
336	258603.4	4085927	6.84E-06	9.89E-05	7.29E-05	7.29E-05	4.07E-05	1.04E-06	1.51E-05	1.14E-05	1.14E-05	6.26E-06	5.64E-07	8.15E-06	5.07E-06	5.07E-06	2.51E-06
337	258581.3	4085937	6.93E-06	1.00E-04	7.39E-05	7.39E-05	4.12E-05	1.05E-06	1.53E-05	1.15E-05	1.15E-05	6.35E-06	5.72E-07	8.27E-06	5.14E-06	5.14E-06	2.54E-06
338	258559.2	4085948	7.03E-06	1.02E-04	7.50E-05	7.50E-05	4.18E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.44E-06	5.80E-07	8.38E-06	5.21E-06	5.21E-06	2.58E-06
339	258537	4085958	7.14E-06	1.03E-04	7.61E-05	7.61E-05	4.24E-05	1.08E-06	1.57E-05	1.19E-05	1.19E-05	6.53E-06	5.88E-07	8.51E-06	5.29E-06	5.29E-06	2.62E-06
340	258514.9	4085968	7.25E-06	1.05E-04	7.73E-05	7.73E-05	4.31E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.63E-06	5.98E-07	8.64E-06	5.37E-06	5.37E-06	2.66E-06
341	258492.8	4085978	7.37E-06	1.07E-04	7.85E-05	7.85E-05	4.38E-05	1.12E-06	1.62E-05	1.23E-05	1.23E-05	6.74E-06	6.07E-07	8.78E-06	5.46E-06	5.46E-06	2.70E-06
342	258470.7	4085989	7.49E-06	1.08E-04	7.98E-05	7.98E-05	4.45E-05	1.14E-06	1.65E-05	1.25E-05	1.25E-05	6.85E-06	6.17E-07	8.93E-06	5.54E-06	5.54E-06	2.74E-06
343	258448.5	4085999	7.61E-06	1.10E-04	8.11E-05	8.11E-05	4.52E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.96E-06	6.27E-07	9.07E-06	5.64E-06	5.64E-06	2.79E-06
344	258426.4	4086009	7.74E-06	1.12E-04	8.25E-05	8.25E-05	4.60E-05	1.17E-06	1.70E-05	1.29E-05	1.29E-05	7.08E-06	6.38E-07	9.22E-06	5.73E-06	5.73E-06	2.84E-06
345	259264.1	4085094	8.16E-06	1.18E-04	8.70E-05	8.70E-05	4.85E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.46E-06	6.72E-07	9.73E-06	6.04E-06	6.04E-06	2.99E-06
346	259263.4	4085069	8.37E-06	1.21E-04	8.92E-05	8.92E-05	4.97E-05	1.27E-06	1.84E-05	1.39E-05	1.39E-05	7.66E-06	6.90E-07	9.98E-06	6.20E-06	6.20E-06	3.07E-06
347	259262.6	4085044	8.61E-06	1.25E-04	9.18E-05	9.18E-05	5.12E-05	1.31E-06	1.90E-05	1.43E-05	1.43E-05	7.88E-06	7.10E-07	1.03E-05	6.38E-06	6.38E-06	3.16E-06
348	259261.9	4085020	8.89E-06	1.29E-04	9.47E-05	9.47E-05	5.28E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.13E-06	7.33E-07	1.06E-05	6.58E-06	6.58E-06	3.26E-06
349	259261.2	4084995	9.20E-06	1.33E-04	9.81E-05	9.81E-05	5.47E-05	1.40E-06	2.03E-05	1.53E-05	1.53E-05	8.42E-06	7.59E-07	1.10E-05	6.82E-06	6.82E-06	3.37E-06
350	259260.5	4084970	9.56E-06	1.38E-04	1.02E-04	1.02E-04	5.68E-05	1.45E-06	2.11E-05	1.59E-05	1.59E-05	8.75E-06	7.88E-07	1.14E-05	7.08E-06	7.08E-06	3.50E-06
351	259259.7	4084945	9.94E-06	1.44E-04	1.06E-04	1.06E-04	5.91E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.09E-06	8.19E-07	1.18E-05	7.36E-06	7.36E-06	3.64E-06
352	259259	4084921	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.46E-06	8.52E-07	1.23E-05	7.65E-06	7.65E-06	3.79E-06
353	259258.3	4084896	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.38E-05	1.63E-06	2.37E-05	1.79E-05	1.79E-05	9.83E-06	8.85E-07	1.28E-05	7.95E-06	7.95E-06	3.94E-06
354	259455.4	4085111	6.21E-06	8.98E-05	6.62E-05	6.62E-05	3.69E-05	9.42E-07	1.37E-05	1.03E-05	1.03E-05	5.68E-06	5.12E-07	7.40E-06	4.60E-06	4.60E-06	2.28E-06
355	259446.7	4085134	6.18E-06	8.94E-05	6.59E-05	6.59E-05	3.67E-05	9.38E-07	1.36E-05	1.03E-05	1.03E-05	5.65E-06	5.09E-07	7.37E-06	4.58E-06	4.58E-06	2.26E-06
356	259438.1	4085157	6.14E-06	8.88E-05	6.54E-05	6.54E-05	3.65E-05	9.32E-07	1.35E-05	1.02E-05	1.02E-05	5.62E-06	5.06E-07	7.32E-06	4.55E-06	4.55E-06	2.25E-06
357	259429.4	4085180	6.09E-06	8.81E-05	6.49E-05	6.49E-05	3.62E-05	9.24E-07	1.34E-05	1.01E-05	1.01E-05	5.57E-06	5.02E-07	7.26E-06	4.51E-06	4.51E-06	2.23E-06
358	259420.8	4085203	6.02E-06	8.70E-05	6.42E-05	6.42E-05	3.58E-05	9.13E-07	1.33E-05	1.00E-05	1.00E-05	5.51E-06	4.96E-07	7.18E-06	4.46E-06	4.46E-06	2.21E-06
359	259412.2	4085226	5.93E-06	8.58E-05	6.32E-05	6.32E-05	3.52E-05	9.00E-07	1.31E-05	9.87E-06	9.87E-06	5.43E-06	4.89E-07	7.07E-06	4.39E-06	4.39E-06	2.17E-06
360	259403.5	4085249	5.83E-06	8.43E-05	6.21E-05	6.21E-05	3.46E-05	8.84E-07	1.28E-05	9.70E-06	9.70E-06	5.33E-06	4.80E-07	6.95E-06	4.32E-06	4.32E-06	2.14E-06
361	259394.9	4085272	5.71E-06	8.26E-05	6.09E-05	6.09E-05	3.40E-05	8.67E-07	1.26E-05	9.51E-06	9.51E-06	5.23E-06	4.71E-07	6.81E-06	4.23E-06	4.23E-06	2.09E-06
362	259386.3	4085295	5.59E-06	8.09E-05	5.96E-05	5.96E-05	3.32E-05	8.49E-07	1.23E-05	9.31E-06	9.31E-06	5.12E-06	4.61E-07	6.67E-06	4.14E-06	4.14E-06	2.05E-06
363	259377.6	4085318	5.47E-06	7.91E-05	5.83E-05	5.83E-05	3.25E-05	8.30E-07	1.20E-05	9.10E-06	9.10E-06	5.00E-06	4.51E-07	6.52E-06	4.05E-06	4.05E-06	2.00E-06
364	259369	4085341	5.34E-06	7.72E-05	5.69E-05	5.69E-05	3.17E-05	8.10E-07	1.18E-05	8.88E-06	8.88E-06	4.88E-06	4.40E-07	6.36E-06	3.95E-06	3.95E-06	1.96E-06
365	259360.3	4085364	5.23E-06	7.56E-05	5.57E-05	5.57E-05	3.11E-05	7.93E-07	1.15E-05	8.70E-06	8.70E-06	4.78E-06	4.31E-07	6.23E-06	3.87E-06	3.87E-06	1.92E-06
366	259351.7	4085387	5.12E-06	7.41E-05	5.46E-05	5.46E-05	3.05E-05	7.78E-07	1.13E-05	8.53E-06	8.53E-06	4.69E-06	4.22E-07	6.11E-06	3.80E-06	3.80E-06	1.88E-06
367	259343.1	4085410	5.03E-06	7.28E-05	5.36E-05	5.36E-05	2.99E-05	7.64E-07	1.11E-05	8.38E-06	8.38E-06	4.61E-06	4.15E-07	6.00E-06	3.73E-06	3.73E-06	1.84E-06
368	259334.4	4085433	4.95E-06	7.16E-05	5.28E-05	5.28E-05	2.94E-05	7.51E-07	1.09E-05	8.24E-06	8.24E-06	4.53E-06	4.08E-07	5.90E-06	3.67E-06	3.67E-06	1.81E-06
369	259325.8	4085455	4.88E-06	7.06E-05	5.20E-05	5.20E-05	2.90E-05	7.40E-07	1.08E-05	8.12E-06	8.12E-06	4.46E-06	4.02E-07	5.82E-06	3.61E-06	3.61E-06	1.79E-06
370	259317.2	4085478	4.81E-06	6.96E-05	5.13E-05	5.13E-05	2.86E-05	7.30E-07	1.06E-05	8.01E-06	8.01E-06	4.40E-06	3.97E-07	5.74E-06	3.56E-06	3.56E-06	1.76E-06
371	259308.5	4085501	4.75E-06	6.87E-05	5.06E-05	5.06E-05	2.82E-05	7.21E-07	1.05E-05	7.91E-06	7.91E-06	4.35E-06	3.92E-07	5.66E-06	3.52E-06	3.52E-06	1.74E-06
372	259299.9	4085524	4.69E-06	6.78E-05	5.00E-05	5.00E-05	2.79E-05	7.12E-07	1.03E-05	7.81E-06	7.81E-06	4.29E-06	3.87E-07	5.59E-06	3.47E-06	3.47E-06	1.72E-06
373	259291.2	4085547	4.63E-06	6.70E-05	4.94E-05	4.94E-05	2.75E-05	7.03E-07	1.02E-05	7.71E-06	7.71E-06	4.24E-06	3.82E-07	5.52E-06	3.43E-06	3.43E-06	1.70E-06
374	259282.6	4085570	4.58E-06	6.62E-05	4.88E-05	4.88E-05	2.72E-05	6.95E-07	1.01E-05	7.62E-06	7.62E-06	4.19E-06	3.77E-07	5.46E-06	3.39E-06	3.39E-06	1.68E-06
375	259274	4085593	4.52E-06	6.54E-05	4.82E-05	4.82E-05	2.69E-05	6.86E-07	9.96E-06	7.52E-06	7.52E-06	4.14E-06	3.73E-07	5.39E-06	3.35E-06	3.35E-06	1.66E-06
376	259265.3	4085616	4.46E-06	6.45E-05	4.76E-05	4.76E-05	2.65E-05	6.77E-07	9.83E-06	7.43E-06	7.43E-06	4.08E-06	3.68E-07	5.32E-06	3.31E-06	3.31E-06	1.64E-06
377	259256.7	4085639	4.40E-06	6.37E-05	4.69E-05	4.69E-05	2.62E-05	6.68E-07	9.70E-06	7.33E-06	7.33E-06	4.03E-06	3.63E-07	5.25E-06	3.26E-06	3.26E-06	1.61E-06
378	259248.1	4085662	4.34E-06	6.28E-05	4.63E-05	4.63E-05	2.58E-05	6.59E-07	9.56E-06	7.22E-06	7.22E-06	3.97E-06	3.58E-07	5.17E-06	3.21E-06	3.21E-06	1.59E-06
379	259239.4	4085685	4.27E-06	6.18E-05	4.56E-05	4.56E-05	2.54E-05	6.49E-07	9.42E-06	7.11E-06	7.11E-06	3.91E-06	3.52E-07	5.10E-06	3.17E-06	3.17E-06	1.57E-06
380	259230.8	4085708	4.20E-06	6.08E-05	4.48E-05	4.48E-05	2.50E-05	6.38E-07	9.26E-06	7.00E-06	7.00E-06	3.85E-06	3.47E-07	5.01E-06	3.11E-06	3.11E-06	1.54E-06
381	259222.1	4085731	4.14E-06	5.98E-05	4.41E-05	4.41E-05	2.46E-05	6.28E-07	9.11E-06	6.88E-06	6.88E-06	3.78E-06	3.41E-07	4.93E-06	3.06E-06	3.06E-06	1.52E-06
382	259213.5	4085754	4.07E-06	5.88E-05	4.34E-05	4.34E-05	2.42E-05	6.17E-07	8.96E-06	6.77E-06	6.77E-06	3.72E-06	3.35E-07	4.85E-06	3.01E-06	3.01E-06	1.49E-06
383	259204.9	4085777	4.00E-06	5.79E-05	4.26E-05	4.26E-05	2.38E-05	6.07E-07	8.81E-06	6.66E-06	6.66E-06	3.66E-06	3.30E-07	4.77E-06	2.96E-06	2.96E-06	1.47E-06
384	259196.2	4085800	3.94E-06	5.70E-05	4.20E-05	4.20E-05	2.34E-05	5.98E-07	8.68E-06	6.56E-06	6.56E-06	3.60E-06	3.25E-07	4.70E-06	2.92E-06	2.92E-06	1.44E-06
385	259187.6	4085823	3.88E-06	5.61E-05	4.14E-05	4.14E-05	2.31E-05	5.89E-07	8.55E-06	6.46E-06	6.46E-06	3.55E-06	3.20E-07	4.63E-06	2.87E-06	2.87E-06	1.42E-06
386	259179	4085846	3.83E-06	5.54E-05	4.08E-05	4.08E-05	2.28E-05	5.81E-07	8.44E-06	6.37E-06	6.37E-06	3.50E-06	3.16E-07	4.57E-06	2.84E-06	2.84E-06	1.40E-06
387	259148	4085879	3.83E-06	5.53E-05	4.08E-05	4.08E-05	2.27E-05	5.81E-07	8.43E-06	6.37E-06	6.37E-06	3.50E-06	3.15E-07	4.56E-06	2.83E-06	2.83E-06	1.40E-06
388	259125.8	4085889	3.87E-06	5.60E-05	4.13E-05	4.13E-05	2.30E-05	5.87E-07	8.53E-06	6.44E-06	6.44E-06	3.54E-06	3.19E-07	4.61E-06	2.87E-06	2.87E-06	1.42E-06
389	259103.5	4085900	3.92E-06	5.66E-05	4.17E-05	4.17E-05	2.33E-05	5.94E-07	8.63E-06	6.52E-06	6.52E-06	3.58E-06	3.23E-07	4.67E-06	2.90E-06	2.90E-06	1.44E-06
390	259081.2	4085910	3.96E-06	5.73E-05	4.22E-05	4.22E-05	2.36E-05	6.01E-07	8.73E-06	6.60E-06	6.60E-06	3.63E-06	3.27E-07	4.72E-06	2.93E-06	2.93E-06	1.45E-06
391	259059	4085920	4.01E-06	5.80E-05	4.28E-05	4.28E-05	2.38E-05	6.09E-07	8.84E-06	6.68E-06	6.68E-06	3.67E-06	3.31E-07	4.78E-06	2.97E-06	2.97E-06	1.47E-06
392	259036.7	4085931	4.06E-06	5.88E-05	4.33E-05	4.33E-05	2.42E-05	6.17E-07	8.95E-06	6.76E-06	6.76E-06	3.72E-06	3.35E-07	4.84E-06	3.01E-06	3.01E-06	1.49E-06
393	259014.4	4085941	4.12E-06	5.95E-05	4.39E-05	4.39E-05	2.45E-05	6.25E-07	9.07E-06	6.85E-06	6.85E-06	3.77E-06	3.39E-07	4.91E-06	3.05E-06	3.05E-06	1.51E-06
394	258992.2	4085951	4.17E-06	6.04E-05	4.45E-05	4.45E-05	2.48E-05	6.33E-07	9.20E-06	6.95E-06	6.95E-06	3.82E-06	3.44E-07	4.98E-06	3.09E-06	3.09E-06	1.53E-06
395	258969.9	4085962	4.23E-06	6.12E-05	4.51E-05	4.51E-05	2.52E-05	6.42E-07	9.33E-06	7.05E-06	7.05E-06	3.87E-06	3.49E-07	5.05E-06	3.14E-06	3.14E-06	1.55E-06
396	258947.6	4085972	4.29E-06	6.21E-05	4.57E-05	4.57E-05	2.55E-05	6.51E-07	9.45E-06	7.14E-06	7.14E-06	3.93E-06	3.54E-07	5.12E-06	3.18E-06	3.18E-06	1.57E-06
397	258925.3	4085982	4.36E-06	6.31E-05	4.65E-05	4.65E-05	2.59E-05	6.62E-07	9.62E-06	7.26E-06	7.26E-06	3.99E-06	3.60E-07	5.20E-06	3.23E-06	3.23E-06	1.60E-06
398	258903.1	4085992	4.45E-06	6.44E-05	4.75E-05	4.75E-05	2.65E-05	6.76E-07	9.81E-06	7.41E-06	7.41E-06	4.07E-06	3.67E-07	5.31E-06	3.30E-06	3.30E-06	1.63E-06
399	258880.8	4086003	4.55E-06	6.58E-05	4.85E-05	4.85E-05	2.70E-05	6.90E-07	1.00E-05	7.57E-06	7.57E-06	4.16E-06	3.75E-07	5.42E-06	3.37E-06	3.37E-06	1.67E-06
400	258858.5	4086013	4.66E-06	6.73E-05	4.96E-05	4.96E-05	2.77E-05	7.07E-07	1.03E-05	7.75E-06	7.75E-06	4.26E-06	3.84E-07	5.55E-06	3.45E-06	3.45E-06	1.71E-06
401	258836.3	4086023	4.77E-06	6.89E-05	5.08E-05	5.08E-05	2.83E-05	7.23E-07	1.05E-05	7.93E-06	7.93E-06	4.36E-06	3.93E-07	5.68E-06	3.53E-06	3.53E-06	1.75E-06
402	258814	4086034	4.88E-06	7.05E-05	5.20E-05	5.20E-05	2.90E-05	7.40E-07	1.07E-05	8.12E-06	8.12E-06	4.46E-06	4.02E-07	5.81E-06	3.61E-06	3.61E-06	1.79E-06
403	258791.7	4086044	4.98E-06	7.20E-05	5.31E-05	5.31E-05	2.96E-05	7.56E-07	1.10E-05	8.29E-06	8.29E-06	4.56E-06	4.11E-07	5.94E-06	3.69E-06	3.69E-06	1.83E-06
404	258769.5	4086054	5.08E-06	7.34E-05	5.41E-05	5.41E-05	3.02E-05	7.71E-07	1.12E-05	8.45E-06	8.45E-06	4.65E-06	4.19E-07	6.05E-06	3.76E-06	3.76E-06	1.86E-06
405	258747.2	4086065	5.16E-06	7.47E-05	5.50E-05	5.50E-05	3.07E-05	7.84E-07	1.14E-05	8.60E-06	8.60E-06	4.73E-06	4.26E-07	6.16E-06	3.82E-06	3.82E-06	1.89E-06
406	258724.9	4086075	5.24E-06	7.57E-05	5.58E-05	5.58E-05	3.11E-05	7.95E-07	1.15E-05	8.71E-06	8.71E-06	4.79E-06	4.32E-07	6.24E-06	3.88E-06	3.88E-06	1.92E-06
407	258702.6	4086085	5.30E-06	7.66E-05	5.65E-05	5.65E-05	3.15E-05	8.04E-07	1.17E-05	8.82E-06	8.82E-06	4.85E-06	4.37E-07	6.32E-06	3.92E-06	3.92E-06	1.94E-06
408	258680.4	4086095	5.36E-06	7.75E-05	5.71E-05	5.71E-05	3.18E-05	8.13E-07	1.18E-05	8.92E-06	8.92E-06	4.90E-06	4.42E-07	6.39E-06	3.97E-06	3.97E-06	1.96E-06

409	258658.1	4086106	5.41E-06	7.82E-05	5.76E-05	5.76E-05	3.21E-05	8.21E-07	1.19E-05	9.00E-06	9.00E-06	4.95E-06	4.46E-07	6.45E-06	4.00E-06	4.00E-06	1.98E-06
410	258635.8	4086116	5.46E-06	7.90E-05	5.82E-05	5.82E-05	3.24E-05	8.28E-07	1.20E-05	9.09E-06	9.09E-06	5.00E-06	4.50E-07	6.51E-06	4.04E-06	4.04E-06	2.00E-06
411	258613.6	4086126	5.51E-06	7.97E-05	5.88E-05	5.88E-05	3.28E-05	8.37E-07	1.21E-05	9.17E-06	9.17E-06	5.04E-06	4.54E-07	6.57E-06	4.08E-06	4.08E-06	2.02E-06
412	258591.3	4086137	5.57E-06	8.05E-05	5.94E-05	5.94E-05	3.31E-05	8.45E-07	1.23E-05	9.27E-06	9.27E-06	5.09E-06	4.59E-07	6.64E-06	4.12E-06	4.12E-06	2.04E-06
413	258569	4086147	5.63E-06	8.14E-05	6.00E-05	6.00E-05	3.35E-05	8.54E-07	1.24E-05	9.37E-06	9.37E-06	5.15E-06	4.64E-07	6.71E-06	4.17E-06	4.17E-06	2.06E-06
414	258546.8	4086157	5.69E-06	8.24E-05	6.07E-05	6.07E-05	3.38E-05	8.64E-07	1.25E-05	9.48E-06	9.48E-06	5.21E-06	4.69E-07	6.79E-06	4.22E-06	4.22E-06	2.09E-06
415	258524.5	4086168	5.77E-06	8.34E-05	6.15E-05	6.15E-05	3.43E-05	8.75E-07	1.27E-05	9.60E-06	9.60E-06	5.28E-06	4.75E-07	6.87E-06	4.27E-06	4.27E-06	2.11E-06
416	258502.2	4086178	5.84E-06	8.45E-05	6.23E-05	6.23E-05	3.47E-05	8.87E-07	1.29E-05	9.72E-06	9.72E-06	5.35E-06	4.82E-07	6.96E-06	4.33E-06	4.33E-06	2.14E-06
417	258479.9	4086188	5.93E-06	8.57E-05	6.32E-05	6.32E-05	3.52E-05	8.99E-07	1.31E-05	9.86E-06	9.86E-06	5.42E-06	4.88E-07	7.07E-06	4.39E-06	4.39E-06	2.17E-06
418	258457.7	4086198	6.01E-06	8.69E-05	6.40E-05	6.40E-05	3.57E-05	9.12E-07	1.32E-05	1.00E-05	1.00E-05	5.50E-06	4.95E-07	7.16E-06	4.45E-06	4.45E-06	2.20E-06
419	258435.4	4086209	6.10E-06	8.83E-05	6.51E-05	6.51E-05	3.63E-05	9.26E-07	1.35E-05	1.02E-05	1.02E-05	5.59E-06	5.03E-07	7.28E-06	4.52E-06	4.52E-06	2.24E-06
420	259464	4085088	6.24E-06	9.02E-05	6.65E-05	6.65E-05	3.71E-05	9.47E-07	1.37E-05	1.04E-05	1.04E-05	5.71E-06	5.14E-07	7.44E-06	4.62E-06	4.62E-06	2.29E-06
421	259463.3	4085063	6.36E-06	9.19E-05	6.78E-05	6.78E-05	3.78E-05	9.65E-07	1.40E-05	1.06E-05	1.06E-05	5.82E-06	5.24E-07	7.58E-06	4.71E-06	4.71E-06	2.33E-06
422	259462.6	4085039	6.51E-06	9.41E-05	6.94E-05	6.94E-05	3.87E-05	9.88E-07	1.43E-05	1.08E-05	1.08E-05	5.96E-06	5.36E-07	7.76E-06	4.82E-06	4.82E-06	2.39E-06
423	259461.8	4085014	6.68E-06	9.66E-05	7.12E-05	7.12E-05	3.97E-05	1.01E-06	1.47E-05	1.11E-05	1.11E-05	6.11E-06	5.51E-07	7.97E-06	4.95E-06	4.95E-06	2.45E-06
424	259461.1	4084989	6.89E-06	9.96E-05	7.34E-05	7.34E-05	4.09E-05	1.05E-06	1.52E-05	1.15E-05	1.15E-05	6.30E-06	5.68E-07	8.21E-06	5.10E-06	5.10E-06	2.52E-06
425	259460.4	4084964	7.12E-06	1.03E-04	7.59E-05	7.59E-05	4.23E-05	1.08E-06	1.57E-05	1.18E-05	1.18E-05	6.51E-06	5.87E-07	8.48E-06	5.27E-06	5.27E-06	2.61E-06
426	259459.7	4084939	7.37E-06	1.07E-04	7.85E-05	7.85E-05	4.38E-05	1.12E-06	1.62E-05	1.23E-05	1.23E-05	6.74E-06	6.07E-07	8.78E-06	5.46E-06	5.46E-06	2.70E-06
427	259458.9	4084915	7.62E-06	1.10E-04	8.13E-05	8.13E-05	4.53E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.98E-06	6.28E-07	9.09E-06	5.65E-06	5.65E-06	2.79E-06
428	259458.2	4084890	7.88E-06	1.14E-04	8.40E-05	8.40E-05	4.69E-05	1.20E-06	1.74E-05	1.31E-05	1.31E-05	7.21E-06	6.50E-07	9.40E-06	5.84E-06	5.84E-06	2.89E-06
429	259655.2	4085105	5.01E-06	7.25E-05	5.34E-05	5.34E-05	2.98E-05	7.61E-07	1.10E-05	8.34E-06	8.34E-06	4.59E-06	4.13E-07	5.98E-06	3.71E-06	3.71E-06	1.84E-06
430	259646.6	4085128	5.00E-06	7.24E-05	5.33E-05	5.33E-05	2.97E-05	7.59E-07	1.10E-05	8.33E-06	8.33E-06	4.58E-06	4.12E-07	5.97E-06	3.71E-06	3.71E-06	1.83E-06
431	259637.9	4085151	4.99E-06	7.22E-05	5.32E-05	5.32E-05	2.97E-05	7.58E-07	1.10E-05	8.31E-06	8.31E-06	4.57E-06	4.12E-07	5.95E-06	3.70E-06	3.70E-06	1.83E-06
432	259629.2	4085174	4.97E-06	7.18E-05	5.30E-05	5.30E-05	2.95E-05	7.54E-07	1.09E-05	8.27E-06	8.27E-06	4.55E-06	4.09E-07	5.92E-06	3.68E-06	3.68E-06	1.82E-06
433	259620.5	4085198	4.93E-06	7.14E-05	5.26E-05	5.26E-05	2.93E-05	7.49E-07	1.09E-05	8.21E-06	8.21E-06	4.52E-06	4.07E-07	5.88E-06	3.65E-06	3.65E-06	1.81E-06
434	259611.8	4085221	4.89E-06	7.07E-05	5.21E-05	5.21E-05	2.91E-05	7.42E-07	1.08E-05	8.14E-06	8.14E-06	4.47E-06	4.03E-07	5.83E-06	3.62E-06	3.62E-06	1.79E-06
435	259603.2	4085244	4.83E-06	6.99E-05	5.15E-05	5.15E-05	2.87E-05	7.33E-07	1.06E-05	8.04E-06	8.04E-06	4.42E-06	3.98E-07	5.76E-06	3.58E-06	3.58E-06	1.77E-06
436	259594.5	4085267	4.76E-06	6.88E-05	5.07E-05	5.07E-05	2.83E-05	7.22E-07	1.05E-05	7.92E-06	7.92E-06	4.35E-06	3.92E-07	5.67E-06	3.52E-06	3.52E-06	1.74E-06
437	259585.8	4085290	4.67E-06	6.76E-05	4.98E-05	4.98E-05	2.78E-05	7.09E-07	1.03E-05	7.78E-06	7.78E-06	4.28E-06	3.85E-07	5.57E-06	3.46E-06	3.46E-06	1.71E-06
438	259577.1	4085313	4.59E-06	6.63E-05	4.89E-05	4.89E-05	2.73E-05	6.96E-07	1.01E-05	7.63E-06	7.63E-06	4.20E-06	3.78E-07	5.47E-06	3.40E-06	3.40E-06	1.68E-06
439	259568.5	4085336	4.49E-06	6.50E-05	4.79E-05	4.79E-05	2.67E-05	6.82E-07	9.90E-06	7.48E-06	7.48E-06	4.11E-06	3.70E-07	5.36E-06	3.33E-06	3.33E-06	1.65E-06
440	259559.8	4085359	4.40E-06	6.37E-05	4.69E-05	4.69E-05	2.62E-05	6.68E-07	9.70E-06	7.33E-06	7.33E-06	4.03E-06	3.63E-07	5.25E-06	3.26E-06	3.26E-06	1.61E-06
441	259551.1	4085382	4.32E-06	6.24E-05	4.60E-05	4.60E-05	2.56E-05	6.55E-07	9.51E-06	7.18E-06	7.18E-06	3.95E-06	3.56E-07	5.14E-06	3.20E-06	3.20E-06	1.58E-06
442	259542.4	4085405	4.23E-06	6.12E-05	4.51E-05	4.51E-05	2.51E-05	6.42E-07	9.32E-06	7.04E-06	7.04E-06	3.87E-06	3.49E-07	5.04E-06	3.13E-06	3.13E-06	1.55E-06
443	259533.8	4085428	4.15E-06	6.01E-05	4.43E-05	4.43E-05	2.47E-05	6.30E-07	9.15E-06	6.91E-06	6.91E-06	3.80E-06	3.42E-07	4.95E-06	3.08E-06	3.08E-06	1.52E-06
444	259525.1	4085451	4.08E-06	5.90E-05	4.35E-05	4.35E-05	2.43E-05	6.19E-07	8.99E-06	6.79E-06	6.79E-06	3.74E-06	3.36E-07	4.87E-06	3.02E-06	3.02E-06	1.50E-06
445	259516.4	4085474	4.02E-06	5.81E-05	4.28E-05	4.28E-05	2.39E-05	6.10E-07	8.85E-06	6.68E-06	6.68E-06	3.68E-06	3.31E-07	4.79E-06	2.97E-06	2.97E-06	1.47E-06
446	259507.7	4085497	3.96E-06	5.73E-05	4.22E-05	4.22E-05	2.35E-05	6.01E-07	8.73E-06	6.59E-06	6.59E-06	3.62E-06	3.26E-07	4.72E-06	2.93E-06	2.93E-06	1.45E-06
447	259499	4085521	3.91E-06	5.66E-05	4.17E-05	4.17E-05	2.32E-05	5.94E-07	8.62E-06	6.51E-06	6.51E-06	3.58E-06	3.22E-07	4.66E-06	2.90E-06	2.90E-06	1.43E-06
448	259490.4	4085544	3.87E-06	5.60E-05	4.12E-05	4.12E-05	2.30E-05	5.87E-07	8.52E-06	6.44E-06	6.44E-06	3.54E-06	3.19E-07	4.61E-06	2.87E-06	2.87E-06	1.42E-06
449	259481.7	4085567	3.83E-06	5.54E-05	4.08E-05	4.08E-05	2.28E-05	5.81E-07	8.44E-06	6.37E-06	6.37E-06	3.50E-06	3.16E-07	4.57E-06	2.84E-06	2.84E-06	1.40E-06
450	259473	4085590	3.79E-06	5.49E-05	4.04E-05	4.04E-05	2.25E-05	5.76E-07	8.36E-06	6.31E-06	6.31E-06	3.47E-06	3.13E-07	4.52E-06	2.81E-06	2.81E-06	1.39E-06
451	259464.3	4085613	3.76E-06	5.44E-05	4.01E-05	4.01E-05	2.23E-05	5.70E-07	8.28E-06	6.26E-06	6.26E-06	3.44E-06	3.10E-07	4.48E-06	2.78E-06	2.78E-06	1.38E-06
452	259455.7	4085636	3.73E-06	5.39E-05	3.97E-05	3.97E-05	2.21E-05	5.65E-07	8.21E-06	6.20E-06	6.20E-06	3.41E-06	3.07E-07	4.44E-06	2.76E-06	2.76E-06	1.37E-06
453	259447	4085659	3.69E-06	5.34E-05	3.93E-05	3.93E-05	2.19E-05	5.60E-07	8.13E-06	6.14E-06	6.14E-06	3.38E-06	3.04E-07	4.40E-06	2.73E-06	2.73E-06	1.35E-06
454	259438.3	4085682	3.66E-06	5.29E-05	3.90E-05	3.90E-05	2.17E-05	5.55E-07	8.06E-06	6.09E-06	6.09E-06	3.35E-06	3.01E-07	4.36E-06	2.71E-06	2.71E-06	1.34E-06
455	259429.6	4085705	3.62E-06	5.24E-05	3.86E-05	3.86E-05	2.15E-05	5.50E-07	7.98E-06	6.03E-06	6.03E-06	3.32E-06	2.99E-07	4.32E-06	2.68E-06	2.68E-06	1.33E-06
456	259421	4085728	3.59E-06	5.19E-05	3.82E-05	3.82E-05	2.13E-05	5.44E-07	7.90E-06	5.97E-06	5.97E-06	3.28E-06	2.96E-07	4.28E-06	2.66E-06	2.66E-06	1.31E-06
457	259412.3	4085751	3.55E-06	5.13E-05	3.78E-05	3.78E-05	2.11E-05	5.38E-07	7.82E-06	5.90E-06	5.90E-06	3.25E-06	2.92E-07	4.23E-06	2.63E-06	2.63E-06	1.30E-06
458	259403.6	4085774	3.50E-06	5.07E-05	3.74E-05	3.74E-05	2.08E-05	5.32E-07	7.72E-06	5.83E-06	5.83E-06	3.21E-06	2.89E-07	4.18E-06	2.59E-06	2.59E-06	1.28E-06
459	259394.9	4085797	3.46E-06	5.00E-05	3.69E-05	3.69E-05	2.06E-05	5.25E-07	7.62E-06	5.76E-06	5.76E-06	3.17E-06	2.85E-07	4.12E-06	2.56E-06	2.56E-06	1.27E-06
460	259386.2	4085820	3.41E-06	4.93E-05	3.63E-05	3.63E-05	2.03E-05	5.17E-07	7.51E-06	5.68E-06	5.68E-06	3.12E-06	2.81E-07	4.07E-06	2.53E-06	2.53E-06	1.25E-06
461	259377.6	4085843	3.36E-06	4.86E-05	3.58E-05	3.58E-05	2.00E-05	5.10E-07	7.40E-06	5.59E-06	5.59E-06	3.07E-06	2.77E-07	4.00E-06	2.49E-06	2.49E-06	1.23E-06
462	259368.9	4085867	3.31E-06	4.78E-05	3.53E-05	3.53E-05	1.97E-05	5.02E-07	7.29E-06	5.50E-06	5.50E-06	3.03E-06	2.73E-07	3.94E-06	2.45E-06	2.45E-06	1.21E-06
463	259360.2	4085890	3.26E-06	4.71E-05	3.47E-05	3.47E-05	1.94E-05	4.94E-07	7.18E-06	5.42E-06	5.42E-06	2.98E-06	2.69E-07	3.88E-06	2.41E-06	2.41E-06	1.19E-06
464	259351.5	4085913	3.21E-06	4.65E-05	3.43E-05	3.43E-05	1.91E-05	4.88E-07	7.08E-06	5.35E-06	5.35E-06	2.94E-06	2.65E-07	3.83E-06	2.38E-06	2.38E-06	1.18E-06
465	259342.9	4085936	3.17E-06	4.58E-05	3.38E-05	3.38E-05	1.88E-05	4.81E-07	6.98E-06	5.28E-06	5.28E-06	2.90E-06	2.61E-07	3.78E-06	2.35E-06	2.35E-06	1.16E-06
466	259334.2	4085959	3.14E-06	4.53E-05	3.34E-05	3.34E-05	1.86E-05	4.76E-07	6.91E-06	5.22E-06	5.22E-06	2.87E-06	2.58E-07	3.74E-06	2.32E-06	2.32E-06	1.15E-06
467	259325.5	4085982	3.10E-06	4.49E-05	3.31E-05	3.31E-05	1.85E-05	4.71E-07	6.84E-06	5.17E-06	5.17E-06	2.84E-06	2.56E-07	3.70E-06	2.30E-06	2.30E-06	1.14E-06
468	259294.5	4086015	3.11E-06	4.50E-05	3.31E-05	3.31E-05	1.85E-05	4.72E-07	6.85E-06	5.17E-06	5.17E-06	2.84E-06	2.56E-07	3.71E-06	2.30E-06	2.30E-06	1.14E-06
469	259272.1	4086026	3.14E-06	4.54E-05	3.35E-05	3.35E-05	1.87E-05	4.77E-07	6.92E-06	5.23E-06	5.23E-06	2.87E-06	2.59E-07	3.75E-06	2.33E-06	2.33E-06	1.15E-06
470	259249.7	4086036	3.17E-06	4.59E-05	3.38E-05	3.38E-05	1.89E-05	4.82E-07	6.99E-06	5.28E-06	5.28E-06	2.90E-06	2.62E-07	3.78E-06	2.35E-06	2.35E-06	1.16E-06
471	259227.3	4086046	3.21E-06	4.64E-05	3.42E-05	3.42E-05	1.91E-05	4.87E-07	7.07E-06	5.34E-06	5.34E-06	2.94E-06	2.65E-07	3.83E-06	2.38E-06	2.38E-06	1.18E-06
472	259205	4086057	3.24E-06	4.69E-05	3.46E-05	3.46E-05	1.93E-05	4.92E-07	7.14E-06	5.40E-06	5.40E-06	2.97E-06	2.67E-07	3.86E-06	2.40E-06	2.40E-06	1.19E-06
473	259182.6	4086067	3.27E-06	4.74E-05	3.49E-05	3.49E-05	1.95E-05	4.97E-07	7.22E-06	5.45E-06	5.45E-06	3.00E-06	2.70E-07	3.90E-06	2.42E-06	2.42E-06	1.20E-06
474	259160.2	4086077	3.31E-06	4.78E-05	3.53E-05	3.53E-05	1.97E-05	5.02E-07	7.29E-06	5.50E-06	5.50E-06	3.03E-06	2.73E-07	3.94E-06	2.45E-06	2.45E-06	1.21E-06
475	259137.9	4086088	3.35E-06	4.84E-05	3.57E-05	3.57E-05	1.99E-05	5.08E-07	7.37E-06	5.57E-06	5.57E-06	3.06E-06	2.76E-07	3.99E-06	2.48E-06	2.48E-06	1.23E-06
476	259115.5	4086098	3.39E-06	4.90E-05	3.61E-05	3.61E-05	2.01E-05	5.14E-07	7.46E-06	5.64E-06	5.64E-06	3.10E-06	2.79E-07	4.04E-06	2.51E-06	2.51E-06	1.24E-06
477	259093.1	4086108	3.43E-06	4.96E-05	3.66E-05	3.66E-05	2.04E-05	5.21E-07	7.56E-06	5.71E-06	5.71E-06	3.14E-06	2.83E-07	4.09E-06	2.54E-06	2.54E-06	1.26E-06
478	259070.7	4086119	3.48E-06	5.03E-05	3.71E-05	3.71E-05	2.07E-05	5.28E-07	7.66E-06	5.79E-06	5.79E-06	3.18E-06	2.87E-07	4.15E-06	2.58E-06	2.58E-06	1.27E-06
479	259048.4	4086129	3.53E-06	5.11E-05	3.76E-05	3.76E-05	2.10E-05	5.36E-07	7.78E-06	5.88E-06	5.88E-06	3.23E-06	2.91E-07	4.21E-06	2.61E-06	2.61E-06	1.29E-06
480	259026	4086139	3.59E-06	5.19E-05	3.83E-05	3.83E-05	2.13E-05	5.45E-07	7.91E-06	5.98E-06	5.98E-06	3.29E-06	2.96E-07	4.28E-06	2.66E-06	2.66E-06	1.32E-06
481	259003.6	4086150	3.66E-06	5.29E-05	3.90E-05	3.90E-05	2.17E-05	5.55E-07	8.06E-06	6.09E-06	6.09E-06	3.35E-06	3.01E-07	4.36E-06	2.71E-06	2.71E-06	1.34E-06
482	258981.3	4086160	3.73E-06	5.40E-05	3.98E-05	3.98E-05	2.22E-05	5.67E-07	8.23E-06	6.21E-06	6.21E-06	3.42E-06	3.08E-07	4.45E-06	2.76E-06	2.76E-06	1.37E-06
483	258958.9	4086171	3.82E-06	5.52E-05	4.07E-05	4.07E-05	2.27E-05	5.79E-07	8.41E-06	6.35E-06	6.35E-06	3.49E-06	3.15E-07	4.55E-06	2.83E-06	2.83E-06	1.40E-06
484	258936.5	4086181	3.91E-06	5.65E-05	4.16E-05	4.16E-05	2.32E-05	5.93E-07	8.61E-06	6.50E-06	6.50E-06	3.57E-06	3.22E-07	4.66E-06	2.89E-06	2.89E-06	1.43E-06
485	258914.2	4086191	4.00E-06	5.78E-05	4.26E-05	4.26E-05	2.37E-05	6.06E-07	8.80E-06	6.65E-06	6.65E-06	3.66E-06	3.29E-07	4.76E-06	2.96E-06	2.96E-06	1.46E-06
486	258891.8	4086202	4.08E-06	5.91E-05	4.35E-05	4.35E-05	2.43E-05	6.20E-07	9.00E-06	6.80E-06	6.80E-06	3.74E-06	3.37E-07	4.87E-06	3.02E-06	3.02E-06	1.50E-06
487	258869.4	4086212	4.17E-06	6.03E-05	4.44E-05	4.44E-05	2.48E-05	6.33E-07	9.18E-06	6.94E-06	6.94E-06	3.81E-06	3.44E-07	4.97E-06	3.09E-06	3.09E-06	1.53E-06
488	258847	4086222	4.24E-06	6.13E-05	4.52E-05	4.52E-05	2.52E-05	6.43E-07	9.34E-06	7.06E-06	7.06E-06	3.88E-06	3.49E-07	5.05E-06	3.14E-06	3.14E-06	1.55E-06
489	258824.7	4086233	4.30E-06	6.22E-05	4.59E-05	4.59E-05	2.56E-05	6.53E-07	9.48E-06	7.16E-06	7.16E-06	3.94E-06	3.55E-07	5.13E-06	3.19E-06	3.19E-06	1.58E-06
490	258802.3	4086243	4.35E-06	6.30E-05	4.64E-05	4.64E-05	2.59E-05	6.61E-07	9.59E-06	7.25E-06	7.25E-06	3.98E-06	3.59E-07	5.19E-06	3.22E-06	3.22E-06	1.60E-06
491	258779.9	4086253	4.40E-06	6.36E-05	4.69E-05	4.69E-05	2.61E-05	6.67E-07	9.69E-06	7.32E-06	7.32E-06	4.02E-06	3.62E-07	5.24E-06	3.26E-06	3.26E-06	1.61E-06
492	258757.6	4086264	4.43E-06	6.41E-05	4.72E-05	4.72E-05	2.63E-05	6.72E-07	9.76E-06	7.37E-06	7.37E-06	4.05E-06	3.65E-07	5.28E-06	3.28E-06	3.28E-06	1.62E-06
493	258735.2	4086274	4.46E-06	6.45E-05	4.76E-05	4.76E-05	2.65E-05	6.77E-07	9.83E-06	7.43E-06	7.43E-06	4.08E-06	3.68E-07	5.32E-06	3.30E-06	3.30E-06	1.64E-06
494	258712.8	4086284	4.49E-06	6.49E-05	4.78E-05	4.78E-05	2.67E-05	6.81E-07	9.89E-06	7.47E-06	7.47E-06	4.11E-06	3.70E-07	5.35E-06	3.32E-06	3.32E-06	1.64E-06
495	258690.4	4086295	4.51E-06	6.53E-05	4.81E-05	4.81E-05	2.68E-05	6.85E-07	9.95E-06	7.51E-06	7.51E-06	4.13E-06	3.72E-07	5.38E-06	3.34E-06	3.34E-06	1.65E-06
496	258668.1	4086305	4.54E-06	6.57E-05	4.85E-05	4.85E-05	2.70E-05	6.90E-07	1.00E-05	7.56E-06	7.56E-06	4.16E-06	3.75E-07	5.42E-06	3.37E-06	3.37E-06	1.67E-06
497	258645.7	4086315	4.58E-06	6.62E-05	4.88E-05	4.88E-05	2.72E-05	6.95E-07	1.01E-05	7.62E-06	7.62E-06	4.19E-06	3.77E-07	5.46E-06	3.39E-06	3.39E-06	1.68E-06
498	258623.3	4086326	4.62E-06	6.68E-05	4.92E-05	4.92E-05	2.74E-05	7.01E-07	1.02E-05	7.68E-06	7.68E-06	4.22E-06	3.81E-07	5.50E-06	3.42E-06	3.42E-06	1.69E-06
499	258601	4086336	4.66E-06	6.74E-05	4.97E-05	4.97E-05	2.77E-05	7.07E-07	1.03E-05	7.76E-06	7.76E-06	4.26E-06	3.84E-07	5.56E-06	3.45E-06	3.45E-06	1.71E-06
500	258578.6	4086346	4.71E-06	6.81E-05	5.02E-05	5.02E-05	2.80E-05	7.15E-07	1.04E-05	7.84E-06	7.84E-06	4.31E-06	3.88E-07	5.61E-06	3.49E-06	3.49E-06	1.73E-06
501	258556.2	4086357	4.76E-06	6.88E-05	5.07E-05	5.07E-05	2.83E-05	7.22E-07	1.05E-05	7.92E-06	7.92E-06	4.36E-06	3.92E-07	5.68E-06	3.53E-06	3.53E-06	1.74E-06
502	258533.8	4086367	4.82E-06	6.96E-05	5.13E-05	5.13E-05	2.86E-05	7.31E-07	1.06E-05	8.02E-06	8.02E-06	4.41E-06	3.97E-07	5.74E-06	3.57E-06	3.57E-06	1.77E-06
503	258511.5	4086377	4.87E-06	7.05E-05	5.19E-05	5.19E-05	2.90E-05	7.40E-07	1.07E-05	8.11E-06	8.11E-06	4.46E-06	4.02E-07	5.81E-06	3.61E-06	3.61E-06	1.79E-06
504	258489.1	4086388	4.93E-06	7.13E-05	5.26E-05	5.26E-05	2.93E-05	7.49E-07	1.09E-05	8.21E-06	8.21E-06	4.51E-06	4.07E-07	5.88E-06	3.65E-06	3.65E-06	1.81E-06
505	258466.7	4086398	4.99E-06	7.22E-05	5.32E-05	5.32E-05	2.97E-05	7.58E-07	1.10E-05	8.31E-06	8.31E-06	4.57E-06	4.12E-07	5.95E-06	3.70E-06	3.70E-06	1.83E-06
506	258444.4	4086408	5.05E-06	7.31E-05	5.39E-05	5.39E-05	3.00E-05	7.67E-07	1.11E-05	8.41E-06	8.41E-06	4.62E-06	4.17E-07	6.02E-06	3.74E-06	3.74E-06	1.85E-06
507	259663.9	4085082	5.03E-06	7.27E-05	5.36E-05	5.36E-05	2.99E-05	7.63E-07	1.11E-05	8.37E-06	8.37E-06	4.60E-06	4.14E-07	5.99E-06	3.72E-06	3.72E-06	1.84E-06
508	259663.2	4085057	5.10E-06	7.38E-05	5.44E-05	5.44E-05	3.03E-05	7.74E-07	1.12E-05	8.49E-06	8.49E-06	4.67E-06	4.21E-07	6.08E-06	3.78E-06	3.78E-06	1.87E-06
509	259662.5	4085033	5.20E-06	7.52E-05	5.54E-05	5.54E-05	3.09E-05	7.89E-07	1.15E-05	8.65E-06	8.65E-06	4.76E-06	4.28E-07	6.20E-06	3.85E-06	3.85E-06	1.90E-06
510	259661.7	4085008	5.31E-06	7.68E-05	5.66E-05	5.66E-05	3.16E-05	8.06E-07	1.17E-05	8.84E-06	8.84E-06	4.86E-06	4.38E-07	6.33E-06	3.93E-06	3.93E-06	1.95E-06
511	259661	4084983	5.45E-06	7.88E-05	5.81E-05	5.81E-05	3.24E-05	8.27E-07	1.20E-05	9.07E-06	9.07E-06	4.99E-06	4.49E-07	6.50E-06	4.04E-06	4.04E-06	2.00E-06

512	259660.3	4084958	5.61E-06	8.11E-05	5.98E-05	5.98E-05	3.33E-05	8.51E-07	1.24E-05	9.34E-06	9.34E-06	5.13E-06	4.62E-07	6.69E-06	4.15E-06	4.15E-06	2.06E-06
513	259659.6	4084934	5.79E-06	8.37E-05	6.17E-05	6.17E-05	3.44E-05	8.79E-07	1.28E-05	9.64E-06	9.64E-06	5.30E-06	4.77E-07	6.90E-06	4.29E-06	4.29E-06	2.12E-06
514	259658.9	4084909	5.97E-06	8.64E-05	6.37E-05	6.37E-05	3.55E-05	9.07E-07	1.32E-05	9.94E-06	9.94E-06	5.47E-06	4.92E-07	7.12E-06	4.42E-06	4.42E-06	2.19E-06
515	259658.1	4084884	6.16E-06	8.91E-05	6.56E-05	6.56E-05	3.66E-05	9.35E-07	1.36E-05	1.02E-05	1.02E-05	5.63E-06	5.08E-07	7.34E-06	4.56E-06	4.56E-06	2.26E-06
516	259855.1	4085100	4.19E-06	6.06E-05	4.47E-05	4.47E-05	2.49E-05	6.36E-07	9.23E-06	6.97E-06	6.97E-06	3.83E-06	3.45E-07	5.00E-06	3.10E-06	3.10E-06	1.54E-06
517	259846.4	4085123	4.19E-06	6.06E-05	4.46E-05	4.46E-05	2.49E-05	6.36E-07	9.23E-06	6.97E-06	6.97E-06	3.83E-06	3.45E-07	4.99E-06	3.10E-06	3.10E-06	1.54E-06
518	259837.7	4085146	4.19E-06	6.06E-05	4.46E-05	4.46E-05	2.49E-05	6.36E-07	9.23E-06	6.97E-06	6.97E-06	3.83E-06	3.45E-07	4.99E-06	3.10E-06	3.10E-06	1.54E-06
519	259829	4085169	4.18E-06	6.05E-05	4.46E-05	4.46E-05	2.49E-05	6.35E-07	9.22E-06	6.96E-06	6.96E-06	3.83E-06	3.45E-07	4.99E-06	3.10E-06	3.10E-06	1.53E-06
520	259820.3	4085192	4.17E-06	6.04E-05	4.45E-05	4.45E-05	2.48E-05	6.33E-07	9.20E-06	6.95E-06	6.95E-06	3.82E-06	3.44E-07	4.98E-06	3.09E-06	3.09E-06	1.53E-06
521	259811.6	4085215	4.16E-06	6.01E-05	4.43E-05	4.43E-05	2.47E-05	6.31E-07	9.16E-06	6.92E-06	6.92E-06	3.80E-06	3.43E-07	4.95E-06	3.08E-06	3.08E-06	1.52E-06
522	259802.9	4085238	4.12E-06	5.97E-05	4.40E-05	4.40E-05	2.45E-05	6.26E-07	9.09E-06	6.87E-06	6.87E-06	3.77E-06	3.40E-07	4.92E-06	3.05E-06	3.05E-06	1.51E-06
523	259794.2	4085262	4.08E-06	5.90E-05	4.35E-05	4.35E-05	2.43E-05	6.19E-07	8.99E-06	6.79E-06	6.79E-06	3.74E-06	3.36E-07	4.87E-06	3.02E-06	3.02E-06	1.50E-06
524	259785.5	4085285	4.03E-06	5.82E-05	4.29E-05	4.29E-05	2.39E-05	6.11E-07	8.87E-06	6.70E-06	6.70E-06	3.68E-06	3.32E-07	4.80E-06	2.98E-06	2.98E-06	1.48E-06
525	259776.8	4085308	3.96E-06	5.73E-05	4.22E-05	4.22E-05	2.36E-05	6.01E-07	8.73E-06	6.60E-06	6.60E-06	3.63E-06	3.27E-07	4.72E-06	2.93E-06	2.93E-06	1.45E-06
526	259768.1	4085331	3.90E-06	5.63E-05	4.15E-05	4.15E-05	2.32E-05	5.91E-07	8.58E-06	6.48E-06	6.48E-06	3.56E-06	3.21E-07	4.64E-06	2.88E-06	2.88E-06	1.43E-06
527	259759.4	4085354	3.82E-06	5.53E-05	4.08E-05	4.08E-05	2.27E-05	5.80E-07	8.43E-06	6.36E-06	6.36E-06	3.50E-06	3.15E-07	4.56E-06	2.83E-06	2.83E-06	1.40E-06
528	259750.6	4085377	3.75E-06	5.43E-05	4.00E-05	4.00E-05	2.23E-05	5.70E-07	8.27E-06	6.25E-06	6.25E-06	3.44E-06	3.09E-07	4.48E-06	2.78E-06	2.78E-06	1.38E-06
529	259741.9	4085400	3.68E-06	5.33E-05	3.93E-05	3.93E-05	2.19E-05	5.59E-07	8.12E-06	6.13E-06	6.13E-06	3.37E-06	3.04E-07	4.39E-06	2.73E-06	2.73E-06	1.35E-06
530	259733.2	4085424	3.62E-06	5.23E-05	3.86E-05	3.86E-05	2.15E-05	5.49E-07	7.97E-06	6.02E-06	6.02E-06	3.31E-06	2.98E-07	4.31E-06	2.68E-06	2.68E-06	1.33E-06
531	259724.5	4085447	3.55E-06	5.14E-05	3.79E-05	3.79E-05	2.11E-05	5.39E-07	7.83E-06	5.91E-06	5.91E-06	3.25E-06	2.93E-07	4.24E-06	2.63E-06	2.63E-06	1.30E-06
532	259715.8	4085470	3.49E-06	5.05E-05	3.72E-05	3.72E-05	2.08E-05	5.30E-07	7.70E-06	5.82E-06	5.82E-06	3.20E-06	2.88E-07	4.17E-06	2.59E-06	2.59E-06	1.28E-06
533	259707.1	4085493	3.44E-06	4.97E-05	3.67E-05	3.67E-05	2.04E-05	5.22E-07	7.58E-06	5.72E-06	5.72E-06	3.15E-06	2.83E-07	4.10E-06	2.55E-06	2.55E-06	1.26E-06
534	259698.4	4085516	3.39E-06	4.90E-05	3.61E-05	3.61E-05	2.01E-05	5.14E-07	7.47E-06	5.64E-06	5.64E-06	3.10E-06	2.79E-07	4.04E-06	2.51E-06	2.51E-06	1.24E-06
535	259689.7	4085539	3.34E-06	4.83E-05	3.56E-05	3.56E-05	1.99E-05	5.07E-07	7.36E-06	5.56E-06	5.56E-06	3.06E-06	2.75E-07	3.98E-06	2.48E-06	2.48E-06	1.23E-06
536	259681	4085562	3.31E-06	4.78E-05	3.53E-05	3.53E-05	1.97E-05	5.02E-07	7.29E-06	5.50E-06	5.50E-06	3.03E-06	2.73E-07	3.94E-06	2.45E-06	2.45E-06	1.21E-06
537	259672.3	4085586	3.27E-06	4.73E-05	3.49E-05	3.49E-05	1.94E-05	4.96E-07	7.21E-06	5.44E-06	5.44E-06	2.99E-06	2.70E-07	3.90E-06	2.42E-06	2.42E-06	1.20E-06
538	259663.6	4085609	3.24E-06	4.69E-05	3.45E-05	3.45E-05	1.93E-05	4.92E-07	7.14E-06	5.39E-06	5.39E-06	2.96E-06	2.67E-07	3.86E-06	2.40E-06	2.40E-06	1.19E-06
539	259654.9	4085632	3.21E-06	4.65E-05	3.43E-05	3.43E-05	1.91E-05	4.88E-07	7.08E-06	5.35E-06	5.35E-06	2.94E-06	2.65E-07	3.83E-06	2.38E-06	2.38E-06	1.18E-06
540	259646.2	4085655	3.19E-06	4.61E-05	3.40E-05	3.40E-05	1.90E-05	4.84E-07	7.03E-06	5.31E-06	5.31E-06	2.92E-06	2.63E-07	3.80E-06	2.36E-06	2.36E-06	1.17E-06
541	259637.5	4085678	3.17E-06	4.58E-05	3.38E-05	3.38E-05	1.88E-05	4.81E-07	6.98E-06	5.27E-06	5.27E-06	2.90E-06	2.61E-07	3.78E-06	2.35E-06	2.35E-06	1.16E-06
542	259628.8	4085701	3.15E-06	4.55E-05	3.35E-05	3.35E-05	1.87E-05	4.77E-07	6.93E-06	5.24E-06	5.24E-06	2.88E-06	2.59E-07	3.75E-06	2.33E-06	2.33E-06	1.15E-06
543	259620.1	4085724	3.12E-06	4.52E-05	3.33E-05	3.33E-05	1.86E-05	4.74E-07	6.88E-06	5.20E-06	5.20E-06	2.86E-06	2.57E-07	3.72E-06	2.31E-06	2.31E-06	1.14E-06
544	259611.4	4085748	3.09E-06	4.48E-05	3.30E-05	3.30E-05	1.84E-05	4.70E-07	6.82E-06	5.15E-06	5.15E-06	2.83E-06	2.55E-07	3.69E-06	2.29E-06	2.29E-06	1.13E-06
545	259602.6	4085771	3.07E-06	4.45E-05	3.28E-05	3.28E-05	1.83E-05	4.66E-07	6.77E-06	5.12E-06	5.12E-06	2.81E-06	2.53E-07	3.66E-06	2.28E-06	2.28E-06	1.13E-06
546	259593.9	4085794	3.05E-06	4.41E-05	3.25E-05	3.25E-05	1.81E-05	4.63E-07	6.72E-06	5.08E-06	5.08E-06	2.79E-06	2.51E-07	3.64E-06	2.26E-06	2.26E-06	1.12E-06
547	259585.2	4085817	3.03E-06	4.38E-05	3.23E-05	3.23E-05	1.80E-05	4.59E-07	6.67E-06	5.04E-06	5.04E-06	2.77E-06	2.49E-07	3.61E-06	2.24E-06	2.24E-06	1.11E-06
548	259576.5	4085840	3.00E-06	4.34E-05	3.20E-05	3.20E-05	1.78E-05	4.56E-07	6.61E-06	5.00E-06	5.00E-06	2.75E-06	2.47E-07	3.58E-06	2.22E-06	2.22E-06	1.10E-06
549	259567.8	4085863	2.97E-06	4.30E-05	3.17E-05	3.17E-05	1.77E-05	4.51E-07	6.55E-06	4.95E-06	4.95E-06	2.72E-06	2.45E-07	3.54E-06	2.20E-06	2.20E-06	1.09E-06
550	259559.1	4085887	2.94E-06	4.25E-05	3.13E-05	3.13E-05	1.75E-05	4.46E-07	6.48E-06	4.89E-06	4.89E-06	2.69E-06	2.42E-07	3.51E-06	2.18E-06	2.18E-06	1.08E-06
551	259550.4	4085910	2.91E-06	4.20E-05	3.10E-05	3.10E-05	1.73E-05	4.41E-07	6.40E-06	4.84E-06	4.84E-06	2.66E-06	2.40E-07	3.46E-06	2.15E-06	2.15E-06	1.07E-06
552	259541.7	4085933	2.87E-06	4.15E-05	3.06E-05	3.06E-05	1.71E-05	4.35E-07	6.32E-06	4.78E-06	4.78E-06	2.63E-06	2.36E-07	3.42E-06	2.12E-06	2.12E-06	1.05E-06
553	259533	4085956	2.83E-06	4.09E-05	3.02E-05	3.02E-05	1.68E-05	4.29E-07	6.24E-06	4.71E-06	4.71E-06	2.59E-06	2.33E-07	3.37E-06	2.10E-06	2.10E-06	1.04E-06
554	259524.3	4085979	2.79E-06	4.04E-05	2.98E-05	2.98E-05	1.66E-05	4.24E-07	6.15E-06	4.65E-06	4.65E-06	2.55E-06	2.30E-07	3.33E-06	2.07E-06	2.07E-06	1.02E-06
555	259515.6	4086002	2.75E-06	3.98E-05	2.94E-05	2.94E-05	1.64E-05	4.18E-07	6.07E-06	4.58E-06	4.58E-06	2.52E-06	2.27E-07	3.28E-06	2.04E-06	2.04E-06	1.01E-06
556	259506.9	4086025	2.72E-06	3.93E-05	2.90E-05	2.90E-05	1.62E-05	4.13E-07	5.99E-06	4.53E-06	4.53E-06	2.49E-06	2.24E-07	3.24E-06	2.01E-06	2.01E-06	9.97E-07
557	259498.2	4086049	2.69E-06	3.89E-05	2.86E-05	2.86E-05	1.60E-05	4.08E-07	5.92E-06	4.47E-06	4.47E-06	2.46E-06	2.21E-07	3.20E-06	1.99E-06	1.99E-06	9.85E-07
558	259489.5	4086072	2.66E-06	3.85E-05	2.84E-05	2.84E-05	1.58E-05	4.04E-07	5.86E-06	4.43E-06	4.43E-06	2.43E-06	2.19E-07	3.17E-06	1.97E-06	1.97E-06	9.75E-07
559	259480.8	4086095	2.64E-06	3.81E-05	2.81E-05	2.81E-05	1.57E-05	4.00E-07	5.81E-06	4.39E-06	4.39E-06	2.41E-06	2.17E-07	3.14E-06	1.95E-06	1.95E-06	9.66E-07
560	259472.1	4086118	2.61E-06	3.78E-05	2.79E-05	2.79E-05	1.55E-05	3.97E-07	5.76E-06	4.35E-06	4.35E-06	2.39E-06	2.15E-07	3.11E-06	1.93E-06	1.93E-06	9.58E-07
561	259440.9	4086152	2.61E-06	3.78E-05	2.79E-05	2.79E-05	1.55E-05	3.97E-07	5.76E-06	4.35E-06	4.35E-06	2.39E-06	2.16E-07	3.12E-06	1.94E-06	1.94E-06	9.58E-07
562	259418.5	4086162	2.64E-06	3.82E-05	2.81E-05	2.81E-05	1.57E-05	4.01E-07	5.82E-06	4.39E-06	4.39E-06	2.42E-06	2.18E-07	3.15E-06	1.95E-06	1.95E-06	9.67E-07
563	259396	4086172	2.67E-06	3.86E-05	2.84E-05	2.84E-05	1.58E-05	4.05E-07	5.87E-06	4.44E-06	4.44E-06	2.44E-06	2.20E-07	3.18E-06	1.97E-06	1.97E-06	9.77E-07
564	259373.6	4086183	2.69E-06	3.89E-05	2.87E-05	2.87E-05	1.60E-05	4.09E-07	5.93E-06	4.48E-06	4.48E-06	2.46E-06	2.22E-07	3.21E-06	1.99E-06	1.99E-06	9.87E-07
565	259351.1	4086193	2.72E-06	3.94E-05	2.90E-05	2.90E-05	1.62E-05	4.13E-07	6.00E-06	4.53E-06	4.53E-06	2.49E-06	2.24E-07	3.24E-06	2.02E-06	2.02E-06	9.98E-07
566	259328.7	4086203	2.75E-06	3.97E-05	2.93E-05	2.93E-05	1.63E-05	4.17E-07	6.05E-06	4.57E-06	4.57E-06	2.51E-06	2.26E-07	3.28E-06	2.03E-06	2.03E-06	1.01E-06
567	259306.2	4086214	2.78E-06	4.02E-05	2.96E-05	2.96E-05	1.65E-05	4.21E-07	6.12E-06	4.62E-06	4.62E-06	2.54E-06	2.29E-07	3.31E-06	2.06E-06	2.06E-06	1.02E-06
568	259283.8	4086224	2.81E-06	4.06E-05	2.99E-05	2.99E-05	1.67E-05	4.26E-07	6.18E-06	4.67E-06	4.67E-06	2.57E-06	2.31E-07	3.34E-06	2.08E-06	2.08E-06	1.03E-06
569	259261.3	4086235	2.84E-06	4.10E-05	3.02E-05	3.02E-05	1.69E-05	4.30E-07	6.25E-06	4.72E-06	4.72E-06	2.60E-06	2.34E-07	3.38E-06	2.10E-06	2.10E-06	1.04E-06
570	259238.9	4086245	2.87E-06	4.15E-05	3.06E-05	3.06E-05	1.71E-05	4.35E-07	6.32E-06	4.78E-06	4.78E-06	2.63E-06	2.36E-07	3.42E-06	2.12E-06	2.12E-06	1.05E-06
571	259216.4	4086255	2.90E-06	4.20E-05	3.10E-05	3.10E-05	1.73E-05	4.41E-07	6.40E-06	4.83E-06	4.83E-06	2.66E-06	2.39E-07	3.46E-06	2.15E-06	2.15E-06	1.06E-06
572	259194	4086266	2.94E-06	4.25E-05	3.13E-05	3.13E-05	1.75E-05	4.46E-07	6.48E-06	4.89E-06	4.89E-06	2.69E-06	2.42E-07	3.51E-06	2.18E-06	2.18E-06	1.08E-06
573	259171.6	4086276	2.98E-06	4.31E-05	3.18E-05	3.18E-05	1.77E-05	4.52E-07	6.57E-06	4.96E-06	4.96E-06	2.73E-06	2.46E-07	3.55E-06	2.21E-06	2.21E-06	1.09E-06
574	259149.1	4086286	3.03E-06	4.38E-05	3.23E-05	3.23E-05	1.80E-05	4.59E-07	6.67E-06	5.04E-06	5.04E-06	2.77E-06	2.49E-07	3.61E-06	2.24E-06	2.24E-06	1.11E-06
575	259126.7	4086297	3.08E-06	4.45E-05	3.28E-05	3.28E-05	1.83E-05	4.67E-07	6.78E-06	5.12E-06	5.12E-06	2.81E-06	2.54E-07	3.67E-06	2.28E-06	2.28E-06	1.13E-06
576	259104.2	4086307	3.13E-06	4.53E-05	3.34E-05	3.34E-05	1.86E-05	4.75E-07	6.90E-06	5.21E-06	5.21E-06	2.87E-06	2.58E-07	3.73E-06	2.32E-06	2.32E-06	1.15E-06
577	259081.8	4086318	3.19E-06	4.62E-05	3.40E-05	3.40E-05	1.90E-05	4.85E-07	7.03E-06	5.31E-06	5.31E-06	2.92E-06	2.63E-07	3.81E-06	2.36E-06	2.36E-06	1.17E-06
578	259059.3	4086328	3.26E-06	4.71E-05	3.47E-05	3.47E-05	1.94E-05	4.94E-07	7.18E-06	5.42E-06	5.42E-06	2.98E-06	2.69E-07	3.88E-06	2.41E-06	2.41E-06	1.19E-06
579	259036.9	4086338	3.33E-06	4.81E-05	3.55E-05	3.55E-05	1.98E-05	5.05E-07	7.33E-06	5.54E-06	5.54E-06	3.05E-06	2.74E-07	3.97E-06	2.46E-06	2.46E-06	1.22E-06
580	259014.4	4086349	3.40E-06	4.92E-05	3.62E-05	3.62E-05	2.02E-05	5.16E-07	7.49E-06	5.66E-06	5.66E-06	3.11E-06	2.80E-07	4.05E-06	2.52E-06	2.52E-06	1.25E-06
581	258992	4086359	3.47E-06	5.02E-05	3.70E-05	3.70E-05	2.06E-05	5.27E-07	7.65E-06	5.78E-06	5.78E-06	3.18E-06	2.86E-07	4.14E-06	2.57E-06	2.57E-06	1.27E-06
582	258969.5	4086370	3.54E-06	5.12E-05	3.77E-05	3.77E-05	2.10E-05	5.37E-07	7.80E-06	5.89E-06	5.89E-06	3.24E-06	2.92E-07	4.22E-06	2.62E-06	2.62E-06	1.30E-06
583	258947.1	4086380	3.60E-06	5.21E-05	3.84E-05	3.84E-05	2.14E-05	5.47E-07	7.94E-06	6.00E-06	6.00E-06	3.30E-06	2.97E-07	4.29E-06	2.67E-06	2.67E-06	1.32E-06
584	258924.6	4086390	3.66E-06	5.29E-05	3.90E-05	3.90E-05	2.17E-05	5.55E-07	8.05E-06	6.08E-06	6.08E-06	3.35E-06	3.01E-07	4.36E-06	2.71E-06	2.71E-06	1.34E-06
585	258902.2	4086401	3.70E-06	5.35E-05	3.95E-05	3.95E-05	2.20E-05	5.62E-07	8.15E-06	6.16E-06	6.16E-06	3.39E-06	3.05E-07	4.41E-06	2.74E-06	2.74E-06	1.36E-06
586	258879.8	4086411	3.74E-06	5.41E-05	3.98E-05	3.98E-05	2.22E-05	5.67E-07	8.24E-06	6.22E-06	6.22E-06	3.42E-06	3.08E-07	4.46E-06	2.77E-06	2.77E-06	1.37E-06
587	258857.3	4086421	3.77E-06	5.45E-05	4.02E-05	4.02E-05	2.24E-05	5.72E-07	8.30E-06	6.27E-06	6.27E-06	3.45E-06	3.10E-07	4.49E-06	2.79E-06	2.79E-06	1.38E-06
588	258834.9	4086432	3.79E-06	5.48E-05	4.04E-05	4.04E-05	2.25E-05	5.75E-07	8.35E-06	6.31E-06	6.31E-06	3.47E-06	3.12E-07	4.52E-06	2.81E-06	2.81E-06	1.39E-06
589	258812.4	4086442	3.81E-06	5.51E-05	4.06E-05	4.06E-05	2.26E-05	5.78E-07	8.39E-06	6.34E-06	6.34E-06	3.49E-06	3.14E-07	4.54E-06	2.82E-06	2.82E-06	1.40E-06
590	258790	4086453	3.83E-06	5.53E-05	4.08E-05	4.08E-05	2.27E-05	5.81E-07	8.43E-06	6.37E-06	6.37E-06	3.50E-06	3.15E-07	4.56E-06	2.83E-06	2.83E-06	1.40E-06
591	258767.5	4086463	3.84E-06	5.56E-05	4.10E-05	4.10E-05	2.28E-05	5.83E-07	8.47E-06	6.40E-06	6.40E-06	3.52E-06	3.17E-07	4.58E-06	2.85E-06	2.85E-06	1.41E-06
592	258745.1	4086473	3.86E-06	5.59E-05	4.12E-05	4.12E-05	2.30E-05	5.86E-07	8.51E-06	6.43E-06	6.43E-06	3.53E-06	3.18E-07	4.61E-06	2.86E-06	2.86E-06	1.42E-06
593	258722.6	4086484	3.88E-06	5.62E-05	4.14E-05	4.14E-05	2.31E-05	5.89E-07	8.56E-06	6.46E-06	6.46E-06	3.55E-06	3.20E-07	4.63E-06	2.88E-06	2.88E-06	1.42E-06
594	258700.2	4086494	3.91E-06	5.65E-05	4.16E-05	4.16E-05	2.32E-05	5.93E-07	8.61E-06	6.50E-06	6.50E-06	3.57E-06	3.22E-07	4.66E-06	2.89E-06	2.89E-06	1.43E-06
595	258677.7	4086504	3.93E-06	5.69E-05	4.19E-05	4.19E-05	2.34E-05	5.97E-07	8.66E-06	6.55E-06	6.55E-06	3.60E-06	3.24E-07	4.69E-06	2.91E-06	2.91E-06	1.44E-06
596	258655.3	4086515	3.96E-06	5.73E-05	4.22E-05	4.22E-05	2.36E-05	6.01E-07	8.73E-06	6.60E-06	6.60E-06	3.63E-06	3.27E-07	4.72E-06	2.93E-06	2.93E-06	1.45E-06
597	258632.8	4086525	4.00E-06	5.78E-05	4.26E-05	4.26E-05	2.37E-05	6.06E-07	8.80E-06	6.65E-06	6.65E-06	3.66E-06	3.29E-07	4.76E-06	2.96E-06	2.96E-06	1.46E-06
598	258610.4	4086536	4.03E-06	5.83E-05	4.30E-05	4.30E-05	2.40E-05	6.12E-07	8.88E-06	6.71E-06	6.71E-06	3.69E-06	3.32E-07	4.81E-06	2.98E-06	2.98E-06	1.48E-06
599	258588	4086546	4.07E-06	5.89E-05	4.34E-05	4.34E-05	2.42E-05	6.18E-07	8.97E-06	6.77E-06	6.77E-06	3.72E-06	3.35E-07	4.85E-06	3.01E-06	3.01E-06	1.49E-06
600	258565.5	4086556	4.11E-06	5.95E-05	4.38E-05	4.38E-05	2.44E-05	6.24E-07	9.06E-06	6.84E-06	6.84E-06	3.76E-06	3.39E-07	4.90E-06	3.04E-06	3.04E-06	1.51E-06
601	258543.1	4086567	4.15E-06	6.01E-05	4.43E-05	4.43E-05	2.47E-05	6.30E-07	9.15E-06	6.91E-06	6.91E-06	3.80E-06	3.42E-07	4.95E-06	3.08E-06	3.08E-06	1.52E-06
602	258520.6	4086577	4.20E-06	6.07E-05	4.47E-05	4.47E-05	2.49E-05	6.37E-07	9.25E-06	6.99E-06	6.99E-06	3.84E-06	3.46E-07	5.00E-06	3.11E-06	3.11E-06	1.54E-06
603	258498.2	4086588	4.24E-06	6.13E-05	4.52E-05	4.52E-05	2.52E-05	6.43E-07	9.34E-06	7.06E-06	7.06E-06	3.88E-06	3.49E-07	5.05E-06	3.14E-06	3.14E-06	1.55E-06
604	258475.7	4086598	4.28E-06	6.19E-05	4.56E-05	4.56E-05	2.54E-05	6.50E-07	9.43E-06	7.12E-06	7.12E-06	3.92E-06	3.53E-07	5.10E-06	3.17E-06	3.17E-06	1.57E-06
605	258453.3	4086608	4.32E-06	6.25E-05	4.60E-05	4.60E-05	2.57E-05	6.56E-07	9.52E-06	7.19E-06	7.19E-06	3.95E-06	3.56E-07	5.15E-06	3.20E-06	3.20E-06	1.58E-06
606	259863.8	4085076	4.20E-06	6.07E-05	4.47E-05	4.47E-05	2.49E-05	6.37E-07	9.25E-06	6.99E-06	6.99E-06	3.84E-06	3.46E-07	5.00E-06	3.11E-06	3.11E-06	1.54E-06
607	259863.1	4085052	4.25E-06	6.14E-05	4.53E-05	4.53E-05	2.52E-05	6.45E-07	9.36E-06	7.07E-06	7.07E-06	3.89E-06	3.50E-07	5.06E-06	3.15E-06	3.15E-06	1.56E-06
608	259862.4	4085027	4.31E-06	6.24E-05	4.60E-05	4.60E-05	2.56E-05	6.55E-07	9.50E-06	7.18E-06	7.18E-06	3.95E-06	3.56E-07	5.14E-06	3.19E-06	3.19E-06	1.58E-06
609	259861.7	4085002	4.40E-06	6.36E-05	4.69E-05	4.69E-05	2.61E-05	6.68E-07	9.69E-06	7.32E-06	7.32E-06	4.03E-06	3.63E-07	5.25E-06	3.26E-06	3.26E-06	1.61E-06
610	259860.9	4084977	4.50E-06	6.51E-05	4.80E-05	4.80E-05	2.68E-05	6.84E-07	9.92E-06	7.50E-06	7.50E-06	4.12E-06	3.71E-07	5.37E-06	3.34E-06	3.34E-06	1.65E-06
611	259860.2	4084953	4.62E-06	6.69E-05	4.93E-05	4.93E-05	2.75E-05	7.02E-07	1.02E-05	7.69E-06	7.69E-06	4.23E-06	3.81E-07	5.51E-06	3.42E-06	3.42E-06	1.69E-06
612	259859.5	4084928	4.76E-06	6.88E-05	5.07E-05	5.07E-05	2.83E-05	7.22E-07	1.05E-05	7.92E-06	7.92E-06	4.35E-06	3.92E-07	5.67E-06	3.52E-06	3.52E-06	1.74E-06
613	259858.8	4084903	4.90E-06	7.08E-05	5.22E-05	5.22E-05	2.91E-05	7.43E-07	1.08E-05	8.15E-06	8.15E-06	4.48E-06	4.04E-07	5.84E-06	3.63E-06	3.63E-06	1.80E-06
614	259858	4084878	5.04E-06	7.29E-05	5.37E-05	5.37E-05	2.99E-05	7.65E-07	1.11E-05	8.39E-06	8.39E-06	4.61E-06	4.15E-07	6.01E-06	3.73E-06	3.73E-06	1.85E-06

615	258357.7	4084897	4.89E-04	7.07E-03	5.21E-03	5.21E-03	2.90E-03	7.42E-05	1.08E-03	8.14E-04	8.14E-04	4.47E-04	4.03E-05	5.83E-04	3.62E-04	3.62E-04	1.79E-04
616	258333.3	4084898	5.12E-04	7.40E-03	5.45E-03	5.45E-03	3.04E-03	7.77E-05	1.13E-03	8.52E-04	8.52E-04	4.68E-04	4.22E-05	6.10E-04	3.79E-04	3.79E-04	1.88E-04
617	258309	4084899	5.24E-04	7.57E-03	5.58E-03	5.58E-03	3.11E-03	7.95E-05	1.15E-03	8.71E-04	8.71E-04	4.79E-04	4.32E-05	6.24E-04	3.88E-04	3.88E-04	1.92E-04
618	258284.7	4084900	5.31E-04	7.68E-03	5.66E-03	5.66E-03	3.16E-03	8.06E-05	1.17E-03	8.84E-04	8.84E-04	4.86E-04	4.38E-05	6.33E-04	3.93E-04	3.93E-04	1.95E-04
619	258260.3	4084901	5.37E-04	7.76E-03	5.72E-03	5.72E-03	3.19E-03	8.15E-05	1.18E-03	8.94E-04	8.94E-04	4.91E-04	4.42E-05	6.40E-04	3.98E-04	3.98E-04	1.97E-04
620	258236	4084902	5.41E-04	7.82E-03	5.76E-03	5.76E-03	3.21E-03	8.20E-05	1.19E-03	9.00E-04	9.00E-04	4.95E-04	4.46E-05	6.45E-04	4.00E-04	4.00E-04	1.98E-04
621	258211.7	4084903	5.43E-04	7.85E-03	5.79E-03	5.79E-03	3.23E-03	8.24E-05	1.20E-03	9.04E-04	9.04E-04	4.97E-04	4.47E-05	6.47E-04	4.02E-04	4.02E-04	1.99E-04
622	258187.3	4084904	5.44E-04	7.87E-03	5.80E-03	5.80E-03	3.23E-03	8.26E-05	1.20E-03	9.06E-04	9.06E-04	4.98E-04	4.48E-05	6.49E-04	4.03E-04	4.03E-04	1.99E-04
623	258163	4084905	5.44E-04	7.87E-03	5.80E-03	5.80E-03	3.23E-03	8.26E-05	1.20E-03	9.06E-04	9.06E-04	4.98E-04	4.49E-05	6.49E-04	4.03E-04	4.03E-04	1.99E-04
624	258138.7	4084906	5.44E-04	7.86E-03	5.80E-03	5.80E-03	3.23E-03	8.25E-05	1.20E-03	9.05E-04	9.05E-04	4.98E-04	4.48E-05	6.48E-04	4.03E-04	4.03E-04	1.99E-04
625	258114.3	4084907	5.43E-04	7.85E-03	5.79E-03	5.79E-03	3.23E-03	8.24E-05	1.20E-03	9.04E-04	9.04E-04	4.97E-04	4.48E-05	6.47E-04	4.02E-04	4.02E-04	1.99E-04
626	258090	4084908	5.42E-04	7.83E-03	5.77E-03	5.77E-03	3.22E-03	8.22E-05	1.19E-03	9.02E-04	9.02E-04	4.96E-04	4.46E-05	6.46E-04	4.01E-04	4.01E-04	1.99E-04
627	258065.7	4084909	5.40E-04	7.81E-03	5.75E-03	5.75E-03	3.21E-03	8.19E-05	1.19E-03	8.98E-04	8.98E-04	4.94E-04	4.45E-05	6.44E-04	4.00E-04	4.00E-04	1.98E-04
628	258041.3	4084910	5.38E-04	7.77E-03	5.73E-03	5.73E-03	3.19E-03	8.16E-05	1.18E-03	8.95E-04	8.95E-04	4.92E-04	4.43E-05	6.41E-04	3.98E-04	3.98E-04	1.97E-04
629	258017	4084911	5.35E-04	7.73E-03	5.70E-03	5.70E-03	3.18E-03	8.12E-05	1.18E-03	8.90E-04	8.90E-04	4.89E-04	4.41E-05	6.38E-04	3.96E-04	3.96E-04	1.96E-04
630	257992.7	4084912	5.31E-04	7.69E-03	5.67E-03	5.67E-03	3.16E-03	8.06E-05	1.17E-03	8.85E-04	8.85E-04	4.86E-04	4.38E-05	6.34E-04	3.94E-04	3.94E-04	1.95E-04
631	257968.3	4084913	5.27E-04	7.63E-03	5.62E-03	5.62E-03	3.13E-03	8.00E-05	1.16E-03	8.78E-04	8.78E-04	4.83E-04	4.35E-05	6.29E-04	3.91E-04	3.91E-04	1.93E-04
632	257944	4084914	5.23E-04	7.56E-03	5.57E-03	5.57E-03	3.11E-03	7.93E-05	1.15E-03	8.70E-04	8.70E-04	4.78E-04	4.31E-05	6.23E-04	3.87E-04	3.87E-04	1.92E-04
633	257919.7	4084915	5.17E-04	7.48E-03	5.51E-03	5.51E-03	3.07E-03	7.84E-05	1.14E-03	8.60E-04	8.60E-04	4.73E-04	4.26E-05	6.16E-04	3.83E-04	3.83E-04	1.89E-04
634	257895.4	4084916	5.10E-04	7.38E-03	5.44E-03	5.44E-03	3.03E-03	7.74E-05	1.12E-03	8.49E-04	8.49E-04	4.67E-04	4.20E-05	6.08E-04	3.78E-04	3.78E-04	1.87E-04
635	257871	4084917	5.02E-04	7.26E-03	5.35E-03	5.35E-03	2.98E-03	7.62E-05	1.11E-03	8.35E-04	8.35E-04	4.59E-04	4.14E-05	5.98E-04	3.72E-04	3.72E-04	1.84E-04
636	257846.7	4084918	4.92E-04	7.11E-03	5.24E-03	5.24E-03	2.92E-03	7.46E-05	1.08E-03	8.19E-04	8.19E-04	4.50E-04	4.05E-05	5.86E-04	3.64E-04	3.64E-04	1.80E-04
637	257822.4	4084919	4.80E-04	6.94E-03	5.12E-03	5.12E-03	2.85E-03	7.29E-05	1.06E-03	7.99E-04	7.99E-04	4.39E-04	3.96E-05	5.72E-04	3.55E-04	3.55E-04	1.76E-04
638	257798	4084920	4.66E-04	6.73E-03	4.96E-03	4.96E-03	2.77E-03	7.07E-05	1.03E-03	7.75E-04	7.75E-04	4.26E-04	3.84E-05	5.55E-04	3.45E-04	3.45E-04	1.71E-04
639	257773.7	4084921	4.48E-04	6.48E-03	4.78E-03	4.78E-03	2.66E-03	6.80E-05	9.88E-04	7.46E-04	7.46E-04	4.10E-04	3.70E-05	5.34E-04	3.32E-04	3.32E-04	1.64E-04
640	257749.4	4084922	4.28E-04	6.18E-03	4.56E-03	4.56E-03	2.54E-03	6.49E-05	9.42E-04	7.12E-04	7.12E-04	3.91E-04	3.52E-05	5.10E-04	3.17E-04	3.17E-04	1.57E-04
641	257725	4084923	4.02E-04	5.82E-03	4.29E-03	4.29E-03	2.39E-03	6.11E-05	8.87E-04	6.70E-04	6.70E-04	3.68E-04	3.32E-05	4.80E-04	2.98E-04	2.98E-04	1.47E-04
642	257700.7	4084924	3.72E-04	5.38E-03	3.96E-03	3.96E-03	2.21E-03	5.64E-05	8.19E-04	6.19E-04	6.19E-04	3.40E-04	3.06E-05	4.43E-04	2.75E-04	2.75E-04	1.36E-04
643	257676.4	4084925	3.34E-04	4.83E-03	3.56E-03	3.56E-03	1.99E-03	5.07E-05	7.36E-04	5.56E-04	5.56E-04	3.06E-04	2.75E-05	3.98E-04	2.47E-04	2.47E-04	1.23E-04
644	257652	4084926	2.88E-04	4.17E-03	3.07E-03	3.07E-03	1.71E-03	4.37E-05	6.35E-04	4.80E-04	4.80E-04	2.64E-04	2.38E-05	3.44E-04	2.13E-04	2.13E-04	1.06E-04
645	257627.7	4084927	2.32E-04	3.35E-03	2.47E-03	2.47E-03	1.38E-03	3.51E-05	5.10E-04	3.85E-04	3.85E-04	2.12E-04	1.91E-05	2.76E-04	1.72E-04	1.72E-04	8.49E-05
646	257603.4	4084928	1.66E-04	2.40E-03	1.77E-03	1.77E-03	9.84E-04	2.51E-05	3.65E-04	2.76E-04	2.76E-04	1.52E-04	1.37E-05	1.97E-04	1.23E-04	1.23E-04	6.07E-05
647	257579	4084929	1.04E-04	1.50E-03	1.10E-03	1.10E-03	6.15E-04	1.57E-05	2.28E-04	1.72E-04	1.72E-04	9.47E-05	8.53E-06	1.23E-04	7.67E-05	7.67E-05	3.79E-05
648	257554.7	4084930	7.00E-05	1.01E-03	7.46E-04	7.46E-04	4.16E-04	1.06E-05	1.54E-04	1.16E-04	1.16E-04	6.40E-05	5.77E-06	8.34E-05	5.18E-05	5.18E-05	2.57E-05
649	258374.7	4084879	3.63E-04	5.25E-03	3.87E-03	3.87E-03	2.16E-03	5.51E-05	8.00E-04	6.04E-04	6.04E-04	3.32E-04	2.99E-05	4.33E-04	2.69E-04	2.69E-04	1.33E-04
650	258332.3	4084873	3.56E-04	5.14E-03	3.79E-03	3.79E-03	2.11E-03	5.40E-05	7.84E-04	5.92E-04	5.92E-04	3.25E-04	2.93E-05	4.24E-04	2.63E-04	2.63E-04	1.30E-04
651	258308	4084874	3.62E-04	5.23E-03	3.86E-03	3.86E-03	2.15E-03	5.49E-05	7.97E-04	6.02E-04	6.02E-04	3.31E-04	2.98E-05	4.31E-04	2.68E-04	2.68E-04	1.33E-04
652	258283.6	4084875	3.66E-04	5.29E-03	3.90E-03	3.90E-03	2.17E-03	5.55E-05	8.06E-04	6.09E-04	6.09E-04	3.35E-04	3.01E-05	4.36E-04	2.71E-04	2.71E-04	1.34E-04
653	258259.3	4084876	3.69E-04	5.33E-03	3.93E-03	3.93E-03	2.19E-03	5.59E-05	8.12E-04	6.13E-04	6.13E-04	3.37E-04	3.04E-05	4.39E-04	2.73E-04	2.73E-04	1.35E-04
654	258235	4084877	3.70E-04	5.36E-03	3.95E-03	3.95E-03	2.20E-03	5.62E-05	8.16E-04	6.17E-04	6.17E-04	3.39E-04	3.05E-05	4.42E-04	2.74E-04	2.74E-04	1.36E-04
655	258210.6	4084878	3.72E-04	5.38E-03	3.96E-03	3.96E-03	2.21E-03	5.64E-05	8.19E-04	6.19E-04	6.19E-04	3.40E-04	3.06E-05	4.43E-04	2.75E-04	2.75E-04	1.36E-04
656	258186.3	4084879	3.72E-04	5.39E-03	3.97E-03	3.97E-03	2.21E-03	5.65E-05	8.20E-04	6.20E-04	6.20E-04	3.41E-04	3.07E-05	4.44E-04	2.76E-04	2.76E-04	1.36E-04
657	258162	4084880	3.72E-04	5.39E-03	3.97E-03	3.97E-03	2.21E-03	5.65E-05	8.21E-04	6.20E-04	6.20E-04	3.41E-04	3.07E-05	4.44E-04	2.76E-04	2.76E-04	1.37E-04
658	258137.6	4084881	3.72E-04	5.38E-03	3.97E-03	3.97E-03	2.21E-03	5.65E-05	8.20E-04	6.19E-04	6.19E-04	3.40E-04	3.07E-05	4.44E-04	2.76E-04	2.76E-04	1.36E-04
659	258113.3	4084882	3.71E-04	5.37E-03	3.96E-03	3.96E-03	2.21E-03	5.63E-05	8.18E-04	6.18E-04	6.18E-04	3.40E-04	3.06E-05	4.43E-04	2.75E-04	2.75E-04	1.36E-04
660	258089	4084883	3.70E-04	5.35E-03	3.94E-03	3.94E-03	2.20E-03	5.61E-05	8.15E-04	6.16E-04	6.16E-04	3.39E-04	3.05E-05	4.41E-04	2.74E-04	2.74E-04	1.36E-04
661	258064.6	4084884	3.68E-04	5.32E-03	3.92E-03	3.92E-03	2.19E-03	5.59E-05	8.11E-04	6.13E-04	6.13E-04	3.37E-04	3.03E-05	4.39E-04	2.73E-04	2.73E-04	1.35E-04
662	258040.3	4084885	3.66E-04	5.29E-03	3.90E-03	3.90E-03	2.17E-03	5.55E-05	8.06E-04	6.09E-04	6.09E-04	3.35E-04	3.01E-05	4.36E-04	2.71E-04	2.71E-04	1.34E-04
663	258016	4084886	3.63E-04	5.25E-03	3.87E-03	3.87E-03	2.16E-03	5.51E-05	7.99E-04	6.04E-04	6.04E-04	3.32E-04	2.99E-05	4.32E-04	2.69E-04	2.69E-04	1.33E-04
664	257991.7	4084887	3.59E-04	5.19E-03	3.83E-03	3.83E-03	2.13E-03	5.45E-05	7.91E-04	5.98E-04	5.98E-04	3.29E-04	2.96E-05	4.28E-04	2.66E-04	2.66E-04	1.32E-04
665	257967.3	4084888	3.55E-04	5.13E-03	3.78E-03	3.78E-03	2.11E-03	5.39E-05	7.82E-04	5.91E-04	5.91E-04	3.25E-04	2.92E-05	4.23E-04	2.63E-04	2.63E-04	1.30E-04
666	257943	4084889	3.50E-04	5.06E-03	3.73E-03	3.73E-03	2.08E-03	5.31E-05	7.71E-04	5.82E-04	5.82E-04	3.20E-04	2.88E-05	4.17E-04	2.59E-04	2.59E-04	1.28E-04
667	257918.7	4084890	3.44E-04	4.97E-03	3.66E-03	3.66E-03	2.04E-03	5.22E-05	7.57E-04	5.72E-04	5.72E-04	3.15E-04	2.83E-05	4.10E-04	2.55E-04	2.55E-04	1.26E-04
668	257894.3	4084891	3.37E-04	4.87E-03	3.59E-03	3.59E-03	2.00E-03	5.11E-05	7.42E-04	5.60E-04	5.60E-04	3.08E-04	2.78E-05	4.01E-04	2.49E-04	2.49E-04	1.23E-04
669	257870	4084892	3.28E-04	4.75E-03	3.50E-03	3.50E-03	1.95E-03	4.98E-05	7.24E-04	5.47E-04	5.47E-04	3.01E-04	2.71E-05	3.92E-04	2.43E-04	2.43E-04	1.20E-04
670	257845.7	4084893	3.19E-04	4.61E-03	3.40E-03	3.40E-03	1.89E-03	4.84E-05	7.02E-04	5.30E-04	5.30E-04	2.92E-04	2.63E-05	3.80E-04	2.36E-04	2.36E-04	1.17E-04
671	257821.3	4084894	3.07E-04	4.44E-03	3.27E-03	3.27E-03	1.83E-03	4.66E-05	6.77E-04	5.11E-04	5.11E-04	2.81E-04	2.53E-05	3.66E-04	2.27E-04	2.27E-04	1.13E-04
672	257797	4084895	2.94E-04	4.25E-03	3.13E-03	3.13E-03	1.74E-03	4.45E-05	6.47E-04	4.89E-04	4.89E-04	2.69E-04	2.42E-05	3.50E-04	2.17E-04	2.17E-04	1.08E-04
673	257772.7	4084896	2.78E-04	4.01E-03	2.96E-03	2.96E-03	1.65E-03	4.21E-05	6.12E-04	4.62E-04	4.62E-04	2.54E-04	2.29E-05	3.31E-04	2.06E-04	2.06E-04	1.02E-04
674	257748.3	4084897	2.59E-04	3.74E-03	2.76E-03	2.76E-03	1.54E-03	3.93E-05	5.70E-04	4.31E-04	4.31E-04	2.37E-04	2.13E-05	3.09E-04	1.92E-04	1.92E-04	9.49E-05
675	257724	4084898	2.37E-04	3.43E-03	2.53E-03	2.53E-03	1.41E-03	3.60E-05	5.22E-04	3.94E-04	3.94E-04	2.17E-04	1.95E-05	2.82E-04	1.75E-04	1.75E-04	8.69E-05
676	257699.7	4084899	2.12E-04	3.06E-03	2.26E-03	2.26E-03	1.26E-03	3.21E-05	4.66E-04	3.52E-04	3.52E-04	1.94E-04	1.74E-05	2.52E-04	1.57E-04	1.57E-04	7.76E-05
677	257675.3	4084900	1.83E-04	2.64E-03	1.95E-03	1.95E-03	1.09E-03	2.77E-05	4.02E-04	3.04E-04	3.04E-04	1.67E-04	1.51E-05	2.18E-04	1.35E-04	1.35E-04	6.70E-05
678	257651	4084901	1.50E-04	2.18E-03	1.60E-03	1.60E-03	8.94E-04	2.28E-05	3.31E-04	2.50E-04	2.50E-04	1.38E-04	1.24E-05	1.79E-04	1.11E-04	1.11E-04	5.51E-05
679	257626.7	4084902	1.17E-04	1.69E-03	1.24E-03	1.24E-03	6.92E-04	1.77E-05	2.57E-04	1.94E-04	1.94E-04	1.07E-04	9.60E-06	1.39E-04	8.63E-05	8.63E-05	4.27E-05
680	257602.3	4084903	8.51E-05	1.23E-03	9.07E-04	9.07E-04	5.06E-04	1.29E-05	1.87E-04	1.42E-04	1.42E-04	7.79E-05	7.01E-06	1.01E-04	6.30E-05	6.30E-05	3.12E-05
681	257578	4084904	6.19E-05	8.95E-04	6.60E-04	6.60E-04	3.68E-04	9.40E-06	1.36E-04	1.03E-04	1.03E-04	5.67E-05	5.10E-06	7.38E-05	4.58E-05	4.58E-05	2.27E-05
682	257553.7	4084905	4.82E-05	6.98E-04	5.14E-04	5.14E-04	2.87E-04	7.32E-06	1.06E-04	8.03E-05	8.03E-05	4.41E-05	3.98E-06	5.75E-05	3.57E-05	3.57E-05	1.77E-05
683	258373.7	4084854	2.79E-04	4.03E-03	2.97E-03	2.97E-03	1.66E-03	4.23E-05	6.14E-04	4.64E-04	4.64E-04	2.55E-04	2.30E-05	3.32E-04	2.06E-04	2.06E-04	1.02E-04
684	258417.8	4084885	3.15E-04	4.55E-03	3.36E-03	3.36E-03	1.87E-03	4.78E-05	6.94E-04	5.24E-04	5.24E-04	2.88E-04	2.60E-05	3.75E-04	2.33E-04	2.33E-04	1.15E-04
685	258331.3	4084848	2.71E-04	3.92E-03	2.89E-03	2.89E-03	1.61E-03	4.12E-05	5.98E-04	4.51E-04	4.51E-04	2.48E-04	2.24E-05	3.23E-04	2.01E-04	2.01E-04	9.94E-05
686	258306.9	4084849	2.75E-04	3.97E-03	2.93E-03	2.93E-03	1.63E-03	4.17E-05	6.05E-04	4.57E-04	4.57E-04	2.51E-04	2.26E-05	3.28E-04	2.03E-04	2.03E-04	1.01E-04
687	258282.6	4084850	2.77E-04	4.01E-03	2.95E-03	2.95E-03	1.65E-03	4.21E-05	6.11E-04	4.61E-04	4.61E-04	2.54E-04	2.28E-05	3.30E-04	2.05E-04	2.05E-04	1.02E-04
688	258258.3	4084851	2.79E-04	4.03E-03	2.97E-03	2.97E-03	1.66E-03	4.23E-05	6.14E-04	4.64E-04	4.64E-04	2.55E-04	2.30E-05	3.32E-04	2.06E-04	2.06E-04	1.02E-04
689	258233.9	4084852	2.80E-04	4.04E-03	2.98E-03	2.98E-03	1.66E-03	4.24E-05	6.16E-04	4.65E-04	4.65E-04	2.56E-04	2.31E-05	3.33E-04	2.07E-04	2.07E-04	1.03E-04
690	258209.6	4084853	2.80E-04	4.05E-03	2.99E-03	2.99E-03	1.66E-03	4.25E-05	6.17E-04	4.66E-04	4.66E-04	2.56E-04	2.31E-05	3.34E-04	2.07E-04	2.07E-04	1.03E-04
691	258185.3	4084854	2.80E-04	4.05E-03	2.99E-03	2.99E-03	1.66E-03	4.25E-05	6.17E-04	4.66E-04	4.66E-04	2.56E-04	2.31E-05	3.34E-04	2.07E-04	2.07E-04	1.03E-04
692	258160.9	4084855	2.80E-04	4.05E-03	2.98E-03	2.98E-03	1.66E-03	4.24E-05	6.16E-04	4.66E-04	4.66E-04	2.56E-04	2.31E-05	3.33E-04	2.07E-04	2.07E-04	1.03E-04
693	258136.6	4084856	2.79E-04	4.03E-03	2.97E-03	2.97E-03	1.66E-03	4.23E-05	6.14E-04	4.64E-04	4.64E-04	2.55E-04	2.30E-05	3.32E-04	2.06E-04	2.06E-04	1.02E-04
694	258112.3	4084857	2.78E-04	4.01E-03	2.96E-03	2.96E-03	1.65E-03	4.21E-05	6.12E-04	4.62E-04	4.62E-04	2.54E-04	2.29E-05	3.31E-04	2.06E-04	2.06E-04	1.02E-04
695	258088	4084858	2.76E-04	3.99E-03	2.94E-03	2.94E-03	1.64E-03	4.19E-05	6.08E-04	4.59E-04	4.59E-04	2.52E-04	2.27E-05	3.29E-04	2.04E-04	2.04E-04	1.01E-04
696	258063.6	4084859	2.74E-04	3.96E-03	2.92E-03	2.92E-03	1.63E-03	4.16E-05	6.03E-04	4.56E-04	4.56E-04	2.51E-04	2.26E-05	3.26E-04	2.03E-04	2.03E-04	1.00E-04
697	258039.3	4084860	2.71E-04	3.92E-03	2.89E-03	2.89E-03	1.61E-03	4.12E-05	5.98E-04	4.51E-04	4.51E-04	2.48E-04	2.24E-05	3.23E-04	2.01E-04	2.01E-04	9.94E-05
698	258015	4084861	2.68E-04	3.88E-03	2.86E-03	2.86E-03	1.59E-03	4.07E-05	5.91E-04	4.46E-04	4.46E-04	2.45E-04	2.21E-05	3.20E-04	1.99E-04	1.99E-04	9.83E-05
699	257990.6	4084862	2.64E-04	3.82E-03	2.82E-03	2.82E-03	1.57E-03	4.01E-05	5.82E-04	4.40E-04	4.40E-04	2.42E-04	2.18E-05	3.15E-04	1.96E-04	1.96E-04	9.69E-05
700	257966.3	4084863	2.60E-04	3.76E-03	2.77E-03	2.77E-03	1.54E-03	3.94E-05	5.73E-04	4.33E-04	4.33E-04	2.38E-04	2.14E-05	3.10E-04	1.92E-04	1.92E-04	9.53E-05
701	257942	4084864	2.55E-04	3.68E-03	2.72E-03	2.72E-03	1.51E-03	3.87E-05	5.61E-04	4.24E-04	4.24E-04	2.33E-04	2.10E-05	3.04E-04	1.89E-04	1.89E-04	9.34E-05
702	257917.6	4084865	2.49E-04	3.60E-03	2.65E-03	2.65E-03	1.48E-03	3.77E-05	5.48E-04	4.14E-04	4.14E-04	2.28E-04	2.05E-05	2.96E-04	1.84E-04	1.84E-04	9.11E-05
703	257893.3	4084866	2.42E-04	3.49E-03	2.58E-03	2.58E-03	1.44E-03	3.67E-05	5.32E-04	4.02E-04	4.02E-04	2.21E-04	1.99E-05	2.88E-04	1.79E-04	1.79E-04	8.85E-05
704	257869	4084867	2.33E-04	3.38E-03	2.49E-03	2.49E-03	1.39E-03	3.54E-05	5.14E-04	3.88E-04	3.88E-04	2.14E-04	1.92E-05	2.78E-04	1.73E-04	1.73E-04	8.55E-05
705	257844.6	4084868	2.24E-04	3.24E-03	2.39E-03	2.39E-03	1.33E-03	3.40E-05	4.93E-04	3.73E-04	3.73E-04	2.05E-04	1.85E-05	2.67E-04	1.66E-04	1.66E-04	8.21E-05
706	257820.3	4084869	2.13E-04	3.08E-03	2.27E-03	2.27E-03	1.27E-03	3.23E-05	4.69E-04	3.54E-04	3.54E-04	1.95E-04	1.76E-05	2.54E-04	1.58E-04	1.58E-04	7.81E-05
707	257796	4084870	2.00E-04	2.90E-03	2.14E-03	2.14E-03	1.19E-03	3.04E-05	4.42E-04	3.34E-04	3.34E-04	1.83E-04	1.65E-05	2.39E-04	1.48E-04	1.48E-04	7.35E-05
708	257771.6	4084871	1.86E-04	2.69E-03	1.98E-03	1.98E-03	1.11E-03	2.83E-05	4.10E-04	3.10E-04	3.10E-04	1.70E-04	1.53E-05	2.22E-04	1.38E-04	1.38E-04	6.82E-05
709	257747.3	4084872	1.70E-04	2.46E-03	1.81E-03	1.81E-03	1.01E-03	2.58E-05	3.75E-04	2.83E-04	2.83E-04	1.56E-04	1.40E-05	2.03E-04	1.26E-04	1.26E-04	6.23E-05
710	257723	4084873	1.52E-04	2.20E-03	1.62E-03	1.62E-03	9.04E-04	2.31E-05	3.35E-04	2.53E-04	2.53E-04	1.39E-04	1.25E-05	1.81E-04	1.13E-04	1.13E-04	5.57E-05
711	257698.6	4084874	1.32E-04	1.92E-03	1.41E-03	1.41E-03	7.87E-04	2.01E-05	2.92E-04	2.20E-04	2.20E-04	1.21E-04	1.09E-05	1.58E-04	9.81E-05	9.81E-05	4.85E-05
712	257674.3	4084875	1.12E-04	1.61E-03	1.19E-03	1.19E-03	6.63E-04	1.69E-05	2.46E-04	1.86E-04	1.86E-04	1.02E-04	9.19E-06	1.33E-04	8.26E-05	8.26E-05	4.09E-05
713	257650	4084876	9.05E-05	1.31E-03	9.65E-04	9.65E-04	5.38E-04	1.37E-05	1.99E-04	1.51E-04	1.51E-04	8.28E-05	7.46E-06	1.08E-04	6.70E-05	6.70E-05	3.32E-05
714	257625.6	4084877	7.10E-05	1.03E-03	7.57E-04	7.57E-04	4.22E-04	1.08E-05	1.57E-04	1.18E-04	1.18E-04	6.50E-05	5.86E-06	8.47E-05	5.26E-05	5.26E-05	2.60E-05
715	257601.3	4084878	5.52E-05	7.98E-04	5.88E-04	5.88E-04	3.28E-04	8.37E-06	1.22E-04	9.18E-05	9.18E-05	5.05E-05	4.55E-06	6.58E-05	4.08E-05	4.08E-05	2.02E-05
716	257577	4084879	4.39E-05	6.35E-04	4.68E-04	4.68E-04	2.61E-04	6.66E-06	9.67E-05	7.31E-05	7.31E-05	4.02E-05	3.62E-06	5.23E-05	3.25E-05	3.25E-05	1.61E-05
717	257552.7	4084880	3.64E-05	5.27E-04	3.88E-04	3.88E-04	2.17E-04	5.53E-06	8.03E-05	6.06E-05	6.06E-05	3.33E-05	3.00E-06	4.34E-05	2.70E-05	2.70E-05	1.34E-05

718	258372.7	4084829	2.23E-04	3.23E-03	2.38E-03	2.38E-03	1.33E-03	3.39E-05	4.92E-04	3.72E-04	3.72E-04	2.04E-04	1.84E-05	2.66E-04	1.65E-04	1.65E-04	8.19E-05
719	258408.8	4084842	2.36E-04	3.41E-03	2.51E-03	2.51E-03	1.40E-03	3.58E-05	5.19E-04	3.92E-04	3.92E-04	2.16E-04	1.94E-05	2.81E-04	1.75E-04	1.75E-04	8.64E-05
720	258434.8	4084866	2.54E-04	3.68E-03	2.71E-03	2.71E-03	1.51E-03	3.86E-05	5.61E-04	4.23E-04	4.23E-04	2.33E-04	2.10E-05	3.03E-04	1.88E-04	1.88E-04	9.33E-05
721	258330.2	4084823	2.17E-04	3.14E-03	2.31E-03	2.31E-03	1.29E-03	3.29E-05	4.78E-04	3.61E-04	3.61E-04	1.99E-04	1.79E-05	2.59E-04	1.61E-04	1.61E-04	7.95E-05
722	258305.9	4084824	2.19E-04	3.17E-03	2.34E-03	2.34E-03	1.30E-03	3.32E-05	4.83E-04	3.65E-04	3.65E-04	2.00E-04	1.81E-05	2.61E-04	1.62E-04	1.62E-04	8.03E-05
723	258281.6	4084825	2.20E-04	3.19E-03	2.35E-03	2.35E-03	1.31E-03	3.34E-05	4.85E-04	3.67E-04	3.67E-04	2.02E-04	1.82E-05	2.63E-04	1.63E-04	1.63E-04	8.08E-05
724	258257.3	4084826	2.21E-04	3.20E-03	2.36E-03	2.36E-03	1.31E-03	3.36E-05	4.87E-04	3.68E-04	3.68E-04	2.02E-04	1.82E-05	2.64E-04	1.64E-04	1.64E-04	8.10E-05
725	258232.9	4084827	2.21E-04	3.20E-03	2.36E-03	2.36E-03	1.32E-03	3.36E-05	4.88E-04	3.69E-04	3.69E-04	2.03E-04	1.83E-05	2.64E-04	1.64E-04	1.64E-04	8.12E-05
726	258208.6	4084828	2.21E-04	3.20E-03	2.36E-03	2.36E-03	1.32E-03	3.36E-05	4.88E-04	3.69E-04	3.69E-04	2.03E-04	1.82E-05	2.64E-04	1.64E-04	1.64E-04	8.12E-05
727	258184.3	4084829	2.21E-04	3.20E-03	2.36E-03	2.36E-03	1.31E-03	3.35E-05	4.87E-04	3.68E-04	3.68E-04	2.02E-04	1.82E-05	2.63E-04	1.64E-04	1.64E-04	8.10E-05
728	258159.9	4084830	2.20E-04	3.19E-03	2.35E-03	2.35E-03	1.31E-03	3.34E-05	4.85E-04	3.67E-04	3.67E-04	2.02E-04	1.82E-05	2.63E-04	1.63E-04	1.63E-04	8.07E-05
729	258135.6	4084831	2.19E-04	3.17E-03	2.34E-03	2.34E-03	1.30E-03	3.33E-05	4.83E-04	3.65E-04	3.65E-04	2.01E-04	1.81E-05	2.61E-04	1.62E-04	1.62E-04	8.03E-05
730	258111.3	4084832	2.18E-04	3.15E-03	2.32E-03	2.32E-03	1.29E-03	3.30E-05	4.79E-04	3.62E-04	3.62E-04	1.99E-04	1.79E-05	2.59E-04	1.61E-04	1.61E-04	7.98E-05
731	258086.9	4084833	2.16E-04	3.12E-03	2.30E-03	2.30E-03	1.28E-03	3.27E-05	4.75E-04	3.59E-04	3.59E-04	1.97E-04	1.78E-05	2.57E-04	1.60E-04	1.60E-04	7.91E-05
732	258062.6	4084834	2.13E-04	3.09E-03	2.27E-03	2.27E-03	1.27E-03	3.24E-05	4.70E-04	3.55E-04	3.55E-04	1.95E-04	1.76E-05	2.54E-04	1.58E-04	1.58E-04	7.82E-05
733	258038.3	4084835	2.10E-04	3.04E-03	2.24E-03	2.24E-03	1.25E-03	3.19E-05	4.64E-04	3.50E-04	3.50E-04	1.93E-04	1.73E-05	2.51E-04	1.56E-04	1.56E-04	7.72E-05
734	258013.9	4084836	2.07E-04	3.00E-03	2.21E-03	2.21E-03	1.23E-03	3.14E-05	4.56E-04	3.45E-04	3.45E-04	1.90E-04	1.71E-05	2.47E-04	1.53E-04	1.53E-04	7.59E-05
735	257989.6	4084837	2.03E-04	2.94E-03	2.17E-03	2.17E-03	1.21E-03	3.08E-05	4.48E-04	3.38E-04	3.38E-04	1.86E-04	1.68E-05	2.42E-04	1.50E-04	1.50E-04	7.45E-05
736	257965.3	4084838	1.99E-04	2.87E-03	2.12E-03	2.12E-03	1.18E-03	3.02E-05	4.38E-04	3.31E-04	3.31E-04	1.82E-04	1.64E-05	2.37E-04	1.47E-04	1.47E-04	7.28E-05
737	257940.9	4084839	1.93E-04	2.80E-03	2.06E-03	2.06E-03	1.15E-03	2.94E-05	4.26E-04	3.22E-04	3.22E-04	1.77E-04	1.59E-05	2.31E-04	1.43E-04	1.43E-04	7.09E-05
738	257916.6	4084840	1.87E-04	2.71E-03	2.00E-03	2.00E-03	1.11E-03	2.84E-05	4.13E-04	3.12E-04	3.12E-04	1.72E-04	1.54E-05	2.23E-04	1.39E-04	1.39E-04	6.87E-05
739	257892.3	4084841	1.81E-04	2.61E-03	1.92E-03	1.92E-03	1.07E-03	2.74E-05	3.98E-04	3.01E-04	3.01E-04	1.65E-04	1.49E-05	2.15E-04	1.34E-04	1.34E-04	6.62E-05
740	257867.9	4084842	1.73E-04	2.50E-03	1.84E-03	1.84E-03	1.03E-03	2.62E-05	3.81E-04	2.87E-04	2.87E-04	1.58E-04	1.42E-05	2.06E-04	1.28E-04	1.28E-04	6.33E-05
741	257843.6	4084843	1.64E-04	2.37E-03	1.75E-03	1.75E-03	9.74E-04	2.49E-05	3.61E-04	2.73E-04	2.73E-04	1.50E-04	1.35E-05	1.95E-04	1.21E-04	1.21E-04	6.01E-05
742	257819.3	4084844	1.54E-04	2.23E-03	1.64E-03	1.64E-03	9.15E-04	2.34E-05	3.39E-04	2.56E-04	2.56E-04	1.41E-04	1.27E-05	1.83E-04	1.14E-04	1.14E-04	5.64E-05
743	257794.9	4084845	1.43E-04	2.07E-03	1.52E-03	1.52E-03	8.49E-04	2.17E-05	3.15E-04	2.38E-04	2.38E-04	1.31E-04	1.18E-05	1.70E-04	1.06E-04	1.06E-04	5.23E-05
744	257770.6	4084846	1.31E-04	1.89E-03	1.39E-03	1.39E-03	7.76E-04	1.98E-05	2.88E-04	2.17E-04	2.17E-04	1.19E-04	1.08E-05	1.56E-04	9.67E-05	9.67E-05	4.79E-05
745	257746.3	4084847	1.17E-04	1.70E-03	1.25E-03	1.25E-03	6.97E-04	1.78E-05	2.58E-04	1.95E-04	1.95E-04	1.07E-04	9.66E-06	1.40E-04	8.68E-05	8.68E-05	4.30E-05
746	257722	4084848	1.03E-04	1.49E-03	1.10E-03	1.10E-03	6.13E-04	1.56E-05	2.27E-04	1.72E-04	1.72E-04	9.43E-05	8.50E-06	1.23E-04	7.63E-05	7.63E-05	3.78E-05
747	257697.6	4084849	8.85E-05	1.28E-03	9.43E-04	9.43E-04	5.26E-04	1.34E-05	1.95E-04	1.47E-04	1.47E-04	8.10E-05	7.29E-06	1.06E-04	6.55E-05	6.55E-05	3.24E-05
748	257673.3	4084850	7.41E-05	1.07E-03	7.89E-04	7.89E-04	4.40E-04	1.12E-05	1.63E-04	1.23E-04	1.23E-04	6.78E-05	6.10E-06	8.83E-05	5.48E-05	5.48E-05	2.71E-05
749	257649	4084851	6.06E-05	8.77E-04	6.47E-04	6.47E-04	3.60E-04	9.20E-06	1.34E-04	1.01E-04	1.01E-04	5.55E-05	5.00E-06	7.23E-05	4.49E-05	4.49E-05	2.22E-05
750	257624.6	4084852	4.92E-05	7.11E-04	5.24E-04	5.24E-04	2.92E-04	7.46E-06	1.08E-04	8.18E-05	8.18E-05	4.50E-05	4.05E-06	5.86E-05	3.64E-05	3.64E-05	1.80E-05
751	257600.3	4084853	4.02E-05	5.81E-04	4.29E-04	4.29E-04	2.39E-04	6.10E-06	8.86E-05	6.69E-05	6.69E-05	3.68E-05	3.31E-06	4.79E-05	2.98E-05	2.98E-05	1.47E-05
752	257576	4084854	3.37E-05	4.87E-04	3.59E-04	3.59E-04	2.00E-04	5.11E-06	7.42E-05	5.60E-05	5.60E-05	3.08E-05	2.77E-06	4.01E-05	2.49E-05	2.49E-05	1.23E-05
753	257551.6	4084855	2.90E-05	4.19E-04	3.09E-04	3.09E-04	1.72E-04	4.40E-06	6.38E-05	4.82E-05	4.82E-05	2.65E-05	2.39E-06	3.45E-05	2.15E-05	2.15E-05	1.06E-05
754	258374.2	4084780	1.57E-04	2.27E-03	1.67E-03	1.67E-03	9.31E-04	2.38E-05	3.45E-04	2.61E-04	2.61E-04	1.43E-04	1.29E-05	1.87E-04	1.16E-04	1.16E-04	5.74E-05
755	258395.9	4084788	1.63E-04	2.36E-03	1.74E-03	1.74E-03	9.70E-04	2.48E-05	3.60E-04	2.72E-04	2.72E-04	1.49E-04	1.35E-05	1.95E-04	1.21E-04	1.21E-04	5.98E-05
756	258417.6	4084796	1.68E-04	2.43E-03	1.79E-03	1.79E-03	1.00E-03	2.55E-05	3.71E-04	2.80E-04	2.80E-04	1.54E-04	1.39E-05	2.01E-04	1.25E-04	1.25E-04	6.17E-05
757	258439.3	4084804	1.71E-04	2.47E-03	1.82E-03	1.82E-03	1.02E-03	2.59E-05	3.76E-04	2.84E-04	2.84E-04	1.56E-04	1.41E-05	2.04E-04	1.27E-04	1.27E-04	6.26E-05
758	258470.5	4084833	1.83E-04	2.64E-03	1.95E-03	1.95E-03	1.09E-03	2.77E-05	4.03E-04	3.04E-04	3.04E-04	1.67E-04	1.51E-05	2.18E-04	1.35E-04	1.35E-04	6.70E-05
759	258480	4084854	1.91E-04	2.76E-03	2.04E-03	2.04E-03	1.14E-03	2.90E-05	4.21E-04	3.18E-04	3.18E-04	1.75E-04	1.58E-05	2.28E-04	1.42E-04	1.42E-04	7.01E-05
760	258489.6	4084876	1.93E-04	2.79E-03	2.06E-03	2.06E-03	1.15E-03	2.93E-05	4.25E-04	3.21E-04	3.21E-04	1.76E-04	1.59E-05	2.30E-04	1.43E-04	1.43E-04	7.07E-05
761	258499.1	4084897	1.88E-04	2.72E-03	2.00E-03	2.00E-03	1.12E-03	2.85E-05	4.14E-04	3.13E-04	3.13E-04	1.72E-04	1.55E-05	2.24E-04	1.39E-04	1.39E-04	6.89E-05
762	258352.5	4084772	1.49E-04	2.16E-03	1.59E-03	1.59E-03	8.88E-04	2.27E-05	3.29E-04	2.49E-04	2.49E-04	1.37E-04	1.23E-05	1.78E-04	1.11E-04	1.11E-04	5.48E-05
763	258328.2	4084773	1.51E-04	2.18E-03	1.60E-03	1.60E-03	8.95E-04	2.28E-05	3.32E-04	2.51E-04	2.51E-04	1.38E-04	1.24E-05	1.79E-04	1.11E-04	1.11E-04	5.52E-05
764	258303.9	4084774	1.51E-04	2.19E-03	1.61E-03	1.61E-03	8.98E-04	2.29E-05	3.33E-04	2.52E-04	2.52E-04	1.38E-04	1.25E-05	1.80E-04	1.12E-04	1.12E-04	5.54E-05
765	258279.5	4084775	1.51E-04	2.19E-03	1.61E-03	1.61E-03	8.99E-04	2.30E-05	3.33E-04	2.52E-04	2.52E-04	1.38E-04	1.25E-05	1.80E-04	1.12E-04	1.12E-04	5.55E-05
766	258255.2	4084776	1.51E-04	2.19E-03	1.61E-03	1.61E-03	8.98E-04	2.29E-05	3.33E-04	2.51E-04	2.51E-04	1.38E-04	1.25E-05	1.80E-04	1.12E-04	1.12E-04	5.54E-05
767	258230.9	4084777	1.51E-04	2.18E-03	1.61E-03	1.61E-03	8.95E-04	2.29E-05	3.32E-04	2.51E-04	2.51E-04	1.38E-04	1.24E-05	1.80E-04	1.12E-04	1.12E-04	5.52E-05
768	258206.5	4084778	1.50E-04	2.17E-03	1.60E-03	1.60E-03	8.90E-04	2.27E-05	3.30E-04	2.49E-04	2.49E-04	1.37E-04	1.23E-05	1.79E-04	1.11E-04	1.11E-04	5.49E-05
769	258182.2	4084779	1.49E-04	2.15E-03	1.59E-03	1.59E-03	8.84E-04	2.26E-05	3.28E-04	2.48E-04	2.48E-04	1.36E-04	1.23E-05	1.77E-04	1.10E-04	1.10E-04	5.45E-05
770	258157.9	4084780	1.47E-04	2.13E-03	1.57E-03	1.57E-03	8.76E-04	2.24E-05	3.25E-04	2.45E-04	2.45E-04	1.35E-04	1.22E-05	1.76E-04	1.09E-04	1.09E-04	5.40E-05
771	258133.5	4084781	1.46E-04	2.11E-03	1.55E-03	1.55E-03	8.67E-04	2.21E-05	3.21E-04	2.43E-04	2.43E-04	1.33E-04	1.20E-05	1.74E-04	1.08E-04	1.08E-04	5.34E-05
772	258109.2	4084782	1.44E-04	2.08E-03	1.53E-03	1.53E-03	8.55E-04	2.18E-05	3.17E-04	2.39E-04	2.39E-04	1.32E-04	1.19E-05	1.72E-04	1.07E-04	1.07E-04	5.27E-05
773	258084.9	4084783	1.42E-04	2.05E-03	1.51E-03	1.51E-03	8.42E-04	2.15E-05	3.12E-04	2.36E-04	2.36E-04	1.30E-04	1.17E-05	1.69E-04	1.05E-04	1.05E-04	5.19E-05
774	258060.5	4084784	1.39E-04	2.01E-03	1.48E-03	1.48E-03	8.26E-04	2.11E-05	3.06E-04	2.31E-04	2.31E-04	1.27E-04	1.15E-05	1.66E-04	1.03E-04	1.03E-04	5.09E-05
775	258036.2	4084785	1.36E-04	1.97E-03	1.45E-03	1.45E-03	8.08E-04	2.06E-05	2.99E-04	2.26E-04	2.26E-04	1.24E-04	1.12E-05	1.62E-04	1.01E-04	1.01E-04	4.98E-05
776	258011.9	4084786	1.32E-04	1.92E-03	1.41E-03	1.41E-03	7.87E-04	2.01E-05	2.92E-04	2.20E-04	2.20E-04	1.21E-04	1.09E-05	1.58E-04	9.81E-05	9.81E-05	4.86E-05
777	257987.5	4084787	1.29E-04	1.86E-03	1.37E-03	1.37E-03	7.64E-04	1.95E-05	2.83E-04	2.14E-04	2.14E-04	1.18E-04	1.06E-05	1.53E-04	9.52E-05	9.52E-05	4.71E-05
778	257963.2	4084788	1.24E-04	1.80E-03	1.32E-03	1.32E-03	7.38E-04	1.88E-05	2.74E-04	2.07E-04	2.07E-04	1.14E-04	1.02E-05	1.48E-04	9.19E-05	9.19E-05	4.55E-05
779	257938.9	4084789	1.19E-04	1.72E-03	1.27E-03	1.27E-03	7.08E-04	1.81E-05	2.63E-04	1.98E-04	1.98E-04	1.09E-04	9.83E-06	1.42E-04	8.83E-05	8.83E-05	4.37E-05
780	257914.6	4084790	1.14E-04	1.65E-03	1.21E-03	1.21E-03	6.76E-04	1.73E-05	2.51E-04	1.89E-04	1.89E-04	1.04E-04	9.38E-06	1.36E-04	8.42E-05	8.42E-05	4.17E-05
781	257890.2	4084791	1.08E-04	1.56E-03	1.15E-03	1.15E-03	6.40E-04	1.63E-05	2.37E-04	1.79E-04	1.79E-04	9.86E-05	8.88E-06	1.28E-04	7.98E-05	7.98E-05	3.95E-05
782	257865.9	4084792	1.01E-04	1.46E-03	1.08E-03	1.08E-03	6.01E-04	1.53E-05	2.23E-04	1.68E-04	1.68E-04	9.26E-05	8.34E-06	1.21E-04	7.49E-05	7.49E-05	3.71E-05
783	257841.6	4084793	9.40E-05	1.36E-03	1.00E-03	1.00E-03	5.59E-04	1.43E-05	2.07E-04	1.57E-04	1.57E-04	8.60E-05	7.75E-06	1.12E-04	6.96E-05	6.96E-05	3.45E-05
784	257817.2	4084794	8.64E-05	1.25E-03	9.21E-04	9.21E-04	5.14E-04	1.31E-05	1.90E-04	1.44E-04	1.44E-04	7.91E-05	7.12E-06	1.03E-04	6.40E-05	6.40E-05	3.17E-05
785	257792.9	4084795	7.84E-05	1.13E-03	8.36E-04	8.36E-04	4.66E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.18E-05	6.47E-06	9.35E-05	5.81E-05	5.81E-05	2.88E-05
786	257768.6	4084796	7.02E-05	1.02E-03	7.49E-04	7.49E-04	4.17E-04	1.07E-05	1.55E-04	1.17E-04	1.17E-04	6.43E-05	5.79E-06	8.37E-05	5.20E-05	5.20E-05	2.57E-05
787	257744.2	4084797	6.19E-05	8.96E-04	6.60E-04	6.60E-04	3.68E-04	9.40E-06	1.36E-04	1.03E-04	1.03E-04	5.67E-05	5.11E-06	7.38E-05	4.59E-05	4.59E-05	2.27E-05
788	257719.9	4084798	5.39E-05	7.79E-04	5.74E-04	5.74E-04	3.20E-04	8.18E-06	1.19E-04	8.97E-05	8.97E-05	4.93E-05	4.44E-06	6.42E-05	3.99E-05	3.99E-05	1.98E-05
789	257695.6	4084799	4.63E-05	6.70E-04	4.94E-04	4.94E-04	2.75E-04	7.03E-06	1.02E-04	7.71E-05	7.71E-05	4.24E-05	3.82E-06	5.52E-05	3.43E-05	3.43E-05	1.70E-05
790	257671.2	4084800	3.95E-05	5.72E-04	4.22E-04	4.22E-04	2.35E-04	6.00E-06	8.71E-05	6.58E-05	6.58E-05	3.62E-05	3.26E-06	4.71E-05	2.93E-05	2.93E-05	1.45E-05
791	257646.9	4084801	3.38E-05	4.88E-04	3.60E-04	3.60E-04	2.01E-04	5.12E-06	7.44E-05	5.62E-05	5.62E-05	3.09E-05	2.78E-06	4.02E-05	2.50E-05	2.50E-05	1.24E-05
792	257622.6	4084802	2.90E-05	4.20E-04	3.09E-04	3.09E-04	1.73E-04	4.41E-06	6.40E-05	4.83E-05	4.83E-05	2.66E-05	2.39E-06	3.46E-05	2.15E-05	2.15E-05	1.06E-05
793	257598.2	4084803	2.53E-05	3.66E-04	2.70E-04	2.70E-04	1.50E-04	3.84E-06	5.57E-05	4.21E-05	4.21E-05	2.31E-05	2.08E-06	3.01E-05	1.87E-05	1.87E-05	9.27E-06
794	257573.9	4084804	2.23E-05	3.23E-04	2.38E-04	2.38E-04	1.33E-04	3.39E-06	4.92E-05	3.72E-05	3.72E-05	2.04E-05	1.84E-06	2.66E-05	1.65E-05	1.65E-05	8.19E-06
795	257549.6	4084805	2.00E-05	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.04E-06	4.41E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.39E-05	1.48E-05	1.48E-05	7.34E-06
796	258371.1	4084730	1.16E-04	1.67E-03	1.23E-03	1.23E-03	6.87E-04	1.75E-05	2.55E-04	1.92E-04	1.92E-04	1.06E-04	9.52E-06	1.38E-04	8.56E-05	8.56E-05	4.24E-05
797	258412.4	4084745	1.25E-04	1.80E-03	1.33E-03	1.33E-03	7.41E-04	1.89E-05	2.75E-04	2.07E-04	2.07E-04	1.14E-04	1.03E-05	1.49E-04	9.23E-05	9.23E-05	4.57E-05
798	258453.7	4084760	1.31E-04	1.89E-03	1.39E-03	1.39E-03	7.77E-04	1.98E-05	2.88E-04	2.18E-04	2.18E-04	1.20E-04	1.08E-05	1.56E-04	9.68E-05	9.68E-05	4.79E-05
799	258504.1	4084796	1.39E-04	2.01E-03	1.48E-03	1.48E-03	8.24E-04	2.10E-05	3.05E-04	2.31E-04	2.31E-04	1.27E-04	1.14E-05	1.65E-04	1.03E-04	1.03E-04	5.08E-05
800	258522.3	4084836	1.47E-04	2.12E-03	1.57E-03	1.57E-03	8.73E-04	2.23E-05	3.24E-04	2.44E-04	2.44E-04	1.34E-04	1.21E-05	1.75E-04	1.09E-04	1.09E-04	5.38E-05
801	258540.4	4084876	1.42E-04	2.05E-03	1.51E-03	1.51E-03	8.43E-04	2.15E-05	3.12E-04	2.36E-04	2.36E-04	1.30E-04	1.17E-05	1.69E-04	1.05E-04	1.05E-04	5.20E-05
802	258326.1	4084723	1.11E-04	1.60E-03	1.18E-03	1.18E-03	6.58E-04	1.68E-05	2.44E-04	1.84E-04	1.84E-04	1.01E-04	9.13E-06	1.32E-04	8.20E-05	8.20E-05	4.06E-05
803	258301.8	4084724	1.11E-04	1.60E-03	1.18E-03	1.18E-03	6.57E-04	1.68E-05	2.44E-04	1.84E-04	1.84E-04	1.01E-04	9.11E-06	1.32E-04	8.19E-05	8.19E-05	4.05E-05
804	258277.5	4084725	1.10E-04	1.59E-03	1.17E-03	1.17E-03	6.54E-04	1.67E-05	2.43E-04	1.83E-04	1.83E-04	1.01E-04	9.07E-06	1.31E-04	8.15E-05	8.15E-05	4.04E-05
805	258253.1	4084726	1.09E-04	1.58E-03	1.17E-03	1.17E-03	6.50E-04	1.66E-05	2.41E-04	1.82E-04	1.82E-04	1.00E-04	9.02E-06	1.30E-04	8.10E-05	8.10E-05	4.01E-05
806	258228.8	4084727	1.08E-04	1.57E-03	1.16E-03	1.16E-03	6.44E-04	1.65E-05	2.39E-04	1.80E-04	1.80E-04	9.92E-05	8.94E-06	1.29E-04	8.03E-05	8.03E-05	3.97E-05
807	258204.5	4084728	1.07E-04	1.55E-03	1.14E-03	1.14E-03	6.37E-04	1.63E-05	2.36E-04	1.79E-04	1.79E-04	9.82E-05	8.84E-06	1.28E-04	7.94E-05	7.94E-05	3.93E-05
808	258180.1	4084729	1.06E-04	1.53E-03	1.13E-03	1.13E-03	6.29E-04	1.61E-05	2.33E-04	1.76E-04	1.76E-04	9.69E-05	8.73E-06	1.26E-04	7.84E-05	7.84E-05	3.88E-05
809	258155.8	4084730	1.04E-04	1.51E-03	1.11E-03	1.11E-03	6.20E-04	1.58E-05	2.30E-04	1.74E-04	1.74E-04	9.54E-05	8.59E-06	1.24E-04	7.72E-05	7.72E-05	3.82E-05
810	258131.5	4084731	1.02E-04	1.48E-03	1.09E-03	1.09E-03	6.08E-04	1.55E-05	2.26E-04	1.70E-04	1.70E-04	9.37E-05	8.44E-06	1.22E-04	7.58E-05	7.58E-05	3.75E-05
811	258107.2	4084732	1.00E-04	1.45E-03	1.07E-03	1.07E-03	5.96E-04	1.52E-05	2.21E-04	1.67E-04	1.67E-04	9.17E-05	8.26E-06	1.20E-04	7.42E-05	7.42E-05	3.67E-05
812	258082.8	4084733	9.79E-05	1.42E-03	1.04E-03	1.04E-03	5.82E-04	1.49E-05	2.16E-04	1.63E-04	1.63E-04	8.95E-05	8.07E-06	1.17E-04	7.25E-05	7.25E-05	3.59E-05
813	258058.5	4084734	9.52E-05	1.38E-03	1.01E-03	1.01E-03	5.66E-04	1.44E-05	2.10E-04	1.58E-04	1.58E-04	8.71E-05	7.85E-06	1.13E-04	7.05E-05	7.05E-05	3.49E-05
814	258034.2	4084735	9.22E-05	1.33E-03	9.83E-04	9.83E-04	5.48E-04	1.40E-05	2.03E-04	1.53E-04	1.53E-04	8.44E-05	7.60E-06	1.10E-04	6.83E-05	6.83E-05	3.38E-05
815	258009.8	4084736	8.89E-05	1.29E-03	9.48E-04	9.48E-04	5.29E-04	1.35E-05	1.96E-04	1.48E-04	1.48E-04	8.14E-05	7.33E-06	1.06E-04	6.59E-05	6.59E-05	3.26E-05
816	257985.5	4084737	8.53E-05	1.23E-03	9.10E-04	9.10E-04	5.07E-04	1.30E-05	1.88E-04	1.42E-04	1.42E-04	7.81E-05	7.03E-06	1.02E-04	6.32E-05	6.32E-05	3.13E-05
817	257961.2	4084738	8.14E-05	1.18E-03	8.68E-04	8.68E-04	4.84E-04	1.24E-05	1.79E-04	1.36E-04	1.36E-04	7.45E-05	6.71E-06	9.71E-05	6.03E-05	6.03E-05	2.98E-05
818	257936.8	4084739	7.72E-05	1.12E-03	8.23E-04	8.23E-04	4.59E-04	1.17E-05	1.70E-04	1.28E-04	1.28E-04	7.06E-05	6.36E-06	9.20E-05	5.71E-05	5.71E-05	2.83E-05
819	257912.5	4084740	7.26E-05	1.05E-03	7.74E-04	7.74E-04	4.32E-04	1.10E-05	1.60E-04	1.21E-04	1.21E-04	6.65E-05	5.99E-06	8.66E-05	5.38E-05	5.38E-05	2.66E-05
820	257888.2	4084741	6.78E-05	9.81E-04	7.23E-04	7.23E-04	4.03E-04	1.03E-05	1.49E-04	1.13E-04	1.13E-04	6.20E-05	5.59E-06	8.08E-05	5.02E-05	5.02E-05	2.49E-05

821	257863.8	4084742	6.27E-05	9.07E-04	6.69E-04	6.69E-04	3.73E-04	9.52E-06	1.38E-04	1.04E-04	1.04E-04	5.74E-05	5.17E-06	7.48E-05	4.65E-05	4.65E-05	2.30E-05
822	257839.5	4084743	5.75E-05	8.32E-04	6.13E-04	6.13E-04	3.42E-04	8.73E-06	1.27E-04	9.57E-05	9.57E-05	5.26E-05	4.74E-06	6.86E-05	4.26E-05	4.26E-05	2.11E-05
823	257815.2	4084744	5.22E-05	7.55E-04	5.57E-04	5.57E-04	3.10E-04	7.92E-06	1.15E-04	8.69E-05	8.69E-05	4.78E-05	4.30E-06	6.23E-05	3.87E-05	3.87E-05	1.91E-05
824	257790.8	4084745	4.69E-05	6.79E-04	5.00E-04	5.00E-04	2.79E-04	7.12E-06	1.03E-04	7.81E-05	7.81E-05	4.30E-05	3.87E-06	5.60E-05	3.48E-05	3.48E-05	1.72E-05
825	257766.5	4084746	4.18E-05	6.05E-04	4.46E-04	4.46E-04	2.48E-04	6.35E-06	9.21E-05	6.96E-05	6.96E-05	3.83E-05	3.45E-06	4.98E-05	3.10E-05	3.10E-05	1.53E-05
826	257742.2	4084747	3.70E-05	5.35E-04	3.94E-04	3.94E-04	2.20E-04	5.61E-06	8.14E-05	6.15E-05	6.15E-05	3.38E-05	3.05E-06	4.41E-05	2.74E-05	2.74E-05	1.35E-05
827	257717.8	4084748	3.25E-05	4.70E-04	3.47E-04	3.47E-04	1.93E-04	4.93E-06	7.16E-05	5.41E-05	5.41E-05	2.97E-05	2.68E-06	3.88E-05	2.41E-05	2.41E-05	1.19E-05
828	257693.5	4084749	2.85E-05	4.13E-04	3.04E-04	3.04E-04	1.70E-04	4.33E-06	6.29E-05	4.75E-05	4.75E-05	2.61E-05	2.35E-06	3.40E-05	2.11E-05	2.11E-05	1.05E-05
829	257669.2	4084750	2.51E-05	3.63E-04	2.68E-04	2.68E-04	1.49E-04	3.81E-06	5.53E-05	4.18E-05	4.18E-05	2.30E-05	2.07E-06	2.99E-05	1.86E-05	1.86E-05	9.21E-06
830	257644.8	4084751	2.22E-05	3.22E-04	2.37E-04	2.37E-04	1.32E-04	3.37E-06	4.90E-05	3.70E-05	3.70E-05	2.03E-05	1.83E-06	2.65E-05	1.65E-05	1.65E-05	8.15E-06
831	257620.5	4084752	1.98E-05	2.87E-04	2.11E-04	2.11E-04	1.18E-04	3.01E-06	4.37E-05	3.30E-05	3.30E-05	1.81E-05	1.63E-06	2.36E-05	1.47E-05	1.47E-05	7.27E-06
832	257596.2	4084753	1.79E-05	2.58E-04	1.90E-04	1.90E-04	1.06E-04	2.71E-06	3.94E-05	2.97E-05	2.97E-05	1.63E-05	1.47E-06	2.13E-05	1.32E-05	1.32E-05	6.55E-06
833	257571.9	4084754	1.62E-05	2.35E-04	1.73E-04	1.73E-04	9.65E-05	2.46E-06	3.58E-05	2.70E-05	2.70E-05	1.49E-05	1.34E-06	1.94E-05	1.20E-05	1.20E-05	5.95E-06
834	257547.5	4084755	1.49E-05	2.15E-04	1.59E-04	1.59E-04	8.84E-05	2.26E-06	3.28E-05	2.48E-05	2.48E-05	1.36E-05	1.23E-06	1.77E-05	1.10E-05	1.10E-05	5.45E-06
835	258371	4084681	8.87E-05	1.28E-03	9.45E-04	9.45E-04	5.27E-04	1.35E-05	1.95E-04	1.48E-04	1.48E-04	8.12E-05	7.31E-06	1.06E-04	6.57E-05	6.57E-05	3.25E-05
836	258393.6	4084689	9.28E-05	1.34E-03	9.89E-04	9.89E-04	5.51E-04	1.41E-05	2.04E-04	1.54E-04	1.54E-04	8.49E-05	7.65E-06	1.11E-04	6.87E-05	6.87E-05	3.40E-05
837	258416.2	4084697	9.66E-05	1.40E-03	1.03E-03	1.03E-03	5.74E-04	1.47E-05	2.13E-04	1.61E-04	1.61E-04	8.84E-05	7.96E-06	1.15E-04	7.15E-05	7.15E-05	3.54E-05
838	258438.8	4084706	1.00E-04	1.45E-03	1.07E-03	1.07E-03	5.94E-04	1.52E-05	2.20E-04	1.66E-04	1.66E-04	9.15E-05	8.24E-06	1.19E-04	7.41E-05	7.41E-05	3.67E-05
839	258461.4	4084714	1.03E-04	1.49E-03	1.10E-03	1.10E-03	6.11E-04	1.56E-05	2.26E-04	1.71E-04	1.71E-04	9.41E-05	8.47E-06	1.23E-04	7.61E-05	7.61E-05	3.77E-05
840	258484	4084722	1.05E-04	1.51E-03	1.12E-03	1.12E-03	6.22E-04	1.59E-05	2.31E-04	1.74E-04	1.74E-04	9.58E-05	8.63E-06	1.25E-04	7.75E-05	7.75E-05	3.84E-05
841	258506.6	4084731	1.05E-04	1.52E-03	1.12E-03	1.12E-03	6.26E-04	1.60E-05	2.32E-04	1.75E-04	1.75E-04	9.64E-05	8.68E-06	1.26E-04	7.80E-05	7.80E-05	3.86E-05
842	258539.1	4084761	1.11E-04	1.60E-03	1.18E-03	1.18E-03	6.57E-04	1.68E-05	2.44E-04	1.84E-04	1.84E-04	1.01E-04	9.11E-06	1.32E-04	8.18E-05	8.18E-05	4.05E-05
843	258549	4084783	1.15E-04	1.66E-03	1.22E-03	1.22E-03	6.82E-04	1.74E-05	2.53E-04	1.91E-04	1.91E-04	1.05E-04	9.45E-06	1.37E-04	8.49E-05	8.49E-05	4.20E-05
844	258558.9	4084805	1.17E-04	1.69E-03	1.24E-03	1.24E-03	6.93E-04	1.77E-05	2.57E-04	1.94E-04	1.94E-04	1.07E-04	9.62E-06	1.39E-04	8.64E-05	8.64E-05	4.28E-05
845	258568.9	4084827	1.16E-04	1.68E-03	1.24E-03	1.24E-03	6.91E-04	1.76E-05	2.56E-04	1.93E-04	1.93E-04	1.06E-04	9.58E-06	1.39E-04	8.61E-05	8.61E-05	4.26E-05
846	258578.8	4084849	1.13E-04	1.63E-03	1.20E-03	1.20E-03	6.71E-04	1.71E-05	2.49E-04	1.88E-04	1.88E-04	1.03E-04	9.31E-06	1.35E-04	8.36E-05	8.36E-05	4.14E-05
847	258588.7	4084871	1.07E-04	1.55E-03	1.14E-03	1.14E-03	6.37E-04	1.63E-05	2.36E-04	1.78E-04	1.78E-04	9.81E-05	8.83E-06	1.28E-04	7.94E-05	7.94E-05	3.93E-05
848	258598.6	4084893	9.95E-05	1.44E-03	1.06E-03	1.06E-03	5.91E-04	1.51E-05	2.19E-04	1.66E-04	1.66E-04	9.10E-05	8.20E-06	1.19E-04	7.37E-05	7.37E-05	3.65E-05
849	258348.4	4084672	8.44E-05	1.22E-03	9.00E-04	9.00E-04	5.02E-04	1.28E-05	1.86E-04	1.41E-04	1.41E-04	7.73E-05	6.96E-06	1.01E-04	6.25E-05	6.25E-05	3.10E-05
850	258324.1	4084673	8.41E-05	1.22E-03	8.96E-04	8.96E-04	5.00E-04	1.28E-05	1.85E-04	1.40E-04	1.40E-04	7.69E-05	6.93E-06	1.00E-04	6.23E-05	6.23E-05	3.08E-05
851	258299.8	4084674	8.35E-05	1.21E-03	8.90E-04	8.90E-04	4.96E-04	1.27E-05	1.84E-04	1.39E-04	1.39E-04	7.64E-05	6.88E-06	9.96E-05	6.18E-05	6.18E-05	3.06E-05
852	258275.4	4084675	8.27E-05	1.20E-03	8.82E-04	8.82E-04	4.92E-04	1.26E-05	1.82E-04	1.38E-04	1.38E-04	7.57E-05	6.82E-06	9.86E-05	6.13E-05	6.13E-05	3.03E-05
853	258251.1	4084676	8.17E-05	1.18E-03	8.71E-04	8.71E-04	4.86E-04	1.24E-05	1.80E-04	1.36E-04	1.36E-04	7.48E-05	6.74E-06	9.74E-05	6.05E-05	6.05E-05	3.00E-05
854	258226.8	4084677	8.05E-05	1.16E-03	8.58E-04	8.58E-04	4.79E-04	1.22E-05	1.77E-04	1.34E-04	1.34E-04	7.37E-05	6.64E-06	9.60E-05	5.96E-05	5.96E-05	2.95E-05
855	258202.4	4084678	7.92E-05	1.15E-03	8.44E-04	8.44E-04	4.71E-04	1.20E-05	1.74E-04	1.32E-04	1.32E-04	7.24E-05	6.53E-06	9.44E-05	5.86E-05	5.86E-05	2.90E-05
856	258178.1	4084679	7.76E-05	1.12E-03	8.28E-04	8.28E-04	4.61E-04	1.18E-05	1.71E-04	1.29E-04	1.29E-04	7.10E-05	6.40E-06	9.25E-05	5.75E-05	5.75E-05	2.85E-05
857	258153.8	4084680	7.59E-05	1.10E-03	8.09E-04	8.09E-04	4.51E-04	1.15E-05	1.67E-04	1.26E-04	1.26E-04	6.95E-05	6.26E-06	9.05E-05	5.62E-05	5.62E-05	2.78E-05
858	258129.4	4084681	7.40E-05	1.07E-03	7.89E-04	7.89E-04	4.40E-04	1.12E-05	1.63E-04	1.23E-04	1.23E-04	6.77E-05	6.10E-06	8.82E-05	5.48E-05	5.48E-05	2.71E-05
859	258105.1	4084682	7.19E-05	1.04E-03	7.66E-04	7.66E-04	4.27E-04	1.09E-05	1.58E-04	1.20E-04	1.20E-04	6.58E-05	5.92E-06	8.57E-05	5.32E-05	5.32E-05	2.63E-05
860	258080.8	4084683	6.96E-05	1.01E-03	7.42E-04	7.42E-04	4.13E-04	1.06E-05	1.53E-04	1.16E-04	1.16E-04	6.37E-05	5.73E-06	8.29E-05	5.15E-05	5.15E-05	2.55E-05
861	258056.4	4084684	6.70E-05	9.70E-04	7.15E-04	7.15E-04	3.98E-04	1.02E-05	1.48E-04	1.12E-04	1.12E-04	6.14E-05	5.53E-06	7.99E-05	4.97E-05	4.97E-05	2.46E-05
862	258032.1	4084685	6.43E-05	9.30E-04	6.86E-04	6.86E-04	3.82E-04	9.76E-06	1.42E-04	1.07E-04	1.07E-04	5.89E-05	5.30E-06	7.67E-05	4.76E-05	4.76E-05	2.36E-05
863	258007.8	4084686	6.14E-05	8.88E-04	6.55E-04	6.55E-04	3.65E-04	9.32E-06	1.35E-04	1.02E-04	1.02E-04	5.62E-05	5.06E-06	7.32E-05	4.55E-05	4.55E-05	2.25E-05
864	257983.4	4084687	5.83E-05	8.44E-04	6.22E-04	6.22E-04	3.47E-04	8.85E-06	1.29E-04	9.71E-05	9.71E-05	5.34E-05	4.81E-06	6.95E-05	4.32E-05	4.32E-05	2.14E-05
865	257959.1	4084688	5.51E-05	7.97E-04	5.87E-04	5.87E-04	3.27E-04	8.36E-06	1.21E-04	9.17E-05	9.17E-05	5.04E-05	4.54E-06	6.57E-05	4.08E-05	4.08E-05	2.02E-05
866	257934.8	4084689	5.17E-05	7.48E-04	5.51E-04	5.51E-04	3.07E-04	7.84E-06	1.14E-04	8.60E-05	8.60E-05	4.73E-05	4.26E-06	6.16E-05	3.83E-05	3.83E-05	1.89E-05
867	257910.4	4084690	4.81E-05	6.96E-04	5.13E-04	5.13E-04	2.86E-04	7.31E-06	1.06E-04	8.01E-05	8.01E-05	4.41E-05	3.97E-06	5.74E-05	3.57E-05	3.57E-05	1.76E-05
868	257886.1	4084691	4.45E-05	6.44E-04	4.75E-04	4.75E-04	2.65E-04	6.76E-06	9.81E-05	7.41E-05	7.41E-05	4.07E-05	3.67E-06	5.31E-05	3.30E-05	3.30E-05	1.63E-05
869	257861.8	4084692	4.09E-05	5.91E-04	4.36E-04	4.36E-04	2.43E-04	6.20E-06	9.01E-05	6.80E-05	6.80E-05	3.74E-05	3.37E-06	4.87E-05	3.03E-05	3.03E-05	1.50E-05
870	257837.4	4084693	3.73E-05	5.39E-04	3.97E-04	3.97E-04	2.21E-04	5.65E-06	8.21E-05	6.20E-05	6.20E-05	3.41E-05	3.07E-06	4.44E-05	2.76E-05	2.76E-05	1.37E-05
871	257813.1	4084694	3.37E-05	4.88E-04	3.60E-04	3.60E-04	2.01E-04	5.12E-06	7.43E-05	5.62E-05	5.62E-05	3.09E-05	2.78E-06	4.02E-05	2.50E-05	2.50E-05	1.24E-05
872	257788.8	4084695	3.04E-05	4.40E-04	3.24E-04	3.24E-04	1.81E-04	4.61E-06	6.70E-05	5.06E-05	5.06E-05	2.78E-05	2.51E-06	3.62E-05	2.25E-05	2.25E-05	1.11E-05
873	257764.5	4084696	2.73E-05	3.94E-04	2.91E-04	2.91E-04	1.62E-04	4.14E-06	6.01E-05	4.54E-05	4.54E-05	2.50E-05	2.25E-06	3.25E-05	2.02E-05	2.02E-05	1.00E-05
874	257740.1	4084697	2.44E-05	3.53E-04	2.60E-04	2.60E-04	1.45E-04	3.71E-06	5.38E-05	4.06E-05	4.06E-05	2.23E-05	2.01E-06	2.91E-05	1.81E-05	1.81E-05	8.95E-06
875	257715.8	4084698	2.19E-05	3.16E-04	2.33E-04	2.33E-04	1.30E-04	3.32E-06	4.82E-05	3.64E-05	3.64E-05	2.00E-05	1.80E-06	2.61E-05	1.62E-05	1.62E-05	8.02E-06
876	257691.5	4084699	1.96E-05	2.84E-04	2.09E-04	2.09E-04	1.17E-04	2.98E-06	4.33E-05	3.27E-05	3.27E-05	1.80E-05	1.62E-06	2.34E-05	1.45E-05	1.45E-05	7.20E-06
877	257667.1	4084700	1.77E-05	2.56E-04	1.89E-04	1.89E-04	1.05E-04	2.69E-06	3.90E-05	2.95E-05	2.95E-05	1.62E-05	1.46E-06	2.11E-05	1.31E-05	1.31E-05	6.49E-06
878	257642.8	4084701	1.61E-05	2.32E-04	1.71E-04	1.71E-04	9.55E-05	2.44E-06	3.54E-05	2.67E-05	2.67E-05	1.47E-05	1.32E-06	1.92E-05	1.19E-05	1.19E-05	5.89E-06
879	257618.5	4084702	1.47E-05	2.12E-04	1.56E-04	1.56E-04	8.72E-05	2.23E-06	3.23E-05	2.44E-05	2.44E-05	1.34E-05	1.21E-06	1.75E-05	1.09E-05	1.09E-05	5.38E-06
880	257594.1	4084703	1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.01E-05	2.05E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.61E-05	9.98E-06	9.98E-06	4.94E-06
881	257569.8	4084704	1.25E-05	1.80E-04	1.33E-04	1.33E-04	7.40E-05	1.89E-06	2.75E-05	2.07E-05	2.07E-05	1.14E-05	1.03E-06	1.49E-05	9.23E-06	9.23E-06	4.57E-06
882	257545.5	4084705	1.16E-05	1.68E-04	1.23E-04	1.23E-04	6.88E-05	1.76E-06	2.55E-05	1.93E-05	1.93E-05	1.06E-05	9.55E-07	1.38E-05	8.58E-06	8.58E-06	4.25E-06
883	258368	4084630	6.91E-05	9.99E-04	7.36E-04	7.36E-04	4.11E-04	1.05E-05	1.52E-04	1.15E-04	1.15E-04	6.32E-05	5.69E-06	8.24E-05	5.12E-05	5.12E-05	2.53E-05
884	258389.7	4084638	7.23E-05	1.05E-03	7.71E-04	7.71E-04	4.30E-04	1.10E-05	1.59E-04	1.20E-04	1.20E-04	6.62E-05	5.96E-06	8.62E-05	5.36E-05	5.36E-05	2.65E-05
885	258411.4	4084646	7.54E-05	1.09E-03	8.04E-04	8.04E-04	4.48E-04	1.14E-05	1.66E-04	1.26E-04	1.26E-04	6.90E-05	6.22E-06	8.99E-05	5.59E-05	5.59E-05	2.77E-05
886	258433.1	4084654	7.84E-05	1.13E-03	8.35E-04	8.35E-04	4.66E-04	1.19E-05	1.73E-04	1.30E-04	1.30E-04	7.17E-05	6.46E-06	9.34E-05	5.80E-05	5.80E-05	2.87E-05
887	258454.8	4084662	8.10E-05	1.17E-03	8.64E-04	8.64E-04	4.82E-04	1.23E-05	1.79E-04	1.35E-04	1.35E-04	7.42E-05	6.68E-06	9.66E-05	6.00E-05	6.00E-05	2.97E-05
888	258476.5	4084670	8.33E-05	1.21E-03	8.88E-04	8.88E-04	4.95E-04	1.26E-05	1.84E-04	1.39E-04	1.39E-04	7.62E-05	6.87E-06	9.93E-05	6.17E-05	6.17E-05	3.05E-05
889	258498.2	4084679	8.51E-05	1.23E-03	9.07E-04	9.07E-04	5.06E-04	1.29E-05	1.87E-04	1.42E-04	1.42E-04	7.79E-05	7.01E-06	1.01E-04	6.30E-05	6.30E-05	3.12E-05
890	258519.9	4084687	8.62E-05	1.25E-03	9.19E-04	9.19E-04	5.12E-04	1.31E-05	1.90E-04	1.43E-04	1.43E-04	7.89E-05	7.11E-06	1.03E-04	6.38E-05	6.38E-05	3.16E-05
891	258541.5	4084695	8.65E-05	1.25E-03	9.22E-04	9.22E-04	5.14E-04	1.31E-05	1.91E-04	1.44E-04	1.44E-04	7.92E-05	7.13E-06	1.03E-04	6.41E-05	6.41E-05	3.17E-05
892	258572.8	4084724	9.02E-05	1.30E-03	9.61E-04	9.61E-04	5.36E-04	1.37E-05	1.99E-04	1.50E-04	1.50E-04	8.25E-05	7.43E-06	1.07E-04	6.68E-05	6.68E-05	3.30E-05
893	258582.3	4084745	9.35E-05	1.35E-03	9.96E-04	9.96E-04	5.55E-04	1.42E-05	2.06E-04	1.56E-04	1.56E-04	8.55E-05	7.70E-06	1.11E-04	6.92E-05	6.92E-05	3.43E-05
894	258591.8	4084766	9.51E-05	1.38E-03	1.01E-03	1.01E-03	5.65E-04	1.44E-05	2.10E-04	1.58E-04	1.58E-04	8.70E-05	7.84E-06	1.13E-04	7.04E-05	7.04E-05	3.49E-05
895	258601.4	4084787	9.56E-05	1.38E-03	1.02E-03	1.02E-03	5.68E-04	1.45E-05	2.11E-04	1.59E-04	1.59E-04	8.75E-05	7.88E-06	1.14E-04	7.08E-05	7.08E-05	3.50E-05
896	258610.9	4084808	9.43E-05	1.36E-03	1.01E-03	1.01E-03	5.61E-04	1.43E-05	2.08E-04	1.57E-04	1.57E-04	8.63E-05	7.77E-06	1.12E-04	6.99E-05	6.99E-05	3.46E-05
897	258620.4	4084829	9.14E-05	1.32E-03	9.74E-04	9.74E-04	5.43E-04	1.39E-05	2.01E-04	1.52E-04	1.52E-04	8.36E-05	7.53E-06	1.09E-04	6.77E-05	6.77E-05	3.35E-05
898	258630	4084850	8.70E-05	1.26E-03	9.27E-04	9.27E-04	5.17E-04	1.32E-05	1.92E-04	1.45E-04	1.45E-04	7.96E-05	7.17E-06	1.04E-04	6.44E-05	6.44E-05	3.19E-05
899	258639.5	4084871	8.14E-05	1.18E-03	8.67E-04	8.67E-04	4.84E-04	1.23E-05	1.79E-04	1.35E-04	1.35E-04	7.44E-05	6.71E-06	9.70E-05	6.02E-05	6.02E-05	2.98E-05
900	258649	4084892	7.50E-05	1.08E-03	7.99E-04	7.99E-04	4.46E-04	1.14E-05	1.65E-04	1.25E-04	1.25E-04	6.86E-05	6.18E-06	8.94E-05	5.55E-05	5.55E-05	2.75E-05
901	258346.4	4084622	6.58E-05	9.51E-04	7.01E-04	7.01E-04	3.91E-04	9.98E-06	1.45E-04	1.09E-04	1.09E-04	6.02E-05	5.42E-06	7.84E-05	4.87E-05	4.87E-05	2.41E-05
902	258322	4084623	6.51E-05	9.42E-04	6.94E-04	6.94E-04	3.87E-04	9.88E-06	1.43E-04	1.08E-04	1.08E-04	5.96E-05	5.37E-06	7.76E-05	4.82E-05	4.82E-05	2.39E-05
903	258297.7	4084624	6.43E-05	9.30E-04	6.86E-04	6.86E-04	3.82E-04	9.76E-06	1.42E-04	1.07E-04	1.07E-04	5.89E-05	5.30E-06	7.67E-05	4.76E-05	4.76E-05	2.36E-05
904	258273.4	4084625	6.34E-05	9.17E-04	6.76E-04	6.76E-04	3.77E-04	9.62E-06	1.40E-04	1.06E-04	1.06E-04	5.80E-05	5.22E-06	7.56E-05	4.69E-05	4.69E-05	2.32E-05
905	258249	4084626	6.23E-05	9.00E-04	6.64E-04	6.64E-04	3.70E-04	9.45E-06	1.37E-04	1.04E-04	1.04E-04	5.70E-05	5.13E-06	7.42E-05	4.61E-05	4.61E-05	2.28E-05
906	258224.7	4084627	6.10E-05	8.83E-04	6.50E-04	6.50E-04	3.63E-04	9.26E-06	1.34E-04	1.02E-04	1.02E-04	5.58E-05	5.03E-06	7.27E-05	4.52E-05	4.52E-05	2.24E-05
907	258200.4	4084628	5.96E-05	8.62E-04	6.35E-04	6.35E-04	3.54E-04	9.05E-06	1.31E-04	9.92E-05	9.92E-05	5.46E-05	4.91E-06	7.11E-05	4.41E-05	4.41E-05	2.19E-05
908	258176	4084629	5.81E-05	8.40E-04	6.19E-04	6.19E-04	3.45E-04	8.81E-06	1.28E-04	9.66E-05	9.66E-05	5.31E-05	4.79E-06	6.92E-05	4.30E-05	4.30E-05	2.13E-05
909	258151.7	4084630	5.64E-05	8.15E-04	6.01E-04	6.01E-04	3.35E-04	8.55E-06	1.24E-04	9.38E-05	9.38E-05	5.16E-05	4.65E-06	6.72E-05	4.17E-05	4.17E-05	2.07E-05
910	258127.4	4084631	5.45E-05	7.89E-04	5.81E-04	5.81E-04	3.24E-04	8.28E-06	1.20E-04	9.08E-05	9.08E-05	4.99E-05	4.49E-06	6.50E-05	4.04E-05	4.04E-05	2.00E-05
911	258103	4084632	5.25E-05	7.60E-04	5.60E-04	5.60E-04	3.12E-04	7.97E-06	1.16E-04	8.74E-05	8.74E-05	4.81E-05	4.33E-06	6.26E-05	3.89E-05	3.89E-05	1.92E-05
912	258078.7	4084633	5.04E-05	7.29E-04	5.37E-04	5.37E-04	3.00E-04	7.65E-06	1.11E-04	8.39E-05	8.39E-05	4.61E-05	4.15E-06	6.01E-05	3.73E-05	3.73E-05	1.85E-05
913	258054.4	4084634	4.82E-05	6.97E-04	5.14E-04	5.14E-04	2.86E-04	7.31E-06	1.06E-04	8.02E-05	8.02E-05	4.41E-05	3.97E-06	5.74E-05	3.57E-05	3.57E-05	1.77E-05
914	258030	4084635	4.59E-05	6.63E-04	4.89E-04	4.89E-04	2.73E-04	6.96E-06	1.01E-04	7.63E-05	7.63E-05	4.20E-05	3.78E-06	5.47E-05	3.40E-05	3.40E-05	1.68E-05
915	258005.7	4084636	4.34E-05	6.28E-04	4.63E-04	4.63E-04	2.58E-04	6.59E-06	9.57E-05	7.23E-05	7.23E-05	3.98E-05	3.58E-06	5.18E-05	3.22E-05	3.22E-05	1.59E-05
916	257981.4	4084637	4.09E-05	5.92E-04	4.36E-04	4.36E-04	2.43E-04	6.21E-06	9.02E-05	6.81E-05	6.81E-05	3.74E-05	3.37E-06	4.88E-05	3.03E-05	3.03E-05	1.50E-05
917	257957.1	4084638	3.83E-05	5.54E-04	4.09E-04	4.09E-04	2.28E-04	5.82E-06	8.44E-05	6.38E-05	6.38E-05	3.51E-05	3.16E-06	4.57E-05	2.84E-05	2.84E-05	1.40E-05
918	257932.7	4084639	3.57E-05	5.16E-04	3.80E-04	3.80E-04	2.12E-04	5.42E-06	7.86E-05	5.94E-05	5.94E-05	3.27E-05	2.94E-06	4.26E-05	2.64E-05	2.64E-05	1.31E-05
919	257908.4	4084640	3.31E-05	4.78E-04	3.52E-04	3.52E-04	1.96E-04	5.02E-06	7.28E-05	5.50E-05	5.50E-05	3.03E-05	2.73E-06	3.94E-05	2.45E-05	2.45E-05	1.21E-05
920	257884.1	4084641	3.05E-05	4.41E-04	3.25E-04	3.25E-04	1.81E-04	4.62E-06	6.71E-05	5.07E-05	5.07E-05	2.79E-05	2.51E-06	3.63E-05	2.26E-05	2.26E-05	1.12E-05
921	257859.7	4084642	2.79E-05	4.04E-04	2.98E-04	2.98E-04	1.66E-04	4.24E-06	6.16E-05	4.65E-05	4.65E-05	2.56E-05	2.30E-06	3.33E-05	2.07E-05	2.07E-05	1.02E-05
922	257835.4	4084643	2.55E-05	3.69E-04	2.72E-04	2.72E-04	1.52E-04	3.87E-06	5.62E-05	4.25E-05	4.25E-05	2.33E-05	2.10E-06	3.04E-05	1.89E-05	1.89E-05	9.35E-06
923	257811.1	4084644	2.32E-05	3.36E-04	2.48E-04	2.48E-04	1.38E-04	3.53E-06	5.12E-05	3.87E-05	3.87E-05	2.13E-05	1.92E-06	2.77E-05	1.72E-05	1.72E-05	8.52E-06

924	257786.7	4084645	2.11E-05	3.06E-04	2.25E-04	2.25E-04	1.26E-04	3.21E-06	4.65E-05	3.52E-05	3.52E-05	1.93E-05	1.74E-06	2.52E-05	1.56E-05	1.56E-05	7.74E-06
925	257762.4	4084646	1.92E-05	2.78E-04	2.05E-04	2.05E-04	1.14E-04	2.91E-06	4.23E-05	3.19E-05	3.19E-05	1.76E-05	1.58E-06	2.29E-05	1.42E-05	1.42E-05	7.04E-06
926	257738.1	4084647	1.75E-05	2.52E-04	1.86E-04	1.86E-04	1.04E-04	2.65E-06	3.85E-05	2.91E-05	2.91E-05	1.60E-05	1.44E-06	2.08E-05	1.29E-05	1.29E-05	6.40E-06
927	257713.7	4084648	1.59E-05	2.30E-04	1.70E-04	1.70E-04	9.46E-05	2.41E-06	3.51E-05	2.65E-05	2.65E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.83E-06
928	257689.4	4084649	1.45E-05	2.10E-04	1.55E-04	1.55E-04	8.65E-05	2.21E-06	3.21E-05	2.42E-05	2.42E-05	1.33E-05	1.20E-06	1.73E-05	1.08E-05	1.08E-05	5.33E-06
929	257665.1	4084650	1.34E-05	1.93E-04	1.42E-04	1.42E-04	7.94E-05	2.03E-06	2.94E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.89E-06	9.89E-06	4.90E-06
930	257640.7	4084651	1.23E-05	1.78E-04	1.31E-04	1.31E-04	7.33E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.13E-06	9.13E-06	4.52E-06
931	257616.4	4084652	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.79E-05	1.73E-06	2.52E-05	1.90E-05	1.90E-05	1.05E-05	9.42E-07	1.36E-05	8.46E-06	8.46E-06	4.19E-06
932	257592.1	4084653	1.06E-05	1.54E-04	1.14E-04	1.14E-04	6.33E-05	1.62E-06	2.35E-05	1.77E-05	1.77E-05	9.74E-06	8.78E-07	1.27E-05	7.88E-06	7.88E-06	3.90E-06
933	257567.7	4084654	9.96E-06	1.44E-04	1.06E-04	1.06E-04	5.92E-05	1.51E-06	2.19E-05	1.66E-05	1.66E-05	9.11E-06	8.21E-07	1.19E-05	7.37E-06	7.37E-06	3.65E-06
934	257543.4	4084655	9.35E-06	1.35E-04	9.97E-05	9.97E-05	5.56E-05	1.42E-06	2.06E-05	1.56E-05	1.56E-05	8.55E-06	7.71E-07	1.11E-05	6.92E-06	6.92E-06	3.43E-06
935	258364.5	4084531	4.36E-05	6.31E-04	4.65E-04	4.65E-04	2.59E-04	6.62E-06	9.61E-05	7.26E-05	7.26E-05	3.99E-05	3.60E-06	5.20E-05	3.23E-05	3.23E-05	1.60E-05
936	258386.7	4084539	4.60E-05	6.66E-04	4.91E-04	4.91E-04	2.73E-04	6.98E-06	1.01E-04	7.66E-05	7.66E-05	4.21E-05	3.79E-06	5.49E-05	3.41E-05	3.41E-05	1.69E-05
937	258409	4084547	4.84E-05	7.00E-04	5.16E-04	5.16E-04	2.87E-04	7.34E-06	1.07E-04	8.05E-05	8.05E-05	4.43E-05	3.99E-06	5.77E-05	3.58E-05	3.58E-05	1.77E-05
938	258431.2	4084555	5.07E-05	7.33E-04	5.40E-04	5.40E-04	3.01E-04	7.69E-06	1.12E-04	8.43E-05	8.43E-05	4.64E-05	4.18E-06	6.04E-05	3.75E-05	3.75E-05	1.86E-05
939	258453.5	4084564	5.29E-05	7.65E-04	5.64E-04	5.64E-04	3.14E-04	8.02E-06	1.16E-04	8.80E-05	8.80E-05	4.84E-05	4.36E-06	6.30E-05	3.92E-05	3.92E-05	1.94E-05
940	258475.7	4084572	5.49E-05	7.95E-04	5.86E-04	5.86E-04	3.27E-04	8.34E-06	1.21E-04	9.15E-05	9.15E-05	5.03E-05	4.53E-06	6.55E-05	4.07E-05	4.07E-05	2.01E-05
941	258498	4084580	5.68E-05	8.22E-04	6.06E-04	6.06E-04	3.38E-04	8.63E-06	1.25E-04	9.46E-05	9.46E-05	5.20E-05	4.69E-06	6.78E-05	4.21E-05	4.21E-05	2.08E-05
942	258520.2	4084588	5.85E-05	8.46E-04	6.24E-04	6.24E-04	3.48E-04	8.88E-06	1.29E-04	9.74E-05	9.74E-05	5.36E-05	4.82E-06	6.98E-05	4.33E-05	4.33E-05	2.15E-05
943	258542.4	4084597	5.99E-05	8.67E-04	6.39E-04	6.39E-04	3.56E-04	9.09E-06	1.32E-04	9.97E-05	9.97E-05	5.48E-05	4.94E-06	7.14E-05	4.44E-05	4.44E-05	2.20E-05
944	258564.7	4084605	6.10E-05	8.82E-04	6.50E-04	6.50E-04	3.62E-04	9.25E-06	1.34E-04	1.01E-04	1.01E-04	5.58E-05	5.03E-06	7.27E-05	4.52E-05	4.52E-05	2.24E-05
945	258586.9	4084613	6.16E-05	8.91E-04	6.57E-04	6.57E-04	3.66E-04	9.35E-06	1.36E-04	1.03E-04	1.03E-04	5.64E-05	5.08E-06	7.35E-05	4.56E-05	4.56E-05	2.26E-05
946	258609.2	4084621	6.18E-05	8.94E-04	6.59E-04	6.59E-04	3.67E-04	9.38E-06	1.36E-04	1.03E-04	1.03E-04	5.65E-05	5.09E-06	7.37E-05	4.58E-05	4.58E-05	2.26E-05
947	258641.2	4084651	6.41E-05	9.27E-04	6.83E-04	6.83E-04	3.81E-04	9.72E-06	1.41E-04	1.07E-04	1.07E-04	5.86E-05	5.28E-06	7.64E-05	4.74E-05	4.74E-05	2.35E-05
948	258651	4084673	6.62E-05	9.57E-04	7.06E-04	7.06E-04	3.93E-04	1.00E-05	1.46E-04	1.10E-04	1.10E-04	6.06E-05	5.46E-06	7.89E-05	4.90E-05	4.90E-05	2.43E-05
949	258660.7	4084694	6.76E-05	9.77E-04	7.20E-04	7.20E-04	4.02E-04	1.03E-05	1.49E-04	1.12E-04	1.12E-04	6.18E-05	5.57E-06	8.05E-05	5.00E-05	5.00E-05	2.48E-05
950	258670.5	4084716	6.81E-05	9.85E-04	7.26E-04	7.26E-04	4.05E-04	1.03E-05	1.50E-04	1.13E-04	1.13E-04	6.23E-05	5.61E-06	8.12E-05	5.04E-05	5.04E-05	2.50E-05
951	258680.3	4084738	6.79E-05	9.82E-04	7.24E-04	7.24E-04	4.04E-04	1.03E-05	1.50E-04	1.13E-04	1.13E-04	6.21E-05	5.60E-06	8.10E-05	5.03E-05	5.03E-05	2.49E-05
952	258690.1	4084759	6.68E-05	9.66E-04	7.12E-04	7.12E-04	3.97E-04	1.01E-05	1.47E-04	1.11E-04	1.11E-04	6.11E-05	5.51E-06	7.96E-05	4.95E-05	4.95E-05	2.45E-05
953	258699.9	4084781	6.48E-05	9.37E-04	6.91E-04	6.91E-04	3.85E-04	9.83E-06	1.43E-04	1.08E-04	1.08E-04	5.93E-05	5.34E-06	7.72E-05	4.80E-05	4.80E-05	2.38E-05
954	258709.6	4084802	6.20E-05	8.97E-04	6.61E-04	6.61E-04	3.69E-04	9.41E-06	1.37E-04	1.03E-04	1.03E-04	5.67E-05	5.11E-06	7.39E-05	4.59E-05	4.59E-05	2.27E-05
955	258719.4	4084824	5.86E-05	8.47E-04	6.25E-04	6.25E-04	3.48E-04	8.89E-06	1.29E-04	9.75E-05	9.75E-05	5.36E-05	4.83E-06	6.99E-05	4.34E-05	4.34E-05	2.15E-05
956	258729.2	4084846	5.47E-05	7.92E-04	5.83E-04	5.83E-04	3.25E-04	8.31E-06	1.21E-04	9.11E-05	9.11E-05	5.01E-05	4.51E-06	6.52E-05	4.05E-05	4.05E-05	2.01E-05
957	258739	4084867	5.06E-05	7.32E-04	5.40E-04	5.40E-04	3.01E-04	7.68E-06	1.12E-04	8.43E-05	8.43E-05	4.63E-05	4.17E-06	6.03E-05	3.75E-05	3.75E-05	1.86E-05
958	258748.7	4084889	4.65E-05	6.72E-04	4.95E-04	4.95E-04	2.76E-04	7.05E-06	1.02E-04	7.73E-05	7.73E-05	4.25E-05	3.83E-06	5.54E-05	3.44E-05	3.44E-05	1.70E-05
959	258342.3	4084522	4.12E-05	5.97E-04	4.40E-04	4.40E-04	2.45E-04	6.26E-06	9.09E-05	6.86E-05	6.86E-05	3.77E-05	3.40E-06	4.92E-05	3.05E-05	3.05E-05	1.51E-05
960	258317.9	4084523	4.04E-05	5.84E-04	4.31E-04	4.31E-04	2.40E-04	6.13E-06	8.90E-05	6.73E-05	6.73E-05	3.70E-05	3.33E-06	4.82E-05	2.99E-05	2.99E-05	1.48E-05
961	258293.6	4084524	3.95E-05	5.71E-04	4.21E-04	4.21E-04	2.35E-04	5.99E-06	8.70E-05	6.57E-05	6.57E-05	3.61E-05	3.25E-06	4.71E-05	2.92E-05	2.92E-05	1.45E-05
962	258269.3	4084525	3.85E-05	5.56E-04	4.10E-04	4.10E-04	2.29E-04	5.84E-06	8.47E-05	6.40E-05	6.40E-05	3.52E-05	3.17E-06	4.58E-05	2.85E-05	2.85E-05	1.41E-05
963	258244.9	4084526	3.73E-05	5.40E-04	3.98E-04	3.98E-04	2.22E-04	5.67E-06	8.23E-05	6.22E-05	6.22E-05	3.42E-05	3.08E-06	4.45E-05	2.77E-05	2.77E-05	1.37E-05
964	258220.6	4084527	3.61E-05	5.23E-04	3.85E-04	3.85E-04	2.15E-04	5.49E-06	7.97E-05	6.02E-05	6.02E-05	3.31E-05	2.98E-06	4.31E-05	2.68E-05	2.68E-05	1.33E-05
965	258196.3	4084528	3.49E-05	5.04E-04	3.72E-04	3.72E-04	2.07E-04	5.29E-06	7.69E-05	5.81E-05	5.81E-05	3.19E-05	2.88E-06	4.16E-05	2.58E-05	2.58E-05	1.28E-05
966	258171.9	4084529	3.35E-05	4.85E-04	3.58E-04	3.58E-04	1.99E-04	5.09E-06	7.39E-05	5.58E-05	5.58E-05	3.07E-05	2.77E-06	4.00E-05	2.48E-05	2.48E-05	1.23E-05
967	258147.6	4084530	3.22E-05	4.65E-04	3.43E-04	3.43E-04	1.91E-04	4.88E-06	7.08E-05	5.35E-05	5.35E-05	2.94E-05	2.65E-06	3.83E-05	2.38E-05	2.38E-05	1.18E-05
968	258123.3	4084531	3.07E-05	4.44E-04	3.27E-04	3.27E-04	1.83E-04	4.66E-06	6.77E-05	5.11E-05	5.11E-05	2.81E-05	2.53E-06	3.66E-05	2.27E-05	2.27E-05	1.13E-05
969	258098.9	4084532	2.92E-05	4.23E-04	3.12E-04	3.12E-04	1.74E-04	4.44E-06	6.44E-05	4.87E-05	4.87E-05	2.68E-05	2.41E-06	3.49E-05	2.17E-05	2.17E-05	1.07E-05
970	258074.6	4084533	2.77E-05	4.01E-04	2.96E-04	2.96E-04	1.65E-04	4.21E-06	6.11E-05	4.61E-05	4.61E-05	2.54E-05	2.29E-06	3.31E-05	2.05E-05	2.05E-05	1.02E-05
971	258050.3	4084534	2.62E-05	3.79E-04	2.79E-04	2.79E-04	1.56E-04	3.98E-06	5.77E-05	4.36E-05	4.36E-05	2.40E-05	2.16E-06	3.12E-05	1.94E-05	1.94E-05	9.60E-06
972	258025.9	4084535	2.47E-05	3.57E-04	2.63E-04	2.63E-04	1.47E-04	3.74E-06	5.43E-05	4.10E-05	4.10E-05	2.26E-05	2.03E-06	2.94E-05	1.83E-05	1.83E-05	9.04E-06
973	258001.6	4084536	2.31E-05	3.35E-04	2.47E-04	2.47E-04	1.37E-04	3.51E-06	5.10E-05	3.85E-05	3.85E-05	2.12E-05	1.91E-06	2.76E-05	1.71E-05	1.71E-05	8.48E-06
974	257977.3	4084537	2.16E-05	3.13E-04	2.30E-04	2.30E-04	1.28E-04	3.28E-06	4.76E-05	3.60E-05	3.60E-05	1.98E-05	1.78E-06	2.58E-05	1.60E-05	1.60E-05	7.92E-06
975	257952.9	4084538	2.01E-05	2.91E-04	2.15E-04	2.15E-04	1.20E-04	3.06E-06	4.44E-05	3.35E-05	3.35E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.38E-06
976	257928.6	4084539	1.87E-05	2.71E-04	2.00E-04	2.00E-04	1.11E-04	2.84E-06	4.12E-05	3.12E-05	3.12E-05	1.71E-05	1.54E-06	2.23E-05	1.39E-05	1.39E-05	6.86E-06
977	257904.3	4084540	1.74E-05	2.51E-04	1.85E-04	1.85E-04	1.03E-04	2.64E-06	3.83E-05	2.89E-05	2.89E-05	1.59E-05	1.43E-06	2.07E-05	1.29E-05	1.29E-05	6.37E-06
978	257879.9	4084541	1.61E-05	2.33E-04	1.72E-04	1.72E-04	9.56E-05	2.44E-06	3.54E-05	2.68E-05	2.68E-05	1.47E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.90E-06
979	257855.6	4084542	1.49E-05	2.15E-04	1.59E-04	1.59E-04	8.86E-05	2.26E-06	3.28E-05	2.48E-05	2.48E-05	1.36E-05	1.23E-06	1.78E-05	1.10E-05	1.10E-05	5.46E-06
980	257831.3	4084543	1.38E-05	2.00E-04	1.47E-04	1.47E-04	8.20E-05	2.10E-06	3.04E-05	2.30E-05	2.30E-05	1.26E-05	1.14E-06	1.65E-05	1.02E-05	1.02E-05	5.06E-06
981	257807	4084544	1.28E-05	1.85E-04	1.36E-04	1.36E-04	7.61E-05	1.94E-06	2.82E-05	2.13E-05	2.13E-05	1.17E-05	1.06E-06	1.53E-05	9.48E-06	9.48E-06	4.69E-06
982	257782.6	4084545	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.07E-05	1.81E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.80E-07	1.42E-05	8.81E-06	8.81E-06	4.36E-06
983	257758.3	4084546	1.11E-05	1.60E-04	1.18E-04	1.18E-04	6.58E-05	1.68E-06	2.44E-05	1.84E-05	1.84E-05	1.01E-05	9.13E-07	1.32E-05	8.20E-06	8.20E-06	4.06E-06
984	257734	4084547	1.03E-05	1.50E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.46E-06	8.52E-07	1.23E-05	7.66E-06	7.66E-06	3.79E-06
985	257709.6	4084548	9.68E-06	1.40E-04	1.03E-04	1.03E-04	5.75E-05	1.47E-06	2.13E-05	1.61E-05	1.61E-05	8.86E-06	7.98E-07	1.15E-05	7.17E-06	7.17E-06	3.55E-06
986	257685.3	4084549	9.09E-06	1.31E-04	9.69E-05	9.69E-05	5.40E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.32E-06	7.49E-07	1.08E-05	6.73E-06	6.73E-06	3.33E-06
987	257661	4084550	8.56E-06	1.24E-04	9.12E-05	9.12E-05	5.09E-05	1.30E-06	1.89E-05	1.42E-05	1.42E-05	7.83E-06	7.06E-07	1.02E-05	6.34E-06	6.34E-06	3.14E-06
988	257636.6	4084551	8.08E-06	1.17E-04	8.62E-05	8.62E-05	4.80E-05	1.23E-06	1.78E-05	1.35E-05	1.35E-05	7.40E-06	6.66E-07	9.64E-06	5.99E-06	5.99E-06	2.96E-06
989	257612.3	4084552	7.66E-06	1.11E-04	8.16E-05	8.16E-05	4.55E-05	1.16E-06	1.69E-05	1.27E-05	1.27E-05	7.01E-06	6.31E-07	9.13E-06	5.67E-06	5.67E-06	2.81E-06
990	257588	4084553	7.27E-06	1.05E-04	7.75E-05	7.75E-05	4.32E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.65E-06	5.99E-07	8.66E-06	5.38E-06	5.38E-06	2.66E-06
991	257563.6	4084554	6.91E-06	1.00E-04	7.37E-05	7.37E-05	4.11E-05	1.05E-06	1.52E-05	1.15E-05	1.15E-05	6.32E-06	5.70E-07	8.24E-06	5.12E-06	5.12E-06	2.53E-06
992	257539.3	4084555	6.58E-06	9.52E-05	7.02E-05	7.02E-05	3.91E-05	9.99E-07	1.45E-05	1.10E-05	1.10E-05	6.02E-06	5.43E-07	7.85E-06	4.88E-06	4.88E-06	2.41E-06
993	258360.7	4084431	2.83E-05	4.10E-04	3.02E-04	3.02E-04	1.68E-04	4.30E-06	6.24E-05	4.71E-05	4.71E-05	2.59E-05	2.33E-06	3.38E-05	2.10E-05	2.10E-05	1.04E-05
994	258383.3	4084439	3.01E-05	4.36E-04	3.21E-04	3.21E-04	1.79E-04	4.57E-06	6.64E-05	5.01E-05	5.01E-05	2.76E-05	2.48E-06	3.59E-05	2.23E-05	2.23E-05	1.10E-05
995	258405.9	4084448	3.19E-05	4.61E-04	3.40E-04	3.40E-04	1.90E-04	4.84E-06	7.03E-05	5.31E-05	5.31E-05	2.92E-05	2.63E-06	3.80E-05	2.36E-05	2.36E-05	1.17E-05
996	258428.5	4084456	3.37E-05	4.87E-04	3.59E-04	3.59E-04	2.00E-04	5.11E-06	7.42E-05	5.61E-05	5.61E-05	3.08E-05	2.78E-06	4.02E-05	2.49E-05	2.49E-05	1.23E-05
997	258451.1	4084464	3.54E-05	5.12E-04	3.78E-04	3.78E-04	2.10E-04	5.37E-06	7.80E-05	5.89E-05	5.89E-05	3.24E-05	2.92E-06	4.22E-05	2.62E-05	2.62E-05	1.30E-05
998	258473.7	4084473	3.71E-05	5.37E-04	3.96E-04	3.96E-04	2.21E-04	5.63E-06	8.18E-05	6.18E-05	6.18E-05	3.40E-05	3.06E-06	4.43E-05	2.75E-05	2.75E-05	1.36E-05
999	258496.3	4084481	3.88E-05	5.61E-04	4.13E-04	4.13E-04	2.30E-04	5.88E-06	8.54E-05	6.45E-05	6.45E-05	3.55E-05	3.20E-06	4.62E-05	2.87E-05	2.87E-05	1.42E-05
1000	258518.9	4084489	4.03E-05	5.83E-04	4.30E-04	4.30E-04	2.40E-04	6.12E-06	8.89E-05	6.71E-05	6.71E-05	3.69E-05	3.33E-06	4.81E-05	2.99E-05	2.99E-05	1.48E-05
1001	258541.5	4084498	4.18E-05	6.05E-04	4.46E-04	4.46E-04	2.48E-04	6.34E-06	9.21E-05	6.96E-05	6.96E-05	3.83E-05	3.45E-06	4.98E-05	3.10E-05	3.10E-05	1.53E-05
1002	258564.1	4084506	4.31E-05	6.24E-04	4.60E-04	4.60E-04	2.56E-04	6.55E-06	9.50E-05	7.18E-05	7.18E-05	3.95E-05	3.56E-06	5.14E-05	3.19E-05	3.19E-05	1.58E-05
1003	258586.6	4084514	4.43E-05	6.41E-04	4.72E-04	4.72E-04	2.63E-04	6.72E-06	9.76E-05	7.37E-05	7.37E-05	4.05E-05	3.65E-06	5.28E-05	3.28E-05	3.28E-05	1.62E-05
1004	258609.2	4084523	4.52E-05	6.54E-04	4.82E-04	4.82E-04	2.69E-04	6.87E-06	9.97E-05	7.53E-05	7.53E-05	4.14E-05	3.73E-06	5.39E-05	3.35E-05	3.35E-05	1.66E-05
1005	258631.8	4084531	4.60E-05	6.65E-04	4.90E-04	4.90E-04	2.73E-04	6.98E-06	1.01E-04	7.65E-05	7.65E-05	4.21E-05	3.79E-06	5.48E-05	3.40E-05	3.40E-05	1.68E-05
1006	258654.4	4084540	4.64E-05	6.71E-04	4.95E-04	4.95E-04	2.76E-04	7.04E-06	1.02E-04	7.73E-05	7.73E-05	4.25E-05	3.83E-06	5.53E-05	3.44E-05	3.44E-05	1.70E-05
1007	258677	4084548	4.66E-05	6.73E-04	4.96E-04	4.96E-04	2.77E-04	7.07E-06	1.03E-04	7.75E-05	7.75E-05	4.26E-05	3.84E-06	5.55E-05	3.45E-05	3.45E-05	1.71E-05
1008	258709.5	4084578	4.80E-05	6.95E-04	5.12E-04	5.12E-04	2.85E-04	7.29E-06	1.06E-04	7.99E-05	7.99E-05	4.40E-05	3.96E-06	5.73E-05	3.56E-05	3.56E-05	1.76E-05
1009	258719.5	4084600	4.95E-05	7.16E-04	5.28E-04	5.28E-04	2.94E-04	7.51E-06	1.09E-04	8.24E-05	8.24E-05	4.53E-05	4.08E-06	5.90E-05	3.67E-05	3.67E-05	1.81E-05
1010	258729.4	4084622	5.06E-05	7.32E-04	5.39E-04	5.39E-04	3.01E-04	7.68E-06	1.12E-04	8.42E-05	8.42E-05	4.63E-05	4.17E-06	6.03E-05	3.75E-05	3.75E-05	1.86E-05
1011	258739.3	4084644	5.13E-05	7.42E-04	5.47E-04	5.47E-04	3.05E-04	7.78E-06	1.13E-04	8.53E-05	8.53E-05	4.69E-05	4.23E-06	6.11E-05	3.80E-05	3.80E-05	1.88E-05
1012	258749.2	4084666	5.14E-05	7.44E-04	5.48E-04	5.48E-04	3.06E-04	7.81E-06	1.13E-04	8.56E-05	8.56E-05	4.71E-05	4.24E-06	6.13E-05	3.81E-05	3.81E-05	1.89E-05
1013	258759.2	4084688	5.11E-05	7.39E-04	5.45E-04	5.45E-04	3.04E-04	7.75E-06	1.13E-04	8.50E-05	8.50E-05	4.68E-05	4.21E-06	6.09E-05	3.78E-05	3.78E-05	1.87E-05
1014	258769.1	4084710	5.02E-05	7.26E-04	5.35E-04	5.35E-04	2.98E-04	7.62E-06	1.11E-04	8.36E-05	8.36E-05	4.59E-05	4.14E-06	5.99E-05	3.72E-05	3.72E-05	1.84E-05
1015	258779	4084732	4.88E-05	7.06E-04	5.20E-04	5.20E-04	2.90E-04	7.41E-06	1.08E-04	8.12E-05	8.12E-05	4.47E-05	4.02E-06	5.82E-05	3.61E-05	3.61E-05	1.79E-05
1016	258789	4084754	4.70E-05	6.79E-04	5.01E-04	5.01E-04	2.79E-04	7.13E-06	1.03E-04	7.81E-05	7.81E-05	4.30E-05	3.87E-06	5.60E-05	3.48E-05	3.48E-05	1.72E-05
1017	258798.9	4084776	4.47E-05	6.47E-04	4.77E-04	4.77E-04	2.66E-04	6.79E-06	9.85E-05	7.44E-05	7.44E-05	4.09E-05	3.69E-06	5.33E-05	3.31E-05	3.31E-05	1.64E-05
1018	258808.8	4084798	4.22E-05	6.11E-04	4.50E-04	4.50E-04	2.51E-04	6.41E-06	9.30E-05	7.03E-05	7.03E-05	3.86E-05	3.48E-06	5.03E-05	3.13E-05	3.13E-05	1.55E-05
1019	258818.8	4084820	3.95E-05	5.72E-04	4.21E-04	4.21E-04	2.35E-04	6.00E-06	8.71E-05	6.58E-05	6.58E-05	3.62E-05	3.26E-06	4.71E-05	2.93E-05	2.93E-05	1.45E-05
1020	258828.7	4084842	3.68E-05	5.32E-04	3.92E-04	3.92E-04	2.19E-04	5.58E-06	8.10E-05	6.12E-05	6.12E-05	3.36E-05	3.03E-06	4.38E-05	2.72E-05	2.72E-05	1.35E-05
1021	258838.6	4084864	3.40E-05	4.92E-04	3.63E-04	3.63E-04	2.02E-04	5.17E-06	7.50E-05	5.67E-05	5.67E-05	3.11E-05	2.81E-06	4.06E-05	2.52E-05	2.52E-05	1.25E-05
1022	258848.5	4084886	3.14E-05	4.54E-04	3.35E-04	3.35E-04	1.87E-04	4.76E-06	6.92E-05	5.23E-05	5.23E-05	2.87E-05	2.59E-06	3.74E-05	2.32E-05	2.32E-05	1.15E-05
1023	258338.1	4084422	2.66E-05	3.84E-04	2.83E-04	2.83E-04	1.58E-04	4.03E-06	5.85E-05	4.42E-05	4.42E-05	2.43E-05	2.19E-06	3.17E-05	1.97E-05	1.97E-05	9.73E-06
1024	258313.8	4084423	2.58E-05	3.73E-04	2.75E-04	2.75E-04	1.53E-04	3.91E-06	5.68E-05	4.29E-05	4.29E-05	2.36E-05	2.12E-06	3.07E-05	1.91E-05	1.91E-05	9.45E-06
1025	258289.5	4084424	2.49E-05	3.61E-04	2.66E-04	2.66E-04	1.48E-04	3.78E-06	5.49E-05	4.15E-05	4.15E-05	2.28E-05	2.06E-06	2.97E-05	1.85E-05	1.85E-05	9.14E-06
1026	258265.2	4084425	2.41E-05	3.48E-04	2.56E-04	2.56E-04	1.43E-04	3.65E-06	5.30E-05	4.00E-05	4.00E-05	2.20E-05	1.98E-06	2.87E-05	1.78E-05	1.78E-05	8.82E-06

1027	258240.8	4084426	2.31E-05	3.35E-04	2.47E-04	2.47E-04	1.38E-04	3.51E-06	5.10E-05	3.85E-05	3.85E-05	2.12E-05	1.91E-06	2.76E-05	1.71E-05	1.71E-05	8.48E-06
1028	258216.5	4084427	2.22E-05	3.21E-04	2.37E-04	2.37E-04	1.32E-04	3.37E-06	4.89E-05	3.69E-05	3.69E-05	2.03E-05	1.83E-06	2.65E-05	1.64E-05	1.64E-05	8.14E-06
1029	258192.2	4084428	2.12E-05	3.07E-04	2.26E-04	2.26E-04	1.26E-04	3.22E-06	4.68E-05	3.53E-05	3.53E-05	1.94E-05	1.75E-06	2.53E-05	1.57E-05	1.57E-05	7.78E-06
1030	258167.8	4084429	2.02E-05	2.93E-04	2.16E-04	2.16E-04	1.20E-04	3.07E-06	4.46E-05	3.37E-05	3.37E-05	1.85E-05	1.67E-06	2.41E-05	1.50E-05	1.50E-05	7.42E-06
1031	258143.5	4084430	1.92E-05	2.78E-04	2.05E-04	2.05E-04	1.14E-04	2.92E-06	4.24E-05	3.20E-05	3.20E-05	1.76E-05	1.59E-06	2.29E-05	1.42E-05	1.42E-05	7.05E-06
1032	258119.2	4084431	1.82E-05	2.64E-04	1.94E-04	1.94E-04	1.08E-04	2.77E-06	4.02E-05	3.03E-05	3.03E-05	1.67E-05	1.50E-06	2.17E-05	1.35E-05	1.35E-05	6.68E-06
1033	258094.8	4084432	1.72E-05	2.49E-04	1.84E-04	1.84E-04	1.02E-04	2.62E-06	3.80E-05	2.87E-05	2.87E-05	1.58E-05	1.42E-06	2.06E-05	1.28E-05	1.28E-05	6.32E-06
1034	258070.5	4084433	1.63E-05	2.35E-04	1.73E-04	1.73E-04	9.67E-05	2.47E-06	3.59E-05	2.71E-05	2.71E-05	1.49E-05	1.34E-06	1.94E-05	1.21E-05	1.21E-05	5.97E-06
1035	258046.2	4084434	1.53E-05	2.22E-04	1.63E-04	1.63E-04	9.11E-05	2.33E-06	3.38E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.83E-05	1.14E-05	1.14E-05	5.62E-06
1036	258021.8	4084435	1.44E-05	2.08E-04	1.54E-04	1.54E-04	8.57E-05	2.19E-06	3.18E-05	2.40E-05	2.40E-05	1.32E-05	1.19E-06	1.72E-05	1.07E-05	1.07E-05	5.28E-06
1037	257997.5	4084436	1.35E-05	1.96E-04	1.44E-04	1.44E-04	8.05E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.12E-06	1.61E-05	1.00E-05	1.00E-05	4.96E-06
1038	257973.2	4084437	1.27E-05	1.84E-04	1.35E-04	1.35E-04	7.55E-05	1.93E-06	2.80E-05	2.11E-05	2.11E-05	1.16E-05	1.05E-06	1.51E-05	9.41E-06	9.41E-06	4.66E-06
1039	257948.8	4084438	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.08E-05	1.81E-06	2.63E-05	1.98E-05	1.98E-05	1.09E-05	9.82E-07	1.42E-05	8.82E-06	8.82E-06	4.37E-06
1040	257924.5	4084439	1.12E-05	1.62E-04	1.19E-04	1.19E-04	6.64E-05	1.70E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.21E-07	1.33E-05	8.28E-06	8.28E-06	4.10E-06
1041	257900.2	4084440	1.05E-05	1.52E-04	1.12E-04	1.12E-04	6.23E-05	1.59E-06	2.31E-05	1.74E-05	1.74E-05	9.59E-06	8.64E-07	1.25E-05	7.76E-06	7.76E-06	3.84E-06
1042	257875.8	4084441	9.84E-06	1.42E-04	1.05E-04	1.05E-04	5.85E-05	1.49E-06	2.17E-05	1.64E-05	1.64E-05	9.00E-06	8.11E-07	1.17E-05	7.28E-06	7.28E-06	3.61E-06
1043	257851.5	4084442	9.24E-06	1.34E-04	9.85E-05	9.85E-05	5.49E-05	1.40E-06	2.04E-05	1.54E-05	1.54E-05	8.45E-06	7.61E-07	1.10E-05	6.84E-06	6.84E-06	3.39E-06
1044	257827.2	4084443	8.68E-06	1.26E-04	9.26E-05	9.26E-05	5.16E-05	1.32E-06	1.91E-05	1.45E-05	1.45E-05	7.95E-06	7.16E-07	1.04E-05	6.43E-06	6.43E-06	3.18E-06
1045	257802.8	4084444	8.18E-06	1.18E-04	8.72E-05	8.72E-05	4.86E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.48E-06	6.74E-07	9.75E-06	6.06E-06	6.06E-06	3.00E-06
1046	257778.5	4084445	7.72E-06	1.12E-04	8.23E-05	8.23E-05	4.59E-05	1.17E-06	1.70E-05	1.28E-05	1.28E-05	7.06E-06	6.36E-07	9.20E-06	5.71E-06	5.71E-06	2.83E-06
1047	257754.2	4084446	7.30E-06	1.06E-04	7.78E-05	7.78E-05	4.34E-05	1.11E-06	1.61E-05	1.21E-05	1.21E-05	6.68E-06	6.02E-07	8.70E-06	5.41E-06	5.41E-06	2.68E-06
1048	257729.9	4084447	6.92E-06	1.00E-04	7.38E-05	7.38E-05	4.12E-05	1.05E-06	1.53E-05	1.15E-05	1.15E-05	6.34E-06	5.71E-07	8.25E-06	5.13E-06	5.13E-06	2.54E-06
1049	257705.5	4084448	6.58E-06	9.52E-05	7.02E-05	7.02E-05	3.91E-05	9.99E-07	1.45E-05	1.10E-05	1.10E-05	6.02E-06	5.43E-07	7.85E-06	4.88E-06	4.88E-06	2.41E-06
1050	257681.2	4084449	6.28E-06	9.08E-05	6.69E-05	6.69E-05	3.73E-05	9.53E-07	1.38E-05	1.05E-05	1.05E-05	5.75E-06	5.18E-07	7.49E-06	4.65E-06	4.65E-06	2.30E-06
1051	257656.9	4084450	6.00E-06	8.68E-05	6.40E-05	6.40E-05	3.57E-05	9.11E-07	1.32E-05	9.99E-06	9.99E-06	5.49E-06	4.95E-07	7.16E-06	4.45E-06	4.45E-06	2.20E-06
1052	257632.5	4084451	5.75E-06	8.32E-05	6.13E-05	6.13E-05	3.42E-05	8.73E-07	1.27E-05	9.58E-06	9.58E-06	5.27E-06	4.74E-07	6.86E-06	4.26E-06	4.26E-06	2.11E-06
1053	257608.2	4084452	5.53E-06	7.99E-05	5.89E-05	5.89E-05	3.28E-05	8.39E-07	1.22E-05	9.20E-06	9.20E-06	5.06E-06	4.56E-07	6.59E-06	4.09E-06	4.09E-06	2.03E-06
1054	257583.9	4084453	5.32E-06	7.69E-05	5.67E-05	5.67E-05	3.16E-05	8.07E-07	1.17E-05	8.85E-06	8.85E-06	4.86E-06	4.38E-07	6.34E-06	3.94E-06	3.94E-06	1.95E-06
1055	257559.5	4084454	5.12E-06	7.40E-05	5.46E-05	5.46E-05	3.04E-05	7.77E-07	1.13E-05	8.52E-06	8.52E-06	4.68E-06	4.22E-07	6.10E-06	3.79E-06	3.79E-06	1.88E-06
1056	257535.2	4084455	4.93E-06	7.14E-05	5.26E-05	5.26E-05	2.93E-05	7.49E-07	1.09E-05	8.21E-06	8.21E-06	4.52E-06	4.07E-07	5.88E-06	3.65E-06	3.65E-06	1.81E-06
1057	258356.9	4084331	1.88E-05	2.72E-04	2.00E-04	2.00E-04	1.12E-04	2.85E-06	4.14E-05	3.13E-05	3.13E-05	1.72E-05	1.55E-06	2.24E-05	1.39E-05	1.39E-05	6.89E-06
1058	258379.7	4084339	2.01E-05	2.91E-04	2.14E-04	2.14E-04	1.19E-04	3.05E-06	4.43E-05	3.34E-05	3.34E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.36E-06
1059	258402.5	4084348	2.14E-05	3.10E-04	2.28E-04	2.28E-04	1.27E-04	3.25E-06	4.72E-05	3.57E-05	3.57E-05	1.96E-05	1.77E-06	2.55E-05	1.59E-05	1.59E-05	7.85E-06
1060	258425.4	4084356	2.28E-05	3.29E-04	2.43E-04	2.43E-04	1.35E-04	3.46E-06	5.02E-05	3.79E-05	3.79E-05	2.08E-05	1.88E-06	2.71E-05	1.69E-05	1.69E-05	8.35E-06
1061	258448.2	4084365	2.41E-05	3.49E-04	2.57E-04	2.57E-04	1.43E-04	3.66E-06	5.31E-05	4.01E-05	4.01E-05	2.21E-05	1.99E-06	2.88E-05	1.79E-05	1.79E-05	8.84E-06
1062	258471	4084373	2.55E-05	3.68E-04	2.72E-04	2.72E-04	1.51E-04	3.87E-06	5.61E-05	4.24E-05	4.24E-05	2.33E-05	2.10E-06	3.04E-05	1.89E-05	1.89E-05	9.34E-06
1063	258493.8	4084382	2.68E-05	3.88E-04	2.86E-04	2.86E-04	1.59E-04	4.07E-06	5.91E-05	4.46E-05	4.46E-05	2.45E-05	2.21E-06	3.20E-05	1.99E-05	1.99E-05	9.83E-06
1064	258516.7	4084390	2.81E-05	4.07E-04	3.00E-04	3.00E-04	1.67E-04	4.27E-06	6.20E-05	4.68E-05	4.68E-05	2.57E-05	2.32E-06	3.35E-05	2.08E-05	2.08E-05	1.03E-05
1065	258539.5	4084399	2.94E-05	4.25E-04	3.14E-04	3.14E-04	1.75E-04	4.46E-06	6.48E-05	4.90E-05	4.90E-05	2.69E-05	2.42E-06	3.51E-05	2.18E-05	2.18E-05	1.08E-05
1066	258562.3	4084407	3.06E-05	4.43E-04	3.27E-04	3.27E-04	1.82E-04	4.65E-06	6.75E-05	5.10E-05	5.10E-05	2.80E-05	2.53E-06	3.65E-05	2.27E-05	2.27E-05	1.12E-05
1067	258585.2	4084416	3.18E-05	4.60E-04	3.39E-04	3.39E-04	1.89E-04	4.83E-06	7.01E-05	5.29E-05	5.29E-05	2.91E-05	2.62E-06	3.79E-05	2.36E-05	2.36E-05	1.17E-05
1068	258608	4084424	3.29E-05	4.76E-04	3.50E-04	3.50E-04	1.95E-04	4.99E-06	7.24E-05	5.47E-05	5.47E-05	3.01E-05	2.71E-06	3.92E-05	2.43E-05	2.43E-05	1.21E-05
1069	258630.8	4084432	3.38E-05	4.90E-04	3.61E-04	3.61E-04	2.01E-04	5.14E-06	7.46E-05	5.63E-05	5.63E-05	3.10E-05	2.79E-06	4.04E-05	2.51E-05	2.51E-05	1.24E-05
1070	258653.6	4084441	3.47E-05	5.02E-04	3.70E-04	3.70E-04	2.06E-04	5.27E-06	7.65E-05	5.78E-05	5.78E-05	3.18E-05	2.86E-06	4.14E-05	2.57E-05	2.57E-05	1.27E-05
1071	258676.5	4084449	3.54E-05	5.12E-04	3.78E-04	3.78E-04	2.10E-04	5.37E-06	7.80E-05	5.89E-05	5.89E-05	3.24E-05	2.92E-06	4.22E-05	2.62E-05	2.62E-05	1.30E-05
1072	258699.3	4084458	3.60E-05	5.20E-04	3.83E-04	3.83E-04	2.14E-04	5.46E-06	7.92E-05	5.98E-05	5.98E-05	3.29E-05	2.96E-06	4.29E-05	2.66E-05	2.66E-05	1.32E-05
1073	258722.1	4084466	3.63E-05	5.24E-04	3.86E-04	3.86E-04	2.15E-04	5.50E-06	7.99E-05	6.03E-05	6.03E-05	3.32E-05	2.99E-06	4.32E-05	2.68E-05	2.68E-05	1.33E-05
1074	258745	4084475	3.64E-05	5.26E-04	3.88E-04	3.88E-04	2.16E-04	5.52E-06	8.01E-05	6.05E-05	6.05E-05	3.33E-05	3.00E-06	4.34E-05	2.69E-05	2.69E-05	1.33E-05
1075	258777.8	4084505	3.76E-05	5.44E-04	4.01E-04	4.01E-04	2.23E-04	5.71E-06	8.28E-05	6.26E-05	6.26E-05	3.44E-05	3.10E-06	4.48E-05	2.78E-05	2.78E-05	1.38E-05
1076	258787.9	4084528	3.87E-05	5.60E-04	4.12E-04	4.12E-04	2.30E-04	5.87E-06	8.53E-05	6.44E-05	6.44E-05	3.54E-05	3.19E-06	4.61E-05	2.87E-05	2.87E-05	1.42E-05
1077	258797.9	4084550	3.95E-05	5.72E-04	4.22E-04	4.22E-04	2.35E-04	6.00E-06	8.71E-05	6.58E-05	6.58E-05	3.62E-05	3.26E-06	4.71E-05	2.93E-05	2.93E-05	1.45E-05
1078	258807.9	4084572	4.01E-05	5.81E-04	4.28E-04	4.28E-04	2.39E-04	6.09E-06	8.84E-05	6.68E-05	6.68E-05	3.67E-05	3.31E-06	4.79E-05	2.97E-05	2.97E-05	1.47E-05
1079	258818	4084594	4.04E-05	5.85E-04	4.31E-04	4.31E-04	2.40E-04	6.14E-06	8.91E-05	6.73E-05	6.73E-05	3.70E-05	3.33E-06	4.82E-05	2.99E-05	2.99E-05	1.48E-05
1080	258828	4084616	4.04E-05	5.84E-04	4.31E-04	4.31E-04	2.40E-04	6.13E-06	8.90E-05	6.72E-05	6.72E-05	3.70E-05	3.33E-06	4.82E-05	2.99E-05	2.99E-05	1.48E-05
1081	258838	4084638	4.00E-05	5.79E-04	4.27E-04	4.27E-04	2.38E-04	6.08E-06	8.82E-05	6.66E-05	6.66E-05	3.66E-05	3.30E-06	4.77E-05	2.97E-05	2.97E-05	1.47E-05
1082	258848.1	4084661	3.94E-05	5.69E-04	4.19E-04	4.19E-04	2.34E-04	5.97E-06	8.67E-05	6.55E-05	6.55E-05	3.60E-05	3.24E-06	4.69E-05	2.91E-05	2.91E-05	1.44E-05
1083	258858.1	4084683	3.83E-05	5.55E-04	4.09E-04	4.09E-04	2.28E-04	5.82E-06	8.45E-05	6.38E-05	6.38E-05	3.51E-05	3.16E-06	4.57E-05	2.84E-05	2.84E-05	1.41E-05
1084	258868.1	4084705	3.71E-05	5.36E-04	3.95E-04	3.95E-04	2.20E-04	5.63E-06	8.17E-05	6.17E-05	6.17E-05	3.39E-05	3.06E-06	4.42E-05	2.74E-05	2.74E-05	1.36E-05
1085	258878.2	4084727	3.55E-05	5.14E-04	3.79E-04	3.79E-04	2.11E-04	5.39E-06	7.83E-05	5.92E-05	5.92E-05	3.25E-05	2.93E-06	4.24E-05	2.63E-05	2.63E-05	1.30E-05
1086	258888.2	4084749	3.38E-05	4.89E-04	3.61E-04	3.61E-04	2.01E-04	5.13E-06	7.45E-05	5.63E-05	5.63E-05	3.10E-05	2.79E-06	4.03E-05	2.51E-05	2.51E-05	1.24E-05
1087	258898.2	4084771	3.20E-05	4.63E-04	3.41E-04	3.41E-04	1.90E-04	4.86E-06	7.05E-05	5.32E-05	5.32E-05	2.93E-05	2.64E-06	3.81E-05	2.37E-05	2.37E-05	1.17E-05
1088	258908.3	4084794	3.01E-05	4.35E-04	3.21E-04	3.21E-04	1.79E-04	4.56E-06	6.63E-05	5.01E-05	5.01E-05	2.75E-05	2.48E-06	3.59E-05	2.23E-05	2.23E-05	1.10E-05
1089	258918.3	4084816	2.82E-05	4.07E-04	3.00E-04	3.00E-04	1.67E-04	4.27E-06	6.20E-05	4.69E-05	4.69E-05	2.58E-05	2.32E-06	3.36E-05	2.08E-05	2.08E-05	1.03E-05
1090	258928.3	4084838	2.63E-05	3.80E-04	2.80E-04	2.80E-04	1.56E-04	3.99E-06	5.79E-05	4.37E-05	4.37E-05	2.40E-05	2.17E-06	3.13E-05	1.95E-05	1.95E-05	9.63E-06
1091	258938.4	4084860	2.45E-05	3.54E-04	2.61E-04	2.61E-04	1.45E-04	3.71E-06	5.39E-05	4.07E-05	4.07E-05	2.24E-05	2.02E-06	2.92E-05	1.81E-05	1.81E-05	8.96E-06
1092	258948.4	4084882	2.27E-05	3.29E-04	2.42E-04	2.42E-04	1.35E-04	3.45E-06	5.01E-05	3.78E-05	3.78E-05	2.08E-05	1.87E-06	2.71E-05	1.68E-05	1.68E-05	8.33E-06
1093	258334	4084323	1.75E-05	2.53E-04	1.87E-04	1.87E-04	1.04E-04	2.66E-06	3.86E-05	2.92E-05	2.92E-05	1.60E-05	1.44E-06	2.09E-05	1.30E-05	1.30E-05	6.42E-06
1094	258309.7	4084324	1.69E-05	2.44E-04	1.80E-04	1.80E-04	1.00E-04	2.56E-06	3.72E-05	2.81E-05	2.81E-05	1.54E-05	1.39E-06	2.01E-05	1.25E-05	1.25E-05	6.19E-06
1095	258285.4	4084325	1.62E-05	2.35E-04	1.73E-04	1.73E-04	9.64E-05	2.46E-06	3.57E-05	2.70E-05	2.70E-05	1.48E-05	1.34E-06	1.93E-05	1.20E-05	1.20E-05	5.95E-06
1096	258261	4084326	1.56E-05	2.25E-04	1.66E-04	1.66E-04	9.25E-05	2.36E-06	3.43E-05	2.59E-05	2.59E-05	1.42E-05	1.28E-06	1.85E-05	1.15E-05	1.15E-05	5.70E-06
1097	258236.7	4084327	1.49E-05	2.15E-04	1.59E-04	1.59E-04	8.84E-05	2.26E-06	3.28E-05	2.48E-05	2.48E-05	1.36E-05	1.23E-06	1.77E-05	1.10E-05	1.10E-05	5.45E-06
1098	258212.4	4084328	1.42E-05	2.05E-04	1.51E-04	1.51E-04	8.44E-05	2.15E-06	3.13E-05	2.36E-05	2.36E-05	1.30E-05	1.17E-06	1.69E-05	1.05E-05	1.05E-05	5.20E-06
1099	258188	4084329	1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.03E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.11E-06	1.61E-05	1.00E-05	1.00E-05	4.95E-06
1100	258163.7	4084330	1.28E-05	1.86E-04	1.37E-04	1.37E-04	7.63E-05	1.95E-06	2.83E-05	2.14E-05	2.14E-05	1.18E-05	1.06E-06	1.53E-05	9.51E-06	9.51E-06	4.71E-06
1101	258139.4	4084331	1.22E-05	1.76E-04	1.30E-04	1.30E-04	7.24E-05	1.85E-06	2.68E-05	2.03E-05	2.03E-05	1.11E-05	1.00E-06	1.45E-05	9.02E-06	9.02E-06	4.46E-06
1102	258115.1	4084332	1.15E-05	1.67E-04	1.23E-04	1.23E-04	6.85E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.51E-07	1.37E-05	8.54E-06	8.54E-06	4.23E-06
1103	258090.7	4084333	1.09E-05	1.58E-04	1.16E-04	1.16E-04	6.48E-05	1.66E-06	2.40E-05	1.82E-05	1.82E-05	9.98E-06	8.99E-07	1.30E-05	8.08E-06	8.08E-06	4.00E-06
1104	258066.4	4084334	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.13E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.44E-06	8.50E-07	1.23E-05	7.64E-06	7.64E-06	3.78E-06
1105	258042.1	4084335	9.75E-06	1.41E-04	1.04E-04	1.04E-04	5.79E-05	1.48E-06	2.15E-05	1.62E-05	1.62E-05	8.92E-06	8.03E-07	1.16E-05	7.22E-06	7.22E-06	3.57E-06
1106	258017.7	4084336	9.21E-06	1.33E-04	9.82E-05	9.82E-05	5.48E-05	1.40E-06	2.03E-05	1.53E-05	1.53E-05	8.43E-06	7.60E-07	1.10E-05	6.82E-06	6.82E-06	3.38E-06
1107	257993.4	4084337	8.71E-06	1.26E-04	9.29E-05	9.29E-05	5.18E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.97E-06	7.18E-07	1.04E-05	6.45E-06	6.45E-06	3.19E-06
1108	257969.1	4084338	8.25E-06	1.19E-04	8.79E-05	8.79E-05	4.90E-05	1.25E-06	1.82E-05	1.37E-05	1.37E-05	7.55E-06	6.80E-07	9.83E-06	6.11E-06	6.11E-06	3.02E-06
1109	257944.7	4084339	7.81E-06	1.13E-04	8.33E-05	8.33E-05	4.64E-05	1.19E-06	1.72E-05	1.30E-05	1.30E-05	7.15E-06	6.44E-07	9.31E-06	5.78E-06	5.78E-06	2.86E-06
1110	257920.4	4084340	7.41E-06	1.07E-04	7.89E-05	7.89E-05	4.40E-05	1.12E-06	1.63E-05	1.23E-05	1.23E-05	6.78E-06	6.10E-07	8.83E-06	5.48E-06	5.48E-06	2.71E-06
1111	257896.1	4084341	7.03E-06	1.02E-04	7.49E-05	7.49E-05	4.18E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.43E-06	5.79E-07	8.38E-06	5.20E-06	5.20E-06	2.58E-06
1112	257871.7	4084342	6.68E-06	9.66E-05	7.12E-05	7.12E-05	3.97E-05	1.01E-06	1.47E-05	1.11E-05	1.11E-05	6.11E-06	5.50E-07	7.96E-06	4.95E-06	4.95E-06	2.45E-06
1113	257847.4	4084343	6.35E-06	9.18E-05	6.77E-05	6.77E-05	3.77E-05	9.64E-07	1.40E-05	1.06E-05	1.06E-05	5.81E-06	5.23E-07	7.57E-06	4.70E-06	4.70E-06	2.33E-06
1114	257823.1	4084344	6.05E-06	8.75E-05	6.45E-05	6.45E-05	3.59E-05	9.18E-07	1.33E-05	1.01E-05	1.01E-05	5.53E-06	4.98E-07	7.21E-06	4.48E-06	4.48E-06	2.22E-06
1115	257798.7	4084345	5.77E-06	8.34E-05	6.15E-05	6.15E-05	3.43E-05	8.75E-07	1.27E-05	9.60E-06	9.60E-06	5.28E-06	4.75E-07	6.87E-06	4.27E-06	4.27E-06	2.11E-06
1116	257774.4	4084346	5.50E-06	7.96E-05	5.87E-05	5.87E-05	3.27E-05	8.35E-07	1.21E-05	9.16E-06	9.16E-06	5.04E-06	4.54E-07	6.56E-06	4.08E-06	4.08E-06	2.02E-06
1117	257750.1	4084347	5.26E-06	7.61E-05	5.61E-05	5.61E-05	3.13E-05	7.99E-07	1.16E-05	8.76E-06	8.76E-06	4.82E-06	4.34E-07	6.28E-06	3.90E-06	3.90E-06	1.93E-06
1118	257725.7	4084348	5.04E-06	7.29E-05	5.38E-05	5.38E-05	3.00E-05	7.65E-07	1.11E-05	8.39E-06	8.39E-06	4.61E-06	4.16E-07	6.01E-06	3.73E-06	3.73E-06	1.85E-06
1119	257701.4	4084349	4.84E-06	7.00E-05	5.16E-05	5.16E-05	2.88E-05	7.35E-07	1.07E-05	8.06E-06	8.06E-06	4.43E-06	3.99E-07	5.77E-06	3.59E-06	3.59E-06	1.77E-06
1120	257677.1	4084350	4.66E-06	6.74E-05	4.97E-05	4.97E-05	2.77E-05	7.07E-07	1.03E-05	7.75E-06	7.75E-06	4.26E-06	3.84E-07	5.55E-06	3.45E-06	3.45E-06	1.71E-06
1121	257652.7	4084351	4.49E-06	6.49E-05	4.78E-05	4.78E-05	2.67E-05	6.81E-07	9.89E-06	7.47E-06	7.47E-06	4.11E-06	3.70E-07	5.35E-06	3.32E-06	3.32E-06	1.64E-06
1122	257628.4	4084352	4.33E-06	6.27E-05	4.62E-05	4.62E-05	2.58E-05	6.58E-07	9.55E-06	7.21E-06	7.21E-06	3.97E-06	3.57E-07	5.17E-06	3.21E-06	3.21E-06	1.59E-06
1123	257604.1	4084353	4.19E-06	6.06E-05	4.47E-05	4.47E-05	2.49E-05	6.36E-07	9.24E-06	6.98E-06	6.98E-06	3.84E-06	3.46E-07	5.00E-06	3.10E-06	3.10E-06	1.54E-06
1124	257579.8	4084354	4.06E-06	5.87E-05	4.33E-05	4.33E-05	2.41E-05	6.16E-07	8.95E-06	6.76E-06	6.76E-06	3.72E-06	3.35E-07	4.84E-06	3.01E-06	3.01E-06	1.49E-06
1125	257555.4	4084355	3.94E-06	5.70E-05	4.20E-05	4.20E-05	2.34E-05	5.98E-07	8.68E-06	6.56E-06	6.56E-06	3.60E-06	3.25E-07	4.70E-06	2.92E-06	2.92E-06	1.44E-06
1126	257531.1	4084356	3.83E-06	5.53E-05	4.08E-05	4.08E-05	2.27E-05	5.81E-07	8.43E-06	6.37E-06	6.37E-06	3.50E-06	3.15E-07	4.56E-06	2.83E-06	2.83E-06	1.40E-06
1127	258351.9	4084231	1.27E-05	1.84E-04	1.36E-04	1.36E-04	7.57E-05	1.93E-06	2.81E-05	2.12E-05	2.12E-05	1.17E-05	1.05E-06	1.52E-05	9.43E-06	9.43E-06	4.67E-06
1128	258373.9	4084239	1.36E-05	1.97E-04	1.45E-04	1.45E-04	8.09E-05	2.07E-06	3.00E-05	2.27E-05	2.27E-05	1.25E-05	1.12E-06	1.62E-05	1.01E-05	1.01E-05	4.99E-06
1129	258395.9	4084247	1.45E-05	2.10E-04	1.55E-04	1.55E-04	8.64E-05	2.21E-06	3.20E-05	2.42E-05	2.42E-05	1.33E-05	1.20E-06	1.73E-05	1.08E-05	1.08E-05	5.33E-06

1130	258417.9	4084255	1.55E-05	2.24E-04	1.65E-04	1.65E-04	9.20E-05	2.35E-06	3.41E-05	2.58E-05	2.58E-05	1.42E-05	1.28E-06	1.85E-05	1.15E-05	1.15E-05	5.67E-06
1131	258439.9	4084263	1.65E-05	2.38E-04	1.75E-04	1.75E-04	9.78E-05	2.50E-06	3.63E-05	2.74E-05	2.74E-05	1.51E-05	1.36E-06	1.96E-05	1.22E-05	1.22E-05	6.03E-06
1132	258461.9	4084272	1.74E-05	2.52E-04	1.86E-04	1.86E-04	1.04E-04	2.65E-06	3.84E-05	2.90E-05	2.90E-05	1.60E-05	1.44E-06	2.08E-05	1.29E-05	1.29E-05	6.40E-06
1133	258483.9	4084280	1.84E-05	2.67E-04	1.97E-04	1.97E-04	1.10E-04	2.80E-06	4.06E-05	3.07E-05	3.07E-05	1.69E-05	1.52E-06	2.20E-05	1.37E-05	1.37E-05	6.76E-06
1134	258505.9	4084288	1.95E-05	2.81E-04	2.07E-04	2.07E-04	1.16E-04	2.95E-06	4.29E-05	3.24E-05	3.24E-05	1.78E-05	1.60E-06	2.32E-05	1.44E-05	1.44E-05	7.13E-06
1135	258527.9	4084296	2.05E-05	2.96E-04	2.18E-04	2.18E-04	1.22E-04	3.10E-06	4.51E-05	3.41E-05	3.41E-05	1.87E-05	1.69E-06	2.44E-05	1.52E-05	1.52E-05	7.50E-06
1136	258549.9	4084304	2.15E-05	3.10E-04	2.29E-04	2.29E-04	1.28E-04	3.26E-06	4.73E-05	3.57E-05	3.57E-05	1.96E-05	1.77E-06	2.56E-05	1.59E-05	1.59E-05	7.87E-06
1137	258571.9	4084312	2.24E-05	3.24E-04	2.39E-04	2.39E-04	1.33E-04	3.40E-06	4.94E-05	3.73E-05	3.73E-05	2.05E-05	1.85E-06	2.67E-05	1.66E-05	1.66E-05	8.22E-06
1138	258594	4084320	2.34E-05	3.38E-04	2.49E-04	2.49E-04	1.39E-04	3.55E-06	5.15E-05	3.89E-05	3.89E-05	2.14E-05	1.93E-06	2.79E-05	1.73E-05	1.73E-05	8.57E-06
1139	258616	4084329	2.43E-05	3.52E-04	2.59E-04	2.59E-04	1.44E-04	3.69E-06	5.36E-05	4.05E-05	4.05E-05	2.22E-05	2.00E-06	2.90E-05	1.80E-05	1.80E-05	8.91E-06
1140	258638	4084337	2.52E-05	3.64E-04	2.69E-04	2.69E-04	1.50E-04	3.82E-06	5.55E-05	4.19E-05	4.19E-05	2.30E-05	2.08E-06	3.00E-05	1.87E-05	1.87E-05	9.23E-06
1141	258660	4084345	2.60E-05	3.76E-04	2.77E-04	2.77E-04	1.55E-04	3.95E-06	5.73E-05	4.33E-05	4.33E-05	2.38E-05	2.14E-06	3.10E-05	1.93E-05	1.93E-05	9.54E-06
1142	258682	4084353	2.68E-05	3.87E-04	2.86E-04	2.86E-04	1.59E-04	4.06E-06	5.90E-05	4.46E-05	4.46E-05	2.45E-05	2.21E-06	3.19E-05	1.98E-05	1.98E-05	9.82E-06
1143	258704	4084361	2.75E-05	3.97E-04	2.93E-04	2.93E-04	1.63E-04	4.17E-06	6.05E-05	4.57E-05	4.57E-05	2.51E-05	2.26E-06	3.28E-05	2.03E-05	2.03E-05	1.01E-05
1144	258726	4084369	2.81E-05	4.06E-04	2.99E-04	2.99E-04	1.67E-04	4.26E-06	6.19E-05	4.67E-05	4.67E-05	2.57E-05	2.31E-06	3.35E-05	2.08E-05	2.08E-05	1.03E-05
1145	258748	4084377	2.86E-05	4.14E-04	3.05E-04	3.05E-04	1.70E-04	4.34E-06	6.30E-05	4.76E-05	4.76E-05	2.62E-05	2.36E-06	3.41E-05	2.12E-05	2.12E-05	1.05E-05
1146	258770	4084386	2.90E-05	4.19E-04	3.09E-04	3.09E-04	1.72E-04	4.40E-06	6.39E-05	4.82E-05	4.82E-05	2.65E-05	2.39E-06	3.46E-05	2.15E-05	2.15E-05	1.06E-05
1147	258792	4084394	2.93E-05	4.23E-04	3.12E-04	3.12E-04	1.74E-04	4.44E-06	6.45E-05	4.87E-05	4.87E-05	2.68E-05	2.41E-06	3.49E-05	2.17E-05	2.17E-05	1.07E-05
1148	258814	4084402	2.93E-05	4.24E-04	3.13E-04	3.13E-04	1.74E-04	4.45E-06	6.46E-05	4.88E-05	4.88E-05	2.68E-05	2.42E-06	3.50E-05	2.17E-05	2.17E-05	1.08E-05
1149	258845.6	4084431	3.03E-05	4.38E-04	3.23E-04	3.23E-04	1.80E-04	4.60E-06	6.67E-05	5.04E-05	5.04E-05	2.77E-05	2.50E-06	3.61E-05	2.24E-05	2.24E-05	1.11E-05
1150	258855.3	4084453	3.11E-05	4.50E-04	3.32E-04	3.32E-04	1.85E-04	4.72E-06	6.86E-05	5.18E-05	5.18E-05	2.85E-05	2.56E-06	3.71E-05	2.30E-05	2.30E-05	1.14E-05
1151	258865	4084474	3.18E-05	4.60E-04	3.39E-04	3.39E-04	1.89E-04	4.82E-06	7.00E-05	5.29E-05	5.29E-05	2.91E-05	2.62E-06	3.79E-05	2.35E-05	2.35E-05	1.17E-05
1152	258874.6	4084496	3.23E-05	4.67E-04	3.44E-04	3.44E-04	1.92E-04	4.90E-06	7.12E-05	5.38E-05	5.38E-05	2.96E-05	2.66E-06	3.85E-05	2.39E-05	2.39E-05	1.18E-05
1153	258884.3	4084517	3.26E-05	4.72E-04	3.48E-04	3.48E-04	1.94E-04	4.95E-06	7.19E-05	5.43E-05	5.43E-05	2.99E-05	2.69E-06	3.89E-05	2.42E-05	2.42E-05	1.20E-05
1154	258894	4084538	3.28E-05	4.74E-04	3.50E-04	3.50E-04	1.95E-04	4.98E-06	7.23E-05	5.46E-05	5.46E-05	3.00E-05	2.70E-06	3.91E-05	2.43E-05	2.43E-05	1.20E-05
1155	258903.7	4084560	3.27E-05	4.74E-04	3.49E-04	3.49E-04	1.95E-04	4.97E-06	7.22E-05	5.45E-05	5.45E-05	3.00E-05	2.70E-06	3.90E-05	2.43E-05	2.43E-05	1.20E-05
1156	258913.3	4084581	3.25E-05	4.70E-04	3.47E-04	3.47E-04	1.93E-04	4.93E-06	7.16E-05	5.41E-05	5.41E-05	2.97E-05	2.68E-06	3.88E-05	2.41E-05	2.41E-05	1.19E-05
1157	258923	4084602	3.21E-05	4.64E-04	3.42E-04	3.42E-04	1.91E-04	4.87E-06	7.07E-05	5.34E-05	5.34E-05	2.93E-05	2.64E-06	3.82E-05	2.37E-05	2.37E-05	1.18E-05
1158	258932.7	4084624	3.14E-05	4.55E-04	3.35E-04	3.35E-04	1.87E-04	4.77E-06	6.93E-05	5.23E-05	5.23E-05	2.88E-05	2.59E-06	3.75E-05	2.33E-05	2.33E-05	1.15E-05
1159	258942.3	4084645	3.06E-05	4.43E-04	3.27E-04	3.27E-04	1.82E-04	4.65E-06	6.75E-05	5.10E-05	5.10E-05	2.80E-05	2.53E-06	3.65E-05	2.27E-05	2.27E-05	1.12E-05
1160	258952	4084667	2.97E-05	4.29E-04	3.16E-04	3.16E-04	1.76E-04	4.50E-06	6.54E-05	4.94E-05	4.94E-05	2.72E-05	2.45E-06	3.54E-05	2.20E-05	2.20E-05	1.09E-05
1161	258961.7	4084688	2.86E-05	4.13E-04	3.05E-04	3.05E-04	1.70E-04	4.34E-06	6.30E-05	4.76E-05	4.76E-05	2.62E-05	2.36E-06	3.41E-05	2.12E-05	2.12E-05	1.05E-05
1162	258971.4	4084709	2.74E-05	3.96E-04	2.92E-04	2.92E-04	1.63E-04	4.16E-06	6.04E-05	4.56E-05	4.56E-05	2.51E-05	2.26E-06	3.27E-05	2.03E-05	2.03E-05	1.00E-05
1163	258981	4084731	2.61E-05	3.78E-04	2.78E-04	2.78E-04	1.55E-04	3.96E-06	5.75E-05	4.35E-05	4.35E-05	2.39E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.57E-06
1164	258990.7	4084752	2.48E-05	3.59E-04	2.64E-04	2.64E-04	1.47E-04	3.76E-06	5.46E-05	4.13E-05	4.13E-05	2.27E-05	2.04E-06	2.96E-05	1.84E-05	1.84E-05	9.09E-06
1165	259000.4	4084773	2.35E-05	3.39E-04	2.50E-04	2.50E-04	1.39E-04	3.56E-06	5.17E-05	3.90E-05	3.90E-05	2.15E-05	1.93E-06	2.80E-05	1.74E-05	1.74E-05	8.60E-06
1166	259010	4084795	2.21E-05	3.20E-04	2.36E-04	2.36E-04	1.32E-04	3.36E-06	4.88E-05	3.68E-05	3.68E-05	2.02E-05	1.82E-06	2.64E-05	1.64E-05	1.64E-05	8.11E-06
1167	259019.7	4084816	2.08E-05	3.01E-04	2.22E-04	2.22E-04	1.24E-04	3.16E-06	4.59E-05	3.47E-05	3.47E-05	1.91E-05	1.72E-06	2.48E-05	1.54E-05	1.54E-05	7.64E-06
1168	259029.4	4084838	1.96E-05	2.83E-04	2.09E-04	2.09E-04	1.16E-04	2.97E-06	4.32E-05	3.26E-05	3.26E-05	1.79E-05	1.62E-06	2.34E-05	1.45E-05	1.45E-05	7.18E-06
1169	259039	4084859	1.84E-05	2.66E-04	1.96E-04	1.96E-04	1.09E-04	2.79E-06	4.06E-05	3.06E-05	3.06E-05	1.68E-05	1.52E-06	2.19E-05	1.36E-05	1.36E-05	6.75E-06
1170	259048.7	4084880	1.73E-05	2.50E-04	1.84E-04	1.84E-04	1.03E-04	2.62E-06	3.81E-05	2.88E-05	2.88E-05	1.58E-05	1.42E-06	2.06E-05	1.28E-05	1.28E-05	6.33E-06
1171	258329.9	4084223	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.06E-05	1.80E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.80E-07	1.42E-05	8.80E-06	8.80E-06	4.36E-06
1172	258305.6	4084224	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.78E-05	1.73E-06	2.51E-05	1.90E-05	1.90E-05	1.04E-05	9.40E-07	1.36E-05	8.45E-06	8.45E-06	4.18E-06
1173	258281.3	4084225	1.09E-05	1.58E-04	1.17E-04	1.17E-04	6.50E-05	1.66E-06	2.41E-05	1.82E-05	1.82E-05	1.00E-05	9.01E-07	1.30E-05	8.10E-06	8.10E-06	4.01E-06
1174	258256.9	4084226	1.05E-05	1.51E-04	1.12E-04	1.12E-04	6.22E-05	1.59E-06	2.31E-05	1.74E-05	1.74E-05	9.57E-06	8.62E-07	1.25E-05	7.75E-06	7.75E-06	3.84E-06
1175	258232.6	4084227	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.94E-05	1.52E-06	2.20E-05	1.66E-05	1.66E-05	9.15E-06	8.24E-07	1.19E-05	7.40E-06	7.40E-06	3.66E-06
1176	258208.3	4084228	9.53E-06	1.38E-04	1.02E-04	1.02E-04	5.67E-05	1.45E-06	2.10E-05	1.59E-05	1.59E-05	8.72E-06	7.86E-07	1.14E-05	7.06E-06	7.06E-06	3.49E-06
1177	258183.9	4084229	9.08E-06	1.31E-04	9.68E-05	9.68E-05	5.40E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.31E-06	7.49E-07	1.08E-05	6.73E-06	6.73E-06	3.33E-06
1178	258159.6	4084230	8.64E-06	1.25E-04	9.21E-05	9.21E-05	5.14E-05	1.31E-06	1.90E-05	1.44E-05	1.44E-05	7.91E-06	7.12E-07	1.03E-05	6.40E-06	6.40E-06	3.17E-06
1179	258135.3	4084231	8.21E-06	1.19E-04	8.76E-05	8.76E-05	4.88E-05	1.25E-06	1.81E-05	1.37E-05	1.37E-05	7.52E-06	6.77E-07	9.79E-06	6.08E-06	6.08E-06	3.01E-06
1180	258110.9	4084232	7.81E-06	1.13E-04	8.32E-05	8.32E-05	4.64E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.14E-06	6.44E-07	9.31E-06	5.78E-06	5.78E-06	2.86E-06
1181	258086.6	4084233	7.42E-06	1.07E-04	7.91E-05	7.91E-05	4.41E-05	1.13E-06	1.64E-05	1.24E-05	1.24E-05	6.79E-06	6.12E-07	8.85E-06	5.50E-06	5.50E-06	2.72E-06
1182	258062.3	4084234	7.06E-06	1.02E-04	7.52E-05	7.52E-05	4.19E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.46E-06	5.82E-07	8.41E-06	5.22E-06	5.22E-06	2.59E-06
1183	258037.9	4084235	6.71E-06	9.71E-05	7.15E-05	7.15E-05	3.99E-05	1.02E-06	1.48E-05	1.12E-05	1.12E-05	6.14E-06	5.53E-07	8.00E-06	4.97E-06	4.97E-06	2.46E-06
1184	258013.6	4084236	6.39E-06	9.24E-05	6.81E-05	6.81E-05	3.80E-05	9.69E-07	1.41E-05	1.06E-05	1.06E-05	5.84E-06	5.26E-07	7.61E-06	4.73E-06	4.73E-06	2.34E-06
1185	257989.3	4084237	6.09E-06	8.80E-05	6.49E-05	6.49E-05	3.62E-05	9.24E-07	1.34E-05	1.01E-05	1.01E-05	5.57E-06	5.02E-07	7.26E-06	4.51E-06	4.51E-06	2.23E-06
1186	257965	4084238	5.81E-06	8.40E-05	6.19E-05	6.19E-05	3.45E-05	8.81E-07	1.28E-05	9.66E-06	9.66E-06	5.31E-06	4.79E-07	6.92E-06	4.30E-06	4.30E-06	2.13E-06
1187	257940.6	4084239	5.54E-06	8.02E-05	5.91E-05	5.91E-05	3.29E-05	8.41E-07	1.22E-05	9.23E-06	9.23E-06	5.07E-06	4.57E-07	6.61E-06	4.10E-06	4.10E-06	2.03E-06
1188	257916.3	4084240	5.30E-06	7.66E-05	5.65E-05	5.65E-05	3.15E-05	8.04E-07	1.17E-05	8.82E-06	8.82E-06	4.85E-06	4.37E-07	6.32E-06	3.92E-06	3.92E-06	1.94E-06
1189	257892	4084241	5.07E-06	7.34E-05	5.41E-05	5.41E-05	3.02E-05	7.70E-07	1.12E-05	8.44E-06	8.44E-06	4.64E-06	4.18E-07	6.05E-06	3.76E-06	3.76E-06	1.86E-06
1190	257867.6	4084242	4.86E-06	7.04E-05	5.19E-05	5.19E-05	2.89E-05	7.38E-07	1.07E-05	8.10E-06	8.10E-06	4.45E-06	4.01E-07	5.80E-06	3.60E-06	3.60E-06	1.78E-06
1191	257843.3	4084243	4.67E-06	6.76E-05	4.98E-05	4.98E-05	2.78E-05	7.09E-07	1.03E-05	7.78E-06	7.78E-06	4.28E-06	3.85E-07	5.57E-06	3.46E-06	3.46E-06	1.71E-06
1192	257819	4084244	4.50E-06	6.50E-05	4.79E-05	4.79E-05	2.67E-05	6.82E-07	9.91E-06	7.48E-06	7.48E-06	4.11E-06	3.71E-07	5.36E-06	3.33E-06	3.33E-06	1.65E-06
1193	257794.6	4084245	4.33E-06	6.26E-05	4.62E-05	4.62E-05	2.57E-05	6.57E-07	9.54E-06	7.21E-06	7.21E-06	3.96E-06	3.57E-07	5.16E-06	3.21E-06	3.21E-06	1.59E-06
1194	257770.3	4084246	4.18E-06	6.04E-05	4.45E-05	4.45E-05	2.48E-05	6.34E-07	9.20E-06	6.95E-06	6.95E-06	3.82E-06	3.44E-07	4.98E-06	3.09E-06	3.09E-06	1.53E-06
1195	257746	4084247	4.03E-06	5.83E-05	4.30E-05	4.30E-05	2.40E-05	6.12E-07	8.89E-06	6.71E-06	6.71E-06	3.69E-06	3.32E-07	4.81E-06	2.99E-06	2.99E-06	1.48E-06
1196	257721.6	4084248	3.90E-06	5.64E-05	4.15E-05	4.15E-05	2.32E-05	5.92E-07	8.59E-06	6.49E-06	6.49E-06	3.57E-06	3.21E-07	4.65E-06	2.89E-06	2.89E-06	1.43E-06
1197	257697.3	4084249	3.77E-06	5.45E-05	4.02E-05	4.02E-05	2.24E-05	5.72E-07	8.31E-06	6.28E-06	6.28E-06	3.45E-06	3.11E-07	4.50E-06	2.79E-06	2.79E-06	1.38E-06
1198	257673	4084250	3.65E-06	5.28E-05	3.89E-05	3.89E-05	2.17E-05	5.54E-07	8.05E-06	6.08E-06	6.08E-06	3.34E-06	3.01E-07	4.36E-06	2.71E-06	2.71E-06	1.34E-06
1199	257648.6	4084251	3.54E-06	5.12E-05	3.77E-05	3.77E-05	2.10E-05	5.37E-07	7.80E-06	5.89E-06	5.89E-06	3.24E-06	2.92E-07	4.22E-06	2.62E-06	2.62E-06	1.30E-06
1200	257624.3	4084252	3.44E-06	4.97E-05	3.66E-05	3.66E-05	2.04E-05	5.22E-07	7.57E-06	5.72E-06	5.72E-06	3.14E-06	2.83E-07	4.10E-06	2.54E-06	2.54E-06	1.26E-06
1201	257600	4084253	3.34E-06	4.82E-05	3.56E-05	3.56E-05	1.98E-05	5.06E-07	7.35E-06	5.55E-06	5.55E-06	3.05E-06	2.75E-07	3.98E-06	2.47E-06	2.47E-06	1.22E-06
1202	257575.6	4084254	3.24E-06	4.69E-05	3.46E-05	3.46E-05	1.93E-05	4.92E-07	7.14E-06	5.40E-06	5.40E-06	2.97E-06	2.67E-07	3.86E-06	2.40E-06	2.40E-06	1.19E-06
1203	257551.3	4084255	3.15E-06	4.56E-05	3.36E-05	3.36E-05	1.87E-05	4.79E-07	6.95E-06	5.25E-06	5.25E-06	2.89E-06	2.60E-07	3.76E-06	2.34E-06	2.34E-06	1.16E-06
1204	257527	4084256	3.07E-06	4.44E-05	3.27E-05	3.27E-05	1.82E-05	4.66E-07	6.76E-06	5.11E-06	5.11E-06	2.81E-06	2.53E-07	3.66E-06	2.27E-06	2.27E-06	1.13E-06
1205	258344.2	4084031	6.51E-06	9.41E-05	6.94E-05	6.94E-05	3.87E-05	9.87E-07	1.43E-05	1.08E-05	1.08E-05	5.95E-06	5.36E-07	7.76E-06	4.82E-06	4.82E-06	2.38E-06
1206	258366.6	4084039	6.93E-06	1.00E-04	7.39E-05	7.39E-05	4.12E-05	1.05E-06	1.53E-05	1.15E-05	1.15E-05	6.34E-06	5.71E-07	8.26E-06	5.13E-06	5.13E-06	2.54E-06
1207	258389	4084048	7.38E-06	1.07E-04	7.87E-05	7.87E-05	4.39E-05	1.12E-06	1.63E-05	1.23E-05	1.23E-05	6.75E-06	6.08E-07	8.80E-06	5.47E-06	5.47E-06	2.71E-06
1208	258411.5	4084056	7.86E-06	1.14E-04	8.38E-05	8.38E-05	4.67E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.19E-06	6.48E-07	9.37E-06	5.82E-06	5.82E-06	2.88E-06
1209	258433.9	4084064	8.37E-06	1.21E-04	8.93E-05	8.93E-05	4.98E-05	1.27E-06	1.84E-05	1.39E-05	1.39E-05	7.66E-06	6.90E-07	9.98E-06	6.20E-06	6.20E-06	3.07E-06
1210	258456.3	4084073	8.91E-06	1.29E-04	9.50E-05	9.50E-05	5.30E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.15E-06	7.34E-07	1.06E-05	6.60E-06	6.60E-06	3.27E-06
1211	258478.8	4084081	9.47E-06	1.37E-04	1.01E-04	1.01E-04	5.63E-05	1.44E-06	2.09E-05	1.58E-05	1.58E-05	8.67E-06	7.81E-07	1.13E-05	7.01E-06	7.01E-06	3.47E-06
1212	258501.2	4084089	1.01E-05	1.45E-04	1.07E-04	1.07E-04	5.98E-05	1.53E-06	2.22E-05	1.67E-05	1.67E-05	9.20E-06	8.29E-07	1.20E-05	7.45E-06	7.45E-06	3.69E-06
1213	258523.6	4084098	1.07E-05	1.54E-04	1.14E-04	1.14E-04	6.34E-05	1.62E-06	2.35E-05	1.77E-05	1.77E-05	9.75E-06	8.79E-07	1.27E-05	7.89E-06	7.89E-06	3.91E-06
1214	258546.1	4084106	1.13E-05	1.63E-04	1.20E-04	1.20E-04	6.70E-05	1.71E-06	2.49E-05	1.88E-05	1.88E-05	1.03E-05	9.30E-07	1.34E-05	8.35E-06	8.35E-06	4.13E-06
1215	258568.5	4084114	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.08E-05	1.81E-06	2.63E-05	1.98E-05	1.98E-05	1.09E-05	9.82E-07	1.42E-05	8.82E-06	8.82E-06	4.37E-06
1216	258590.9	4084123	1.26E-05	1.82E-04	1.34E-04	1.34E-04	7.46E-05	1.91E-06	2.77E-05	2.09E-05	2.09E-05	1.15E-05	1.04E-06	1.50E-05	9.30E-06	9.30E-06	4.60E-06
1217	258613.4	4084131	1.32E-05	1.91E-04	1.41E-04	1.41E-04	7.85E-05	2.00E-06	2.91E-05	2.20E-05	2.20E-05	1.21E-05	1.09E-06	1.57E-05	9.78E-06	9.78E-06	4.84E-06
1218	258635.8	4084139	1.39E-05	2.00E-04	1.48E-04	1.48E-04	8.23E-05	2.10E-06	3.05E-05	2.31E-05	2.31E-05	1.27E-05	1.14E-06	1.65E-05	1.03E-05	1.03E-05	5.08E-06
1219	258658.2	4084147	1.45E-05	2.10E-04	1.55E-04	1.55E-04	8.62E-05	2.20E-06	3.19E-05	2.41E-05	2.41E-05	1.33E-05	1.20E-06	1.73E-05	1.07E-05	1.07E-05	5.32E-06
1220	258680.7	4084156	1.51E-05	2.19E-04	1.61E-04	1.61E-04	9.00E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.80E-05	1.12E-05	1.12E-05	5.55E-06
1221	258703.1	4084164	1.58E-05	2.28E-04	1.68E-04	1.68E-04	9.37E-05	2.39E-06	3.47E-05	2.62E-05	2.62E-05	1.44E-05	1.30E-06	1.88E-05	1.17E-05	1.17E-05	5.78E-06
1222	258725.5	4084172	1.64E-05	2.37E-04	1.75E-04	1.75E-04	9.73E-05	2.48E-06	3.61E-05	2.72E-05	2.72E-05	1.50E-05	1.35E-06	1.95E-05	1.21E-05	1.21E-05	6.00E-06
1223	258748	4084181	1.70E-05	2.45E-04	1.81E-04	1.81E-04	1.01E-04	2.57E-06	3.74E-05	2.82E-05	2.82E-05	1.55E-05	1.40E-06	2.02E-05	1.26E-05	1.26E-05	6.22E-06
1224	258770.4	4084189	1.75E-05	2.53E-04	1.87E-04	1.87E-04	1.04E-04	2.66E-06	3.86E-05	2.92E-05	2.92E-05	1.60E-05	1.44E-06	2.09E-05	1.30E-05	1.30E-05	6.42E-06
1225	258792.9	4084197	1.80E-05	2.61E-04	1.92E-04	1.92E-04	1.07E-04	2.74E-06	3.98E-05	3.00E-05	3.00E-05	1.65E-05	1.49E-06	2.15E-05	1.34E-05	1.34E-05	6.62E-06
1226	258815.3	4084206	1.85E-05	2.68E-04	1.98E-04	1.98E-04	1.10E-04	2.81E-06	4.09E-05	3.09E-05	3.09E-05	1.70E-05	1.53E-06	2.21E-05	1.37E-05	1.37E-05	6.80E-06
1227	258837.7	4084214	1.90E-05	2.75E-04	2.02E-04	2.02E-04	1.13E-04	2.88E-06	4.19E-05	3.16E-05	3.16E-05	1.74E-05	1.57E-06	2.26E-05	1.41E-05	1.41E-05	6.96E-06
1228	258860.2	4084222	1.94E-05	2.80E-04	2.07E-04	2.07E-04	1.15E-04	2.94E-06	4.27E-05	3.23E-05	3.23E-05	1.77E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.11E-06
1229	258882.6	4084230	1.97E-05	2.85E-04	2.10E-04	2.10E-04	1.17E-04	2.99E-06	4.35E-05	3.28E-05	3.28E-05	1.80E-05	1.63E-06	2.35E-05	1.46E-05	1.46E-05	7.23E-06
1230	258905	4084239	2.00E-05	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.04E-06	4.41E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.39E-05	1.48E-05	1.48E-05	7.34E-06
1231	258927.5	4084247	2.02E-05	2.93E-04	2.16E-04	2.16E-04	1.20E-04	3.07E-06	4.46E-05	3.37E-05	3.37E-05	1.85E-05	1.67E-06	2.41E-05	1.50E-05	1.50E-05	7.42E-06
1232	258949.9	4084255	2.04E-05	2.95E-04	2.17E-04	2.17E-04	1.21E-04	3.09E-06	4.49E-05	3.39E-05	3.39E-05	1.86E-05	1.68E-06	2.43E-05	1.51E-05	1.51E-05	7.47E-06

1233	258982.2	4084286	2.11E-05	3.05E-04	2.25E-04	2.25E-04	1.25E-04	3.20E-06	4.64E-05	3.51E-05	3.51E-05	1.93E-05	1.74E-06	2.51E-05	1.56E-05	1.56E-05	7.72E-06
1234	258992.1	4084307	2.16E-05	3.13E-04	2.31E-04	2.31E-04	1.29E-04	3.28E-06	4.76E-05	3.60E-05	3.60E-05	1.98E-05	1.78E-06	2.58E-05	1.60E-05	1.60E-05	7.93E-06
1235	259001.9	4084329	2.21E-05	3.19E-04	2.35E-04	2.35E-04	1.31E-04	3.35E-06	4.87E-05	3.68E-05	3.68E-05	2.02E-05	1.82E-06	2.63E-05	1.64E-05	1.64E-05	8.10E-06
1236	259011.8	4084351	2.25E-05	3.25E-04	2.40E-04	2.40E-04	1.34E-04	3.41E-06	4.95E-05	3.74E-05	3.74E-05	2.06E-05	1.85E-06	2.68E-05	1.66E-05	1.66E-05	8.24E-06
1237	259021.6	4084373	2.28E-05	3.29E-04	2.43E-04	2.43E-04	1.35E-04	3.46E-06	5.02E-05	3.79E-05	3.79E-05	2.08E-05	1.88E-06	2.72E-05	1.69E-05	1.69E-05	8.35E-06
1238	259031.5	4084394	2.30E-05	3.32E-04	2.45E-04	2.45E-04	1.37E-04	3.49E-06	5.06E-05	3.83E-05	3.83E-05	2.10E-05	1.89E-06	2.74E-05	1.70E-05	1.70E-05	8.42E-06
1239	259041.4	4084416	2.31E-05	3.34E-04	2.46E-04	2.46E-04	1.37E-04	3.50E-06	5.09E-05	3.84E-05	3.84E-05	2.11E-05	1.90E-06	2.75E-05	1.71E-05	1.71E-05	8.46E-06
1240	259051.2	4084438	2.31E-05	3.34E-04	2.46E-04	2.46E-04	1.37E-04	3.50E-06	5.09E-05	3.84E-05	3.84E-05	2.11E-05	1.90E-06	2.75E-05	1.71E-05	1.71E-05	8.46E-06
1241	259061.1	4084460	2.30E-05	3.32E-04	2.45E-04	2.45E-04	1.37E-04	3.49E-06	5.06E-05	3.82E-05	3.82E-05	2.10E-05	1.89E-06	2.74E-05	1.70E-05	1.70E-05	8.42E-06
1242	259070.9	4084482	2.28E-05	3.29E-04	2.43E-04	2.43E-04	1.35E-04	3.46E-06	5.02E-05	3.79E-05	3.79E-05	2.08E-05	1.88E-06	2.72E-05	1.69E-05	1.69E-05	8.35E-06
1243	259080.8	4084503	2.25E-05	3.25E-04	2.40E-04	2.40E-04	1.34E-04	3.41E-06	4.95E-05	3.74E-05	3.74E-05	2.06E-05	1.85E-06	2.68E-05	1.66E-05	1.66E-05	8.24E-06
1244	259090.7	4084525	2.21E-05	3.19E-04	2.35E-04	2.35E-04	1.31E-04	3.35E-06	4.87E-05	3.68E-05	3.68E-05	2.02E-05	1.82E-06	2.63E-05	1.64E-05	1.64E-05	8.10E-06
1245	259100.5	4084547	2.16E-05	3.13E-04	2.31E-04	2.31E-04	1.29E-04	3.28E-06	4.76E-05	3.60E-05	3.60E-05	1.98E-05	1.78E-06	2.58E-05	1.60E-05	1.60E-05	7.93E-06
1246	259110.4	4084569	2.11E-05	3.05E-04	2.25E-04	2.25E-04	1.25E-04	3.20E-06	4.65E-05	3.51E-05	3.51E-05	1.93E-05	1.74E-06	2.51E-05	1.56E-05	1.56E-05	7.73E-06
1247	259120.2	4084591	2.05E-05	2.96E-04	2.18E-04	2.18E-04	1.22E-04	3.11E-06	4.51E-05	3.41E-05	3.41E-05	1.87E-05	1.69E-06	2.44E-05	1.52E-05	1.52E-05	7.51E-06
1248	259130.1	4084612	1.98E-05	2.87E-04	2.11E-04	2.11E-04	1.18E-04	3.01E-06	4.37E-05	3.30E-05	3.30E-05	1.81E-05	1.63E-06	2.36E-05	1.47E-05	1.47E-05	7.27E-06
1249	259140	4084634	1.91E-05	2.77E-04	2.04E-04	2.04E-04	1.14E-04	2.90E-06	4.22E-05	3.19E-05	3.19E-05	1.75E-05	1.58E-06	2.28E-05	1.42E-05	1.42E-05	7.01E-06
1250	259149.8	4084656	1.84E-05	2.66E-04	1.96E-04	1.96E-04	1.09E-04	2.79E-06	4.06E-05	3.06E-05	3.06E-05	1.68E-05	1.52E-06	2.20E-05	1.36E-05	1.36E-05	6.75E-06
1251	259159.7	4084678	1.77E-05	2.56E-04	1.89E-04	1.89E-04	1.05E-04	2.69E-06	3.90E-05	2.95E-05	2.95E-05	1.62E-05	1.46E-06	2.11E-05	1.31E-05	1.31E-05	6.49E-06
1252	259169.6	4084700	1.69E-05	2.45E-04	1.81E-04	1.81E-04	1.01E-04	2.57E-06	3.73E-05	2.82E-05	2.82E-05	1.55E-05	1.40E-06	2.02E-05	1.25E-05	1.25E-05	6.21E-06
1253	259179.4	4084721	1.61E-05	2.33E-04	1.72E-04	1.72E-04	9.59E-05	2.45E-06	3.55E-05	2.68E-05	2.68E-05	1.48E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.91E-06
1254	259189.3	4084743	1.54E-05	2.22E-04	1.64E-04	1.64E-04	9.13E-05	2.33E-06	3.38E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.83E-05	1.14E-05	1.14E-05	5.63E-06
1255	259199.1	4084765	1.46E-05	2.11E-04	1.56E-04	1.56E-04	8.69E-05	2.22E-06	3.22E-05	2.43E-05	2.43E-05	1.34E-05	1.20E-06	1.74E-05	1.08E-05	1.08E-05	5.36E-06
1256	259209	4084787	1.38E-05	2.00E-04	1.48E-04	1.48E-04	8.23E-05	2.10E-06	3.05E-05	2.30E-05	2.30E-05	1.27E-05	1.14E-06	1.65E-05	1.03E-05	1.03E-05	5.08E-06
1257	259218.9	4084809	1.31E-05	1.90E-04	1.40E-04	1.40E-04	7.81E-05	2.00E-06	2.90E-05	2.19E-05	2.19E-05	1.20E-05	1.08E-06	1.57E-05	9.73E-06	9.73E-06	4.82E-06
1258	259228.7	4084830	1.25E-05	1.81E-04	1.33E-04	1.33E-04	7.42E-05	1.90E-06	2.75E-05	2.08E-05	2.08E-05	1.14E-05	1.03E-06	1.49E-05	9.25E-06	9.25E-06	4.58E-06
1259	259238.6	4084852	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.06E-05	1.80E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.79E-07	1.42E-05	8.79E-06	8.79E-06	4.35E-06
1260	259248.4	4084874	1.13E-05	1.63E-04	1.20E-04	1.20E-04	6.71E-05	1.71E-06	2.49E-05	1.88E-05	1.88E-05	1.03E-05	9.31E-07	1.35E-05	8.36E-06	8.36E-06	4.14E-06
1261	258321.7	4084023	6.11E-06	8.84E-05	6.52E-05	6.52E-05	3.63E-05	9.28E-07	1.35E-05	1.02E-05	1.02E-05	5.59E-06	5.04E-07	7.29E-06	4.53E-06	4.53E-06	2.24E-06
1262	258297.4	4084024	5.88E-06	8.50E-05	6.27E-05	6.27E-05	3.49E-05	8.92E-07	1.30E-05	9.79E-06	9.79E-06	5.38E-06	4.85E-07	7.01E-06	4.35E-06	4.35E-06	2.16E-06
1263	258273.1	4084025	5.66E-06	8.18E-05	6.03E-05	6.03E-05	3.36E-05	8.59E-07	1.25E-05	9.42E-06	9.42E-06	5.18E-06	4.66E-07	6.75E-06	4.19E-06	4.19E-06	2.07E-06
1264	258248.7	4084026	5.44E-06	7.87E-05	5.80E-05	5.80E-05	3.23E-05	8.26E-07	1.20E-05	9.06E-06	9.06E-06	4.98E-06	4.49E-07	6.49E-06	4.03E-06	4.03E-06	2.00E-06
1265	258224.4	4084027	5.24E-06	7.57E-05	5.58E-05	5.58E-05	3.11E-05	7.95E-07	1.15E-05	8.71E-06	8.71E-06	4.79E-06	4.32E-07	6.24E-06	3.88E-06	3.88E-06	1.92E-06
1266	258200.1	4084028	5.03E-06	7.28E-05	5.37E-05	5.37E-05	2.99E-05	7.64E-07	1.11E-05	8.38E-06	8.38E-06	4.61E-06	4.15E-07	6.00E-06	3.73E-06	3.73E-06	1.85E-06
1267	258175.7	4084029	4.84E-06	7.00E-05	5.16E-05	5.16E-05	2.88E-05	7.35E-07	1.07E-05	8.06E-06	8.06E-06	4.43E-06	3.99E-07	5.77E-06	3.59E-06	3.59E-06	1.77E-06
1268	258151.4	4084030	4.65E-06	6.73E-05	4.96E-05	4.96E-05	2.77E-05	7.06E-07	1.03E-05	7.75E-06	7.75E-06	4.26E-06	3.84E-07	5.55E-06	3.45E-06	3.45E-06	1.71E-06
1269	258127.1	4084031	4.47E-06	6.47E-05	4.77E-05	4.77E-05	2.66E-05	6.79E-07	9.86E-06	7.45E-06	7.45E-06	4.09E-06	3.69E-07	5.33E-06	3.31E-06	3.31E-06	1.64E-06
1270	258102.7	4084032	4.30E-06	6.22E-05	4.58E-05	4.58E-05	2.56E-05	6.52E-07	9.47E-06	7.16E-06	7.16E-06	3.93E-06	3.54E-07	5.13E-06	3.18E-06	3.18E-06	1.58E-06
1271	258078.4	4084033	4.13E-06	5.97E-05	4.40E-05	4.40E-05	2.46E-05	6.27E-07	9.10E-06	6.88E-06	6.88E-06	3.78E-06	3.41E-07	4.93E-06	3.06E-06	3.06E-06	1.51E-06
1272	258054.1	4084034	3.97E-06	5.74E-05	4.23E-05	4.23E-05	2.36E-05	6.02E-07	8.75E-06	6.61E-06	6.61E-06	3.63E-06	3.27E-07	4.73E-06	2.94E-06	2.94E-06	1.45E-06
1273	258029.7	4084035	3.82E-06	5.52E-05	4.07E-05	4.07E-05	2.27E-05	5.79E-07	8.41E-06	6.35E-06	6.35E-06	3.49E-06	3.15E-07	4.55E-06	2.83E-06	2.83E-06	1.40E-06
1274	258005.4	4084036	3.67E-06	5.31E-05	3.91E-05	3.91E-05	2.18E-05	5.57E-07	8.09E-06	6.11E-06	6.11E-06	3.36E-06	3.03E-07	4.38E-06	2.72E-06	2.72E-06	1.35E-06
1275	257981.1	4084037	3.53E-06	5.11E-05	3.77E-05	3.77E-05	2.10E-05	5.36E-07	7.79E-06	5.88E-06	5.88E-06	3.23E-06	2.91E-07	4.21E-06	2.62E-06	2.62E-06	1.30E-06
1276	257956.7	4084038	3.41E-06	4.93E-05	3.63E-05	3.63E-05	2.02E-05	5.17E-07	7.50E-06	5.67E-06	5.67E-06	3.12E-06	2.81E-07	4.06E-06	2.52E-06	2.52E-06	1.25E-06
1277	257932.4	4084039	3.29E-06	4.75E-05	3.50E-05	3.50E-05	1.95E-05	4.99E-07	7.24E-06	5.47E-06	5.47E-06	3.01E-06	2.71E-07	3.92E-06	2.43E-06	2.43E-06	1.20E-06
1278	257908.1	4084040	3.18E-06	4.60E-05	3.39E-05	3.39E-05	1.89E-05	4.82E-07	7.00E-06	5.29E-06	5.29E-06	2.91E-06	2.62E-07	3.79E-06	2.35E-06	2.35E-06	1.16E-06
1279	257883.7	4084041	3.08E-06	4.45E-05	3.28E-05	3.28E-05	1.83E-05	4.67E-07	6.78E-06	5.12E-06	5.12E-06	2.82E-06	2.54E-07	3.67E-06	2.28E-06	2.28E-06	1.13E-06
1280	257859.4	4084042	2.99E-06	4.32E-05	3.18E-05	3.18E-05	1.77E-05	4.53E-07	6.58E-06	4.97E-06	4.97E-06	2.73E-06	2.46E-07	3.56E-06	2.21E-06	2.21E-06	1.09E-06
1281	257835.1	4084043	2.90E-06	4.20E-05	3.09E-05	3.09E-05	1.72E-05	4.40E-07	6.39E-06	4.83E-06	4.83E-06	2.66E-06	2.39E-07	3.46E-06	2.15E-06	2.15E-06	1.06E-06
1282	257810.7	4084044	2.82E-06	4.08E-05	3.01E-05	3.01E-05	1.68E-05	4.29E-07	6.22E-06	4.70E-06	4.70E-06	2.58E-06	2.33E-07	3.37E-06	2.09E-06	2.09E-06	1.04E-06
1283	257786.4	4084045	2.75E-06	3.98E-05	2.94E-05	2.94E-05	1.64E-05	4.18E-07	6.07E-06	4.58E-06	4.58E-06	2.52E-06	2.27E-07	3.28E-06	2.04E-06	2.04E-06	1.01E-06
1284	257762.1	4084046	2.69E-06	3.89E-05	2.87E-05	2.87E-05	1.60E-05	4.08E-07	5.93E-06	4.48E-06	4.48E-06	2.46E-06	2.22E-07	3.21E-06	1.99E-06	1.99E-06	9.86E-07
1285	257737.8	4084047	2.63E-06	3.81E-05	2.81E-05	2.81E-05	1.56E-05	4.00E-07	5.80E-06	4.38E-06	4.38E-06	2.41E-06	2.17E-07	3.14E-06	1.95E-06	1.95E-06	9.65E-07
1286	257713.4	4084048	2.58E-06	3.73E-05	2.75E-05	2.75E-05	1.53E-05	3.91E-07	5.68E-06	4.29E-06	4.29E-06	2.36E-06	2.12E-07	3.07E-06	1.91E-06	1.91E-06	9.45E-07
1287	257689.1	4084049	2.53E-06	3.66E-05	2.70E-05	2.70E-05	1.50E-05	3.84E-07	5.57E-06	4.21E-06	4.21E-06	2.31E-06	2.08E-07	3.01E-06	1.87E-06	1.87E-06	9.27E-07
1288	257664.8	4084050	2.48E-06	3.59E-05	2.64E-05	2.64E-05	1.47E-05	3.76E-07	5.46E-06	4.13E-06	4.13E-06	2.27E-06	2.04E-07	2.96E-06	1.84E-06	1.84E-06	9.09E-07
1289	257640.4	4084051	2.43E-06	3.52E-05	2.59E-05	2.59E-05	1.45E-05	3.69E-07	5.36E-06	4.05E-06	4.05E-06	2.23E-06	2.00E-07	2.90E-06	1.80E-06	1.80E-06	8.92E-07
1290	257616.1	4084052	2.39E-06	3.45E-05	2.54E-05	2.54E-05	1.42E-05	3.62E-07	5.26E-06	3.97E-06	3.97E-06	2.18E-06	1.97E-07	2.84E-06	1.77E-06	1.77E-06	8.74E-07
1291	257591.8	4084053	2.34E-06	3.38E-05	2.49E-05	2.49E-05	1.39E-05	3.55E-07	5.15E-06	3.89E-06	3.89E-06	2.14E-06	1.93E-07	2.79E-06	1.73E-06	1.73E-06	8.57E-07
1292	257567.4	4084054	2.29E-06	3.31E-05	2.44E-05	2.44E-05	1.36E-05	3.47E-07	5.04E-06	3.81E-06	3.81E-06	2.09E-06	1.89E-07	2.73E-06	1.70E-06	1.70E-06	8.39E-07
1293	257543.1	4084055	2.24E-06	3.24E-05	2.39E-05	2.39E-05	1.33E-05	3.40E-07	4.93E-06	3.73E-06	3.73E-06	2.05E-06	1.85E-07	2.67E-06	1.66E-06	1.66E-06	8.21E-07
1294	257518.8	4084056	2.19E-06	3.17E-05	2.34E-05	2.34E-05	1.30E-05	3.32E-07	4.83E-06	3.65E-06	3.65E-06	2.00E-06	1.81E-07	2.61E-06	1.62E-06	1.62E-06	8.03E-07
1295	258336.2	4083831	3.87E-06	5.59E-05	4.12E-05	4.12E-05	2.30E-05	5.87E-07	8.52E-06	6.44E-06	6.44E-06	3.54E-06	3.19E-07	4.61E-06	2.86E-06	2.86E-06	1.42E-06
1296	258358.9	4083840	4.07E-06	5.88E-05	4.34E-05	4.34E-05	2.42E-05	6.17E-07	8.96E-06	6.77E-06	6.77E-06	3.72E-06	3.35E-07	4.85E-06	3.01E-06	3.01E-06	1.49E-06
1297	258381.7	4083848	4.28E-06	6.20E-05	4.57E-05	4.57E-05	2.55E-05	6.50E-07	9.44E-06	7.13E-06	7.13E-06	3.92E-06	3.53E-07	5.11E-06	3.17E-06	3.17E-06	1.57E-06
1298	258404.4	4083857	4.52E-06	6.54E-05	4.82E-05	4.82E-05	2.69E-05	6.86E-07	9.96E-06	7.52E-06	7.52E-06	4.14E-06	3.73E-07	5.39E-06	3.35E-06	3.35E-06	1.66E-06
1299	258427.1	4083865	4.77E-06	6.91E-05	5.09E-05	5.09E-05	2.84E-05	7.25E-07	1.05E-05	7.95E-06	7.95E-06	4.37E-06	3.94E-07	5.69E-06	3.54E-06	3.54E-06	1.75E-06
1300	258449.8	4083873	5.05E-06	7.30E-05	5.38E-05	5.38E-05	3.00E-05	7.66E-07	1.11E-05	8.40E-06	8.40E-06	4.62E-06	4.16E-07	6.02E-06	3.74E-06	3.74E-06	1.85E-06
1301	258472.5	4083882	5.34E-06	7.73E-05	5.70E-05	5.70E-05	3.18E-05	8.11E-07	1.18E-05	8.90E-06	8.90E-06	4.89E-06	4.41E-07	6.37E-06	3.96E-06	3.96E-06	1.96E-06
1302	258495.3	4083890	5.66E-06	8.18E-05	6.03E-05	6.03E-05	3.36E-05	8.58E-07	1.25E-05	9.41E-06	9.41E-06	5.18E-06	4.66E-07	6.74E-06	4.19E-06	4.19E-06	2.07E-06
1303	258518	4083899	5.99E-06	8.66E-05	6.38E-05	6.38E-05	3.56E-05	9.08E-07	1.32E-05	9.96E-06	9.96E-06	5.48E-06	4.93E-07	7.14E-06	4.43E-06	4.43E-06	2.19E-06
1304	258540.7	4083907	6.33E-06	9.16E-05	6.75E-05	6.75E-05	3.76E-05	9.61E-07	1.40E-05	1.05E-05	1.05E-05	5.79E-06	5.22E-07	7.55E-06	4.69E-06	4.69E-06	2.32E-06
1305	258563.4	4083916	6.70E-06	9.69E-05	7.14E-05	7.14E-05	3.98E-05	1.02E-06	1.48E-05	1.11E-05	1.11E-05	6.13E-06	5.52E-07	7.98E-06	4.96E-06	4.96E-06	2.45E-06
1306	258586.1	4083924	7.08E-06	1.02E-04	7.54E-05	7.54E-05	4.21E-05	1.07E-06	1.56E-05	1.18E-05	1.18E-05	6.47E-06	5.83E-07	8.44E-06	5.24E-06	5.24E-06	2.59E-06
1307	258608.9	4083932	7.47E-06	1.08E-04	7.96E-05	7.96E-05	4.44E-05	1.13E-06	1.65E-05	1.24E-05	1.24E-05	6.83E-06	6.16E-07	8.90E-06	5.53E-06	5.53E-06	2.74E-06
1308	258631.6	4083941	7.88E-06	1.14E-04	8.40E-05	8.40E-05	4.68E-05	1.20E-06	1.74E-05	1.31E-05	1.31E-05	7.21E-06	6.49E-07	9.39E-06	5.83E-06	5.83E-06	2.89E-06
1309	258654.3	4083949	8.29E-06	1.20E-04	8.84E-05	8.84E-05	4.93E-05	1.26E-06	1.83E-05	1.38E-05	1.38E-05	7.59E-06	6.84E-07	9.89E-06	6.14E-06	6.14E-06	3.04E-06
1310	258677	4083958	8.72E-06	1.26E-04	9.30E-05	9.30E-05	5.18E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.98E-06	7.19E-07	1.04E-05	6.46E-06	6.46E-06	3.20E-06
1311	258699.7	4083966	9.16E-06	1.32E-04	9.76E-05	9.76E-05	5.44E-05	1.39E-06	2.02E-05	1.52E-05	1.52E-05	8.38E-06	7.55E-07	1.09E-05	6.78E-06	6.78E-06	3.36E-06
1312	258722.5	4083974	9.60E-06	1.39E-04	1.02E-04	1.02E-04	5.71E-05	1.46E-06	2.12E-05	1.60E-05	1.60E-05	8.78E-06	7.91E-07	1.14E-05	7.11E-06	7.11E-06	3.52E-06
1313	258745.2	4083983	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.97E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.19E-06	8.28E-07	1.20E-05	7.44E-06	7.44E-06	3.68E-06
1314	258767.9	4083991	1.05E-05	1.52E-04	1.12E-04	1.12E-04	6.23E-05	1.59E-06	2.31E-05	1.75E-05	1.75E-05	9.60E-06	8.64E-07	1.25E-05	7.77E-06	7.77E-06	3.84E-06
1315	258790.6	4084000	1.09E-05	1.58E-04	1.16E-04	1.16E-04	6.49E-05	1.66E-06	2.41E-05	1.82E-05	1.82E-05	1.00E-05	9.01E-07	1.30E-05	8.09E-06	8.09E-06	4.01E-06
1316	258813.3	4084008	1.14E-05	1.64E-04	1.21E-04	1.21E-04	6.75E-05	1.72E-06	2.50E-05	1.89E-05	1.89E-05	1.04E-05	9.37E-07	1.35E-05	8.41E-06	8.41E-06	4.17E-06
1317	258836.1	4084016	1.18E-05	1.71E-04	1.26E-04	1.26E-04	7.01E-05	1.79E-06	2.60E-05	1.96E-05	1.96E-05	1.08E-05	9.72E-07	1.41E-05	8.73E-06	8.73E-06	4.32E-06
1318	258858.8	4084025	1.22E-05	1.77E-04	1.30E-04	1.30E-04	7.26E-05	1.85E-06	2.69E-05	2.03E-05	2.03E-05	1.12E-05	1.01E-06	1.46E-05	9.04E-06	9.04E-06	4.47E-06
1319	258881.5	4084033	1.26E-05	1.82E-04	1.34E-04	1.34E-04	7.49E-05	1.91E-06	2.78E-05	2.10E-05	2.10E-05	1.15E-05	1.04E-06	1.50E-05	9.34E-06	9.34E-06	4.62E-06
1320	258904.2	4084042	1.30E-05	1.88E-04	1.39E-04	1.39E-04	7.72E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.62E-06	9.62E-06	4.76E-06
1321	258926.9	4084050	1.34E-05	1.93E-04	1.42E-04	1.42E-04	7.94E-05	2.03E-06	2.94E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.89E-06	9.89E-06	4.90E-06
1322	258949.7	4084059	1.37E-05	1.98E-04	1.46E-04	1.46E-04	8.12E-05	2.07E-06	3.01E-05	2.27E-05	2.27E-05	1.25E-05	1.13E-06	1.63E-05	1.01E-05	1.01E-05	5.01E-06
1323	258972.4	4084067	1.40E-05	2.02E-04	1.49E-04	1.49E-04	8.30E-05	2.12E-06	3.08E-05	2.33E-05	2.33E-05	1.28E-05	1.15E-06	1.67E-05	1.03E-05	1.03E-05	5.12E-06
1324	258995.1	4084075	1.42E-05	2.06E-04	1.52E-04	1.52E-04	8.47E-05	2.16E-06	3.14E-05	2.37E-05	2.37E-05	1.30E-05	1.17E-06	1.70E-05	1.06E-05	1.06E-05	5.22E-06
1325	259017.8	4084084	1.45E-05	2.10E-04	1.55E-04	1.55E-04	8.62E-05	2.20E-06	3.19E-05	2.41E-05	2.41E-05	1.33E-05	1.19E-06	1.73E-05	1.07E-05	1.07E-05	5.31E-06
1326	259040.5	4084092	1.47E-05	2.13E-04	1.57E-04	1.57E-04	8.74E-05	2.23E-06	3.24E-05	2.45E-05	2.45E-05	1.35E-05	1.21E-06	1.75E-05	1.09E-05	1.09E-05	5.39E-06
1327	259063.3	4084101	1.49E-05	2.15E-04	1.59E-04	1.59E-04	8.84E-05	2.26E-06	3.28E-05	2.48E-05	2.48E-05	1.36E-05	1.23E-06	1.77E-05	1.10E-05	1.10E-05	5.45E-06
1328	259086	4084109	1.50E-05	2.17E-04	1.60E-04	1.60E-04	8.92E-05	2.28E-06	3.31E-05	2.50E-05	2.50E-05	1.37E-05	1.24E-06	1.79E-05	1.11E-05	1.11E-05	5.50E-06
1329	259118.7	4084139	1.55E-05	2.25E-04	1.66E-04	1.66E-04	9.24E-05	2.36E-06	3.42E-05	2.59E-05	2.59E-05	1.42E-05	1.28E-06	1.85E-05	1.15E-05	1.15E-05	5.70E-06
1330	259128.7	4084162	1.59E-05	2.31E-04	1.70E-04	1.70E-04	9.48E-05	2.42E-06	3.51E-05	2.65E-05	2.65E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.85E-06
1331	259138.7	4084184	1.63E-05	2.36E-04	1.74E-04	1.74E-04	9.70E-05	2.48E-06	3.59E-05	2.72E-05	2.72E-05	1.49E-05	1.34E-06	1.94E-05	1.21E-05	1.21E-05	5.98E-06
1332	259148.6	4084206	1.66E-05	2.41E-04	1.77E-04	1.77E-04	9.89E-05	2.52E-06	3.66E-05	2.77E-05	2.77E-05	1.52E-05	1.37E-06	1.98E-05	1.23E-05	1.23E-05	6.10E-06
1333	259158.6	4084228	1.69E-05	2.44E-04	1.80E-04	1.80E-04	1.00E-04	2.56E-06	3.72E-05	2.81E-05	2.81E-05	1.55E-05	1.39E-06	2.01E-05	1.25E-05	1.25E-05	6.19E-06
1334	259168.6	4084250	1.71E-05	2.47E-04	1.82E-04	1.82E-04	1.02E-04	2.60E-06	3.77E-05	2.85E-05	2.85E-05	1.57E-05	1.41E-06	2.04E-05	1.27E-05	1.27E-05	6.27E-06
1335	259178.6	4084272	1.73E-05	2.50E-04	1.84E-04	1.84E-04	1.03E-04	2.62E-06	3.80E-05	2.87E-05	2.87E-05	1.58E-05	1.42E-06	2.06E-05	1.28E-05	1.28E-05	6.33E-06

1336	259188.6	4084294	1.73E-05	2.51E-04	1.85E-04	1.85E-04	1.03E-04	2.63E-06	3.82E-05	2.89E-05	2.89E-05	1.59E-05	1.43E-06	2.07E-05	1.28E-05	1.28E-05	6.36E-06
1337	259198.6	4084316	1.74E-05	2.51E-04	1.85E-04	1.85E-04	1.03E-04	2.64E-06	3.83E-05	2.89E-05	2.89E-05	1.59E-05	1.43E-06	2.07E-05	1.29E-05	1.29E-05	6.36E-06
1338	259208.6	4084338	1.73E-05	2.50E-04	1.85E-04	1.85E-04	1.03E-04	2.63E-06	3.82E-05	2.88E-05	2.88E-05	1.58E-05	1.43E-06	2.06E-05	1.28E-05	1.28E-05	6.35E-06
1339	259218.5	4084360	1.72E-05	2.49E-04	1.84E-04	1.84E-04	1.02E-04	2.61E-06	3.79E-05	2.87E-05	2.87E-05	1.58E-05	1.42E-06	2.05E-05	1.28E-05	1.28E-05	6.31E-06
1340	259228.5	4084382	1.71E-05	2.47E-04	1.82E-04	1.82E-04	1.01E-04	2.59E-06	3.76E-05	2.84E-05	2.84E-05	1.56E-05	1.41E-06	2.03E-05	1.26E-05	1.26E-05	6.25E-06
1341	259238.5	4084404	1.68E-05	2.44E-04	1.80E-04	1.80E-04	1.00E-04	2.56E-06	3.71E-05	2.80E-05	2.80E-05	1.54E-05	1.39E-06	2.01E-05	1.25E-05	1.25E-05	6.17E-06
1342	259248.5	4084426	1.66E-05	2.41E-04	1.77E-04	1.77E-04	9.89E-05	2.53E-06	3.67E-05	2.77E-05	2.77E-05	1.52E-05	1.37E-06	1.98E-05	1.23E-05	1.23E-05	6.10E-06
1343	259258.5	4084449	1.63E-05	2.36E-04	1.74E-04	1.74E-04	9.71E-05	2.48E-06	3.60E-05	2.72E-05	2.72E-05	1.50E-05	1.35E-06	1.95E-05	1.21E-05	1.21E-05	5.99E-06
1344	259268.5	4084471	1.60E-05	2.31E-04	1.71E-04	1.71E-04	9.51E-05	2.43E-06	3.53E-05	2.66E-05	2.66E-05	1.46E-05	1.32E-06	1.91E-05	1.19E-05	1.19E-05	5.87E-06
1345	259278.5	4084493	1.56E-05	2.26E-04	1.67E-04	1.67E-04	9.29E-05	2.37E-06	3.44E-05	2.60E-05	2.60E-05	1.43E-05	1.29E-06	1.86E-05	1.16E-05	1.16E-05	5.73E-06
1346	259288.5	4084515	1.52E-05	2.20E-04	1.63E-04	1.63E-04	9.06E-05	2.31E-06	3.36E-05	2.54E-05	2.54E-05	1.39E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.59E-06
1347	259298.4	4084537	1.48E-05	2.15E-04	1.58E-04	1.58E-04	8.82E-05	2.25E-06	3.27E-05	2.47E-05	2.47E-05	1.36E-05	1.22E-06	1.77E-05	1.10E-05	1.10E-05	5.44E-06
1348	259308.4	4084559	1.44E-05	2.08E-04	1.54E-04	1.54E-04	8.57E-05	2.19E-06	3.18E-05	2.40E-05	2.40E-05	1.32E-05	1.19E-06	1.72E-05	1.07E-05	1.07E-05	5.28E-06
1349	259318.4	4084581	1.40E-05	2.02E-04	1.49E-04	1.49E-04	8.30E-05	2.12E-06	3.08E-05	2.33E-05	2.33E-05	1.28E-05	1.15E-06	1.67E-05	1.03E-05	1.03E-05	5.12E-06
1350	259328.4	4084603	1.35E-05	1.96E-04	1.44E-04	1.44E-04	8.03E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.11E-06	1.61E-05	1.00E-05	1.00E-05	4.96E-06
1351	259338.4	4084625	1.30E-05	1.89E-04	1.39E-04	1.39E-04	7.75E-05	1.98E-06	2.87E-05	2.17E-05	2.17E-05	1.19E-05	1.08E-06	1.56E-05	9.66E-06	9.66E-06	4.78E-06
1352	259348.4	4084647	1.26E-05	1.82E-04	1.34E-04	1.34E-04	7.46E-05	1.91E-06	2.77E-05	2.09E-05	2.09E-05	1.15E-05	1.04E-06	1.50E-05	9.30E-06	9.30E-06	4.60E-06
1353	259358.4	4084669	1.21E-05	1.74E-04	1.29E-04	1.29E-04	7.16E-05	1.83E-06	2.66E-05	2.01E-05	2.01E-05	1.10E-05	9.94E-07	1.44E-05	8.93E-06	8.93E-06	4.42E-06
1354	259368.3	4084691	1.15E-05	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.52E-07	1.38E-05	8.55E-06	8.55E-06	4.23E-06
1355	259378.3	4084713	1.11E-05	1.60E-04	1.18E-04	1.18E-04	6.57E-05	1.68E-06	2.43E-05	1.84E-05	1.84E-05	1.01E-05	9.11E-07	1.32E-05	8.18E-06	8.18E-06	4.05E-06
1356	259388.3	4084735	1.06E-05	1.53E-04	1.13E-04	1.13E-04	6.28E-05	1.60E-06	2.33E-05	1.76E-05	1.76E-05	9.67E-06	8.71E-07	1.26E-05	7.83E-06	7.83E-06	3.87E-06
1357	259398.3	4084758	1.01E-05	1.46E-04	1.08E-04	1.08E-04	6.01E-05	1.53E-06	2.23E-05	1.68E-05	1.68E-05	9.25E-06	8.34E-07	1.21E-05	7.49E-06	7.49E-06	3.71E-06
1358	259408.3	4084780	9.69E-06	1.40E-04	1.03E-04	1.03E-04	5.76E-05	1.47E-06	2.13E-05	1.61E-05	1.61E-05	8.86E-06	7.98E-07	1.15E-05	7.17E-06	7.17E-06	3.55E-06
1359	259418.3	4084802	9.29E-06	1.34E-04	9.90E-05	9.90E-05	5.52E-05	1.41E-06	2.05E-05	1.55E-05	1.55E-05	8.50E-06	7.66E-07	1.11E-05	6.88E-06	6.88E-06	3.41E-06
1360	259428.3	4084824	8.92E-06	1.29E-04	9.51E-05	9.51E-05	5.30E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.16E-06	7.35E-07	1.06E-05	6.60E-06	6.60E-06	3.27E-06
1361	259438.2	4084846	8.56E-06	1.24E-04	9.13E-05	9.13E-05	5.09E-05	1.30E-06	1.89E-05	1.43E-05	1.43E-05	7.84E-06	7.06E-07	1.02E-05	6.34E-06	6.34E-06	3.14E-06
1362	259448.2	4084868	8.22E-06	1.19E-04	8.76E-05	8.76E-05	4.88E-05	1.25E-06	1.81E-05	1.37E-05	1.37E-05	7.52E-06	6.77E-07	9.80E-06	6.09E-06	6.09E-06	3.01E-06
1363	258313.5	4083823	3.68E-06	5.33E-05	3.93E-05	3.93E-05	2.19E-05	5.59E-07	8.12E-06	6.13E-06	6.13E-06	3.37E-06	3.04E-07	4.39E-06	2.73E-06	2.73E-06	1.35E-06
1364	258289.2	4083824	3.58E-06	5.17E-05	3.81E-05	3.81E-05	2.13E-05	5.43E-07	7.88E-06	5.95E-06	5.95E-06	3.27E-06	2.95E-07	4.26E-06	2.65E-06	2.65E-06	1.31E-06
1365	258264.8	4083825	3.47E-06	5.02E-05	3.70E-05	3.70E-05	2.06E-05	5.27E-07	7.65E-06	5.78E-06	5.78E-06	3.18E-06	2.86E-07	4.14E-06	2.57E-06	2.57E-06	1.27E-06
1366	258240.5	4083826	3.37E-06	4.88E-05	3.59E-05	3.59E-05	2.00E-05	5.12E-07	7.43E-06	5.61E-06	5.61E-06	3.08E-06	2.78E-07	4.02E-06	2.50E-06	2.50E-06	1.24E-06
1367	258216.2	4083827	3.27E-06	4.73E-05	3.49E-05	3.49E-05	1.94E-05	4.97E-07	7.21E-06	5.45E-06	5.45E-06	2.99E-06	2.70E-07	3.90E-06	2.42E-06	2.42E-06	1.20E-06
1368	258191.8	4083828	3.17E-06	4.59E-05	3.38E-05	3.38E-05	1.89E-05	4.82E-07	6.99E-06	5.28E-06	5.28E-06	2.90E-06	2.62E-07	3.78E-06	2.35E-06	2.35E-06	1.16E-06
1369	258167.5	4083829	3.08E-06	4.45E-05	3.28E-05	3.28E-05	1.83E-05	4.67E-07	6.79E-06	5.13E-06	5.13E-06	2.82E-06	2.54E-07	3.67E-06	2.28E-06	2.28E-06	1.13E-06
1370	258143.2	4083830	2.99E-06	4.32E-05	3.18E-05	3.18E-05	1.77E-05	4.53E-07	6.58E-06	4.97E-06	4.97E-06	2.73E-06	2.46E-07	3.56E-06	2.21E-06	2.21E-06	1.09E-06
1371	258118.8	4083831	2.89E-06	4.18E-05	3.08E-05	3.08E-05	1.72E-05	4.39E-07	6.38E-06	4.82E-06	4.82E-06	2.65E-06	2.38E-07	3.45E-06	2.14E-06	2.14E-06	1.06E-06
1372	258094.5	4083832	2.80E-06	4.05E-05	2.99E-05	2.99E-05	1.66E-05	4.25E-07	6.17E-06	4.66E-06	4.66E-06	2.56E-06	2.31E-07	3.34E-06	2.07E-06	2.07E-06	1.03E-06
1373	258070.2	4083833	2.71E-06	3.92E-05	2.89E-05	2.89E-05	1.61E-05	4.12E-07	5.98E-06	4.52E-06	4.52E-06	2.48E-06	2.24E-07	3.23E-06	2.01E-06	2.01E-06	9.95E-07
1374	258045.9	4083834	2.63E-06	3.80E-05	2.80E-05	2.80E-05	1.56E-05	3.99E-07	5.79E-06	4.38E-06	4.38E-06	2.41E-06	2.17E-07	3.13E-06	1.95E-06	1.95E-06	9.64E-07
1375	258021.5	4083835	2.55E-06	3.68E-05	2.72E-05	2.72E-05	1.51E-05	3.87E-07	5.61E-06	4.24E-06	4.24E-06	2.33E-06	2.10E-07	3.04E-06	1.89E-06	1.89E-06	9.34E-07
1376	257997.2	4083836	2.47E-06	3.57E-05	2.63E-05	2.63E-05	1.47E-05	3.75E-07	5.44E-06	4.11E-06	4.11E-06	2.26E-06	2.04E-07	2.94E-06	1.83E-06	1.83E-06	9.05E-07
1377	257972.9	4083837	2.39E-06	3.46E-05	2.55E-05	2.55E-05	1.42E-05	3.63E-07	5.27E-06	3.98E-06	3.98E-06	2.19E-06	1.97E-07	2.85E-06	1.77E-06	1.77E-06	8.77E-07
1378	257948.5	4083838	2.33E-06	3.36E-05	2.48E-05	2.48E-05	1.38E-05	3.53E-07	5.12E-06	3.87E-06	3.87E-06	2.13E-06	1.92E-07	2.77E-06	1.72E-06	1.72E-06	8.53E-07
1379	257924.2	4083839	2.26E-06	3.27E-05	2.41E-05	2.41E-05	1.34E-05	3.43E-07	4.98E-06	3.76E-06	3.76E-06	2.07E-06	1.86E-07	2.69E-06	1.67E-06	1.67E-06	8.28E-07
1380	257899.9	4083840	2.20E-06	3.18E-05	2.35E-05	2.35E-05	1.31E-05	3.34E-07	4.85E-06	3.66E-06	3.66E-06	2.01E-06	1.81E-07	2.62E-06	1.63E-06	1.63E-06	8.07E-07
1381	257875.5	4083841	2.14E-06	3.10E-05	2.28E-05	2.28E-05	1.27E-05	3.25E-07	4.72E-06	3.57E-06	3.57E-06	1.96E-06	1.77E-07	2.56E-06	1.59E-06	1.59E-06	7.86E-07
1382	257851.2	4083842	2.09E-06	3.03E-05	2.23E-05	2.23E-05	1.24E-05	3.18E-07	4.61E-06	3.48E-06	3.48E-06	1.91E-06	1.72E-07	2.49E-06	1.55E-06	1.55E-06	7.67E-07
1383	257826.9	4083843	2.05E-06	2.96E-05	2.18E-05	2.18E-05	1.22E-05	3.10E-07	4.51E-06	3.40E-06	3.40E-06	1.87E-06	1.69E-07	2.44E-06	1.51E-06	1.51E-06	7.50E-07
1384	257802.5	4083844	2.00E-06	2.90E-05	2.13E-05	2.13E-05	1.19E-05	3.04E-07	4.41E-06	3.33E-06	3.33E-06	1.83E-06	1.65E-07	2.39E-06	1.48E-06	1.48E-06	7.34E-07
1385	257778.2	4083845	1.96E-06	2.84E-05	2.09E-05	2.09E-05	1.17E-05	2.98E-07	4.33E-06	3.27E-06	3.27E-06	1.80E-06	1.62E-07	2.34E-06	1.45E-06	1.45E-06	7.20E-07
1386	257753.9	4083846	1.93E-06	2.79E-05	2.06E-05	2.06E-05	1.15E-05	2.93E-07	4.25E-06	3.21E-06	3.21E-06	1.76E-06	1.59E-07	2.30E-06	1.43E-06	1.43E-06	7.07E-07
1387	257729.5	4083847	1.90E-06	2.74E-05	2.02E-05	2.02E-05	1.13E-05	2.88E-07	4.18E-06	3.15E-06	3.15E-06	1.73E-06	1.56E-07	2.26E-06	1.40E-06	1.40E-06	6.95E-07
1388	257705.2	4083848	1.86E-06	2.70E-05	1.99E-05	1.99E-05	1.11E-05	2.83E-07	4.11E-06	3.10E-06	3.10E-06	1.71E-06	1.54E-07	2.22E-06	1.38E-06	1.38E-06	6.84E-07
1389	257680.9	4083849	1.84E-06	2.66E-05	1.96E-05	1.96E-05	1.09E-05	2.79E-07	4.05E-06	3.06E-06	3.06E-06	1.68E-06	1.52E-07	2.19E-06	1.36E-06	1.36E-06	6.74E-07
1390	257656.5	4083850	1.81E-06	2.62E-05	1.93E-05	1.93E-05	1.08E-05	2.75E-07	3.99E-06	3.02E-06	3.02E-06	1.66E-06	1.49E-07	2.16E-06	1.34E-06	1.34E-06	6.64E-07
1391	257632.2	4083851	1.79E-06	2.59E-05	1.91E-05	1.91E-05	1.06E-05	2.71E-07	3.94E-06	2.98E-06	2.98E-06	1.64E-06	1.47E-07	2.13E-06	1.32E-06	1.32E-06	6.56E-07
1392	257607.9	4083852	1.76E-06	2.55E-05	1.88E-05	1.88E-05	1.05E-05	2.68E-07	3.89E-06	2.94E-06	2.94E-06	1.61E-06	1.45E-07	2.10E-06	1.31E-06	1.31E-06	6.47E-07
1393	257583.5	4083853	1.74E-06	2.52E-05	1.86E-05	1.86E-05	1.04E-05	2.64E-07	3.84E-06	2.90E-06	2.90E-06	1.59E-06	1.44E-07	2.08E-06	1.29E-06	1.29E-06	6.38E-07
1394	257559.2	4083854	1.72E-06	2.49E-05	1.83E-05	1.83E-05	1.02E-05	2.61E-07	3.79E-06	2.86E-06	2.86E-06	1.57E-06	1.42E-07	2.05E-06	1.27E-06	1.27E-06	6.30E-07
1395	257534.9	4083855	1.69E-06	2.45E-05	1.81E-05	1.81E-05	1.01E-05	2.57E-07	3.73E-06	2.82E-06	2.82E-06	1.55E-06	1.40E-07	2.02E-06	1.25E-06	1.25E-06	6.21E-07
1396	257510.6	4083856	1.67E-06	2.42E-05	1.78E-05	1.78E-05	9.94E-06	2.54E-07	3.68E-06	2.78E-06	2.78E-06	1.53E-06	1.38E-07	1.99E-06	1.24E-06	1.24E-06	6.13E-07
1397	258327.7	4083631	2.62E-06	3.79E-05	2.79E-05	2.79E-05	1.56E-05	3.97E-07	5.77E-06	4.36E-06	4.36E-06	2.40E-06	2.16E-07	3.12E-06	1.94E-06	1.94E-06	9.60E-07
1398	258350	4083640	2.72E-06	3.94E-05	2.90E-05	2.90E-05	1.62E-05	4.13E-07	6.00E-06	4.53E-06	4.53E-06	2.49E-06	2.24E-07	3.24E-06	2.02E-06	2.02E-06	9.98E-07
1399	258372.4	4083648	2.83E-06	4.09E-05	3.02E-05	3.02E-05	1.68E-05	4.29E-07	6.24E-06	4.71E-06	4.71E-06	2.59E-06	2.33E-07	3.37E-06	2.10E-06	2.10E-06	1.04E-06
1400	258394.8	4083656	2.95E-06	4.26E-05	3.14E-05	3.14E-05	1.75E-05	4.47E-07	6.49E-06	4.90E-06	4.90E-06	2.70E-06	2.43E-07	3.51E-06	2.18E-06	2.18E-06	1.08E-06
1401	258417.2	4083665	3.07E-06	4.45E-05	3.28E-05	3.28E-05	1.83E-05	4.66E-07	6.77E-06	5.12E-06	5.12E-06	2.81E-06	2.53E-07	3.66E-06	2.28E-06	2.28E-06	1.13E-06
1402	258439.5	4083673	3.21E-06	4.64E-05	3.42E-05	3.42E-05	1.91E-05	4.87E-07	7.07E-06	5.34E-06	5.34E-06	2.94E-06	2.65E-07	3.83E-06	2.38E-06	2.38E-06	1.18E-06
1403	258461.9	4083681	3.35E-06	4.85E-05	3.58E-05	3.58E-05	1.99E-05	5.09E-07	7.39E-06	5.58E-06	5.58E-06	3.07E-06	2.77E-07	4.00E-06	2.48E-06	2.48E-06	1.23E-06
1404	258484.3	4083689	3.51E-06	5.08E-05	3.74E-05	3.74E-05	2.09E-05	5.33E-07	7.73E-06	5.84E-06	5.84E-06	3.21E-06	2.89E-07	4.18E-06	2.60E-06	2.60E-06	1.29E-06
1405	258506.7	4083698	3.68E-06	5.32E-05	3.92E-05	3.92E-05	2.19E-05	5.59E-07	8.11E-06	6.13E-06	6.13E-06	3.37E-06	3.03E-07	4.39E-06	2.73E-06	2.73E-06	1.35E-06
1406	258529	4083706	3.86E-06	5.58E-05	4.12E-05	4.12E-05	2.29E-05	5.86E-07	8.51E-06	6.43E-06	6.43E-06	3.53E-06	3.18E-07	4.60E-06	2.86E-06	2.86E-06	1.42E-06
1407	258551.4	4083714	4.05E-06	5.86E-05	4.32E-05	4.32E-05	2.41E-05	6.15E-07	8.93E-06	6.75E-06	6.75E-06	3.71E-06	3.34E-07	4.83E-06	3.00E-06	3.00E-06	1.49E-06
1408	258573.8	4083723	4.26E-06	6.16E-05	4.54E-05	4.54E-05	2.53E-05	6.46E-07	9.38E-06	7.09E-06	7.09E-06	3.90E-06	3.51E-07	5.08E-06	3.15E-06	3.15E-06	1.56E-06
1409	258596.2	4083731	4.48E-06	6.47E-05	4.77E-05	4.77E-05	2.66E-05	6.79E-07	9.86E-06	7.45E-06	7.45E-06	4.10E-06	3.69E-07	5.34E-06	3.31E-06	3.31E-06	1.64E-06
1410	258618.5	4083739	4.70E-06	6.80E-05	5.01E-05	5.01E-05	2.79E-05	7.14E-07	1.04E-05	7.83E-06	7.83E-06	4.30E-06	3.88E-07	5.61E-06	3.48E-06	3.48E-06	1.72E-06
1411	258640.9	4083747	4.94E-06	7.15E-05	5.27E-05	5.27E-05	2.94E-05	7.50E-07	1.09E-05	8.23E-06	8.23E-06	4.52E-06	4.07E-07	5.89E-06	3.66E-06	3.66E-06	1.81E-06
1412	258663.3	4083756	5.19E-06	7.51E-05	5.53E-05	5.53E-05	3.08E-05	7.88E-07	1.14E-05	8.64E-06	8.64E-06	4.75E-06	4.28E-07	6.19E-06	3.84E-06	3.84E-06	1.90E-06
1413	258685.7	4083764	5.45E-06	7.88E-05	5.81E-05	5.81E-05	3.24E-05	8.27E-07	1.20E-05	9.07E-06	9.07E-06	4.99E-06	4.49E-07	6.50E-06	4.04E-06	4.04E-06	2.00E-06
1414	258708	4083772	5.72E-06	8.27E-05	6.10E-05	6.10E-05	3.40E-05	8.68E-07	1.26E-05	9.52E-06	9.52E-06	5.23E-06	4.71E-07	6.82E-06	4.24E-06	4.24E-06	2.10E-06
1415	258730.4	4083781	6.00E-06	8.67E-05	6.39E-05	6.39E-05	3.56E-05	9.10E-07	1.32E-05	9.98E-06	9.98E-06	5.49E-06	4.94E-07	7.15E-06	4.44E-06	4.44E-06	2.20E-06
1416	258752.8	4083789	6.28E-06	9.09E-05	6.70E-05	6.70E-05	3.73E-05	9.53E-07	1.38E-05	1.05E-05	1.05E-05	5.75E-06	5.18E-07	7.49E-06	4.65E-06	4.65E-06	2.30E-06
1417	258775.2	4083797	6.57E-06	9.51E-05	7.01E-05	7.01E-05	3.91E-05	9.98E-07	1.45E-05	1.09E-05	1.09E-05	6.02E-06	5.42E-07	7.84E-06	4.87E-06	4.87E-06	2.41E-06
1418	258797.6	4083805	6.87E-06	9.94E-05	7.33E-05	7.33E-05	4.08E-05	1.04E-06	1.51E-05	1.14E-05	1.14E-05	6.29E-06	5.67E-07	8.19E-06	5.09E-06	5.09E-06	2.52E-06
1419	258819.9	4083814	7.18E-06	1.04E-04	7.65E-05	7.65E-05	4.27E-05	1.09E-06	1.58E-05	1.19E-05	1.19E-05	6.57E-06	5.92E-07	8.56E-06	5.32E-06	5.32E-06	2.63E-06
1420	258842.3	4083822	7.49E-06	1.08E-04	7.98E-05	7.98E-05	4.45E-05	1.14E-06	1.65E-05	1.25E-05	1.25E-05	6.85E-06	6.17E-07	8.92E-06	5.54E-06	5.54E-06	2.74E-06
1421	258864.7	4083830	7.79E-06	1.13E-04	8.31E-05	8.31E-05	4.63E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.13E-06	6.43E-07	9.29E-06	5.77E-06	5.77E-06	2.86E-06
1422	258887.1	4083839	8.11E-06	1.17E-04	8.64E-05	8.64E-05	4.82E-05	1.23E-06	1.79E-05	1.35E-05	1.35E-05	7.42E-06	6.68E-07	9.66E-06	6.00E-06	6.00E-06	2.97E-06
1423	258909.4	4083847	8.42E-06	1.22E-04	8.97E-05	8.97E-05	5.00E-05	1.28E-06	1.85E-05	1.40E-05	1.40E-05	7.70E-06	6.94E-07	1.00E-05	6.23E-06	6.23E-06	3.08E-06
1424	258931.8	4083855	8.73E-06	1.26E-04	9.30E-05	9.30E-05	5.19E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.98E-06	7.19E-07	1.04E-05	6.46E-06	6.46E-06	3.20E-06
1425	258954.2	4083863	9.03E-06	1.31E-04	9.63E-05	9.63E-05	5.37E-05	1.37E-06	1.99E-05	1.50E-05	1.50E-05	8.26E-06	7.44E-07	1.08E-05	6.69E-06	6.69E-06	3.31E-06
1426	258976.6	4083872	9.33E-06	1.35E-04	9.95E-05	9.95E-05	5.55E-05	1.42E-06	2.06E-05	1.55E-05	1.55E-05	8.54E-06	7.69E-07	1.11E-05	6.91E-06	6.91E-06	3.42E-06
1427	258998.9	4083880	9.62E-06	1.39E-04	1.03E-04	1.03E-04	5.72E-05	1.46E-06	2.12E-05	1.60E-05	1.60E-05	8.81E-06	7.93E-07	1.15E-05	7.13E-06	7.13E-06	3.53E-06
1428	259021.3	4083888	9.91E-06	1.43E-04	1.06E-04	1.06E-04	5.89E-05	1.50E-06	2.18E-05	1.65E-05	1.65E-05	9.07E-06	8.17E-07	1.18E-05	7.34E-06	7.34E-06	3.63E-06
1429	259043.7	4083897	1.02E-05	1.47E-04	1.09E-04	1.09E-04	6.05E-05	1.55E-06	2.24E-05	1.69E-05	1.69E-05	9.32E-06	8.39E-07	1.21E-05	7.54E-06	7.54E-06	3.73E-06
1430	259066.1	4083905	1.04E-05	1.51E-04	1.11E-04	1.11E-04	6.20E-05	1.58E-06	2.30E-05	1.74E-05	1.74E-05	9.55E-06	8.60E-07	1.24E-05	7.73E-06	7.73E-06	3.82E-06
1431	259088.4	4083913	1.07E-05	1.54E-04	1.14E-04	1.14E-04	6.34E-05	1.62E-06	2.35E-05	1.78E-05	1.78E-05	9.76E-06	8.80E-07	1.27E-05	7.90E-06	7.90E-06	3.91E-06
1432	259110.8	4083921	1.09E-05	1.57E-04	1.16E-04	1.16E-04	6.47E-05	1.65E-06	2.40E-05	1.81E-05	1.81E-05	9.96E-06	8.98E-07	1.30E-05	8.06E-06	8.06E-06	3.99E-06
1433	259133.2	4083930	1.11E-05	1.60E-04	1.18E-04	1.18E-04	6.59E-05	1.68E-06	2.44E-05	1.85E-05	1.85E-05	1.01E-05	9.14E-07	1.32E-05	8.21E-06	8.21E-06	4.07E-06
1434	259155.6	4083938	1.13E-05	1.63E-04	1.20E-04	1.20E-04	6.70E-05	1.71E-06	2.48E-05	1.88E-05	1.88E-05	1.03E-05	9.29E-07	1.34E-05	8.34E-06	8.34E-06	4.13E-06
1435	259177.9	4083946	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.78E-05	1.73E-06	2.51E-05	1.90E-05	1.90E-05	1.04E-05	9.41E-07	1.36E-05	8.45E-06	8.45E-06	4.18E-06
1436	259200.3	4083955	1.15E-05	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.52E-07	1.38E-05	8.55E-06	8.55E-06	4.23E-06
1437	259222.7	4083963	1.17E-05	1.69E-04	1.24E-04	1.24E-04	6.93E-05	1.77E-06	2.57E-05	1.94E-05	1.94E-05	1.07E-05	9.61E-07	1.39E-05	8.63E-06	8.63E-06	4.27E-06
1438	259254.9	4083993	1.21E-05	1.74E-04	1.28E-04	1.28E-04	7.16E-05	1.83E-06	2.66E-05	2.01E-05	2.01E-05	1.10E-05	9.93E-07	1.44E-05	8.92E-06	8.92E-06	4.42E-06

1439	259264.7	4084015	1.23E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
1440	259274.6	4084036	1.26E-05	1.83E-04	1.35E-04	1.35E-04	7.50E-05	1.92E-06	2.78E-05	2.10E-05	2.10E-05	1.15E-05	1.04E-06	1.50E-05	9.34E-06	9.34E-06	4.63E-06
1441	259284.4	4084058	1.29E-05	1.86E-04	1.37E-04	1.37E-04	7.65E-05	1.95E-06	2.84E-05	2.14E-05	2.14E-05	1.18E-05	1.06E-06	1.53E-05	9.53E-06	9.53E-06	4.72E-06
1442	259294.2	4084080	1.31E-05	1.89E-04	1.40E-04	1.40E-04	7.78E-05	1.99E-06	2.89E-05	2.18E-05	2.18E-05	1.20E-05	1.08E-06	1.56E-05	9.70E-06	9.70E-06	4.80E-06
1443	259304.1	4084102	1.33E-05	1.92E-04	1.42E-04	1.42E-04	7.90E-05	2.02E-06	2.93E-05	2.21E-05	2.21E-05	1.22E-05	1.10E-06	1.58E-05	9.84E-06	9.84E-06	4.87E-06
1444	259313.9	4084123	1.34E-05	1.94E-04	1.43E-04	1.43E-04	7.99E-05	2.04E-06	2.96E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.60E-05	9.96E-06	9.96E-06	4.93E-06
1445	259323.7	4084145	1.36E-05	1.96E-04	1.45E-04	1.45E-04	8.06E-05	2.06E-06	2.99E-05	2.26E-05	2.26E-05	1.24E-05	1.12E-06	1.62E-05	1.00E-05	1.00E-05	4.97E-06
1446	259333.6	4084167	1.37E-05	1.97E-04	1.46E-04	1.46E-04	8.11E-05	2.07E-06	3.01E-05	2.27E-05	2.27E-05	1.25E-05	1.13E-06	1.63E-05	1.01E-05	1.01E-05	5.00E-06
1447	259343.4	4084188	1.37E-05	1.98E-04	1.46E-04	1.46E-04	8.14E-05	2.08E-06	3.02E-05	2.28E-05	2.28E-05	1.25E-05	1.13E-06	1.63E-05	1.01E-05	1.01E-05	5.02E-06
1448	259353.3	4084210	1.37E-05	1.98E-04	1.46E-04	1.46E-04	8.15E-05	2.08E-06	3.02E-05	2.28E-05	2.28E-05	1.25E-05	1.13E-06	1.63E-05	1.02E-05	1.02E-05	5.02E-06
1449	259363.1	4084232	1.37E-05	1.98E-04	1.46E-04	1.46E-04	8.13E-05	2.08E-06	3.01E-05	2.28E-05	2.28E-05	1.25E-05	1.13E-06	1.63E-05	1.01E-05	1.01E-05	5.01E-06
1450	259372.9	4084254	1.36E-05	1.97E-04	1.45E-04	1.45E-04	8.08E-05	2.06E-06	3.00E-05	2.26E-05	2.26E-05	1.24E-05	1.12E-06	1.62E-05	1.01E-05	1.01E-05	4.99E-06
1451	259382.8	4084275	1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.02E-05	2.05E-06	2.97E-05	2.25E-05	2.25E-05	1.23E-05	1.11E-06	1.61E-05	9.99E-06	9.99E-06	4.95E-06
1452	259392.6	4084297	1.34E-05	1.93E-04	1.42E-04	1.42E-04	7.94E-05	2.03E-06	2.94E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.89E-06	9.89E-06	4.89E-06
1453	259402.4	4084319	1.32E-05	1.91E-04	1.41E-04	1.41E-04	7.83E-05	2.00E-06	2.90E-05	2.19E-05	2.19E-05	1.21E-05	1.09E-06	1.57E-05	9.76E-06	9.76E-06	4.83E-06
1454	259412.3	4084341	1.30E-05	1.88E-04	1.38E-04	1.38E-04	7.71E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.61E-06	9.61E-06	4.76E-06
1455	259422.1	4084362	1.28E-05	1.84E-04	1.36E-04	1.36E-04	7.58E-05	1.94E-06	2.81E-05	2.12E-05	2.12E-05	1.17E-05	1.05E-06	1.52E-05	9.45E-06	9.45E-06	4.68E-06
1456	259431.9	4084384	1.25E-05	1.81E-04	1.33E-04	1.33E-04	7.44E-05	1.90E-06	2.76E-05	2.08E-05	2.08E-05	1.15E-05	1.03E-06	1.49E-05	9.27E-06	9.27E-06	4.59E-06
1457	259441.8	4084406	1.23E-05	1.78E-04	1.31E-04	1.31E-04	7.32E-05	1.87E-06	2.71E-05	2.05E-05	2.05E-05	1.13E-05	1.01E-06	1.47E-05	9.12E-06	9.12E-06	4.51E-06
1458	259451.6	4084428	1.21E-05	1.74E-04	1.28E-04	1.28E-04	7.16E-05	1.83E-06	2.66E-05	2.01E-05	2.01E-05	1.10E-05	9.94E-07	1.44E-05	8.93E-06	8.93E-06	4.42E-06
1459	259461.4	4084449	1.18E-05	1.71E-04	1.26E-04	1.26E-04	7.01E-05	1.79E-06	2.60E-05	1.96E-05	1.96E-05	1.08E-05	9.72E-07	1.41E-05	8.73E-06	8.73E-06	4.32E-06
1460	259471.3	4084471	1.15E-05	1.67E-04	1.23E-04	1.23E-04	6.85E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.05E-05	9.50E-07	1.37E-05	8.54E-06	8.54E-06	4.23E-06
1461	259481.1	4084493	1.13E-05	1.63E-04	1.20E-04	1.20E-04	6.69E-05	1.71E-06	2.48E-05	1.87E-05	1.87E-05	1.03E-05	9.28E-07	1.34E-05	8.34E-06	8.34E-06	4.13E-06
1462	259490.9	4084515	1.10E-05	1.59E-04	1.17E-04	1.17E-04	6.53E-05	1.67E-06	2.42E-05	1.83E-05	1.83E-05	1.01E-05	9.06E-07	1.31E-05	8.14E-06	8.14E-06	4.03E-06
1463	259500.8	4084536	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.36E-05	1.62E-06	2.36E-05	1.78E-05	1.78E-05	9.80E-06	8.83E-07	1.28E-05	7.93E-06	7.93E-06	3.92E-06
1464	259510.6	4084558	1.04E-05	1.51E-04	1.11E-04	1.11E-04	6.19E-05	1.58E-06	2.29E-05	1.73E-05	1.73E-05	9.53E-06	8.58E-07	1.24E-05	7.71E-06	7.71E-06	3.82E-06
1465	259520.4	4084580	1.01E-05	1.46E-04	1.08E-04	1.08E-04	6.00E-05	1.53E-06	2.23E-05	1.68E-05	1.68E-05	9.24E-06	8.33E-07	1.20E-05	7.48E-06	7.48E-06	3.70E-06
1466	259530.3	4084602	9.77E-06	1.41E-04	1.04E-04	1.04E-04	5.81E-05	1.48E-06	2.15E-05	1.63E-05	1.63E-05	8.94E-06	8.06E-07	1.17E-05	7.24E-06	7.24E-06	3.58E-06
1467	259540.1	4084623	9.43E-06	1.36E-04	1.01E-04	1.01E-04	5.61E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.63E-06	7.77E-07	1.12E-05	6.99E-06	6.99E-06	3.46E-06
1468	259549.9	4084645	9.08E-06	1.31E-04	9.68E-05	9.68E-05	5.40E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.31E-06	7.49E-07	1.08E-05	6.73E-06	6.73E-06	3.33E-06
1469	259559.8	4084667	8.73E-06	1.26E-04	9.31E-05	9.31E-05	5.19E-05	1.33E-06	1.92E-05	1.45E-05	1.45E-05	7.99E-06	7.20E-07	1.04E-05	6.47E-06	6.47E-06	3.20E-06
1470	259569.6	4084688	8.40E-06	1.21E-04	8.95E-05	8.95E-05	4.99E-05	1.27E-06	1.85E-05	1.40E-05	1.40E-05	7.68E-06	6.92E-07	1.00E-05	6.22E-06	6.22E-06	3.08E-06
1471	259579.5	4084710	8.08E-06	1.17E-04	8.62E-05	8.62E-05	4.80E-05	1.23E-06	1.78E-05	1.35E-05	1.35E-05	7.40E-06	6.66E-07	9.64E-06	5.98E-06	5.98E-06	2.96E-06
1472	259589.3	4084732	7.79E-06	1.13E-04	8.31E-05	8.31E-05	4.63E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.13E-06	6.42E-07	9.29E-06	5.77E-06	5.77E-06	2.86E-06
1473	259599.1	4084754	7.52E-06	1.09E-04	8.02E-05	8.02E-05	4.47E-05	1.14E-06	1.66E-05	1.25E-05	1.25E-05	6.89E-06	6.20E-07	8.97E-06	5.57E-06	5.57E-06	2.76E-06
1474	259609	4084775	7.28E-06	1.05E-04	7.76E-05	7.76E-05	4.33E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.66E-06	6.00E-07	8.68E-06	5.39E-06	5.39E-06	2.67E-06
1475	259618.8	4084797	7.05E-06	1.02E-04	7.51E-05	7.51E-05	4.19E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.45E-06	5.81E-07	8.40E-06	5.22E-06	5.22E-06	2.58E-06
1476	259628.6	4084819	6.83E-06	9.87E-05	7.28E-05	7.28E-05	4.06E-05	1.04E-06	1.50E-05	1.14E-05	1.14E-05	6.25E-06	5.63E-07	8.14E-06	5.05E-06	5.05E-06	2.50E-06
1477	259638.5	4084841	6.60E-06	9.55E-05	7.04E-05	7.04E-05	3.93E-05	1.00E-06	1.46E-05	1.10E-05	1.10E-05	6.04E-06	5.44E-07	7.87E-06	4.89E-06	4.89E-06	2.42E-06
1478	259648.3	4084862	6.38E-06	9.23E-05	6.80E-05	6.80E-05	3.79E-05	9.69E-07	1.41E-05	1.06E-05	1.06E-05	5.84E-06	5.26E-07	7.61E-06	4.73E-06	4.73E-06	2.34E-06
1479	258305.3	4083623	2.52E-06	3.65E-05	2.69E-05	2.69E-05	1.50E-05	3.83E-07	5.56E-06	4.20E-06	4.20E-06	2.31E-06	2.08E-07	3.01E-06	1.87E-06	1.87E-06	9.25E-07
1480	258281	4083624	2.46E-06	3.56E-05	2.63E-05	2.63E-05	1.46E-05	3.74E-07	5.43E-06	4.10E-06	4.10E-06	2.25E-06	2.03E-07	2.94E-06	1.82E-06	1.82E-06	9.03E-07
1481	258256.6	4083625	2.41E-06	3.48E-05	2.56E-05	2.56E-05	1.43E-05	3.65E-07	5.30E-06	4.00E-06	4.00E-06	2.20E-06	1.98E-07	2.87E-06	1.78E-06	1.78E-06	8.82E-07
1482	258232.3	4083626	2.35E-06	3.40E-05	2.51E-05	2.51E-05	1.40E-05	3.57E-07	5.18E-06	3.91E-06	3.91E-06	2.15E-06	1.94E-07	2.80E-06	1.74E-06	1.74E-06	8.62E-07
1483	258208	4083627	2.30E-06	3.32E-05	2.45E-05	2.45E-05	1.36E-05	3.48E-07	5.06E-06	3.82E-06	3.82E-06	2.10E-06	1.89E-07	2.74E-06	1.70E-06	1.70E-06	8.41E-07
1484	258183.6	4083628	2.24E-06	3.24E-05	2.39E-05	2.39E-05	1.33E-05	3.40E-07	4.94E-06	3.73E-06	3.73E-06	2.05E-06	1.85E-07	2.67E-06	1.66E-06	1.66E-06	8.22E-07
1485	258159.3	4083629	2.19E-06	3.17E-05	2.33E-05	2.33E-05	1.30E-05	3.32E-07	4.82E-06	3.64E-06	3.64E-06	2.00E-06	1.80E-07	2.61E-06	1.62E-06	1.62E-06	8.02E-07
1486	258135	4083630	2.14E-06	3.09E-05	2.28E-05	2.28E-05	1.27E-05	3.24E-07	4.70E-06	3.55E-06	3.55E-06	1.95E-06	1.76E-07	2.55E-06	1.58E-06	1.58E-06	7.83E-07
1487	258110.6	4083631	2.08E-06	3.01E-05	2.22E-05	2.22E-05	1.24E-05	3.16E-07	4.59E-06	3.47E-06	3.47E-06	1.91E-06	1.72E-07	2.48E-06	1.54E-06	1.54E-06	7.63E-07
1488	258086.3	4083632	2.03E-06	2.94E-05	2.16E-05	2.16E-05	1.21E-05	3.08E-07	4.47E-06	3.38E-06	3.38E-06	1.86E-06	1.67E-07	2.42E-06	1.50E-06	1.50E-06	7.44E-07
1489	258062	4083633	1.98E-06	2.87E-05	2.11E-05	2.11E-05	1.18E-05	3.01E-07	4.37E-06	3.30E-06	3.30E-06	1.81E-06	1.63E-07	2.36E-06	1.47E-06	1.47E-06	7.26E-07
1490	258037.6	4083634	1.93E-06	2.79E-05	2.06E-05	2.06E-05	1.15E-05	2.93E-07	4.26E-06	3.22E-06	3.22E-06	1.77E-06	1.59E-07	2.30E-06	1.43E-06	1.43E-06	7.08E-07
1491	258013.3	4083635	1.88E-06	2.72E-05	2.01E-05	2.01E-05	1.12E-05	2.86E-07	4.15E-06	3.13E-06	3.13E-06	1.72E-06	1.55E-07	2.25E-06	1.39E-06	1.39E-06	6.90E-07
1492	257989	4083636	1.84E-06	2.66E-05	1.96E-05	1.96E-05	1.09E-05	2.79E-07	4.05E-06	3.06E-06	3.06E-06	1.68E-06	1.52E-07	2.19E-06	1.36E-06	1.36E-06	6.74E-07
1493	257964.6	4083637	1.79E-06	2.59E-05	1.91E-05	1.91E-05	1.07E-05	2.72E-07	3.95E-06	2.98E-06	2.98E-06	1.64E-06	1.48E-07	2.14E-06	1.33E-06	1.33E-06	6.57E-07
1494	257940.3	4083638	1.75E-06	2.53E-05	1.87E-05	1.87E-05	1.04E-05	2.66E-07	3.86E-06	2.92E-06	2.92E-06	1.60E-06	1.44E-07	2.09E-06	1.30E-06	1.30E-06	6.42E-07
1495	257916	4083639	1.71E-06	2.47E-05	1.82E-05	1.82E-05	1.02E-05	2.60E-07	3.77E-06	2.85E-06	2.85E-06	1.57E-06	1.41E-07	2.04E-06	1.27E-06	1.27E-06	6.27E-07
1496	257891.6	4083640	1.67E-06	2.42E-05	1.78E-05	1.78E-05	9.94E-06	2.54E-07	3.68E-06	2.78E-06	2.78E-06	1.53E-06	1.38E-07	1.99E-06	1.24E-06	1.24E-06	6.13E-07
1497	257867.3	4083641	1.64E-06	2.37E-05	1.75E-05	1.75E-05	9.73E-06	2.48E-07	3.61E-06	2.73E-06	2.73E-06	1.50E-06	1.35E-07	1.95E-06	1.21E-06	1.21E-06	6.00E-07
1498	257843	4083642	1.60E-06	2.32E-05	1.71E-05	1.71E-05	9.52E-06	2.43E-07	3.53E-06	2.67E-06	2.67E-06	1.47E-06	1.32E-07	1.91E-06	1.19E-06	1.19E-06	5.87E-07
1499	257818.6	4083643	1.57E-06	2.27E-05	1.68E-05	1.68E-05	9.34E-06	2.39E-07	3.46E-06	2.62E-06	2.62E-06	1.44E-06	1.30E-07	1.87E-06	1.16E-06	1.16E-06	5.76E-07
1500	257794.3	4083644	1.54E-06	2.23E-05	1.64E-05	1.64E-05	9.17E-06	2.34E-07	3.40E-06	2.57E-06	2.57E-06	1.41E-06	1.27E-07	1.84E-06	1.14E-06	1.14E-06	5.66E-07
1501	257770	4083645	1.52E-06	2.19E-05	1.62E-05	1.62E-05	9.01E-06	2.30E-07	3.34E-06	2.52E-06	2.52E-06	1.39E-06	1.25E-07	1.81E-06	1.12E-06	1.12E-06	5.56E-07
1502	257745.7	4083646	1.49E-06	2.15E-05	1.59E-05	1.59E-05	8.85E-06	2.26E-07	3.28E-06	2.48E-06	2.48E-06	1.36E-06	1.23E-07	1.78E-06	1.10E-06	1.10E-06	5.46E-07
1503	257721.3	4083647	1.47E-06	2.12E-05	1.56E-05	1.56E-05	8.72E-06	2.23E-07	3.23E-06	2.44E-06	2.44E-06	1.34E-06	1.21E-07	1.75E-06	1.09E-06	1.09E-06	5.38E-07
1504	257697	4083648	1.45E-06	2.09E-05	1.54E-05	1.54E-05	8.60E-06	2.20E-07	3.19E-06	2.41E-06	2.41E-06	1.32E-06	1.19E-07	1.72E-06	1.07E-06	1.07E-06	5.30E-07
1505	257672.7	4083649	1.43E-06	2.06E-05	1.52E-05	1.52E-05	8.48E-06	2.16E-07	3.14E-06	2.37E-06	2.37E-06	1.31E-06	1.18E-07	1.70E-06	1.06E-06	1.06E-06	5.23E-07
1506	257648.3	4083650	1.41E-06	2.04E-05	1.50E-05	1.50E-05	8.37E-06	2.14E-07	3.10E-06	2.34E-06	2.34E-06	1.29E-06	1.16E-07	1.68E-06	1.04E-06	1.04E-06	5.16E-07
1507	257624	4083651	1.39E-06	2.01E-05	1.48E-05	1.48E-05	8.26E-06	2.11E-07	3.06E-06	2.31E-06	2.31E-06	1.27E-06	1.15E-07	1.66E-06	1.03E-06	1.03E-06	5.09E-07
1508	257599.7	4083652	1.37E-06	1.99E-05	1.46E-05	1.46E-05	8.16E-06	2.08E-07	3.03E-06	2.29E-06	2.29E-06	1.26E-06	1.13E-07	1.64E-06	1.02E-06	1.02E-06	5.03E-07
1509	257575.3	4083653	1.36E-06	1.96E-05	1.45E-05	1.45E-05	8.06E-06	2.06E-07	2.99E-06	2.26E-06	2.26E-06	1.24E-06	1.12E-07	1.62E-06	1.00E-06	1.00E-06	4.97E-07
1510	257551	4083654	1.34E-06	1.94E-05	1.43E-05	1.43E-05	7.96E-06	2.03E-07	2.95E-06	2.23E-06	2.23E-06	1.23E-06	1.10E-07	1.60E-06	9.92E-07	9.92E-07	4.91E-07
1511	257526.7	4083655	1.33E-06	1.92E-05	1.41E-05	1.41E-05	7.88E-06	2.01E-07	2.92E-06	2.21E-06	2.21E-06	1.21E-06	1.09E-07	1.58E-06	9.82E-07	9.82E-07	4.86E-07
1512	257502.3	4083656	1.31E-06	1.89E-05	1.40E-05	1.40E-05	7.78E-06	1.99E-07	2.89E-06	2.18E-06	2.18E-06	1.20E-06	1.08E-07	1.56E-06	9.70E-07	9.70E-07	4.80E-07
1513	258319.7	4083432	1.93E-06	2.79E-05	2.06E-05	2.06E-05	1.15E-05	2.93E-07	4.26E-06	3.22E-06	3.22E-06	1.77E-06	1.59E-07	2.30E-06	1.43E-06	1.43E-06	7.08E-07
1514	258342.3	4083440	2.00E-06	2.89E-05	2.13E-05	2.13E-05	1.19E-05	3.03E-07	4.40E-06	3.32E-06	3.32E-06	1.83E-06	1.65E-07	2.38E-06	1.48E-06	1.48E-06	7.32E-07
1515	258364.8	4083448	2.06E-06	2.98E-05	2.20E-05	2.20E-05	1.23E-05	3.13E-07	4.54E-06	3.43E-06	3.43E-06	1.89E-06	1.70E-07	2.46E-06	1.53E-06	1.53E-06	7.56E-07
1516	258387.4	4083457	2.13E-06	3.08E-05	2.27E-05	2.27E-05	1.27E-05	3.23E-07	4.70E-06	3.55E-06	3.55E-06	1.95E-06	1.76E-07	2.54E-06	1.58E-06	1.58E-06	7.81E-07
1517	258410	4083465	2.20E-06	3.19E-05	2.35E-05	2.35E-05	1.31E-05	3.35E-07	4.86E-06	3.67E-06	3.67E-06	2.02E-06	1.82E-07	2.63E-06	1.63E-06	1.63E-06	8.08E-07
1518	258432.6	4083474	2.28E-06	3.30E-05	2.44E-05	2.44E-05	1.36E-05	3.47E-07	5.03E-06	3.80E-06	3.80E-06	2.09E-06	1.88E-07	2.72E-06	1.69E-06	1.69E-06	8.38E-07
1519	258455.2	4083482	2.37E-06	3.42E-05	2.52E-05	2.52E-05	1.41E-05	3.59E-07	5.21E-06	3.94E-06	3.94E-06	2.17E-06	1.95E-07	2.82E-06	1.75E-06	1.75E-06	8.68E-07
1520	258477.8	4083490	2.45E-06	3.55E-05	2.62E-05	2.62E-05	1.46E-05	3.73E-07	5.41E-06	4.09E-06	4.09E-06	2.25E-06	2.02E-07	2.93E-06	1.82E-06	1.82E-06	9.00E-07
1521	258500.4	4083499	2.55E-06	3.68E-05	2.72E-05	2.72E-05	1.51E-05	3.87E-07	5.61E-06	4.24E-06	4.24E-06	2.33E-06	2.10E-07	3.04E-06	1.89E-06	1.89E-06	9.34E-07
1522	258523	4083507	2.65E-06	3.83E-05	2.82E-05	2.82E-05	1.57E-05	4.02E-07	5.83E-06	4.41E-06	4.41E-06	2.42E-06	2.18E-07	3.16E-06	1.96E-06	1.96E-06	9.70E-07
1523	258545.6	4083515	2.75E-06	3.98E-05	2.94E-05	2.94E-05	1.64E-05	4.18E-07	6.07E-06	4.58E-06	4.58E-06	2.52E-06	2.27E-07	3.28E-06	2.04E-06	2.04E-06	1.01E-06
1524	258568.2	4083524	2.87E-06	4.15E-05	3.06E-05	3.06E-05	1.70E-05	4.35E-07	6.32E-06	4.77E-06	4.77E-06	2.62E-06	2.36E-07	3.42E-06	2.12E-06	2.12E-06	1.05E-06
1525	258590.8	4083532	2.99E-06	4.32E-05	3.18E-05	3.18E-05	1.78E-05	4.53E-07	6.58E-06	4.97E-06	4.97E-06	2.73E-06	2.46E-07	3.56E-06	2.21E-06	2.21E-06	1.10E-06
1526	258613.3	4083540	3.12E-06	4.51E-05	3.32E-05	3.32E-05	1.85E-05	4.73E-07	6.87E-06	5.19E-06	5.19E-06	2.85E-06	2.57E-07	3.72E-06	2.31E-06	2.31E-06	1.14E-06
1527	258635.9	4083549	3.25E-06	4.71E-05	3.47E-05	3.47E-05	1.93E-05	4.94E-07	7.17E-06	5.42E-06	5.42E-06	2.98E-06	2.68E-07	3.88E-06	2.41E-06	2.41E-06	1.19E-06
1528	258658.5	4083557	3.40E-06	4.92E-05	3.63E-05	3.63E-05	2.02E-05	5.16E-07	7.49E-06	5.66E-06	5.66E-06	3.11E-06	2.80E-07	4.06E-06	2.52E-06	2.52E-06	1.25E-06
1529	258681.1	4083566	3.56E-06	5.15E-05	3.79E-05	3.79E-05	2.11E-05	5.40E-07	7.84E-06	5.92E-06	5.92E-06	3.26E-06	2.93E-07	4.24E-06	2.63E-06	2.63E-06	1.30E-06
1530	258703.7	4083574	3.72E-06	5.38E-05	3.96E-05	3.96E-05	2.21E-05	5.64E-07	8.19E-06	6.19E-06	6.19E-06	3.40E-06	3.07E-07	4.43E-06	2.75E-06	2.75E-06	1.36E-06
1531	258726.3	4083582	3.89E-06	5.63E-05	4.15E-05	4.15E-05	2.31E-05	5.91E-07	8.57E-06	6.48E-06	6.48E-06	3.56E-06	3.21E-07	4.64E-06	2.88E-06	2.88E-06	1.43E-06
1532	258748.9	4083591	4.07E-06	5.89E-05	4.34E-05	4.34E-05	2.42E-05	6.18E-07	8.97E-06	6.77E-06	6.77E-06	3.72E-06	3.35E-07	4.85E-06	3.01E-06	3.01E-06	1.49E-06
1533	258771.5	4083599	4.25E-06	6.15E-05	4.53E-05	4.53E-05	2.53E-05	6.46E-07	9.37E-06	7.08E-06	7.08E-06	3.89E-06	3.51E-07	5.07E-06	3.15E-06	3.15E-06	1.56E-06
1534	258794.1	4083607	4.45E-06	6.43E-05	4.74E-05	4.74E-05	2.64E-05	6.75E-07	9.80E-06	7.40E-06	7.40E-06	4.07E-06	3.67E-07	5.30E-06	3.29E-06	3.29E-06	1.63E-06
1535	258816.7	4083616	4.65E-06	6.72E-05	4.95E-05	4.95E-05	2.76E-05	7.05E-07	1.02E-05	7.73E-06	7.73E-06	4.25E-06	3.83E-07	5.54E-06	3.44E-06	3.44E-06	1.70E-06
1536	258839.3	4083624	4.85E-06	7.02E-05	5.17E-05	5.17E-05	2.88E-05	7.36E-07	1.07E-05	8.07E-06	8.07E-06	4.44E-06	4.00E-07	5.78E-06	3.59E-06	3.59E-06	1.78E-06
1537	258861.8	4083632	5.06E-06	7.32E-05	5.39E-05	5.39E-05	3.01E-05	7.68E-07	1.11E-05	8.42E-06	8.42E-06	4.63E-06	4.17E-07	6.03E-06	3.75E-06	3.75E-06	1.85E-06
1538	258884.4	4083641	5.27E-06	7.63E-05	5.62E-05	5.62E-05	3.13E-05	8.00E-07	1.16E-05	8.78E-06	8.78E-06	4.83E-06	4.35E-07	6.29E-06	3.91E-06	3.91E-06	1.93E-06
1539	258907	4083649	5.49E-06	7.95E-05	5.86E-05	5.86E-05	3.27E-05	8.34E-07	1.21E-05	9.14E-06	9.14E-06	5.03E-06	4.53E-07	6.55E-06	4.07E-06	4.07E-06	2.01E-06
1540	258929.6	4083658	5.72E-06	8.27E-05	6.10E-05	6.10E-05	3.40E-05	8.68E-07	1.26E-05	9.52E-06	9.52E-06	5.23E-06	4.71E-07	6.82E-06	4.24E-06	4.24E-06	2.10E-06
1541	258952.2	4083666	5.95E-06	8.60E-05	6.34E-05	6.34E-05	3.53E-05	9.02E-07	1.31E-05	9.90E-06	9.90E-06	5.44E-06	4.90E-07	7.09E-06	4.40E-06	4.40E-06	2.18E-06

1542	258974.8	4083674	6.18E-06	8.94E-05	6.59E-05	6.59E-05	3.67E-05	9.38E-07	1.36E-05	1.03E-05	1.03E-05	5.65E-06	5.09E-07	7.37E-06	4.58E-06	4.58E-06	2.26E-06
1543	258997.4	4083683	6.41E-06	9.27E-05	6.84E-05	6.84E-05	3.81E-05	9.73E-07	1.41E-05	1.07E-05	1.07E-05	5.87E-06	5.29E-07	7.64E-06	4.75E-06	4.75E-06	2.35E-06
1544	259020	4083691	6.65E-06	9.61E-05	7.09E-05	7.09E-05	3.95E-05	1.01E-06	1.46E-05	1.11E-05	1.11E-05	6.08E-06	5.48E-07	7.92E-06	4.92E-06	4.92E-06	2.44E-06
1545	259042.6	4083699	6.88E-06	9.96E-05	7.34E-05	7.34E-05	4.09E-05	1.04E-06	1.52E-05	1.15E-05	1.15E-05	6.30E-06	5.67E-07	8.21E-06	5.10E-06	5.10E-06	2.52E-06
1546	259065.2	4083708	7.12E-06	1.03E-04	7.59E-05	7.59E-05	4.23E-05	1.08E-06	1.57E-05	1.18E-05	1.18E-05	6.51E-06	5.87E-07	8.48E-06	5.27E-06	5.27E-06	2.61E-06
1547	259087.8	4083716	7.35E-06	1.06E-04	7.83E-05	7.83E-05	4.37E-05	1.12E-06	1.62E-05	1.22E-05	1.22E-05	6.72E-06	6.06E-07	8.76E-06	5.44E-06	5.44E-06	2.69E-06
1548	259110.3	4083724	7.58E-06	1.10E-04	8.08E-05	8.08E-05	4.50E-05	1.15E-06	1.67E-05	1.26E-05	1.26E-05	6.93E-06	6.25E-07	9.03E-06	5.61E-06	5.61E-06	2.78E-06
1549	259132.9	4083733	7.80E-06	1.13E-04	8.32E-05	8.32E-05	4.64E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.14E-06	6.43E-07	9.30E-06	5.78E-06	5.78E-06	2.86E-06
1550	259155.5	4083741	8.02E-06	1.16E-04	8.55E-05	8.55E-05	4.76E-05	1.22E-06	1.77E-05	1.33E-05	1.33E-05	7.34E-06	6.61E-07	9.56E-06	5.94E-06	5.94E-06	2.94E-06
1551	259178.1	4083750	8.22E-06	1.19E-04	8.77E-05	8.77E-05	4.89E-05	1.25E-06	1.81E-05	1.37E-05	1.37E-05	7.52E-06	6.78E-07	9.80E-06	6.09E-06	6.09E-06	3.01E-06
1552	259200.7	4083758	8.42E-06	1.22E-04	8.98E-05	8.98E-05	5.00E-05	1.28E-06	1.86E-05	1.40E-05	1.40E-05	7.70E-06	6.94E-07	1.00E-05	6.24E-06	6.24E-06	3.09E-06
1553	259223.3	4083766	8.60E-06	1.24E-04	9.17E-05	9.17E-05	5.11E-05	1.31E-06	1.90E-05	1.43E-05	1.43E-05	7.87E-06	7.09E-07	1.03E-05	6.37E-06	6.37E-06	3.15E-06
1554	259245.9	4083775	8.77E-06	1.27E-04	9.35E-05	9.35E-05	5.21E-05	1.33E-06	1.93E-05	1.46E-05	1.46E-05	8.03E-06	7.23E-07	1.05E-05	6.50E-06	6.50E-06	3.22E-06
1555	259268.5	4083783	8.92E-06	1.29E-04	9.51E-05	9.51E-05	5.30E-05	1.35E-06	1.97E-05	1.49E-05	1.49E-05	8.17E-06	7.36E-07	1.06E-05	6.61E-06	6.61E-06	3.27E-06
1556	259291.1	4083791	9.06E-06	1.31E-04	9.66E-05	9.66E-05	5.39E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.29E-06	7.47E-07	1.08E-05	6.71E-06	6.71E-06	3.32E-06
1557	259313.7	4083800	9.18E-06	1.33E-04	9.79E-05	9.79E-05	5.46E-05	1.39E-06	2.02E-05	1.53E-05	1.53E-05	8.40E-06	7.57E-07	1.09E-05	6.80E-06	6.80E-06	3.37E-06
1558	259336.3	4083808	9.29E-06	1.34E-04	9.90E-05	9.90E-05	5.52E-05	1.41E-06	2.05E-05	1.55E-05	1.55E-05	8.50E-06	7.66E-07	1.11E-05	6.88E-06	6.88E-06	3.40E-06
1559	259358.8	4083816	9.38E-06	1.36E-04	1.00E-04	1.00E-04	5.57E-05	1.42E-06	2.07E-05	1.56E-05	1.56E-05	8.58E-06	7.73E-07	1.12E-05	6.95E-06	6.95E-06	3.44E-06
1560	259391.4	4083847	9.69E-06	1.40E-04	1.03E-04	1.03E-04	5.76E-05	1.47E-06	2.13E-05	1.61E-05	1.61E-05	8.87E-06	7.99E-07	1.16E-05	7.17E-06	7.17E-06	3.55E-06
1561	259401.3	4083869	9.92E-06	1.43E-04	1.06E-04	1.06E-04	5.89E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.08E-06	8.18E-07	1.18E-05	7.34E-06	7.34E-06	3.64E-06
1562	259411.2	4083891	1.01E-05	1.47E-04	1.08E-04	1.08E-04	6.02E-05	1.54E-06	2.23E-05	1.69E-05	1.69E-05	9.27E-06	8.35E-07	1.21E-05	7.51E-06	7.51E-06	3.72E-06
1563	259421.2	4083913	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.46E-06	8.52E-07	1.23E-05	7.65E-06	7.65E-06	3.79E-06
1564	259431.1	4083935	1.05E-05	1.52E-04	1.12E-04	1.12E-04	6.25E-05	1.60E-06	2.32E-05	1.75E-05	1.75E-05	9.63E-06	8.67E-07	1.25E-05	7.79E-06	7.79E-06	3.86E-06
1565	259441	4083956	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.35E-05	1.62E-06	2.36E-05	1.78E-05	1.78E-05	9.78E-06	8.81E-07	1.27E-05	7.92E-06	7.92E-06	3.92E-06
1566	259450.9	4083978	1.08E-05	1.57E-04	1.15E-04	1.15E-04	6.44E-05	1.64E-06	2.39E-05	1.80E-05	1.80E-05	9.91E-06	8.93E-07	1.29E-05	8.02E-06	8.02E-06	3.97E-06
1567	259460.9	4084000	1.10E-05	1.59E-04	1.17E-04	1.17E-04	6.51E-05	1.66E-06	2.41E-05	1.82E-05	1.82E-05	1.00E-05	9.03E-07	1.31E-05	8.12E-06	8.12E-06	4.02E-06
1568	259470.8	4084022	1.11E-05	1.60E-04	1.18E-04	1.18E-04	6.57E-05	1.68E-06	2.44E-05	1.84E-05	1.84E-05	1.01E-05	9.12E-07	1.32E-05	8.19E-06	8.19E-06	4.05E-06
1569	259480.7	4084044	1.11E-05	1.61E-04	1.19E-04	1.19E-04	6.62E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.18E-07	1.33E-05	8.25E-06	8.25E-06	4.08E-06
1570	259490.7	4084066	1.12E-05	1.62E-04	1.19E-04	1.19E-04	6.65E-05	1.70E-06	2.47E-05	1.86E-05	1.86E-05	1.02E-05	9.22E-07	1.33E-05	8.29E-06	8.29E-06	4.10E-06
1571	259500.6	4084088	1.12E-05	1.62E-04	1.20E-04	1.20E-04	6.67E-05	1.70E-06	2.47E-05	1.87E-05	1.87E-05	1.03E-05	9.24E-07	1.34E-05	8.31E-06	8.31E-06	4.11E-06
1572	259510.5	4084110	1.12E-05	1.62E-04	1.20E-04	1.20E-04	6.66E-05	1.70E-06	2.47E-05	1.87E-05	1.87E-05	1.03E-05	9.24E-07	1.34E-05	8.30E-06	8.30E-06	4.11E-06
1573	259520.4	4084132	1.12E-05	1.62E-04	1.19E-04	1.19E-04	6.65E-05	1.70E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.22E-07	1.33E-05	8.28E-06	8.28E-06	4.10E-06
1574	259530.4	4084154	1.11E-05	1.61E-04	1.19E-04	1.19E-04	6.61E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.17E-07	1.33E-05	8.24E-06	8.24E-06	4.08E-06
1575	259540.3	4084176	1.10E-05	1.60E-04	1.18E-04	1.18E-04	6.56E-05	1.68E-06	2.43E-05	1.84E-05	1.84E-05	1.01E-05	9.10E-07	1.32E-05	8.18E-06	8.18E-06	4.05E-06
1576	259550.2	4084198	1.09E-05	1.58E-04	1.17E-04	1.17E-04	6.50E-05	1.66E-06	2.41E-05	1.82E-05	1.82E-05	1.00E-05	9.01E-07	1.30E-05	8.10E-06	8.10E-06	4.01E-06
1577	259560.2	4084220	1.08E-05	1.56E-04	1.15E-04	1.15E-04	6.42E-05	1.64E-06	2.38E-05	1.80E-05	1.80E-05	9.89E-06	8.91E-07	1.29E-05	8.00E-06	8.00E-06	3.96E-06
1578	259570.1	4084242	1.07E-05	1.54E-04	1.14E-04	1.14E-04	6.33E-05	1.62E-06	2.35E-05	1.77E-05	1.77E-05	9.75E-06	8.78E-07	1.27E-05	7.89E-06	7.89E-06	3.91E-06
1579	259580	4084264	1.05E-05	1.52E-04	1.12E-04	1.12E-04	6.23E-05	1.59E-06	2.31E-05	1.75E-05	1.75E-05	9.60E-06	8.65E-07	1.25E-05	7.77E-06	7.77E-06	3.85E-06
1580	259590	4084286	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.13E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.44E-06	8.50E-07	1.23E-05	7.64E-06	7.64E-06	3.78E-06
1581	259599.9	4084308	1.01E-05	1.46E-04	1.08E-04	1.08E-04	6.02E-05	1.54E-06	2.23E-05	1.69E-05	1.69E-05	9.27E-06	8.35E-07	1.21E-05	7.50E-06	7.50E-06	3.71E-06
1582	259609.8	4084330	9.94E-06	1.44E-04	1.06E-04	1.06E-04	5.91E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.09E-06	8.19E-07	1.18E-05	7.36E-06	7.36E-06	3.64E-06
1583	259619.7	4084352	9.75E-06	1.41E-04	1.04E-04	1.04E-04	5.80E-05	1.48E-06	2.15E-05	1.62E-05	1.62E-05	8.92E-06	8.04E-07	1.16E-05	7.22E-06	7.22E-06	3.57E-06
1584	259629.7	4084374	9.57E-06	1.38E-04	1.02E-04	1.02E-04	5.69E-05	1.45E-06	2.11E-05	1.59E-05	1.59E-05	8.75E-06	7.89E-07	1.14E-05	7.09E-06	7.09E-06	3.51E-06
1585	259639.6	4084395	9.39E-06	1.36E-04	1.00E-04	1.00E-04	5.58E-05	1.42E-06	2.07E-05	1.56E-05	1.56E-05	8.59E-06	7.74E-07	1.12E-05	6.95E-06	6.95E-06	3.44E-06
1586	259649.5	4084417	9.25E-06	1.34E-04	9.86E-05	9.86E-05	5.49E-05	1.40E-06	2.04E-05	1.54E-05	1.54E-05	8.46E-06	7.62E-07	1.10E-05	6.85E-06	6.85E-06	3.39E-06
1587	259659.5	4084439	9.07E-06	1.31E-04	9.67E-05	9.67E-05	5.39E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.30E-06	7.48E-07	1.08E-05	6.72E-06	6.72E-06	3.32E-06
1588	259669.4	4084461	8.89E-06	1.29E-04	9.48E-05	9.48E-05	5.28E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.14E-06	7.33E-07	1.06E-05	6.58E-06	6.58E-06	3.26E-06
1589	259679.3	4084483	8.70E-06	1.26E-04	9.27E-05	9.27E-05	5.17E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.96E-06	7.17E-07	1.04E-05	6.44E-06	6.44E-06	3.19E-06
1590	259689.2	4084505	8.50E-06	1.23E-04	9.06E-05	9.06E-05	5.05E-05	1.29E-06	1.87E-05	1.41E-05	1.41E-05	7.77E-06	7.00E-07	1.01E-05	6.29E-06	6.29E-06	3.11E-06
1591	259699.2	4084527	8.28E-06	1.20E-04	8.82E-05	8.82E-05	4.92E-05	1.26E-06	1.82E-05	1.38E-05	1.38E-05	7.57E-06	6.82E-07	9.87E-06	6.13E-06	6.13E-06	3.03E-06
1592	259709.1	4084549	8.04E-06	1.16E-04	8.57E-05	8.57E-05	4.78E-05	1.22E-06	1.77E-05	1.34E-05	1.34E-05	7.36E-06	6.63E-07	9.58E-06	5.95E-06	5.95E-06	2.95E-06
1593	259719	4084571	7.79E-06	1.13E-04	8.30E-05	8.30E-05	4.63E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.13E-06	6.42E-07	9.28E-06	5.77E-06	5.77E-06	2.85E-06
1594	259729	4084593	7.52E-06	1.09E-04	8.02E-05	8.02E-05	4.47E-05	1.14E-06	1.66E-05	1.25E-05	1.25E-05	6.89E-06	6.20E-07	8.97E-06	5.57E-06	5.57E-06	2.76E-06
1595	259738.9	4084615	7.26E-06	1.05E-04	7.74E-05	7.74E-05	4.32E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.65E-06	5.99E-07	8.66E-06	5.38E-06	5.38E-06	2.66E-06
1596	259748.8	4084637	7.00E-06	1.01E-04	7.47E-05	7.47E-05	4.16E-05	1.06E-06	1.54E-05	1.17E-05	1.17E-05	6.41E-06	5.77E-07	8.35E-06	5.19E-06	5.19E-06	2.57E-06
1597	259758.8	4084659	6.76E-06	9.78E-05	7.21E-05	7.21E-05	4.02E-05	1.03E-06	1.49E-05	1.13E-05	1.13E-05	6.19E-06	5.57E-07	8.06E-06	5.01E-06	5.01E-06	2.48E-06
1598	259768.7	4084681	6.54E-06	9.46E-05	6.97E-05	6.97E-05	3.89E-05	9.92E-07	1.44E-05	1.09E-05	1.09E-05	5.98E-06	5.39E-07	7.80E-06	4.84E-06	4.84E-06	2.40E-06
1599	259778.6	4084703	6.34E-06	9.17E-05	6.76E-05	6.76E-05	3.77E-05	9.62E-07	1.40E-05	1.05E-05	1.05E-05	5.80E-06	5.22E-07	7.56E-06	4.69E-06	4.69E-06	2.32E-06
1600	259788.5	4084725	6.16E-06	8.91E-05	6.56E-05	6.56E-05	3.66E-05	9.35E-07	1.36E-05	1.02E-05	1.02E-05	5.63E-06	5.08E-07	7.34E-06	4.56E-06	4.56E-06	2.26E-06
1601	259798.5	4084747	5.99E-06	8.67E-05	6.39E-05	6.39E-05	3.56E-05	9.09E-07	1.32E-05	9.97E-06	9.97E-06	5.48E-06	4.94E-07	7.14E-06	4.44E-06	4.44E-06	2.20E-06
1602	259808.4	4084769	5.84E-06	8.44E-05	6.22E-05	6.22E-05	3.47E-05	8.86E-07	1.29E-05	9.71E-06	9.71E-06	5.34E-06	4.81E-07	6.96E-06	4.32E-06	4.32E-06	2.14E-06
1603	259818.3	4084791	5.68E-06	8.22E-05	6.06E-05	6.06E-05	3.38E-05	8.63E-07	1.25E-05	9.46E-06	9.46E-06	5.20E-06	4.69E-07	6.78E-06	4.21E-06	4.21E-06	2.08E-06
1604	259828.3	4084812	5.53E-06	8.00E-05	5.90E-05	5.90E-05	3.29E-05	8.39E-07	1.22E-05	9.21E-06	9.21E-06	5.06E-06	4.56E-07	6.59E-06	4.10E-06	4.10E-06	2.03E-06
1605	259838.2	4084834	5.37E-06	7.77E-05	5.73E-05	5.73E-05	3.19E-05	8.15E-07	1.18E-05	8.94E-06	8.94E-06	4.92E-06	4.43E-07	6.41E-06	3.98E-06	3.98E-06	1.97E-06
1606	259848.1	4084856	5.21E-06	7.53E-05	5.55E-05	5.55E-05	3.10E-05	7.91E-07	1.15E-05	8.67E-06	8.67E-06	4.77E-06	4.29E-07	6.21E-06	3.86E-06	3.86E-06	1.91E-06
1607	258297.1	4083423	1.87E-06	2.71E-05	2.00E-05	2.00E-05	1.11E-05	2.85E-07	4.13E-06	3.12E-06	3.12E-06	1.72E-06	1.55E-07	2.24E-06	1.39E-06	1.39E-06	6.87E-07
1608	258272.7	4083424	1.84E-06	2.66E-05	1.96E-05	1.96E-05	1.09E-05	2.79E-07	4.05E-06	3.06E-06	3.06E-06	1.68E-06	1.52E-07	2.19E-06	1.36E-06	1.36E-06	6.74E-07
1609	258248.4	4083425	1.80E-06	2.61E-05	1.92E-05	1.92E-05	1.07E-05	2.74E-07	3.97E-06	3.00E-06	3.00E-06	1.65E-06	1.49E-07	2.15E-06	1.34E-06	1.34E-06	6.61E-07
1610	258224.1	4083426	1.77E-06	2.56E-05	1.89E-05	1.89E-05	1.05E-05	2.69E-07	3.90E-06	2.95E-06	2.95E-06	1.62E-06	1.46E-07	2.11E-06	1.31E-06	1.31E-06	6.49E-07
1611	258199.7	4083427	1.74E-06	2.51E-05	1.85E-05	1.85E-05	1.03E-05	2.64E-07	3.83E-06	2.89E-06	2.89E-06	1.59E-06	1.43E-07	2.07E-06	1.29E-06	1.29E-06	6.37E-07
1612	258175.4	4083428	1.71E-06	2.47E-05	1.82E-05	1.82E-05	1.01E-05	2.59E-07	3.76E-06	2.84E-06	2.84E-06	1.56E-06	1.41E-07	2.04E-06	1.26E-06	1.26E-06	6.26E-07
1613	258151.1	4083429	1.68E-06	2.42E-05	1.79E-05	1.79E-05	9.96E-06	2.54E-07	3.69E-06	2.79E-06	2.79E-06	1.53E-06	1.38E-07	2.00E-06	1.24E-06	1.24E-06	6.14E-07
1614	258126.7	4083430	1.65E-06	2.38E-05	1.75E-05	1.75E-05	9.78E-06	2.50E-07	3.63E-06	2.74E-06	2.74E-06	1.51E-06	1.36E-07	1.96E-06	1.22E-06	1.22E-06	6.03E-07
1615	258102.4	4083431	1.61E-06	2.34E-05	1.72E-05	1.72E-05	9.60E-06	2.45E-07	3.56E-06	2.69E-06	2.69E-06	1.48E-06	1.33E-07	1.93E-06	1.20E-06	1.20E-06	5.92E-07
1616	258078.1	4083432	1.58E-06	2.29E-05	1.69E-05	1.69E-05	9.41E-06	2.40E-07	3.49E-06	2.64E-06	2.64E-06	1.45E-06	1.31E-07	1.89E-06	1.17E-06	1.17E-06	5.81E-07
1617	258053.8	4083433	1.56E-06	2.25E-05	1.66E-05	1.66E-05	9.24E-06	2.36E-07	3.43E-06	2.59E-06	2.59E-06	1.42E-06	1.28E-07	1.85E-06	1.15E-06	1.15E-06	5.70E-07
1618	258029.4	4083434	1.52E-06	2.21E-05	1.63E-05	1.63E-05	9.06E-06	2.31E-07	3.36E-06	2.54E-06	2.54E-06	1.40E-06	1.26E-07	1.82E-06	1.13E-06	1.13E-06	5.59E-07
1619	258005.1	4083435	1.50E-06	2.16E-05	1.59E-05	1.59E-05	8.89E-06	2.27E-07	3.30E-06	2.49E-06	2.49E-06	1.37E-06	1.23E-07	1.78E-06	1.11E-06	1.11E-06	5.48E-07
1620	257980.8	4083436	1.47E-06	2.12E-05	1.56E-05	1.56E-05	8.71E-06	2.22E-07	3.23E-06	2.44E-06	2.44E-06	1.34E-06	1.21E-07	1.75E-06	1.09E-06	1.09E-06	5.37E-07
1621	257956.4	4083437	1.44E-06	2.08E-05	1.53E-05	1.53E-05	8.54E-06	2.18E-07	3.17E-06	2.39E-06	2.39E-06	1.31E-06	1.18E-07	1.71E-06	1.06E-06	1.06E-06	5.27E-07
1622	257932.1	4083438	1.41E-06	2.04E-05	1.50E-05	1.50E-05	8.38E-06	2.14E-07	3.11E-06	2.35E-06	2.35E-06	1.29E-06	1.16E-07	1.68E-06	1.04E-06	1.04E-06	5.17E-07
1623	257907.8	4083439	1.38E-06	2.00E-05	1.47E-05	1.47E-05	8.21E-06	2.10E-07	3.04E-06	2.30E-06	2.30E-06	1.26E-06	1.14E-07	1.65E-06	1.02E-06	1.02E-06	5.06E-07
1624	257883.4	4083440	1.35E-06	1.96E-05	1.44E-05	1.44E-05	8.05E-06	2.06E-07	2.98E-06	2.25E-06	2.25E-06	1.24E-06	1.12E-07	1.61E-06	1.00E-06	1.00E-06	4.97E-07
1625	257859.1	4083441	1.33E-06	1.92E-05	1.42E-05	1.42E-05	7.90E-06	2.02E-07	2.93E-06	2.21E-06	2.21E-06	1.22E-06	1.10E-07	1.59E-06	9.85E-07	9.85E-07	4.87E-07
1626	257834.8	4083442	1.31E-06	1.89E-05	1.39E-05	1.39E-05	7.76E-06	1.98E-07	2.88E-06	2.17E-06	2.17E-06	1.19E-06	1.08E-07	1.56E-06	9.67E-07	9.67E-07	4.78E-07
1627	257810.4	4083443	1.28E-06	1.86E-05	1.37E-05	1.37E-05	7.62E-06	1.95E-07	2.83E-06	2.14E-06	2.14E-06	1.17E-06	1.06E-07	1.53E-06	9.50E-07	9.50E-07	4.70E-07
1628	257786.1	4083444	1.26E-06	1.82E-05	1.34E-05	1.34E-05	7.49E-06	1.91E-07	2.78E-06	2.10E-06	2.10E-06	1.15E-06	1.04E-07	1.50E-06	9.33E-07	9.33E-07	4.62E-07
1629	257761.8	4083445	1.24E-06	1.79E-05	1.32E-05	1.32E-05	7.37E-06	1.88E-07	2.73E-06	2.06E-06	2.06E-06	1.13E-06	1.02E-07	1.48E-06	9.18E-07	9.18E-07	4.54E-07
1630	257737.4	4083446	1.22E-06	1.76E-05	1.30E-05	1.30E-05	7.25E-06	1.85E-07	2.69E-06	2.03E-06	2.03E-06	1.12E-06	1.00E-07	1.45E-06	9.03E-07	9.03E-07	4.47E-07
1631	257713.1	4083447	1.20E-06	1.74E-05	1.28E-05	1.28E-05	7.14E-06	1.82E-07	2.65E-06	2.00E-06	2.00E-06	1.10E-06	9.90E-08	1.43E-06	8.89E-07	8.89E-07	4.40E-07
1632	257688.8	4083448	1.18E-06	1.71E-05	1.26E-05	1.26E-05	7.03E-06	1.79E-07	2.61E-06	1.97E-06	1.97E-06	1.08E-06	9.75E-08	1.41E-06	8.76E-07	8.76E-07	4.33E-07
1633	257664.4	4083449	1.17E-06	1.69E-05	1.24E-05	1.24E-05	6.93E-06	1.77E-07	2.57E-06	1.94E-06	1.94E-06	1.07E-06	9.61E-08	1.39E-06	8.63E-07	8.63E-07	4.27E-07
1634	257640.1	4083450	1.15E-06	1.66E-05	1.23E-05	1.23E-05	6.83E-06	1.74E-07	2.53E-06	1.91E-06	1.91E-06	1.05E-06	9.48E-08	1.37E-06	8.51E-07	8.51E-07	4.21E-07
1635	257615.8	4083451	1.13E-06	1.64E-05	1.21E-05	1.21E-05	6.73E-06	1.72E-07	2.50E-06	1.89E-06	1.89E-06	1.04E-06	9.34E-08	1.35E-06	8.39E-07	8.39E-07	4.15E-07
1636	257591.4	4083452	1.12E-06	1.62E-05	1.19E-05	1.19E-05	6.65E-06	1.70E-07	2.47E-06	1.86E-06	1.86E-06	1.02E-06	9.22E-08	1.33E-06	8.29E-07	8.29E-07	4.10E-07
1637	257567.1	4083453	1.10E-06	1.60E-05	1.18E-05	1.18E-05	6.56E-06	1.68E-07	2.43E-06	1.84E-06	1.84E-06	1.01E-06	9.10E-08	1.32E-06	8.18E-07	8.18E-07	4.05E-07
1638	257542.8	4083454	1.09E-06	1.58E-05	1.16E-05	1.16E-05	6.48E-06	1.65E-07	2.40E-06	1.81E-06	1.81E-06	9.98E-07	8.99E-08	1.30E-06	8.07E-07	8.07E-07	4.00E-07
1639	257518.5	4083455	1.08E-06	1.56E-05	1.15E-05	1.15E-05	6.39E-06	1.63E-07	2.37E-06	1.79E-06	1.79E-06	9.84E-07	8.87E-08	1.28E-06	7.97E-07	7.97E-07	3.94E-07
1640	257494.1	4083456	1.06E-06	1.54E-05	1.13E-05	1.13E-05	6.32E-06	1.61E-07	2.34E-06	1.77E-06	1.77E-06	9.73E-07	8.77E-08	1.27E-06	7.88E-07	7.88E-07	3.90E-07
1641	257530.8	4084956	8.13E-05	1.18E-03	8.67E-04	8.67E-04	4.83E-04	1.23E-05	1.79E-04	1.35E-04	1.35E-04	7.44E-05	6.70E-06	9.69E-05	6.02E-05	6.02E-05	2.98E-05
1642	257532.4	4085001	2.15E-04	3.12E-03	2.30E-03	2.30E-03	1.28E-03	3.27E-05	4.75E-04	3.59E-04	3.59E-04	1.97E-04	1.78E-05	2.57E-04	1.60E-04	1.60E-04	7.90E-05
1643	257534.1	4085045	3.42E-04	4.95E-03	3.65E-03	3.65E-03	2.03E-03	5.20E-05	7.54E-04	5.70E-04	5.70E-04	3.13E-04	2.82E-05	4.08E-04	2.54E-04	2.54E-04	1.25E-04
1644	257534.9	4085067	3.83E-04	5.54E-03	4.08E-03	4.08E-03	2.27E-03	5.81E-05	8.43E-04	6.37E-04	6.37E-04	3.50E-04	3.15E-05	4.56E-04	2.83E-04	2.83E-04	1.40E-04

1645	257536.5	4085112	4.30E-04	6.22E-03	4.59E-03	4.59E-03	2.56E-03	6.53E-05	9.48E-04	7.16E-04	7.16E-04	3.94E-04	3.55E-05	5.13E-04	3.19E-04	3.19E-04	1.58E-04
1646	257538.2	4085157	4.16E-04	6.02E-03	4.44E-03	4.44E-03	2.47E-03	6.32E-05	9.17E-04	6.93E-04	6.93E-04	3.81E-04	3.43E-05	4.96E-04	3.08E-04	3.08E-04	1.53E-04
1647	257512.4	4084939	5.09E-05	7.36E-04	5.42E-04	5.42E-04	3.02E-04	7.72E-06	1.12E-04	8.47E-05	8.47E-05	4.66E-05	4.19E-06	6.07E-05	3.77E-05	3.77E-05	1.86E-05
1648	257506.6	4084979	8.53E-05	1.23E-03	9.09E-04	9.09E-04	5.07E-04	1.29E-05	1.88E-04	1.42E-04	1.42E-04	7.81E-05	7.03E-06	1.02E-04	6.32E-05	6.32E-05	3.13E-05
1649	257508.2	4085024	1.63E-04	2.35E-03	1.74E-03	1.74E-03	9.68E-04	2.47E-05	3.59E-04	2.71E-04	2.71E-04	1.49E-04	1.34E-05	1.94E-04	1.21E-04	1.21E-04	5.97E-05
1650	257509.9	4085068	2.32E-04	3.36E-03	2.47E-03	2.47E-03	1.38E-03	3.52E-05	5.12E-04	3.86E-04	3.86E-04	2.12E-04	1.91E-05	2.77E-04	1.72E-04	1.72E-04	8.51E-05
1651	257511.5	4085113	2.74E-04	3.97E-03	2.93E-03	2.93E-03	1.63E-03	4.16E-05	6.05E-04	4.57E-04	4.57E-04	2.51E-04	2.26E-05	3.27E-04	2.03E-04	2.03E-04	1.01E-04
1652	257513.2	4085157	2.82E-04	4.07E-03	3.00E-03	3.00E-03	1.67E-03	4.28E-05	6.21E-04	4.69E-04	4.69E-04	2.58E-04	2.32E-05	3.36E-04	2.09E-04	2.09E-04	1.03E-04
1653	257487.4	4084940	4.20E-05	6.07E-04	4.47E-04	4.47E-04	2.49E-04	6.37E-06	9.25E-05	6.99E-05	6.99E-05	3.84E-05	3.46E-06	5.00E-05	3.11E-05	3.11E-05	1.54E-05
1654	257518	4084896	3.36E-05	4.86E-04	3.58E-04	3.58E-04	2.00E-04	5.10E-06	7.41E-05	5.60E-05	5.60E-05	3.08E-05	2.77E-06	4.01E-05	2.49E-05	2.49E-05	1.23E-05
1655	257481.6	4084980	6.30E-05	9.11E-04	6.71E-04	6.71E-04	3.74E-04	9.56E-06	1.39E-04	1.05E-04	1.05E-04	5.76E-05	5.19E-06	7.51E-05	4.66E-05	4.66E-05	2.31E-05
1656	257483.3	4085025	1.07E-04	1.55E-03	1.14E-03	1.14E-03	6.36E-04	1.62E-05	2.36E-04	1.78E-04	1.78E-04	9.79E-05	8.82E-06	1.28E-04	7.92E-05	7.92E-05	3.92E-05
1657	257484.9	4085069	1.56E-04	2.26E-03	1.66E-03	1.66E-03	9.27E-04	2.37E-05	3.44E-04	2.60E-04	2.60E-04	1.43E-04	1.29E-05	1.86E-04	1.15E-04	1.15E-04	5.72E-05
1658	257486.6	4085114	1.91E-04	2.77E-03	2.04E-03	2.04E-03	1.14E-03	2.90E-05	4.22E-04	3.18E-04	3.18E-04	1.75E-04	1.58E-05	2.28E-04	1.42E-04	1.42E-04	7.01E-05
1659	257488.2	4085158	2.05E-04	2.97E-03	2.19E-03	2.19E-03	1.22E-03	3.12E-05	4.52E-04	3.42E-04	3.42E-04	1.88E-04	1.69E-05	2.45E-04	1.52E-04	1.52E-04	7.53E-05
1660	257462.4	4084941	3.56E-05	5.15E-04	3.79E-04	3.79E-04	2.12E-04	5.40E-06	7.84E-05	5.92E-05	5.92E-05	3.26E-05	2.93E-06	4.24E-05	2.64E-05	2.64E-05	1.30E-05
1661	257475.7	4084905	2.84E-05	4.11E-04	3.03E-04	3.03E-04	1.69E-04	4.32E-06	6.27E-05	4.73E-05	4.73E-05	2.60E-05	2.34E-06	3.39E-05	2.11E-05	2.11E-05	1.04E-05
1662	257499.6	4084879	2.64E-05	3.81E-04	2.81E-04	2.81E-04	1.57E-04	4.00E-06	5.81E-05	4.39E-05	4.39E-05	2.41E-05	2.17E-06	3.14E-05	1.95E-05	1.95E-05	9.66E-06
1663	257456.6	4084981	5.00E-05	7.23E-04	5.33E-04	5.33E-04	2.97E-04	7.58E-06	1.10E-04	8.32E-05	8.32E-05	4.57E-05	4.12E-06	5.96E-05	3.70E-05	3.70E-05	1.83E-05
1664	257458.3	4085026	7.75E-05	1.12E-03	8.26E-04	8.26E-04	4.61E-04	1.18E-05	1.71E-04	1.29E-04	1.29E-04	7.09E-05	6.39E-06	9.24E-05	5.74E-05	5.74E-05	2.84E-05
1665	257459.1	4085048	9.46E-05	1.37E-03	1.01E-03	1.01E-03	5.63E-04	1.44E-05	2.09E-04	1.58E-04	1.58E-04	8.66E-05	7.80E-06	1.13E-04	7.01E-05	7.01E-05	3.47E-05
1666	257460.8	4085092	1.28E-04	1.85E-03	1.36E-03	1.36E-03	7.58E-04	1.94E-05	2.81E-04	2.12E-04	2.12E-04	1.17E-04	1.05E-05	1.52E-04	9.45E-05	9.45E-05	4.68E-05
1667	257462.4	4085137	1.50E-04	2.18E-03	1.60E-03	1.60E-03	8.94E-04	2.28E-05	3.31E-04	2.50E-04	2.50E-04	1.38E-04	1.24E-05	1.79E-04	1.11E-04	1.11E-04	5.51E-05
1668	257412.5	4084943	2.71E-05	3.92E-04	2.89E-04	2.89E-04	1.61E-04	4.11E-06	5.97E-05	4.51E-05	4.51E-05	2.48E-05	2.23E-06	3.23E-05	2.01E-05	2.01E-05	9.93E-06
1669	257425.7	4084907	2.25E-05	3.26E-04	2.40E-04	2.40E-04	1.34E-04	3.42E-06	4.97E-05	3.75E-05	3.75E-05	2.06E-05	1.86E-06	2.69E-05	1.67E-05	1.67E-05	8.26E-06
1670	257439	4084871	1.91E-05	2.76E-04	2.03E-04	2.03E-04	1.13E-04	2.90E-06	4.21E-05	3.18E-05	3.18E-05	1.75E-05	1.57E-06	2.28E-05	1.41E-05	1.41E-05	7.00E-06
1671	257462.9	4084845	1.80E-05	2.60E-04	1.92E-04	1.92E-04	1.07E-04	2.73E-06	3.96E-05	2.99E-05	2.99E-05	1.65E-05	1.48E-06	2.14E-05	1.33E-05	1.33E-05	6.59E-06
1672	257497.6	4084829	1.87E-05	2.70E-04	1.99E-04	1.99E-04	1.11E-04	2.83E-06	4.11E-05	3.11E-05	3.11E-05	1.71E-05	1.54E-06	2.22E-05	1.38E-05	1.38E-05	6.84E-06
1673	257406.7	4084983	3.52E-05	5.09E-04	3.75E-04	3.75E-04	2.09E-04	5.34E-06	7.75E-05	5.85E-05	5.85E-05	3.22E-05	2.90E-06	4.19E-05	2.60E-05	2.60E-05	1.29E-05
1674	257408.3	4085027	4.86E-05	7.03E-04	5.18E-04	5.18E-04	2.89E-04	7.38E-06	1.07E-04	8.09E-05	8.09E-05	4.45E-05	4.01E-06	5.79E-05	3.60E-05	3.60E-05	1.78E-05
1675	257410	4085072	6.61E-05	9.57E-04	7.05E-04	7.05E-04	3.93E-04	1.00E-05	1.46E-04	1.10E-04	1.10E-04	6.05E-05	5.45E-06	7.89E-05	4.90E-05	4.90E-05	2.42E-05
1676	257411.6	4085117	8.44E-05	1.22E-03	8.99E-04	8.99E-04	5.01E-04	1.28E-05	1.86E-04	1.40E-04	1.40E-04	7.72E-05	6.95E-06	1.01E-04	6.25E-05	6.25E-05	3.09E-05
1677	257413.3	4085161	9.78E-05	1.41E-03	1.04E-03	1.04E-03	5.81E-04	1.48E-05	2.16E-04	1.63E-04	1.63E-04	8.95E-05	8.06E-06	1.17E-04	7.24E-05	7.24E-05	3.59E-05
1678	257363.4	4084942	2.14E-05	3.10E-04	2.28E-04	2.28E-04	1.27E-04	3.25E-06	4.72E-05	3.56E-05	3.56E-05	1.96E-05	1.76E-06	2.55E-05	1.58E-05	1.58E-05	7.84E-06
1679	257378.6	4084901	1.79E-05	2.59E-04	1.91E-04	1.91E-04	1.06E-04	2.72E-06	3.94E-05	2.98E-05	2.98E-05	1.64E-05	1.48E-06	2.13E-05	1.33E-05	1.33E-05	6.56E-06
1680	257393.7	4084860	1.52E-05	2.20E-04	1.62E-04	1.62E-04	9.06E-05	2.31E-06	3.36E-05	2.54E-05	2.54E-05	1.39E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.59E-06
1681	257428.7	4084810	1.34E-05	1.93E-04	1.42E-04	1.42E-04	7.94E-05	2.03E-06	2.94E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.90E-06	9.90E-06	4.90E-06
1682	257468.3	4084792	1.38E-05	1.99E-04	1.47E-04	1.47E-04	8.19E-05	2.09E-06	3.04E-05	2.29E-05	2.29E-05	1.26E-05	1.14E-06	1.64E-05	1.02E-05	1.02E-05	5.05E-06
1683	257507.9	4084774	1.42E-05	2.06E-04	1.52E-04	1.52E-04	8.46E-05	2.16E-06	3.14E-05	2.37E-05	2.37E-05	1.30E-05	1.17E-06	1.70E-05	1.05E-05	1.05E-05	5.22E-06
1684	257356.7	4084985	2.69E-05	3.89E-04	2.87E-04	2.87E-04	1.60E-04	4.08E-06	5.93E-05	4.48E-05	4.48E-05	2.46E-05	2.22E-06	3.21E-05	1.99E-05	1.99E-05	9.86E-06
1685	257358.3	4085029	3.49E-05	5.04E-04	3.72E-04	3.72E-04	2.07E-04	5.29E-06	7.68E-05	5.80E-05	5.80E-05	3.19E-05	2.87E-06	4.16E-05	2.58E-05	2.58E-05	1.28E-05
1686	257360	4085074	4.46E-05	6.45E-04	4.75E-04	4.75E-04	2.65E-04	6.77E-06	9.82E-05	7.42E-05	7.42E-05	4.08E-05	3.68E-06	5.32E-05	3.30E-05	3.30E-05	1.63E-05
1687	257361.7	4085118	5.57E-05	8.06E-04	5.94E-04	5.94E-04	3.31E-04	8.46E-06	1.23E-04	9.28E-05	9.28E-05	5.10E-05	4.60E-06	6.65E-05	4.13E-05	4.13E-05	2.04E-05
1688	257363.3	4085163	6.59E-05	9.53E-04	7.03E-04	7.03E-04	3.92E-04	1.00E-05	1.45E-04	1.10E-04	1.10E-04	6.03E-05	5.43E-06	7.86E-05	4.88E-05	4.88E-05	2.42E-05
1689	257313.3	4084944	1.78E-05	2.57E-04	1.90E-04	1.90E-04	1.06E-04	2.70E-06	3.92E-05	2.96E-05	2.96E-05	1.63E-05	1.47E-06	2.12E-05	1.32E-05	1.32E-05	6.52E-06
1690	257328	4084905	1.52E-05	2.20E-04	1.62E-04	1.62E-04	9.04E-05	2.31E-06	3.35E-05	2.53E-05	2.53E-05	1.39E-05	1.25E-06	1.81E-05	1.13E-05	1.13E-05	5.58E-06
1691	257342.7	4084865	1.32E-05	1.91E-04	1.41E-04	1.41E-04	7.85E-05	2.00E-06	2.91E-05	2.20E-05	2.20E-05	1.21E-05	1.09E-06	1.57E-05	9.78E-06	9.78E-06	4.84E-06
1692	257357.5	4084825	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.91E-05	1.76E-06	2.56E-05	1.93E-05	1.93E-05	1.06E-05	9.58E-07	1.39E-05	8.60E-06	8.60E-06	4.26E-06
1693	257391.4	4084776	1.04E-05	1.51E-04	1.11E-04	1.11E-04	6.19E-05	1.58E-06	2.30E-05	1.73E-05	1.73E-05	9.53E-06	8.59E-07	1.24E-05	7.72E-06	7.72E-06	3.82E-06
1694	257429.9	4084759	1.07E-05	1.54E-04	1.14E-04	1.14E-04	6.34E-05	1.62E-06	2.35E-05	1.77E-05	1.77E-05	9.76E-06	8.79E-07	1.27E-05	7.90E-06	7.90E-06	3.91E-06
1695	257468.5	4084741	1.09E-05	1.58E-04	1.16E-04	1.16E-04	6.48E-05	1.65E-06	2.40E-05	1.81E-05	1.81E-05	9.97E-06	8.98E-07	1.30E-05	8.07E-06	8.07E-06	3.99E-06
1696	257507	4084723	1.12E-05	1.62E-04	1.19E-04	1.19E-04	6.65E-05	1.70E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.22E-07	1.33E-05	8.28E-06	8.28E-06	4.10E-06
1697	257306.7	4084987	2.17E-05	3.13E-04	2.31E-04	2.31E-04	1.29E-04	3.29E-06	4.77E-05	3.61E-05	3.61E-05	1.98E-05	1.79E-06	2.58E-05	1.60E-05	1.60E-05	7.94E-06
1698	257307.6	4085009	2.42E-05	3.50E-04	2.58E-04	2.58E-04	1.44E-04	3.68E-06	5.34E-05	4.03E-05	4.03E-05	2.22E-05	2.00E-06	2.89E-05	1.79E-05	1.79E-05	8.88E-06
1699	257309.2	4085053	2.98E-05	4.31E-04	3.18E-04	3.18E-04	1.77E-04	4.52E-06	6.56E-05	4.96E-05	4.96E-05	2.73E-05	2.46E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
1700	257310.9	4085098	3.62E-05	5.24E-04	3.86E-04	3.86E-04	2.15E-04	5.49E-06	7.98E-05	6.03E-05	6.03E-05	3.31E-05	2.98E-06	4.32E-05	2.68E-05	2.68E-05	1.33E-05
1701	257312.5	4085143	4.33E-05	6.27E-04	4.62E-04	4.62E-04	2.58E-04	6.58E-06	9.55E-05	7.21E-05	7.21E-05	3.96E-05	3.57E-06	5.17E-05	3.21E-05	3.21E-05	1.59E-05
1702	257263.2	4084947	1.52E-05	2.19E-04	1.62E-04	1.62E-04	9.01E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.81E-05	1.12E-05	1.12E-05	5.56E-06
1703	257277.6	4084908	1.32E-05	1.90E-04	1.40E-04	1.40E-04	7.82E-05	2.00E-06	2.90E-05	2.19E-05	2.19E-05	1.20E-05	1.08E-06	1.57E-05	9.74E-06	9.74E-06	4.82E-06
1704	257292.1	4084869	1.16E-05	1.67E-04	1.23E-04	1.23E-04	6.87E-05	1.75E-06	2.55E-05	1.92E-05	1.92E-05	1.06E-05	9.53E-07	1.38E-05	8.56E-06	8.56E-06	4.24E-06
1705	257306.6	4084829	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.12E-05	1.56E-06	2.27E-05	1.71E-05	1.71E-05	9.42E-06	8.49E-07	1.23E-05	7.63E-06	7.63E-06	3.78E-06
1706	257321	4084790	9.25E-06	1.34E-04	9.86E-05	9.86E-05	5.50E-05	1.40E-06	2.04E-05	1.54E-05	1.54E-05	8.47E-06	7.63E-07	1.10E-05	6.85E-06	6.85E-06	3.39E-06
1707	257354.4	4084743	8.42E-06	1.22E-04	8.98E-05	8.98E-05	5.00E-05	1.28E-06	1.86E-05	1.40E-05	1.40E-05	7.70E-06	6.94E-07	1.00E-05	6.24E-06	6.24E-06	3.09E-06
1708	257392.2	4084725	8.57E-06	1.24E-04	9.14E-05	9.14E-05	5.10E-05	1.30E-06	1.89E-05	1.43E-05	1.43E-05	7.85E-06	7.07E-07	1.02E-05	6.35E-06	6.35E-06	3.14E-06
1709	257430	4084708	8.71E-06	1.26E-04	9.29E-05	9.29E-05	5.18E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.97E-06	7.18E-07	1.04E-05	6.45E-06	6.45E-06	3.19E-06
1710	257467.8	4084690	8.86E-06	1.28E-04	9.45E-05	9.45E-05	5.27E-05	1.35E-06	1.95E-05	1.48E-05	1.48E-05	8.11E-06	7.31E-07	1.06E-05	6.56E-06	6.56E-06	3.25E-06
1711	257505.6	4084673	9.07E-06	1.31E-04	9.67E-05	9.67E-05	5.39E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.30E-06	7.47E-07	1.08E-05	6.71E-06	6.71E-06	3.32E-06
1712	257256.8	4084988	1.81E-05	2.61E-04	1.93E-04	1.93E-04	1.07E-04	2.74E-06	3.98E-05	3.01E-05	3.01E-05	1.65E-05	1.49E-06	2.15E-05	1.34E-05	1.34E-05	6.62E-06
1713	257258.4	4085033	2.18E-05	3.15E-04	2.33E-04	2.33E-04	1.30E-04	3.31E-06	4.81E-05	3.63E-05	3.63E-05	2.00E-05	1.80E-06	2.60E-05	1.62E-05	1.62E-05	8.00E-06
1714	257260.1	4085078	2.58E-05	3.72E-04	2.75E-04	2.75E-04	1.53E-04	3.91E-06	5.67E-05	4.29E-05	4.29E-05	2.36E-05	2.12E-06	3.07E-05	1.91E-05	1.91E-05	9.44E-06
1715	257261.7	4085122	3.01E-05	4.35E-04	3.21E-04	3.21E-04	1.79E-04	4.57E-06	6.63E-05	5.01E-05	5.01E-05	2.75E-05	2.48E-06	3.59E-05	2.23E-05	2.23E-05	1.10E-05
1716	257263.4	4085167	3.49E-05	5.05E-04	3.73E-04	3.73E-04	2.08E-04	5.30E-06	7.70E-05	5.82E-05	5.82E-05	3.20E-05	2.88E-06	4.17E-05	2.59E-05	2.59E-05	1.28E-05
1717	257163.6	4084949	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.90E-05	1.76E-06	2.56E-05	1.93E-05	1.93E-05	1.06E-05	9.57E-07	1.38E-05	8.60E-06	8.60E-06	4.26E-06
1718	257178.7	4084909	1.02E-05	1.48E-04	1.09E-04	1.09E-04	6.06E-05	1.55E-06	2.25E-05	1.70E-05	1.70E-05	9.33E-06	8.41E-07	1.22E-05	7.55E-06	7.55E-06	3.74E-06
1719	257193.9	4084868	9.03E-06	1.31E-04	9.62E-05	9.62E-05	5.37E-05	1.37E-06	1.99E-05	1.50E-05	1.50E-05	8.26E-06	7.44E-07	1.08E-05	6.69E-06	6.69E-06	3.31E-06
1720	257209	4084827	8.11E-06	1.17E-04	8.65E-05	8.65E-05	4.82E-05	1.23E-06	1.79E-05	1.35E-05	1.35E-05	7.42E-06	6.69E-07	9.67E-06	6.01E-06	6.01E-06	2.97E-06
1721	257224.2	4084786	7.36E-06	1.06E-04	7.85E-05	7.85E-05	4.37E-05	1.12E-06	1.62E-05	1.23E-05	1.23E-05	6.74E-06	6.07E-07	8.78E-06	5.45E-06	5.45E-06	2.70E-06
1722	257239.3	4084745	6.73E-06	9.73E-05	7.17E-05	7.17E-05	4.00E-05	1.02E-06	1.48E-05	1.12E-05	1.12E-05	6.15E-06	5.54E-07	8.02E-06	4.98E-06	4.98E-06	2.47E-06
1723	257254.5	4084704	6.15E-06	8.89E-05	6.55E-05	6.55E-05	3.65E-05	9.33E-07	1.35E-05	1.02E-05	1.02E-05	5.63E-06	5.07E-07	7.33E-06	4.55E-06	4.55E-06	2.25E-06
1724	257281.9	4084674	5.91E-06	8.55E-05	6.30E-05	6.30E-05	3.51E-05	8.97E-07	1.30E-05	9.84E-06	9.84E-06	5.41E-06	4.87E-07	7.05E-06	4.38E-06	4.38E-06	2.17E-06
1725	257321.5	4084656	5.99E-06	8.67E-05	6.39E-05	6.39E-05	3.56E-05	9.09E-07	1.32E-05	9.97E-06	9.97E-06	5.48E-06	4.94E-07	7.14E-06	4.44E-06	4.44E-06	2.20E-06
1726	257361.1	4084638	6.07E-06	8.78E-05	6.47E-05	6.47E-05	3.61E-05	9.21E-07	1.34E-05	1.01E-05	1.01E-05	5.56E-06	5.00E-07	7.24E-06	4.50E-06	4.50E-06	2.23E-06
1727	257400.7	4084619	6.15E-06	8.89E-05	6.55E-05	6.55E-05	3.65E-05	9.33E-07	1.35E-05	1.02E-05	1.02E-05	5.63E-06	5.07E-07	7.33E-06	4.55E-06	4.55E-06	2.25E-06
1728	257440.3	4084601	6.23E-06	9.01E-05	6.64E-05	6.64E-05	3.70E-05	9.45E-07	1.37E-05	1.04E-05	1.04E-05	5.70E-06	5.13E-07	7.43E-06	4.61E-06	4.61E-06	2.28E-06
1729	257479.9	4084583	6.34E-06	9.18E-05	6.76E-05	6.76E-05	3.77E-05	9.63E-07	1.40E-05	1.06E-05	1.06E-05	5.81E-06	5.23E-07	7.56E-06	4.70E-06	4.70E-06	2.33E-06
1730	257156.8	4084992	1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.00E-05	2.04E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.60E-05	9.97E-06	9.97E-06	4.94E-06
1731	257158.5	4085037	1.56E-05	2.26E-04	1.67E-04	1.67E-04	9.30E-05	2.37E-06	3.45E-05	2.60E-05	2.60E-05	1.43E-05	1.29E-06	1.87E-05	1.16E-05	1.16E-05	5.73E-06
1732	257160.1	4085081	1.77E-05	2.56E-04	1.89E-04	1.89E-04	1.05E-04	2.69E-06	3.90E-05	2.95E-05	2.95E-05	1.62E-05	1.46E-06	2.11E-05	1.31E-05	1.31E-05	6.49E-06
1733	257161.8	4085126	1.97E-05	2.85E-04	2.10E-04	2.10E-04	1.17E-04	2.99E-06	4.33E-05	3.27E-05	3.27E-05	1.80E-05	1.62E-06	2.35E-05	1.46E-05	1.46E-05	7.21E-06
1734	257162.6	4085148	2.07E-05	3.00E-04	2.21E-04	2.21E-04	1.23E-04	3.14E-06	4.57E-05	3.45E-05	3.45E-05	1.90E-05	1.71E-06	2.47E-05	1.53E-05	1.53E-05	7.60E-06
1735	257063.4	4084954	9.43E-06	1.36E-04	1.00E-04	1.00E-04	5.60E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.63E-06	7.77E-07	1.12E-05	6.98E-06	6.98E-06	3.46E-06
1736	257078.2	4084914	8.43E-06	1.22E-04	8.98E-05	8.98E-05	5.01E-05	1.28E-06	1.86E-05	1.40E-05	1.40E-05	7.71E-06	6.95E-07	1.00E-05	6.24E-06	6.24E-06	3.09E-06
1737	257092.9	4084874	7.56E-06	1.09E-04	8.05E-05	8.05E-05	4.49E-05	1.15E-06	1.66E-05	1.26E-05	1.26E-05	6.91E-06	6.23E-07	9.01E-06	5.59E-06	5.59E-06	2.77E-06
1738	257107.6	4084834	6.83E-06	9.88E-05	7.29E-05	7.29E-05	4.06E-05	1.04E-06	1.51E-05	1.14E-05	1.14E-05	6.25E-06	5.63E-07	8.15E-06	5.06E-06	5.06E-06	2.51E-06
1739	257122.4	4084795	6.25E-06	9.03E-05	6.66E-05	6.66E-05	3.71E-05	9.48E-07	1.38E-05	1.04E-05	1.04E-05	5.72E-06	5.15E-07	7.45E-06	4.63E-06	4.63E-06	2.29E-06
1740	257137.1	4084755	5.75E-06	8.32E-05	6.13E-05	6.13E-05	3.42E-05	8.73E-07	1.27E-05	9.57E-06	9.57E-06	5.26E-06	4.74E-07	6.85E-06	4.26E-06	4.26E-06	2.11E-06
1741	257151.8	4084715	5.33E-06	7.71E-05	5.68E-05	5.68E-05	3.17E-05	8.09E-07	1.17E-05	8.87E-06	8.87E-06	4.88E-06	4.39E-07	6.35E-06	3.95E-06	3.95E-06	1.95E-06
1742	257166.6	4084675	4.95E-06	7.16E-05	5.28E-05	5.28E-05	2.94E-05	7.51E-07	1.09E-05	8.24E-06	8.24E-06	4.53E-06	4.08E-07	5.90E-06	3.66E-06	3.66E-06	1.81E-06
1743	257181.3	4084635	4.59E-06	6.64E-05	4.89E-05	4.89E-05	2.73E-05	6.96E-07	1.01E-05	7.64E-06	7.64E-06	4.20E-06	3.78E-07	5.47E-06	3.40E-06	3.40E-06	1.68E-06
1744	257207.9	4084607	4.44E-06	6.42E-05	4.73E-05	4.73E-05	2.64E-05	6.73E-07	9.78E-06	7.38E-06	7.38E-06	4.06E-06	3.66E-07	5.29E-06	3.29E-06	3.29E-06	1.63E-06
1745	257246.4	4084589	4.48E-06	6.48E-05	4.78E-05	4.78E-05	2.66E-05	6.80E-07	9.87E-06	7.46E-06	7.46E-06	4.10E-06	3.69E-07	5.34E-06	3.32E-06	3.32E-06	1.64E-06
1746	257284.9	4084571	4.54E-06	6.56E-05	4.84E-05	4.84E-05	2.70E-05	6.89E-07	1.00E-05	7.55E-06	7.55E-06	4.15E-06	3.74E-07	5.41E-06	3.36E-06	3.36E-06	1.66E-06
1747	257323.4	4084553	4.60E-06	6.66E-05	4.91E-05	4.91E-05	2.74E-05	6.98E-07	1.01E-05	7.66E-06	7.66E-06	4.21E-06	3.79E-07	5.49E-06	3.41E-06	3.41E-06	1.69E-06

1748	257361.9	4084536	4.66E-06	6.74E-05	4.97E-05	4.97E-05	2.77E-05	7.07E-07	1.03E-05	7.76E-06	7.76E-06	4.26E-06	3.84E-07	5.56E-06	3.45E-06	3.45E-06	1.71E-06
1749	257400.4	4084518	4.71E-06	6.81E-05	5.02E-05	5.02E-05	2.80E-05	7.15E-07	1.04E-05	7.84E-06	7.84E-06	4.31E-06	3.88E-07	5.62E-06	3.49E-06	3.49E-06	1.73E-06
1750	257438.9	4084500	4.76E-06	6.89E-05	5.08E-05	5.08E-05	2.83E-05	7.23E-07	1.05E-05	7.93E-06	7.93E-06	4.36E-06	3.93E-07	5.68E-06	3.53E-06	3.53E-06	1.75E-06
1751	257477.4	4084482	4.83E-06	6.98E-05	5.15E-05	5.15E-05	2.87E-05	7.33E-07	1.06E-05	8.04E-06	8.04E-06	4.42E-06	3.98E-07	5.76E-06	3.58E-06	3.58E-06	1.77E-06
1752	257056.9	4084996	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.35E-05	1.62E-06	2.35E-05	1.78E-05	1.78E-05	9.78E-06	8.81E-07	1.27E-05	7.91E-06	7.91E-06	3.92E-06
1753	257057.7	4085018	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.79E-05	1.73E-06	2.52E-05	1.90E-05	1.90E-05	1.04E-05	9.41E-07	1.36E-05	8.46E-06	8.46E-06	4.19E-06
1754	257059.4	4085063	1.28E-05	1.85E-04	1.36E-04	1.36E-04	7.58E-05	1.94E-06	2.81E-05	2.12E-05	2.12E-05	1.17E-05	1.05E-06	1.52E-05	9.45E-06	9.45E-06	4.68E-06
1755	257061	4085107	1.39E-05	2.01E-04	1.48E-04	1.48E-04	8.26E-05	2.11E-06	3.06E-05	2.31E-05	2.31E-05	1.27E-05	1.15E-06	1.66E-05	1.03E-05	1.03E-05	5.10E-06
1756	257062.7	4085152	1.49E-05	2.16E-04	1.59E-04	1.59E-04	8.87E-05	2.27E-06	3.29E-05	2.49E-05	2.49E-05	1.37E-05	1.23E-06	1.78E-05	1.11E-05	1.11E-05	5.47E-06
1757	256963.7	4084957	7.91E-06	1.14E-04	8.43E-05	8.43E-05	4.70E-05	1.20E-06	1.74E-05	1.32E-05	1.32E-05	7.23E-06	6.52E-07	9.43E-06	5.85E-06	5.85E-06	2.90E-06
1758	256978.9	4084916	7.12E-06	1.03E-04	7.59E-05	7.59E-05	4.23E-05	1.08E-06	1.57E-05	1.18E-05	1.18E-05	6.51E-06	5.87E-07	8.49E-06	5.27E-06	5.27E-06	2.61E-06
1759	256994	4084875	6.42E-06	9.29E-05	6.85E-05	6.85E-05	3.82E-05	9.75E-07	1.42E-05	1.07E-05	1.07E-05	5.88E-06	5.29E-07	7.66E-06	4.76E-06	4.76E-06	2.35E-06
1760	257009.2	4084834	5.85E-06	8.46E-05	6.24E-05	6.24E-05	3.48E-05	8.88E-07	1.29E-05	9.74E-06	9.74E-06	5.35E-06	4.82E-07	6.97E-06	4.33E-06	4.33E-06	2.14E-06
1761	257024.3	4084793	5.36E-06	7.76E-05	5.72E-05	5.72E-05	3.19E-05	8.14E-07	1.18E-05	8.93E-06	8.93E-06	4.91E-06	4.42E-07	6.40E-06	3.97E-06	3.97E-06	1.97E-06
1762	257039.5	4084752	4.94E-06	7.14E-05	5.26E-05	5.26E-05	2.94E-05	7.49E-07	1.09E-05	8.22E-06	8.22E-06	4.52E-06	4.07E-07	5.89E-06	3.66E-06	3.66E-06	1.81E-06
1763	257054.6	4084711	4.57E-06	6.62E-05	4.88E-05	4.88E-05	2.72E-05	6.94E-07	1.01E-05	7.61E-06	7.61E-06	4.19E-06	3.77E-07	5.45E-06	3.39E-06	3.39E-06	1.68E-06
1764	257069.8	4084670	4.26E-06	6.16E-05	4.54E-05	4.54E-05	2.53E-05	6.47E-07	9.39E-06	7.09E-06	7.09E-06	3.90E-06	3.51E-07	5.08E-06	3.16E-06	3.16E-06	1.56E-06
1765	257084.9	4084630	3.99E-06	5.77E-05	4.25E-05	4.25E-05	2.37E-05	6.05E-07	8.79E-06	6.64E-06	6.64E-06	3.65E-06	3.29E-07	4.75E-06	2.95E-06	2.95E-06	1.46E-06
1766	257100.1	4084589	3.73E-06	5.39E-05	3.98E-05	3.98E-05	2.22E-05	5.66E-07	8.22E-06	6.21E-06	6.21E-06	3.41E-06	3.07E-07	4.45E-06	2.76E-06	2.76E-06	1.37E-06
1767	257135	4084539	3.50E-06	5.06E-05	3.73E-05	3.73E-05	2.08E-05	5.31E-07	7.71E-06	5.83E-06	5.83E-06	3.20E-06	2.88E-07	4.17E-06	2.59E-06	2.59E-06	1.28E-06
1768	257174.6	4084520	3.53E-06	5.11E-05	3.77E-05	3.77E-05	2.10E-05	5.36E-07	7.79E-06	5.88E-06	5.88E-06	3.23E-06	2.91E-07	4.21E-06	2.62E-06	2.62E-06	1.30E-06
1769	257214.2	4084502	3.59E-06	5.19E-05	3.82E-05	3.82E-05	2.13E-05	5.44E-07	7.90E-06	5.97E-06	5.97E-06	3.28E-06	2.96E-07	4.28E-06	2.66E-06	2.66E-06	1.31E-06
1770	257253.8	4084484	3.65E-06	5.27E-05	3.89E-05	3.89E-05	2.17E-05	5.53E-07	8.03E-06	6.07E-06	6.07E-06	3.34E-06	3.00E-07	4.35E-06	2.70E-06	2.70E-06	1.34E-06
1771	257293.5	4084465	3.70E-06	5.35E-05	3.95E-05	3.95E-05	2.20E-05	5.62E-07	8.15E-06	6.16E-06	6.16E-06	3.39E-06	3.05E-07	4.41E-06	2.74E-06	2.74E-06	1.36E-06
1772	257333.1	4084447	3.74E-06	5.41E-05	3.99E-05	3.99E-05	2.22E-05	5.68E-07	8.24E-06	6.23E-06	6.23E-06	3.42E-06	3.08E-07	4.46E-06	2.77E-06	2.77E-06	1.37E-06
1773	257372.7	4084429	3.76E-06	5.44E-05	4.01E-05	4.01E-05	2.24E-05	5.71E-07	8.29E-06	6.27E-06	6.27E-06	3.44E-06	3.10E-07	4.49E-06	2.79E-06	2.79E-06	1.38E-06
1774	257412.3	4084410	3.77E-06	5.46E-05	4.02E-05	4.02E-05	2.24E-05	5.73E-07	8.32E-06	6.28E-06	6.28E-06	3.45E-06	3.11E-07	4.50E-06	2.80E-06	2.80E-06	1.38E-06
1775	257451.9	4084392	3.78E-06	5.47E-05	4.03E-05	4.03E-05	2.25E-05	5.74E-07	8.34E-06	6.30E-06	6.30E-06	3.46E-06	3.12E-07	4.51E-06	2.80E-06	2.80E-06	1.39E-06
1776	257491.5	4084374	3.80E-06	5.49E-05	4.05E-05	4.05E-05	2.26E-05	5.77E-07	8.37E-06	6.32E-06	6.32E-06	3.48E-06	3.13E-07	4.53E-06	2.81E-06	2.81E-06	1.39E-06
1777	256957	4085000	8.85E-06	1.28E-04	9.43E-05	9.43E-05	5.26E-05	1.34E-06	1.95E-05	1.47E-05	1.47E-05	8.09E-06	7.29E-07	1.05E-05	6.55E-06	6.55E-06	3.24E-06
1778	256958.6	4085044	9.85E-06	1.42E-04	1.05E-04	1.05E-04	5.85E-05	1.49E-06	2.17E-05	1.64E-05	1.64E-05	9.01E-06	8.12E-07	1.17E-05	7.29E-06	7.29E-06	3.61E-06
1779	256960.3	4085089	1.07E-05	1.54E-04	1.14E-04	1.14E-04	6.34E-05	1.62E-06	2.35E-05	1.78E-05	1.78E-05	9.76E-06	8.80E-07	1.27E-05	7.90E-06	7.90E-06	3.91E-06
1780	256961.9	4085133	1.13E-05	1.64E-04	1.21E-04	1.21E-04	6.72E-05	1.72E-06	2.49E-05	1.88E-05	1.88E-05	1.04E-05	9.33E-07	1.35E-05	8.38E-06	8.38E-06	4.15E-06
1781	256963.6	4085178	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.08E-05	1.81E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.82E-07	1.42E-05	8.82E-06	8.82E-06	4.37E-06
1782	256863.9	4084960	6.81E-06	9.85E-05	7.26E-05	7.26E-05	4.05E-05	1.03E-06	1.50E-05	1.13E-05	1.13E-05	6.23E-06	5.61E-07	8.12E-06	5.04E-06	5.04E-06	2.50E-06
1783	256879.4	4084918	6.17E-06	8.92E-05	6.57E-05	6.57E-05	3.66E-05	9.36E-07	1.36E-05	1.03E-05	1.03E-05	5.64E-06	5.08E-07	7.35E-06	4.57E-06	4.57E-06	2.26E-06
1784	256894.9	4084877	5.60E-06	8.09E-05	5.97E-05	5.97E-05	3.33E-05	8.49E-07	1.23E-05	9.31E-06	9.31E-06	5.12E-06	4.61E-07	6.67E-06	4.14E-06	4.14E-06	2.05E-06
1785	256910.3	4084835	5.13E-06	7.42E-05	5.47E-05	5.47E-05	3.05E-05	7.78E-07	1.13E-05	8.54E-06	8.54E-06	4.69E-06	4.23E-07	6.11E-06	3.80E-06	3.80E-06	1.88E-06
1786	256925.8	4084793	4.74E-06	6.85E-05	5.05E-05	5.05E-05	2.81E-05	7.19E-07	1.04E-05	7.88E-06	7.88E-06	4.33E-06	3.90E-07	5.65E-06	3.51E-06	3.51E-06	1.74E-06
1787	256941.3	4084751	4.38E-06	6.33E-05	4.67E-05	4.67E-05	2.60E-05	6.64E-07	9.64E-06	7.29E-06	7.29E-06	4.01E-06	3.61E-07	5.22E-06	3.24E-06	3.24E-06	1.60E-06
1788	256956.7	4084710	4.05E-06	5.85E-05	4.31E-05	4.31E-05	2.41E-05	6.14E-07	8.92E-06	6.74E-06	6.74E-06	3.70E-06	3.34E-07	4.82E-06	3.00E-06	3.00E-06	1.48E-06
1789	256972.2	4084668	3.76E-06	5.43E-05	4.00E-05	4.00E-05	2.23E-05	5.70E-07	8.28E-06	6.25E-06	6.25E-06	3.44E-06	3.10E-07	4.48E-06	2.78E-06	2.78E-06	1.38E-06
1790	256987.7	4084626	3.51E-06	5.08E-05	3.75E-05	3.75E-05	2.09E-05	5.33E-07	7.74E-06	5.85E-06	5.85E-06	3.22E-06	2.90E-07	4.19E-06	2.60E-06	2.60E-06	1.29E-06
1791	257003.1	4084584	3.31E-06	4.78E-05	3.53E-05	3.53E-05	1.97E-05	5.02E-07	7.29E-06	5.50E-06	5.50E-06	3.03E-06	2.73E-07	3.94E-06	2.45E-06	2.45E-06	1.21E-06
1792	257018.6	4084542	3.12E-06	4.51E-05	3.32E-05	3.32E-05	1.85E-05	4.73E-07	6.87E-06	5.19E-06	5.19E-06	2.85E-06	2.57E-07	3.72E-06	2.31E-06	2.31E-06	1.14E-06
1793	257034.1	4084501	2.94E-06	4.26E-05	3.14E-05	3.14E-05	1.75E-05	4.47E-07	6.48E-06	4.90E-06	4.90E-06	2.69E-06	2.43E-07	3.51E-06	2.18E-06	2.18E-06	1.08E-06
1794	257062	4084470	2.87E-06	4.15E-05	3.06E-05	3.06E-05	1.71E-05	4.35E-07	6.32E-06	4.78E-06	4.78E-06	2.63E-06	2.36E-07	3.42E-06	2.12E-06	2.12E-06	1.05E-06
1795	257102.5	4084452	2.90E-06	4.19E-05	3.09E-05	3.09E-05	1.72E-05	4.40E-07	6.39E-06	4.83E-06	4.83E-06	2.65E-06	2.39E-07	3.46E-06	2.15E-06	2.15E-06	1.06E-06
1796	257142.9	4084433	2.95E-06	4.26E-05	3.14E-05	3.14E-05	1.75E-05	4.47E-07	6.49E-06	4.90E-06	4.90E-06	2.70E-06	2.43E-07	3.51E-06	2.18E-06	2.18E-06	1.08E-06
1797	257183.3	4084414	3.01E-06	4.35E-05	3.20E-05	3.20E-05	1.79E-05	4.56E-07	6.62E-06	5.00E-06	5.00E-06	2.75E-06	2.48E-07	3.58E-06	2.23E-06	2.23E-06	1.10E-06
1798	257223.7	4084396	3.06E-06	4.42E-05	3.26E-05	3.26E-05	1.82E-05	4.64E-07	6.74E-06	5.09E-06	5.09E-06	2.80E-06	2.52E-07	3.64E-06	2.26E-06	2.26E-06	1.12E-06
1799	257264.2	4084377	3.09E-06	4.47E-05	3.30E-05	3.30E-05	1.84E-05	4.69E-07	6.81E-06	5.15E-06	5.15E-06	2.83E-06	2.55E-07	3.69E-06	2.29E-06	2.29E-06	1.13E-06
1800	257304.6	4084358	3.10E-06	4.49E-05	3.31E-05	3.31E-05	1.85E-05	4.71E-07	6.84E-06	5.17E-06	5.17E-06	2.84E-06	2.56E-07	3.70E-06	2.30E-06	2.30E-06	1.14E-06
1801	257345	4084340	3.09E-06	4.48E-05	3.30E-05	3.30E-05	1.84E-05	4.70E-07	6.82E-06	5.15E-06	5.15E-06	2.83E-06	2.55E-07	3.69E-06	2.29E-06	2.29E-06	1.13E-06
1802	257385.5	4084321	3.07E-06	4.44E-05	3.27E-05	3.27E-05	1.83E-05	4.66E-07	6.77E-06	5.11E-06	5.11E-06	2.81E-06	2.53E-07	3.66E-06	2.27E-06	2.27E-06	1.13E-06
1803	257425.9	4084302	3.05E-06	4.41E-05	3.25E-05	3.25E-05	1.81E-05	4.63E-07	6.72E-06	5.08E-06	5.08E-06	2.79E-06	2.51E-07	3.64E-06	2.26E-06	2.26E-06	1.12E-06
1804	257466.3	4084284	3.04E-06	4.40E-05	3.24E-05	3.24E-05	1.81E-05	4.62E-07	6.70E-06	5.07E-06	5.07E-06	2.78E-06	2.51E-07	3.63E-06	2.25E-06	2.25E-06	1.12E-06
1805	256857	4085003	7.55E-06	1.09E-04	8.05E-05	8.05E-05	4.49E-05	1.15E-06	1.66E-05	1.26E-05	1.26E-05	6.91E-06	6.22E-07	9.00E-06	5.59E-06	5.59E-06	2.77E-06
1806	256858.7	4085048	8.29E-06	1.20E-04	8.83E-05	8.83E-05	4.93E-05	1.26E-06	1.83E-05	1.38E-05	1.38E-05	7.58E-06	6.83E-07	9.88E-06	6.14E-06	6.14E-06	3.04E-06
1807	256860.3	4085092	8.86E-06	1.28E-04	9.45E-05	9.45E-05	5.27E-05	1.34E-06	1.95E-05	1.47E-05	1.47E-05	8.11E-06	7.30E-07	1.06E-05	6.56E-06	6.56E-06	3.25E-06
1808	256862	4085137	9.28E-06	1.34E-04	9.90E-05	9.90E-05	5.52E-05	1.41E-06	2.05E-05	1.55E-05	1.55E-05	8.49E-06	7.65E-07	1.11E-05	6.87E-06	6.87E-06	3.40E-06
1809	256863.6	4085182	9.65E-06	1.40E-04	1.03E-04	1.03E-04	5.74E-05	1.47E-06	2.13E-05	1.61E-05	1.61E-05	8.83E-06	7.96E-07	1.15E-05	7.15E-06	7.15E-06	3.54E-06
1810	256664	4084968	5.37E-06	7.77E-05	5.73E-05	5.73E-05	3.19E-05	8.15E-07	1.18E-05	8.94E-06	8.94E-06	4.92E-06	4.43E-07	6.41E-06	3.98E-06	3.98E-06	1.97E-06
1811	256679.4	4084926	4.92E-06	7.12E-05	5.25E-05	5.25E-05	2.93E-05	7.47E-07	1.08E-05	8.20E-06	8.20E-06	4.51E-06	4.06E-07	5.87E-06	3.65E-06	3.65E-06	1.80E-06
1812	256694.8	4084884	4.51E-06	6.52E-05	4.81E-05	4.81E-05	2.68E-05	6.84E-07	9.94E-06	7.51E-06	7.51E-06	4.13E-06	3.72E-07	5.38E-06	3.34E-06	3.34E-06	1.65E-06
1813	256710.2	4084843	4.17E-06	6.03E-05	4.44E-05	4.44E-05	2.48E-05	6.33E-07	9.18E-06	6.94E-06	6.94E-06	3.81E-06	3.44E-07	4.97E-06	3.09E-06	3.09E-06	1.53E-06
1814	256725.6	4084801	3.89E-06	5.63E-05	4.15E-05	4.15E-05	2.31E-05	5.91E-07	8.58E-06	6.48E-06	6.48E-06	3.56E-06	3.21E-07	4.64E-06	2.88E-06	2.88E-06	1.43E-06
1815	256741	4084760	3.66E-06	5.30E-05	3.90E-05	3.90E-05	2.18E-05	5.56E-07	8.07E-06	6.09E-06	6.09E-06	3.35E-06	3.02E-07	4.37E-06	2.71E-06	2.71E-06	1.34E-06
1816	256756.4	4084718	3.44E-06	4.98E-05	3.67E-05	3.67E-05	2.04E-05	5.22E-07	7.58E-06	5.73E-06	5.73E-06	3.15E-06	2.84E-07	4.10E-06	2.55E-06	2.55E-06	1.26E-06
1817	256771.8	4084677	3.21E-06	4.65E-05	3.43E-05	3.43E-05	1.91E-05	4.88E-07	7.08E-06	5.35E-06	5.35E-06	2.94E-06	2.65E-07	3.83E-06	2.38E-06	2.38E-06	1.18E-06
1818	256787.2	4084635	2.99E-06	4.32E-05	3.18E-05	3.18E-05	1.77E-05	4.53E-07	6.58E-06	4.97E-06	4.97E-06	2.73E-06	2.46E-07	3.56E-06	2.21E-06	2.21E-06	1.09E-06
1819	256802.6	4084593	2.77E-06	4.01E-05	2.96E-05	2.96E-05	1.65E-05	4.21E-07	6.11E-06	4.62E-06	4.62E-06	2.54E-06	2.29E-07	3.31E-06	2.05E-06	2.05E-06	1.02E-06
1820	256818	4084552	2.60E-06	3.76E-05	2.77E-05	2.77E-05	1.55E-05	3.95E-07	5.73E-06	4.33E-06	4.33E-06	2.38E-06	2.14E-07	3.10E-06	1.93E-06	1.93E-06	9.53E-07
1821	256833.4	4084510	2.46E-06	3.56E-05	2.63E-05	2.63E-05	1.46E-05	3.74E-07	5.43E-06	4.10E-06	4.10E-06	2.25E-06	2.03E-07	2.94E-06	1.82E-06	1.82E-06	9.03E-07
1822	256848.8	4084469	2.35E-06	3.41E-05	2.51E-05	2.51E-05	1.40E-05	3.57E-07	5.19E-06	3.92E-06	3.92E-06	2.15E-06	1.94E-07	2.81E-06	1.74E-06	1.74E-06	8.63E-07
1823	256864.2	4084427	2.26E-06	3.27E-05	2.41E-05	2.41E-05	1.34E-05	3.43E-07	4.98E-06	3.76E-06	3.76E-06	2.07E-06	1.86E-07	2.69E-06	1.67E-06	1.67E-06	8.28E-07
1824	256879.6	4084386	2.17E-06	3.14E-05	2.32E-05	2.32E-05	1.29E-05	3.30E-07	4.79E-06	3.62E-06	3.62E-06	1.99E-06	1.79E-07	2.59E-06	1.61E-06	1.61E-06	7.97E-07
1825	256915.1	4084335	2.11E-06	3.05E-05	2.25E-05	2.25E-05	1.25E-05	3.20E-07	4.64E-06	3.51E-06	3.51E-06	1.93E-06	1.74E-07	2.51E-06	1.56E-06	1.56E-06	7.72E-07
1826	256955.3	4084316	2.13E-06	3.09E-05	2.27E-05	2.27E-05	1.27E-05	3.24E-07	4.70E-06	3.55E-06	3.55E-06	1.95E-06	1.76E-07	2.54E-06	1.58E-06	1.58E-06	7.82E-07
1827	256995.6	4084298	2.17E-06	3.14E-05	2.31E-05	2.31E-05	1.29E-05	3.29E-07	4.78E-06	3.61E-06	3.61E-06	1.98E-06	1.79E-07	2.58E-06	1.61E-06	1.61E-06	7.95E-07
1828	257035.8	4084279	2.21E-06	3.19E-05	2.35E-05	2.35E-05	1.31E-05	3.35E-07	4.87E-06	3.68E-06	3.68E-06	2.02E-06	1.82E-07	2.63E-06	1.64E-06	1.64E-06	8.10E-07
1829	257076.1	4084260	2.25E-06	3.25E-05	2.40E-05	2.40E-05	1.34E-05	3.41E-07	4.96E-06	3.75E-06	3.75E-06	2.06E-06	1.85E-07	2.68E-06	1.67E-06	1.67E-06	8.25E-07
1830	257116.3	4084242	2.28E-06	3.29E-05	2.43E-05	2.43E-05	1.35E-05	3.46E-07	5.02E-06	3.79E-06	3.79E-06	2.08E-06	1.88E-07	2.71E-06	1.69E-06	1.69E-06	8.35E-07
1831	257156.6	4084223	2.28E-06	3.30E-05	2.44E-05	2.44E-05	1.36E-05	3.47E-07	5.03E-06	3.80E-06	3.80E-06	2.09E-06	1.88E-07	2.72E-06	1.69E-06	1.69E-06	8.38E-07
1832	257196.8	4084205	2.27E-06	3.29E-05	2.42E-05	2.42E-05	1.35E-05	3.45E-07	5.01E-06	3.79E-06	3.79E-06	2.08E-06	1.87E-07	2.71E-06	1.68E-06	1.68E-06	8.34E-07
1833	257237.1	4084186	2.25E-06	3.25E-05	2.39E-05	2.39E-05	1.33E-05	3.41E-07	4.95E-06	3.74E-06	3.74E-06	2.06E-06	1.85E-07	2.68E-06	1.66E-06	1.66E-06	8.23E-07
1834	257277.3	4084167	2.21E-06	3.19E-05	2.35E-05	2.35E-05	1.31E-05	3.35E-07	4.87E-06	3.68E-06	3.68E-06	2.02E-06	1.82E-07	2.63E-06	1.64E-06	1.64E-06	8.10E-07
1835	257317.5	4084149	2.17E-06	3.14E-05	2.32E-05	2.32E-05	1.29E-05	3.30E-07	4.79E-06	3.62E-06	3.62E-06	1.99E-06	1.79E-07	2.59E-06	1.61E-06	1.61E-06	7.96E-07
1836	257357.8	4084130	2.15E-06	3.10E-05	2.29E-05	2.29E-05	1.28E-05	3.26E-07	4.73E-06	3.57E-06	3.57E-06	1.96E-06	1.77E-07	2.56E-06	1.59E-06	1.59E-06	7.86E-07
1837	257398	4084112	2.14E-06	3.09E-05	2.28E-05	2.28E-05	1.27E-05	3.24E-07	4.70E-06	3.55E-06	3.55E-06	1.95E-06	1.76E-07	2.55E-06	1.58E-06	1.58E-06	7.83E-07
1838	257438.3	4084093	2.14E-06	3.10E-05	2.28E-05	2.28E-05	1.27E-05	3.25E-07	4.72E-06	3.56E-06	3.56E-06	1.96E-06	1.77E-07	2.55E-06	1.59E-06	1.59E-06	7.85E-07
1839	257478.5	4084074	2.16E-06	3.13E-05	2.31E-05	2.31E-05	1.29E-05	3.28E-07	4.77E-06	3.60E-06	3.60E-06	1.98E-06	1.78E-07	2.58E-06	1.60E-06	1.60E-06	7.93E-07
1840	256657.2	4085011	5.84E-06	8.45E-05	6.23E-05	6.23E-05	3.47E-05	8.87E-07	1.29E-05	9.72E-06	9.72E-06	5.35E-06	4.82E-07	6.96E-06	4.33E-06	4.33E-06	2.14E-06
1841	256658.8	4085055	6.28E-06	9.09E-05	6.70E-05	6.70E-05	3.73E-05	9.53E-07	1.38E-05	1.05E-05	1.05E-05	5.75E-06	5.18E-07	7.49E-06	4.65E-06	4.65E-06	2.30E-06
1842	256660.5	4085100	6.59E-06	9.54E-05	7.03E-05	7.03E-05	3.92E-05	1.00E-06	1.45E-05	1.10E-05	1.10E-05	6.03E-06	5.44E-07	7.86E-06	4.88E-06	4.88E-06	2.42E-06
1843	256662.1	4085144	6.81E-06	9.84E-05	7.25E-05	7.25E-05	4.04E-05	1.03E-06	1.50E-05	1.13E-05	1.13E-05	6.23E-06	5.61E-07	8.11E-06	5.04E-06	5.04E-06	2.49E-06
1844	256663	4085167	6.89E-06	9.97E-05	7.35E-05	7.35E-05	4.10E-05	1.05E-06	1.52E-05	1.15E-05	1.15E-05	6.31E-06	5.68E-07	8.22E-06	5.10E-06	5.10E-06	2.53E-06
1845	256464.2	4084975	4.45E-06	6.44E-05	4.75E-05	4.75E-05	2.65E-05	6.76E-07	9.82E-06	7.41E-06	7.41E-06	4.08E-06	3.67E-07	5.31E-06	3.30E-06	3.30E-06	1.63E-06
1846	256479.5	4084934	4.13E-06	5.97E-05	4.40E-05	4.40E-05	2.45E-05	6.26E-07	9.09E-06	6.87E-06	6.87E-06	3.78E-06	3.40E-07	4.92E-06	3.06E-06	3.06E-06	1.51E-06
1847	256494.9	4084892	3.81E-06	5.51E-05	4.06E-05	4.06E-05	2.27E-05	5.78E-07	8.40E-06	6.34E-06	6.34E-06	3.49E-06	3.14E-07	4.54E-06	2.82E-06	2.82E-06	1.40E-06
1848	256510.2	4084851	3.53E-06	5.11E-05	3.77E-05	3.77E-05	2.10E-05	5.36E-07	7.78E-06	5.88E-06	5.88E-06	3.23E-06	2.91E-07	4.21E-06	2.62E-06	2.62E-06	1.29E-06
1849	256525.6	4084809	3.31E-06	4.79E-05	3.53E-05	3.53E-05	1.97E-05	5.02E-07	7.29E-06	5.51E-06	5.51E-06	3.03E-06	2.73E-07	3.95E-06	2.45E-06	2.45E-06	1.21E-06
1850	256540.9	4084768	3.13E-06	4.53E-05	3.34E-05	3.34E-05	1.86E-05	4.76E-07	6.90E-06	5.22E-06	5.22E-06	2.87E-06	2.58E-07	3.74E-06	2.32E-06	2.32E-06	1.15E-06

1851	256556.3	4084726	2.99E-06	4.32E-05	3.18E-05	3.18E-05	1.77E-05	4.53E-07	6.58E-06	4.97E-06	4.97E-06	2.73E-06	2.46E-07	3.56E-06	2.21E-06	2.21E-06	1.09E-06
1852	256571.6	4084685	2.85E-06	4.12E-05	3.03E-05	3.03E-05	1.69E-05	4.32E-07	6.27E-06	4.74E-06	4.74E-06	2.60E-06	2.35E-07	3.39E-06	2.11E-06	2.11E-06	1.04E-06
1853	256587	4084643	2.69E-06	3.90E-05	2.87E-05	2.87E-05	1.60E-05	4.09E-07	5.94E-06	4.49E-06	4.49E-06	2.47E-06	2.22E-07	3.21E-06	2.00E-06	2.00E-06	9.88E-07
1854	256602.3	4084602	2.53E-06	3.65E-05	2.69E-05	2.69E-05	1.50E-05	3.83E-07	5.57E-06	4.21E-06	4.21E-06	2.31E-06	2.08E-07	3.01E-06	1.87E-06	1.87E-06	9.26E-07
1855	256617.7	4084561	2.35E-06	3.40E-05	2.51E-05	2.51E-05	1.40E-05	3.57E-07	5.18E-06	3.91E-06	3.91E-06	2.15E-06	1.94E-07	2.80E-06	1.74E-06	1.74E-06	8.62E-07
1856	256633	4084519	2.18E-06	3.16E-05	2.33E-05	2.33E-05	1.30E-05	3.31E-07	4.81E-06	3.63E-06	3.63E-06	2.00E-06	1.80E-07	2.60E-06	1.62E-06	1.62E-06	8.00E-07
1857	256648.4	4084478	2.04E-06	2.95E-05	2.17E-05	2.17E-05	1.21E-05	3.09E-07	4.49E-06	3.39E-06	3.39E-06	1.87E-06	1.68E-07	2.43E-06	1.51E-06	1.51E-06	7.47E-07
1858	256663.7	4084436	1.93E-06	2.79E-05	2.06E-05	2.06E-05	1.15E-05	2.93E-07	4.26E-06	3.22E-06	3.22E-06	1.77E-06	1.59E-07	2.30E-06	1.43E-06	1.43E-06	7.08E-07
1859	256679.1	4084395	1.86E-06	2.69E-05	1.98E-05	1.98E-05	1.10E-05	2.82E-07	4.09E-06	3.09E-06	3.09E-06	1.70E-06	1.53E-07	2.21E-06	1.37E-06	1.37E-06	6.81E-07
1860	256694.4	4084353	1.80E-06	2.61E-05	1.92E-05	1.92E-05	1.07E-05	2.74E-07	3.97E-06	3.00E-06	3.00E-06	1.65E-06	1.49E-07	2.15E-06	1.34E-06	1.34E-06	6.61E-07
1861	256709.8	4084312	1.76E-06	2.55E-05	1.88E-05	1.88E-05	1.05E-05	2.67E-07	3.88E-06	2.93E-06	2.93E-06	1.61E-06	1.45E-07	2.10E-06	1.31E-06	1.31E-06	6.46E-07
1862	256725.1	4084270	1.73E-06	2.50E-05	1.84E-05	1.84E-05	1.03E-05	2.62E-07	3.80E-06	2.87E-06	2.87E-06	1.58E-06	1.42E-07	2.06E-06	1.28E-06	1.28E-06	6.32E-07
1863	256740.5	4084229	1.69E-06	2.44E-05	1.80E-05	1.80E-05	1.00E-05	2.56E-07	3.72E-06	2.81E-06	2.81E-06	1.55E-06	1.39E-07	2.01E-06	1.25E-06	1.25E-06	6.19E-07
1864	256768.2	4084199	1.68E-06	2.43E-05	1.79E-05	1.79E-05	1.00E-05	2.55E-07	3.71E-06	2.80E-06	2.80E-06	1.54E-06	1.39E-07	2.01E-06	1.25E-06	1.25E-06	6.17E-07
1865	256808.3	4084180	1.70E-06	2.46E-05	1.81E-05	1.81E-05	1.01E-05	2.58E-07	3.75E-06	2.83E-06	2.83E-06	1.56E-06	1.40E-07	2.03E-06	1.26E-06	1.26E-06	6.23E-07
1866	256848.5	4084162	1.72E-06	2.49E-05	1.84E-05	1.84E-05	1.02E-05	2.62E-07	3.80E-06	2.87E-06	2.87E-06	1.58E-06	1.42E-07	2.05E-06	1.28E-06	1.28E-06	6.32E-07
1867	256888.6	4084143	1.75E-06	2.53E-05	1.86E-05	1.86E-05	1.04E-05	2.65E-07	3.85E-06	2.91E-06	2.91E-06	1.60E-06	1.44E-07	2.08E-06	1.29E-06	1.29E-06	6.40E-07
1868	256928.7	4084125	1.77E-06	2.56E-05	1.89E-05	1.89E-05	1.05E-05	2.69E-07	3.90E-06	2.95E-06	2.95E-06	1.62E-06	1.46E-07	2.11E-06	1.31E-06	1.31E-06	6.49E-07
1869	256968.8	4084106	1.79E-06	2.58E-05	1.90E-05	1.90E-05	1.06E-05	2.71E-07	3.94E-06	2.97E-06	2.97E-06	1.64E-06	1.47E-07	2.13E-06	1.32E-06	1.32E-06	6.55E-07
1870	257009	4084088	1.79E-06	2.59E-05	1.91E-05	1.91E-05	1.07E-05	2.72E-07	3.95E-06	2.98E-06	2.98E-06	1.64E-06	1.48E-07	2.14E-06	1.33E-06	1.33E-06	6.57E-07
1871	257049.1	4084069	1.79E-06	2.58E-05	1.90E-05	1.90E-05	1.06E-05	2.71E-07	3.94E-06	2.97E-06	2.97E-06	1.64E-06	1.47E-07	2.13E-06	1.32E-06	1.32E-06	6.55E-07
1872	257089.2	4084051	1.77E-06	2.56E-05	1.89E-05	1.89E-05	1.05E-05	2.69E-07	3.90E-06	2.95E-06	2.95E-06	1.62E-06	1.46E-07	2.11E-06	1.31E-06	1.31E-06	6.49E-07
1873	257129.3	4084032	1.75E-06	2.53E-05	1.86E-05	1.86E-05	1.04E-05	2.65E-07	3.85E-06	2.91E-06	2.91E-06	1.60E-06	1.44E-07	2.08E-06	1.29E-06	1.29E-06	6.40E-07
1874	257169.5	4084014	1.72E-06	2.49E-05	1.83E-05	1.83E-05	1.02E-05	2.61E-07	3.79E-06	2.86E-06	2.86E-06	1.57E-06	1.42E-07	2.05E-06	1.27E-06	1.27E-06	6.30E-07
1875	257209.6	4083995	1.69E-06	2.45E-05	1.80E-05	1.80E-05	1.01E-05	2.57E-07	3.73E-06	2.82E-06	2.82E-06	1.55E-06	1.40E-07	2.02E-06	1.25E-06	1.25E-06	6.20E-07
1876	257249.7	4083977	1.67E-06	2.42E-05	1.78E-05	1.78E-05	9.93E-06	2.53E-07	3.68E-06	2.78E-06	2.78E-06	1.53E-06	1.38E-07	1.99E-06	1.24E-06	1.24E-06	6.12E-07
1877	257289.9	4083958	1.66E-06	2.39E-05	1.77E-05	1.77E-05	9.84E-06	2.51E-07	3.65E-06	2.76E-06	2.76E-06	1.52E-06	1.36E-07	1.97E-06	1.23E-06	1.23E-06	6.07E-07
1878	257330	4083939	1.65E-06	2.38E-05	1.76E-05	1.76E-05	9.79E-06	2.50E-07	3.63E-06	2.74E-06	2.74E-06	1.51E-06	1.36E-07	1.96E-06	1.22E-06	1.22E-06	6.04E-07
1879	257370.1	4083921	1.65E-06	2.38E-05	1.76E-05	1.76E-05	9.79E-06	2.50E-07	3.63E-06	2.74E-06	2.74E-06	1.51E-06	1.36E-07	1.96E-06	1.22E-06	1.22E-06	6.04E-07
1880	257410.2	4083902	1.65E-06	2.39E-05	1.76E-05	1.76E-05	9.82E-06	2.51E-07	3.64E-06	2.75E-06	2.75E-06	1.51E-06	1.36E-07	1.97E-06	1.22E-06	1.22E-06	6.05E-07
1881	257450.4	4083884	1.66E-06	2.40E-05	1.77E-05	1.77E-05	9.86E-06	2.52E-07	3.66E-06	2.76E-06	2.76E-06	1.52E-06	1.37E-07	1.98E-06	1.23E-06	1.23E-06	6.08E-07
1882	256457.3	4085018	4.77E-06	6.91E-05	5.09E-05	5.09E-05	2.84E-05	7.25E-07	1.05E-05	7.95E-06	7.95E-06	4.37E-06	3.94E-07	5.69E-06	3.54E-06	3.54E-06	1.75E-06
1883	256459	4085063	5.06E-06	7.32E-05	5.39E-05	5.39E-05	3.01E-05	7.68E-07	1.11E-05	8.42E-06	8.42E-06	4.63E-06	4.17E-07	6.03E-06	3.75E-06	3.75E-06	1.85E-06
1884	256460.6	4085107	5.25E-06	7.59E-05	5.59E-05	5.59E-05	3.12E-05	7.96E-07	1.16E-05	8.73E-06	8.73E-06	4.80E-06	4.32E-07	6.25E-06	3.88E-06	3.88E-06	1.92E-06
1885	256462.3	4085152	5.36E-06	7.76E-05	5.72E-05	5.72E-05	3.19E-05	8.14E-07	1.18E-05	8.93E-06	8.93E-06	4.91E-06	4.42E-07	6.39E-06	3.97E-06	3.97E-06	1.97E-06
1886	256463.9	4085196	5.46E-06	7.90E-05	5.82E-05	5.82E-05	3.24E-05	8.28E-07	1.20E-05	9.09E-06	9.09E-06	5.00E-06	4.50E-07	6.51E-06	4.04E-06	4.04E-06	2.00E-06
1887	256264.3	4084983	3.81E-06	5.51E-05	4.06E-05	4.06E-05	2.27E-05	5.78E-07	8.40E-06	6.34E-06	6.34E-06	3.49E-06	3.14E-07	4.54E-06	2.82E-06	2.82E-06	1.40E-06
1888	256279.6	4084941	3.57E-06	5.16E-05	3.80E-05	3.80E-05	2.12E-05	5.41E-07	7.86E-06	5.94E-06	5.94E-06	3.26E-06	2.94E-07	4.25E-06	2.64E-06	2.64E-06	1.31E-06
1889	256294.9	4084900	3.32E-06	4.80E-05	3.54E-05	3.54E-05	1.97E-05	5.04E-07	7.31E-06	5.53E-06	5.53E-06	3.04E-06	2.74E-07	3.96E-06	2.46E-06	2.46E-06	1.22E-06
1890	256310.2	4084858	3.09E-06	4.47E-05	3.30E-05	3.30E-05	1.84E-05	4.69E-07	6.81E-06	5.15E-06	5.15E-06	2.83E-06	2.55E-07	3.69E-06	2.29E-06	2.29E-06	1.13E-06
1891	256325.6	4084817	2.90E-06	4.19E-05	3.09E-05	3.09E-05	1.72E-05	4.40E-07	6.39E-06	4.83E-06	4.83E-06	2.65E-06	2.39E-07	3.46E-06	2.15E-06	2.15E-06	1.06E-06
1892	256340.9	4084776	2.75E-06	3.97E-05	2.93E-05	2.93E-05	1.63E-05	4.17E-07	6.05E-06	4.57E-06	4.57E-06	2.51E-06	2.26E-07	3.27E-06	2.03E-06	2.03E-06	1.01E-06
1893	256356.2	4084734	2.62E-06	3.80E-05	2.80E-05	2.80E-05	1.56E-05	3.98E-07	5.78E-06	4.37E-06	4.37E-06	2.40E-06	2.16E-07	3.13E-06	1.94E-06	1.94E-06	9.62E-07
1894	256371.5	4084693	2.52E-06	3.65E-05	2.69E-05	2.69E-05	1.50E-05	3.83E-07	5.56E-06	4.20E-06	4.20E-06	2.31E-06	2.08E-07	3.01E-06	1.87E-06	1.87E-06	9.25E-07
1895	256386.8	4084652	2.43E-06	3.51E-05	2.59E-05	2.59E-05	1.44E-05	3.69E-07	5.35E-06	4.05E-06	4.05E-06	2.22E-06	2.00E-07	2.90E-06	1.80E-06	1.80E-06	8.91E-07
1896	256402.2	4084610	2.33E-06	3.37E-05	2.48E-05	2.48E-05	1.38E-05	3.53E-07	5.13E-06	3.87E-06	3.87E-06	2.13E-06	1.92E-07	2.78E-06	1.72E-06	1.72E-06	8.53E-07
1897	256417.5	4084569	2.21E-06	3.20E-05	2.36E-05	2.36E-05	1.31E-05	3.36E-07	4.87E-06	3.68E-06	3.68E-06	2.02E-06	1.82E-07	2.64E-06	1.64E-06	1.64E-06	8.10E-07
1898	256432.8	4084527	2.08E-06	3.00E-05	2.21E-05	2.21E-05	1.23E-05	3.15E-07	4.57E-06	3.46E-06	3.46E-06	1.90E-06	1.71E-07	2.47E-06	1.54E-06	1.54E-06	7.61E-07
1899	256448.1	4084486	1.93E-06	2.79E-05	2.06E-05	2.06E-05	1.15E-05	2.93E-07	4.25E-06	3.21E-06	3.21E-06	1.76E-06	1.59E-07	2.30E-06	1.43E-06	1.43E-06	7.07E-07
1900	256463.4	4084445	1.79E-06	2.59E-05	1.91E-05	1.91E-05	1.06E-05	2.71E-07	3.94E-06	2.98E-06	2.98E-06	1.64E-06	1.47E-07	2.13E-06	1.32E-06	1.32E-06	6.56E-07
1901	256478.7	4084403	1.67E-06	2.42E-05	1.78E-05	1.78E-05	9.93E-06	2.53E-07	3.68E-06	2.78E-06	2.78E-06	1.53E-06	1.38E-07	1.99E-06	1.24E-06	1.24E-06	6.12E-07
1902	256494.1	4084362	1.58E-06	2.28E-05	1.68E-05	1.68E-05	9.38E-06	2.39E-07	3.48E-06	2.63E-06	2.63E-06	1.44E-06	1.30E-07	1.88E-06	1.17E-06	1.17E-06	5.78E-07
1903	256509.4	4084321	1.52E-06	2.19E-05	1.62E-05	1.62E-05	9.01E-06	2.30E-07	3.34E-06	2.52E-06	2.52E-06	1.39E-06	1.25E-07	1.81E-06	1.12E-06	1.12E-06	5.56E-07
1904	256524.7	4084279	1.48E-06	2.14E-05	1.58E-05	1.58E-05	8.79E-06	2.25E-07	3.26E-06	2.46E-06	2.46E-06	1.35E-06	1.22E-07	1.76E-06	1.10E-06	1.10E-06	5.42E-07
1905	256540	4084238	1.46E-06	2.11E-05	1.56E-05	1.56E-05	8.67E-06	2.21E-07	3.21E-06	2.43E-06	2.43E-06	1.34E-06	1.20E-07	1.74E-06	1.08E-06	1.08E-06	5.35E-07
1906	256555.3	4084197	1.45E-06	2.09E-05	1.54E-05	1.54E-05	8.60E-06	2.20E-07	3.19E-06	2.41E-06	2.41E-06	1.32E-06	1.19E-07	1.72E-06	1.07E-06	1.07E-06	5.30E-07
1907	256570.7	4084155	1.44E-06	2.08E-05	1.53E-05	1.53E-05	8.54E-06	2.18E-07	3.17E-06	2.39E-06	2.39E-06	1.31E-06	1.18E-07	1.71E-06	1.06E-06	1.06E-06	5.27E-07
1908	256586	4084114	1.43E-06	2.06E-05	1.52E-05	1.52E-05	8.48E-06	2.16E-07	3.14E-06	2.37E-06	2.37E-06	1.31E-06	1.18E-07	1.70E-06	1.06E-06	1.06E-06	5.23E-07
1909	256621.3	4084063	1.42E-06	2.05E-05	1.51E-05	1.51E-05	8.42E-06	2.15E-07	3.12E-06	2.36E-06	2.36E-06	1.30E-06	1.17E-07	1.69E-06	1.05E-06	1.05E-06	5.19E-07
1910	256661.4	4084045	1.43E-06	2.07E-05	1.52E-05	1.52E-05	8.49E-06	2.17E-07	3.15E-06	2.38E-06	2.38E-06	1.31E-06	1.18E-07	1.70E-06	1.06E-06	1.06E-06	5.24E-07
1911	256701.4	4084026	1.44E-06	2.08E-05	1.53E-05	1.53E-05	8.54E-06	2.18E-07	3.17E-06	2.39E-06	2.39E-06	1.31E-06	1.18E-07	1.71E-06	1.06E-06	1.06E-06	5.27E-07
1912	256741.5	4084008	1.44E-06	2.09E-05	1.54E-05	1.54E-05	8.59E-06	2.19E-07	3.18E-06	2.40E-06	2.40E-06	1.32E-06	1.19E-07	1.72E-06	1.07E-06	1.07E-06	5.30E-07
1913	256781.5	4083989	1.45E-06	2.10E-05	1.55E-05	1.55E-05	8.63E-06	2.20E-07	3.20E-06	2.42E-06	2.42E-06	1.33E-06	1.20E-07	1.73E-06	1.08E-06	1.08E-06	5.33E-07
1914	256821.6	4083971	1.46E-06	2.11E-05	1.56E-05	1.56E-05	8.67E-06	2.21E-07	3.21E-06	2.43E-06	2.43E-06	1.34E-06	1.20E-07	1.74E-06	1.08E-06	1.08E-06	5.35E-07
1915	256861.6	4083952	1.46E-06	2.11E-05	1.56E-05	1.56E-05	8.68E-06	2.22E-07	3.22E-06	2.43E-06	2.43E-06	1.34E-06	1.20E-07	1.74E-06	1.08E-06	1.08E-06	5.36E-07
1916	256901.6	4083934	1.46E-06	2.11E-05	1.56E-05	1.56E-05	8.67E-06	2.21E-07	3.21E-06	2.43E-06	2.43E-06	1.34E-06	1.20E-07	1.74E-06	1.08E-06	1.08E-06	5.35E-07
1917	256941.7	4083915	1.45E-06	2.10E-05	1.55E-05	1.55E-05	8.62E-06	2.20E-07	3.20E-06	2.41E-06	2.41E-06	1.33E-06	1.20E-07	1.73E-06	1.07E-06	1.07E-06	5.32E-07
1918	256981.7	4083897	1.44E-06	2.08E-05	1.53E-05	1.53E-05	8.55E-06	2.18E-07	3.17E-06	2.39E-06	2.39E-06	1.32E-06	1.19E-07	1.71E-06	1.07E-06	1.07E-06	5.27E-07
1919	257021.8	4083878	1.42E-06	2.06E-05	1.52E-05	1.52E-05	8.46E-06	2.16E-07	3.14E-06	2.37E-06	2.37E-06	1.30E-06	1.17E-07	1.70E-06	1.05E-06	1.05E-06	5.22E-07
1920	257061.8	4083860	1.41E-06	2.04E-05	1.50E-05	1.50E-05	8.38E-06	2.14E-07	3.11E-06	2.35E-06	2.35E-06	1.29E-06	1.16E-07	1.68E-06	1.04E-06	1.04E-06	5.17E-07
1921	257101.9	4083841	1.40E-06	2.02E-05	1.49E-05	1.49E-05	8.31E-06	2.12E-07	3.08E-06	2.33E-06	2.33E-06	1.28E-06	1.15E-07	1.67E-06	1.03E-06	1.03E-06	5.12E-07
1922	257141.9	4083823	1.39E-06	2.00E-05	1.48E-05	1.48E-05	8.23E-06	2.10E-07	3.05E-06	2.31E-06	2.31E-06	1.27E-06	1.14E-07	1.65E-06	1.03E-06	1.03E-06	5.08E-07
1923	257182	4083804	1.37E-06	1.99E-05	1.46E-05	1.46E-05	8.16E-06	2.08E-07	3.03E-06	2.29E-06	2.29E-06	1.26E-06	1.13E-07	1.64E-06	1.02E-06	1.02E-06	5.03E-07
1924	257222	4083786	1.36E-06	1.97E-05	1.45E-05	1.45E-05	8.09E-06	2.06E-07	3.00E-06	2.26E-06	2.26E-06	1.25E-06	1.12E-07	1.62E-06	1.01E-06	1.01E-06	4.99E-07
1925	257262.1	4083767	1.35E-06	1.95E-05	1.44E-05	1.44E-05	8.03E-06	2.05E-07	2.98E-06	2.25E-06	2.25E-06	1.24E-06	1.11E-07	1.61E-06	1.00E-06	1.00E-06	4.95E-07
1926	257302.1	4083749	1.34E-06	1.94E-05	1.43E-05	1.43E-05	7.96E-06	2.03E-07	2.95E-06	2.23E-06	2.23E-06	1.23E-06	1.10E-07	1.60E-06	9.92E-07	9.92E-07	4.91E-07
1927	257342.2	4083730	1.33E-06	1.92E-05	1.42E-05	1.42E-05	7.90E-06	2.02E-07	2.93E-06	2.21E-06	2.21E-06	1.22E-06	1.10E-07	1.59E-06	9.85E-07	9.85E-07	4.87E-07
1928	257382.2	4083712	1.32E-06	1.91E-05	1.41E-05	1.41E-05	7.85E-06	2.01E-07	2.91E-06	2.20E-06	2.20E-06	1.21E-06	1.09E-07	1.58E-06	9.79E-07	9.79E-07	4.84E-07
1929	257422.2	4083693	1.32E-06	1.90E-05	1.40E-05	1.40E-05	7.82E-06	2.00E-07	2.90E-06	2.19E-06	2.19E-06	1.20E-06	1.08E-07	1.57E-06	9.74E-07	9.74E-07	4.82E-07
1930	257462.3	4083675	1.31E-06	1.90E-05	1.40E-05	1.40E-05	7.79E-06	1.99E-07	2.89E-06	2.18E-06	2.18E-06	1.20E-06	1.08E-07	1.56E-06	9.71E-07	9.71E-07	4.81E-07
1931	256257.5	4085025	4.04E-06	5.84E-05	4.31E-05	4.31E-05	2.40E-05	6.13E-07	8.90E-06	6.73E-06	6.73E-06	3.70E-06	3.33E-07	4.82E-06	2.99E-06	2.99E-06	1.48E-06
1932	256259.1	4085070	4.24E-06	6.13E-05	4.52E-05	4.52E-05	2.52E-05	6.43E-07	9.33E-06	7.05E-06	7.05E-06	3.88E-06	3.49E-07	5.05E-06	3.14E-06	3.14E-06	1.55E-06
1933	256260.8	4085115	4.35E-06	6.30E-05	4.64E-05	4.64E-05	2.59E-05	6.61E-07	9.59E-06	7.25E-06	7.25E-06	3.98E-06	3.59E-07	5.19E-06	3.22E-06	3.22E-06	1.60E-06
1934	256261.6	4085137	4.39E-06	6.35E-05	4.68E-05	4.68E-05	2.61E-05	6.67E-07	9.68E-06	7.31E-06	7.31E-06	4.02E-06	3.62E-07	5.24E-06	3.25E-06	3.25E-06	1.61E-06
1935	256263.2	4085181	4.45E-06	6.44E-05	4.74E-05	4.74E-05	2.65E-05	6.75E-07	9.81E-06	7.41E-06	7.41E-06	4.07E-06	3.67E-07	5.31E-06	3.30E-06	3.30E-06	1.63E-06
1936	256064.4	4084990	3.34E-06	4.82E-05	3.56E-05	3.56E-05	1.98E-05	5.06E-07	7.35E-06	5.55E-06	5.55E-06	3.05E-06	2.75E-07	3.98E-06	2.47E-06	2.47E-06	1.22E-06
1937	256079.7	4084949	3.16E-06	4.56E-05	3.36E-05	3.36E-05	1.88E-05	4.79E-07	6.95E-06	5.25E-06	5.25E-06	2.89E-06	2.60E-07	3.76E-06	2.34E-06	2.34E-06	1.16E-06
1938	256095	4084907	2.96E-06	4.28E-05	3.15E-05	3.15E-05	1.76E-05	4.49E-07	6.52E-06	4.93E-06	4.93E-06	2.71E-06	2.44E-07	3.53E-06	2.19E-06	2.19E-06	1.08E-06
1939	256110.3	4084866	2.77E-06	4.01E-05	2.95E-05	2.95E-05	1.65E-05	4.20E-07	6.10E-06	4.61E-06	4.61E-06	2.54E-06	2.28E-07	3.30E-06	2.05E-06	2.05E-06	1.02E-06
1940	256125.6	4084825	2.60E-06	3.76E-05	2.77E-05	2.77E-05	1.55E-05	3.95E-07	5.73E-06	4.33E-06	4.33E-06	2.38E-06	2.15E-07	3.10E-06	1.93E-06	1.93E-06	9.54E-07
1941	256140.9	4084783	2.46E-06	3.56E-05	2.63E-05	2.63E-05	1.46E-05	3.74E-07	5.43E-06	4.10E-06	4.10E-06	2.25E-06	2.03E-07	2.94E-06	1.82E-06	1.82E-06	9.03E-07
1942	256156.2	4084742	2.35E-06	3.40E-05	2.51E-05	2.51E-05	1.40E-05	3.57E-07	5.18E-06	3.92E-06	3.92E-06	2.15E-06	1.94E-07	2.80E-06	1.74E-06	1.74E-06	8.62E-07
1943	256171.5	4084701	2.26E-06	3.27E-05	2.41E-05	2.41E-05	1.35E-05	3.44E-07	4.99E-06	3.77E-06	3.77E-06	2.07E-06	1.87E-07	2.70E-06	1.68E-06	1.68E-06	8.30E-07
1944	256186.8	4084660	2.19E-06	3.17E-05	2.34E-05	2.34E-05	1.30E-05	3.32E-07	4.83E-06	3.65E-06	3.65E-06	2.00E-06	1.81E-07	2.61E-06	1.62E-06	1.62E-06	8.03E-07
1945	256202.1	4084618	2.12E-06	3.07E-05	2.26E-05	2.26E-05	1.26E-05	3.22E-07	4.68E-06	3.53E-06	3.53E-06	1.94E-06	1.75E-07	2.53E-06	1.57E-06	1.57E-06	7.78E-07
1946	256217.4	4084577	2.05E-06	2.97E-05	2.19E-05	2.19E-05	1.22E-05	3.11E-07	4.52E-06	3.41E-06	3.41E-06	1.88E-06	1.69E-07	2.45E-06	1.52E-06	1.52E-06	7.52E-07
1947	256232.7	4084536	1.97E-06	2.85E-05	2.10E-05	2.10E-05	1.17E-05	2.99E-07	4.34E-06	3.28E-06	3.28E-06	1.80E-06	1.62E-07	2.35E-06	1.46E-06	1.46E-06	7.22E-07
1948	256248	4084494	1.87E-06	2.70E-05	1.99E-05	1.99E-05	1.11E-05	2.84E-07	4.12E-06	3.11E-06	3.11E-06	1.71E-06	1.54E-07	2.23E-06	1.38E-06	1.38E-06	6.85E-07
1949	256263.3	4084453	1.75E-06	2.53E-05	1.87E-05	1.87E-05	1.04E-05	2.66E-07	3.86E-06	2.91E-06	2.91E-06	1.60E-06	1.44E-07	2.09E-06	1.30E-06	1.30E-06	6.41E-07
1950	256278.6	4084412	1.63E-06	2.36E-05	1.74E-05	1.74E-05	9.69E-06	2.48E-07	3.59E-06	2.71E-06	2.71E-06	1.49E-06	1.34E-07	1.94E-06	1.21E-06	1.21E-06	5.98E-07
1951	256293.9	4084370	1.51E-06	2.19E-05	1.61E-05	1.61E-05	8.99E-06	2.30E-07	3.33E-06	2.52E-06	2.52E-06	1.38E-06	1.25E-07	1.80E-06	1.12E-06	1.12E-06	5.54E-07
1952	256309.2	4084329	1.41E-06	2.04E-05	1.50E-05	1.50E-05	8.38E-06	2.14E-07	3.11E-06	2.35E-06	2.35E-06	1.29E-06	1.16E-07	1.68E-06	1.04E-06	1.04E-06	5.17E-07
1953	256324.4	4084288	1.33E-06	1.92E-05	1.42E-05	1.42E-05	7.90E-06	2.02E-07	2.93E-06	2.21E-06	2.21E-06	1.22E-06	1.10E-07	1.59E-06	9.85E-07	9.85E-07	4.87E-07

1954	256339.7	4084246	1.27E-06	1.84E-05	1.36E-05	1.36E-05	7.58E-06	1.93E-07	2.81E-06	2.12E-06	2.12E-06	1.17E-06	1.05E-07	1.52E-06	9.44E-07	9.44E-07	4.67E-07
1955	256355	4084205	1.24E-06	1.80E-05	1.32E-05	1.32E-05	7.38E-06	1.88E-07	2.74E-06	2.07E-06	2.07E-06	1.14E-06	1.02E-07	1.48E-06	9.20E-07	9.20E-07	4.55E-07
1956	256370.3	4084164	1.23E-06	1.78E-05	1.31E-05	1.31E-05	7.31E-06	1.87E-07	2.71E-06	2.05E-06	2.05E-06	1.13E-06	1.01E-07	1.47E-06	9.10E-07	9.10E-07	4.51E-07
1957	256385.6	4084123	1.23E-06	1.78E-05	1.31E-05	1.31E-05	7.31E-06	1.87E-07	2.71E-06	2.05E-06	2.05E-06	1.13E-06	1.01E-07	1.47E-06	9.10E-07	9.10E-07	4.51E-07
1958	256400.9	4084081	1.24E-06	1.79E-05	1.32E-05	1.32E-05	7.34E-06	1.88E-07	2.72E-06	2.06E-06	2.06E-06	1.13E-06	1.02E-07	1.47E-06	9.15E-07	9.15E-07	4.53E-07
1959	256416.2	4084040	1.24E-06	1.79E-05	1.32E-05	1.32E-05	7.37E-06	1.88E-07	2.73E-06	2.06E-06	2.06E-06	1.13E-06	1.02E-07	1.48E-06	9.18E-07	9.18E-07	4.54E-07
1960	256431.5	4083999	1.24E-06	1.80E-05	1.32E-05	1.32E-05	7.38E-06	1.88E-07	2.74E-06	2.07E-06	2.07E-06	1.14E-06	1.02E-07	1.48E-06	9.20E-07	9.20E-07	4.55E-07
1961	256446.8	4083957	1.23E-06	1.78E-05	1.32E-05	1.32E-05	7.33E-06	1.87E-07	2.72E-06	2.05E-06	2.05E-06	1.13E-06	1.02E-07	1.47E-06	9.14E-07	9.14E-07	4.52E-07
1962	256474.5	4083927	1.23E-06	1.78E-05	1.31E-05	1.31E-05	7.32E-06	1.87E-07	2.71E-06	2.05E-06	2.05E-06	1.13E-06	1.02E-07	1.47E-06	9.12E-07	9.12E-07	4.51E-07
1963	256514.4	4083909	1.24E-06	1.79E-05	1.32E-05	1.32E-05	7.34E-06	1.88E-07	2.72E-06	2.06E-06	2.06E-06	1.13E-06	1.02E-07	1.47E-06	9.15E-07	9.15E-07	4.53E-07
1964	256554.4	4083890	1.24E-06	1.79E-05	1.32E-05	1.32E-05	7.34E-06	1.88E-07	2.72E-06	2.06E-06	2.06E-06	1.13E-06	1.02E-07	1.47E-06	9.15E-07	9.15E-07	4.53E-07
1965	256594.4	4083872	1.23E-06	1.78E-05	1.31E-05	1.31E-05	7.32E-06	1.87E-07	2.71E-06	2.05E-06	2.05E-06	1.13E-06	1.02E-07	1.47E-06	9.12E-07	9.12E-07	4.51E-07
1966	256634.4	4083854	1.23E-06	1.78E-05	1.31E-05	1.31E-05	7.30E-06	1.86E-07	2.70E-06	2.04E-06	2.04E-06	1.12E-06	1.01E-07	1.46E-06	9.09E-07	9.09E-07	4.50E-07
1967	256674.4	4083835	1.23E-06	1.77E-05	1.31E-05	1.31E-05	7.28E-06	1.86E-07	2.70E-06	2.04E-06	2.04E-06	1.12E-06	1.01E-07	1.46E-06	9.07E-07	9.07E-07	4.49E-07
1968	256714.4	4083817	1.22E-06	1.77E-05	1.30E-05	1.30E-05	7.27E-06	1.86E-07	2.70E-06	2.04E-06	2.04E-06	1.12E-06	1.01E-07	1.46E-06	9.06E-07	9.06E-07	4.48E-07
1969	256754.4	4083798	1.22E-06	1.77E-05	1.30E-05	1.30E-05	7.26E-06	1.85E-07	2.69E-06	2.03E-06	2.03E-06	1.12E-06	1.01E-07	1.46E-06	9.04E-07	9.04E-07	4.48E-07
1970	256794.4	4083780	1.22E-06	1.76E-05	1.30E-05	1.30E-05	7.23E-06	1.85E-07	2.68E-06	2.03E-06	2.03E-06	1.11E-06	1.00E-07	1.45E-06	9.01E-07	9.01E-07	4.46E-07
1971	256834.3	4083761	1.21E-06	1.75E-05	1.29E-05	1.29E-05	7.21E-06	1.84E-07	2.67E-06	2.02E-06	2.02E-06	1.11E-06	1.00E-07	1.45E-06	8.98E-07	8.98E-07	4.45E-07
1972	256874.3	4083743	1.21E-06	1.75E-05	1.29E-05	1.29E-05	7.20E-06	1.84E-07	2.67E-06	2.02E-06	2.02E-06	1.11E-06	9.98E-08	1.44E-06	8.97E-07	8.97E-07	4.44E-07
1973	256914.3	4083724	1.21E-06	1.75E-05	1.29E-05	1.29E-05	7.17E-06	1.83E-07	2.66E-06	2.01E-06	2.01E-06	1.10E-06	9.95E-08	1.44E-06	8.94E-07	8.94E-07	4.42E-07
1974	256954.3	4083706	1.20E-06	1.74E-05	1.28E-05	1.28E-05	7.15E-06	1.83E-07	2.65E-06	2.00E-06	2.00E-06	1.10E-06	9.91E-08	1.43E-06	8.91E-07	8.91E-07	4.41E-07
1975	256994.3	4083687	1.20E-06	1.73E-05	1.28E-05	1.28E-05	7.12E-06	1.82E-07	2.64E-06	2.00E-06	2.00E-06	1.10E-06	9.88E-08	1.43E-06	8.88E-07	8.88E-07	4.39E-07
1976	257034.3	4083669	1.19E-06	1.72E-05	1.27E-05	1.27E-05	7.09E-06	1.81E-07	2.63E-06	1.98E-06	1.98E-06	1.09E-06	9.83E-08	1.42E-06	8.83E-07	8.83E-07	4.37E-07
1977	257074.3	4083650	1.18E-06	1.71E-05	1.26E-05	1.26E-05	7.04E-06	1.80E-07	2.61E-06	1.97E-06	1.97E-06	1.08E-06	9.76E-08	1.41E-06	8.77E-07	8.77E-07	4.34E-07
1978	257114.2	4083632	1.17E-06	1.70E-05	1.25E-05	1.25E-05	6.98E-06	1.78E-07	2.59E-06	1.95E-06	1.95E-06	1.07E-06	9.68E-08	1.40E-06	8.70E-07	8.70E-07	4.30E-07
1979	257154.2	4083613	1.16E-06	1.68E-05	1.24E-05	1.24E-05	6.91E-06	1.76E-07	2.56E-06	1.93E-06	1.93E-06	1.06E-06	9.58E-08	1.39E-06	8.60E-07	8.60E-07	4.26E-07
1980	257194.2	4083595	1.15E-06	1.66E-05	1.22E-05	1.22E-05	6.81E-06	1.74E-07	2.52E-06	1.91E-06	1.91E-06	1.05E-06	9.44E-08	1.37E-06	8.48E-07	8.48E-07	4.20E-07
1981	257234.2	4083576	1.13E-06	1.63E-05	1.20E-05	1.20E-05	6.70E-06	1.71E-07	2.48E-06	1.88E-06	1.88E-06	1.03E-06	9.29E-08	1.34E-06	8.35E-07	8.35E-07	4.13E-07
1982	257274.2	4083558	1.11E-06	1.60E-05	1.18E-05	1.18E-05	6.59E-06	1.68E-07	2.44E-06	1.85E-06	1.85E-06	1.01E-06	9.14E-08	1.32E-06	8.21E-07	8.21E-07	4.06E-07
1983	257314.2	4083539	1.09E-06	1.58E-05	1.16E-05	1.16E-05	6.48E-06	1.65E-07	2.40E-06	1.81E-06	1.81E-06	9.98E-07	8.99E-08	1.30E-06	8.07E-07	8.07E-07	4.00E-07
1984	257354.2	4083521	1.08E-06	1.56E-05	1.15E-05	1.15E-05	6.39E-06	1.63E-07	2.37E-06	1.79E-06	1.79E-06	9.84E-07	8.87E-08	1.28E-06	7.97E-07	7.97E-07	3.94E-07
1985	257394.2	4083503	1.07E-06	1.54E-05	1.14E-05	1.14E-05	6.33E-06	1.62E-07	2.35E-06	1.77E-06	1.77E-06	9.75E-07	8.78E-08	1.27E-06	7.89E-07	7.89E-07	3.91E-07
1986	257434.1	4083484	1.06E-06	1.54E-05	1.13E-05	1.13E-05	6.31E-06	1.61E-07	2.34E-06	1.77E-06	1.77E-06	9.71E-07	8.75E-08	1.27E-06	7.86E-07	7.86E-07	3.89E-07
1987	256057.6	4085033	3.50E-06	5.07E-05	3.74E-05	3.74E-05	2.08E-05	5.32E-07	7.72E-06	5.83E-06	5.83E-06	3.21E-06	2.89E-07	4.18E-06	2.59E-06	2.59E-06	1.28E-06
1988	256059.2	4085077	3.64E-06	5.27E-05	3.88E-05	3.88E-05	2.17E-05	5.53E-07	8.03E-06	6.06E-06	6.06E-06	3.33E-06	3.00E-07	4.34E-06	2.70E-06	2.70E-06	1.34E-06
1989	256060.9	4085122	3.72E-06	5.39E-05	3.97E-05	3.97E-05	2.21E-05	5.65E-07	8.20E-06	6.20E-06	6.20E-06	3.41E-06	3.07E-07	4.44E-06	2.76E-06	2.76E-06	1.36E-06
1990	256062.5	4085167	3.76E-06	5.44E-05	4.01E-05	4.01E-05	2.24E-05	5.71E-07	8.29E-06	6.27E-06	6.27E-06	3.44E-06	3.10E-07	4.49E-06	2.79E-06	2.79E-06	1.38E-06
1991	256064.2	4085211	3.79E-06	5.49E-05	4.05E-05	4.05E-05	2.26E-05	5.76E-07	8.36E-06	6.32E-06	6.32E-06	3.47E-06	3.13E-07	4.52E-06	2.81E-06	2.81E-06	1.39E-06
1992	257564.3	4085181	4.57E-04	6.61E-03	4.87E-03	4.87E-03	2.72E-03	6.94E-05	1.01E-03	7.61E-04	7.61E-04	4.18E-04	3.77E-05	5.45E-04	3.38E-04	3.38E-04	1.68E-04
1993	257588.6	4085180	5.39E-04	7.79E-03	5.75E-03	5.75E-03	3.20E-03	8.18E-05	1.19E-03	8.97E-04	8.97E-04	4.93E-04	4.44E-05	6.43E-04	3.99E-04	3.99E-04	1.98E-04
1994	257612.8	4085178	5.88E-04	8.50E-03	6.26E-03	6.26E-03	3.49E-03	8.92E-05	1.29E-03	9.78E-04	9.78E-04	5.38E-04	4.84E-05	7.01E-04	4.35E-04	4.35E-04	2.15E-04
1995	257637.1	4085177	6.18E-04	8.93E-03	6.58E-03	6.58E-03	3.67E-03	9.37E-05	1.36E-03	1.03E-03	1.03E-03	5.65E-04	5.09E-05	7.36E-04	4.57E-04	4.57E-04	2.26E-04
1996	257661.4	4085176	6.38E-04	9.22E-03	6.80E-03	6.80E-03	3.79E-03	9.68E-05	1.41E-03	1.06E-03	1.06E-03	5.84E-04	5.26E-05	7.60E-04	4.72E-04	4.72E-04	2.34E-04
1997	257685.7	4085175	6.52E-04	9.43E-03	6.95E-03	6.95E-03	3.88E-03	9.90E-05	1.44E-03	1.09E-03	1.09E-03	5.97E-04	5.37E-05	7.77E-04	4.83E-04	4.83E-04	2.39E-04
1998	257710	4085174	6.63E-04	9.58E-03	7.06E-03	7.06E-03	3.94E-03	1.01E-04	1.46E-03	1.10E-03	1.10E-03	6.06E-04	5.46E-05	7.90E-04	4.91E-04	4.91E-04	2.43E-04
1999	257734.2	4085173	6.70E-04	9.69E-03	7.14E-03	7.14E-03	3.98E-03	1.02E-04	1.48E-03	1.12E-03	1.12E-03	6.13E-04	5.52E-05	7.99E-04	4.96E-04	4.96E-04	2.46E-04
2000	257758.5	4085172	6.76E-04	9.78E-03	7.21E-03	7.21E-03	4.02E-03	1.03E-04	1.49E-03	1.13E-03	1.13E-03	6.19E-04	5.57E-05	8.06E-04	5.01E-04	5.01E-04	2.48E-04
2001	257782.8	4085171	6.80E-04	9.84E-03	7.25E-03	7.25E-03	4.04E-03	1.03E-04	1.50E-03	1.13E-03	1.13E-03	6.22E-04	5.61E-05	8.11E-04	5.04E-04	5.04E-04	2.49E-04
2002	257807.1	4085170	6.83E-04	9.88E-03	7.28E-03	7.28E-03	4.06E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.25E-04	5.63E-05	8.14E-04	5.06E-04	5.06E-04	2.50E-04
2003	257831.4	4085169	6.85E-04	9.91E-03	7.30E-03	7.30E-03	4.07E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.27E-04	5.65E-05	8.17E-04	5.07E-04	5.07E-04	2.51E-04
2004	257855.7	4085168	6.86E-04	9.93E-03	7.32E-03	7.32E-03	4.08E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.28E-04	5.66E-05	8.18E-04	5.08E-04	5.08E-04	2.52E-04
2005	257879.9	4085167	6.87E-04	9.94E-03	7.32E-03	7.32E-03	4.08E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.29E-04	5.66E-05	8.19E-04	5.09E-04	5.09E-04	2.52E-04
2006	257904.2	4085166	6.87E-04	9.93E-03	7.32E-03	7.32E-03	4.08E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.29E-04	5.66E-05	8.19E-04	5.09E-04	5.09E-04	2.52E-04
2007	257928.5	4085164	6.86E-04	9.93E-03	7.32E-03	7.32E-03	4.08E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.28E-04	5.66E-05	8.18E-04	5.08E-04	5.08E-04	2.52E-04
2008	257952.8	4085163	6.85E-04	9.91E-03	7.30E-03	7.30E-03	4.07E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.27E-04	5.65E-05	8.17E-04	5.07E-04	5.07E-04	2.51E-04
2009	257977.1	4085162	6.83E-04	9.88E-03	7.28E-03	7.28E-03	4.06E-03	1.04E-04	1.50E-03	1.14E-03	1.14E-03	6.25E-04	5.63E-05	8.14E-04	5.06E-04	5.06E-04	2.50E-04
2010	258001.3	4085161	6.80E-04	9.84E-03	7.25E-03	7.25E-03	4.04E-03	1.03E-04	1.50E-03	1.13E-03	1.13E-03	6.23E-04	5.61E-05	8.11E-04	5.04E-04	5.04E-04	2.49E-04
2011	258025.6	4085160	6.77E-04	9.79E-03	7.22E-03	7.22E-03	4.02E-03	1.03E-04	1.49E-03	1.13E-03	1.13E-03	6.20E-04	5.58E-05	8.07E-04	5.01E-04	5.01E-04	2.48E-04
2012	258049.9	4085159	6.73E-04	9.74E-03	7.18E-03	7.18E-03	4.00E-03	1.02E-04	1.48E-03	1.12E-03	1.12E-03	6.16E-04	5.55E-05	8.03E-04	4.98E-04	4.98E-04	2.47E-04
2013	258074.2	4085158	6.68E-04	9.66E-03	7.12E-03	7.12E-03	3.97E-03	1.01E-04	1.47E-03	1.11E-03	1.11E-03	6.11E-04	5.50E-05	7.96E-04	4.95E-04	4.95E-04	2.45E-04
2014	258098.5	4085157	6.50E-04	9.41E-03	6.93E-03	6.93E-03	3.87E-03	9.87E-05	1.43E-03	1.08E-03	1.08E-03	5.95E-04	5.36E-05	7.75E-04	4.82E-04	4.82E-04	2.38E-04
2015	258122.8	4085156	6.42E-04	9.28E-03	6.84E-03	6.84E-03	3.81E-03	9.74E-05	1.41E-03	1.07E-03	1.07E-03	5.87E-04	5.29E-05	7.65E-04	4.75E-04	4.75E-04	2.35E-04
2016	258147	4085155	6.32E-04	9.14E-03	6.73E-03	6.73E-03	3.75E-03	9.59E-05	1.39E-03	1.05E-03	1.05E-03	5.78E-04	5.21E-05	7.53E-04	4.68E-04	4.68E-04	2.32E-04
2017	258171.3	4085154	6.19E-04	8.96E-03	6.60E-03	6.60E-03	3.68E-03	9.40E-05	1.36E-03	1.03E-03	1.03E-03	5.67E-04	5.10E-05	7.38E-04	4.59E-04	4.59E-04	2.27E-04
2018	258195.6	4085153	6.03E-04	8.72E-03	6.43E-03	6.43E-03	3.58E-03	9.15E-05	1.33E-03	1.00E-03	1.00E-03	5.52E-04	4.97E-05	7.19E-04	4.47E-04	4.47E-04	2.21E-04
2019	258219.9	4085152	5.82E-04	8.42E-03	6.20E-03	6.20E-03	3.46E-03	8.83E-05	1.28E-03	9.69E-04	9.69E-04	5.33E-04	4.80E-05	6.94E-04	4.31E-04	4.31E-04	2.13E-04
2020	258244.2	4085150	5.55E-04	8.02E-03	5.91E-03	5.91E-03	3.30E-03	8.42E-05	1.22E-03	9.23E-04	9.23E-04	5.08E-04	4.57E-05	6.61E-04	4.11E-04	4.11E-04	2.03E-04
2021	258268.4	4085149	5.18E-04	7.50E-03	5.52E-03	5.52E-03	3.08E-03	7.86E-05	1.14E-03	8.63E-04	8.63E-04	4.74E-04	4.27E-05	6.18E-04	3.84E-04	3.84E-04	1.90E-04
2022	258292.7	4085148	4.68E-04	6.78E-03	4.99E-03	4.99E-03	2.78E-03	7.11E-05	1.03E-03	7.80E-04	7.80E-04	4.29E-04	3.86E-05	5.59E-04	3.47E-04	3.47E-04	1.72E-04
2023	258317	4085147	4.00E-04	5.79E-03	4.26E-03	4.26E-03	2.38E-03	6.07E-05	8.81E-04	6.66E-04	6.66E-04	3.66E-04	3.30E-05	4.77E-04	2.96E-04	2.96E-04	1.47E-04
2024	258341.3	4085146	3.11E-04	4.51E-03	3.32E-03	3.32E-03	1.85E-03	4.73E-05	6.86E-04	5.18E-04	5.18E-04	2.85E-04	2.57E-05	3.71E-04	2.31E-04	2.31E-04	1.14E-04
2025	258365.6	4085145	2.24E-04	3.24E-03	2.39E-03	2.39E-03	1.33E-03	3.40E-05	4.94E-04	3.73E-04	3.73E-04	2.05E-04	1.85E-05	2.67E-04	1.66E-04	1.66E-04	8.22E-05
2026	257547.3	4085199	3.17E-04	4.58E-03	3.37E-03	3.37E-03	1.88E-03	4.80E-05	6.97E-04	5.27E-04	5.27E-04	2.90E-04	2.61E-05	3.77E-04	2.34E-04	2.34E-04	1.16E-04
2027	257589.7	4085204	3.68E-04	5.32E-03	3.92E-03	3.92E-03	2.19E-03	5.59E-05	8.11E-04	6.13E-04	6.13E-04	3.37E-04	3.03E-05	4.39E-04	2.73E-04	2.73E-04	1.35E-04
2028	257613.9	4085203	3.96E-04	5.72E-03	4.22E-03	4.22E-03	2.35E-03	6.00E-05	8.71E-04	6.58E-04	6.58E-04	3.62E-04	3.26E-05	4.72E-04	2.93E-04	2.93E-04	1.45E-04
2029	257638.2	4085202	4.15E-04	6.00E-03	4.42E-03	4.42E-03	2.47E-03	6.30E-05	9.14E-04	6.90E-04	6.90E-04	3.80E-04	3.42E-05	4.95E-04	3.07E-04	3.07E-04	1.52E-04
2030	257662.5	4085201	4.29E-04	6.20E-03	4.57E-03	4.57E-03	2.55E-03	6.51E-05	9.44E-04	7.13E-04	7.13E-04	3.92E-04	3.53E-05	5.11E-04	3.17E-04	3.17E-04	1.57E-04
2031	257686.8	4085200	4.39E-04	6.35E-03	4.68E-03	4.68E-03	2.61E-03	6.66E-05	9.67E-04	7.31E-04	7.31E-04	4.02E-04	3.62E-05	5.23E-04	3.25E-04	3.25E-04	1.61E-04
2032	257711.1	4085199	4.47E-04	6.46E-03	4.76E-03	4.76E-03	2.66E-03	6.78E-05	9.85E-04	7.44E-04	7.44E-04	4.09E-04	3.68E-05	5.33E-04	3.31E-04	3.31E-04	1.64E-04
2033	257735.4	4085198	4.53E-04	6.55E-03	4.83E-03	4.83E-03	2.69E-03	6.87E-05	9.98E-04	7.54E-04	7.54E-04	4.14E-04	3.73E-05	5.40E-04	3.35E-04	3.35E-04	1.66E-04
2034	257759.6	4085197	4.58E-04	6.62E-03	4.88E-03	4.88E-03	2.72E-03	6.94E-05	1.01E-03	7.62E-04	7.62E-04	4.19E-04	3.77E-05	5.45E-04	3.39E-04	3.39E-04	1.68E-04
2035	257783.9	4085196	4.61E-04	6.67E-03	4.92E-03	4.92E-03	2.74E-03	7.00E-05	1.02E-03	7.68E-04	7.68E-04	4.22E-04	3.80E-05	5.50E-04	3.41E-04	3.41E-04	1.69E-04
2036	257808.2	4085195	4.64E-04	6.71E-03	4.94E-03	4.94E-03	2.76E-03	7.04E-05	1.02E-03	7.72E-04	7.72E-04	4.24E-04	3.82E-05	5.53E-04	3.43E-04	3.43E-04	1.70E-04
2037	257832.5	4085194	4.66E-04	6.74E-03	4.96E-03	4.96E-03	2.77E-03	7.07E-05	1.03E-03	7.75E-04	7.75E-04	4.26E-04	3.84E-05	5.55E-04	3.45E-04	3.45E-04	1.71E-04
2038	257856.8	4085193	4.67E-04	6.75E-03	4.98E-03	4.98E-03	2.77E-03	7.09E-05	1.03E-03	7.77E-04	7.77E-04	4.27E-04	3.85E-05	5.57E-04	3.46E-04	3.46E-04	1.71E-04
2039	257881	4085192	4.67E-04	6.76E-03	4.98E-03	4.98E-03	2.78E-03	7.09E-05	1.03E-03	7.78E-04	7.78E-04	4.28E-04	3.85E-05	5.57E-04	3.46E-04	3.46E-04	1.71E-04
2040	257905.3	4085190	4.67E-04	6.76E-03	4.98E-03	4.98E-03	2.78E-03	7.10E-05	1.03E-03	7.78E-04	7.78E-04	4.28E-04	3.85E-05	5.57E-04	3.46E-04	3.46E-04	1.71E-04
2041	257929.6	4085189	4.67E-04	6.75E-03	4.98E-03	4.98E-03	2.77E-03	7.08E-05	1.03E-03	7.77E-04	7.77E-04	4.27E-04	3.85E-05	5.57E-04	3.46E-04	3.46E-04	1.71E-04
2042	257953.9	4085188	4.66E-04	6.73E-03	4.96E-03	4.96E-03	2.77E-03	7.07E-05	1.03E-03	7.75E-04	7.75E-04	4.26E-04	3.84E-05	5.55E-04	3.45E-04	3.45E-04	1.71E-04
2043	257978.2	4085187	4.58E-04	6.62E-03	4.88E-03	4.88E-03	2.72E-03	6.95E-05	1.01E-03	7.62E-04	7.62E-04	4.19E-04	3.78E-05	5.46E-04	3.39E-04	3.39E-04	1.68E-04
2044	258002.5	4085186	4.55E-04	6.59E-03	4.85E-03	4.85E-03	2.71E-03	6.91E-05	1.00E-03	7.58E-04	7.58E-04	4.17E-04	3.75E-05	5.43E-04	3.37E-04	3.37E-04	1.67E-04
2045	258026.7	4085185	4.52E-04	6.54E-03	4.82E-03	4.82E-03	2.69E-03	6.86E-05	9.96E-04	7.53E-04	7.53E-04	4.14E-04	3.73E-05	5.39E-04	3.35E-04	3.35E-04	1.66E-04
2046	258051	4085184	4.48E-04	6.48E-03	4.78E-03	4.78E-03	2.66E-03	6.80E-05	9.87E-04	7.46E-04	7.46E-04	4.10E-04	3.69E-05	5.34E-04	3.32E-04	3.32E-04	1.64E-04
2047	258075.3	4085183	4.43E-04	6.40E-03	4.72E-03	4.72E-03	2.63E-03	6.72E-05	9.75E-04	7.37E-04	7.37E-04	4.05E-04	3.65E-05	5.28E-04	3.28E-04	3.28E-04	1.62E-04
2048	258099.6	4085182	4.36E-04	6.31E-03	4.65E-03	4.65E-03	2.59E-03	6.62E-05	9.61E-04	7.26E-04	7.26E-04	3.99E-04	3.60E-05	5.20E-04	3.23E-04	3.23E-04	1.60E-04
2049	258123.9	4085181	4.28E-04	6.19E-03	4.56E-03	4.56E-03	2.54E-03	6.50E-05	9.44E-04	7.13E-04	7.13E-04	3.92E-04	3.53E-05	5.11E-04	3.17E-04	3.17E-04	1.57E-04
2050	258148.1	4085180	4.18E-04	6.05E-03	4.46E-03	4.46E-03	2.49E-03	6.35E-05	9.22E-04	6.96E-04	6.96E-04	3.83E-04	3.45E-05	4.99E-04	3.10E-04	3.10E-04	1.53E-04
2051	258172.4	4085179	4.06E-04	5.88E-03	4.33E-03	4.33E-03	2.41E-03	6.16E-05	8.95E-04	6.76E-04	6.76E-04	3.72E-04	3.35E-05	4.84E-04	3.01E-04	3.01E-04	1.49E-04
2052	258196.7	4085178	3.91E-04	5.66E-03	4.17E-03	4.17E-03	2.32E-03	5.93E-05	8.62E-04	6.51E-04	6.51E-04	3.58E-04	3.22E-05	4.66E-04	2.90E-04	2.90E-04	1.43E-04
2053	258221	4085177	3.72E-04	5.38E-03	3.97E-03	3.97E-03	2.21E-03	5.65E-05	8.20E-04	6.19E-04	6.19E-04	3.41E-04	3.07E-05	4.44E-04	2.76E-04	2.76E-04	1.36E-04
2054	258245.3	4085175	3.48E-04	5.04E-03	3.71E-03	3.71E-03	2.07E-03	5.29E-05	7.68E-04	5.80E-04	5.80E-04	3.19E-04	2.87E-05	4.15E-04	2.58E-04	2.58E-04	1.28E-04
2055	258269.6	4085174	3.19E-04	4.61E-03	3.40E-03	3.40E-03	1.90E-03	4.84E-05	7.03E-04	5.31E-04	5.31E-04	2.92E-04	2.63E-05	3.80E-04	2.36E-04	2.36E-04	1.17E-04
2056	258293.8	4085173	2.83E-04	4.09E-03	3.02E-03	3.02E-03	1.68E-03	4.29E-05	6.23E-04	4.71E-04	4.71E-04	2.59E-04	2.33E-05	3.37E-04	2.10E-04	2.10E-04	1.04E-04

2057	258318.1	4085172	2.41E-04	3.48E-03	2.56E-03	2.56E-03	1.43E-03	3.65E-05	5.30E-04	4.00E-04	4.00E-04	2.20E-04	1.98E-05	2.87E-04	1.78E-04	1.78E-04	8.82E-05
2058	258342.4	4085171	1.95E-04	2.82E-03	2.08E-03	2.08E-03	1.16E-03	2.96E-05	4.30E-04	3.25E-04	3.25E-04	1.79E-04	1.61E-05	2.33E-04	1.45E-04	1.45E-04	7.15E-05
2059	257548.4	4085224	2.52E-04	3.65E-03	2.69E-03	2.69E-03	1.50E-03	3.83E-05	5.56E-04	4.20E-04	4.20E-04	2.31E-04	2.08E-05	3.01E-04	1.87E-04	1.87E-04	9.25E-05
2060	257504.3	4085193	2.26E-04	3.27E-03	2.41E-03	2.41E-03	1.34E-03	3.43E-05	4.98E-04	3.76E-04	3.76E-04	2.07E-04	1.86E-05	2.70E-04	1.67E-04	1.67E-04	8.29E-05
2061	257590.8	4085229	2.80E-04	4.05E-03	2.98E-03	2.98E-03	1.66E-03	4.25E-05	6.17E-04	4.66E-04	4.66E-04	2.56E-04	2.31E-05	3.34E-04	2.07E-04	2.07E-04	1.03E-04
2062	257615	4085228	2.97E-04	4.30E-03	3.17E-03	3.17E-03	1.77E-03	4.51E-05	6.55E-04	4.95E-04	4.95E-04	2.72E-04	2.45E-05	3.55E-04	2.20E-04	2.20E-04	1.09E-04
2063	257639.3	4085227	3.11E-04	4.49E-03	3.31E-03	3.31E-03	1.85E-03	4.72E-05	6.85E-04	5.17E-04	5.17E-04	2.84E-04	2.56E-05	3.70E-04	2.30E-04	2.30E-04	1.14E-04
2064	257663.6	4085226	3.21E-04	4.64E-03	3.42E-03	3.42E-03	1.91E-03	4.87E-05	7.07E-04	5.34E-04	5.34E-04	2.94E-04	2.65E-05	3.83E-04	2.38E-04	2.38E-04	1.18E-04
2065	257687.9	4085225	3.29E-04	4.75E-03	3.50E-03	3.50E-03	1.95E-03	4.99E-05	7.24E-04	5.47E-04	5.47E-04	3.01E-04	2.71E-05	3.92E-04	2.43E-04	2.43E-04	1.20E-04
2066	257712.2	4085224	3.35E-04	4.84E-03	3.57E-03	3.57E-03	1.99E-03	5.08E-05	7.37E-04	5.57E-04	5.57E-04	3.06E-04	2.76E-05	3.99E-04	2.48E-04	2.48E-04	1.23E-04
2067	257736.5	4085223	3.39E-04	4.91E-03	3.62E-03	3.62E-03	2.02E-03	5.15E-05	7.48E-04	5.65E-04	5.65E-04	3.11E-04	2.80E-05	4.05E-04	2.51E-04	2.51E-04	1.24E-04
2068	257760.7	4085222	3.43E-04	4.96E-03	3.66E-03	3.66E-03	2.04E-03	5.21E-05	7.56E-04	5.71E-04	5.71E-04	3.14E-04	2.83E-05	4.09E-04	2.54E-04	2.54E-04	1.26E-04
2069	257785	4085221	3.46E-04	5.00E-03	3.69E-03	3.69E-03	2.05E-03	5.25E-05	7.62E-04	5.75E-04	5.75E-04	3.16E-04	2.85E-05	4.12E-04	2.56E-04	2.56E-04	1.27E-04
2070	257809.3	4085220	3.48E-04	5.03E-03	3.71E-03	3.71E-03	2.07E-03	5.28E-05	7.66E-04	5.79E-04	5.79E-04	3.18E-04	2.87E-05	4.15E-04	2.58E-04	2.58E-04	1.27E-04
2071	257833.6	4085219	3.49E-04	5.05E-03	3.72E-03	3.72E-03	2.07E-03	5.30E-05	7.69E-04	5.81E-04	5.81E-04	3.19E-04	2.88E-05	4.16E-04	2.59E-04	2.59E-04	1.28E-04
2072	257857.9	4085218	3.50E-04	5.06E-03	3.73E-03	3.73E-03	2.08E-03	5.31E-05	7.71E-04	5.83E-04	5.83E-04	3.20E-04	2.88E-05	4.17E-04	2.59E-04	2.59E-04	1.28E-04
2073	257882.1	4085217	3.50E-04	5.07E-03	3.73E-03	3.73E-03	2.08E-03	5.32E-05	7.72E-04	5.83E-04	5.83E-04	3.21E-04	2.89E-05	4.18E-04	2.59E-04	2.59E-04	1.28E-04
2074	257906.4	4085215	3.49E-04	5.04E-03	3.72E-03	3.72E-03	2.07E-03	5.29E-05	7.68E-04	5.80E-04	5.80E-04	3.19E-04	2.87E-05	4.16E-04	2.58E-04	2.58E-04	1.28E-04
2075	257930.7	4085214	3.45E-04	5.00E-03	3.68E-03	3.68E-03	2.05E-03	5.24E-05	7.61E-04	5.75E-04	5.75E-04	3.16E-04	2.85E-05	4.12E-04	2.56E-04	2.56E-04	1.27E-04
2076	257955	4085213	3.44E-04	4.98E-03	3.67E-03	3.67E-03	2.04E-03	5.22E-05	7.58E-04	5.73E-04	5.73E-04	3.15E-04	2.84E-05	4.10E-04	2.55E-04	2.55E-04	1.26E-04
2077	257979.3	4085212	3.42E-04	4.95E-03	3.65E-03	3.65E-03	2.03E-03	5.19E-05	7.54E-04	5.69E-04	5.69E-04	3.13E-04	2.82E-05	4.08E-04	2.53E-04	2.53E-04	1.25E-04
2078	258003.6	4085211	3.39E-04	4.91E-03	3.62E-03	3.62E-03	2.02E-03	5.15E-05	7.48E-04	5.65E-04	5.65E-04	3.11E-04	2.80E-05	4.05E-04	2.51E-04	2.51E-04	1.24E-04
2079	258027.8	4085210	3.36E-04	4.86E-03	3.58E-03	3.58E-03	2.00E-03	5.10E-05	7.40E-04	5.59E-04	5.59E-04	3.07E-04	2.77E-05	4.01E-04	2.49E-04	2.49E-04	1.23E-04
2080	258052.1	4085209	3.32E-04	4.80E-03	3.54E-03	3.54E-03	1.97E-03	5.03E-05	7.31E-04	5.52E-04	5.52E-04	3.03E-04	2.73E-05	3.95E-04	2.46E-04	2.46E-04	1.22E-04
2081	258076.4	4085208	3.26E-04	4.72E-03	3.48E-03	3.48E-03	1.94E-03	4.95E-05	7.19E-04	5.43E-04	5.43E-04	2.99E-04	2.69E-05	3.89E-04	2.42E-04	2.42E-04	1.20E-04
2082	258100.7	4085207	3.20E-04	4.63E-03	3.41E-03	3.41E-03	1.90E-03	4.86E-05	7.05E-04	5.33E-04	5.33E-04	2.93E-04	2.64E-05	3.81E-04	2.37E-04	2.37E-04	1.17E-04
2083	258125	4085206	3.12E-04	4.52E-03	3.33E-03	3.33E-03	1.86E-03	4.74E-05	6.88E-04	5.20E-04	5.20E-04	2.86E-04	2.57E-05	3.72E-04	2.31E-04	2.31E-04	1.14E-04
2084	258149.2	4085205	3.03E-04	4.38E-03	3.23E-03	3.23E-03	1.80E-03	4.60E-05	6.67E-04	5.04E-04	5.04E-04	2.77E-04	2.50E-05	3.61E-04	2.24E-04	2.24E-04	1.11E-04
2085	258173.5	4085204	2.92E-04	4.22E-03	3.11E-03	3.11E-03	1.73E-03	4.42E-05	6.42E-04	4.85E-04	4.85E-04	2.67E-04	2.40E-05	3.48E-04	2.16E-04	2.16E-04	1.07E-04
2086	258197.8	4085203	2.78E-04	4.02E-03	2.96E-03	2.96E-03	1.65E-03	4.22E-05	6.12E-04	4.63E-04	4.63E-04	2.54E-04	2.29E-05	3.31E-04	2.06E-04	2.06E-04	1.02E-04
2087	258222.1	4085201	2.62E-04	3.78E-03	2.79E-03	2.79E-03	1.56E-03	3.97E-05	5.77E-04	4.36E-04	4.36E-04	2.39E-04	2.16E-05	3.12E-04	1.94E-04	1.94E-04	9.59E-05
2088	258246.4	4085200	2.42E-04	3.51E-03	2.58E-03	2.58E-03	1.44E-03	3.68E-05	5.34E-04	4.03E-04	4.03E-04	2.22E-04	2.00E-05	2.89E-04	1.80E-04	1.80E-04	8.89E-05
2089	258270.7	4085199	2.20E-04	3.18E-03	2.34E-03	2.34E-03	1.31E-03	3.34E-05	4.85E-04	3.66E-04	3.66E-04	2.01E-04	1.81E-05	2.62E-04	1.63E-04	1.63E-04	8.06E-05
2090	258294.9	4085198	1.95E-04	2.82E-03	2.08E-03	2.08E-03	1.16E-03	2.95E-05	4.29E-04	3.24E-04	3.24E-04	1.78E-04	1.60E-05	2.32E-04	1.44E-04	1.44E-04	7.14E-05
2091	258319.2	4085197	1.68E-04	2.42E-03	1.79E-03	1.79E-03	9.96E-04	2.54E-05	3.69E-04	2.79E-04	2.79E-04	1.53E-04	1.38E-05	2.00E-04	1.24E-04	1.24E-04	6.14E-05
2092	258343.5	4085196	1.41E-04	2.03E-03	1.50E-03	1.50E-03	8.36E-04	2.13E-05	3.10E-04	2.34E-04	2.34E-04	1.29E-04	1.16E-05	1.68E-04	1.04E-04	1.04E-04	5.16E-05
2093	258367.8	4085195	1.17E-04	1.69E-03	1.24E-03	1.24E-03	6.93E-04	1.77E-05	2.57E-04	1.94E-04	1.94E-04	1.07E-04	9.61E-06	1.39E-04	8.64E-05	8.64E-05	4.27E-05
2094	257549.5	4085249	2.08E-04	3.01E-03	2.22E-03	2.22E-03	1.24E-03	3.16E-05	4.59E-04	3.47E-04	3.47E-04	1.91E-04	1.72E-05	2.48E-04	1.54E-04	1.54E-04	7.63E-05
2095	257513.4	4085236	1.92E-04	2.78E-03	2.05E-03	2.05E-03	1.14E-03	2.92E-05	4.24E-04	3.20E-04	3.20E-04	1.76E-04	1.59E-05	2.29E-04	1.42E-04	1.42E-04	7.05E-05
2096	257487.3	4085212	1.82E-04	2.63E-03	1.94E-03	1.94E-03	1.08E-03	2.76E-05	4.01E-04	3.03E-04	3.03E-04	1.66E-04	1.50E-05	2.17E-04	1.35E-04	1.35E-04	6.67E-05
2097	257471.3	4085177	1.70E-04	2.45E-03	1.81E-03	1.81E-03	1.01E-03	2.57E-05	3.74E-04	2.82E-04	2.82E-04	1.55E-04	1.40E-05	2.02E-04	1.26E-04	1.26E-04	6.22E-05
2098	257591.9	4085254	2.25E-04	3.26E-03	2.40E-03	2.40E-03	1.34E-03	3.42E-05	4.97E-04	3.75E-04	3.75E-04	2.06E-04	1.86E-05	2.69E-04	1.67E-04	1.67E-04	8.27E-05
2099	257616.2	4085253	2.37E-04	3.43E-03	2.53E-03	2.53E-03	1.41E-03	3.60E-05	5.23E-04	3.95E-04	3.95E-04	2.17E-04	1.96E-05	2.83E-04	1.76E-04	1.76E-04	8.71E-05
2100	257640.4	4085252	2.47E-04	3.57E-03	2.63E-03	2.63E-03	1.47E-03	3.75E-05	5.44E-04	4.11E-04	4.11E-04	2.26E-04	2.04E-05	2.95E-04	1.83E-04	1.83E-04	9.06E-05
2101	257664.7	4085251	2.55E-04	3.68E-03	2.72E-03	2.72E-03	1.51E-03	3.87E-05	5.61E-04	4.24E-04	4.24E-04	2.33E-04	2.10E-05	3.04E-04	1.89E-04	1.89E-04	9.34E-05
2102	257689	4085250	2.61E-04	3.77E-03	2.78E-03	2.78E-03	1.55E-03	3.96E-05	5.74E-04	4.34E-04	4.34E-04	2.39E-04	2.15E-05	3.11E-04	1.93E-04	1.93E-04	9.56E-05
2103	257713.3	4085249	2.65E-04	3.84E-03	2.83E-03	2.83E-03	1.58E-03	4.03E-05	5.85E-04	4.42E-04	4.42E-04	2.43E-04	2.19E-05	3.16E-04	1.97E-04	1.97E-04	9.73E-05
2104	257737.6	4085248	2.69E-04	3.89E-03	2.87E-03	2.87E-03	1.60E-03	4.08E-05	5.93E-04	4.48E-04	4.48E-04	2.46E-04	2.22E-05	3.21E-04	1.99E-04	1.99E-04	9.86E-05
2105	257761.8	4085247	2.72E-04	3.93E-03	2.90E-03	2.90E-03	1.62E-03	4.13E-05	5.99E-04	4.52E-04	4.52E-04	2.49E-04	2.24E-05	3.24E-04	2.01E-04	2.01E-04	9.96E-05
2106	257786.1	4085246	2.74E-04	3.96E-03	2.92E-03	2.92E-03	1.63E-03	4.16E-05	6.04E-04	4.56E-04	4.56E-04	2.51E-04	2.26E-05	3.27E-04	2.03E-04	2.03E-04	1.00E-04
2107	257810.4	4085245	2.75E-04	3.98E-03	2.94E-03	2.94E-03	1.64E-03	4.18E-05	6.07E-04	4.58E-04	4.58E-04	2.52E-04	2.27E-05	3.28E-04	2.04E-04	2.04E-04	1.01E-04
2108	257834.7	4085244	2.76E-04	4.00E-03	2.95E-03	2.95E-03	1.64E-03	4.19E-05	6.09E-04	4.60E-04	4.60E-04	2.53E-04	2.28E-05	3.29E-04	2.05E-04	2.05E-04	1.01E-04
2109	257859	4085243	2.77E-04	4.00E-03	2.95E-03	2.95E-03	1.64E-03	4.20E-05	6.10E-04	4.61E-04	4.61E-04	2.53E-04	2.28E-05	3.30E-04	2.05E-04	2.05E-04	1.01E-04
2110	257883.3	4085242	2.75E-04	3.98E-03	2.93E-03	2.93E-03	1.63E-03	4.17E-05	6.06E-04	4.57E-04	4.57E-04	2.52E-04	2.27E-05	3.28E-04	2.04E-04	2.04E-04	1.01E-04
2111	257907.5	4085240	2.73E-04	3.95E-03	2.91E-03	2.91E-03	1.62E-03	4.15E-05	6.02E-04	4.55E-04	4.55E-04	2.50E-04	2.25E-05	3.26E-04	2.02E-04	2.02E-04	1.00E-04
2112	257931.8	4085239	2.72E-04	3.94E-03	2.90E-03	2.90E-03	1.62E-03	4.13E-05	6.00E-04	4.53E-04	4.53E-04	2.49E-04	2.24E-05	3.25E-04	2.02E-04	2.02E-04	9.98E-05
2113	257956.1	4085238	2.71E-04	3.91E-03	2.89E-03	2.89E-03	1.61E-03	4.11E-05	5.96E-04	4.50E-04	4.50E-04	2.48E-04	2.23E-05	3.23E-04	2.00E-04	2.00E-04	9.92E-05
2114	257980.4	4085237	2.68E-04	3.88E-03	2.86E-03	2.86E-03	1.60E-03	4.07E-05	5.91E-04	4.47E-04	4.47E-04	2.46E-04	2.21E-05	3.20E-04	1.99E-04	1.99E-04	9.84E-05
2115	258004.7	4085236	2.66E-04	3.84E-03	2.83E-03	2.83E-03	1.58E-03	4.03E-05	5.85E-04	4.42E-04	4.42E-04	2.43E-04	2.19E-05	3.17E-04	1.97E-04	1.97E-04	9.73E-05
2116	258028.9	4085235	2.62E-04	3.79E-03	2.79E-03	2.79E-03	1.56E-03	3.98E-05	5.77E-04	4.36E-04	4.36E-04	2.40E-04	2.16E-05	3.12E-04	1.94E-04	1.94E-04	9.60E-05
2117	258053.2	4085234	2.58E-04	3.73E-03	2.75E-03	2.75E-03	1.53E-03	3.91E-05	5.68E-04	4.29E-04	4.29E-04	2.36E-04	2.12E-05	3.07E-04	1.91E-04	1.91E-04	9.44E-05
2118	258077.5	4085233	2.52E-04	3.65E-03	2.69E-03	2.69E-03	1.50E-03	3.83E-05	5.56E-04	4.20E-04	4.20E-04	2.31E-04	2.08E-05	3.01E-04	1.87E-04	1.87E-04	9.25E-05
2119	258101.8	4085232	2.46E-04	3.56E-03	2.63E-03	2.63E-03	1.46E-03	3.74E-05	5.43E-04	4.10E-04	4.10E-04	2.25E-04	2.03E-05	2.94E-04	1.82E-04	1.82E-04	9.03E-05
2120	258126.1	4085231	2.39E-04	3.46E-03	2.55E-03	2.55E-03	1.42E-03	3.63E-05	5.27E-04	3.98E-04	3.98E-04	2.19E-04	1.97E-05	2.85E-04	1.77E-04	1.77E-04	8.76E-05
2121	258150.4	4085230	2.30E-04	3.33E-03	2.46E-03	2.46E-03	1.37E-03	3.50E-05	5.08E-04	3.83E-04	3.83E-04	2.11E-04	1.90E-05	2.75E-04	1.71E-04	1.71E-04	8.44E-05
2122	258174.6	4085229	2.20E-04	3.19E-03	2.35E-03	2.35E-03	1.31E-03	3.34E-05	4.85E-04	3.67E-04	3.67E-04	2.02E-04	1.82E-05	2.63E-04	1.63E-04	1.63E-04	8.08E-05
2123	258198.9	4085228	2.09E-04	3.02E-03	2.22E-03	2.22E-03	1.24E-03	3.17E-05	4.60E-04	3.47E-04	3.47E-04	1.91E-04	1.72E-05	2.49E-04	1.54E-04	1.54E-04	7.65E-05
2124	258223.2	4085226	1.95E-04	2.82E-03	2.08E-03	2.08E-03	1.16E-03	2.96E-05	4.30E-04	3.25E-04	3.25E-04	1.79E-04	1.61E-05	2.33E-04	1.45E-04	1.45E-04	7.15E-05
2125	258247.5	4085225	1.80E-04	2.60E-03	1.92E-03	1.92E-03	1.07E-03	2.73E-05	3.96E-04	2.99E-04	2.99E-04	1.65E-04	1.48E-05	2.14E-04	1.33E-04	1.33E-04	6.59E-05
2126	258271.8	4085224	1.63E-04	2.36E-03	1.74E-03	1.74E-03	9.68E-04	2.47E-05	3.59E-04	2.71E-04	2.71E-04	1.49E-04	1.34E-05	1.94E-04	1.21E-04	1.21E-04	5.97E-05
2127	258296	4085223	1.45E-04	2.10E-03	1.54E-03	1.54E-03	8.61E-04	2.20E-05	3.19E-04	2.41E-04	2.41E-04	1.33E-04	1.19E-05	1.73E-04	1.07E-04	1.07E-04	5.31E-05
2128	258320.3	4085222	1.27E-04	1.83E-03	1.35E-03	1.35E-03	7.52E-04	1.92E-05	2.79E-04	2.11E-04	2.11E-04	1.16E-04	1.04E-05	1.51E-04	9.37E-05	9.37E-05	4.64E-05
2129	258344.6	4085221	1.09E-04	1.57E-03	1.16E-03	1.16E-03	6.47E-04	1.65E-05	2.40E-04	1.81E-04	1.81E-04	9.96E-05	8.97E-06	1.30E-04	8.06E-05	8.06E-05	3.99E-05
2130	257548.1	4085298	1.52E-04	2.20E-03	1.62E-03	1.62E-03	9.04E-04	2.31E-05	3.35E-04	2.53E-04	2.53E-04	1.39E-04	1.25E-05	1.81E-04	1.13E-04	1.13E-04	5.57E-05
2131	257526.5	4085290	1.49E-04	2.16E-03	1.59E-03	1.59E-03	8.88E-04	2.27E-05	3.29E-04	2.49E-04	2.49E-04	1.37E-04	1.23E-05	1.78E-04	1.11E-04	1.11E-04	5.47E-05
2132	257504.8	4085282	1.44E-04	2.09E-03	1.54E-03	1.54E-03	8.58E-04	2.19E-05	3.18E-04	2.40E-04	2.40E-04	1.32E-04	1.19E-05	1.72E-04	1.07E-04	1.07E-04	5.29E-05
2133	257483.2	4085274	1.37E-04	1.98E-03	1.46E-03	1.46E-03	8.14E-04	2.08E-05	3.02E-04	2.28E-04	2.28E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.02E-05
2134	257451.9	4085245	1.29E-04	1.86E-03	1.37E-03	1.37E-03	7.65E-04	1.95E-05	2.84E-04	2.14E-04	2.14E-04	1.18E-04	1.06E-05	1.54E-04	9.54E-05	9.54E-05	4.72E-05
2135	257442.2	4085224	1.26E-04	1.83E-03	1.35E-03	1.35E-03	7.51E-04	1.92E-05	2.78E-04	2.10E-04	2.10E-04	1.16E-04	1.04E-05	1.51E-04	9.36E-05	9.36E-05	4.63E-05
2136	257432.6	4085203	1.20E-04	1.73E-03	1.28E-03	1.28E-03	7.11E-04	1.82E-05	2.64E-04	1.99E-04	1.99E-04	1.09E-04	9.86E-06	1.43E-04	8.86E-05	8.86E-05	4.38E-05
2137	257422.9	4085182	1.10E-04	1.59E-03	1.17E-03	1.17E-03	6.51E-04	1.66E-05	2.41E-04	1.82E-04	1.82E-04	1.00E-04	9.03E-06	1.31E-04	8.12E-05	8.12E-05	4.02E-05
2138	257569.8	4085305	1.53E-04	2.21E-03	1.63E-03	1.63E-03	9.08E-04	2.32E-05	3.37E-04	2.54E-04	2.54E-04	1.40E-04	1.26E-05	1.82E-04	1.13E-04	1.13E-04	5.60E-05
2139	257594.1	4085304	1.61E-04	2.32E-03	1.71E-03	1.71E-03	9.54E-04	2.44E-05	3.54E-04	2.67E-04	2.67E-04	1.47E-04	1.32E-05	1.91E-04	1.19E-04	1.19E-04	5.88E-05
2140	257618.4	4085303	1.67E-04	2.42E-03	1.78E-03	1.78E-03	9.93E-04	2.53E-05	3.68E-04	2.78E-04	2.78E-04	1.53E-04	1.38E-05	1.99E-04	1.24E-04	1.24E-04	6.12E-05
2141	257642.6	4085302	1.72E-04	2.49E-03	1.84E-03	1.84E-03	1.02E-03	2.62E-05	3.80E-04	2.87E-04	2.87E-04	1.58E-04	1.42E-05	2.06E-04	1.28E-04	1.28E-04	6.32E-05
2142	257666.9	4085301	1.77E-04	2.56E-03	1.89E-03	1.89E-03	1.05E-03	2.68E-05	3.90E-04	2.94E-04	2.94E-04	1.62E-04	1.46E-05	2.11E-04	1.31E-04	1.31E-04	6.48E-05
2143	257691.2	4085300	1.81E-04	2.61E-03	1.92E-03	1.92E-03	1.07E-03	2.74E-05	3.98E-04	3.00E-04	3.00E-04	1.65E-04	1.49E-05	2.15E-04	1.34E-04	1.34E-04	6.62E-05
2144	257715.5	4085299	1.83E-04	2.65E-03	1.96E-03	1.96E-03	1.09E-03	2.78E-05	4.04E-04	3.05E-04	3.05E-04	1.68E-04	1.51E-05	2.19E-04	1.36E-04	1.36E-04	6.72E-05
2145	257739.8	4085298	1.86E-04	2.68E-03	1.98E-03	1.98E-03	1.10E-03	2.82E-05	4.09E-04	3.09E-04	3.09E-04	1.70E-04	1.53E-05	2.21E-04	1.37E-04	1.37E-04	6.80E-05
2146	257764.1	4085297	1.87E-04	2.71E-03	1.99E-03	1.99E-03	1.11E-03	2.84E-05	4.12E-04	3.11E-04	3.11E-04	1.71E-04	1.54E-05	2.23E-04	1.39E-04	1.39E-04	6.86E-05
2147	257788.3	4085296	1.88E-04	2.72E-03	2.00E-03	2.00E-03	1.12E-03	2.85E-05	4.14E-04	3.13E-04	3.13E-04	1.72E-04	1.55E-05	2.24E-04	1.39E-04	1.39E-04	6.89E-05
2148	257812.6	4085295	1.88E-04	2.71E-03	2.00E-03	2.00E-03	1.12E-03	2.85E-05	4.13E-04	3.12E-04	3.12E-04	1.72E-04	1.55E-05	2.24E-04	1.39E-04	1.39E-04	6.88E-05
2149	257836.9	4085294	1.88E-04	2.71E-03	2.00E-03	2.00E-03	1.12E-03	2.85E-05	4.14E-04	3.12E-04	3.12E-04	1.72E-04	1.55E-05	2.24E-04	1.39E-04	1.39E-04	6.88E-05
2150	257861.2	4085293	1.87E-04	2.70E-03	1.99E-03	1.99E-03	1.11E-03	2.84E-05	4.12E-04	3.11E-04	3.11E-04	1.71E-04	1.54E-05	2.23E-04	1.38E-04	1.38E-04	6.85E-05
2151	257885.5	4085291	1.86E-04	2.69E-03	1.98E-03	1.98E-03	1.11E-03	2.83E-05	4.10E-04	3.10E-04	3.10E-04	1.70E-04	1.53E-05	2.22E-04	1.38E-04	1.38E-04	6.82E-05
2152	257909.7	4085290	1.85E-04	2.68E-03	1.97E-03	1.97E-03	1.10E-03	2.81E-05	4.08E-04	3.08E-04	3.08E-04	1.69E-04	1.53E-05	2.21E-04	1.37E-04	1.37E-04	6.78E-05
2153	257934	4085289	1.83E-04	2.65E-03	1.96E-03	1.96E-03	1.09E-03	2.78E-05	4.04E-04	3.05E-04	3.05E-04	1.68E-04	1.51E-05	2.19E-04	1.36E-04	1.36E-04	6.73E-05
2154	257958.3	4085288	1.81E-04	2.62E-03	1.93E-03	1.93E-03	1.08E-03	2.75E-05	4.00E-04	3.02E-04	3.02E-04	1.66E-04	1.50E-05	2.16E-04	1.34E-04	1.34E-04	6.65E-05
2155	257982.6	4085287	1.79E-04	2.59E-03	1.91E-03	1.91E-03	1.06E-03	2.72E-05	3.94E-04	2.98E-04	2.98E-04	1.64E-04	1.48E-05	2.13E-04	1.33E-04	1.33E-04	6.56E-05
2156	258006.9	4085286	1.76E-04	2.55E-03	1.88E-03	1.88E-03	1.05E-03	2.67E-05	3.88E-04	2.93E-04	2.93E-04	1.61E-04	1.45E-05	2.10E-04	1.30E-04	1.30E-04	6.45E-05
2157	258031.2	4085285	1.73E-04	2.50E-03	1.84E-03	1.84E-03	1.03E-03	2.62E-05	3.80E-04	2.87E-04	2.87E-04	1.58E-04	1.42E-05	2.06E-04	1.28E-04	1.28E-04	6.33E-05
2158	258055.4	4085284	1.69E-04	2.44E-03	1.80E-03	1.80E-03	1.00E-03	2.56E-05	3.71E-04	2.81E-04	2.81E-04	1.54E-04	1.39E-05	2.01E-04	1.25E-04	1.25E-04	6.18E-05
2159	258079.7	4085283	1.64E-04	2.37E-03	1.75E-03	1.75E-03	9.74E-04	2.49E-05	3.61E-04	2.73E-04	2.73E-04	1.50E-04	1.35E-05	1.95E-04	1.21E-04	1.21E-04	6.01E-05

2160	258104	4085282	1.59E-04	2.30E-03	1.69E-03	1.69E-03	9.43E-04	2.41E-05	3.50E-04	2.64E-04	2.64E-04	1.45E-04	1.31E-05	1.89E-04	1.18E-04	1.18E-04	5.82E-05
2161	258128.3	4085281	1.53E-04	2.21E-03	1.63E-03	1.63E-03	9.08E-04	2.32E-05	3.37E-04	2.54E-04	2.54E-04	1.40E-04	1.26E-05	1.82E-04	1.13E-04	1.13E-04	5.60E-05
2162	258152.6	4085280	1.46E-04	2.11E-03	1.56E-03	1.56E-03	8.69E-04	2.22E-05	3.22E-04	2.43E-04	2.43E-04	1.34E-04	1.20E-05	1.74E-04	1.08E-04	1.08E-04	5.36E-05
2163	258176.8	4085279	1.39E-04	2.01E-03	1.48E-03	1.48E-03	8.24E-04	2.10E-05	3.06E-04	2.31E-04	2.31E-04	1.27E-04	1.14E-05	1.65E-04	1.03E-04	1.03E-04	5.08E-05
2164	258201.1	4085277	1.30E-04	1.89E-03	1.39E-03	1.39E-03	7.75E-04	1.98E-05	2.87E-04	2.17E-04	2.17E-04	1.19E-04	1.08E-05	1.56E-04	9.66E-05	9.66E-05	4.78E-05
2165	258225.4	4085276	1.21E-04	1.76E-03	1.29E-03	1.29E-03	7.22E-04	1.84E-05	2.68E-04	2.02E-04	2.02E-04	1.11E-04	1.00E-05	1.45E-04	8.99E-05	8.99E-05	4.45E-05
2166	258249.7	4085275	1.12E-04	1.62E-03	1.19E-03	1.19E-03	6.65E-04	1.70E-05	2.47E-04	1.86E-04	1.86E-04	1.02E-04	9.22E-06	1.33E-04	8.28E-05	8.28E-05	4.10E-05
2167	258274	4085274	1.02E-04	1.48E-03	1.09E-03	1.09E-03	6.06E-04	1.55E-05	2.25E-04	1.70E-04	1.70E-04	9.33E-05	8.41E-06	1.22E-04	7.55E-05	7.55E-05	3.74E-05
2168	258298.3	4085273	9.21E-05	1.33E-03	9.82E-04	9.82E-04	5.47E-04	1.40E-05	2.03E-04	1.53E-04	1.53E-04	8.43E-05	7.59E-06	1.10E-04	6.82E-05	6.82E-05	3.38E-05
2169	258322.5	4085272	8.24E-05	1.19E-03	8.78E-04	8.78E-04	4.90E-04	1.25E-05	1.82E-04	1.37E-04	1.37E-04	7.54E-05	6.79E-06	9.82E-05	6.10E-05	6.10E-05	3.02E-05
2170	258346.8	4085271	7.31E-05	1.06E-03	7.80E-04	7.80E-04	4.35E-04	1.11E-05	1.61E-04	1.22E-04	1.22E-04	6.69E-05	6.03E-06	8.72E-05	5.42E-05	5.42E-05	2.68E-05
2171	258371.1	4085270	6.47E-05	9.36E-04	6.90E-04	6.90E-04	3.85E-04	9.82E-06	1.43E-04	1.08E-04	1.08E-04	5.92E-05	5.33E-06	7.71E-05	4.79E-05	4.79E-05	2.37E-05
2172	257551.4	4085348	1.18E-04	1.71E-03	1.26E-03	1.26E-03	7.02E-04	1.79E-05	2.60E-04	1.96E-04	1.96E-04	1.08E-04	9.73E-06	1.41E-04	8.74E-05	8.74E-05	4.33E-05
2173	257510.1	4085333	1.16E-04	1.67E-03	1.23E-03	1.23E-03	6.87E-04	1.75E-05	2.55E-04	1.92E-04	1.92E-04	1.06E-04	9.53E-06	1.38E-04	8.56E-05	8.56E-05	4.24E-05
2174	257468.9	4085318	1.09E-04	1.57E-03	1.16E-03	1.16E-03	6.47E-04	1.65E-05	2.40E-04	1.81E-04	1.81E-04	9.96E-05	8.97E-06	1.30E-04	8.06E-05	8.06E-05	3.99E-05
2175	257418.4	4085283	9.83E-05	1.42E-03	1.05E-03	1.05E-03	5.84E-04	1.49E-05	2.17E-04	1.64E-04	1.64E-04	8.99E-05	8.10E-06	1.17E-04	7.28E-05	7.28E-05	3.60E-05
2176	257400	4085243	9.41E-05	1.36E-03	1.00E-03	1.00E-03	5.59E-04	1.43E-05	2.07E-04	1.57E-04	1.57E-04	8.61E-05	7.76E-06	1.12E-04	6.97E-05	6.97E-05	3.45E-05
2177	257381.7	4085203	8.19E-05	1.18E-03	8.73E-04	8.73E-04	4.87E-04	1.24E-05	1.80E-04	1.36E-04	1.36E-04	7.49E-05	6.75E-06	9.76E-05	6.06E-05	6.06E-05	3.00E-05
2178	257596.3	4085354	1.22E-04	1.77E-03	1.30E-03	1.30E-03	7.27E-04	1.86E-05	2.70E-04	2.04E-04	2.04E-04	1.12E-04	1.01E-05	1.46E-04	9.06E-05	9.06E-05	4.49E-05
2179	257620.6	4085353	1.26E-04	1.82E-03	1.35E-03	1.35E-03	7.50E-04	1.91E-05	2.78E-04	2.10E-04	2.10E-04	1.15E-04	1.04E-05	1.50E-04	9.34E-05	9.34E-05	4.62E-05
2180	257644.9	4085352	1.29E-04	1.87E-03	1.38E-03	1.38E-03	7.68E-04	1.96E-05	2.85E-04	2.15E-04	2.15E-04	1.18E-04	1.07E-05	1.54E-04	9.57E-05	9.57E-05	4.74E-05
2181	257669.1	4085351	1.32E-04	1.91E-03	1.41E-03	1.41E-03	7.84E-04	2.00E-05	2.91E-04	2.20E-04	2.20E-04	1.21E-04	1.09E-05	1.57E-04	9.77E-05	9.77E-05	4.84E-05
2182	257693.4	4085350	1.34E-04	1.94E-03	1.43E-03	1.43E-03	7.97E-04	2.03E-05	2.95E-04	2.23E-04	2.23E-04	1.23E-04	1.10E-05	1.60E-04	9.93E-05	9.93E-05	4.91E-05
2183	257717.7	4085349	1.36E-04	1.96E-03	1.45E-03	1.45E-03	8.07E-04	2.06E-05	2.99E-04	2.26E-04	2.26E-04	1.24E-04	1.12E-05	1.62E-04	1.01E-04	1.01E-04	4.98E-05
2184	257742	4085348	1.37E-04	1.98E-03	1.46E-03	1.46E-03	8.12E-04	2.07E-05	3.01E-04	2.27E-04	2.27E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.01E-05
2185	257766.3	4085347	1.37E-04	1.98E-03	1.46E-03	1.46E-03	8.13E-04	2.08E-05	3.01E-04	2.28E-04	2.28E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.01E-05
2186	257790.6	4085346	1.37E-04	1.98E-03	1.46E-03	1.46E-03	8.14E-04	2.08E-05	3.02E-04	2.28E-04	2.28E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.02E-05
2187	257814.8	4085345	1.37E-04	1.98E-03	1.46E-03	1.46E-03	8.14E-04	2.08E-05	3.02E-04	2.28E-04	2.28E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.02E-05
2188	257839.1	4085344	1.37E-04	1.98E-03	1.46E-03	1.46E-03	8.12E-04	2.07E-05	3.01E-04	2.27E-04	2.27E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.01E-05
2189	257863.4	4085343	1.36E-04	1.96E-03	1.45E-03	1.45E-03	8.07E-04	2.06E-05	2.99E-04	2.26E-04	2.26E-04	1.24E-04	1.12E-05	1.62E-04	1.01E-04	1.01E-04	4.98E-05
2190	257887.7	4085341	1.35E-04	1.95E-03	1.44E-03	1.44E-03	8.01E-04	2.04E-05	2.97E-04	2.24E-04	2.24E-04	1.23E-04	1.11E-05	1.61E-04	9.98E-05	9.98E-05	4.94E-05
2191	257912	4085340	1.33E-04	1.93E-03	1.42E-03	1.42E-03	7.92E-04	2.02E-05	2.94E-04	2.22E-04	2.22E-04	1.22E-04	1.10E-05	1.59E-04	9.87E-05	9.87E-05	4.89E-05
2192	257936.2	4085339	1.32E-04	1.90E-03	1.40E-03	1.40E-03	7.82E-04	2.00E-05	2.90E-04	2.19E-04	2.19E-04	1.20E-04	1.08E-05	1.57E-04	9.74E-05	9.74E-05	4.82E-05
2193	257960.5	4085338	1.30E-04	1.87E-03	1.38E-03	1.38E-03	7.70E-04	1.97E-05	2.85E-04	2.16E-04	2.16E-04	1.19E-04	1.07E-05	1.54E-04	9.59E-05	9.59E-05	4.75E-05
2194	257984.8	4085337	1.27E-04	1.84E-03	1.36E-03	1.36E-03	7.56E-04	1.93E-05	2.80E-04	2.12E-04	2.12E-04	1.16E-04	1.05E-05	1.52E-04	9.42E-05	9.42E-05	4.66E-05
2195	258009.1	4085336	1.24E-04	1.80E-03	1.33E-03	1.33E-03	7.40E-04	1.89E-05	2.74E-04	2.07E-04	2.07E-04	1.14E-04	1.03E-05	1.48E-04	9.22E-05	9.22E-05	4.56E-05
2196	258033.4	4085335	1.21E-04	1.76E-03	1.29E-03	1.29E-03	7.22E-04	1.84E-05	2.68E-04	2.02E-04	2.02E-04	1.11E-04	1.00E-05	1.45E-04	8.99E-05	8.99E-05	4.45E-05
2197	258057.7	4085334	1.18E-04	1.71E-03	1.26E-03	1.26E-03	7.02E-04	1.79E-05	2.60E-04	1.97E-04	1.97E-04	1.08E-04	9.73E-06	1.41E-04	8.74E-05	8.74E-05	4.33E-05
2198	258081.9	4085333	1.14E-04	1.65E-03	1.22E-03	1.22E-03	6.80E-04	1.74E-05	2.52E-04	1.90E-04	1.90E-04	1.05E-04	9.42E-06	1.36E-04	8.47E-05	8.47E-05	4.19E-05
2199	258106.2	4085332	1.10E-04	1.59E-03	1.17E-03	1.17E-03	6.55E-04	1.67E-05	2.43E-04	1.83E-04	1.83E-04	1.01E-04	9.08E-06	1.31E-04	8.16E-05	8.16E-05	4.04E-05
2200	258130.5	4085331	1.06E-04	1.53E-03	1.13E-03	1.13E-03	6.28E-04	1.60E-05	2.33E-04	1.76E-04	1.76E-04	9.67E-05	8.71E-06	1.26E-04	7.82E-05	7.82E-05	3.87E-05
2201	258154.8	4085330	1.01E-04	1.46E-03	1.07E-03	1.07E-03	5.98E-04	1.53E-05	2.22E-04	1.68E-04	1.68E-04	9.21E-05	8.30E-06	1.20E-04	7.45E-05	7.45E-05	3.69E-05
2202	258179.1	4085329	9.52E-05	1.38E-03	1.02E-03	1.02E-03	5.66E-04	1.45E-05	2.10E-04	1.58E-04	1.58E-04	8.71E-05	7.85E-06	1.14E-04	7.05E-05	7.05E-05	3.49E-05
2203	258203.3	4085327	8.94E-05	1.29E-03	9.53E-04	9.53E-04	5.31E-04	1.36E-05	1.97E-04	1.49E-04	1.49E-04	8.18E-05	7.37E-06	1.07E-04	6.62E-05	6.62E-05	3.28E-05
2204	258227.6	4085326	8.33E-05	1.21E-03	8.88E-04	8.88E-04	4.95E-04	1.26E-05	1.84E-04	1.39E-04	1.39E-04	7.63E-05	6.87E-06	9.93E-05	6.17E-05	6.17E-05	3.05E-05
2205	258251.9	4085325	7.72E-05	1.12E-03	8.23E-04	8.23E-04	4.59E-04	1.17E-05	1.70E-04	1.28E-04	1.28E-04	7.06E-05	6.36E-06	9.20E-05	5.72E-05	5.72E-05	2.83E-05
2206	258276.2	4085324	7.11E-05	1.03E-03	7.58E-04	7.58E-04	4.22E-04	1.08E-05	1.57E-04	1.18E-04	1.18E-04	6.50E-05	5.86E-06	8.47E-05	5.26E-05	5.26E-05	2.61E-05
2207	258300.5	4085323	6.51E-05	9.41E-04	6.94E-04	6.94E-04	3.87E-04	9.88E-06	1.43E-04	1.08E-04	1.08E-04	5.95E-05	5.36E-06	7.76E-05	4.82E-05	4.82E-05	2.39E-05
2208	258324.8	4085322	5.92E-05	8.56E-04	6.31E-04	6.31E-04	3.52E-04	8.98E-06	1.30E-04	9.85E-05	9.85E-05	5.41E-05	4.88E-06	7.05E-05	4.38E-05	4.38E-05	2.17E-05
2209	258349	4085321	5.35E-05	7.74E-04	5.71E-04	5.71E-04	3.18E-04	8.13E-06	1.18E-04	8.91E-05	8.91E-05	4.90E-05	4.41E-06	6.38E-05	3.97E-05	3.97E-05	1.96E-05
2210	258373.3	4085320	4.84E-05	7.00E-04	5.16E-04	5.16E-04	2.88E-04	7.34E-06	1.07E-04	8.05E-05	8.05E-05	4.43E-05	3.99E-06	5.77E-05	3.58E-05	3.58E-05	1.77E-05
2211	257551.7	4085397	9.48E-05	1.37E-03	1.01E-03	1.01E-03	5.63E-04	1.44E-05	2.09E-04	1.58E-04	1.58E-04	8.67E-05	7.81E-06	1.13E-04	7.02E-05	7.02E-05	3.47E-05
2212	257529.1	4085389	9.48E-05	1.37E-03	1.01E-03	1.01E-03	5.63E-04	1.44E-05	2.09E-04	1.58E-04	1.58E-04	8.67E-05	7.81E-06	1.13E-04	7.02E-05	7.02E-05	3.47E-05
2213	257506.5	4085381	9.40E-05	1.36E-03	1.00E-03	1.00E-03	5.59E-04	1.43E-05	2.07E-04	1.57E-04	1.57E-04	8.61E-05	7.75E-06	1.12E-04	6.96E-05	6.96E-05	3.45E-05
2214	257484	4085372	9.26E-05	1.34E-03	9.87E-04	9.87E-04	5.50E-04	1.41E-05	2.04E-04	1.54E-04	1.54E-04	8.47E-05	7.63E-06	1.10E-04	6.86E-05	6.86E-05	3.39E-05
2215	257461.4	4085364	9.03E-05	1.31E-03	9.63E-04	9.63E-04	5.37E-04	1.37E-05	1.99E-04	1.50E-04	1.50E-04	8.26E-05	7.44E-06	1.08E-04	6.69E-05	6.69E-05	3.31E-05
2216	257438.8	4085356	8.71E-05	1.26E-03	9.28E-04	9.28E-04	5.18E-04	1.32E-05	1.92E-04	1.45E-04	1.45E-04	7.97E-05	7.18E-06	1.04E-04	6.45E-05	6.45E-05	3.19E-05
2217	257416.3	4085348	8.30E-05	1.20E-03	8.85E-04	8.85E-04	4.93E-04	1.26E-05	1.83E-04	1.38E-04	1.38E-04	7.59E-05	6.84E-06	9.89E-05	6.15E-05	6.15E-05	3.04E-05
2218	257383.7	4085318	7.87E-05	1.14E-03	8.39E-04	8.39E-04	4.68E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.20E-05	6.49E-06	9.38E-05	5.83E-05	5.83E-05	2.88E-05
2219	257373.6	4085296	7.79E-05	1.13E-03	8.30E-04	8.30E-04	4.63E-04	1.18E-05	1.72E-04	1.30E-04	1.30E-04	7.13E-05	6.42E-06	9.28E-05	5.77E-05	5.77E-05	2.85E-05
2220	257363.6	4085274	7.55E-05	1.09E-03	8.05E-04	8.05E-04	4.49E-04	1.15E-05	1.66E-04	1.26E-04	1.26E-04	6.91E-05	6.23E-06	9.00E-05	5.59E-05	5.59E-05	2.77E-05
2221	257353.5	4085252	7.15E-05	1.03E-03	7.62E-04	7.62E-04	4.25E-04	1.09E-05	1.58E-04	1.19E-04	1.19E-04	6.54E-05	5.89E-06	8.53E-05	5.30E-05	5.30E-05	2.62E-05
2222	257343.5	4085230	6.61E-05	9.56E-04	7.05E-04	7.05E-04	3.93E-04	1.00E-05	1.46E-04	1.10E-04	1.10E-04	6.05E-05	5.45E-06	7.88E-05	4.90E-05	4.90E-05	2.42E-05
2223	257333.4	4085209	5.98E-05	8.66E-04	6.38E-04	6.38E-04	3.56E-04	9.08E-06	1.32E-04	9.96E-05	9.96E-05	5.48E-05	4.93E-06	7.13E-05	4.43E-05	4.43E-05	2.19E-05
2224	257323.4	4085187	5.33E-05	7.71E-04	5.68E-04	5.68E-04	3.17E-04	8.09E-06	1.17E-04	8.87E-05	8.87E-05	4.88E-05	4.39E-06	6.35E-05	3.95E-05	3.95E-05	1.95E-05
2225	257574.2	4085405	9.41E-05	1.36E-03	1.00E-03	1.00E-03	5.59E-04	1.43E-05	2.07E-04	1.57E-04	1.57E-04	8.61E-05	7.76E-06	1.12E-04	6.97E-05	6.97E-05	3.45E-05
2226	257598.5	4085404	9.69E-05	1.40E-03	1.03E-03	1.03E-03	5.76E-04	1.47E-05	2.13E-04	1.61E-04	1.61E-04	8.86E-05	7.98E-06	1.15E-04	7.17E-05	7.17E-05	3.55E-05
2227	257622.8	4085403	9.92E-05	1.43E-03	1.06E-03	1.06E-03	5.89E-04	1.50E-05	2.18E-04	1.65E-04	1.65E-04	9.07E-05	8.17E-06	1.18E-04	7.34E-05	7.34E-05	3.63E-05
2228	257647.1	4085402	1.01E-04	1.46E-03	1.08E-03	1.08E-03	6.00E-04	1.53E-05	2.22E-04	1.68E-04	1.68E-04	9.24E-05	8.32E-06	1.20E-04	7.48E-05	7.48E-05	3.70E-05
2229	257671.4	4085401	1.02E-04	1.48E-03	1.09E-03	1.09E-03	6.09E-04	1.55E-05	2.26E-04	1.70E-04	1.70E-04	9.37E-05	8.44E-06	1.22E-04	7.59E-05	7.59E-05	3.75E-05
2230	257695.6	4085400	1.03E-04	1.50E-03	1.10E-03	1.10E-03	6.15E-04	1.57E-05	2.28E-04	1.72E-04	1.72E-04	9.47E-05	8.53E-06	1.23E-04	7.66E-05	7.66E-05	3.79E-05
2231	257719.9	4085399	1.04E-04	1.50E-03	1.11E-03	1.11E-03	6.17E-04	1.57E-05	2.29E-04	1.73E-04	1.73E-04	9.50E-05	8.55E-06	1.24E-04	7.68E-05	7.68E-05	3.80E-05
2232	257744.2	4085398	1.04E-04	1.51E-03	1.11E-03	1.11E-03	6.20E-04	1.58E-05	2.30E-04	1.74E-04	1.74E-04	9.55E-05	8.60E-06	1.24E-04	7.73E-05	7.73E-05	3.82E-05
2233	257768.5	4085397	1.05E-04	1.51E-03	1.11E-03	1.11E-03	6.22E-04	1.59E-05	2.30E-04	1.74E-04	1.74E-04	9.57E-05	8.62E-06	1.25E-04	7.74E-05	7.74E-05	3.83E-05
2234	257792.8	4085396	1.05E-04	1.51E-03	1.11E-03	1.11E-03	6.21E-04	1.59E-05	2.30E-04	1.74E-04	1.74E-04	9.56E-05	8.61E-06	1.25E-04	7.74E-05	7.74E-05	3.83E-05
2235	257817	4085395	1.04E-04	1.51E-03	1.11E-03	1.11E-03	6.19E-04	1.58E-05	2.29E-04	1.73E-04	1.73E-04	9.53E-05	8.58E-06	1.24E-04	7.71E-05	7.71E-05	3.82E-05
2236	257841.3	4085394	1.03E-04	1.50E-03	1.10E-03	1.10E-03	6.15E-04	1.57E-05	2.28E-04	1.72E-04	1.72E-04	9.47E-05	8.53E-06	1.23E-04	7.66E-05	7.66E-05	3.79E-05
2237	257865.6	4085392	1.03E-04	1.48E-03	1.09E-03	1.09E-03	6.09E-04	1.56E-05	2.26E-04	1.71E-04	1.71E-04	9.38E-05	8.45E-06	1.22E-04	7.59E-05	7.59E-05	3.76E-05
2238	257889.9	4085391	1.01E-04	1.47E-03	1.08E-03	1.08E-03	6.03E-04	1.54E-05	2.23E-04	1.69E-04	1.69E-04	9.28E-05	8.36E-06	1.21E-04	7.51E-05	7.51E-05	3.72E-05
2239	257914.2	4085390	1.00E-04	1.45E-03	1.07E-03	1.07E-03	5.94E-04	1.52E-05	2.20E-04	1.66E-04	1.66E-04	9.15E-05	8.24E-06	1.19E-04	7.40E-05	7.40E-05	3.66E-05
2240	257938.5	4085389	9.83E-05	1.42E-03	1.05E-03	1.05E-03	5.84E-04	1.49E-05	2.17E-04	1.64E-04	1.64E-04	9.00E-05	8.11E-06	1.17E-04	7.28E-05	7.28E-05	3.60E-05
2241	257962.7	4085388	9.65E-05	1.40E-03	1.03E-03	1.03E-03	5.74E-04	1.46E-05	2.13E-04	1.61E-04	1.61E-04	8.83E-05	7.95E-06	1.15E-04	7.15E-05	7.15E-05	3.54E-05
2242	257987	4085387	9.44E-05	1.37E-03	1.01E-03	1.01E-03	5.61E-04	1.43E-05	2.08E-04	1.57E-04	1.57E-04	8.64E-05	7.78E-06	1.13E-04	6.99E-05	6.99E-05	3.46E-05
2243	258011.3	4085386	9.22E-05	1.33E-03	9.82E-04	9.82E-04	5.48E-04	1.40E-05	2.03E-04	1.53E-04	1.53E-04	8.43E-05	7.60E-06	1.10E-04	6.82E-05	6.82E-05	3.38E-05
2244	258035.6	4085385	8.97E-05	1.30E-03	9.56E-04	9.56E-04	5.33E-04	1.36E-05	1.98E-04	1.49E-04	1.49E-04	8.20E-05	7.39E-06	1.07E-04	6.64E-05	6.64E-05	3.29E-05
2245	258059.9	4085384	8.69E-05	1.26E-03	9.27E-04	9.27E-04	5.17E-04	1.32E-05	1.91E-04	1.45E-04	1.45E-04	7.95E-05	7.16E-06	1.04E-04	6.44E-05	6.44E-05	3.19E-05
2246	258084.1	4085383	8.39E-05	1.21E-03	8.95E-04	8.95E-04	4.99E-04	1.27E-05	1.85E-04	1.40E-04	1.40E-04	7.68E-05	6.92E-06	1.00E-04	6.22E-05	6.22E-05	3.08E-05
2247	258108.4	4085382	8.07E-05	1.17E-03	8.60E-04	8.60E-04	4.79E-04	1.22E-05	1.78E-04	1.34E-04	1.34E-04	7.38E-05	6.65E-06	9.62E-05	5.97E-05	5.97E-05	2.96E-05
2248	258132.7	4085381	7.71E-05	1.12E-03	8.22E-04	8.22E-04	4.58E-04	1.17E-05	1.70E-04	1.28E-04	1.28E-04	7.06E-05	6.36E-06	9.19E-05	5.71E-05	5.71E-05	2.83E-05
2249	258157	4085380	7.33E-05	1.06E-03	7.81E-04	7.81E-04	4.36E-04	1.11E-05	1.62E-04	1.22E-04	1.22E-04	6.71E-05	6.04E-06	8.74E-05	5.43E-05	5.43E-05	2.69E-05
2250	258181.3	4085378	6.93E-05	1.00E-03	7.39E-04	7.39E-04	4.12E-04	1.05E-05	1.53E-04	1.15E-04	1.15E-04	6.34E-05	5.71E-06	8.26E-05	5.13E-05	5.13E-05	2.54E-05
2251	258205.6	4085377	6.52E-05	9.42E-04	6.95E-04	6.95E-04	3.87E-04	9.89E-06	1.44E-04	1.08E-04	1.08E-04	5.96E-05	5.37E-06	7.77E-05	4.83E-05	4.83E-05	2.39E-05
2252	258229.8	4085376	6.10E-05	8.83E-04	6.51E-04	6.51E-04	3.63E-04	9.26E-06	1.34E-04	1.02E-04	1.02E-04	5.58E-05	5.03E-06	7.28E-05	4.52E-05	4.52E-05	2.24E-05
2253	258254.1	4085375	5.70E-05	8.24E-04	6.07E-04	6.07E-04	3.38E-04	8.64E-06	1.25E-04	9.48E-05	9.48E-05	5.21E-05	4.69E-06	6.79E-05	4.22E-05	4.22E-05	2.09E-05
2254	258278.4	4085374	5.29E-05	7.66E-04	5.64E-04	5.64E-04	3.15E-04	8.03E-06	1.17E-04	8.81E-05	8.81E-05	4.84E-05	4.36E-06	6.31E-05	3.92E-05	3.92E-05	1.94E-05
2255	258302.7	4085373	4.89E-05	7.08E-04	5.22E-04	5.22E-04	2.91E-04	7.43E-06	1.08E-04	8.15E-05	8.15E-05	4.48E-05	4.03E-06	5.84E-05	3.62E-05	3.62E-05	1.79E-05
2256	258327	4085372	4.50E-05	6.51E-04	4.80E-04	4.80E-04	2.68E-04	6.84E-06	9.92E-05	7.50E-05	7.50E-05	4.12E-05	3.71E-06	5.37E-05	3.34E-05	3.34E-05	1.65E-05
2257	258351.2	4085371	4.13E-05	5.98E-04	4.41E-04	4.41E-04	2.46E-04	6.27E-06	9.11E-05	6.88E-05	6.88E-05	3.78E-05	3.41E-06	4.93E-05	3.06E-05	3.06E-05	1.51E-05
2258	258375.5	4085370	3.79E-05	5.48E-04	4.04E-04	4.04E-04	2.25E-04	5.75E-06	8.35E-05	6.31E-05	6.31E-05	3.47E-05	3.12E-06	4.52E-05	2.81E-05	2.81E-05	1.39E-05
2259	257554.8	4085447	7.77E-05	1.12E-03	8.28E-04	8.28E-04	4.62E-04	1.18E-05	1.71E-04	1.29E-04	1.29E-04	7.11E-05	6.41E-06	9.27E-05	5.76E-05	5.76E-05	2.85E-05
2260	257533.1	4085439	7.82E-05	1.13E-03	8.33E-04	8.33E-04	4.65E-04	1.19E-05	1.72E-04	1.30E-04	1.30E-04	7.15E-05	6.44E-06	9.32E-05	5.79E-05	5.79E-05	2.87E-05
2261	257511.5	4085432	7.82E-05	1.13E-03	8.34E-04	8.34E-04	4.65E-04	1.19E-05	1.72E-04	1.30E-04	1.30E-04	7.16E-05	6.45E-06	9.33E-05	5.79E-05	5.79E-05	2.87E-05
2262	257489.8	4085424	7.78E-05	1.13E-03	8.30E-04	8.30E-04	4.63E-04	1.18E-05	1.72E-04	1.30E-04	1.30E-04	7.12E-05	6.42E-06	9.28E-05	5.77E-05	5.77E-05	2.85E-05

2263	257468.1	4085416	7.70E-05	1.11E-03	8.21E-04	8.21E-04	4.58E-04	1.17E-05	1.70E-04	1.28E-04	1.28E-04	7.05E-05	6.35E-06	9.18E-05	5.70E-05	5.70E-05	2.82E-05
2264	257446.5	4085408	7.57E-05	1.09E-03	8.07E-04	8.07E-04	4.50E-04	1.15E-05	1.67E-04	1.26E-04	1.26E-04	6.93E-05	6.24E-06	9.03E-05	5.61E-05	5.61E-05	2.77E-05
2265	257424.8	4085400	7.38E-05	1.07E-03	7.86E-04	7.86E-04	4.38E-04	1.12E-05	1.63E-04	1.23E-04	1.23E-04	6.75E-05	6.08E-06	8.79E-05	5.46E-05	5.46E-05	2.70E-05
2266	257403.2	4085392	7.12E-05	1.03E-03	7.59E-04	7.59E-04	4.23E-04	1.08E-05	1.57E-04	1.19E-04	1.19E-04	6.52E-05	5.87E-06	8.49E-05	5.28E-05	5.28E-05	2.61E-05
2267	257381.5	4085384	6.82E-05	9.87E-04	7.28E-04	7.28E-04	4.06E-04	1.04E-05	1.50E-04	1.14E-04	1.14E-04	6.25E-05	5.63E-06	8.14E-05	5.05E-05	5.05E-05	2.50E-05
2268	257350.2	4085355	6.52E-05	9.43E-04	6.95E-04	6.95E-04	3.88E-04	9.90E-06	1.44E-04	1.09E-04	1.09E-04	5.97E-05	5.38E-06	7.78E-05	4.83E-05	4.83E-05	2.39E-05
2269	257340.5	4085334	6.48E-05	9.37E-04	6.91E-04	6.91E-04	3.85E-04	9.83E-06	1.43E-04	1.08E-04	1.08E-04	5.93E-05	5.34E-06	7.73E-05	4.80E-05	4.80E-05	2.38E-05
2270	257330.9	4085313	6.35E-05	9.18E-04	6.77E-04	6.77E-04	3.77E-04	9.64E-06	1.40E-04	1.06E-04	1.06E-04	5.81E-05	5.23E-06	7.57E-05	4.70E-05	4.70E-05	2.33E-05
2271	257321.2	4085292	6.12E-05	8.85E-04	6.52E-04	6.52E-04	3.63E-04	9.28E-06	1.35E-04	1.02E-04	1.02E-04	5.60E-05	5.04E-06	7.29E-05	4.53E-05	4.53E-05	2.24E-05
2272	257311.6	4085271	5.78E-05	8.36E-04	6.16E-04	6.16E-04	3.43E-04	8.77E-06	1.27E-04	9.62E-05	9.62E-05	5.29E-05	4.76E-06	6.89E-05	4.28E-05	4.28E-05	2.12E-05
2273	257302	4085251	5.36E-05	7.75E-04	5.71E-04	5.71E-04	3.19E-04	8.13E-06	1.18E-04	8.92E-05	8.92E-05	4.90E-05	4.42E-06	6.39E-05	3.97E-05	3.97E-05	1.96E-05
2274	257292.3	4085230	4.89E-05	7.07E-04	5.21E-04	5.21E-04	2.90E-04	7.42E-06	1.08E-04	8.14E-05	8.14E-05	4.47E-05	4.03E-06	5.83E-05	3.62E-05	3.62E-05	1.79E-05
2275	257282.7	4085209	4.40E-05	6.37E-04	4.69E-04	4.69E-04	2.62E-04	6.68E-06	9.70E-05	7.33E-05	7.33E-05	4.03E-05	3.63E-06	5.25E-05	3.26E-05	3.26E-05	1.61E-05
2276	257273	4085188	3.93E-05	5.68E-04	4.19E-04	4.19E-04	2.34E-04	5.96E-06	8.66E-05	6.54E-05	6.54E-05	3.60E-05	3.24E-06	4.68E-05	2.91E-05	2.91E-05	1.44E-05
2277	257576.4	4085455	7.69E-05	1.11E-03	8.19E-04	8.19E-04	4.57E-04	1.17E-05	1.69E-04	1.28E-04	1.28E-04	7.03E-05	6.34E-06	9.16E-05	5.69E-05	5.69E-05	2.82E-05
2278	257600.7	4085454	7.85E-05	1.14E-03	8.37E-04	8.37E-04	4.67E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.19E-05	6.47E-06	9.36E-05	5.82E-05	5.82E-05	2.88E-05
2279	257625	4085453	7.99E-05	1.16E-03	8.52E-04	8.52E-04	4.75E-04	1.21E-05	1.76E-04	1.33E-04	1.33E-04	7.31E-05	6.59E-06	9.52E-05	5.92E-05	5.92E-05	2.93E-05
2280	257649.3	4085452	8.09E-05	1.17E-03	8.63E-04	8.63E-04	4.81E-04	1.23E-05	1.78E-04	1.35E-04	1.35E-04	7.41E-05	6.67E-06	9.65E-05	5.99E-05	5.99E-05	2.97E-05
2281	257673.6	4085451	8.14E-05	1.18E-03	8.67E-04	8.67E-04	4.84E-04	1.23E-05	1.79E-04	1.35E-04	1.35E-04	7.45E-05	6.71E-06	9.70E-05	6.03E-05	6.03E-05	2.98E-05
2282	257697.8	4085450	8.17E-05	1.18E-03	8.71E-04	8.71E-04	4.86E-04	1.24E-05	1.80E-04	1.36E-04	1.36E-04	7.48E-05	6.74E-06	9.74E-05	6.05E-05	6.05E-05	3.00E-05
2283	257722.1	4085449	8.20E-05	1.19E-03	8.75E-04	8.75E-04	4.88E-04	1.25E-05	1.81E-04	1.37E-04	1.37E-04	7.51E-05	6.76E-06	9.78E-05	6.08E-05	6.08E-05	3.01E-05
2284	257746.4	4085448	8.22E-05	1.19E-03	8.76E-04	8.76E-04	4.88E-04	1.25E-05	1.81E-04	1.37E-04	1.37E-04	7.52E-05	6.77E-06	9.80E-05	6.09E-05	6.09E-05	3.01E-05
2285	257770.7	4085447	8.21E-05	1.19E-03	8.76E-04	8.76E-04	4.88E-04	1.25E-05	1.81E-04	1.37E-04	1.37E-04	7.52E-05	6.77E-06	9.79E-05	6.08E-05	6.08E-05	3.01E-05
2286	257795	4085446	8.19E-05	1.18E-03	8.73E-04	8.73E-04	4.87E-04	1.24E-05	1.80E-04	1.36E-04	1.36E-04	7.49E-05	6.75E-06	9.76E-05	6.06E-05	6.06E-05	3.00E-05
2287	257819.3	4085445	8.14E-05	1.18E-03	8.67E-04	8.67E-04	4.84E-04	1.23E-05	1.79E-04	1.35E-04	1.35E-04	7.45E-05	6.71E-06	9.70E-05	6.03E-05	6.03E-05	2.98E-05
2288	257843.5	4085443	8.07E-05	1.17E-03	8.60E-04	8.60E-04	4.79E-04	1.22E-05	1.78E-04	1.34E-04	1.34E-04	7.38E-05	6.65E-06	9.62E-05	5.97E-05	5.97E-05	2.96E-05
2289	257867.8	4085442	7.98E-05	1.15E-03	8.50E-04	8.50E-04	4.74E-04	1.21E-05	1.76E-04	1.33E-04	1.33E-04	7.30E-05	6.57E-06	9.51E-05	5.91E-05	5.91E-05	2.92E-05
2290	257892.1	4085441	7.87E-05	1.14E-03	8.39E-04	8.39E-04	4.68E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.20E-05	6.48E-06	9.38E-05	5.83E-05	5.83E-05	2.88E-05
2291	257916.4	4085440	7.74E-05	1.12E-03	8.25E-04	8.25E-04	4.60E-04	1.17E-05	1.71E-04	1.29E-04	1.29E-04	7.08E-05	6.38E-06	9.23E-05	5.73E-05	5.73E-05	2.84E-05
2292	257940.7	4085439	7.60E-05	1.10E-03	8.10E-04	8.10E-04	4.52E-04	1.15E-05	1.67E-04	1.27E-04	1.27E-04	6.96E-05	6.27E-06	9.06E-05	5.63E-05	5.63E-05	2.79E-05
2293	257964.9	4085438	7.44E-05	1.08E-03	7.93E-04	7.93E-04	4.42E-04	1.13E-05	1.64E-04	1.24E-04	1.24E-04	6.81E-05	6.14E-06	8.87E-05	5.51E-05	5.51E-05	2.73E-05
2294	257989.2	4085437	7.27E-05	1.05E-03	7.75E-04	7.75E-04	4.32E-04	1.10E-05	1.60E-04	1.21E-04	1.21E-04	6.65E-05	5.99E-06	8.67E-05	5.38E-05	5.38E-05	2.67E-05
2295	258013.5	4085436	7.08E-05	1.02E-03	7.55E-04	7.55E-04	4.21E-04	1.07E-05	1.56E-04	1.18E-04	1.18E-04	6.48E-05	5.84E-06	8.44E-05	5.24E-05	5.24E-05	2.60E-05
2296	258037.8	4085435	6.88E-05	9.94E-04	7.33E-04	7.33E-04	4.09E-04	1.04E-05	1.52E-04	1.14E-04	1.14E-04	6.29E-05	5.67E-06	8.20E-05	5.09E-05	5.09E-05	2.52E-05
2297	258062.1	4085434	6.65E-05	9.62E-04	7.09E-04	7.09E-04	3.95E-04	1.01E-05	1.47E-04	1.11E-04	1.11E-04	6.09E-05	5.48E-06	7.93E-05	4.93E-05	4.93E-05	2.44E-05
2298	258086.4	4085433	6.41E-05	9.27E-04	6.83E-04	6.83E-04	3.81E-04	9.72E-06	1.41E-04	1.07E-04	1.07E-04	5.86E-05	5.28E-06	7.64E-05	4.74E-05	4.74E-05	2.35E-05
2299	258110.6	4085432	6.14E-05	8.89E-04	6.55E-04	6.55E-04	3.65E-04	9.32E-06	1.35E-04	1.02E-04	1.02E-04	5.62E-05	5.06E-06	7.32E-05	4.55E-05	4.55E-05	2.25E-05
2300	258134.9	4085431	5.86E-05	8.48E-04	6.25E-04	6.25E-04	3.48E-04	8.90E-06	1.29E-04	9.76E-05	9.76E-05	5.37E-05	4.83E-06	6.99E-05	4.34E-05	4.34E-05	2.15E-05
2301	258159.2	4085430	5.57E-05	8.06E-04	5.94E-04	5.94E-04	3.31E-04	8.45E-06	1.23E-04	9.27E-05	9.27E-05	5.10E-05	4.59E-06	6.64E-05	4.13E-05	4.13E-05	2.04E-05
2302	258183.5	4085428	5.27E-05	7.63E-04	5.62E-04	5.62E-04	3.13E-04	8.00E-06	1.16E-04	8.78E-05	8.78E-05	4.83E-05	4.35E-06	6.29E-05	3.91E-05	3.91E-05	1.93E-05
2303	258207.8	4085427	4.98E-05	7.20E-04	5.31E-04	5.31E-04	2.96E-04	7.56E-06	1.10E-04	8.29E-05	8.29E-05	4.56E-05	4.10E-06	5.94E-05	3.69E-05	3.69E-05	1.83E-05
2304	258232	4085426	4.69E-05	6.79E-04	5.00E-04	5.00E-04	2.79E-04	7.12E-06	1.03E-04	7.81E-05	7.81E-05	4.29E-05	3.87E-06	5.59E-05	3.47E-05	3.47E-05	1.72E-05
2305	258256.3	4085425	4.41E-05	6.37E-04	4.70E-04	4.70E-04	2.62E-04	6.69E-06	9.71E-05	7.34E-05	7.34E-05	4.03E-05	3.63E-06	5.25E-05	3.26E-05	3.26E-05	1.62E-05
2306	258280.6	4085424	4.12E-05	5.96E-04	4.40E-04	4.40E-04	2.45E-04	6.26E-06	9.09E-05	6.86E-05	6.86E-05	3.77E-05	3.40E-06	4.92E-05	3.05E-05	3.05E-05	1.51E-05
2307	258304.9	4085423	3.84E-05	5.56E-04	4.10E-04	4.10E-04	2.28E-04	5.83E-06	8.47E-05	6.40E-05	6.40E-05	3.52E-05	3.17E-06	4.58E-05	2.85E-05	2.85E-05	1.41E-05
2308	258329.2	4085422	3.57E-05	5.16E-04	3.81E-04	3.81E-04	2.12E-04	5.42E-06	7.86E-05	5.94E-05	5.94E-05	3.27E-05	2.94E-06	4.26E-05	2.64E-05	2.64E-05	1.31E-05
2309	258353.5	4085421	3.31E-05	4.79E-04	3.53E-04	3.53E-04	1.97E-04	5.02E-06	7.29E-05	5.51E-05	5.51E-05	3.03E-05	2.73E-06	3.94E-05	2.45E-05	2.45E-05	1.21E-05
2310	258377.7	4085420	3.07E-05	4.43E-04	3.27E-04	3.27E-04	1.82E-04	4.65E-06	6.75E-05	5.10E-05	5.10E-05	2.81E-05	2.53E-06	3.65E-05	2.27E-05	2.27E-05	1.12E-05
2311	257558.6	4085547	5.43E-05	7.85E-04	5.79E-04	5.79E-04	3.23E-04	8.24E-06	1.20E-04	9.04E-05	9.04E-05	4.97E-05	4.48E-06	6.47E-05	4.02E-05	4.02E-05	1.99E-05
2312	257536.4	4085539	5.53E-05	8.00E-04	5.90E-04	5.90E-04	3.29E-04	8.39E-06	1.22E-04	9.21E-05	9.21E-05	5.06E-05	4.56E-06	6.59E-05	4.10E-05	4.10E-05	2.03E-05
2313	257514.2	4085531	5.59E-05	8.08E-04	5.96E-04	5.96E-04	3.32E-04	8.48E-06	1.23E-04	9.30E-05	9.30E-05	5.11E-05	4.61E-06	6.66E-05	4.14E-05	4.14E-05	2.05E-05
2314	257492	4085523	5.63E-05	8.14E-04	6.00E-04	6.00E-04	3.34E-04	8.54E-06	1.24E-04	9.36E-05	9.36E-05	5.15E-05	4.64E-06	6.71E-05	4.17E-05	4.17E-05	2.06E-05
2315	257469.8	4085515	5.64E-05	8.16E-04	6.01E-04	6.01E-04	3.35E-04	8.56E-06	1.24E-04	9.39E-05	9.39E-05	5.16E-05	4.65E-06	6.73E-05	4.18E-05	4.18E-05	2.07E-05
2316	257447.6	4085507	5.64E-05	8.15E-04	6.01E-04	6.01E-04	3.35E-04	8.55E-06	1.24E-04	9.38E-05	9.38E-05	5.16E-05	4.65E-06	6.72E-05	4.17E-05	4.17E-05	2.07E-05
2317	257425.3	4085498	5.61E-05	8.11E-04	5.98E-04	5.98E-04	3.33E-04	8.51E-06	1.24E-04	9.33E-05	9.33E-05	5.13E-05	4.62E-06	6.68E-05	4.15E-05	4.15E-05	2.06E-05
2318	257403.1	4085490	5.55E-05	8.02E-04	5.91E-04	5.91E-04	3.30E-04	8.42E-06	1.22E-04	9.23E-05	9.23E-05	5.08E-05	4.57E-06	6.61E-05	4.11E-05	4.11E-05	2.03E-05
2319	257380.9	4085482	5.45E-05	7.88E-04	5.81E-04	5.81E-04	3.24E-04	8.27E-06	1.20E-04	9.07E-05	9.07E-05	4.99E-05	4.49E-06	6.50E-05	4.04E-05	4.04E-05	2.00E-05
2320	257358.7	4085474	5.32E-05	7.69E-04	5.67E-04	5.67E-04	3.16E-04	8.07E-06	1.17E-04	8.85E-05	8.85E-05	4.87E-05	4.38E-06	6.34E-05	3.94E-05	3.94E-05	1.95E-05
2321	257336.5	4085466	5.16E-05	7.46E-04	5.50E-04	5.50E-04	3.06E-04	7.83E-06	1.14E-04	8.58E-05	8.58E-05	4.72E-05	4.25E-06	6.15E-05	3.82E-05	3.82E-05	1.89E-05
2322	257314.3	4085458	4.98E-05	7.20E-04	5.30E-04	5.30E-04	2.96E-04	7.55E-06	1.10E-04	8.28E-05	8.28E-05	4.55E-05	4.10E-06	5.93E-05	3.69E-05	3.69E-05	1.82E-05
2323	257282.2	4085428	4.81E-05	6.95E-04	5.12E-04	5.12E-04	2.86E-04	7.29E-06	1.06E-04	8.00E-05	8.00E-05	4.40E-05	3.96E-06	5.73E-05	3.56E-05	3.56E-05	1.76E-05
2324	257272.3	4085407	4.79E-05	6.93E-04	5.11E-04	5.11E-04	2.85E-04	7.27E-06	1.06E-04	7.98E-05	7.98E-05	4.39E-05	3.95E-06	5.71E-05	3.55E-05	3.55E-05	1.76E-05
2325	257262.4	4085385	4.73E-05	6.84E-04	5.04E-04	5.04E-04	2.81E-04	7.18E-06	1.04E-04	7.88E-05	7.88E-05	4.33E-05	3.90E-06	5.64E-05	3.50E-05	3.50E-05	1.73E-05
2326	257252.5	4085364	4.62E-05	6.68E-04	4.92E-04	4.92E-04	2.74E-04	7.01E-06	1.02E-04	7.69E-05	7.69E-05	4.22E-05	3.81E-06	5.50E-05	3.42E-05	3.42E-05	1.69E-05
2327	257242.6	4085342	4.44E-05	6.42E-04	4.73E-04	4.73E-04	2.64E-04	6.74E-06	9.79E-05	7.39E-05	7.39E-05	4.06E-05	3.66E-06	5.30E-05	3.29E-05	3.29E-05	1.63E-05
2328	257232.7	4085321	4.21E-05	6.08E-04	4.48E-04	4.48E-04	2.50E-04	6.38E-06	9.27E-05	7.00E-05	7.00E-05	3.85E-05	3.47E-06	5.02E-05	3.12E-05	3.12E-05	1.54E-05
2329	257222.8	4085299	3.92E-05	5.67E-04	4.18E-04	4.18E-04	2.33E-04	5.95E-06	8.64E-05	6.53E-05	6.53E-05	3.59E-05	3.23E-06	4.68E-05	2.90E-05	2.90E-05	1.44E-05
2330	257212.9	4085278	3.61E-05	5.22E-04	3.84E-04	3.84E-04	2.14E-04	5.47E-06	7.95E-05	6.00E-05	6.00E-05	3.30E-05	2.97E-06	4.30E-05	2.67E-05	2.67E-05	1.32E-05
2331	257203	4085256	3.28E-05	4.74E-04	3.50E-04	3.50E-04	1.95E-04	4.98E-06	7.22E-05	5.46E-05	5.46E-05	3.00E-05	2.70E-06	3.91E-05	2.43E-05	2.43E-05	1.20E-05
2332	257193.1	4085235	2.96E-05	4.28E-04	3.16E-04	3.16E-04	1.76E-04	4.49E-06	6.53E-05	4.93E-05	4.93E-05	2.71E-05	2.44E-06	3.53E-05	2.19E-05	2.19E-05	1.09E-05
2333	257183.2	4085213	2.67E-05	3.86E-04	2.84E-04	2.84E-04	1.59E-04	4.05E-06	5.88E-05	4.44E-05	4.44E-05	2.44E-05	2.20E-06	3.18E-05	1.98E-05	1.98E-05	9.78E-06
2334	257173.3	4085192	2.41E-05	3.48E-04	2.57E-04	2.57E-04	1.43E-04	3.66E-06	5.31E-05	4.01E-05	4.01E-05	2.20E-05	1.99E-06	2.87E-05	1.78E-05	1.78E-05	8.83E-06
2335	257580.9	4085555	5.34E-05	7.72E-04	5.69E-04	5.69E-04	3.17E-04	8.10E-06	1.18E-04	8.88E-05	8.88E-05	4.88E-05	4.40E-06	6.36E-05	3.95E-05	3.95E-05	1.96E-05
2336	257605.1	4085554	5.39E-05	7.80E-04	5.75E-04	5.75E-04	3.21E-04	8.19E-06	1.19E-04	8.98E-05	8.98E-05	4.94E-05	4.45E-06	6.43E-05	4.00E-05	4.00E-05	1.98E-05
2337	257629.4	4085553	5.44E-05	7.86E-04	5.80E-04	5.80E-04	3.23E-04	8.25E-06	1.20E-04	9.05E-05	9.05E-05	4.98E-05	4.48E-06	6.48E-05	4.03E-05	4.03E-05	1.99E-05
2338	257653.7	4085552	5.46E-05	7.90E-04	5.83E-04	5.83E-04	3.25E-04	8.29E-06	1.20E-04	9.10E-05	9.10E-05	5.00E-05	4.50E-06	6.51E-05	4.05E-05	4.05E-05	2.00E-05
2339	257678	4085551	5.47E-05	7.92E-04	5.84E-04	5.84E-04	3.25E-04	8.31E-06	1.21E-04	9.11E-05	9.11E-05	5.01E-05	4.51E-06	6.53E-05	4.05E-05	4.05E-05	2.01E-05
2340	257702.3	4085550	5.47E-05	7.91E-04	5.83E-04	5.83E-04	3.25E-04	8.30E-06	1.21E-04	9.10E-05	9.10E-05	5.01E-05	4.51E-06	6.52E-05	4.05E-05	4.05E-05	2.01E-05
2341	257726.6	4085549	5.45E-05	7.89E-04	5.81E-04	5.81E-04	3.24E-04	8.28E-06	1.20E-04	9.08E-05	9.08E-05	4.99E-05	4.50E-06	6.50E-05	4.04E-05	4.04E-05	2.00E-05
2342	257750.8	4085548	5.43E-05	7.85E-04	5.79E-04	5.79E-04	3.23E-04	8.24E-06	1.20E-04	9.04E-05	9.04E-05	4.97E-05	4.48E-06	6.47E-05	4.02E-05	4.02E-05	1.99E-05
2343	257775.1	4085547	5.40E-05	7.81E-04	5.76E-04	5.76E-04	3.21E-04	8.20E-06	1.19E-04	8.99E-05	8.99E-05	4.94E-05	4.45E-06	6.44E-05	4.00E-05	4.00E-05	1.98E-05
2344	257799.4	4085546	5.36E-05	7.76E-04	5.72E-04	5.72E-04	3.19E-04	8.14E-06	1.18E-04	8.93E-05	8.93E-05	4.91E-05	4.42E-06	6.39E-05	3.97E-05	3.97E-05	1.97E-05
2345	257823.7	4085544	5.32E-05	7.69E-04	5.67E-04	5.67E-04	3.16E-04	8.07E-06	1.17E-04	8.85E-05	8.85E-05	4.86E-05	4.38E-06	6.34E-05	3.94E-05	3.94E-05	1.95E-05
2346	257848	4085543	5.26E-05	7.61E-04	5.61E-04	5.61E-04	3.13E-04	7.98E-06	1.16E-04	8.75E-05	8.75E-05	4.81E-05	4.33E-06	6.27E-05	3.89E-05	3.89E-05	1.93E-05
2347	257872.2	4085542	5.19E-05	7.51E-04	5.53E-04	5.53E-04	3.08E-04	7.88E-06	1.14E-04	8.64E-05	8.64E-05	4.75E-05	4.28E-06	6.19E-05	3.84E-05	3.84E-05	1.90E-05
2348	257896.5	4085541	5.11E-05	7.39E-04	5.45E-04	5.45E-04	3.04E-04	7.76E-06	1.13E-04	8.51E-05	8.51E-05	4.68E-05	4.21E-06	6.09E-05	3.78E-05	3.78E-05	1.87E-05
2349	257920.8	4085540	5.02E-05	7.26E-04	5.35E-04	5.35E-04	2.98E-04	7.62E-06	1.11E-04	8.36E-05	8.36E-05	4.59E-05	4.14E-06	5.98E-05	3.72E-05	3.72E-05	1.84E-05
2350	257945.1	4085539	4.92E-05	7.11E-04	5.24E-04	5.24E-04	2.92E-04	7.46E-06	1.08E-04	8.19E-05	8.19E-05	4.50E-05	4.05E-06	5.86E-05	3.64E-05	3.64E-05	1.80E-05
2351	257969.4	4085538	4.81E-05	6.95E-04	5.12E-04	5.12E-04	2.86E-04	7.29E-06	1.06E-04	8.00E-05	8.00E-05	4.40E-05	3.96E-06	5.73E-05	3.56E-05	3.56E-05	1.76E-05
2352	257993.7	4085537	4.68E-05	6.77E-04	4.99E-04	4.99E-04	2.78E-04	7.10E-06	1.03E-04	7.79E-05	7.79E-05	4.28E-05	3.86E-06	5.58E-05	3.47E-05	3.47E-05	1.72E-05
2353	258017.9	4085536	4.55E-05	6.57E-04	4.85E-04	4.85E-04	2.70E-04	6.90E-06	1.00E-04	7.57E-05	7.57E-05	4.16E-05	3.75E-06	5.42E-05	3.37E-05	3.37E-05	1.67E-05
2354	258042.2	4085535	4.40E-05	6.36E-04	4.69E-04	4.69E-04	2.61E-04	6.67E-06	9.69E-05	7.32E-05	7.32E-05	4.02E-05	3.62E-06	5.24E-05	3.26E-05	3.26E-05	1.61E-05
2355	258066.5	4085534	4.24E-05	6.13E-04	4.52E-04	4.52E-04	2.52E-04	6.43E-06	9.34E-05	7.05E-05	7.05E-05	3.88E-05	3.49E-06	5.05E-05	3.14E-05	3.14E-05	1.55E-05
2356	258090.8	4085533	4.07E-05	5.89E-04	4.34E-04	4.34E-04	2.42E-04	6.18E-06	8.97E-05	6.78E-05	6.78E-05	3.73E-05	3.36E-06	4.85E-05	3.02E-05	3.02E-05	1.49E-05
2357	258115.1	4085532	3.90E-05	5.64E-04	4.16E-04	4.16E-04	2.32E-04	5.92E-06	8.59E-05	6.49E-05	6.49E-05	3.57E-05	3.21E-06	4.65E-05	2.89E-05	2.89E-05	1.43E-05
2358	258139.3	4085530	3.73E-05	5.39E-04	3.97E-04	3.97E-04	2.22E-04	5.66E-06	8.22E-05	6.21E-05	6.21E-05	3.41E-05	3.07E-06	4.44E-05	2.76E-05	2.76E-05	1.37E-05
2359	258163.6	4085529	3.56E-05	5.15E-04	3.80E-04	3.80E-04	2.12E-04	5.40E-06	7.84E-05	5.93E-05	5.93E-05	3.26E-05	2.93E-06	4.24E-05	2.64E-05	2.64E-05	1.30E-05
2360	258187.9	4085528	3.40E-05	4.91E-04	3.62E-04	3.62E-04	2.02E-04	5.15E-06	7.48E-05	5.65E-05	5.65E-05	3.11E-05	2.80E-06	4.05E-05	2.51E-05	2.51E-05	1.24E-05
2361	258212.2	4085527	3.23E-05	4.68E-04	3.45E-04	3.45E-04	1.92E-04	4.91E-06	7.13E-05	5.38E-05	5.38E-05	2.96E-05	2.67E-06	3.86E-05	2.40E-05	2.40E-05	1.19E-05
2362	258236.5	4085526	3.07E-05	4.45E-04	3.28E-04	3.28E-04	1.83E-04	4.67E-06	6.77E-05	5.12E-05	5.12E-05	2.81E-05	2.53E-06	3.66E-05	2.28E-05	2.28E-05	1.13E-05
2363	258260.8	4085525	2.91E-05	4.21E-04	3.10E-04	3.10E-04	1.73E-04	4.42E-06	6.42E-05	4.85E-05	4.85E-05	2.66E-05	2.40E-06	3.47E-05	2.16E-05	2.16E-05	1.07E-05
2364	258285	4085524	2.75E-05	3.98E-04	2.93E-04	2.93E-04	1.64E-04	4.18E-06	6.06E-05	4.58E-05	4.58E-05	2.52E-05	2.27E-06	3.28E-05	2.04E-05	2.04E-05	1.01E-05
2365	258309.3	4085523	2.59E-05	3.75E-04	2.76E-04	2.76E-04	1.54E-04	3.94E-06	5.71E-05	4.32E-05	4.32E-05	2.37E-05	2.14E-06	3.09E-05	1.92E-05	1.92E-05	9.51E-06

2366	258333.6	4085522	2.44E-05	3.53E-04	2.60E-04	2.60E-04	1.45E-04	3.70E-06	5.38E-05	4.06E-05	4.06E-05	2.23E-05	2.01E-06	2.91E-05	1.81E-05	1.81E-05	8.95E-06
2367	258357.9	4085521	2.29E-05	3.32E-04	2.45E-04	2.45E-04	1.36E-04	3.48E-06	5.06E-05	3.82E-05	3.82E-05	2.10E-05	1.89E-06	2.74E-05	1.70E-05	1.70E-05	8.41E-06
2368	258382.2	4085520	2.16E-05	3.12E-04	2.30E-04	2.30E-04	1.28E-04	3.27E-06	4.75E-05	3.59E-05	3.59E-05	1.97E-05	1.78E-06	2.57E-05	1.60E-05	1.60E-05	7.91E-06
2369	257562.7	4085647	3.98E-05	5.76E-04	4.25E-04	4.25E-04	2.37E-04	6.05E-06	8.78E-05	6.63E-05	6.63E-05	3.65E-05	3.28E-06	4.75E-05	2.95E-05	2.95E-05	1.46E-05
2370	257540.2	4085639	4.06E-05	5.87E-04	4.32E-04	4.32E-04	2.41E-04	6.16E-06	8.94E-05	6.75E-05	6.75E-05	3.71E-05	3.34E-06	4.84E-05	3.00E-05	3.00E-05	1.49E-05
2371	257517.6	4085630	4.12E-05	5.96E-04	4.39E-04	4.39E-04	2.45E-04	6.25E-06	9.08E-05	6.86E-05	6.86E-05	3.77E-05	3.40E-06	4.91E-05	3.05E-05	3.05E-05	1.51E-05
2372	257495	4085622	4.18E-05	6.04E-04	4.45E-04	4.45E-04	2.48E-04	6.34E-06	9.20E-05	6.95E-05	6.95E-05	3.82E-05	3.44E-06	4.98E-05	3.09E-05	3.09E-05	1.53E-05
2373	257472.5	4085614	4.22E-05	6.10E-04	4.50E-04	4.50E-04	2.51E-04	6.40E-06	9.30E-05	7.02E-05	7.02E-05	3.86E-05	3.48E-06	5.03E-05	3.13E-05	3.13E-05	1.55E-05
2374	257449.9	4085606	4.25E-05	6.15E-04	4.53E-04	4.53E-04	2.53E-04	6.46E-06	9.37E-05	7.08E-05	7.08E-05	3.89E-05	3.51E-06	5.07E-05	3.15E-05	3.15E-05	1.56E-05
2375	257427.3	4085597	4.29E-05	6.21E-04	4.57E-04	4.57E-04	2.55E-04	6.51E-06	9.46E-05	7.14E-05	7.14E-05	3.93E-05	3.54E-06	5.12E-05	3.18E-05	3.18E-05	1.57E-05
2376	257404.8	4085589	4.31E-05	6.23E-04	4.59E-04	4.59E-04	2.56E-04	6.53E-06	9.49E-05	7.17E-05	7.17E-05	3.94E-05	3.55E-06	5.13E-05	3.19E-05	3.19E-05	1.58E-05
2377	257382.2	4085581	4.30E-05	6.22E-04	4.59E-04	4.59E-04	2.56E-04	6.53E-06	9.48E-05	7.16E-05	7.16E-05	3.94E-05	3.55E-06	5.13E-05	3.19E-05	3.19E-05	1.58E-05
2378	257359.7	4085573	4.28E-05	6.19E-04	4.56E-04	4.56E-04	2.54E-04	6.49E-06	9.43E-05	7.12E-05	7.12E-05	3.92E-05	3.53E-06	5.10E-05	3.17E-05	3.17E-05	1.57E-05
2379	257337.1	4085564	4.23E-05	6.12E-04	4.51E-04	4.51E-04	2.51E-04	6.42E-06	9.32E-05	7.04E-05	7.04E-05	3.87E-05	3.49E-06	5.04E-05	3.13E-05	3.13E-05	1.55E-05
2380	257314.5	4085556	4.16E-05	6.02E-04	4.44E-04	4.44E-04	2.47E-04	6.31E-06	9.17E-05	6.93E-05	6.93E-05	3.81E-05	3.43E-06	4.96E-05	3.08E-05	3.08E-05	1.53E-05
2381	257292	4085548	4.07E-05	5.89E-04	4.34E-04	4.34E-04	2.42E-04	6.18E-06	8.97E-05	6.78E-05	6.78E-05	3.73E-05	3.36E-06	4.86E-05	3.02E-05	3.02E-05	1.49E-05
2382	257269.4	4085540	3.97E-05	5.74E-04	4.23E-04	4.23E-04	2.36E-04	6.03E-06	8.75E-05	6.61E-05	6.61E-05	3.63E-05	3.27E-06	4.73E-05	2.94E-05	2.94E-05	1.46E-05
2383	257246.8	4085531	3.86E-05	5.59E-04	4.12E-04	4.12E-04	2.30E-04	5.86E-06	8.51E-05	6.43E-05	6.43E-05	3.53E-05	3.18E-06	4.61E-05	2.86E-05	2.86E-05	1.42E-05
2384	257214.2	4085501	3.77E-05	5.46E-04	4.02E-04	4.02E-04	2.24E-04	5.72E-06	8.31E-05	6.28E-05	6.28E-05	3.45E-05	3.11E-06	4.50E-05	2.79E-05	2.79E-05	1.38E-05
2385	257204.2	4085480	3.77E-05	5.46E-04	4.02E-04	4.02E-04	2.24E-04	5.73E-06	8.32E-05	6.28E-05	6.28E-05	3.45E-05	3.11E-06	4.50E-05	2.80E-05	2.80E-05	1.38E-05
2386	257194.1	4085458	3.75E-05	5.42E-04	4.00E-04	4.00E-04	2.23E-04	5.69E-06	8.26E-05	6.24E-05	6.24E-05	3.43E-05	3.09E-06	4.47E-05	2.78E-05	2.78E-05	1.37E-05
2387	257184.1	4085436	3.69E-05	5.34E-04	3.93E-04	3.93E-04	2.19E-04	5.60E-06	8.13E-05	6.14E-05	6.14E-05	3.38E-05	3.04E-06	4.40E-05	2.73E-05	2.73E-05	1.35E-05
2388	257174	4085414	3.59E-05	5.20E-04	3.83E-04	3.83E-04	2.14E-04	5.45E-06	7.92E-05	5.98E-05	5.98E-05	3.29E-05	2.96E-06	4.28E-05	2.66E-05	2.66E-05	1.32E-05
2389	257164	4085392	3.46E-05	5.00E-04	3.68E-04	3.68E-04	2.05E-04	5.25E-06	7.62E-05	5.75E-05	5.75E-05	3.16E-05	2.85E-06	4.12E-05	2.56E-05	2.56E-05	1.27E-05
2390	257153.9	4085370	3.28E-05	4.75E-04	3.50E-04	3.50E-04	1.95E-04	4.98E-06	7.23E-05	5.46E-05	5.46E-05	3.00E-05	2.70E-06	3.91E-05	2.43E-05	2.43E-05	1.20E-05
2391	257143.9	4085349	3.07E-05	4.45E-04	3.28E-04	3.28E-04	1.83E-04	4.67E-06	6.77E-05	5.12E-05	5.12E-05	2.81E-05	2.53E-06	3.67E-05	2.28E-05	2.28E-05	1.13E-05
2392	257133.8	4085327	2.85E-05	4.12E-04	3.03E-04	3.03E-04	1.69E-04	4.32E-06	6.27E-05	4.74E-05	4.74E-05	2.60E-05	2.35E-06	3.39E-05	2.11E-05	2.11E-05	1.04E-05
2393	257123.8	4085305	2.61E-05	3.78E-04	2.78E-04	2.78E-04	1.55E-04	3.96E-06	5.75E-05	4.34E-05	4.34E-05	2.39E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.57E-06
2394	257113.7	4085283	2.38E-05	3.44E-04	2.54E-04	2.54E-04	1.41E-04	3.61E-06	5.24E-05	3.96E-05	3.96E-05	2.18E-05	1.96E-06	2.84E-05	1.76E-05	1.76E-05	8.72E-06
2395	257103.7	4085261	2.16E-05	3.13E-04	2.31E-04	2.31E-04	1.29E-04	3.28E-06	4.76E-05	3.60E-05	3.60E-05	1.98E-05	1.78E-06	2.58E-05	1.60E-05	1.60E-05	7.93E-06
2396	257093.7	4085240	1.97E-05	2.85E-04	2.10E-04	2.10E-04	1.17E-04	2.99E-06	4.34E-05	3.28E-05	3.28E-05	1.80E-05	1.62E-06	2.35E-05	1.46E-05	1.46E-05	7.22E-06
2397	257083.6	4085218	1.80E-05	2.61E-04	1.92E-04	1.92E-04	1.07E-04	2.74E-06	3.97E-05	3.00E-05	3.00E-05	1.65E-05	1.49E-06	2.15E-05	1.33E-05	1.33E-05	6.61E-06
2398	257073.6	4085196	1.66E-05	2.41E-04	1.77E-04	1.77E-04	9.89E-05	2.52E-06	3.67E-05	2.77E-05	2.77E-05	1.52E-05	1.37E-06	1.98E-05	1.23E-05	1.23E-05	6.10E-06
2399	257585.3	4085655	3.90E-05	5.64E-04	4.16E-04	4.16E-04	2.32E-04	5.92E-06	8.60E-05	6.50E-05	6.50E-05	3.57E-05	3.22E-06	4.65E-05	2.89E-05	2.89E-05	1.43E-05
2400	257609.6	4085654	3.92E-05	5.67E-04	4.18E-04	4.18E-04	2.33E-04	5.95E-06	8.64E-05	6.53E-05	6.53E-05	3.59E-05	3.23E-06	4.67E-05	2.90E-05	2.90E-05	1.44E-05
2401	257633.9	4085653	3.93E-05	5.68E-04	4.19E-04	4.19E-04	2.34E-04	5.97E-06	8.66E-05	6.54E-05	6.54E-05	3.60E-05	3.24E-06	4.69E-05	2.91E-05	2.91E-05	1.44E-05
2402	257658.1	4085652	3.93E-05	5.69E-04	4.19E-04	4.19E-04	2.34E-04	5.97E-06	8.66E-05	6.54E-05	6.54E-05	3.60E-05	3.24E-06	4.69E-05	2.91E-05	2.91E-05	1.44E-05
2403	257682.4	4085651	3.92E-05	5.67E-04	4.18E-04	4.18E-04	2.33E-04	5.95E-06	8.64E-05	6.53E-05	6.53E-05	3.59E-05	3.23E-06	4.68E-05	2.91E-05	2.91E-05	1.44E-05
2404	257706.7	4085650	3.91E-05	5.65E-04	4.16E-04	4.16E-04	2.32E-04	5.93E-06	8.61E-05	6.50E-05	6.50E-05	3.57E-05	3.22E-06	4.66E-05	2.89E-05	2.89E-05	1.43E-05
2405	257731	4085649	3.88E-05	5.61E-04	4.14E-04	4.14E-04	2.31E-04	5.89E-06	8.55E-05	6.46E-05	6.46E-05	3.55E-05	3.20E-06	4.63E-05	2.87E-05	2.87E-05	1.42E-05
2406	257755.3	4085648	3.85E-05	5.57E-04	4.11E-04	4.11E-04	2.29E-04	5.85E-06	8.49E-05	6.41E-05	6.41E-05	3.52E-05	3.18E-06	4.59E-05	2.85E-05	2.85E-05	1.41E-05
2407	257779.5	4085647	3.82E-05	5.52E-04	4.07E-04	4.07E-04	2.27E-04	5.79E-06	8.41E-05	6.35E-05	6.35E-05	3.49E-05	3.15E-06	4.55E-05	2.83E-05	2.83E-05	1.40E-05
2408	257803.8	4085645	3.78E-05	5.47E-04	4.03E-04	4.03E-04	2.25E-04	5.74E-06	8.33E-05	6.29E-05	6.29E-05	3.46E-05	3.12E-06	4.51E-05	2.80E-05	2.80E-05	1.39E-05
2409	257828.1	4085644	3.74E-05	5.41E-04	3.99E-04	3.99E-04	2.22E-04	5.67E-06	8.24E-05	6.22E-05	6.22E-05	3.42E-05	3.08E-06	4.46E-05	2.77E-05	2.77E-05	1.37E-05
2410	257852.4	4085643	3.69E-05	5.34E-04	3.94E-04	3.94E-04	2.20E-04	5.61E-06	8.14E-05	6.15E-05	6.15E-05	3.38E-05	3.04E-06	4.40E-05	2.74E-05	2.74E-05	1.35E-05
2411	257876.7	4085642	3.63E-05	5.25E-04	3.87E-04	3.87E-04	2.16E-04	5.51E-06	8.01E-05	6.05E-05	6.05E-05	3.32E-05	2.99E-06	4.33E-05	2.69E-05	2.69E-05	1.33E-05
2412	257901	4085641	3.57E-05	5.16E-04	3.80E-04	3.80E-04	2.12E-04	5.42E-06	7.86E-05	5.94E-05	5.94E-05	3.27E-05	2.94E-06	4.25E-05	2.64E-05	2.64E-05	1.31E-05
2413	257925.2	4085640	3.50E-05	5.06E-04	3.73E-04	3.73E-04	2.08E-04	5.31E-06	7.71E-05	5.83E-05	5.83E-05	3.20E-05	2.89E-06	4.17E-05	2.59E-05	2.59E-05	1.28E-05
2414	257949.5	4085639	3.42E-05	4.95E-04	3.65E-04	3.65E-04	2.03E-04	5.20E-06	7.54E-05	5.70E-05	5.70E-05	3.13E-05	2.82E-06	4.08E-05	2.54E-05	2.54E-05	1.25E-05
2415	257973.8	4085638	3.34E-05	4.83E-04	3.56E-04	3.56E-04	1.98E-04	5.06E-06	7.35E-05	5.55E-05	5.55E-05	3.05E-05	2.75E-06	3.98E-05	2.47E-05	2.47E-05	1.22E-05
2416	257998.1	4085637	3.25E-05	4.70E-04	3.46E-04	3.46E-04	1.93E-04	4.93E-06	7.15E-05	5.40E-05	5.40E-05	2.97E-05	2.68E-06	3.87E-05	2.40E-05	2.40E-05	1.19E-05
2417	258022.4	4085636	3.15E-05	4.55E-04	3.36E-04	3.36E-04	1.87E-04	4.78E-06	6.93E-05	5.24E-05	5.24E-05	2.88E-05	2.59E-06	3.75E-05	2.33E-05	2.33E-05	1.15E-05
2418	258046.6	4085635	3.04E-05	4.40E-04	3.24E-04	3.24E-04	1.81E-04	4.61E-06	6.70E-05	5.06E-05	5.06E-05	2.78E-05	2.51E-06	3.63E-05	2.25E-05	2.25E-05	1.11E-05
2419	258070.9	4085634	2.93E-05	4.24E-04	3.13E-04	3.13E-04	1.74E-04	4.45E-06	6.46E-05	4.88E-05	4.88E-05	2.68E-05	2.42E-06	3.50E-05	2.17E-05	2.17E-05	1.07E-05
2420	258095.2	4085633	2.82E-05	4.09E-04	3.01E-04	3.01E-04	1.68E-04	4.29E-06	6.22E-05	4.70E-05	4.70E-05	2.59E-05	2.33E-06	3.37E-05	2.09E-05	2.09E-05	1.04E-05
2421	258119.5	4085631	2.72E-05	3.93E-04	2.90E-04	2.90E-04	1.62E-04	4.13E-06	5.99E-05	4.53E-05	4.53E-05	2.49E-05	2.24E-06	3.24E-05	2.01E-05	2.01E-05	9.97E-06
2422	258143.8	4085630	2.62E-05	3.79E-04	2.79E-04	2.79E-04	1.56E-04	3.97E-06	5.77E-05	4.36E-05	4.36E-05	2.40E-05	2.16E-06	3.12E-05	1.94E-05	1.94E-05	9.60E-06
2423	258168.1	4085629	2.52E-05	3.64E-04	2.68E-04	2.68E-04	1.50E-04	3.82E-06	5.55E-05	4.19E-05	4.19E-05	2.30E-05	2.08E-06	3.00E-05	1.86E-05	1.86E-05	9.23E-06
2424	258192.3	4085628	2.41E-05	3.49E-04	2.57E-04	2.57E-04	1.44E-04	3.66E-06	5.32E-05	4.02E-05	4.02E-05	2.21E-05	1.99E-06	2.88E-05	1.79E-05	1.79E-05	8.85E-06
2425	258216.6	4085627	2.30E-05	3.32E-04	2.45E-04	2.45E-04	1.37E-04	3.49E-06	5.06E-05	3.83E-05	3.83E-05	2.10E-05	1.89E-06	2.74E-05	1.70E-05	1.70E-05	8.42E-06
2426	258240.9	4085626	2.20E-05	3.18E-04	2.34E-04	2.34E-04	1.30E-04	3.33E-06	4.84E-05	3.65E-05	3.65E-05	2.01E-05	1.81E-06	2.62E-05	1.63E-05	1.63E-05	8.05E-06
2427	258265.2	4085625	2.09E-05	3.03E-04	2.23E-04	2.23E-04	1.24E-04	3.18E-06	4.61E-05	3.48E-05	3.48E-05	1.92E-05	1.73E-06	2.50E-05	1.55E-05	1.55E-05	7.67E-06
2428	258289.5	4085624	1.99E-05	2.88E-04	2.12E-04	2.12E-04	1.18E-04	3.02E-06	4.39E-05	3.32E-05	3.32E-05	1.82E-05	1.64E-06	2.38E-05	1.48E-05	1.48E-05	7.30E-06
2429	258313.7	4085623	1.89E-05	2.74E-04	2.02E-04	2.02E-04	1.13E-04	2.87E-06	4.17E-05	3.15E-05	3.15E-05	1.73E-05	1.56E-06	2.26E-05	1.40E-05	1.40E-05	6.94E-06
2430	258338	4085622	1.80E-05	2.60E-04	1.92E-04	1.92E-04	1.07E-04	2.73E-06	3.96E-05	2.99E-05	2.99E-05	1.65E-05	1.48E-06	2.14E-05	1.33E-05	1.33E-05	6.59E-06
2431	258362.3	4085621	1.71E-05	2.47E-04	1.82E-04	1.82E-04	1.01E-04	2.59E-06	3.76E-05	2.84E-05	2.84E-05	1.56E-05	1.41E-06	2.03E-05	1.26E-05	1.26E-05	6.26E-06
2432	258386.6	4085620	1.63E-05	2.35E-04	1.73E-04	1.73E-04	9.66E-05	2.47E-06	3.58E-05	2.71E-05	2.71E-05	1.49E-05	1.34E-06	1.94E-05	1.20E-05	1.20E-05	5.96E-06
2433	257566.9	4085747	3.04E-05	4.40E-04	3.24E-04	3.24E-04	1.81E-04	4.61E-06	6.70E-05	5.06E-05	5.06E-05	2.78E-05	2.51E-06	3.62E-05	2.25E-05	2.25E-05	1.11E-05
2434	257544.1	4085738	3.10E-05	4.48E-04	3.30E-04	3.30E-04	1.84E-04	4.70E-06	6.83E-05	5.16E-05	5.16E-05	2.84E-05	2.55E-06	3.70E-05	2.30E-05	2.30E-05	1.14E-05
2435	257521.3	4085730	3.16E-05	4.56E-04	3.36E-04	3.36E-04	1.88E-04	4.79E-06	6.95E-05	5.25E-05	5.25E-05	2.89E-05	2.60E-06	3.76E-05	2.34E-05	2.34E-05	1.16E-05
2436	257498.5	4085722	3.21E-05	4.64E-04	3.42E-04	3.42E-04	1.91E-04	4.87E-06	7.07E-05	5.34E-05	5.34E-05	2.93E-05	2.64E-06	3.82E-05	2.37E-05	2.37E-05	1.18E-05
2437	257475.7	4085713	3.25E-05	4.71E-04	3.47E-04	3.47E-04	1.93E-04	4.94E-06	7.17E-05	5.42E-05	5.42E-05	2.98E-05	2.68E-06	3.88E-05	2.41E-05	2.41E-05	1.19E-05
2438	257452.9	4085705	3.29E-05	4.77E-04	3.51E-04	3.51E-04	1.96E-04	5.00E-06	7.26E-05	5.48E-05	5.48E-05	3.01E-05	2.72E-06	3.93E-05	2.44E-05	2.44E-05	1.21E-05
2439	257430.1	4085697	3.33E-05	4.82E-04	3.55E-04	3.55E-04	1.98E-04	5.05E-06	7.34E-05	5.54E-05	5.54E-05	3.05E-05	2.75E-06	3.97E-05	2.47E-05	2.47E-05	1.22E-05
2440	257407.3	4085688	3.36E-05	4.86E-04	3.58E-04	3.58E-04	2.00E-04	5.10E-06	7.41E-05	5.60E-05	5.60E-05	3.08E-05	2.77E-06	4.01E-05	2.49E-05	2.49E-05	1.23E-05
2441	257384.5	4085680	3.39E-05	4.90E-04	3.61E-04	3.61E-04	2.01E-04	5.14E-06	7.46E-05	5.64E-05	5.64E-05	3.10E-05	2.79E-06	4.04E-05	2.51E-05	2.51E-05	1.24E-05
2442	257361.7	4085672	3.41E-05	4.93E-04	3.63E-04	3.63E-04	2.02E-04	5.17E-06	7.50E-05	5.67E-05	5.67E-05	3.12E-05	2.81E-06	4.06E-05	2.52E-05	2.52E-05	1.25E-05
2443	257338.9	4085663	3.41E-05	4.94E-04	3.64E-04	3.64E-04	2.03E-04	5.18E-06	7.52E-05	5.68E-05	5.68E-05	3.12E-05	2.81E-06	4.07E-05	2.53E-05	2.53E-05	1.25E-05
2444	257316.1	4085655	3.41E-05	4.94E-04	3.64E-04	3.64E-04	2.03E-04	5.18E-06	7.52E-05	5.68E-05	5.68E-05	3.12E-05	2.81E-06	4.07E-05	2.53E-05	2.53E-05	1.25E-05
2445	257293.3	4085647	3.40E-05	4.91E-04	3.62E-04	3.62E-04	2.02E-04	5.15E-06	7.48E-05	5.65E-05	5.65E-05	3.11E-05	2.80E-06	4.05E-05	2.52E-05	2.52E-05	1.24E-05
2446	257270.5	4085638	3.36E-05	4.86E-04	3.58E-04	3.58E-04	2.00E-04	5.10E-06	7.40E-05	5.59E-05	5.59E-05	3.07E-05	2.77E-06	4.01E-05	2.49E-05	2.49E-05	1.23E-05
2447	257247.7	4085630	3.31E-05	4.79E-04	3.53E-04	3.53E-04	1.97E-04	5.02E-06	7.29E-05	5.51E-05	5.51E-05	3.03E-05	2.73E-06	3.95E-05	2.45E-05	2.45E-05	1.21E-05
2448	257224.9	4085622	3.25E-05	4.71E-04	3.47E-04	3.47E-04	1.93E-04	4.94E-06	7.17E-05	5.42E-05	5.42E-05	2.98E-05	2.68E-06	3.88E-05	2.41E-05	2.41E-05	1.19E-05
2449	257202.1	4085613	3.19E-05	4.62E-04	3.40E-04	3.40E-04	1.90E-04	4.84E-06	7.03E-05	5.31E-05	5.31E-05	2.92E-05	2.63E-06	3.81E-05	2.36E-05	2.36E-05	1.17E-05
2450	257179.3	4085605	3.13E-05	4.52E-04	3.33E-04	3.33E-04	1.86E-04	4.74E-06	6.89E-05	5.20E-05	5.20E-05	2.86E-05	2.58E-06	3.73E-05	2.31E-05	2.31E-05	1.15E-05
2451	257146.3	4085575	3.08E-05	4.46E-04	3.29E-04	3.29E-04	1.83E-04	4.68E-06	6.79E-05	5.13E-05	5.13E-05	2.82E-05	2.54E-06	3.68E-05	2.28E-05	2.28E-05	1.13E-05
2452	257136.2	4085553	3.10E-05	4.48E-04	3.30E-04	3.30E-04	1.84E-04	4.70E-06	6.82E-05	5.15E-05	5.15E-05	2.83E-05	2.55E-06	3.69E-05	2.29E-05	2.29E-05	1.14E-05
2453	257126	4085531	3.09E-05	4.47E-04	3.30E-04	3.30E-04	1.84E-04	4.69E-06	6.81E-05	5.15E-05	5.15E-05	2.83E-05	2.55E-06	3.69E-05	2.29E-05	2.29E-05	1.13E-05
2454	257115.9	4085509	3.06E-05	4.43E-04	3.27E-04	3.27E-04	1.82E-04	4.65E-06	6.75E-05	5.10E-05	5.10E-05	2.80E-05	2.52E-06	3.65E-05	2.27E-05	2.27E-05	1.12E-05
2455	257105.7	4085487	3.01E-05	4.35E-04	3.21E-04	3.21E-04	1.79E-04	4.57E-06	6.63E-05	5.01E-05	5.01E-05	2.75E-05	2.48E-06	3.59E-05	2.23E-05	2.23E-05	1.10E-05
2456	257095.6	4085464	2.93E-05	4.23E-04	3.12E-04	3.12E-04	1.74E-04	4.44E-06	6.45E-05	4.87E-05	4.87E-05	2.68E-05	2.41E-06	3.49E-05	2.17E-05	2.17E-05	1.07E-05
2457	257085.4	4085442	2.82E-05	4.08E-04	3.00E-04	3.00E-04	1.68E-04	4.28E-06	6.21E-05	4.69E-05	4.69E-05	2.58E-05	2.32E-06	3.36E-05	2.09E-05	2.09E-05	1.03E-05
2458	257075.3	4085420	2.68E-05	3.88E-04	2.86E-04	2.86E-04	1.59E-04	4.07E-06	5.91E-05	4.47E-05	4.47E-05	2.46E-05	2.21E-06	3.20E-05	1.99E-05	1.99E-05	9.83E-06
2459	257065.1	4085398	2.53E-05	3.65E-04	2.69E-04	2.69E-04	1.50E-04	3.83E-06	5.56E-05	4.20E-05	4.20E-05	2.31E-05	2.08E-06	3.01E-05	1.87E-05	1.87E-05	9.26E-06
2460	257055	4085376	2.35E-05	3.40E-04	2.51E-04	2.51E-04	1.40E-04	3.57E-06	5.18E-05	3.91E-05	3.91E-05	2.15E-05	1.94E-06	2.80E-05	1.74E-05	1.74E-05	8.62E-06
2461	257044.8	4085354	2.17E-05	3.14E-04	2.32E-04	2.32E-04	1.29E-04	3.30E-06	4.79E-05	3.62E-05	3.62E-05	1.99E-05	1.79E-06	2.59E-05	1.61E-05	1.61E-05	7.96E-06
2462	257034.7	4085332	1.99E-05	2.88E-04	2.13E-04	2.13E-04	1.18E-04	3.03E-06	4.39E-05	3.32E-05	3.32E-05	1.82E-05	1.64E-06	2.38E-05	1.48E-05	1.48E-05	7.31E-06
2463	257024.5	4085310	1.83E-05	2.64E-04	1.95E-04	1.95E-04	1.08E-04	2.77E-06	4.02E-05	3.04E-05	3.04E-05	1.67E-05	1.50E-06	2.18E-05	1.35E-05	1.35E-05	6.69E-06
2464	257014.3	4085288	1.67E-05	2.42E-04	1.78E-04	1.78E-04	9.94E-05	2.54E-06	3.69E-05	2.78E-05	2.78E-05	1.53E-05	1.38E-06	1.99E-05	1.24E-05	1.24E-05	6.13E-06
2465	257004.2	4085266	1.54E-05	2.23E-04	1.64E-04	1.64E-04	9.15E-05	2.34E-06	3.39E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.64E-06
2466	256994	4085244	1.43E-05	2.06E-04	1.52E-04	1.52E-04	8.47E-05	2.16E-06	3.14E-05	2.37E-05	2.37E-05	1.30E-05	1.17E-06	1.70E-05	1.06E-05	1.06E-05	5.22E-06
2467	256983.9	4085222	1.33E-05	1.93E-04	1.42E-04	1.42E-04	7.91E-05	2.02E-06	2.93E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.86E-06	9.86E-06	4.88E-06
2468	256973.7	4085200	1.25E-05	1.81E-04	1.34E-04	1.34E-04	7.46E-05	1.90E-06	2.76E-05	2.09E-05	2.09E-05	1.15E-05	1.03E-06	1.50E-05	9.29E-06	9.29E-06	4.60E-06

2469	257589.7	4085755	2.98E-05	4.31E-04	3.17E-04	3.17E-04	1.77E-04	4.52E-06	6.56E-05	4.96E-05	4.96E-05	2.72E-05	2.45E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
2470	257614	4085754	2.98E-05	4.31E-04	3.18E-04	3.18E-04	1.77E-04	4.52E-06	6.57E-05	4.96E-05	4.96E-05	2.73E-05	2.46E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
2471	257638.3	4085753	2.98E-05	4.31E-04	3.18E-04	3.18E-04	1.77E-04	4.52E-06	6.57E-05	4.96E-05	4.96E-05	2.73E-05	2.46E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
2472	257662.6	4085752	2.97E-05	4.30E-04	3.17E-04	3.17E-04	1.77E-04	4.51E-06	6.55E-05	4.95E-05	4.95E-05	2.72E-05	2.45E-06	3.55E-05	2.20E-05	2.20E-05	1.09E-05
2473	257686.8	4085751	2.96E-05	4.28E-04	3.16E-04	3.16E-04	1.76E-04	4.50E-06	6.53E-05	4.93E-05	4.93E-05	2.71E-05	2.44E-06	3.53E-05	2.19E-05	2.19E-05	1.09E-05
2474	257711.1	4085750	2.94E-05	4.26E-04	3.14E-04	3.14E-04	1.75E-04	4.47E-06	6.49E-05	4.90E-05	4.90E-05	2.69E-05	2.43E-06	3.51E-05	2.18E-05	2.18E-05	1.08E-05
2475	257735.4	4085749	2.92E-05	4.22E-04	3.11E-04	3.11E-04	1.74E-04	4.43E-06	6.43E-05	4.86E-05	4.86E-05	2.67E-05	2.41E-06	3.48E-05	2.16E-05	2.16E-05	1.07E-05
2476	257759.7	4085747	2.89E-05	4.18E-04	3.08E-04	3.08E-04	1.72E-04	4.39E-06	6.37E-05	4.81E-05	4.81E-05	2.65E-05	2.38E-06	3.45E-05	2.14E-05	2.14E-05	1.06E-05
2477	257784	4085746	2.86E-05	4.13E-04	3.05E-04	3.05E-04	1.70E-04	4.34E-06	6.29E-05	4.75E-05	4.75E-05	2.61E-05	2.35E-06	3.41E-05	2.12E-05	2.12E-05	1.05E-05
2478	257808.2	4085745	2.81E-05	4.07E-04	3.00E-04	3.00E-04	1.67E-04	4.27E-06	6.20E-05	4.68E-05	4.68E-05	2.57E-05	2.32E-06	3.35E-05	2.08E-05	2.08E-05	1.03E-05
2479	257832.5	4085744	2.76E-05	3.99E-04	2.94E-04	2.94E-04	1.64E-04	4.19E-06	6.09E-05	4.60E-05	4.60E-05	2.53E-05	2.28E-06	3.29E-05	2.05E-05	2.05E-05	1.01E-05
2480	257856.8	4085743	2.72E-05	3.93E-04	2.90E-04	2.90E-04	1.61E-04	4.12E-06	5.98E-05	4.52E-05	4.52E-05	2.49E-05	2.24E-06	3.24E-05	2.01E-05	2.01E-05	9.96E-06
2481	257881.1	4085742	2.67E-05	3.86E-04	2.85E-04	2.85E-04	1.59E-04	4.05E-06	5.88E-05	4.44E-05	4.44E-05	2.44E-05	2.20E-06	3.18E-05	1.98E-05	1.98E-05	9.78E-06
2482	257905.4	4085741	2.62E-05	3.79E-04	2.79E-04	2.79E-04	1.56E-04	3.97E-06	5.77E-05	4.36E-05	4.36E-05	2.40E-05	2.16E-06	3.12E-05	1.94E-05	1.94E-05	9.60E-06
2483	257929.7	4085740	2.56E-05	3.70E-04	2.73E-04	2.73E-04	1.52E-04	3.89E-06	5.64E-05	4.26E-05	4.26E-05	2.34E-05	2.11E-06	3.05E-05	1.90E-05	1.90E-05	9.39E-06
2484	257953.9	4085739	2.50E-05	3.62E-04	2.66E-04	2.66E-04	1.49E-04	3.79E-06	5.51E-05	4.16E-05	4.16E-05	2.29E-05	2.06E-06	2.98E-05	1.85E-05	1.85E-05	9.16E-06
2485	257978.2	4085738	2.43E-05	3.52E-04	2.59E-04	2.59E-04	1.45E-04	3.69E-06	5.36E-05	4.05E-05	4.05E-05	2.23E-05	2.01E-06	2.90E-05	1.80E-05	1.80E-05	8.92E-06
2486	258002.5	4085737	2.36E-05	3.42E-04	2.52E-04	2.52E-04	1.40E-04	3.59E-06	5.21E-05	3.93E-05	3.93E-05	2.16E-05	1.95E-06	2.82E-05	1.75E-05	1.75E-05	8.66E-06
2487	258026.8	4085736	2.29E-05	3.32E-04	2.44E-04	2.44E-04	1.36E-04	3.48E-06	5.05E-05	3.82E-05	3.82E-05	2.10E-05	1.89E-06	2.73E-05	1.70E-05	1.70E-05	8.40E-06
2488	258051.1	4085735	2.22E-05	3.21E-04	2.37E-04	2.37E-04	1.32E-04	3.37E-06	4.89E-05	3.70E-05	3.70E-05	2.03E-05	1.83E-06	2.65E-05	1.65E-05	1.65E-05	8.14E-06
2489	258075.3	4085734	2.15E-05	3.11E-04	2.29E-04	2.29E-04	1.28E-04	3.27E-06	4.74E-05	3.58E-05	3.58E-05	1.97E-05	1.77E-06	2.57E-05	1.59E-05	1.59E-05	7.89E-06
2490	258099.6	4085732	2.09E-05	3.02E-04	2.22E-04	2.22E-04	1.24E-04	3.17E-06	4.60E-05	3.47E-05	3.47E-05	1.91E-05	1.72E-06	2.49E-05	1.54E-05	1.54E-05	7.65E-06
2491	258123.9	4085731	2.02E-05	2.92E-04	2.15E-04	2.15E-04	1.20E-04	3.07E-06	4.45E-05	3.36E-05	3.36E-05	1.85E-05	1.67E-06	2.41E-05	1.50E-05	1.50E-05	7.41E-06
2492	258148.2	4085730	1.96E-05	2.83E-04	2.08E-04	2.08E-04	1.16E-04	2.97E-06	4.31E-05	3.25E-05	3.25E-05	1.79E-05	1.61E-06	2.33E-05	1.45E-05	1.45E-05	7.17E-06
2493	258172.5	4085729	1.89E-05	2.73E-04	2.01E-04	2.01E-04	1.12E-04	2.87E-06	4.16E-05	3.14E-05	3.14E-05	1.73E-05	1.56E-06	2.25E-05	1.40E-05	1.40E-05	6.92E-06
2494	258196.8	4085728	1.82E-05	2.63E-04	1.94E-04	1.94E-04	1.08E-04	2.76E-06	4.01E-05	3.03E-05	3.03E-05	1.67E-05	1.50E-06	2.17E-05	1.35E-05	1.35E-05	6.67E-06
2495	258221	4085727	1.75E-05	2.53E-04	1.87E-04	1.87E-04	1.04E-04	2.66E-06	3.86E-05	2.92E-05	2.92E-05	1.60E-05	1.44E-06	2.09E-05	1.30E-05	1.30E-05	6.42E-06
2496	258245.3	4085726	1.68E-05	2.43E-04	1.79E-04	1.79E-04	9.99E-05	2.55E-06	3.71E-05	2.80E-05	2.80E-05	1.54E-05	1.39E-06	2.00E-05	1.25E-05	1.25E-05	6.16E-06
2497	258269.6	4085725	1.61E-05	2.33E-04	1.72E-04	1.72E-04	9.58E-05	2.45E-06	3.55E-05	2.68E-05	2.68E-05	1.48E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.91E-06
2498	258293.9	4085724	1.54E-05	2.23E-04	1.65E-04	1.65E-04	9.18E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.66E-06
2499	258318.2	4085723	1.48E-05	2.14E-04	1.57E-04	1.57E-04	8.78E-05	2.24E-06	3.25E-05	2.46E-05	2.46E-05	1.35E-05	1.22E-06	1.76E-05	1.09E-05	1.09E-05	5.41E-06
2500	258342.4	4085722	1.41E-05	2.04E-04	1.50E-04	1.50E-04	8.39E-05	2.14E-06	3.11E-05	2.35E-05	2.35E-05	1.29E-05	1.16E-06	1.68E-05	1.05E-05	1.05E-05	5.17E-06
2501	258366.7	4085721	1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.01E-05	2.05E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.61E-05	9.99E-06	9.99E-06	4.94E-06
2502	258391	4085720	1.29E-05	1.86E-04	1.37E-04	1.37E-04	7.66E-05	1.96E-06	2.84E-05	2.14E-05	2.14E-05	1.18E-05	1.06E-06	1.54E-05	9.54E-06	9.54E-06	4.72E-06
2503	257572.2	4085847	2.41E-05	3.48E-04	2.57E-04	2.57E-04	1.43E-04	3.65E-06	5.30E-05	4.01E-05	4.01E-05	2.20E-05	1.98E-06	2.87E-05	1.78E-05	1.78E-05	8.82E-06
2504	257550.2	4085839	2.45E-05	3.54E-04	2.61E-04	2.61E-04	1.46E-04	3.72E-06	5.40E-05	4.08E-05	4.08E-05	2.24E-05	2.02E-06	2.92E-05	1.81E-05	1.81E-05	8.98E-06
2505	257528.2	4085831	2.49E-05	3.60E-04	2.66E-04	2.66E-04	1.48E-04	3.78E-06	5.49E-05	4.15E-05	4.15E-05	2.28E-05	2.05E-06	2.97E-05	1.85E-05	1.85E-05	9.13E-06
2506	257506.2	4085823	2.53E-05	3.66E-04	2.70E-04	2.70E-04	1.50E-04	3.84E-06	5.58E-05	4.21E-05	4.21E-05	2.32E-05	2.09E-06	3.02E-05	1.88E-05	1.88E-05	9.28E-06
2507	257484.3	4085815	2.57E-05	3.72E-04	2.74E-04	2.74E-04	1.53E-04	3.90E-06	5.66E-05	4.28E-05	4.28E-05	2.35E-05	2.12E-06	3.06E-05	1.90E-05	1.90E-05	9.42E-06
2508	257462.3	4085807	2.61E-05	3.77E-04	2.78E-04	2.78E-04	1.55E-04	3.96E-06	5.74E-05	4.34E-05	4.34E-05	2.39E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.56E-06
2509	257440.3	4085799	2.64E-05	3.82E-04	2.82E-04	2.82E-04	1.57E-04	4.01E-06	5.82E-05	4.40E-05	4.40E-05	2.42E-05	2.18E-06	3.15E-05	1.96E-05	1.96E-05	9.68E-06
2510	257418.3	4085791	2.67E-05	3.87E-04	2.85E-04	2.85E-04	1.59E-04	4.06E-06	5.89E-05	4.45E-05	4.45E-05	2.45E-05	2.20E-06	3.19E-05	1.98E-05	1.98E-05	9.80E-06
2511	257396.4	4085783	2.70E-05	3.91E-04	2.88E-04	2.88E-04	1.61E-04	4.10E-06	5.95E-05	4.50E-05	4.50E-05	2.47E-05	2.23E-06	3.22E-05	2.00E-05	2.00E-05	9.90E-06
2512	257374.4	4085775	2.73E-05	3.95E-04	2.91E-04	2.91E-04	1.62E-04	4.14E-06	6.01E-05	4.54E-05	4.54E-05	2.50E-05	2.25E-06	3.25E-05	2.02E-05	2.02E-05	1.00E-05
2513	257352.4	4085767	2.75E-05	3.98E-04	2.94E-04	2.94E-04	1.64E-04	4.18E-06	6.07E-05	4.59E-05	4.59E-05	2.52E-05	2.27E-06	3.28E-05	2.04E-05	2.04E-05	1.01E-05
2514	257330.4	4085759	2.78E-05	4.02E-04	2.96E-04	2.96E-04	1.65E-04	4.21E-06	6.12E-05	4.62E-05	4.62E-05	2.54E-05	2.29E-06	3.31E-05	2.06E-05	2.06E-05	1.02E-05
2515	257308.5	4085751	2.79E-05	4.04E-04	2.98E-04	2.98E-04	1.66E-04	4.24E-06	6.15E-05	4.65E-05	4.65E-05	2.55E-05	2.30E-06	3.33E-05	2.07E-05	2.07E-05	1.02E-05
2516	257286.5	4085743	2.80E-05	4.05E-04	2.98E-04	2.98E-04	1.66E-04	4.25E-06	6.17E-05	4.66E-05	4.66E-05	2.56E-05	2.31E-06	3.34E-05	2.07E-05	2.07E-05	1.03E-05
2517	257264.5	4085735	2.80E-05	4.04E-04	2.98E-04	2.98E-04	1.66E-04	4.24E-06	6.16E-05	4.65E-05	4.65E-05	2.56E-05	2.31E-06	3.33E-05	2.07E-05	2.07E-05	1.03E-05
2518	257242.5	4085726	2.78E-05	4.03E-04	2.97E-04	2.97E-04	1.65E-04	4.23E-06	6.14E-05	4.63E-05	4.63E-05	2.55E-05	2.30E-06	3.32E-05	2.06E-05	2.06E-05	1.02E-05
2519	257220.6	4085718	2.77E-05	4.00E-04	2.95E-04	2.95E-04	1.65E-04	4.20E-06	6.10E-05	4.61E-05	4.61E-05	2.53E-05	2.28E-06	3.30E-05	2.05E-05	2.05E-05	1.01E-05
2520	257198.6	4085710	2.74E-05	3.97E-04	2.93E-04	2.93E-04	1.63E-04	4.17E-06	6.05E-05	4.57E-05	4.57E-05	2.51E-05	2.26E-06	3.27E-05	2.03E-05	2.03E-05	1.01E-05
2521	257176.6	4085702	2.71E-05	3.92E-04	2.89E-04	2.89E-04	1.61E-04	4.12E-06	5.98E-05	4.52E-05	4.52E-05	2.48E-05	2.24E-06	3.23E-05	2.01E-05	2.01E-05	9.95E-06
2522	257154.6	4085694	2.68E-05	3.87E-04	2.86E-04	2.86E-04	1.59E-04	4.07E-06	5.90E-05	4.46E-05	4.46E-05	2.45E-05	2.21E-06	3.19E-05	1.98E-05	1.98E-05	9.82E-06
2523	257132.7	4085686	2.64E-05	3.82E-04	2.82E-04	2.82E-04	1.57E-04	4.01E-06	5.82E-05	4.40E-05	4.40E-05	2.42E-05	2.18E-06	3.15E-05	1.96E-05	1.96E-05	9.69E-06
2524	257110.7	4085678	2.60E-05	3.77E-04	2.78E-04	2.78E-04	1.55E-04	3.95E-06	5.74E-05	4.34E-05	4.34E-05	2.38E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.55E-06
2525	257078.9	4085649	2.59E-05	3.75E-04	2.76E-04	2.76E-04	1.54E-04	3.93E-06	5.71E-05	4.32E-05	4.32E-05	2.37E-05	2.14E-06	3.09E-05	1.92E-05	1.92E-05	9.50E-06
2526	257069.1	4085628	2.61E-05	3.78E-04	2.78E-04	2.78E-04	1.55E-04	3.96E-06	5.76E-05	4.35E-05	4.35E-05	2.39E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.58E-06
2527	257059.4	4085607	2.62E-05	3.79E-04	2.79E-04	2.79E-04	1.56E-04	3.98E-06	5.77E-05	4.36E-05	4.36E-05	2.40E-05	2.16E-06	3.12E-05	1.94E-05	1.94E-05	9.60E-06
2528	257049.6	4085585	2.61E-05	3.78E-04	2.79E-04	2.79E-04	1.55E-04	3.97E-06	5.76E-05	4.35E-05	4.35E-05	2.39E-05	2.15E-06	3.12E-05	1.94E-05	1.94E-05	9.58E-06
2529	257039.8	4085564	2.59E-05	3.75E-04	2.76E-04	2.76E-04	1.54E-04	3.93E-06	5.71E-05	4.31E-05	4.31E-05	2.37E-05	2.14E-06	3.09E-05	1.92E-05	1.92E-05	9.50E-06
2530	257030	4085543	2.55E-05	3.69E-04	2.72E-04	2.72E-04	1.52E-04	3.87E-06	5.62E-05	4.24E-05	4.24E-05	2.33E-05	2.10E-06	3.04E-05	1.89E-05	1.89E-05	9.35E-06
2531	257020.2	4085522	2.49E-05	3.60E-04	2.65E-04	2.65E-04	1.48E-04	3.78E-06	5.49E-05	4.14E-05	4.14E-05	2.28E-05	2.05E-06	2.97E-05	1.84E-05	1.84E-05	9.13E-06
2532	257010.4	4085500	2.41E-05	3.49E-04	2.57E-04	2.57E-04	1.43E-04	3.66E-06	5.31E-05	4.01E-05	4.01E-05	2.21E-05	1.99E-06	2.87E-05	1.79E-05	1.79E-05	8.84E-06
2533	257000.6	4085479	2.31E-05	3.35E-04	2.47E-04	2.47E-04	1.38E-04	3.51E-06	5.10E-05	3.85E-05	3.85E-05	2.12E-05	1.91E-06	2.76E-05	1.71E-05	1.71E-05	8.48E-06
2534	256990.9	4085458	2.20E-05	3.18E-04	2.35E-04	2.35E-04	1.31E-04	3.34E-06	4.85E-05	3.66E-05	3.66E-05	2.01E-05	1.81E-06	2.62E-05	1.63E-05	1.63E-05	8.06E-06
2535	256981.1	4085437	2.07E-05	3.00E-04	2.21E-04	2.21E-04	1.23E-04	3.15E-06	4.57E-05	3.45E-05	3.45E-05	1.90E-05	1.71E-06	2.47E-05	1.54E-05	1.54E-05	7.60E-06
2536	256971.3	4085415	1.94E-05	2.81E-04	2.07E-04	2.07E-04	1.15E-04	2.94E-06	4.27E-05	3.23E-05	3.23E-05	1.78E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.11E-06
2537	256961.5	4085394	1.80E-05	2.61E-04	1.92E-04	1.92E-04	1.07E-04	2.74E-06	3.97E-05	3.00E-05	3.00E-05	1.65E-05	1.49E-06	2.15E-05	1.34E-05	1.34E-05	6.61E-06
2538	256951.7	4085373	1.67E-05	2.41E-04	1.78E-04	1.78E-04	9.92E-05	2.53E-06	3.68E-05	2.78E-05	2.78E-05	1.53E-05	1.38E-06	1.99E-05	1.24E-05	1.24E-05	6.12E-06
2539	256941.9	4085352	1.54E-05	2.23E-04	1.64E-04	1.64E-04	9.16E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.65E-06
2540	256932.1	4085330	1.43E-05	2.06E-04	1.52E-04	1.52E-04	8.47E-05	2.16E-06	3.14E-05	2.37E-05	2.37E-05	1.30E-05	1.18E-06	1.70E-05	1.06E-05	1.06E-05	5.23E-06
2541	256922.4	4085309	1.32E-05	1.91E-04	1.41E-04	1.41E-04	7.86E-05	2.01E-06	2.91E-05	2.20E-05	2.20E-05	1.21E-05	1.09E-06	1.58E-05	9.79E-06	9.79E-06	4.85E-06
2542	256912.6	4085288	1.23E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2543	256902.8	4085267	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.89E-05	1.76E-06	2.56E-05	1.93E-05	1.93E-05	1.06E-05	9.56E-07	1.38E-05	8.59E-06	8.59E-06	4.25E-06
2544	256893	4085245	1.10E-05	1.59E-04	1.17E-04	1.17E-04	6.53E-05	1.67E-06	2.42E-05	1.83E-05	1.83E-05	1.00E-05	9.05E-07	1.31E-05	8.13E-06	8.13E-06	4.02E-06
2545	256883.2	4085224	1.05E-05	1.51E-04	1.12E-04	1.12E-04	6.22E-05	1.59E-06	2.31E-05	1.74E-05	1.74E-05	9.57E-06	8.62E-07	1.25E-05	7.75E-06	7.75E-06	3.84E-06
2546	256873.4	4085203	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.96E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.18E-06	8.27E-07	1.20E-05	7.43E-06	7.43E-06	3.68E-06
2547	257594.1	4085855	2.36E-05	3.42E-04	2.52E-04	2.52E-04	1.40E-04	3.58E-06	5.20E-05	3.93E-05	3.93E-05	2.16E-05	1.95E-06	2.82E-05	1.75E-05	1.75E-05	8.66E-06
2548	257618.4	4085854	2.36E-05	3.41E-04	2.51E-04	2.51E-04	1.40E-04	3.58E-06	5.20E-05	3.93E-05	3.93E-05	2.16E-05	1.94E-06	2.81E-05	1.75E-05	1.75E-05	8.65E-06
2549	257642.7	4085853	2.35E-05	3.40E-04	2.51E-04	2.51E-04	1.40E-04	3.57E-06	5.18E-05	3.92E-05	3.92E-05	2.15E-05	1.94E-06	2.81E-05	1.74E-05	1.74E-05	8.63E-06
2550	257667	4085852	2.34E-05	3.39E-04	2.50E-04	2.50E-04	1.39E-04	3.56E-06	5.16E-05	3.90E-05	3.90E-05	2.14E-05	1.93E-06	2.79E-05	1.74E-05	1.74E-05	8.59E-06
2551	257691.3	4085851	2.33E-05	3.37E-04	2.48E-04	2.48E-04	1.38E-04	3.53E-06	5.13E-05	3.88E-05	3.88E-05	2.13E-05	1.92E-06	2.78E-05	1.72E-05	1.72E-05	8.54E-06
2552	257715.5	4085850	2.31E-05	3.34E-04	2.46E-04	2.46E-04	1.37E-04	3.51E-06	5.09E-05	3.84E-05	3.84E-05	2.11E-05	1.90E-06	2.75E-05	1.71E-05	1.71E-05	8.47E-06
2553	257739.8	4085848	2.29E-05	3.31E-04	2.44E-04	2.44E-04	1.36E-04	3.47E-06	5.04E-05	3.80E-05	3.80E-05	2.09E-05	1.88E-06	2.72E-05	1.69E-05	1.69E-05	8.38E-06
2554	257764.1	4085847	2.25E-05	3.25E-04	2.39E-04	2.39E-04	1.33E-04	3.41E-06	4.95E-05	3.74E-05	3.74E-05	2.05E-05	1.85E-06	2.68E-05	1.66E-05	1.66E-05	8.23E-06
2555	257788.4	4085846	2.21E-05	3.20E-04	2.36E-04	2.36E-04	1.31E-04	3.35E-06	4.87E-05	3.68E-05	3.68E-05	2.02E-05	1.82E-06	2.64E-05	1.64E-05	1.64E-05	8.10E-06
2556	257812.7	4085845	2.17E-05	3.14E-04	2.32E-04	2.32E-04	1.29E-04	3.30E-06	4.79E-05	3.62E-05	3.62E-05	1.99E-05	1.79E-06	2.59E-05	1.61E-05	1.61E-05	7.97E-06
2557	257837	4085844	2.13E-05	3.09E-04	2.27E-04	2.27E-04	1.27E-04	3.24E-06	4.70E-05	3.55E-05	3.55E-05	1.95E-05	1.76E-06	2.54E-05	1.58E-05	1.58E-05	7.82E-06
2558	257861.2	4085843	2.09E-05	3.03E-04	2.23E-04	2.23E-04	1.24E-04	3.17E-06	4.61E-05	3.48E-05	3.48E-05	1.91E-05	1.72E-06	2.49E-05	1.55E-05	1.55E-05	7.67E-06
2559	257885.5	4085842	2.05E-05	2.96E-04	2.18E-04	2.18E-04	1.22E-04	3.11E-06	4.51E-05	3.41E-05	3.41E-05	1.87E-05	1.69E-06	2.44E-05	1.52E-05	1.52E-05	7.51E-06
2560	257909.8	4085841	2.00E-05	2.90E-04	2.13E-04	2.13E-04	1.19E-04	3.04E-06	4.41E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.39E-05	1.48E-05	1.48E-05	7.34E-06
2561	257934.1	4085840	1.96E-05	2.83E-04	2.08E-04	2.08E-04	1.16E-04	2.97E-06	4.31E-05	3.25E-05	3.25E-05	1.79E-05	1.61E-06	2.33E-05	1.45E-05	1.45E-05	7.17E-06
2562	257958.4	4085839	1.91E-05	2.76E-04	2.03E-04	2.03E-04	1.13E-04	2.90E-06	4.21E-05	3.18E-05	3.18E-05	1.75E-05	1.57E-06	2.28E-05	1.41E-05	1.41E-05	7.00E-06
2563	257982.6	4085838	1.86E-05	2.69E-04	1.98E-04	1.98E-04	1.11E-04	2.83E-06	4.10E-05	3.10E-05	3.10E-05	1.70E-05	1.53E-06	2.22E-05	1.38E-05	1.38E-05	6.82E-06
2564	258006.9	4085837	1.82E-05	2.63E-04	1.94E-04	1.94E-04	1.08E-04	2.76E-06	4.00E-05	3.02E-05	3.02E-05	1.66E-05	1.50E-06	2.16E-05	1.34E-05	1.34E-05	6.66E-06
2565	258031.2	4085836	1.77E-05	2.56E-04	1.89E-04	1.89E-04	1.05E-04	2.69E-06	3.90E-05	2.95E-05	2.95E-05	1.62E-05	1.46E-06	2.11E-05	1.31E-05	1.31E-05	6.49E-06
2566	258055.5	4085834	1.73E-05	2.50E-04	1.84E-04	1.84E-04	1.03E-04	2.62E-06	3.80E-05	2.87E-05	2.87E-05	1.58E-05	1.42E-06	2.06E-05	1.28E-05	1.28E-05	6.32E-06
2567	258079.8	4085833	1.68E-05	2.43E-04	1.79E-04	1.79E-04	9.99E-05	2.55E-06	3.70E-05	2.80E-05	2.80E-05	1.54E-05	1.39E-06	2.00E-05	1.24E-05	1.24E-05	6.16E-06
2568	258104.1	4085832	1.64E-05	2.37E-04	1.74E-04	1.74E-04	9.73E-05	2.48E-06	3.61E-05	2.72E-05	2.72E-05	1.50E-05	1.35E-06	1.95E-05	1.21E-05	1.21E-05	6.00E-06
2569	258128.3	4085831	1.59E-05	2.30E-04	1.70E-04	1.70E-04	9.46E-05	2.41E-06	3.51E-05	2.65E-05	2.65E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.83E-06
2570	258152.6	4085830	1.54E-05	2.23E-04	1.65E-04	1.65E-04	9.18E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.66E-06
2571	258176.9	4085829	1.50E-05	2.16E-04	1.59E-04	1.59E-04	8.89E-05	2.27E-06	3.29E-05	2.49E-05	2.49E-05	1.37E-05	1.23E-06	1.78E-05	1.11E-05	1.11E-05	5.48E-06

2572	258201.2	4085828	1.45E-05	2.09E-04	1.54E-04	1.54E-04	8.59E-05	2.19E-06	3.18E-05	2.41E-05	2.41E-05	1.32E-05	1.19E-06	1.72E-05	1.07E-05	1.07E-05	5.30E-06
2573	258225.5	4085827	1.40E-05	2.02E-04	1.49E-04	1.49E-04	8.29E-05	2.12E-06	3.07E-05	2.32E-05	2.32E-05	1.28E-05	1.15E-06	1.66E-05	1.03E-05	1.03E-05	5.12E-06
2574	258249.7	4085826	1.35E-05	1.95E-04	1.43E-04	1.43E-04	8.00E-05	2.04E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.60E-05	9.97E-06	9.97E-06	4.93E-06
2575	258274	4085825	1.30E-05	1.88E-04	1.38E-04	1.38E-04	7.71E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.60E-06	9.60E-06	4.75E-06
2576	258298.3	4085824	1.25E-05	1.81E-04	1.33E-04	1.33E-04	7.42E-05	1.90E-06	2.75E-05	2.08E-05	2.08E-05	1.14E-05	1.03E-06	1.49E-05	9.25E-06	9.25E-06	4.58E-06
2577	258322.6	4085823	1.20E-05	1.74E-04	1.28E-04	1.28E-04	7.14E-05	1.82E-06	2.65E-05	2.00E-05	2.00E-05	1.10E-05	9.90E-07	1.43E-05	8.90E-06	8.90E-06	4.40E-06
2578	258346.9	4085822	1.16E-05	1.67E-04	1.23E-04	1.23E-04	6.87E-05	1.75E-06	2.55E-05	1.92E-05	1.92E-05	1.06E-05	9.52E-07	1.38E-05	8.56E-06	8.56E-06	4.24E-06
2579	258371.2	4085821	1.11E-05	1.61E-04	1.18E-04	1.18E-04	6.60E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.15E-07	1.32E-05	8.23E-06	8.23E-06	4.07E-06
2580	258395.4	4085819	1.07E-05	1.54E-04	1.14E-04	1.14E-04	6.34E-05	1.62E-06	2.35E-05	1.78E-05	1.78E-05	9.77E-06	8.80E-07	1.27E-05	7.90E-06	7.90E-06	3.91E-06
2581	257580.6	4086047	1.64E-05	2.37E-04	1.74E-04	1.74E-04	9.72E-05	2.48E-06	3.61E-05	2.72E-05	2.72E-05	1.50E-05	1.35E-06	1.95E-05	1.21E-05	1.21E-05	6.00E-06
2582	257558.2	4086038	1.67E-05	2.41E-04	1.78E-04	1.78E-04	9.92E-05	2.53E-06	3.68E-05	2.78E-05	2.78E-05	1.53E-05	1.38E-06	1.99E-05	1.24E-05	1.24E-05	6.12E-06
2583	257535.8	4086030	1.70E-05	2.46E-04	1.81E-04	1.81E-04	1.01E-04	2.58E-06	3.75E-05	2.83E-05	2.83E-05	1.56E-05	1.40E-06	2.03E-05	1.26E-05	1.26E-05	6.24E-06
2584	257513.4	4086022	1.73E-05	2.50E-04	1.84E-04	1.84E-04	1.03E-04	2.63E-06	3.81E-05	2.88E-05	2.88E-05	1.58E-05	1.43E-06	2.06E-05	1.28E-05	1.28E-05	6.34E-06
2585	257490.9	4086014	1.76E-05	2.54E-04	1.87E-04	1.87E-04	1.04E-04	2.67E-06	3.87E-05	2.92E-05	2.92E-05	1.61E-05	1.45E-06	2.09E-05	1.30E-05	1.30E-05	6.44E-06
2586	257468.5	4086006	1.78E-05	2.58E-04	1.90E-04	1.90E-04	1.06E-04	2.70E-06	3.92E-05	2.96E-05	2.96E-05	1.63E-05	1.47E-06	2.12E-05	1.32E-05	1.32E-05	6.53E-06
2587	257446.1	4085997	1.80E-05	2.61E-04	1.92E-04	1.92E-04	1.07E-04	2.74E-06	3.98E-05	3.00E-05	3.00E-05	1.65E-05	1.49E-06	2.15E-05	1.34E-05	1.34E-05	6.61E-06
2588	257423.7	4085989	1.83E-05	2.64E-04	1.95E-04	1.95E-04	1.09E-04	2.77E-06	4.02E-05	3.04E-05	3.04E-05	1.67E-05	1.51E-06	2.18E-05	1.35E-05	1.35E-05	6.69E-06
2589	257401.3	4085981	1.85E-05	2.67E-04	1.97E-04	1.97E-04	1.10E-04	2.80E-06	4.07E-05	3.07E-05	3.07E-05	1.69E-05	1.52E-06	2.20E-05	1.37E-05	1.37E-05	6.77E-06
2590	257378.9	4085973	1.87E-05	2.70E-04	1.99E-04	1.99E-04	1.11E-04	2.83E-06	4.11E-05	3.11E-05	3.11E-05	1.71E-05	1.54E-06	2.23E-05	1.38E-05	1.38E-05	6.85E-06
2591	257356.5	4085965	1.89E-05	2.73E-04	2.01E-04	2.01E-04	1.12E-04	2.86E-06	4.16E-05	3.14E-05	3.14E-05	1.73E-05	1.56E-06	2.25E-05	1.40E-05	1.40E-05	6.92E-06
2592	257334.1	4085956	1.91E-05	2.76E-04	2.03E-04	2.03E-04	1.13E-04	2.90E-06	4.20E-05	3.18E-05	3.18E-05	1.75E-05	1.57E-06	2.27E-05	1.41E-05	1.41E-05	6.99E-06
2593	257311.7	4085948	1.93E-05	2.79E-04	2.06E-04	2.06E-04	1.15E-04	2.93E-06	4.25E-05	3.21E-05	3.21E-05	1.76E-05	1.59E-06	2.30E-05	1.43E-05	1.43E-05	7.07E-06
2594	257289.3	4085940	1.95E-05	2.82E-04	2.08E-04	2.08E-04	1.16E-04	2.96E-06	4.30E-05	3.24E-05	3.24E-05	1.78E-05	1.61E-06	2.32E-05	1.44E-05	1.44E-05	7.15E-06
2595	257266.9	4085932	1.97E-05	2.85E-04	2.10E-04	2.10E-04	1.17E-04	2.99E-06	4.34E-05	3.28E-05	3.28E-05	1.80E-05	1.62E-06	2.35E-05	1.46E-05	1.46E-05	7.22E-06
2596	257244.5	4085924	1.99E-05	2.87E-04	2.12E-04	2.12E-04	1.18E-04	3.01E-06	4.38E-05	3.31E-05	3.31E-05	1.82E-05	1.64E-06	2.37E-05	1.47E-05	1.47E-05	7.28E-06
2597	257222.1	4085916	2.00E-05	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.04E-06	4.41E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.38E-05	1.48E-05	1.48E-05	7.33E-06
2598	257199.6	4085907	2.01E-05	2.91E-04	2.14E-04	2.14E-04	1.19E-04	3.05E-06	4.43E-05	3.34E-05	3.34E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.36E-06
2599	257177.2	4085899	2.01E-05	2.91E-04	2.15E-04	2.15E-04	1.20E-04	3.05E-06	4.43E-05	3.35E-05	3.35E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.38E-06
2600	257154.8	4085891	2.01E-05	2.91E-04	2.14E-04	2.14E-04	1.19E-04	3.05E-06	4.43E-05	3.35E-05	3.35E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.37E-06
2601	257132.4	4085883	2.00E-05	2.90E-04	2.14E-04	2.14E-04	1.19E-04	3.04E-06	4.42E-05	3.34E-05	3.34E-05	1.83E-05	1.65E-06	2.39E-05	1.48E-05	1.48E-05	7.35E-06
2602	257110	4085875	2.00E-05	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.03E-06	4.40E-05	3.32E-05	3.32E-05	1.83E-05	1.64E-06	2.38E-05	1.48E-05	1.48E-05	7.32E-06
2603	257087.6	4085866	1.99E-05	2.87E-04	2.12E-04	2.12E-04	1.18E-04	3.01E-06	4.37E-05	3.30E-05	3.30E-05	1.82E-05	1.64E-06	2.37E-05	1.47E-05	1.47E-05	7.28E-06
2604	257065.2	4085858	1.97E-05	2.85E-04	2.10E-04	2.10E-04	1.17E-04	3.00E-06	4.35E-05	3.28E-05	3.28E-05	1.81E-05	1.63E-06	2.35E-05	1.46E-05	1.46E-05	7.23E-06
2605	257042.8	4085850	1.96E-05	2.84E-04	2.09E-04	2.09E-04	1.17E-04	2.98E-06	4.32E-05	3.27E-05	3.27E-05	1.80E-05	1.62E-06	2.34E-05	1.45E-05	1.45E-05	7.19E-06
2606	257020.4	4085842	1.95E-05	2.82E-04	2.08E-04	2.08E-04	1.16E-04	2.96E-06	4.30E-05	3.25E-05	3.25E-05	1.78E-05	1.61E-06	2.33E-05	1.44E-05	1.44E-05	7.15E-06
2607	256998	4085834	1.94E-05	2.80E-04	2.07E-04	2.07E-04	1.15E-04	2.94E-06	4.27E-05	3.23E-05	3.23E-05	1.77E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.10E-06
2608	256975.6	4085826	1.92E-05	2.78E-04	2.05E-04	2.05E-04	1.14E-04	2.92E-06	4.24E-05	3.20E-05	3.20E-05	1.76E-05	1.59E-06	2.29E-05	1.43E-05	1.43E-05	7.06E-06
2609	256943.2	4085796	1.94E-05	2.80E-04	2.07E-04	2.07E-04	1.15E-04	2.94E-06	4.27E-05	3.23E-05	3.23E-05	1.77E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.11E-06
2610	256933.2	4085774	1.96E-05	2.84E-04	2.09E-04	2.09E-04	1.17E-04	2.98E-06	4.33E-05	3.27E-05	3.27E-05	1.80E-05	1.62E-06	2.34E-05	1.45E-05	1.45E-05	7.20E-06
2611	256923.2	4085752	1.99E-05	2.87E-04	2.12E-04	2.12E-04	1.18E-04	3.01E-06	4.38E-05	3.31E-05	3.31E-05	1.82E-05	1.64E-06	2.37E-05	1.47E-05	1.47E-05	7.28E-06
2612	256913.2	4085731	2.00E-05	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.03E-06	4.40E-05	3.32E-05	3.32E-05	1.83E-05	1.65E-06	2.38E-05	1.48E-05	1.48E-05	7.32E-06
2613	256903.3	4085709	2.00E-05	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.03E-06	4.40E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.38E-05	1.48E-05	1.48E-05	7.33E-06
2614	256893.3	4085687	1.99E-05	2.88E-04	2.12E-04	2.12E-04	1.18E-04	3.02E-06	4.38E-05	3.31E-05	3.31E-05	1.82E-05	1.64E-06	2.37E-05	1.47E-05	1.47E-05	7.30E-06
2615	256883.3	4085666	1.97E-05	2.85E-04	2.10E-04	2.10E-04	1.17E-04	2.99E-06	4.34E-05	3.28E-05	3.28E-05	1.80E-05	1.62E-06	2.35E-05	1.46E-05	1.46E-05	7.22E-06
2616	256873.3	4085644	1.94E-05	2.80E-04	2.07E-04	2.07E-04	1.15E-04	2.94E-06	4.27E-05	3.23E-05	3.23E-05	1.77E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.10E-06
2617	256863.4	4085622	1.89E-05	2.74E-04	2.02E-04	2.02E-04	1.13E-04	2.87E-06	4.17E-05	3.15E-05	3.15E-05	1.73E-05	1.56E-06	2.26E-05	1.40E-05	1.40E-05	6.94E-06
2618	256853.4	4085601	1.84E-05	2.66E-04	1.96E-04	1.96E-04	1.09E-04	2.79E-06	4.05E-05	3.06E-05	3.06E-05	1.68E-05	1.51E-06	2.19E-05	1.36E-05	1.36E-05	6.74E-06
2619	256843.4	4085579	1.77E-05	2.56E-04	1.89E-04	1.89E-04	1.05E-04	2.69E-06	3.90E-05	2.95E-05	2.95E-05	1.62E-05	1.46E-06	2.11E-05	1.31E-05	1.31E-05	6.49E-06
2620	256833.4	4085557	1.69E-05	2.45E-04	1.81E-04	1.81E-04	1.01E-04	2.57E-06	3.73E-05	2.82E-05	2.82E-05	1.55E-05	1.40E-06	2.02E-05	1.25E-05	1.25E-05	6.21E-06
2621	256823.4	4085536	1.61E-05	2.33E-04	1.71E-04	1.71E-04	9.56E-05	2.44E-06	3.54E-05	2.68E-05	2.68E-05	1.47E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.89E-06
2622	256813.5	4085514	1.52E-05	2.19E-04	1.62E-04	1.62E-04	9.01E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.81E-05	1.12E-05	1.12E-05	5.56E-06
2623	256803.5	4085492	1.42E-05	2.06E-04	1.52E-04	1.52E-04	8.45E-05	2.16E-06	3.13E-05	2.37E-05	2.37E-05	1.30E-05	1.17E-06	1.69E-05	1.05E-05	1.05E-05	5.21E-06
2624	256793.5	4085471	1.33E-05	1.92E-04	1.41E-04	1.41E-04	7.89E-05	2.01E-06	2.92E-05	2.21E-05	2.21E-05	1.21E-05	1.09E-06	1.58E-05	9.83E-06	9.83E-06	4.86E-06
2625	256783.5	4085449	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.15E-06	9.15E-06	4.53E-06
2626	256773.5	4085427	1.15E-05	1.66E-04	1.23E-04	1.23E-04	6.83E-05	1.74E-06	2.53E-05	1.91E-05	1.91E-05	1.05E-05	9.48E-07	1.37E-05	8.51E-06	8.51E-06	4.21E-06
2627	256763.6	4085406	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.37E-05	1.63E-06	2.36E-05	1.78E-05	1.78E-05	9.81E-06	8.84E-07	1.28E-05	7.94E-06	7.94E-06	3.93E-06
2628	256753.6	4085384	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.96E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.18E-06	8.27E-07	1.20E-05	7.43E-06	7.43E-06	3.68E-06
2629	256743.6	4085362	9.45E-06	1.37E-04	1.01E-04	1.01E-04	5.62E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.65E-06	7.79E-07	1.13E-05	7.00E-06	7.00E-06	3.46E-06
2630	256733.6	4085341	8.96E-06	1.30E-04	9.55E-05	9.55E-05	5.32E-05	1.36E-06	1.97E-05	1.49E-05	1.49E-05	8.20E-06	7.38E-07	1.07E-05	6.63E-06	6.63E-06	3.28E-06
2631	256723.7	4085319	8.54E-06	1.24E-04	9.10E-05	9.10E-05	5.07E-05	1.30E-06	1.88E-05	1.42E-05	1.42E-05	7.81E-06	7.04E-07	1.02E-05	6.32E-06	6.32E-06	3.13E-06
2632	256713.7	4085297	8.19E-06	1.18E-04	8.73E-05	8.73E-05	4.87E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.49E-06	6.75E-07	9.76E-06	6.06E-06	6.06E-06	3.00E-06
2633	256703.7	4085276	7.88E-06	1.14E-04	8.40E-05	8.40E-05	4.69E-05	1.20E-06	1.74E-05	1.31E-05	1.31E-05	7.21E-06	6.50E-07	9.40E-06	5.84E-06	5.84E-06	2.89E-06
2634	256693.7	4085254	7.61E-06	1.10E-04	8.12E-05	8.12E-05	4.53E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.97E-06	6.28E-07	9.08E-06	5.64E-06	5.64E-06	2.79E-06
2635	256683.7	4085232	7.38E-06	1.07E-04	7.86E-05	7.86E-05	4.38E-05	1.12E-06	1.63E-05	1.23E-05	1.23E-05	6.75E-06	6.08E-07	8.79E-06	5.46E-06	5.46E-06	2.70E-06
2636	256673.8	4085211	7.17E-06	1.04E-04	7.64E-05	7.64E-05	4.26E-05	1.09E-06	1.58E-05	1.19E-05	1.19E-05	6.56E-06	5.91E-07	8.55E-06	5.31E-06	5.31E-06	2.63E-06
2637	257603	4086055	1.60E-05	2.32E-04	1.71E-04	1.71E-04	9.53E-05	2.43E-06	3.53E-05	2.67E-05	2.67E-05	1.47E-05	1.32E-06	1.91E-05	1.19E-05	1.19E-05	5.88E-06
2638	257627.3	4086054	1.59E-05	2.31E-04	1.70E-04	1.70E-04	9.47E-05	2.42E-06	3.51E-05	2.65E-05	2.65E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.84E-06
2639	257651.6	4086053	1.58E-05	2.29E-04	1.69E-04	1.69E-04	9.40E-05	2.40E-06	3.49E-05	2.63E-05	2.63E-05	1.45E-05	1.30E-06	1.89E-05	1.17E-05	1.17E-05	5.80E-06
2640	257675.8	4086051	1.57E-05	2.27E-04	1.67E-04	1.67E-04	9.32E-05	2.38E-06	3.45E-05	2.61E-05	2.61E-05	1.43E-05	1.29E-06	1.87E-05	1.16E-05	1.16E-05	5.75E-06
2641	257700.1	4086050	1.55E-05	2.24E-04	1.65E-04	1.65E-04	9.21E-05	2.35E-06	3.42E-05	2.58E-05	2.58E-05	1.42E-05	1.28E-06	1.85E-05	1.15E-05	1.15E-05	5.68E-06
2642	257724.4	4086049	1.53E-05	2.21E-04	1.63E-04	1.63E-04	9.09E-05	2.32E-06	3.37E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.61E-06
2643	257748.7	4086048	1.51E-05	2.18E-04	1.61E-04	1.61E-04	8.95E-05	2.29E-06	3.32E-05	2.51E-05	2.51E-05	1.38E-05	1.24E-06	1.80E-05	1.12E-05	1.12E-05	5.52E-06
2644	257773	4086047	1.48E-05	2.14E-04	1.58E-04	1.58E-04	8.80E-05	2.25E-06	3.26E-05	2.46E-05	2.46E-05	1.35E-05	1.22E-06	1.76E-05	1.10E-05	1.10E-05	5.42E-06
2645	257797.2	4086046	1.45E-05	2.10E-04	1.55E-04	1.55E-04	8.62E-05	2.20E-06	3.20E-05	2.42E-05	2.42E-05	1.33E-05	1.20E-06	1.73E-05	1.07E-05	1.07E-05	5.32E-06
2646	257821.5	4086045	1.42E-05	2.05E-04	1.51E-04	1.51E-04	8.44E-05	2.16E-06	3.13E-05	2.36E-05	2.36E-05	1.30E-05	1.17E-06	1.69E-05	1.05E-05	1.05E-05	5.21E-06
2647	257845.8	4086044	1.39E-05	2.01E-04	1.48E-04	1.48E-04	8.25E-05	2.11E-06	3.06E-05	2.31E-05	2.31E-05	1.27E-05	1.14E-06	1.66E-05	1.03E-05	1.03E-05	5.09E-06
2648	257870.1	4086043	1.36E-05	1.96E-04	1.45E-04	1.45E-04	8.06E-05	2.06E-06	2.99E-05	2.26E-05	2.26E-05	1.24E-05	1.12E-06	1.62E-05	1.00E-05	1.00E-05	4.97E-06
2649	257894.4	4086042	1.33E-05	1.92E-04	1.41E-04	1.41E-04	7.88E-05	2.01E-06	2.92E-05	2.21E-05	2.21E-05	1.21E-05	1.09E-06	1.58E-05	9.82E-06	9.82E-06	4.86E-06
2650	257918.7	4086041	1.30E-05	1.88E-04	1.38E-04	1.38E-04	7.71E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.60E-06	9.60E-06	4.75E-06
2651	257942.9	4086040	1.27E-05	1.84E-04	1.35E-04	1.35E-04	7.55E-05	1.93E-06	2.80E-05	2.11E-05	2.11E-05	1.16E-05	1.05E-06	1.51E-05	9.41E-06	9.41E-06	4.66E-06
2652	257967.2	4086039	1.25E-05	1.80E-04	1.33E-04	1.33E-04	7.40E-05	1.89E-06	2.74E-05	2.07E-05	2.07E-05	1.14E-05	1.03E-06	1.48E-05	9.22E-06	9.22E-06	4.57E-06
2653	257991.5	4086038	1.22E-05	1.77E-04	1.30E-04	1.30E-04	7.27E-05	1.86E-06	2.69E-05	2.04E-05	2.04E-05	1.12E-05	1.01E-06	1.46E-05	9.06E-06	9.06E-06	4.48E-06
2654	258015.8	4086036	1.20E-05	1.74E-04	1.28E-04	1.28E-04	7.14E-05	1.82E-06	2.65E-05	2.00E-05	2.00E-05	1.10E-05	9.90E-07	1.43E-05	8.90E-06	8.90E-06	4.40E-06
2655	258040.1	4086035	1.18E-05	1.71E-04	1.26E-04	1.26E-04	7.01E-05	1.79E-06	2.60E-05	1.96E-05	1.96E-05	1.08E-05	9.73E-07	1.41E-05	8.74E-06	8.74E-06	4.33E-06
2656	258064.3	4086034	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.89E-05	1.76E-06	2.55E-05	1.93E-05	1.93E-05	1.06E-05	9.55E-07	1.38E-05	8.58E-06	8.58E-06	4.25E-06
2657	258088.6	4086033	1.14E-05	1.64E-04	1.21E-04	1.21E-04	6.75E-05	1.72E-06	2.50E-05	1.89E-05	1.89E-05	1.04E-05	9.36E-07	1.35E-05	8.41E-06	8.41E-06	4.16E-06
2658	258112.9	4086032	1.11E-05	1.61E-04	1.18E-04	1.18E-04	6.60E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.16E-07	1.32E-05	8.23E-06	8.23E-06	4.07E-06
2659	258137.2	4086031	1.09E-05	1.57E-04	1.16E-04	1.16E-04	6.45E-05	1.65E-06	2.39E-05	1.81E-05	1.81E-05	9.93E-06	8.95E-07	1.29E-05	8.04E-06	8.04E-06	3.98E-06
2660	258161.5	4086030	1.06E-05	1.53E-04	1.13E-04	1.13E-04	6.29E-05	1.61E-06	2.33E-05	1.76E-05	1.76E-05	9.68E-06	8.72E-07	1.26E-05	7.83E-06	7.83E-06	3.88E-06
2661	258185.8	4086029	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.12E-05	1.56E-06	2.27E-05	1.71E-05	1.71E-05	9.42E-06	8.49E-07	1.23E-05	7.62E-06	7.62E-06	3.77E-06
2662	258210	4086028	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.95E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.16E-06	8.25E-07	1.19E-05	7.41E-06	7.41E-06	3.67E-06
2663	258234.3	4086027	9.73E-06	1.41E-04	1.04E-04	1.04E-04	5.78E-05	1.48E-06	2.14E-05	1.62E-05	1.62E-05	8.90E-06	8.02E-07	1.16E-05	7.20E-06	7.20E-06	3.56E-06
2664	258258.6	4086026	9.44E-06	1.37E-04	1.01E-04	1.01E-04	5.61E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.64E-06	7.78E-07	1.13E-05	6.99E-06	6.99E-06	3.46E-06
2665	258282.9	4086025	9.17E-06	1.33E-04	9.77E-05	9.77E-05	5.45E-05	1.39E-06	2.02E-05	1.53E-05	1.53E-05	8.39E-06	7.56E-07	1.09E-05	6.79E-06	6.79E-06	3.36E-06
2666	258307.2	4086024	8.90E-06	1.29E-04	9.48E-05	9.48E-05	5.29E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.14E-06	7.33E-07	1.06E-05	6.59E-06	6.59E-06	3.26E-06
2667	258331.4	4086022	8.63E-06	1.25E-04	9.20E-05	9.20E-05	5.13E-05	1.31E-06	1.90E-05	1.44E-05	1.44E-05	7.89E-06	7.11E-07	1.03E-05	6.39E-06	6.39E-06	3.16E-06
2668	258355.7	4086021	8.36E-06	1.21E-04	8.92E-05	8.92E-05	4.97E-05	1.27E-06	1.84E-05	1.39E-05	1.39E-05	7.65E-06	6.89E-07	9.97E-06	6.19E-06	6.19E-06	3.07E-06
2669	258380	4086020	8.11E-06	1.17E-04	8.64E-05	8.64E-05	4.82E-05	1.23E-06	1.79E-05	1.35E-05	1.35E-05	7.42E-06	6.68E-07	9.67E-06	6.00E-06	6.00E-06	2.97E-06
2670	258404.3	4086019	7.86E-06	1.14E-04	8.38E-05	8.38E-05	4.67E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.19E-06	6.48E-07	9.37E-06	5.82E-06	5.82E-06	2.88E-06
2671	257589.1	4086246	1.20E-05	1.73E-04	1.28E-04	1.28E-04	7.11E-05	1.82E-06	2.64E-05	1.99E-05	1.99E-05	1.10E-05	9.87E-07	1.43E-05	8.86E-06	8.86E-06	4.39E-06
2672	257566.5	4086238	1.22E-05	1.77E-04	1.30E-04	1.30E-04	7.26E-05	1.85E-06	2.69E-05	2.03E-05	2.03E-05	1.12E-05	1.01E-06	1.46E-05	9.05E-06	9.05E-06	4.48E-06
2673	257543.8	4086230	1.25E-05	1.80E-04	1.33E-04	1.33E-04	7.40E-05	1.89E-06	2.74E-05	2.07E-05	2.07E-05	1.14E-05	1.03E-06	1.48E-05	9.22E-06	9.22E-06	4.57E-06
2674	257521.1	4086221	1.27E-05	1.83E-04	1.35E-04	1.35E-04	7.54E-05	1.92E-06	2.79E-05	2.11E-05	2.11E-05	1.16E-05	1.05E-06	1.51E-05	9.39E-06	9.39E-06	4.65E-06

2675	257498.4	4086213	1.29E-05	1.87E-04	1.37E-04	1.37E-04	7.66E-05	1.96E-06	2.84E-05	2.15E-05	2.15E-05	1.18E-05	1.06E-06	1.54E-05	9.55E-06	9.55E-06	4.73E-06
2676	257475.7	4086205	1.31E-05	1.89E-04	1.40E-04	1.40E-04	7.79E-05	1.99E-06	2.89E-05	2.18E-05	2.18E-05	1.20E-05	1.08E-06	1.56E-05	9.70E-06	9.70E-06	4.80E-06
2677	257453	4086196	1.33E-05	1.92E-04	1.42E-04	1.42E-04	7.90E-05	2.02E-06	2.93E-05	2.21E-05	2.21E-05	1.22E-05	1.10E-06	1.58E-05	9.84E-06	9.84E-06	4.87E-06
2678	257430.3	4086188	1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.01E-05	2.05E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.61E-05	9.98E-06	9.98E-06	4.94E-06
2679	257407.6	4086180	1.36E-05	1.97E-04	1.45E-04	1.45E-04	8.11E-05	2.07E-06	3.01E-05	2.27E-05	2.27E-05	1.25E-05	1.12E-06	1.63E-05	1.01E-05	1.01E-05	5.00E-06
2680	257384.9	4086172	1.38E-05	2.00E-04	1.47E-04	1.47E-04	8.20E-05	2.09E-06	3.04E-05	2.30E-05	2.30E-05	1.26E-05	1.14E-06	1.65E-05	1.02E-05	1.02E-05	5.06E-06
2681	257362.2	4086163	1.39E-05	2.02E-04	1.49E-04	1.49E-04	8.29E-05	2.12E-06	3.07E-05	2.32E-05	2.32E-05	1.28E-05	1.15E-06	1.66E-05	1.03E-05	1.03E-05	5.11E-06
2682	257339.5	4086155	1.41E-05	2.04E-04	1.50E-04	1.50E-04	8.38E-05	2.14E-06	3.11E-05	2.35E-05	2.35E-05	1.29E-05	1.16E-06	1.68E-05	1.04E-05	1.04E-05	5.17E-06
2683	257316.8	4086147	1.43E-05	2.06E-04	1.52E-04	1.52E-04	8.48E-05	2.16E-06	3.14E-05	2.37E-05	2.37E-05	1.31E-05	1.18E-06	1.70E-05	1.06E-05	1.06E-05	5.23E-06
2684	257294.1	4086138	1.44E-05	2.08E-04	1.54E-04	1.54E-04	8.57E-05	2.19E-06	3.18E-05	2.40E-05	2.40E-05	1.32E-05	1.19E-06	1.72E-05	1.07E-05	1.07E-05	5.28E-06
2685	257271.4	4086130	1.46E-05	2.10E-04	1.55E-04	1.55E-04	8.65E-05	2.21E-06	3.21E-05	2.42E-05	2.42E-05	1.33E-05	1.20E-06	1.73E-05	1.08E-05	1.08E-05	5.33E-06
2686	257248.8	4086122	1.47E-05	2.13E-04	1.57E-04	1.57E-04	8.73E-05	2.23E-06	3.24E-05	2.45E-05	2.45E-05	1.34E-05	1.21E-06	1.75E-05	1.09E-05	1.09E-05	5.39E-06
2687	257226.1	4086114	1.48E-05	2.15E-04	1.58E-04	1.58E-04	8.82E-05	2.25E-06	3.27E-05	2.47E-05	2.47E-05	1.36E-05	1.22E-06	1.77E-05	1.10E-05	1.10E-05	5.44E-06
2688	257203.4	4086105	1.50E-05	2.17E-04	1.60E-04	1.60E-04	8.91E-05	2.27E-06	3.30E-05	2.49E-05	2.49E-05	1.37E-05	1.24E-06	1.79E-05	1.11E-05	1.11E-05	5.49E-06
2689	257180.7	4086097	1.51E-05	2.19E-04	1.61E-04	1.61E-04	8.99E-05	2.29E-06	3.33E-05	2.52E-05	2.52E-05	1.38E-05	1.25E-06	1.80E-05	1.12E-05	1.12E-05	5.54E-06
2690	257158	4086089	1.52E-05	2.20E-04	1.62E-04	1.62E-04	9.06E-05	2.31E-06	3.36E-05	2.54E-05	2.54E-05	1.39E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.59E-06
2691	257135.3	4086080	1.53E-05	2.22E-04	1.64E-04	1.64E-04	9.12E-05	2.33E-06	3.38E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.83E-05	1.14E-05	1.14E-05	5.62E-06
2692	257112.6	4086072	1.54E-05	2.23E-04	1.64E-04	1.64E-04	9.15E-05	2.34E-06	3.39E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.65E-06
2693	257089.9	4086064	1.54E-05	2.23E-04	1.65E-04	1.65E-04	9.18E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.66E-06
2694	257067.2	4086056	1.54E-05	2.23E-04	1.65E-04	1.65E-04	9.18E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.66E-06
2695	257044.5	4086047	1.54E-05	2.23E-04	1.65E-04	1.65E-04	9.17E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.66E-06
2696	257021.8	4086039	1.54E-05	2.23E-04	1.64E-04	1.64E-04	9.15E-05	2.34E-06	3.39E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.65E-06
2697	256999.1	4086031	1.54E-05	2.22E-04	1.64E-04	1.64E-04	9.13E-05	2.33E-06	3.38E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.83E-05	1.14E-05	1.14E-05	5.63E-06
2698	256976.4	4086022	1.53E-05	2.22E-04	1.63E-04	1.63E-04	9.11E-05	2.33E-06	3.38E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.83E-05	1.13E-05	1.13E-05	5.62E-06
2699	256953.8	4086014	1.53E-05	2.21E-04	1.63E-04	1.63E-04	9.09E-05	2.32E-06	3.37E-05	2.54E-05	2.54E-05	1.40E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.60E-06
2700	256931.1	4086006	1.53E-05	2.21E-04	1.63E-04	1.63E-04	9.07E-05	2.32E-06	3.36E-05	2.54E-05	2.54E-05	1.40E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.59E-06
2701	256908.4	4085998	1.52E-05	2.20E-04	1.62E-04	1.62E-04	9.05E-05	2.31E-06	3.36E-05	2.53E-05	2.53E-05	1.39E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.58E-06
2702	256885.7	4085989	1.52E-05	2.20E-04	1.62E-04	1.62E-04	9.03E-05	2.31E-06	3.35E-05	2.53E-05	2.53E-05	1.39E-05	1.25E-06	1.81E-05	1.13E-05	1.13E-05	5.57E-06
2703	256863	4085981	1.52E-05	2.19E-04	1.62E-04	1.62E-04	9.02E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.81E-05	1.12E-05	1.12E-05	5.56E-06
2704	256840.3	4085973	1.51E-05	2.19E-04	1.61E-04	1.61E-04	9.00E-05	2.30E-06	3.33E-05	2.52E-05	2.52E-05	1.38E-05	1.25E-06	1.80E-05	1.12E-05	1.12E-05	5.55E-06
2705	256807.5	4085942	1.53E-05	2.22E-04	1.64E-04	1.64E-04	9.12E-05	2.33E-06	3.38E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.83E-05	1.14E-05	1.14E-05	5.62E-06
2706	256797.4	4085920	1.56E-05	2.25E-04	1.66E-04	1.66E-04	9.25E-05	2.36E-06	3.43E-05	2.59E-05	2.59E-05	1.42E-05	1.28E-06	1.86E-05	1.15E-05	1.15E-05	5.71E-06
2707	256787.3	4085899	1.58E-05	2.28E-04	1.68E-04	1.68E-04	9.38E-05	2.39E-06	3.48E-05	2.63E-05	2.63E-05	1.44E-05	1.30E-06	1.88E-05	1.17E-05	1.17E-05	5.78E-06
2708	256777.2	4085877	1.59E-05	2.31E-04	1.70E-04	1.70E-04	9.48E-05	2.42E-06	3.51E-05	2.65E-05	2.65E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.84E-06
2709	256767.1	4085855	1.61E-05	2.32E-04	1.71E-04	1.71E-04	9.55E-05	2.44E-06	3.54E-05	2.67E-05	2.67E-05	1.47E-05	1.32E-06	1.92E-05	1.19E-05	1.19E-05	5.89E-06
2710	256757	4085833	1.61E-05	2.33E-04	1.72E-04	1.72E-04	9.58E-05	2.45E-06	3.55E-05	2.68E-05	2.68E-05	1.48E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.91E-06
2711	256746.9	4085811	1.61E-05	2.33E-04	1.72E-04	1.72E-04	9.58E-05	2.45E-06	3.55E-05	2.68E-05	2.68E-05	1.47E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.91E-06
2712	256736.8	4085789	1.60E-05	2.32E-04	1.71E-04	1.71E-04	9.53E-05	2.43E-06	3.53E-05	2.67E-05	2.67E-05	1.47E-05	1.32E-06	1.91E-05	1.19E-05	1.19E-05	5.88E-06
2713	256726.7	4085767	1.59E-05	2.30E-04	1.69E-04	1.69E-04	9.43E-05	2.41E-06	3.50E-05	2.64E-05	2.64E-05	1.45E-05	1.31E-06	1.89E-05	1.18E-05	1.18E-05	5.82E-06
2714	256716.5	4085745	1.56E-05	2.26E-04	1.67E-04	1.67E-04	9.28E-05	2.37E-06	3.44E-05	2.60E-05	2.60E-05	1.43E-05	1.29E-06	1.86E-05	1.16E-05	1.16E-05	5.73E-06
2715	256706.4	4085723	1.53E-05	2.21E-04	1.63E-04	1.63E-04	9.09E-05	2.32E-06	3.37E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.61E-06
2716	256696.3	4085701	1.49E-05	2.16E-04	1.59E-04	1.59E-04	8.86E-05	2.26E-06	3.29E-05	2.48E-05	2.48E-05	1.36E-05	1.23E-06	1.78E-05	1.10E-05	1.10E-05	5.47E-06
2717	256686.2	4085679	1.44E-05	2.09E-04	1.54E-04	1.54E-04	8.58E-05	2.19E-06	3.18E-05	2.40E-05	2.40E-05	1.32E-05	1.19E-06	1.72E-05	1.07E-05	1.07E-05	5.29E-06
2718	256676.1	4085657	1.39E-05	2.01E-04	1.48E-04	1.48E-04	8.25E-05	2.11E-06	3.06E-05	2.31E-05	2.31E-05	1.27E-05	1.14E-06	1.65E-05	1.03E-05	1.03E-05	5.09E-06
2719	256666	4085635	1.33E-05	1.92E-04	1.41E-04	1.41E-04	7.88E-05	2.01E-06	2.92E-05	2.21E-05	2.21E-05	1.21E-05	1.09E-06	1.58E-05	9.82E-06	9.82E-06	4.86E-06
2720	256655.9	4085613	1.26E-05	1.82E-04	1.34E-04	1.34E-04	7.48E-05	1.91E-06	2.77E-05	2.10E-05	2.10E-05	1.15E-05	1.04E-06	1.50E-05	9.33E-06	9.33E-06	4.62E-06
2721	256645.8	4085591	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.07E-05	1.81E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.81E-07	1.42E-05	8.81E-06	8.81E-06	4.36E-06
2722	256635.7	4085569	1.12E-05	1.62E-04	1.19E-04	1.19E-04	6.65E-05	1.70E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.22E-07	1.33E-05	8.28E-06	8.28E-06	4.10E-06
2723	256625.6	4085547	1.05E-05	1.52E-04	1.12E-04	1.12E-04	6.23E-05	1.59E-06	2.31E-05	1.74E-05	1.74E-05	9.59E-06	8.64E-07	1.25E-05	7.76E-06	7.76E-06	3.84E-06
2724	256615.5	4085526	9.80E-06	1.42E-04	1.05E-04	1.05E-04	5.83E-05	1.49E-06	2.16E-05	1.63E-05	1.63E-05	8.97E-06	8.08E-07	1.17E-05	7.26E-06	7.26E-06	3.59E-06
2725	256605.4	4085504	9.17E-06	1.33E-04	9.78E-05	9.78E-05	5.45E-05	1.39E-06	2.02E-05	1.53E-05	1.53E-05	8.39E-06	7.56E-07	1.09E-05	6.79E-06	6.79E-06	3.36E-06
2726	256595.3	4085482	8.60E-06	1.24E-04	9.17E-05	9.17E-05	5.11E-05	1.31E-06	1.90E-05	1.43E-05	1.43E-05	7.87E-06	7.09E-07	1.03E-05	6.37E-06	6.37E-06	3.15E-06
2727	256585.2	4085460	8.10E-06	1.17E-04	8.64E-05	8.64E-05	4.82E-05	1.23E-06	1.79E-05	1.35E-05	1.35E-05	7.41E-06	6.68E-07	9.66E-06	6.00E-06	6.00E-06	2.97E-06
2728	256575.1	4085438	7.67E-06	1.11E-04	8.18E-05	8.18E-05	4.56E-05	1.16E-06	1.69E-05	1.28E-05	1.28E-05	7.02E-06	6.32E-07	9.15E-06	5.68E-06	5.68E-06	2.81E-06
2729	256565	4085416	7.31E-06	1.06E-04	7.79E-05	7.79E-05	4.34E-05	1.11E-06	1.61E-05	1.22E-05	1.22E-05	6.69E-06	6.02E-07	8.71E-06	5.41E-06	5.41E-06	2.68E-06
2730	256554.9	4085394	7.01E-06	1.01E-04	7.47E-05	7.47E-05	4.16E-05	1.06E-06	1.54E-05	1.17E-05	1.17E-05	6.41E-06	5.77E-07	8.35E-06	5.19E-06	5.19E-06	2.57E-06
2731	256544.8	4085372	6.75E-06	9.76E-05	7.20E-05	7.20E-05	4.01E-05	1.02E-06	1.49E-05	1.12E-05	1.12E-05	6.18E-06	5.56E-07	8.05E-06	5.00E-06	5.00E-06	2.47E-06
2732	256534.7	4085350	6.53E-06	9.44E-05	6.96E-05	6.96E-05	3.88E-05	9.91E-07	1.44E-05	1.09E-05	1.09E-05	5.97E-06	5.38E-07	7.78E-06	4.83E-06	4.83E-06	2.39E-06
2733	256524.5	4085328	6.33E-06	9.16E-05	6.75E-05	6.75E-05	3.76E-05	9.61E-07	1.40E-05	1.05E-05	1.05E-05	5.80E-06	5.22E-07	7.55E-06	4.69E-06	4.69E-06	2.32E-06
2734	256514.4	4085306	6.16E-06	8.91E-05	6.56E-05	6.56E-05	3.66E-05	9.35E-07	1.36E-05	1.02E-05	1.02E-05	5.63E-06	5.08E-07	7.34E-06	4.56E-06	4.56E-06	2.26E-06
2735	256504.3	4085284	5.99E-06	8.67E-05	6.39E-05	6.39E-05	3.56E-05	9.09E-07	1.32E-05	9.97E-06	9.97E-06	5.48E-06	4.94E-07	7.14E-06	4.44E-06	4.44E-06	2.20E-06
2736	256494.2	4085262	5.84E-06	8.45E-05	6.23E-05	6.23E-05	3.47E-05	8.86E-07	1.29E-05	9.72E-06	9.72E-06	5.34E-06	4.81E-07	6.96E-06	4.32E-06	4.32E-06	2.14E-06
2737	256484.1	4085240	5.70E-06	8.24E-05	6.07E-05	6.07E-05	3.39E-05	8.65E-07	1.26E-05	9.49E-06	9.49E-06	5.21E-06	4.70E-07	6.79E-06	4.22E-06	4.22E-06	2.09E-06
2738	256474	4085218	5.57E-06	8.06E-05	5.94E-05	5.94E-05	3.31E-05	8.46E-07	1.23E-05	9.28E-06	9.28E-06	5.10E-06	4.59E-07	6.64E-06	4.13E-06	4.13E-06	2.04E-06
2739	257611.8	4086255	1.17E-05	1.69E-04	1.25E-04	1.25E-04	6.96E-05	1.78E-06	2.58E-05	1.95E-05	1.95E-05	1.07E-05	9.65E-07	1.40E-05	8.67E-06	8.67E-06	4.29E-06
2740	257636.1	4086253	1.16E-05	1.67E-04	1.23E-04	1.23E-04	6.88E-05	1.76E-06	2.55E-05	1.93E-05	1.93E-05	1.06E-05	9.54E-07	1.38E-05	8.57E-06	8.57E-06	4.24E-06
2741	257660.4	4086252	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.79E-05	1.74E-06	2.52E-05	1.90E-05	1.90E-05	1.05E-05	9.42E-07	1.36E-05	8.47E-06	8.47E-06	4.19E-06
2742	257684.7	4086251	1.13E-05	1.63E-04	1.20E-04	1.20E-04	6.70E-05	1.71E-06	2.48E-05	1.88E-05	1.88E-05	1.03E-05	9.29E-07	1.34E-05	8.35E-06	8.35E-06	4.13E-06
2743	257709	4086250	1.11E-05	1.61E-04	1.18E-04	1.18E-04	6.60E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.15E-07	1.32E-05	8.23E-06	8.23E-06	4.07E-06
2744	257733.2	4086249	1.09E-05	1.58E-04	1.16E-04	1.16E-04	6.49E-05	1.66E-06	2.41E-05	1.82E-05	1.82E-05	1.00E-05	9.01E-07	1.30E-05	8.09E-06	8.09E-06	4.01E-06
2745	257757.5	4086248	1.07E-05	1.55E-04	1.15E-04	1.15E-04	6.39E-05	1.63E-06	2.37E-05	1.79E-05	1.79E-05	9.83E-06	8.86E-07	1.28E-05	7.96E-06	7.96E-06	3.94E-06
2746	257781.8	4086247	1.06E-05	1.53E-04	1.13E-04	1.13E-04	6.28E-05	1.60E-06	2.33E-05	1.76E-05	1.76E-05	9.67E-06	8.71E-07	1.26E-05	7.82E-06	7.82E-06	3.87E-06
2747	257806.1	4086246	1.04E-05	1.50E-04	1.11E-04	1.11E-04	6.16E-05	1.57E-06	2.29E-05	1.73E-05	1.73E-05	9.49E-06	8.55E-07	1.24E-05	7.68E-06	7.68E-06	3.80E-06
2748	257830.4	4086245	1.02E-05	1.47E-04	1.09E-04	1.09E-04	6.05E-05	1.54E-06	2.24E-05	1.69E-05	1.69E-05	9.31E-06	8.39E-07	1.21E-05	7.54E-06	7.54E-06	3.73E-06
2749	257854.7	4086244	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.94E-05	1.52E-06	2.20E-05	1.66E-05	1.66E-05	9.15E-06	8.24E-07	1.19E-05	7.41E-06	7.41E-06	3.67E-06
2750	257878.9	4086243	9.82E-06	1.42E-04	1.05E-04	1.05E-04	5.83E-05	1.49E-06	2.16E-05	1.63E-05	1.63E-05	8.98E-06	8.09E-07	1.17E-05	7.27E-06	7.27E-06	3.60E-06
2751	257903.2	4086242	9.64E-06	1.39E-04	1.03E-04	1.03E-04	5.73E-05	1.46E-06	2.12E-05	1.60E-05	1.60E-05	8.82E-06	7.94E-07	1.15E-05	7.14E-06	7.14E-06	3.53E-06
2752	257927.5	4086241	9.47E-06	1.37E-04	1.01E-04	1.01E-04	5.63E-05	1.44E-06	2.09E-05	1.58E-05	1.58E-05	8.66E-06	7.81E-07	1.13E-05	7.01E-06	7.01E-06	3.47E-06
2753	257951.8	4086239	9.30E-06	1.35E-04	9.92E-05	9.92E-05	5.53E-05	1.41E-06	2.05E-05	1.55E-05	1.55E-05	8.51E-06	7.67E-07	1.11E-05	6.89E-06	6.89E-06	3.41E-06
2754	257976.1	4086238	9.14E-06	1.32E-04	9.74E-05	9.74E-05	5.43E-05	1.39E-06	2.01E-05	1.52E-05	1.52E-05	8.36E-06	7.53E-07	1.09E-05	6.77E-06	6.77E-06	3.35E-06
2755	258000.3	4086237	8.98E-06	1.30E-04	9.57E-05	9.57E-05	5.33E-05	1.36E-06	1.98E-05	1.49E-05	1.49E-05	8.21E-06	7.40E-07	1.07E-05	6.65E-06	6.65E-06	3.29E-06
2756	258024.6	4086236	8.81E-06	1.27E-04	9.39E-05	9.39E-05	5.24E-05	1.34E-06	1.94E-05	1.47E-05	1.47E-05	8.06E-06	7.26E-07	1.05E-05	6.53E-06	6.53E-06	3.23E-06
2757	258048.9	4086235	8.65E-06	1.25E-04	9.22E-05	9.22E-05	5.14E-05	1.31E-06	1.91E-05	1.44E-05	1.44E-05	7.91E-06	7.13E-07	1.03E-05	6.40E-06	6.40E-06	3.17E-06
2758	258073.2	4086234	8.48E-06	1.23E-04	9.04E-05	9.04E-05	5.04E-05	1.29E-06	1.87E-05	1.41E-05	1.41E-05	7.76E-06	6.99E-07	1.01E-05	6.28E-06	6.28E-06	3.11E-06
2759	258097.5	4086233	8.32E-06	1.20E-04	8.87E-05	8.87E-05	4.94E-05	1.26E-06	1.83E-05	1.38E-05	1.38E-05	7.61E-06	6.86E-07	9.92E-06	6.16E-06	6.16E-06	3.05E-06
2760	258121.8	4086232	8.18E-06	1.18E-04	8.72E-05	8.72E-05	4.86E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.48E-06	6.74E-07	9.75E-06	6.06E-06	6.06E-06	3.00E-06
2761	258146	4086231	8.02E-06	1.16E-04	8.55E-05	8.55E-05	4.77E-05	1.22E-06	1.77E-05	1.34E-05	1.34E-05	7.34E-06	6.61E-07	9.56E-06	5.94E-06	5.94E-06	2.94E-06
2762	258170.3	4086230	7.86E-06	1.14E-04	8.38E-05	8.38E-05	4.67E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.19E-06	6.48E-07	9.37E-06	5.82E-06	5.82E-06	2.88E-06
2763	258194.6	4086229	7.69E-06	1.11E-04	8.20E-05	8.20E-05	4.57E-05	1.17E-06	1.70E-05	1.28E-05	1.28E-05	7.04E-06	6.34E-07	9.17E-06	5.70E-06	5.70E-06	2.82E-06
2764	258218.9	4086228	7.53E-06	1.09E-04	8.03E-05	8.03E-05	4.48E-05	1.14E-06	1.66E-05	1.25E-05	1.25E-05	6.89E-06	6.21E-07	8.98E-06	5.58E-06	5.58E-06	2.76E-06
2765	258243.2	4086227	7.37E-06	1.07E-04	7.86E-05	7.86E-05	4.38E-05	1.12E-06	1.62E-05	1.23E-05	1.23E-05	6.74E-06	6.07E-07	8.78E-06	5.46E-06	5.46E-06	2.70E-06
2766	258267.4	4086225	7.20E-06	1.04E-04	7.68E-05	7.68E-05	4.28E-05	1.09E-06	1.59E-05	1.20E-05	1.20E-05	6.59E-06	5.94E-07	8.59E-06	5.33E-06	5.33E-06	2.64E-06
2767	258291.7	4086224	7.03E-06	1.02E-04	7.50E-05	7.50E-05	4.18E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.44E-06	5.80E-07	8.39E-06	5.21E-06	5.21E-06	2.58E-06
2768	258316	4086223	6.86E-06	9.93E-05	7.32E-05	7.32E-05	4.08E-05	1.04E-06	1.51E-05	1.14E-05	1.14E-05	6.28E-06	5.66E-07	8.18E-06	5.08E-06	5.08E-06	2.52E-06
2769	258340.3	4086222	6.69E-06	9.68E-05	7.14E-05	7.14E-05	3.98E-05	1.02E-06	1.48E-05	1.11E-05	1.11E-05	6.13E-06	5.52E-07	7.98E-06	4.96E-06	4.96E-06	2.45E-06
2770	258364.6	4086221	6.53E-06	9.44E-05	6.96E-05	6.96E-05	3.88E-05	9.91E-07	1.44E-05	1.09E-05	1.09E-05	5.97E-06	5.38E-07	7.78E-06	4.83E-06	4.83E-06	2.39E-06
2771	258388.9	4086220	6.36E-06	9.20E-05	6.78E-05	6.78E-05	3.78E-05	9.65E-07	1.40E-05	1.06E-05	1.06E-05	5.82E-06	5.24E-07	7.58E-06	4.71E-06	4.71E-06	2.33E-06
2772	258413.1	4086219	6.19E-06	8.96E-05	6.60E-05	6.60E-05	3.68E-05	9.40E-07	1.36E-05	1.03E-05	1.03E-05	5.67E-06	5.11E-07	7.39E-06	4.59E-06	4.59E-06	2.27E-06
2773	257598.3	4086446	9.13E-06	1.32E-04	9.73E-05	9.73E-05	5.43E-05	1.39E-06	2.01E-05	1.52E-05	1.52E-05	8.36E-06	7.53E-07	1.09E-05	6.76E-06	6.76E-06	3.35E-06
2774	257576	4086438	9.34E-06	1.35E-04	9.95E-05	9.95E-05	5.55E-05	1.42E-06	2.06E-05	1.55E-05	1.55E-05	8.54E-06	7.70E-07	1.11E-05	6.91E-06	6.91E-06	3.42E-06
2775	257553.6	4086430	9.54E-06	1.38E-04	1.02E-04	1.02E-04	5.67E-05	1.45E-06	2.10E-05	1.59E-05	1.59E-05	8.73E-06	7.86E-07	1.14E-05	7.06E-06	7.06E-06	3.50E-06
2776	257531.3	4086422	9.73E-06	1.41E-04	1.04E-04	1.04E-04	5.78E-05	1.48E-06	2.14E-05	1.62E-05	1.62E-05	8.91E-06	8.02E-07	1.16E-05	7.21E-06	7.21E-06	3.57E-06
2777	257508.9	4086414	9.92E-06	1.43E-04	1.06E-04	1.06E-04	5.90E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.08E-06	8.18E-07	1.18E-05	7.35E-06	7.35E-06	3.64E-06

2778	257486.6	4086405	1.01E-05	1.46E-04	1.08E-04	1.08E-04	6.00E-05	1.53E-06	2.23E-05	1.68E-05	1.68E-05	9.24E-06	8.33E-07	1.20E-05	7.48E-06	7.48E-06	3.70E-06
2779	257464.2	4086397	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.11E-05	1.56E-06	2.26E-05	1.71E-05	1.71E-05	9.40E-06	8.47E-07	1.22E-05	7.61E-06	7.61E-06	3.77E-06
2780	257441.9	4086389	1.04E-05	1.51E-04	1.11E-04	1.11E-04	6.20E-05	1.58E-06	2.30E-05	1.74E-05	1.74E-05	9.55E-06	8.60E-07	1.24E-05	7.73E-06	7.73E-06	3.83E-06
2781	257419.5	4086381	1.06E-05	1.53E-04	1.13E-04	1.13E-04	6.29E-05	1.61E-06	2.33E-05	1.76E-05	1.76E-05	9.69E-06	8.73E-07	1.26E-05	7.84E-06	7.84E-06	3.88E-06
2782	257397.2	4086373	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.38E-05	1.63E-06	2.37E-05	1.79E-05	1.79E-05	9.82E-06	8.85E-07	1.28E-05	7.95E-06	7.95E-06	3.94E-06
2783	257374.9	4086365	1.09E-05	1.57E-04	1.16E-04	1.16E-04	6.46E-05	1.65E-06	2.39E-05	1.81E-05	1.81E-05	9.95E-06	8.96E-07	1.30E-05	8.05E-06	8.05E-06	3.98E-06
2784	257352.5	4086356	1.10E-05	1.59E-04	1.17E-04	1.17E-04	6.53E-05	1.67E-06	2.42E-05	1.83E-05	1.83E-05	1.01E-05	9.06E-07	1.31E-05	8.14E-06	8.14E-06	4.03E-06
2785	257330.2	4086348	1.11E-05	1.61E-04	1.18E-04	1.18E-04	6.60E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.16E-07	1.32E-05	8.23E-06	8.23E-06	4.07E-06
2786	257307.8	4086340	1.12E-05	1.62E-04	1.20E-04	1.20E-04	6.67E-05	1.70E-06	2.47E-05	1.87E-05	1.87E-05	1.03E-05	9.25E-07	1.34E-05	8.31E-06	8.31E-06	4.11E-06
2787	257285.5	4086332	1.13E-05	1.64E-04	1.21E-04	1.21E-04	6.73E-05	1.72E-06	2.50E-05	1.89E-05	1.89E-05	1.04E-05	9.34E-07	1.35E-05	8.39E-06	8.39E-06	4.15E-06
2788	257263.1	4086324	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.79E-05	1.73E-06	2.52E-05	1.90E-05	1.90E-05	1.05E-05	9.42E-07	1.36E-05	8.46E-06	8.46E-06	4.19E-06
2789	257240.8	4086316	1.15E-05	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.51E-07	1.38E-05	8.54E-06	8.54E-06	4.23E-06
2790	257218.4	4086307	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.92E-05	1.77E-06	2.56E-05	1.94E-05	1.94E-05	1.07E-05	9.59E-07	1.39E-05	8.62E-06	8.62E-06	4.27E-06
2791	257196.1	4086299	1.17E-05	1.70E-04	1.25E-04	1.25E-04	6.98E-05	1.78E-06	2.59E-05	1.95E-05	1.95E-05	1.07E-05	9.68E-07	1.40E-05	8.70E-06	8.70E-06	4.30E-06
2792	257173.7	4086291	1.19E-05	1.71E-04	1.26E-04	1.26E-04	7.04E-05	1.80E-06	2.61E-05	1.97E-05	1.97E-05	1.08E-05	9.77E-07	1.41E-05	8.78E-06	8.78E-06	4.34E-06
2793	257151.4	4086283	1.20E-05	1.73E-04	1.28E-04	1.28E-04	7.12E-05	1.82E-06	2.64E-05	1.99E-05	1.99E-05	1.10E-05	9.88E-07	1.43E-05	8.87E-06	8.87E-06	4.39E-06
2794	257129	4086275	1.21E-05	1.75E-04	1.29E-04	1.29E-04	7.19E-05	1.84E-06	2.67E-05	2.01E-05	2.01E-05	1.11E-05	9.97E-07	1.44E-05	8.96E-06	8.96E-06	4.44E-06
2795	257106.7	4086267	1.22E-05	1.76E-04	1.30E-04	1.30E-04	7.25E-05	1.85E-06	2.69E-05	2.03E-05	2.03E-05	1.12E-05	1.01E-06	1.45E-05	9.03E-06	9.03E-06	4.47E-06
2796	257084.3	4086258	1.23E-05	1.78E-04	1.31E-04	1.31E-04	7.30E-05	1.86E-06	2.71E-05	2.04E-05	2.04E-05	1.12E-05	1.01E-06	1.46E-05	9.09E-06	9.09E-06	4.50E-06
2797	257062	4086250	1.23E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2798	257039.6	4086242	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.37E-05	1.88E-06	2.73E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.48E-05	9.18E-06	9.18E-06	4.54E-06
2799	257017.3	4086234	1.24E-05	1.80E-04	1.32E-04	1.32E-04	7.38E-05	1.89E-06	2.74E-05	2.07E-05	2.07E-05	1.14E-05	1.02E-06	1.48E-05	9.20E-06	9.20E-06	4.55E-06
2800	256994.9	4086226	1.24E-05	1.80E-04	1.33E-04	1.33E-04	7.39E-05	1.89E-06	2.74E-05	2.07E-05	2.07E-05	1.14E-05	1.03E-06	1.48E-05	9.21E-06	9.21E-06	4.56E-06
2801	256972.6	4086218	1.24E-05	1.80E-04	1.32E-04	1.32E-04	7.38E-05	1.88E-06	2.74E-05	2.07E-05	2.07E-05	1.14E-05	1.02E-06	1.48E-05	9.19E-06	9.19E-06	4.55E-06
2802	256950.2	4086209	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.36E-05	1.88E-06	2.73E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.48E-05	9.17E-06	9.17E-06	4.54E-06
2803	256927.9	4086201	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.73E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.16E-06	9.16E-06	4.53E-06
2804	256905.5	4086193	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.15E-06	9.15E-06	4.53E-06
2805	256883.2	4086185	1.23E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2806	256860.8	4086177	1.23E-05	1.78E-04	1.32E-04	1.32E-04	7.33E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2807	256838.5	4086169	1.23E-05	1.78E-04	1.32E-04	1.32E-04	7.33E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2808	256816.1	4086160	1.23E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2809	256793.8	4086152	1.23E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.53E-06
2810	256771.4	4086144	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.15E-06	9.15E-06	4.53E-06
2811	256749.1	4086136	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.16E-06	9.16E-06	4.53E-06
2812	256726.7	4086128	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.73E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.16E-06	9.16E-06	4.53E-06
2813	256704.4	4086120	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.73E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.48E-05	9.16E-06	9.16E-06	4.54E-06
2814	256672.1	4086090	1.26E-05	1.82E-04	1.34E-04	1.34E-04	7.48E-05	1.91E-06	2.77E-05	2.09E-05	2.09E-05	1.15E-05	1.04E-06	1.50E-05	9.31E-06	9.31E-06	4.61E-06
2815	256662.1	4086068	1.28E-05	1.85E-04	1.36E-04	1.36E-04	7.60E-05	1.94E-06	2.82E-05	2.13E-05	2.13E-05	1.17E-05	1.05E-06	1.52E-05	9.47E-06	9.47E-06	4.69E-06
2816	256652.2	4086047	1.30E-05	1.88E-04	1.39E-04	1.39E-04	7.72E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.62E-06	9.62E-06	4.76E-06
2817	256642.2	4086025	1.32E-05	1.90E-04	1.40E-04	1.40E-04	7.82E-05	2.00E-06	2.90E-05	2.19E-05	2.19E-05	1.20E-05	1.09E-06	1.57E-05	9.75E-06	9.75E-06	4.83E-06
2818	256632.3	4086003	1.33E-05	1.92E-04	1.42E-04	1.42E-04	7.91E-05	2.02E-06	2.93E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.86E-06	9.86E-06	4.88E-06
2819	256622.3	4085982	1.34E-05	1.94E-04	1.43E-04	1.43E-04	7.98E-05	2.04E-06	2.96E-05	2.23E-05	2.23E-05	1.23E-05	1.11E-06	1.60E-05	9.94E-06	9.94E-06	4.92E-06
2820	256612.4	4085960	1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.03E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.11E-06	1.61E-05	1.00E-05	1.00E-05	4.95E-06
2821	256602.4	4085939	1.35E-05	1.96E-04	1.44E-04	1.44E-04	8.05E-05	2.06E-06	2.99E-05	2.26E-05	2.26E-05	1.24E-05	1.12E-06	1.62E-05	1.00E-05	1.00E-05	4.97E-06
2822	256592.5	4085917	1.35E-05	1.96E-04	1.44E-04	1.44E-04	8.05E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.12E-06	1.61E-05	1.00E-05	1.00E-05	4.96E-06
2823	256582.5	4085895	1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.01E-05	2.05E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.61E-05	9.98E-06	9.98E-06	4.94E-06
2824	256572.6	4085874	1.34E-05	1.93E-04	1.42E-04	1.42E-04	7.94E-05	2.03E-06	2.95E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.90E-06	9.90E-06	4.90E-06
2825	256562.6	4085852	1.32E-05	1.91E-04	1.41E-04	1.41E-04	7.84E-05	2.00E-06	2.91E-05	2.20E-05	2.20E-05	1.21E-05	1.09E-06	1.57E-05	9.77E-06	9.77E-06	4.84E-06
2826	256552.7	4085830	1.30E-05	1.88E-04	1.38E-04	1.38E-04	7.71E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.61E-06	9.61E-06	4.76E-06
2827	256542.7	4085809	1.27E-05	1.84E-04	1.35E-04	1.35E-04	7.54E-05	1.93E-06	2.80E-05	2.11E-05	2.11E-05	1.16E-05	1.05E-06	1.51E-05	9.40E-06	9.40E-06	4.65E-06
2828	256532.8	4085787	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.15E-06	9.15E-06	4.53E-06
2829	256522.8	4085766	1.20E-05	1.73E-04	1.28E-04	1.28E-04	7.12E-05	1.82E-06	2.64E-05	1.99E-05	1.99E-05	1.10E-05	9.87E-07	1.43E-05	8.87E-06	8.87E-06	4.39E-06
2830	256512.9	4085744	1.15E-05	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.51E-07	1.38E-05	8.55E-06	8.55E-06	4.23E-06
2831	256502.9	4085722	1.11E-05	1.60E-04	1.18E-04	1.18E-04	6.58E-05	1.68E-06	2.44E-05	1.84E-05	1.84E-05	1.01E-05	9.12E-07	1.32E-05	8.20E-06	8.20E-06	4.06E-06
2832	256493	4085701	1.06E-05	1.53E-04	1.13E-04	1.13E-04	6.29E-05	1.61E-06	2.33E-05	1.76E-05	1.76E-05	9.68E-06	8.72E-07	1.26E-05	7.84E-06	7.84E-06	3.88E-06
2833	256483	4085679	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.97E-05	1.53E-06	2.21E-05	1.67E-05	1.67E-05	9.20E-06	8.28E-07	1.20E-05	7.44E-06	7.44E-06	3.68E-06
2834	256473	4085658	9.50E-06	1.37E-04	1.01E-04	1.01E-04	5.65E-05	1.44E-06	2.09E-05	1.58E-05	1.58E-05	8.70E-06	7.83E-07	1.13E-05	7.04E-06	7.04E-06	3.48E-06
2835	256463.1	4085636	8.96E-06	1.30E-04	9.55E-05	9.55E-05	5.33E-05	1.36E-06	1.97E-05	1.49E-05	1.49E-05	8.20E-06	7.39E-07	1.07E-05	6.64E-06	6.64E-06	3.28E-06
2836	256453.1	4085614	8.43E-06	1.22E-04	8.99E-05	8.99E-05	5.01E-05	1.28E-06	1.86E-05	1.40E-05	1.40E-05	7.72E-06	6.95E-07	1.01E-05	6.24E-06	6.24E-06	3.09E-06
2837	256443.2	4085593	7.93E-06	1.15E-04	8.46E-05	8.46E-05	4.71E-05	1.20E-06	1.75E-05	1.32E-05	1.32E-05	7.26E-06	6.54E-07	9.46E-06	5.87E-06	5.87E-06	2.91E-06
2838	256433.2	4085571	7.47E-06	1.08E-04	7.96E-05	7.96E-05	4.44E-05	1.13E-06	1.65E-05	1.24E-05	1.24E-05	6.84E-06	6.16E-07	8.91E-06	5.53E-06	5.53E-06	2.74E-06
2839	256423.3	4085550	7.06E-06	1.02E-04	7.52E-05	7.52E-05	4.19E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.46E-06	5.82E-07	8.41E-06	5.22E-06	5.22E-06	2.59E-06
2840	256413.3	4085528	6.69E-06	9.68E-05	7.13E-05	7.13E-05	3.98E-05	1.02E-06	1.47E-05	1.11E-05	1.11E-05	6.12E-06	5.52E-07	7.98E-06	4.96E-06	4.96E-06	2.45E-06
2841	256403.4	4085506	6.38E-06	9.23E-05	6.80E-05	6.80E-05	3.79E-05	9.68E-07	1.41E-05	1.06E-05	1.06E-05	5.84E-06	5.26E-07	7.60E-06	4.72E-06	4.72E-06	2.34E-06
2842	256393.4	4085485	6.12E-06	8.85E-05	6.52E-05	6.52E-05	3.64E-05	9.28E-07	1.35E-05	1.02E-05	1.02E-05	5.60E-06	5.04E-07	7.29E-06	4.53E-06	4.53E-06	2.24E-06
2843	256383.5	4085463	5.90E-06	8.53E-05	6.28E-05	6.28E-05	3.50E-05	8.95E-07	1.30E-05	9.81E-06	9.81E-06	5.39E-06	4.86E-07	7.03E-06	4.37E-06	4.37E-06	2.16E-06
2844	256373.5	4085441	5.71E-06	8.26E-05	6.09E-05	6.09E-05	3.39E-05	8.66E-07	1.26E-05	9.50E-06	9.50E-06	5.22E-06	4.71E-07	6.81E-06	4.23E-06	4.23E-06	2.09E-06
2845	256363.6	4085420	5.55E-06	8.03E-05	5.92E-05	5.92E-05	3.30E-05	8.42E-07	1.22E-05	9.24E-06	9.24E-06	5.08E-06	4.58E-07	6.62E-06	4.11E-06	4.11E-06	2.03E-06
2846	256353.6	4085398	5.41E-06	7.83E-05	5.77E-05	5.77E-05	3.22E-05	8.21E-07	1.19E-05	9.01E-06	9.01E-06	4.95E-06	4.46E-07	6.45E-06	4.01E-06	4.01E-06	1.98E-06
2847	256343.7	4085377	5.28E-06	7.64E-05	5.63E-05	5.63E-05	3.14E-05	8.02E-07	1.16E-05	8.80E-06	8.80E-06	4.84E-06	4.36E-07	6.30E-06	3.91E-06	3.91E-06	1.94E-06
2848	256333.7	4085355	5.17E-06	7.47E-05	5.51E-05	5.51E-05	3.07E-05	7.84E-07	1.14E-05	8.60E-06	8.60E-06	4.73E-06	4.26E-07	6.16E-06	3.83E-06	3.83E-06	1.89E-06
2849	256323.8	4085333	5.05E-06	7.31E-05	5.38E-05	5.38E-05	3.00E-05	7.67E-07	1.11E-05	8.41E-06	8.41E-06	4.62E-06	4.16E-07	6.02E-06	3.74E-06	3.74E-06	1.85E-06
2850	256313.8	4085312	4.94E-06	7.15E-05	5.27E-05	5.27E-05	2.94E-05	7.50E-07	1.09E-05	8.22E-06	8.22E-06	4.52E-06	4.07E-07	5.89E-06	3.66E-06	3.66E-06	1.81E-06
2851	256303.9	4085290	4.83E-06	6.99E-05	5.15E-05	5.15E-05	2.87E-05	7.34E-07	1.07E-05	8.05E-06	8.05E-06	4.42E-06	3.98E-07	5.76E-06	3.58E-06	3.58E-06	1.77E-06
2852	256293.9	4085269	4.73E-06	6.85E-05	5.05E-05	5.05E-05	2.81E-05	7.18E-07	1.04E-05	7.88E-06	7.88E-06	4.33E-06	3.90E-07	5.64E-06	3.51E-06	3.51E-06	1.74E-06
2853	256284	4085247	4.64E-06	6.71E-05	4.95E-05	4.95E-05	2.76E-05	7.04E-07	1.02E-05	7.73E-06	7.73E-06	4.25E-06	3.83E-07	5.53E-06	3.44E-06	3.44E-06	1.70E-06
2854	256274	4085225	4.56E-06	6.59E-05	4.86E-05	4.86E-05	2.71E-05	6.92E-07	1.00E-05	7.59E-06	7.59E-06	4.17E-06	3.76E-07	5.44E-06	3.38E-06	3.38E-06	1.67E-06
2855	257620.7	4086454	8.93E-06	1.29E-04	9.52E-05	9.52E-05	5.30E-05	1.35E-06	1.97E-05	1.49E-05	1.49E-05	8.17E-06	7.36E-07	1.06E-05	6.61E-06	6.61E-06	3.27E-06
2856	257645	4086453	8.81E-06	1.27E-04	9.40E-05	9.40E-05	5.24E-05	1.34E-06	1.94E-05	1.47E-05	1.47E-05	8.06E-06	7.26E-07	1.05E-05	6.53E-06	6.53E-06	3.23E-06
2857	257669.2	4086452	8.70E-06	1.26E-04	9.28E-05	9.28E-05	5.17E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.96E-06	7.17E-07	1.04E-05	6.44E-06	6.44E-06	3.19E-06
2858	257693.5	4086451	8.58E-06	1.24E-04	9.15E-05	9.15E-05	5.10E-05	1.30E-06	1.89E-05	1.43E-05	1.43E-05	7.85E-06	7.08E-07	1.02E-05	6.36E-06	6.36E-06	3.15E-06
2859	257717.8	4086450	8.47E-06	1.22E-04	9.03E-05	9.03E-05	5.03E-05	1.29E-06	1.87E-05	1.41E-05	1.41E-05	7.75E-06	6.98E-07	1.01E-05	6.27E-06	6.27E-06	3.10E-06
2860	257742.1	4086449	8.35E-06	1.21E-04	8.90E-05	8.90E-05	4.96E-05	1.27E-06	1.84E-05	1.39E-05	1.39E-05	7.64E-06	6.88E-07	9.96E-06	6.18E-06	6.18E-06	3.06E-06
2861	257766.4	4086448	8.25E-06	1.19E-04	8.79E-05	8.79E-05	4.90E-05	1.25E-06	1.82E-05	1.37E-05	1.37E-05	7.55E-06	6.80E-07	9.84E-06	6.11E-06	6.11E-06	3.02E-06
2862	257790.7	4086447	8.15E-06	1.18E-04	8.69E-05	8.69E-05	4.84E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.46E-06	6.72E-07	9.72E-06	6.04E-06	6.04E-06	2.99E-06
2863	257814.9	4086446	8.05E-06	1.16E-04	8.58E-05	8.58E-05	4.79E-05	1.22E-06	1.77E-05	1.34E-05	1.34E-05	7.37E-06	6.64E-07	9.60E-06	5.96E-06	5.96E-06	2.95E-06
2864	257839.2	4086445	7.95E-06	1.15E-04	8.48E-05	8.48E-05	4.73E-05	1.21E-06	1.75E-05	1.32E-05	1.32E-05	7.28E-06	6.56E-07	9.48E-06	5.89E-06	5.89E-06	2.92E-06
2865	257863.5	4086444	7.85E-06	1.14E-04	8.37E-05	8.37E-05	4.67E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.18E-06	6.47E-07	9.36E-06	5.81E-06	5.81E-06	2.88E-06
2866	257887.8	4086443	7.74E-06	1.12E-04	8.25E-05	8.25E-05	4.60E-05	1.17E-06	1.71E-05	1.29E-05	1.29E-05	7.08E-06	6.38E-07	9.23E-06	5.73E-06	5.73E-06	2.84E-06
2867	257912.1	4086441	7.63E-06	1.10E-04	8.13E-05	8.13E-05	4.53E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.98E-06	6.29E-07	9.10E-06	5.65E-06	5.65E-06	2.80E-06
2868	257936.3	4086440	7.51E-06	1.09E-04	8.00E-05	8.00E-05	4.46E-05	1.14E-06	1.65E-05	1.25E-05	1.25E-05	6.87E-06	6.19E-07	8.95E-06	5.56E-06	5.56E-06	2.75E-06
2869	257960.6	4086439	7.38E-06	1.07E-04	7.87E-05	7.87E-05	4.39E-05	1.12E-06	1.63E-05	1.23E-05	1.23E-05	6.75E-06	6.08E-07	8.80E-06	5.46E-06	5.46E-06	2.70E-06
2870	257984.9	4086438	7.24E-06	1.05E-04	7.72E-05	7.72E-05	4.31E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.63E-06	5.97E-07	8.64E-06	5.36E-06	5.36E-06	2.66E-06
2871	258009.2	4086437	7.10E-06	1.03E-04	7.57E-05	7.57E-05	4.22E-05	1.08E-06	1.56E-05	1.18E-05	1.18E-05	6.50E-06	5.85E-07	8.47E-06	5.26E-06	5.26E-06	2.60E-06
2872	258033.5	4086436	6.96E-06	1.01E-04	7.42E-05	7.42E-05	4.14E-05	1.06E-06	1.53E-05	1.16E-05	1.16E-05	6.37E-06	5.74E-07	8.30E-06	5.15E-06	5.15E-06	2.55E-06
2873	258057.8	4086435	6.82E-06	9.86E-05	7.27E-05	7.27E-05	4.05E-05	1.03E-06	1.50E-05	1.13E-05	1.13E-05	6.24E-06	5.62E-07	8.13E-06	5.05E-06	5.05E-06	2.50E-06
2874	258082	4086434	6.67E-06	9.65E-05	7.11E-05	7.11E-05	3.97E-05	1.01E-06	1.47E-05	1.11E-05	1.11E-05	6.11E-06	5.50E-07	7.95E-06	4.94E-06	4.94E-06	2.45E-06
2875	258106.3	4086433	6.53E-06	9.45E-05	6.96E-05	6.96E-05	3.88E-05	9.91E-07	1.44E-05	1.09E-05	1.09E-05	5.98E-06	5.38E-07	7.79E-06	4.84E-06	4.84E-06	2.39E-06
2876	258130.6	4086432	6.40E-06	9.26E-05	6.82E-05	6.82E-05	3.80E-05	9.72E-07	1.41E-05	1.07E-05	1.07E-05	5.86E-06	5.28E-07	7.63E-06	4.74E-06	4.74E-06	2.35E-06
2877	258154.9	4086431	6.28E-06	9.08E-05	6.69E-05	6.69E-05	3.73E-05	9.53E-07	1.38E-05	1.05E-05	1.05E-05	5.75E-06	5.18E-07	7.49E-06	4.65E-06	4.65E-06	2.30E-06
2878	258179.2	4086430	6.16E-06	8.91E-05	6.57E-05	6.57E-05	3.66E-05	9.35E-07	1.36E-05	1.03E-05	1.03E-05	5.64E-06	5.08E-07	7.35E-06	4.56E-06	4.56E-06	2.26E-06
2879	258203.4	4086429	6.06E-06	8.76E-05	6.45E-05	6.45E-05	3.60E-05	9.19E-07	1.33E-05	1.01E-05	1.01E-05	5.54E-06	4.99E-07	7.22E-06	4.48E-06	4.48E-06	2.22E-06
2880	258227.7	4086427	5.95E-06	8.61E-05	6.35E-05	6.35E-05	3.54E-05	9.03E-07	1.31E-05	9.91E-06	9.91E-06	5.45E-06	4.91E-07	7.10E-06	4.41E-06	4.41E-06	2.18E-06

2881	258252	4086426	5.85E-06	8.47E-05	6.24E-05	6.24E-05	3.48E-05	8.89E-07	1.29E-05	9.74E-06	9.74E-06	5.36E-06	4.83E-07	6.98E-06	4.34E-06	4.34E-06	2.15E-06
2882	258276.3	4086425	5.75E-06	8.32E-05	6.13E-05	6.13E-05	3.42E-05	8.73E-07	1.27E-05	9.58E-06	9.58E-06	5.27E-06	4.74E-07	6.86E-06	4.26E-06	4.26E-06	2.11E-06
2883	258300.6	4086424	5.65E-06	8.17E-05	6.02E-05	6.02E-05	3.36E-05	8.58E-07	1.25E-05	9.41E-06	9.41E-06	5.17E-06	4.66E-07	6.74E-06	4.19E-06	4.19E-06	2.07E-06
2884	258324.9	4086423	5.55E-06	8.02E-05	5.91E-05	5.91E-05	3.30E-05	8.42E-07	1.22E-05	9.23E-06	9.23E-06	5.08E-06	4.57E-07	6.61E-06	4.11E-06	4.11E-06	2.03E-06
2885	258349.1	4086422	5.44E-06	7.87E-05	5.80E-05	5.80E-05	3.23E-05	8.26E-07	1.20E-05	9.06E-06	9.06E-06	4.98E-06	4.48E-07	6.49E-06	4.03E-06	4.03E-06	1.99E-06
2886	258373.4	4086421	5.33E-06	7.71E-05	5.68E-05	5.68E-05	3.17E-05	8.09E-07	1.17E-05	8.87E-06	8.87E-06	4.88E-06	4.39E-07	6.36E-06	3.95E-06	3.95E-06	1.95E-06
2887	258397.7	4086420	5.22E-06	7.55E-05	5.57E-05	5.57E-05	3.10E-05	7.93E-07	1.15E-05	8.69E-06	8.69E-06	4.78E-06	4.31E-07	6.23E-06	3.87E-06	3.87E-06	1.91E-06
2888	258422	4086419	5.11E-06	7.40E-05	5.45E-05	5.45E-05	3.04E-05	7.76E-07	1.13E-05	8.51E-06	8.51E-06	4.68E-06	4.22E-07	6.10E-06	3.79E-06	3.79E-06	1.87E-06
2889	257607	4086646	7.27E-06	1.05E-04	7.75E-05	7.75E-05	4.32E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.65E-06	5.99E-07	8.66E-06	5.38E-06	5.38E-06	2.66E-06
2890	257584.4	4086638	7.40E-06	1.07E-04	7.89E-05	7.89E-05	4.40E-05	1.12E-06	1.63E-05	1.23E-05	1.23E-05	6.77E-06	6.10E-07	8.83E-06	5.48E-06	5.48E-06	2.71E-06
2891	257561.8	4086629	7.55E-06	1.09E-04	8.05E-05	8.05E-05	4.49E-05	1.15E-06	1.66E-05	1.26E-05	1.26E-05	6.91E-06	6.22E-07	9.00E-06	5.59E-06	5.59E-06	2.77E-06
2892	257539.3	4086621	7.70E-06	1.11E-04	8.20E-05	8.20E-05	4.57E-05	1.17E-06	1.70E-05	1.28E-05	1.28E-05	7.04E-06	6.34E-07	9.18E-06	5.70E-06	5.70E-06	2.82E-06
2893	257516.7	4086613	7.85E-06	1.14E-04	8.37E-05	8.37E-05	4.67E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.18E-06	6.47E-07	9.36E-06	5.81E-06	5.81E-06	2.88E-06
2894	257494.2	4086605	8.01E-06	1.16E-04	8.53E-05	8.53E-05	4.76E-05	1.22E-06	1.76E-05	1.33E-05	1.33E-05	7.33E-06	6.60E-07	9.54E-06	5.93E-06	5.93E-06	2.93E-06
2895	257471.6	4086596	8.16E-06	1.18E-04	8.70E-05	8.70E-05	4.85E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.47E-06	6.73E-07	9.73E-06	6.04E-06	6.04E-06	2.99E-06
2896	257449	4086588	8.32E-06	1.20E-04	8.86E-05	8.86E-05	4.94E-05	1.26E-06	1.83E-05	1.38E-05	1.38E-05	7.61E-06	6.85E-07	9.91E-06	6.16E-06	6.16E-06	3.05E-06
2897	257426.5	4086580	8.46E-06	1.22E-04	9.02E-05	9.02E-05	5.03E-05	1.28E-06	1.86E-05	1.41E-05	1.41E-05	7.74E-06	6.98E-07	1.01E-05	6.27E-06	6.27E-06	3.10E-06
2898	257403.9	4086572	8.60E-06	1.24E-04	9.17E-05	9.17E-05	5.11E-05	1.31E-06	1.90E-05	1.43E-05	1.43E-05	7.87E-06	7.09E-07	1.03E-05	6.37E-06	6.37E-06	3.15E-06
2899	257381.3	4086563	8.74E-06	1.26E-04	9.31E-05	9.31E-05	5.19E-05	1.33E-06	1.93E-05	1.45E-05	1.45E-05	8.00E-06	7.20E-07	1.04E-05	6.47E-06	6.47E-06	3.20E-06
2900	257358.8	4086555	8.86E-06	1.28E-04	9.44E-05	9.44E-05	5.26E-05	1.34E-06	1.95E-05	1.47E-05	1.47E-05	8.11E-06	7.30E-07	1.06E-05	6.56E-06	6.56E-06	3.25E-06
2901	257336.2	4086547	8.97E-06	1.30E-04	9.56E-05	9.56E-05	5.33E-05	1.36E-06	1.98E-05	1.49E-05	1.49E-05	8.21E-06	7.39E-07	1.07E-05	6.64E-06	6.64E-06	3.29E-06
2902	257313.6	4086539	9.07E-06	1.31E-04	9.67E-05	9.67E-05	5.39E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.30E-06	7.48E-07	1.08E-05	6.72E-06	6.72E-06	3.33E-06
2903	257291.1	4086530	9.17E-06	1.33E-04	9.78E-05	9.78E-05	5.45E-05	1.39E-06	2.02E-05	1.53E-05	1.53E-05	8.39E-06	7.56E-07	1.09E-05	6.79E-06	6.79E-06	3.36E-06
2904	257268.5	4086522	9.26E-06	1.34E-04	9.87E-05	9.87E-05	5.50E-05	1.41E-06	2.04E-05	1.54E-05	1.54E-05	8.48E-06	7.63E-07	1.10E-05	6.86E-06	6.86E-06	3.40E-06
2905	257246	4086514	9.36E-06	1.35E-04	9.98E-05	9.98E-05	5.56E-05	1.42E-06	2.06E-05	1.56E-05	1.56E-05	8.56E-06	7.71E-07	1.12E-05	6.93E-06	6.93E-06	3.43E-06
2906	257223.4	4086506	9.46E-06	1.37E-04	1.01E-04	1.01E-04	5.62E-05	1.44E-06	2.08E-05	1.58E-05	1.58E-05	8.66E-06	7.80E-07	1.13E-05	7.01E-06	7.01E-06	3.47E-06
2907	257200.8	4086498	9.56E-06	1.38E-04	1.02E-04	1.02E-04	5.68E-05	1.45E-06	2.11E-05	1.59E-05	1.59E-05	8.75E-06	7.88E-07	1.14E-05	7.08E-06	7.08E-06	3.50E-06
2908	257178.3	4086489	9.65E-06	1.40E-04	1.03E-04	1.03E-04	5.73E-05	1.46E-06	2.13E-05	1.61E-05	1.61E-05	8.83E-06	7.95E-07	1.15E-05	7.14E-06	7.14E-06	3.54E-06
2909	257155.7	4086481	9.74E-06	1.41E-04	1.04E-04	1.04E-04	5.79E-05	1.48E-06	2.15E-05	1.62E-05	1.62E-05	8.91E-06	8.03E-07	1.16E-05	7.21E-06	7.21E-06	3.57E-06
2910	257133.1	4086473	9.83E-06	1.42E-04	1.05E-04	1.05E-04	5.84E-05	1.49E-06	2.17E-05	1.64E-05	1.64E-05	9.00E-06	8.10E-07	1.17E-05	7.28E-06	7.28E-06	3.60E-06
2911	257110.6	4086465	9.92E-06	1.43E-04	1.06E-04	1.06E-04	5.90E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.08E-06	8.18E-07	1.18E-05	7.35E-06	7.35E-06	3.64E-06
2912	257088	4086456	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.95E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.16E-06	8.25E-07	1.19E-05	7.41E-06	7.41E-06	3.67E-06
2913	257065.4	4086448	1.01E-05	1.46E-04	1.08E-04	1.08E-04	6.00E-05	1.53E-06	2.22E-05	1.68E-05	1.68E-05	9.23E-06	8.32E-07	1.20E-05	7.47E-06	7.47E-06	3.70E-06
2914	257042.9	4086440	1.02E-05	1.47E-04	1.08E-04	1.08E-04	6.04E-05	1.54E-06	2.24E-05	1.69E-05	1.69E-05	9.30E-06	8.38E-07	1.21E-05	7.53E-06	7.53E-06	3.73E-06
2915	257020.3	4086432	1.02E-05	1.48E-04	1.09E-04	1.09E-04	6.08E-05	1.55E-06	2.25E-05	1.70E-05	1.70E-05	9.36E-06	8.43E-07	1.22E-05	7.58E-06	7.58E-06	3.75E-06
2916	256997.8	4086423	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.11E-05	1.56E-06	2.27E-05	1.71E-05	1.71E-05	9.42E-06	8.48E-07	1.23E-05	7.62E-06	7.62E-06	3.77E-06
2917	256975.2	4086415	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.45E-06	8.51E-07	1.23E-05	7.65E-06	7.65E-06	3.79E-06
2918	256952.6	4086407	1.04E-05	1.50E-04	1.10E-04	1.10E-04	6.16E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.48E-06	8.54E-07	1.23E-05	7.67E-06	7.67E-06	3.80E-06
2919	256930.1	4086399	1.04E-05	1.50E-04	1.11E-04	1.11E-04	6.16E-05	1.57E-06	2.29E-05	1.73E-05	1.73E-05	9.49E-06	8.55E-07	1.24E-05	7.68E-06	7.68E-06	3.80E-06
2920	256907.5	4086390	1.04E-05	1.50E-04	1.11E-04	1.11E-04	6.16E-05	1.57E-06	2.29E-05	1.73E-05	1.73E-05	9.49E-06	8.55E-07	1.24E-05	7.68E-06	7.68E-06	3.80E-06
2921	256884.9	4086382	1.04E-05	1.50E-04	1.11E-04	1.11E-04	6.16E-05	1.57E-06	2.28E-05	1.73E-05	1.73E-05	9.49E-06	8.54E-07	1.24E-05	7.68E-06	7.68E-06	3.80E-06
2922	256862.4	4086374	1.04E-05	1.50E-04	1.10E-04	1.10E-04	6.15E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.47E-06	8.53E-07	1.23E-05	7.67E-06	7.67E-06	3.79E-06
2923	256839.8	4086366	1.03E-05	1.50E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.46E-06	8.52E-07	1.23E-05	7.66E-06	7.66E-06	3.79E-06
2924	256817.2	4086357	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.45E-06	8.51E-07	1.23E-05	7.65E-06	7.65E-06	3.78E-06
2925	256794.7	4086349	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.13E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.44E-06	8.50E-07	1.23E-05	7.64E-06	7.64E-06	3.78E-06
2926	256772.1	4086341	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.13E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.44E-06	8.50E-07	1.23E-05	7.64E-06	7.64E-06	3.78E-06
2927	256749.6	4086333	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.13E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.44E-06	8.51E-07	1.23E-05	7.64E-06	7.64E-06	3.78E-06
2928	256727	4086324	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.45E-06	8.51E-07	1.23E-05	7.65E-06	7.65E-06	3.79E-06
2929	256704.4	4086316	1.03E-05	1.50E-04	1.10E-04	1.10E-04	6.15E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.47E-06	8.53E-07	1.23E-05	7.66E-06	7.66E-06	3.79E-06
2930	256681.9	4086308	1.04E-05	1.50E-04	1.11E-04	1.11E-04	6.16E-05	1.57E-06	2.28E-05	1.73E-05	1.73E-05	9.49E-06	8.54E-07	1.24E-05	7.68E-06	7.68E-06	3.80E-06
2931	256659.3	4086300	1.04E-05	1.50E-04	1.11E-04	1.11E-04	6.17E-05	1.58E-06	2.29E-05	1.73E-05	1.73E-05	9.51E-06	8.56E-07	1.24E-05	7.69E-06	7.69E-06	3.81E-06
2932	256636.7	4086291	1.04E-05	1.51E-04	1.11E-04	1.11E-04	6.19E-05	1.58E-06	2.29E-05	1.73E-05	1.73E-05	9.53E-06	8.58E-07	1.24E-05	7.71E-06	7.71E-06	3.82E-06
2933	256614.2	4086283	1.04E-05	1.51E-04	1.11E-04	1.11E-04	6.21E-05	1.59E-06	2.30E-05	1.74E-05	1.74E-05	9.56E-06	8.61E-07	1.25E-05	7.74E-06	7.74E-06	3.83E-06
2934	256591.6	4086275	1.05E-05	1.52E-04	1.12E-04	1.12E-04	6.23E-05	1.59E-06	2.31E-05	1.75E-05	1.75E-05	9.60E-06	8.64E-07	1.25E-05	7.77E-06	7.77E-06	3.84E-06
2935	256569	4086267	1.05E-05	1.52E-04	1.12E-04	1.12E-04	6.25E-05	1.59E-06	2.32E-05	1.75E-05	1.75E-05	9.62E-06	8.66E-07	1.25E-05	7.78E-06	7.78E-06	3.85E-06
2936	256536.4	4086237	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.35E-05	1.62E-06	2.36E-05	1.78E-05	1.78E-05	9.78E-06	8.81E-07	1.27E-05	7.92E-06	7.92E-06	3.92E-06
2937	256526.4	4086215	1.09E-05	1.57E-04	1.16E-04	1.16E-04	6.45E-05	1.65E-06	2.39E-05	1.81E-05	1.81E-05	9.93E-06	8.95E-07	1.29E-05	8.04E-06	8.04E-06	3.98E-06
2938	256516.3	4086193	1.10E-05	1.59E-04	1.17E-04	1.17E-04	6.55E-05	1.67E-06	2.43E-05	1.83E-05	1.83E-05	1.01E-05	9.08E-07	1.31E-05	8.16E-06	8.16E-06	4.04E-06
2939	256506.3	4086171	1.12E-05	1.61E-04	1.19E-04	1.19E-04	6.64E-05	1.69E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.20E-07	1.33E-05	8.27E-06	8.27E-06	4.09E-06
2940	256496.2	4086149	1.13E-05	1.64E-04	1.21E-04	1.21E-04	6.72E-05	1.72E-06	2.49E-05	1.88E-05	1.88E-05	1.03E-05	9.32E-07	1.35E-05	8.37E-06	8.37E-06	4.14E-06
2941	256486.2	4086128	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.79E-05	1.74E-06	2.52E-05	1.90E-05	1.90E-05	1.05E-05	9.42E-07	1.36E-05	8.47E-06	8.47E-06	4.19E-06
2942	256476.1	4086106	1.15E-05	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.51E-07	1.38E-05	8.54E-06	8.54E-06	4.23E-06
2943	256466.1	4086084	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.91E-05	1.76E-06	2.56E-05	1.93E-05	1.93E-05	1.06E-05	9.58E-07	1.39E-05	8.61E-06	8.61E-06	4.26E-06
2944	256456.1	4086062	1.17E-05	1.69E-04	1.24E-04	1.24E-04	6.94E-05	1.77E-06	2.57E-05	1.94E-05	1.94E-05	1.07E-05	9.62E-07	1.39E-05	8.65E-06	8.65E-06	4.28E-06
2945	256446	4086040	1.17E-05	1.69E-04	1.25E-04	1.25E-04	6.95E-05	1.78E-06	2.58E-05	1.95E-05	1.95E-05	1.07E-05	9.64E-07	1.39E-05	8.66E-06	8.66E-06	4.29E-06
2946	256436	4086018	1.17E-05	1.69E-04	1.25E-04	1.25E-04	6.94E-05	1.77E-06	2.57E-05	1.94E-05	1.94E-05	1.07E-05	9.63E-07	1.39E-05	8.65E-06	8.65E-06	4.28E-06
2947	256425.9	4085997	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.91E-05	1.77E-06	2.56E-05	1.94E-05	1.94E-05	1.06E-05	9.59E-07	1.39E-05	8.61E-06	8.61E-06	4.26E-06
2948	256415.9	4085975	1.15E-05	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.51E-07	1.38E-05	8.55E-06	8.55E-06	4.23E-06
2949	256405.8	4085953	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.78E-05	1.73E-06	2.51E-05	1.90E-05	1.90E-05	1.04E-05	9.41E-07	1.36E-05	8.45E-06	8.45E-06	4.18E-06
2950	256395.8	4085931	1.12E-05	1.63E-04	1.20E-04	1.20E-04	6.68E-05	1.71E-06	2.48E-05	1.87E-05	1.87E-05	1.03E-05	9.26E-07	1.34E-05	8.32E-06	8.32E-06	4.12E-06
2951	256385.7	4085909	1.10E-05	1.59E-04	1.18E-04	1.18E-04	6.55E-05	1.67E-06	2.43E-05	1.83E-05	1.83E-05	1.01E-05	9.09E-07	1.31E-05	8.16E-06	8.16E-06	4.04E-06
2952	256375.7	4085888	1.08E-05	1.56E-04	1.15E-04	1.15E-04	6.40E-05	1.64E-06	2.37E-05	1.79E-05	1.79E-05	9.86E-06	8.88E-07	1.28E-05	7.98E-06	7.98E-06	3.95E-06
2953	256365.6	4085866	1.05E-05	1.52E-04	1.12E-04	1.12E-04	6.24E-05	1.59E-06	2.31E-05	1.75E-05	1.75E-05	9.60E-06	8.65E-07	1.25E-05	7.77E-06	7.77E-06	3.85E-06
2954	256355.6	4085844	1.01E-05	1.47E-04	1.08E-04	1.08E-04	6.03E-05	1.54E-06	2.24E-05	1.69E-05	1.69E-05	9.29E-06	8.37E-07	1.21E-05	7.52E-06	7.52E-06	3.72E-06
2955	256345.5	4085822	9.78E-06	1.41E-04	1.04E-04	1.04E-04	5.81E-05	1.48E-06	2.15E-05	1.63E-05	1.63E-05	8.95E-06	8.06E-07	1.17E-05	7.24E-06	7.24E-06	3.58E-06
2956	256335.5	4085800	9.37E-06	1.36E-04	9.99E-05	9.99E-05	5.57E-05	1.42E-06	2.07E-05	1.56E-05	1.56E-05	8.58E-06	7.73E-07	1.12E-05	6.94E-06	6.94E-06	3.44E-06
2957	256325.4	4085778	8.95E-06	1.29E-04	9.54E-05	9.54E-05	5.32E-05	1.36E-06	1.97E-05	1.49E-05	1.49E-05	8.19E-06	7.38E-07	1.07E-05	6.63E-06	6.63E-06	3.28E-06
2958	256315.4	4085757	8.51E-06	1.23E-04	9.08E-05	9.08E-05	5.06E-05	1.29E-06	1.88E-05	1.42E-05	1.42E-05	7.79E-06	7.02E-07	1.02E-05	6.31E-06	6.31E-06	3.12E-06
2959	256305.3	4085735	8.07E-06	1.17E-04	8.60E-05	8.60E-05	4.80E-05	1.22E-06	1.78E-05	1.34E-05	1.34E-05	7.39E-06	6.65E-07	9.62E-06	5.98E-06	5.98E-06	2.96E-06
2960	256295.3	4085713	7.64E-06	1.10E-04	8.14E-05	8.14E-05	4.54E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.99E-06	6.30E-07	9.11E-06	5.66E-06	5.66E-06	2.80E-06
2961	256285.2	4085691	7.22E-06	1.04E-04	7.70E-05	7.70E-05	4.29E-05	1.10E-06	1.59E-05	1.20E-05	1.20E-05	6.61E-06	5.95E-07	8.61E-06	5.35E-06	5.35E-06	2.65E-06
2962	256275.2	4085669	6.81E-06	9.85E-05	7.26E-05	7.26E-05	4.05E-05	1.03E-06	1.50E-05	1.13E-05	1.13E-05	6.23E-06	5.62E-07	8.12E-06	5.05E-06	5.05E-06	2.50E-06
2963	256265.1	4085648	6.44E-06	9.31E-05	6.87E-05	6.87E-05	3.83E-05	9.77E-07	1.42E-05	1.07E-05	1.07E-05	5.89E-06	5.31E-07	7.68E-06	4.77E-06	4.77E-06	2.36E-06
2964	256255.1	4085626	6.10E-06	8.83E-05	6.51E-05	6.51E-05	3.63E-05	9.26E-07	1.34E-05	1.02E-05	1.02E-05	5.58E-06	5.03E-07	7.28E-06	4.52E-06	4.52E-06	2.24E-06
2965	256245.1	4085604	5.80E-06	8.39E-05	6.19E-05	6.19E-05	3.45E-05	8.81E-07	1.28E-05	9.66E-06	9.66E-06	5.31E-06	4.78E-07	6.92E-06	4.30E-06	4.30E-06	2.13E-06
2966	256235	4085582	5.54E-06	8.02E-05	5.91E-05	5.91E-05	3.29E-05	8.41E-07	1.22E-05	9.23E-06	9.23E-06	5.07E-06	4.57E-07	6.61E-06	4.10E-06	4.10E-06	2.03E-06
2967	256225	4085560	5.32E-06	7.70E-05	5.68E-05	5.68E-05	3.16E-05	8.08E-07	1.17E-05	8.86E-06	8.86E-06	4.87E-06	4.39E-07	6.35E-06	3.94E-06	3.94E-06	1.95E-06
2968	256214.9	4085538	5.14E-06	7.43E-05	5.48E-05	5.48E-05	3.05E-05	7.80E-07	1.13E-05	8.55E-06	8.55E-06	4.70E-06	4.24E-07	6.13E-06	3.81E-06	3.81E-06	1.88E-06
2969	256204.9	4085517	4.99E-06	7.21E-05	5.31E-05	5.31E-05	2.96E-05	7.57E-07	1.10E-05	8.30E-06	8.30E-06	4.56E-06	4.11E-07	5.94E-06	3.69E-06	3.69E-06	1.83E-06
2970	256194.8	4085495	4.86E-06	7.02E-05	5.18E-05	5.18E-05	2.89E-05	7.37E-07	1.07E-05	8.08E-06	8.08E-06	4.44E-06	4.00E-07	5.79E-06	3.60E-06	3.60E-06	1.78E-06
2971	256184.8	4085473	4.75E-06	6.87E-05	5.06E-05	5.06E-05	2.82E-05	7.21E-07	1.05E-05	7.90E-06	7.90E-06	4.34E-06	3.91E-07	5.66E-06	3.52E-06	3.52E-06	1.74E-06
2972	256174.7	4085451	4.65E-06	6.72E-05	4.96E-05	4.96E-05	2.76E-05	7.06E-07	1.02E-05	7.74E-06	7.74E-06	4.25E-06	3.83E-07	5.54E-06	3.44E-06	3.44E-06	1.70E-06
2973	256164.7	4085429	4.56E-06	6.60E-05	4.86E-05	4.86E-05	2.71E-05	6.92E-07	1.01E-05	7.59E-06	7.59E-06	4.17E-06	3.76E-07	5.44E-06	3.38E-06	3.38E-06	1.67E-06
2974	256154.6	4085408	4.48E-06	6.47E-05	4.77E-05	4.77E-05	2.66E-05	6.79E-07	9.86E-06	7.45E-06	7.45E-06	4.10E-06	3.69E-07	5.34E-06	3.31E-06	3.31E-06	1.64E-06
2975	256144.6	4085386	4.39E-06	6.35E-05	4.68E-05	4.68E-05	2.61E-05	6.66E-07	9.67E-06	7.31E-06	7.31E-06	4.02E-06	3.62E-07	5.23E-06	3.25E-06	3.25E-06	1.61E-06
2976	256134.5	4085364	4.30E-06	6.22E-05	4.59E-05	4.59E-05	2.56E-05	6.53E-07	9.48E-06	7.16E-06	7.16E-06	3.94E-06	3.55E-07	5.13E-06	3.19E-06	3.19E-06	1.58E-06
2977	256124.5	4085342	4.22E-06	6.10E-05	4.50E-05	4.50E-05	2.51E-05	6.40E-07	9.29E-06	7.02E-06	7.02E-06	3.86E-06	3.48E-07	5.03E-06	3.12E-06	3.12E-06	1.55E-06
2978	256114.4	4085320	4.13E-06	5.97E-05	4.40E-05	4.40E-05	2.46E-05	6.27E-07	9.10E-06	6.88E-06	6.88E-06	3.78E-06	3.41E-07	4.93E-06	3.06E-06	3.06E-06	1.51E-06
2979	256104.4	4085298	4.05E-06	5.86E-05	4.32E-05	4.32E-05	2.41E-05	6.15E-07	8.93E-06	6.74E-06	6.74E-06	3.71E-06	3.34E-07	4.83E-06	3.00E-06	3.00E-06	1.48E-06
2980	256094.3	4085277	3.98E-06	5.75E-05	4.24E-05	4.24E-05	2.36E-05	6.04E-07	8.76E-06	6.62E-06	6.62E-06	3.64E-06	3.28E-07	4.74E-06	2.95E-06	2.95E-06	1.46E-06
2981	256084.3	4085255	3.91E-06	5.65E-05	4.16E-05	4.16E-05	2.32E-05	5.93E-07	8.61E-06	6.50E-06	6.50E-06	3.57E-06	3.22E-07	4.66E-06	2.89E-06	2.89E-06	1.43E-06
2982	256074.2	4085233	3.85E-06	5.56E-05	4.10E-05	4.10E-05	2.29E-05	5.84E-07	8.47E-06	6.40E-06	6.40E-06	3.52E-06	3.17E-07	4.59E-06	2.85E-06	2.85E-06	1.41E-06
2983	257629.5	4086654	7.14E-06	1.03E-04	7.61E-05	7.61E-05	4.24E-05	1.08E-06	1.57E-05	1.19E-05	1.19E-05	6.53E-06	5.88E-07	8.51E-06	5.29E-06	5.29E-06	2.62E-06

2984	257653.8	4086653	7.07E-06	1.02E-04	7.54E-05	7.54E-05	4.20E-05	1.07E-06	1.56E-05	1.18E-05	1.18E-05	6.47E-06	5.83E-07	8.43E-06	5.24E-06	5.24E-06	2.59E-06
2985	257678.1	4086652	7.01E-06	1.01E-04	7.47E-05	7.47E-05	4.17E-05	1.06E-06	1.54E-05	1.17E-05	1.17E-05	6.41E-06	5.78E-07	8.36E-06	5.19E-06	5.19E-06	2.57E-06
2986	257702.4	4086651	6.95E-06	1.01E-04	7.41E-05	7.41E-05	4.13E-05	1.05E-06	1.53E-05	1.16E-05	1.16E-05	6.36E-06	5.73E-07	8.28E-06	5.15E-06	5.15E-06	2.55E-06
2987	257726.7	4086650	6.89E-06	9.97E-05	7.35E-05	7.35E-05	4.10E-05	1.05E-06	1.52E-05	1.15E-05	1.15E-05	6.31E-06	5.68E-07	8.22E-06	5.10E-06	5.10E-06	2.53E-06
2988	257750.9	4086649	6.83E-06	9.88E-05	7.29E-05	7.29E-05	4.06E-05	1.04E-06	1.51E-05	1.14E-05	1.14E-05	6.25E-06	5.63E-07	8.15E-06	5.06E-06	5.06E-06	2.51E-06
2989	257775.2	4086648	6.77E-06	9.80E-05	7.22E-05	7.22E-05	4.03E-05	1.03E-06	1.49E-05	1.13E-05	1.13E-05	6.20E-06	5.58E-07	8.08E-06	5.02E-06	5.02E-06	2.48E-06
2990	257799.5	4086647	6.71E-06	9.71E-05	7.16E-05	7.16E-05	3.99E-05	1.02E-06	1.48E-05	1.12E-05	1.12E-05	6.14E-06	5.53E-07	8.00E-06	4.97E-06	4.97E-06	2.46E-06
2991	257823.8	4086646	6.65E-06	9.61E-05	7.09E-05	7.09E-05	3.95E-05	1.01E-06	1.46E-05	1.11E-05	1.11E-05	6.08E-06	5.48E-07	7.92E-06	4.92E-06	4.92E-06	2.44E-06
2992	257848.1	4086644	6.58E-06	9.51E-05	7.01E-05	7.01E-05	3.91E-05	9.98E-07	1.45E-05	1.09E-05	1.09E-05	6.02E-06	5.42E-07	7.84E-06	4.87E-06	4.87E-06	2.41E-06
2993	257872.4	4086643	6.50E-06	9.40E-05	6.93E-05	6.93E-05	3.86E-05	9.86E-07	1.43E-05	1.08E-05	1.08E-05	5.95E-06	5.36E-07	7.75E-06	4.81E-06	4.81E-06	2.38E-06
2994	257896.6	4086642	6.41E-06	9.27E-05	6.84E-05	6.84E-05	3.81E-05	9.73E-07	1.41E-05	1.07E-05	1.07E-05	5.87E-06	5.29E-07	7.64E-06	4.75E-06	4.75E-06	2.35E-06
2995	257920.9	4086641	6.32E-06	9.14E-05	6.74E-05	6.74E-05	3.76E-05	9.59E-07	1.39E-05	1.05E-05	1.05E-05	5.78E-06	5.21E-07	7.53E-06	4.68E-06	4.68E-06	2.32E-06
2996	257945.2	4086640	6.22E-06	8.99E-05	6.63E-05	6.63E-05	3.70E-05	9.44E-07	1.37E-05	1.04E-05	1.04E-05	5.69E-06	5.13E-07	7.41E-06	4.61E-06	4.61E-06	2.28E-06
2997	257969.5	4086639	6.11E-06	8.84E-05	6.52E-05	6.52E-05	3.63E-05	9.28E-07	1.35E-05	1.02E-05	1.02E-05	5.59E-06	5.04E-07	7.29E-06	4.53E-06	4.53E-06	2.24E-06
2998	257993.8	4086638	6.00E-06	8.68E-05	6.40E-05	6.40E-05	3.57E-05	9.11E-07	1.32E-05	9.99E-06	9.99E-06	5.49E-06	4.95E-07	7.15E-06	4.44E-06	4.44E-06	2.20E-06
2999	258018	4086637	5.88E-06	8.51E-05	6.27E-05	6.27E-05	3.50E-05	8.93E-07	1.30E-05	9.79E-06	9.79E-06	5.38E-06	4.85E-07	7.01E-06	4.36E-06	4.36E-06	2.16E-06
3000	258042.3	4086636	5.76E-06	8.33E-05	6.14E-05	6.14E-05	3.42E-05	8.74E-07	1.27E-05	9.59E-06	9.59E-06	5.27E-06	4.75E-07	6.87E-06	4.27E-06	4.27E-06	2.11E-06
3001	258066.6	4086635	5.64E-06	8.16E-05	6.01E-05	6.01E-05	3.35E-05	8.56E-07	1.24E-05	9.39E-06	9.39E-06	5.16E-06	4.65E-07	6.72E-06	4.18E-06	4.18E-06	2.07E-06
3002	258090.9	4086634	5.52E-06	7.98E-05	5.88E-05	5.88E-05	3.28E-05	8.38E-07	1.22E-05	9.19E-06	9.19E-06	5.05E-06	4.55E-07	6.58E-06	4.09E-06	4.09E-06	2.02E-06
3003	258115.2	4086633	5.40E-06	7.82E-05	5.76E-05	5.76E-05	3.21E-05	8.20E-07	1.19E-05	8.99E-06	8.99E-06	4.94E-06	4.45E-07	6.44E-06	4.00E-06	4.00E-06	1.98E-06
3004	258139.5	4086632	5.29E-06	7.66E-05	5.64E-05	5.64E-05	3.15E-05	8.03E-07	1.17E-05	8.81E-06	8.81E-06	4.84E-06	4.36E-07	6.31E-06	3.92E-06	3.92E-06	1.94E-06
3005	258163.7	4086630	5.19E-06	7.51E-05	5.53E-05	5.53E-05	3.08E-05	7.88E-07	1.14E-05	8.64E-06	8.64E-06	4.75E-06	4.28E-07	6.19E-06	3.84E-06	3.84E-06	1.90E-06
3006	258188	4086629	5.10E-06	7.37E-05	5.43E-05	5.43E-05	3.03E-05	7.73E-07	1.12E-05	8.48E-06	8.48E-06	4.66E-06	4.20E-07	6.08E-06	3.77E-06	3.77E-06	1.87E-06
3007	258212.3	4086628	5.01E-06	7.24E-05	5.34E-05	5.34E-05	2.98E-05	7.60E-07	1.10E-05	8.34E-06	8.34E-06	4.58E-06	4.13E-07	5.97E-06	3.71E-06	3.71E-06	1.84E-06
3008	258236.6	4086627	4.93E-06	7.12E-05	5.25E-05	5.25E-05	2.93E-05	7.48E-07	1.09E-05	8.20E-06	8.20E-06	4.51E-06	4.06E-07	5.87E-06	3.65E-06	3.65E-06	1.81E-06
3009	258260.9	4086626	4.85E-06	7.01E-05	5.17E-05	5.17E-05	2.88E-05	7.36E-07	1.07E-05	8.07E-06	8.07E-06	4.44E-06	4.00E-07	5.78E-06	3.59E-06	3.59E-06	1.78E-06
3010	258285.1	4086625	4.77E-06	6.91E-05	5.09E-05	5.09E-05	2.84E-05	7.25E-07	1.05E-05	7.95E-06	7.95E-06	4.37E-06	3.94E-07	5.69E-06	3.54E-06	3.54E-06	1.75E-06
3011	258309.4	4086624	4.70E-06	6.80E-05	5.01E-05	5.01E-05	2.79E-05	7.14E-07	1.04E-05	7.83E-06	7.83E-06	4.30E-06	3.88E-07	5.61E-06	3.48E-06	3.48E-06	1.72E-06
3012	258333.7	4086623	4.63E-06	6.70E-05	4.94E-05	4.94E-05	2.75E-05	7.03E-07	1.02E-05	7.71E-06	7.71E-06	4.24E-06	3.82E-07	5.52E-06	3.43E-06	3.43E-06	1.70E-06
3013	258358	4086622	4.56E-06	6.60E-05	4.86E-05	4.86E-05	2.71E-05	6.92E-07	1.01E-05	7.59E-06	7.59E-06	4.17E-06	3.76E-07	5.44E-06	3.38E-06	3.38E-06	1.67E-06
3014	258382.3	4086621	4.49E-06	6.50E-05	4.79E-05	4.79E-05	2.67E-05	6.82E-07	9.90E-06	7.48E-06	7.48E-06	4.11E-06	3.70E-07	5.36E-06	3.33E-06	3.33E-06	1.65E-06
3015	258406.6	4086620	4.42E-06	6.40E-05	4.72E-05	4.72E-05	2.63E-05	6.71E-07	9.75E-06	7.36E-06	7.36E-06	4.05E-06	3.65E-07	5.27E-06	3.28E-06	3.28E-06	1.62E-06
3016	258430.8	4086619	4.35E-06	6.30E-05	4.64E-05	4.64E-05	2.59E-05	6.61E-07	9.59E-06	7.25E-06	7.25E-06	3.98E-06	3.59E-07	5.19E-06	3.22E-06	3.22E-06	1.60E-06
3017	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3018	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3019	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3020	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3021	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3022	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3023	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3024	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3025	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3026	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3027	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3028	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3029	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3030	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3031	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3032	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3033	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3034	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3035	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3036	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3037	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3038	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3039	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3040	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3041	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3042	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3043	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3044	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3045	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3046	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3047	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3048	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3049	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3050	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3051	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3052	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3053	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3054	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3055	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3056	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3057	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3058	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3059	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3060	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3061	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3062	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3063	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3064	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3065	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3066	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3067	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3068	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3069	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3070	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3071	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3072	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3073	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3074	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3075	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3076	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3077	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3078	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3079	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3080	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3081	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3082	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3083	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3084	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3085	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3086	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3087	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3088	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3089	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3090	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3091	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3092	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3093	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3094	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3095	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3096	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3097	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3098	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3099	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3100	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3101	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3102	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3103	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3104	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3105	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3106	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3107	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3108	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3109	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3110	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3111	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3112	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3113	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3114	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3115	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3116	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3117	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3118	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3119	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3120	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3121	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3122	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3123	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3124	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3125	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3126	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3127	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3128	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3129	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3130	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3131	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3132	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3133	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3134	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3135	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3136	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3137	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3138	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3139	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3140	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3141	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3142	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3143	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3144	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3145	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3146	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3147	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3148	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3149	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3150	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3151	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3152	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3153	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3154	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3155	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3156	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3157	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3158	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3159	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3160	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3161	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3162	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3163	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3164	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3165	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3166	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3167	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3168	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3169	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3170	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3171	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3172	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3173	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3174	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3175	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3176	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3177	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3178	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3179	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3180	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3181	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3182	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3183	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3184	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3185	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3186	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3187	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3188	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3189	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3190	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3191	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3192	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3193	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3194	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3195	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3196	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3197	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3198	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3199	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3200	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3201	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3202	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3203	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3204	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3205	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3206	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3207	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3208	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3209	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3210	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3211	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3212	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3213	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3214	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3215	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3216	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3217	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3218	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3219	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3220	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3221	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3222	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3223	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3224	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3225	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3226	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3227	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3228	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3229	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3230	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3231	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3232	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3233	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3234	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3235	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3236	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3237	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3238	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3239	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3240	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3241	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3242	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3243	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3244	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3245	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3246	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3247	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3248	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3249	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3250	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3251	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3252	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3253	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3254	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3255	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3256	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3257	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3258	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3259	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3260	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3261	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3262	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3263	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3264	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3265	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3266	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3267	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3268	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3269	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3270	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3271	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3272	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3273	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3274	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3275	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3276	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3277	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3278	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3279	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3280	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3281	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3282	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3283	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3284	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3285	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3286	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3287	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3288	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3289	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3290	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3291	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3292	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3293	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3294	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3295	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3296	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3297	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3298	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3299	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3300	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3301	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3302	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3303	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3304	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3305	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3306	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3307	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3308	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3309	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3310	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3311	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3312	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3313	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3314	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3315	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3316	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3317	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3318	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3319	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3320	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3321	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3322	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3323	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3324	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3325	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3326	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3327	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3328	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3329	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3330	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3331	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3332	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3333	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3334	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3335	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3336	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3337	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3338	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3339	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3340	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3341	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3342	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3343	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3344	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3345	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3346	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3347	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3348	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3349	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3350	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3351	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3352	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3353	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3354	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3355	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3356	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3357	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3358	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3359	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3360	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3361	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3362	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3363	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3364	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3365	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3366	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3367	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3368	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3369	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3370	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3371	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3372	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3373	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3374	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3375	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3376	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3377	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3378	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3379	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3380	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3381	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3382	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3383	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3384	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3385	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3386	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3387	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3388	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3389	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3390	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3391	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3392	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3393	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3394	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3395	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3396	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3397	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3398	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3399	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3400	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3401	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3402	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3403	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3404	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3405	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3406	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3407	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3408	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3409	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3410	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3411	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3412	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3413	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3414	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3415	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3416	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3417	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3418	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3419	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3420	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3421	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3422	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3423	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3424	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3425	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3426	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3427	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3428	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3429	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3430	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3431	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3432	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3433	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3434	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3435	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3436	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3437	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3438	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3439	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3440	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3441	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3442	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3443	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3444	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3445	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3446	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3447	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3448	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3449	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3450	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3451	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3452	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3453	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3454	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3455	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3456	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3457	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3458	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3459	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3460	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3461	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3462	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3463	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3464	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3465	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3466	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3467	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3468	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3469	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3470	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3471	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3472	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3473	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3474	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3475	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3476	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3477	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3478	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3479	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3480	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3481	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3482	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3483	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3484	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3485	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3486	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3487	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3488	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3489	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3490	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3491	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3492	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3493	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3494	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3495	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3496	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3497	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3498	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3499	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3500	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3501	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3502	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3503	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3504	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3505	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3506	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3507	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3508	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3509	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3510	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3511	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3512	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3513	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3514	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3515	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3516	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3517	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3518	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3519	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3520	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3521	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3522	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3523	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3524	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3525	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3526	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3527	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3528	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3529	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3530	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3531	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3532	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3533	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3534	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3535	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3536	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3537	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3538	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3539	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3540	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3541	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3542	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3543	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3544	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3545	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3546	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3547	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3548	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3549	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3550	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3551	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3552	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3553	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3554	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3555	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3556	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3557	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3558	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3559	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3560	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3561	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3562	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3563	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3564	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3565	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3566	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3567	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3568	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3569	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3570	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3571	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3572	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3573	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3574	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3575	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3576	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3577	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3578	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3579	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3580	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3581	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3582	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3583	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3584	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3585	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3586	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3587	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3588	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3589	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3590	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3591	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3592	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3593	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3594	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3595	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3596	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3597	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3598	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3599	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3600	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3601	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3602	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3603	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3604	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3605	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3606	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3607	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3608	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3609	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3610	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3611	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3612	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3613	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3614	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3615	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3616	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3617	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3618	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3619	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3620	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3621	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3622	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3623	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3624	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3625	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3626	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3627	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3628	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3629	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3630	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3631	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3632	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3633	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3634	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3635	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3636	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3637	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3638	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3639	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3640	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3641	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3642	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3643	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3644	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3645	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3646	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3647	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3648	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3649	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3650	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3651	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3652	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3653	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3654	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3655	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3656	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3657	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3658	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3659	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3660	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3661	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3662	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3663	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3664	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3665	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3666	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3667	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3668	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3669	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3670	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3671	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3672	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3673	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3674	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3675	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3676	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3677	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3678	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3679	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3680	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3681	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3682	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3683	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3684	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3685	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3686	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3687	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3688	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3689	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3690	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3691	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3692	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3693	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3694	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3695	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3696	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3697	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3698	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3699	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3700	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3701	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3702	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3703	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3704	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3705	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3706	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3707	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3708	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3709	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3710	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3711	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3712	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3713	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3714	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3715	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3716	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3717	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3718	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3719	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3720	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3721	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3722	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3723	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3724	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3725	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3726	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3727	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3728	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3729	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3730	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3731	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3732	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3733	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3734	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3735	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3736	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3737	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3738	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3739	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3740	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3741	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3742	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3743	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3744	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3745	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3746	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3747	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3748	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3749	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3750	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3751	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3752	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3753	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3754	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3755	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3756	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3757	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3758	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3759	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3760	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3761	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3762	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3763	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3764	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3765	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3766	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3767	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3768	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3769	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3770	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3771	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3772	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3773	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3774	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3775	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3776	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3777	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3778	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3779	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3780	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3781	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3782	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3783	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3784	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3785	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3786	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3787	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3788	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3789	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3790	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3791	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3792	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3793	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3794	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3795	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3796	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3797	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3798	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3799	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3800	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3801	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3802	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3803	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3804	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3805	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3806	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3807	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3808	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3809	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3810	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3811	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3812	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3813	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3814	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3815	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3816	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3817	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3818	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3819	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3820	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3821	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3822	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3823	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3824	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3825	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3826	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3827	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3828	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3829	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3830	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3831	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3832	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3833	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3834	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3835	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3836	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3837	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3838	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3839	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3840	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3841	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3842	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3843	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3844	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3845	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3846	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3847	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3848	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3849	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3850	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3851	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3852	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3853	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3854	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3855	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3856	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3857	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3858	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3859	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3860	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3861	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3862	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3863	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3864	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3865	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3866	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3867	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3868	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3869	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3870	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3871	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3872	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3873	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3874	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3875	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3876	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3877	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3878	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3879	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3880	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3881	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3882	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3883	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3884	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3885	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3886	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3887	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3888	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3889	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3890	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3891	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3892	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3893	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3894	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3895	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3896	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3897	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3898	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3899	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3900	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3901	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3902	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3903	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3904	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3905	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3906	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3907	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3908	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3909	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3910	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3911	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3912	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3913	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3914	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3915	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3916	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3917	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3918	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3919	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3920	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3921	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3922	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3923	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3924	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3925	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3926	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3927	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3928	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3929	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3930	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3931	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3932	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3933	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3934	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3935	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3936	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3937	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3938	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3939	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3940	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3941	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3942	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3943	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3944	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3945	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3946	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3947	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3948	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3949	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3950	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3951	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3952	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3953	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3954	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3955	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3956	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3957	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3958	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3959	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3960	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3961	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3962	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3963	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3964	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3965	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3966	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3967	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3968	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3969	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3970	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3971	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3972	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3973	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3974	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3975	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3976	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3977	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3978	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3979	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3980	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3981	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3982	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3983	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3984	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3985	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3986	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3987	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3988	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3989	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3990	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3991	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3992	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3993	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3994	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3995	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3996	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3997	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3998	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3999	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4000	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4001	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4002	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4003	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4004	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4005	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4006	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4007	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4008	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4009	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4010	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4011	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4012	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4013	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

4014	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4015	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4016	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4017	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4018	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4019	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4020	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4021	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4022	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4023	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4024	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4025	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4026	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4027	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4028	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4029	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4030	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4031	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4032	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4033	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4034	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4035	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4036	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4037	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4038	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4039	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4040	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4041	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4042	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4043	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4044	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4045	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4046	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4047	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4048	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4049	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4050	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4051	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4052	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4053	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4054	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4055	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4056	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4057	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4058	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4059	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4060	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4061	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4062	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4063	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4064	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4065	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4066	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4067	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4068	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4069	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4070	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4071	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4072	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4073	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4074	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4075	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4076	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4077	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4078	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4079	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4080	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4081	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4082	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4083	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4084	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4085	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4086	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4087	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4088	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4089	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4090	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4091	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4092	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4093	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4094	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4095	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4096	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4097	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4098	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4099	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4100	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4101	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4102	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4103	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4104	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4105	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4106	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4107	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4108	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4109	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4110	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4111	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4112	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4113	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4114	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4115	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4116	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

4117	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4118	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4119	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4120	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4121	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4122	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4123	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4124	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4125	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4126	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4127	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4128	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4129	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4130	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4131	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4132	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4133	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4134	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4135	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4136	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4137	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4138	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4139	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4140	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4141	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4142	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4143	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4144	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4145	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4146	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4147	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4148	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4149	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4150	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4151	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4152	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4153	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4154	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4155	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4156	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4157	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4158	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4159	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4160	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4161	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4162	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4163	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4164	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4165	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4166	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4167	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4168	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4169	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4170	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4171	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4172	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4173	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4174	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4175	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4176	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4177	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4178	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4179	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4180	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4181	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4182	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4183	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4184	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4185	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4186	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4187	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4188	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4189	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4190	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4191	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4192	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4193	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4194	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4195	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4196	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4197	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4198	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4199	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4200	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4201	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4202	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4203	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4204	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4205	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4206	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4207	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4208	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4209	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4210	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4211	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4212	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4213	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4214	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4215	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4216	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4217	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4218	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4219	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

4220	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4221	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4222	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4223	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4224	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4225	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4226	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4227	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4228	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4229	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4230	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4231	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4232	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4233	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4234	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4235	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4236	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4237	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4238	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4239	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4240	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4241	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4242	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4243	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4244	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4245	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4246	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4247	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4248	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4249	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4250	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4251	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4252	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4253	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4254	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4255	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4256	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4257	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4258	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4259	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4260	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4261	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4262	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4263	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4264	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4265	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4266	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4267	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4268	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4269	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4270	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4271	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4272	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4273	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4274	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4275	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4276	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4277	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4278	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4279	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4280	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4281	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4282	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4283	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4284	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4285	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4286	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4287	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4288	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4289	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4290	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4291	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4292	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4293	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4294	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4295	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4296	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4297	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4298	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4299	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4300	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4301	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4302	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4303	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4304	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4305	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4306	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4307	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4308	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4309	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4310	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4311	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4312	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4313	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4314	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4315	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4316	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4317	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4318	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4319	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4320	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4321	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4322	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

4323	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4324	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4325	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4326	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4327	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4328	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4329	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4330	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4331	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4332	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4333	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4334	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4335	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4336	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4337	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4338	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4339	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4340	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4341	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4342	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4343	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4344	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4345	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4346	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4347	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4348	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4349	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4350	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4351	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4352	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4353	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4354	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4355	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4356	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4357	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4358	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4359	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4360	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4361	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4362	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4363	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4364	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4365	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4366	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4367	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4368	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4369	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4370	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4371	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4372	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4373	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4374	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4375	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4376	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4377	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4378	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4379	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4380	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4381	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4382	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4383	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4384	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4385	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4386	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4387	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4388	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4389	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4390	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4391	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4392	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4393	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4394	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4395	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4396	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4397	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4398	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4399	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4400	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4401	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4402	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4403	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4404	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4405	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4406	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4407	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4408	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4409	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4410	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4411	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4412	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4413	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4414	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4415	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4416	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4417	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4418	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4419	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4420	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4421	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4422	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4423	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4424	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4425	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

4426	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4427	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4428	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4429	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4430	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4431	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4432	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4433	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4434	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4435	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4436	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4437	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4438	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4439	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4440	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4441	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4442	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4443	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4444	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4445	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4446	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4447	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4448	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4449	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4450	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4451	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4452	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4453	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4454	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4455	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4456	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4457	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4458	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4459	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4460	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4461	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4462	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4463	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4464	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4465	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4466	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4467	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4468	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4469	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4470	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4471	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4472	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4473	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4474	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4475	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4476	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4477	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4478	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4479	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4480	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4481	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4482	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4483	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4484	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4485	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4486	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4487	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4488	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4489	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4490	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4491	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4492	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4493	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4494	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4495	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4496	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4497	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4498	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4499	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4500	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4501	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4502	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4503	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4504	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4505	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4506	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4507	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4508	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4509	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4510	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4511	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4512	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4513	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4514	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4515	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4516	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4517	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4518	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4519	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4520	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4521	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4522	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4523	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4524	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4525	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4526	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4527	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4528	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

4529	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4530	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4531	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4532	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4533	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4534	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4535	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4536	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4537	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4538	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4539	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4540	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4541	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4542	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4543	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4544	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4545	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4546	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4547	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4548	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4549	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4550	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4551	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4552	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4553	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4554	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4555	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4556	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4557	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4558	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4559	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4560	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4561	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4562	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4563	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4564	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4565	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4566	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4567	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4568	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4569	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4570	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4571	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4572	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4573	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4574	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4575	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4576	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4577	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4578	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4579	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4580	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4581	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4582	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4583	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4584	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4585	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4586	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4587	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4588	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4589	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4590	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4591	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4592	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4593	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4594	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4595	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4596	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4597	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4598	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4599	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4600	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4601	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4602	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4603	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4604	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4605	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4606	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4607	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4608	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4609	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4610	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4611	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4612	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4613	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4614	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4615	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4616	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4617	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4618	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4619	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4620	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4621	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4622	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4623	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4624	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4625	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4626	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4627	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4628	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4629	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4630	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4631	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

4632	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4633	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4634	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4635	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4636	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4637	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4638	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4639	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4640	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4641	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4642	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4643	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4644	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4645	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4646	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4647	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4648	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4649	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4650	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4651	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4652	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4653	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4654	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4655	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4656	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4657	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4658	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4659	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4660	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4661	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4662	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4663	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4664	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4665	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4666	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4667	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4668	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4669	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4670	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4671	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4672	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4673	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4674	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4675	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4676	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4677	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4678	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4679	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4680	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4681	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4682	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4683	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4684	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4685	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4686	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4687	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4688	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4689	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4690	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4691	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4692	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4693	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4694	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4695	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4696	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4697	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4698	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4699	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4700	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4701	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4702	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4703	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4704	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4705	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4706	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4707	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4708	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4709	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4710	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4711	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4712	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4713	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4714	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4715	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4716	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4717	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4718	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4719	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4720	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4721	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4722	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4723	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4724	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4725	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4726	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4727	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4728	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4729	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4730	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4731	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4732	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4733	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4734	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

4735	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4736	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4737	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4738	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4739	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4740	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4741	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4742	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4743	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4744	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4745	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4746	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4747	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4748	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4749	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4750	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4751	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4752	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4753	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4754	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4755	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4756	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4757	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4758	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4759	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4760	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4761	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4762	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4763	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4764	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4765	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4766	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4767	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4768	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4769	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4770	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4771	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4772	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4773	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4774	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4775	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4776	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4777	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4778	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4779	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4780	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4781	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4782	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4783	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4784	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4785	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4786	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4787	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4788	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4789	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4790	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4791	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4792	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4793	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4794	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4795	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4796	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4797	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4798	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4799	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4800	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4801	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4802	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4803	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4804	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4805	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4806	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4807	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4808	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4809	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4810	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4811	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4812	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4813	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4814	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4815	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4816	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4817	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4818	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4819	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4820	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4821	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4822	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4823	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4824	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4825	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4826	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4827	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4828	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4829	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4830	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4831	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4832	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4833	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4834	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4835	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4836	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4837	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

4838	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4839	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4840	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4841	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4842	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4843	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4844	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4845	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4846	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4847	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4848	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4849	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4850	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4851	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4852	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4853	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4854	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4855	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4856	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4857	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4858	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4859	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4860	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4861	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4862	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4863	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4864	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4865	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4866	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4867	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4868	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4869	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4870	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4871	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4872	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4873	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4874	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4875	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4876	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4877	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4878	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4879	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4880	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4881	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4882	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4883	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4884	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4885	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4886	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4887	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4888	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4889	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4890	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4891	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4892	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4893	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4894	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4895	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4896	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4897	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4898	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4899	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4900	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4901	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4902	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4903	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4904	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4905	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4906	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4907	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4908	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4909	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4910	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4911	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4912	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4913	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4914	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4915	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4916	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4917	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4918	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4919	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4920	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4921	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4922	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4923	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4924	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4925	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4926	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4927	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4928	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4929	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4930	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4931	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4932	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4933	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4934	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4935	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4936	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4937	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4938	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4939	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4940	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

4941	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4942	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4943	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4944	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4945	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4946	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4947	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4948	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4949	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4950	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4951	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4952	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4953	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4954	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4955	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4956	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4957	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4958	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4959	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4960	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4961	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4962	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4963	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4964	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4965	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4966	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4967	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4968	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4969	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4970	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4971	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4972	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4973	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4974	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4975	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4976	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4977	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4978	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4979	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4980	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4981	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4982	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4983	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4984	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4985	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4986	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4987	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4988	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4989	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4990	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4991	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4992	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4993	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4994	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4995	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4996	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4997	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4998	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4999	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5000	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5001	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5002	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5003	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5004	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5005	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5006	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5007	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5008	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5009	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5010	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5011	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5012	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5013	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5014	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5015	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5016	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5017	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5018	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5019	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5020	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5021	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5022	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5023	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5024	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5025	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5026	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5027	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5028	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5029	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5030	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5031	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5032	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5033	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5034	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5035	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5036	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5037	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5038	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5039	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5040	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5041	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5042	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5043	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5044	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5045	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5046	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5047	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5048	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5049	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5050	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5051	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5052	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5053	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5054	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5055	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5056	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5057	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5058	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5059	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5060	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5061	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5062	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5063	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5064	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5065	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5066	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5067	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5068	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5069	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5070	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5071	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5072	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5073	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5074	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5075	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5076	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5077	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5078	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5079	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5080	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5081	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5082	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5083	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5084	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5085	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5086	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5087	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5088	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5089	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5090	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5091	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5092	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5093	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5094	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5095	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5096	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5097	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5098	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5099	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5100	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5101	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5102	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5103	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5104	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5105	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5106	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5107	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5108	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5109	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5110	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5111	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5112	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5113	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5114	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5115	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5116	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5117	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5118	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5119	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5120	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5121	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5122	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5123	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5124	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5125	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5126	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5127	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5128	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5129	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5130	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5131	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5132	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5133	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5134	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5135	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5136	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5137	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5138	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5139	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5140	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5141	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5142	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5143	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5144	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5145	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5146	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5147	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5148	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5149	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5150	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5151	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5152	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5153	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5154	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5155	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5156	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5157	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5158	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5159	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5160	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5161	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5162	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5163	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5164	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5165	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5166	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5167	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5168	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5169	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5170	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5171	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5172	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5173	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5174	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5175	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5176	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5177	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5178	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5179	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5180	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5181	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5182	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5183	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5184	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5185	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5186	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5187	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5188	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5189	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5190	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5191	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5192	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5193	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5194	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5195	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5196	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5197	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5198	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5199	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5200	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5201	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5202	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5203	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5204	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5205	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5206	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5207	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5208	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5209	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5210	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5211	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5212	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5213	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5214	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5215	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5216	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5217	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5218	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5219	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5220	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5221	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5222	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5223	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5224	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5225	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5226	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5227	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5228	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5229	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5230	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5231	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5232	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5233	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5234	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5235	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5236	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5237	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5238	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5239	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5240	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5241	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5242	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5243	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5244	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5245	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5246	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5247	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5248	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5249	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5250	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5251	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5252	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5253	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5254	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5255	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5256	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5257	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5258	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5259	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5260	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5261	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5262	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5263	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5264	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5265	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5266	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5267	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5268	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5269	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5270	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5271	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5272	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5273	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5274	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5275	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5276	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5277	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5278	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5279	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5280	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5281	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5282	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5283	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5284	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5285	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5286	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5287	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5288	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5289	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5290	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5291	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5292	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5293	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5294	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5295	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5296	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5297	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5298	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5299	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5300	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5301	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5302	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5303	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5304	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5305	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5306	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5307	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5308	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5309	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5310	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5311	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5312	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5313	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5314	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5315	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5316	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5317	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5318	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5319	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5320	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5321	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5322	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5323	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5324	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5325	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5326	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5327	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5328	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5329	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5330	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5331	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5332	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5333	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5334	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5335	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5336	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5337	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5338	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5339	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5340	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5341	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5342	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5343	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5344	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5345	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5346	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5347	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5348	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5349	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5350	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5351	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5352	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5353	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5354	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5355	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5356	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5357	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5358	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5359	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5360	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5361	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5362	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5363	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5364	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5365	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5366	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5367	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5368	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5369	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5370	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5371	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5372	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5373	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5374	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5375	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5376	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5377	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5378	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5379	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5380	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5381	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5382	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5383	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5384	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5385	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5386	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5387	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5388	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5389	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5390	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5391	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5392	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5393	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5394	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5395	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5396	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5397	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5398	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5399	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5400	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5401	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5402	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5403	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5404	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5405	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5406	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5407	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5408	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5409	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5410	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5411	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5412	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5413	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5414	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5415	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5416	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5417	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5418	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5419	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5420	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5421	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5422	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5423	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5424	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5425	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5426	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5427	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5428	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5429	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5430	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5431	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5432	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5433	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5434	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5435	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5436	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5437	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5438	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5439	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5440	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5441	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5442	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5443	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5444	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5445	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5446	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5447	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5448	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5449	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5450	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5451	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5452	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5453	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5454	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5455	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5456	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5457	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5458	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5459	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5460	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5461	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5462	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5463	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5464	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5465	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5466	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5467	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5468	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5469	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5470	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5471	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5472	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5473	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5474	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5475	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5476	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5477	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5478	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5479	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5480	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5481	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5482	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5483	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5484	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5485	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5486	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5487	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5488	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5489	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5490	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5491	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5492	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5493	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5494	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5495	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5496	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5497	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5498	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5499	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5500	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5501	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5502	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5503	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5504	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5505	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5506	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5507	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5508	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5509	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5510	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5511	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5512	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5513	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5514	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5515	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5516	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5517	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5518	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5519	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5520	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5521	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5522	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5523	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5524	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5525	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5526	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5527	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5528	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5529	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5530	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5531	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5532	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5533	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5534	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5535	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5536	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5537	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5538	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5539	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5540	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5541	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5542	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5543	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5544	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5545	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5546	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5547	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5548	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5549	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5550	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5551	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5552	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5553	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5554	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5555	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5556	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5557	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5558	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5559	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5560	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5561	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5562	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5563	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5564	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5565	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5566	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5567	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5568	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5569	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5570	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5571	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5572	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5573	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5574	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5575	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5576	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5577	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5578	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5579	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5580	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5581	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5582	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5583	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5584	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5585	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5586	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5587	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5588	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5589	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5590	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5591	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5592	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5593	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5594	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5595	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5596	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5597	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5598	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5599	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5600	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5601	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5602	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5603	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5604	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5605	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5606	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5607	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5608	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5609	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5610	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5611	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5612	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5613	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5614	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5615	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5616	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5617	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5618	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5619	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5620	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5621	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5622	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5623	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5624	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5625	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5626	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5627	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5628	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5629	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5630	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5631	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5632	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5633	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5634	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5635	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5636	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5637	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5638	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5639	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5640	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5641	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5642	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5643	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5644	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5645	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5646	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5647	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5648	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5649	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5650	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5651	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5652	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5653	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5654	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5655	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5656	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5657	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5658	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5659	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5660	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5661	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5662	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5663	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5664	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5665	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5666	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5667	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5668	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5669	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5670	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5671	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5672	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5673	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5674	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5675	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5676	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5677	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5678	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5679	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5680	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5681	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5682	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5683	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5684	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5685	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5686	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5687	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5688	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5689	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5690	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5691	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5692	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5693	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5694	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5695	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5696	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5697	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5698	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5699	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5700	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5701	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5702	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5703	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5704	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5705	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5706	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5707	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5708	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5709	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5710	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5711	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5712	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5713	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5714	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5715	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5716	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5717	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5718	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5719	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5720	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5721	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5722	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5723	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5724	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5725	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5726	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5727	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5728	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5729	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5730	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5731	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5732	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5733	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5734	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5735	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5736	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5737	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5738	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5739	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5740	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5741	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5742	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5743	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5744	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5745	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5746	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5747	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5748	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5749	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5750	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5751	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5752	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5753	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5754	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5755	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5756	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5757	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5758	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5759	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5760	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5761	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5762	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5763	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5764	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5765	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5766	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5767	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5768	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5769	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5770	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5771	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5772	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5773	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5774	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5775	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5776	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5777	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5778	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5779	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5780	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5781	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5782	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5783	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5784	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5785	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5786	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5787	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5788	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5789	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5790	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5791	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5792	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5793	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5794	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5795	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5796	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5797	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5798	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5799	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5800	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5801	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5802	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5803	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5804	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5805	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5806	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5807	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5808	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5809	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5810	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5811	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5812	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5813	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5814	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5815	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5816	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5817	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5818	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5819	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5820	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5821	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5822	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5823	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5824	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5825	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5826	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5827	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5828	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5829	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5830	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5831	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5832	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5833	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5834	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5835	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5836	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5837	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5838	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5839	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5840	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5841	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5842	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5843	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5844	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5845	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5846	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5847	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5848	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5849	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5850	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5851	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5852	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5853	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5854	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5855	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5856	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5857	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5858	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5859	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5860	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5861	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5862	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5863	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5864	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5865	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5866	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5867	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5868	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5869	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5870	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5871	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5872	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5873	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5874	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5875	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5876	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5877	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5878	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5879	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5880	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5881	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5882	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5883	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5884	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5885	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5886	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5887	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5888	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5889	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5890	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5891	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5892	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5893	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5894	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5895	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5896	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5897	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5898	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5899	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5900	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5901	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5902	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5903	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5904	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5905	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5906	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5907	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5908	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5909	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5910	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5911	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5912	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5913	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5914	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5915	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5916	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5917	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5918	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5919	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5920	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5921	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5922	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5923	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5924	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5925	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5926	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5927	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5928	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5929	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5930	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5931	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5932	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5933	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5934	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5935	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5936	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5937	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5938	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5939	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5940	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5941	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5942	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5943	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5944	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5945	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5946	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5947	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5948	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5949	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5950	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5951	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5952	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5953	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5954	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5955	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5956	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5957	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5958	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5959	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5960	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5961	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5962	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5963	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5964	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5965	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5966	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5967	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5968	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5969	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5970	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5971	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5972	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5973	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5974	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5975	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5976	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5977	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5978	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5979	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5980	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5981	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5982	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5983	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5984	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5985	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5986	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5987	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5988	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5989	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5990	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5991	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5992	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5993	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5994	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5995	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5996	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5997	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5998	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5999	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6000	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6001	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6002	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6003	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6004	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6005	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6006	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6007	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6008	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6009	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6010	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6011	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6012	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6013	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6014	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6015	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6016	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6017	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6018	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6019	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6020	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6021	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6022	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6023	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6024	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6025	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6026	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6027	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6028	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6029	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6030	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6031	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6032	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6033	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6034	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6035	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6036	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6037	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6038	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6039	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6040	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6041	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6042	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6043	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6044	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6045	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6046	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6047	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6048	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6049	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6050	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6051	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6052	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6053	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6054	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6055	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6056	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6057	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6058	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6059	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6060	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6061	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6062	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6063	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6064	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6065	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6066	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6067	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6068	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6069	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6070	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6071	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6072	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6073	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

6074	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6075	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6076	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6077	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6078	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6079	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6080	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6081	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6082	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6083	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6084	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6085	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6086	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6087	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6088	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6089	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6090	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6091	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6092	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6093	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6094	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6095	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6096	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6097	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6098	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6099	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6100	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6101	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6102	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6103	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6104	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6105	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6106	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6107	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6108	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6109	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6110	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6111	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6112	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6113	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6114	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6115	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6116	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6117	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6118	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6119	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6120	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6121	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6122	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6123	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6124	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6125	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6126	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6127	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6128	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6129	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6130	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6131	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6132	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6133	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6134	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6135	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6136	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6137	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6138	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6139	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6140	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6141	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6142	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6143	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6144	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6145	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6146	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6147	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6148	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6149	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6150	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6151	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6152	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6153	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6154	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6155	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6156	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6157	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6158	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6159	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6160	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6161	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6162	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6163	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6164	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6165	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6166	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6167	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6168	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6169	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6170	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6171	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6172	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6173	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6174	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6175	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6176	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

6177	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6178	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6179	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6180	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6181	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6182	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6183	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6184	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6185	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6186	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6187	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6188	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6189	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6190	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6191	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6192	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6193	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6194	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6195	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6196	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6197	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6198	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6199	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6200	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6201	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6202	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6203	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6204	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6205	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6206	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6207	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6208	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6209	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6210	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6211	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6212	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6213	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6214	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6215	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6216	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6217	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6218	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6219	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6220	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6221	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6222	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6223	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6224	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6225	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6226	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6227	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6228	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6229	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6230	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6231	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6232	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6233	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6234	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6235	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6236	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6237	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6238	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6239	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6240	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6241	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6242	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6243	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6244	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6245	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6246	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6247	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6248	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6249	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6250	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6251	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6252	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6253	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6254	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6255	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6256	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6257	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6258	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6259	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6260	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6261	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6262	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6263	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6264	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6265	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6266	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6267	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6268	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6269	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6270	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6271	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6272	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6273	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6274	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6275	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6276	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6277	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6278	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6279	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

6280	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6281	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6282	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6283	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6284	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6285	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6286	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6287	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6288	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6289	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6290	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6291	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6292	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6293	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6294	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6295	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6296	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6297	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6298	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6299	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6300	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6301	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6302	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6303	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6304	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6305	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6306	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6307	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6308	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

			7	258385.11	4084970.84
	Max Yr	**2**	UnMitigated	T2L3	T4
	Row	**33**	5.06E-02	7.71E-03	4.17E-03
		Col	**3**	**4**	**5**
		Adjustment	**100%**	**15%**	**8%**
			Year 2	Year 2	Year 2
1	258389.5	4085119	1.73E-02	2.63E-03	1.42E-03
2	258388.7	4085095	2.75E-02	4.19E-03	2.27E-03
3	258388	4085070	3.82E-02	5.81E-03	3.15E-03
4	258387.3	4085045	4.49E-02	6.84E-03	3.70E-03
5	258386.6	4085020	4.88E-02	7.43E-03	4.02E-03
6	258385.8	4084996	5.06E-02	7.71E-03	4.17E-03
7	258385.1	4084971	5.06E-02	7.71E-03	4.17E-03
8	258384.4	4084946	4.86E-02	7.40E-03	4.00E-03
9	258383.7	4084921	4.19E-02	6.38E-03	3.45E-03
10	258407.8	4085136	1.06E-02	1.62E-03	8.76E-04
11	258383.9	4085162	1.03E-02	1.56E-03	8.46E-04
12	258413.7	4085094	1.70E-02	2.58E-03	1.40E-03
13	258413	4085069	2.28E-02	3.47E-03	1.88E-03
14	258412.3	4085044	2.77E-02	4.22E-03	2.28E-03
15	258411.6	4085020	3.12E-02	4.76E-03	2.57E-03
16	258410.8	4084995	3.33E-02	5.08E-03	2.75E-03
17	258410.1	4084970	3.42E-02	5.20E-03	2.82E-03
18	258409.4	4084945	3.35E-02	5.10E-03	2.76E-03
19	258408.7	4084921	3.11E-02	4.73E-03	2.56E-03
20	258432.8	4085136	8.37E-03	1.28E-03	6.90E-04
21	258402.2	4085179	7.38E-03	1.12E-03	6.08E-04
22	258438.7	4085093	1.20E-02	1.83E-03	9.91E-04
23	258438	4085068	1.54E-02	2.35E-03	1.27E-03
24	258437.3	4085044	1.89E-02	2.87E-03	1.55E-03
25	258436.5	4085019	2.17E-02	3.30E-03	1.79E-03
26	258435.8	4084994	2.37E-02	3.61E-03	1.95E-03
27	258435.1	4084969	2.48E-02	3.78E-03	2.04E-03
28	258434.4	4084945	2.49E-02	3.80E-03	2.06E-03
29	258433.7	4084920	2.41E-02	3.67E-03	1.99E-03
30	258457.7	4085135	6.83E-03	1.04E-03	5.63E-04
31	258444.4	4085170	5.78E-03	8.80E-04	4.76E-04
32	258420.5	4085196	5.67E-03	8.64E-04	4.67E-04
33	258386.1	4085212	6.37E-03	9.70E-04	5.25E-04
34	258463.7	4085092	9.21E-03	1.40E-03	7.59E-04
35	258463	4085068	1.14E-02	1.74E-03	9.40E-04
36	258462.3	4085043	1.37E-02	2.09E-03	1.13E-03
37	258461.5	4085018	1.59E-02	2.43E-03	1.31E-03
38	258460.8	4084993	1.77E-02	2.69E-03	1.46E-03
39	258460.1	4084969	1.88E-02	2.87E-03	1.55E-03
40	258459.4	4084944	1.93E-02	2.94E-03	1.59E-03

41	258458.6	4084919	1.91E-02	2.91E-03	1.57E-03
42	258506.4	4085137	4.84E-03	7.37E-04	3.99E-04
43	258498.4	4085158	4.47E-03	6.81E-04	3.68E-04
44	258490.4	4085180	4.13E-03	6.29E-04	3.41E-04
45	258482.4	4085201	3.83E-03	5.84E-04	3.16E-04
46	258453.7	4085232	3.77E-03	5.75E-04	3.11E-04
47	258433.1	4085241	3.99E-03	6.09E-04	3.29E-04
48	258412.4	4085251	4.22E-03	6.43E-04	3.48E-04
49	258391.8	4085260	4.45E-03	6.77E-04	3.66E-04
50	258514.4	4085116	5.23E-03	7.96E-04	4.31E-04
51	258513.7	4085091	6.12E-03	9.32E-04	5.05E-04
52	258513	4085066	7.19E-03	1.10E-03	5.93E-04
53	258512.2	4085041	8.40E-03	1.28E-03	6.92E-04
54	258511.5	4085017	9.64E-03	1.47E-03	7.95E-04
55	258510.8	4084992	1.08E-02	1.64E-03	8.90E-04
56	258510.1	4084967	1.18E-02	1.79E-03	9.69E-04
57	258509.3	4084942	1.24E-02	1.90E-03	1.03E-03
58	258508.6	4084918	1.28E-02	1.95E-03	1.05E-03
59	258556.8	4085135	3.71E-03	5.65E-04	3.05E-04
60	258541.5	4085175	3.28E-03	5.00E-04	2.70E-04
61	258526.2	4085216	2.90E-03	4.42E-04	2.39E-04
62	258491.3	4085265	2.71E-03	4.12E-04	2.23E-04
63	258452	4085284	2.96E-03	4.52E-04	2.44E-04
64	258412.6	4085302	3.23E-03	4.92E-04	2.66E-04
65	258563.7	4085090	4.45E-03	6.79E-04	3.67E-04
66	258562.9	4085065	5.07E-03	7.72E-04	4.18E-04
67	258562.2	4085040	5.76E-03	8.78E-04	4.75E-04
68	258561.5	4085015	6.50E-03	9.91E-04	5.36E-04
69	258560.8	4084990	7.25E-03	1.10E-03	5.97E-04
70	258560	4084966	7.94E-03	1.21E-03	6.55E-04
71	258559.3	4084941	8.54E-03	1.30E-03	7.04E-04
72	258558.6	4084916	8.97E-03	1.37E-03	7.40E-04
73	258606	4085135	2.93E-03	4.46E-04	2.41E-04
74	258597.7	4085157	2.77E-03	4.22E-04	2.28E-04
75	258589.3	4085179	2.62E-03	3.99E-04	2.16E-04
76	258581	4085202	2.47E-03	3.76E-04	2.04E-04
77	258572.6	4085224	2.33E-03	3.55E-04	1.92E-04
78	258564.3	4085246	2.20E-03	3.36E-04	1.82E-04
79	258556	4085268	2.08E-03	3.18E-04	1.72E-04
80	258526.1	4085300	2.06E-03	3.14E-04	1.70E-04
81	258504.6	4085310	2.15E-03	3.28E-04	1.78E-04
82	258483.1	4085320	2.25E-03	3.43E-04	1.86E-04
83	258461.6	4085330	2.35E-03	3.58E-04	1.94E-04
84	258440.1	4085340	2.44E-03	3.72E-04	2.02E-04
85	258418.5	4085350	2.54E-03	3.87E-04	2.09E-04
86	258397	4085360	2.64E-03	4.02E-04	2.17E-04
87	258614.4	4085113	3.08E-03	4.69E-04	2.54E-04

88	258613.6	4085088	3.42E-03	5.21E-04	2.82E-04
89	258612.9	4085063	3.81E-03	5.80E-04	3.14E-04
90	258612.2	4085039	4.24E-03	6.46E-04	3.50E-04
91	258611.5	4085014	4.71E-03	7.18E-04	3.89E-04
92	258610.7	4084989	5.20E-03	7.93E-04	4.29E-04
93	258610	4084964	5.69E-03	8.67E-04	4.69E-04
94	258609.3	4084940	6.15E-03	9.37E-04	5.07E-04
95	258608.6	4084915	6.54E-03	9.97E-04	5.39E-04
96	258656.3	4085133	2.39E-03	3.64E-04	1.97E-04
97	258648.3	4085154	2.29E-03	3.49E-04	1.89E-04
98	258640.3	4085175	2.19E-03	3.33E-04	1.80E-04
99	258632.3	4085197	2.08E-03	3.18E-04	1.72E-04
100	258624.3	4085218	1.99E-03	3.02E-04	1.64E-04
101	258616.3	4085239	1.89E-03	2.88E-04	1.56E-04
102	258608.3	4085260	1.80E-03	2.74E-04	1.49E-04
103	258600.3	4085282	1.72E-03	2.62E-04	1.42E-04
104	258592.3	4085303	1.64E-03	2.50E-04	1.35E-04
105	258563.6	4085334	1.63E-03	2.48E-04	1.34E-04
106	258542.9	4085343	1.69E-03	2.57E-04	1.39E-04
107	258522.3	4085353	1.75E-03	2.67E-04	1.44E-04
108	258501.6	4085363	1.82E-03	2.77E-04	1.50E-04
109	258481	4085372	1.89E-03	2.88E-04	1.56E-04
110	258460.3	4085382	1.95E-03	2.97E-04	1.61E-04
111	258439.7	4085391	2.01E-03	3.07E-04	1.66E-04
112	258419	4085401	2.08E-03	3.17E-04	1.71E-04
113	258398.4	4085410	2.15E-03	3.27E-04	1.77E-04
114	258664.3	4085111	2.49E-03	3.80E-04	2.05E-04
115	258663.6	4085087	2.72E-03	4.15E-04	2.25E-04
116	258662.9	4085062	2.99E-03	4.55E-04	2.46E-04
117	258662.2	4085037	3.28E-03	4.99E-04	2.70E-04
118	258661.4	4085012	3.59E-03	5.47E-04	2.96E-04
119	258660.7	4084988	3.93E-03	5.99E-04	3.24E-04
120	258660	4084963	4.27E-03	6.51E-04	3.52E-04
121	258659.3	4084938	4.62E-03	7.03E-04	3.81E-04
122	258658.6	4084913	4.93E-03	7.52E-04	4.07E-04
123	258756.1	4085130	1.69E-03	2.57E-04	1.39E-04
124	258747.9	4085152	1.63E-03	2.49E-04	1.35E-04
125	258739.6	4085174	1.58E-03	2.40E-04	1.30E-04
126	258731.4	4085196	1.52E-03	2.32E-04	1.25E-04
127	258723.2	4085218	1.46E-03	2.23E-04	1.21E-04
128	258715	4085239	1.41E-03	2.14E-04	1.16E-04
129	258706.8	4085261	1.35E-03	2.06E-04	1.11E-04
130	258698.6	4085283	1.30E-03	1.98E-04	1.07E-04
131	258690.4	4085305	1.25E-03	1.90E-04	1.03E-04
132	258682.1	4085327	1.20E-03	1.82E-04	9.86E-05
133	258673.9	4085349	1.15E-03	1.76E-04	9.51E-05
134	258665.7	4085371	1.11E-03	1.69E-04	9.16E-05

135	258636.3	4085402	1.11E-03	1.68E-04	9.11E-05
136	258615.1	4085412	1.14E-03	1.73E-04	9.38E-05
137	258594	4085422	1.17E-03	1.79E-04	9.67E-05
138	258572.8	4085432	1.21E-03	1.85E-04	9.99E-05
139	258551.6	4085441	1.25E-03	1.91E-04	1.03E-04
140	258530.4	4085451	1.29E-03	1.97E-04	1.07E-04
141	258509.2	4085461	1.33E-03	2.03E-04	1.10E-04
142	258488.1	4085471	1.37E-03	2.08E-04	1.13E-04
143	258466.9	4085481	1.40E-03	2.14E-04	1.16E-04
144	258445.7	4085490	1.44E-03	2.19E-04	1.19E-04
145	258424.5	4085500	1.48E-03	2.25E-04	1.22E-04
146	258403.3	4085510	1.52E-03	2.31E-04	1.25E-04
147	258764.3	4085108	1.74E-03	2.66E-04	1.44E-04
148	258763.6	4085084	1.87E-03	2.84E-04	1.54E-04
149	258762.8	4085059	2.00E-03	3.05E-04	1.65E-04
150	258762.1	4085034	2.15E-03	3.28E-04	1.78E-04
151	258761.4	4085009	2.32E-03	3.53E-04	1.91E-04
152	258760.7	4084985	2.49E-03	3.79E-04	2.05E-04
153	258760	4084960	2.68E-03	4.08E-04	2.21E-04
154	258759.2	4084935	2.87E-03	4.37E-04	2.37E-04
155	258758.5	4084910	3.06E-03	4.67E-04	2.53E-04
156	258855.9	4085128	1.27E-03	1.94E-04	1.05E-04
157	258847.6	4085150	1.24E-03	1.89E-04	1.02E-04
158	258839.2	4085172	1.20E-03	1.83E-04	9.92E-05
159	258830.9	4085194	1.17E-03	1.78E-04	9.62E-05
160	258822.5	4085216	1.13E-03	1.72E-04	9.32E-05
161	258814.2	4085239	1.09E-03	1.67E-04	9.02E-05
162	258805.8	4085261	1.06E-03	1.61E-04	8.73E-05
163	258797.5	4085283	1.03E-03	1.56E-04	8.45E-05
164	258789.2	4085305	9.91E-04	1.51E-04	8.17E-05
165	258780.8	4085327	9.53E-04	1.45E-04	7.86E-05
166	258772.5	4085350	9.21E-04	1.40E-04	7.59E-05
167	258764.1	4085372	8.91E-04	1.36E-04	7.35E-05
168	258755.8	4085394	8.63E-04	1.31E-04	7.12E-05
169	258747.4	4085416	8.37E-04	1.27E-04	6.90E-05
170	258739.1	4085438	8.12E-04	1.24E-04	6.69E-05
171	258709.2	4085470	8.07E-04	1.23E-04	6.65E-05
172	258687.7	4085480	8.25E-04	1.26E-04	6.80E-05
173	258666.2	4085490	8.46E-04	1.29E-04	6.97E-05
174	258644.7	4085500	8.68E-04	1.32E-04	7.16E-05
175	258623.2	4085510	8.94E-04	1.36E-04	7.37E-05
176	258601.7	4085520	9.22E-04	1.40E-04	7.60E-05
177	258580.2	4085530	9.50E-04	1.45E-04	7.83E-05
178	258558.7	4085540	9.79E-04	1.49E-04	8.07E-05
179	258537.2	4085550	1.01E-03	1.53E-04	8.29E-05
180	258515.7	4085560	1.03E-03	1.57E-04	8.47E-05
181	258494.1	4085570	1.05E-03	1.60E-04	8.65E-05

182	258472.6	4085580	1.07E-03	1.63E-04	8.83E-05
183	258451.1	4085590	1.10E-03	1.67E-04	9.03E-05
184	258429.6	4085600	1.12E-03	1.71E-04	9.25E-05
185	258408.1	4085610	1.15E-03	1.75E-04	9.48E-05
186	258864.3	4085106	1.30E-03	1.99E-04	1.07E-04
187	258863.5	4085081	1.38E-03	2.10E-04	1.13E-04
188	258862.8	4085056	1.46E-03	2.22E-04	1.20E-04
189	258862.1	4085031	1.54E-03	2.35E-04	1.27E-04
190	258861.4	4085007	1.64E-03	2.50E-04	1.35E-04
191	258860.6	4084982	1.74E-03	2.65E-04	1.43E-04
192	258859.9	4084957	1.85E-03	2.82E-04	1.53E-04
193	258859.2	4084932	1.97E-03	3.00E-04	1.62E-04
194	258858.5	4084907	2.09E-03	3.18E-04	1.72E-04
195	258955.8	4085125	1.00E-03	1.53E-04	8.26E-05
196	258947.3	4085147	9.81E-04	1.49E-04	8.08E-05
197	258938.9	4085170	9.58E-04	1.46E-04	7.89E-05
198	258930.5	4085192	9.33E-04	1.42E-04	7.69E-05
199	258922.1	4085215	9.08E-04	1.38E-04	7.49E-05
200	258913.6	4085237	8.83E-04	1.34E-04	7.28E-05
201	258905.2	4085260	8.58E-04	1.31E-04	7.07E-05
202	258896.8	4085282	8.32E-04	1.27E-04	6.85E-05
203	258888.3	4085304	8.06E-04	1.23E-04	6.64E-05
204	258879.9	4085327	7.84E-04	1.19E-04	6.46E-05
205	258871.5	4085349	7.63E-04	1.16E-04	6.29E-05
206	258863	4085372	7.42E-04	1.13E-04	6.11E-05
207	258854.6	4085394	7.21E-04	1.10E-04	5.94E-05
208	258846.2	4085416	7.01E-04	1.07E-04	5.78E-05
209	258837.7	4085439	6.82E-04	1.04E-04	5.62E-05
210	258829.3	4085461	6.63E-04	1.01E-04	5.47E-05
211	258820.9	4085484	6.46E-04	9.84E-05	5.33E-05
212	258812.4	4085506	6.30E-04	9.60E-05	5.19E-05
213	258782.3	4085539	6.27E-04	9.54E-05	5.16E-05
214	258760.5	4085549	6.39E-04	9.73E-05	5.26E-05
215	258738.8	4085559	6.51E-04	9.92E-05	5.37E-05
216	258717.1	4085569	6.65E-04	1.01E-04	5.49E-05
217	258695.3	4085579	6.81E-04	1.04E-04	5.62E-05
218	258673.6	4085589	6.99E-04	1.06E-04	5.76E-05
219	258651.9	4085599	7.18E-04	1.09E-04	5.92E-05
220	258630.1	4085609	7.38E-04	1.12E-04	6.08E-05
221	258608.4	4085619	7.57E-04	1.15E-04	6.24E-05
222	258586.6	4085629	7.75E-04	1.18E-04	6.39E-05
223	258564.9	4085639	7.93E-04	1.21E-04	6.53E-05
224	258543.2	4085649	8.08E-04	1.23E-04	6.66E-05
225	258521.4	4085659	8.20E-04	1.25E-04	6.76E-05
226	258499.7	4085669	8.38E-04	1.28E-04	6.91E-05
227	258478	4085679	8.54E-04	1.30E-04	7.04E-05
228	258456.2	4085689	8.70E-04	1.33E-04	7.17E-05

229	258434.5	4085699	8.90E-04	1.36E-04	7.34E-05
230	258412.8	4085709	9.10E-04	1.39E-04	7.50E-05
231	258964.2	4085103	1.02E-03	1.56E-04	8.42E-05
232	258963.5	4085078	1.07E-03	1.63E-04	8.80E-05
233	258962.8	4085053	1.12E-03	1.70E-04	9.22E-05
234	258962	4085028	1.17E-03	1.79E-04	9.68E-05
235	258961.3	4085004	1.23E-03	1.88E-04	1.02E-04
236	258960.6	4084979	1.30E-03	1.98E-04	1.07E-04
237	258959.9	4084954	1.37E-03	2.09E-04	1.13E-04
238	258959.2	4084929	1.45E-03	2.20E-04	1.19E-04
239	258958.4	4084905	1.53E-03	2.32E-04	1.26E-04
240	259055.7	4085122	8.17E-04	1.24E-04	6.73E-05
241	259047.2	4085145	8.03E-04	1.22E-04	6.62E-05
242	259038.7	4085167	7.88E-04	1.20E-04	6.49E-05
243	259030.2	4085190	7.69E-04	1.17E-04	6.34E-05
244	259021.7	4085213	7.49E-04	1.14E-04	6.17E-05
245	259013.2	4085235	7.29E-04	1.11E-04	6.01E-05
246	259004.7	4085258	7.10E-04	1.08E-04	5.85E-05
247	258996.2	4085280	6.92E-04	1.05E-04	5.70E-05
248	258987.7	4085303	6.75E-04	1.03E-04	5.56E-05
249	258979.2	4085326	6.59E-04	1.00E-04	5.43E-05
250	258970.7	4085348	6.43E-04	9.80E-05	5.30E-05
251	258962.2	4085371	6.29E-04	9.58E-05	5.18E-05
252	258953.7	4085393	6.14E-04	9.36E-05	5.06E-05
253	258945.2	4085416	6.00E-04	9.14E-05	4.94E-05
254	258936.7	4085438	5.86E-04	8.92E-05	4.83E-05
255	258928.2	4085461	5.72E-04	8.71E-05	4.71E-05
256	258919.8	4085484	5.58E-04	8.50E-05	4.60E-05
257	258911.3	4085506	5.44E-04	8.29E-05	4.49E-05
258	258902.8	4085529	5.32E-04	8.10E-05	4.38E-05
259	258894.3	4085551	5.20E-04	7.92E-05	4.28E-05
260	258885.8	4085574	5.09E-04	7.75E-05	4.19E-05
261	258855.4	4085607	5.06E-04	7.71E-05	4.17E-05
262	258833.5	4085617	5.14E-04	7.84E-05	4.24E-05
263	258811.6	4085627	5.23E-04	7.97E-05	4.31E-05
264	258789.7	4085637	5.33E-04	8.12E-05	4.39E-05
265	258767.8	4085647	5.43E-04	8.27E-05	4.48E-05
266	258745.9	4085657	5.55E-04	8.45E-05	4.57E-05
267	258724	4085667	5.68E-04	8.65E-05	4.68E-05
268	258702.1	4085678	5.82E-04	8.87E-05	4.80E-05
269	258680.2	4085688	5.97E-04	9.10E-05	4.92E-05
270	258658.3	4085698	6.12E-04	9.33E-05	5.05E-05
271	258636.4	4085708	6.27E-04	9.55E-05	5.17E-05
272	258614.5	4085718	6.40E-04	9.74E-05	5.27E-05
273	258592.6	4085728	6.51E-04	9.92E-05	5.37E-05
274	258570.7	4085738	6.62E-04	1.01E-04	5.46E-05
275	258548.8	4085749	6.73E-04	1.02E-04	5.55E-05

276	258526.8	4085759	6.84E-04	1.04E-04	5.64E-05
277	258504.9	4085769	6.96E-04	1.06E-04	5.74E-05
278	258483	4085779	7.10E-04	1.08E-04	5.85E-05
279	258461.1	4085789	7.25E-04	1.10E-04	5.97E-05
280	258439.2	4085799	7.40E-04	1.13E-04	6.10E-05
281	258417.3	4085809	7.56E-04	1.15E-04	6.23E-05
282	259064.2	4085100	8.29E-04	1.26E-04	6.84E-05
283	259063.4	4085075	8.60E-04	1.31E-04	7.09E-05
284	259062.7	4085050	8.94E-04	1.36E-04	7.37E-05
285	259062	4085025	9.32E-04	1.42E-04	7.68E-05
286	259061.3	4085001	9.73E-04	1.48E-04	8.02E-05
287	259060.6	4084976	1.02E-03	1.55E-04	8.40E-05
288	259059.8	4084951	1.07E-03	1.63E-04	8.80E-05
289	259059.1	4084926	1.12E-03	1.70E-04	9.22E-05
290	259058.4	4084902	1.17E-03	1.79E-04	9.67E-05
291	259255.5	4085117	5.85E-04	8.91E-05	4.82E-05
292	259246.9	4085139	5.79E-04	8.82E-05	4.77E-05
293	259238.3	4085162	5.72E-04	8.72E-05	4.72E-05
294	259229.8	4085185	5.63E-04	8.58E-05	4.64E-05
295	259221.2	4085208	5.52E-04	8.40E-05	4.55E-05
296	259212.6	4085231	5.40E-04	8.23E-05	4.45E-05
297	259204	4085254	5.28E-04	8.05E-05	4.35E-05
298	259195.4	4085276	5.16E-04	7.86E-05	4.25E-05
299	259186.8	4085299	5.04E-04	7.68E-05	4.16E-05
300	259178.3	4085322	4.93E-04	7.51E-05	4.06E-05
301	259169.7	4085345	4.82E-04	7.35E-05	3.98E-05
302	259161.1	4085368	4.73E-04	7.20E-05	3.90E-05
303	259152.5	4085390	4.64E-04	7.07E-05	3.82E-05
304	259143.9	4085413	4.56E-04	6.94E-05	3.76E-05
305	259135.4	4085436	4.48E-04	6.83E-05	3.69E-05
306	259126.8	4085459	4.41E-04	6.71E-05	3.63E-05
307	259118.2	4085482	4.33E-04	6.60E-05	3.57E-05
308	259109.6	4085505	4.26E-04	6.49E-05	3.51E-05
309	259101	4085527	4.19E-04	6.38E-05	3.45E-05
310	259092.4	4085550	4.11E-04	6.26E-05	3.39E-05
311	259083.9	4085573	4.04E-04	6.15E-05	3.33E-05
312	259075.3	4085596	3.96E-04	6.03E-05	3.26E-05
313	259066.7	4085619	3.88E-04	5.91E-05	3.20E-05
314	259058.1	4085641	3.81E-04	5.80E-05	3.14E-05
315	259049.5	4085664	3.74E-04	5.69E-05	3.08E-05
316	259041	4085687	3.67E-04	5.59E-05	3.03E-05
317	259032.4	4085710	3.61E-04	5.50E-05	2.98E-05
318	259001.7	4085743	3.60E-04	5.48E-05	2.97E-05
319	258979.5	4085753	3.64E-04	5.55E-05	3.00E-05
320	258957.4	4085763	3.69E-04	5.63E-05	3.04E-05
321	258935.3	4085774	3.74E-04	5.70E-05	3.09E-05
322	258913.2	4085784	3.80E-04	5.79E-05	3.13E-05

323	258891	4085794	3.86E-04	5.88E-05	3.18E-05
324	258868.9	4085804	3.92E-04	5.98E-05	3.23E-05
325	258846.8	4085815	3.99E-04	6.08E-05	3.29E-05
326	258824.7	4085825	4.08E-04	6.21E-05	3.36E-05
327	258802.5	4085835	4.16E-04	6.34E-05	3.43E-05
328	258780.4	4085845	4.26E-04	6.49E-05	3.51E-05
329	258758.3	4085856	4.37E-04	6.65E-05	3.60E-05
330	258736.2	4085866	4.47E-04	6.81E-05	3.68E-05
331	258714	4085876	4.57E-04	6.96E-05	3.76E-05
332	258691.9	4085886	4.66E-04	7.10E-05	3.84E-05
333	258669.8	4085896	4.74E-04	7.22E-05	3.91E-05
334	258647.7	4085907	4.81E-04	7.33E-05	3.97E-05
335	258625.5	4085917	4.88E-04	7.43E-05	4.02E-05
336	258603.4	4085927	4.95E-04	7.54E-05	4.08E-05
337	258581.3	4085937	5.01E-04	7.64E-05	4.13E-05
338	258559.2	4085948	5.09E-04	7.75E-05	4.19E-05
339	258537	4085958	5.16E-04	7.87E-05	4.26E-05
340	258514.9	4085968	5.24E-04	7.99E-05	4.32E-05
341	258492.8	4085978	5.33E-04	8.12E-05	4.39E-05
342	258470.7	4085989	5.41E-04	8.25E-05	4.46E-05
343	258448.5	4085999	5.50E-04	8.38E-05	4.54E-05
344	258426.4	4086009	5.59E-04	8.52E-05	4.61E-05
345	259264.1	4085094	5.90E-04	8.99E-05	4.86E-05
346	259263.4	4085069	6.05E-04	9.22E-05	4.99E-05
347	259262.6	4085044	6.23E-04	9.49E-05	5.13E-05
348	259261.9	4085020	6.43E-04	9.79E-05	5.30E-05
349	259261.2	4084995	6.66E-04	1.01E-04	5.49E-05
350	259260.5	4084970	6.91E-04	1.05E-04	5.70E-05
351	259259.7	4084945	7.19E-04	1.09E-04	5.92E-05
352	259259	4084921	7.47E-04	1.14E-04	6.16E-05
353	259258.3	4084896	7.76E-04	1.18E-04	6.40E-05
354	259455.4	4085111	4.49E-04	6.84E-05	3.70E-05
355	259446.7	4085134	4.47E-04	6.81E-05	3.68E-05
356	259438.1	4085157	4.44E-04	6.76E-05	3.66E-05
357	259429.4	4085180	4.40E-04	6.71E-05	3.63E-05
358	259420.8	4085203	4.35E-04	6.63E-05	3.59E-05
359	259412.2	4085226	4.29E-04	6.53E-05	3.53E-05
360	259403.5	4085249	4.21E-04	6.42E-05	3.47E-05
361	259394.9	4085272	4.13E-04	6.29E-05	3.41E-05
362	259386.3	4085295	4.04E-04	6.16E-05	3.33E-05
363	259377.6	4085318	3.95E-04	6.02E-05	3.26E-05
364	259369	4085341	3.86E-04	5.88E-05	3.18E-05
365	259360.3	4085364	3.78E-04	5.76E-05	3.11E-05
366	259351.7	4085387	3.71E-04	5.65E-05	3.05E-05
367	259343.1	4085410	3.64E-04	5.54E-05	3.00E-05
368	259334.4	4085433	3.58E-04	5.45E-05	2.95E-05
369	259325.8	4085455	3.53E-04	5.38E-05	2.91E-05

370	259317.2	4085478	3.48E-04	5.30E-05	2.87E-05
371	259308.5	4085501	3.43E-04	5.23E-05	2.83E-05
372	259299.9	4085524	3.39E-04	5.17E-05	2.80E-05
373	259291.2	4085547	3.35E-04	5.10E-05	2.76E-05
374	259282.6	4085570	3.31E-04	5.04E-05	2.73E-05
375	259274	4085593	3.27E-04	4.98E-05	2.69E-05
376	259265.3	4085616	3.23E-04	4.92E-05	2.66E-05
377	259256.7	4085639	3.18E-04	4.85E-05	2.62E-05
378	259248.1	4085662	3.14E-04	4.78E-05	2.59E-05
379	259239.4	4085685	3.09E-04	4.71E-05	2.55E-05
380	259230.8	4085708	3.04E-04	4.63E-05	2.51E-05
381	259222.1	4085731	2.99E-04	4.56E-05	2.46E-05
382	259213.5	4085754	2.94E-04	4.48E-05	2.42E-05
383	259204.9	4085777	2.89E-04	4.41E-05	2.38E-05
384	259196.2	4085800	2.85E-04	4.34E-05	2.35E-05
385	259187.6	4085823	2.81E-04	4.28E-05	2.31E-05
386	259179	4085846	2.77E-04	4.22E-05	2.28E-05
387	259148	4085879	2.77E-04	4.21E-05	2.28E-05
388	259125.8	4085889	2.80E-04	4.26E-05	2.31E-05
389	259103.5	4085900	2.83E-04	4.31E-05	2.33E-05
390	259081.2	4085910	2.87E-04	4.37E-05	2.36E-05
391	259059	4085920	2.90E-04	4.42E-05	2.39E-05
392	259036.7	4085931	2.94E-04	4.48E-05	2.42E-05
393	259014.4	4085941	2.98E-04	4.54E-05	2.45E-05
394	258992.2	4085951	3.02E-04	4.60E-05	2.49E-05
395	258969.9	4085962	3.06E-04	4.66E-05	2.52E-05
396	258947.6	4085972	3.10E-04	4.73E-05	2.56E-05
397	258925.3	4085982	3.16E-04	4.81E-05	2.60E-05
398	258903.1	4085992	3.22E-04	4.91E-05	2.65E-05
399	258880.8	4086003	3.29E-04	5.01E-05	2.71E-05
400	258858.5	4086013	3.37E-04	5.13E-05	2.78E-05
401	258836.3	4086023	3.45E-04	5.25E-05	2.84E-05
402	258814	4086034	3.53E-04	5.37E-05	2.91E-05
403	258791.7	4086044	3.60E-04	5.49E-05	2.97E-05
404	258769.5	4086054	3.67E-04	5.59E-05	3.03E-05
405	258747.2	4086065	3.73E-04	5.69E-05	3.08E-05
406	258724.9	4086075	3.79E-04	5.77E-05	3.12E-05
407	258702.6	4086085	3.83E-04	5.84E-05	3.16E-05
408	258680.4	4086095	3.87E-04	5.90E-05	3.19E-05
409	258658.1	4086106	3.91E-04	5.96E-05	3.22E-05
410	258635.8	4086116	3.95E-04	6.01E-05	3.25E-05
411	258613.6	4086126	3.99E-04	6.07E-05	3.29E-05
412	258591.3	4086137	4.03E-04	6.13E-05	3.32E-05
413	258569	4086147	4.07E-04	6.20E-05	3.36E-05
414	258546.8	4086157	4.12E-04	6.27E-05	3.39E-05
415	258524.5	4086168	4.17E-04	6.35E-05	3.44E-05
416	258502.2	4086178	4.22E-04	6.44E-05	3.48E-05

417	258479.9	4086188	4.29E-04	6.53E-05	3.53E-05
418	258457.7	4086198	4.34E-04	6.62E-05	3.58E-05
419	258435.4	4086209	4.41E-04	6.73E-05	3.64E-05
420	259464	4085088	4.51E-04	6.87E-05	3.72E-05
421	259463.3	4085063	4.60E-04	7.00E-05	3.79E-05
422	259462.6	4085039	4.71E-04	7.17E-05	3.88E-05
423	259461.8	4085014	4.83E-04	7.36E-05	3.98E-05
424	259461.1	4084989	4.98E-04	7.59E-05	4.11E-05
425	259460.4	4084964	5.15E-04	7.84E-05	4.24E-05
426	259459.7	4084939	5.33E-04	8.12E-05	4.39E-05
427	259458.9	4084915	5.51E-04	8.40E-05	4.55E-05
428	259458.2	4084890	5.70E-04	8.68E-05	4.70E-05
429	259655.2	4085105	3.62E-04	5.52E-05	2.99E-05
430	259646.6	4085128	3.62E-04	5.51E-05	2.98E-05
431	259637.9	4085151	3.61E-04	5.50E-05	2.98E-05
432	259629.2	4085174	3.59E-04	5.47E-05	2.96E-05
433	259620.5	4085198	3.57E-04	5.44E-05	2.94E-05
434	259611.8	4085221	3.54E-04	5.39E-05	2.91E-05
435	259603.2	4085244	3.49E-04	5.32E-05	2.88E-05
436	259594.5	4085267	3.44E-04	5.24E-05	2.84E-05
437	259585.8	4085290	3.38E-04	5.15E-05	2.79E-05
438	259577.1	4085313	3.32E-04	5.05E-05	2.73E-05
439	259568.5	4085336	3.25E-04	4.95E-05	2.68E-05
440	259559.8	4085359	3.18E-04	4.85E-05	2.62E-05
441	259551.1	4085382	3.12E-04	4.75E-05	2.57E-05
442	259542.4	4085405	3.06E-04	4.66E-05	2.52E-05
443	259533.8	4085428	3.00E-04	4.58E-05	2.48E-05
444	259525.1	4085451	2.95E-04	4.50E-05	2.43E-05
445	259516.4	4085474	2.90E-04	4.42E-05	2.39E-05
446	259507.7	4085497	2.86E-04	4.36E-05	2.36E-05
447	259499	4085521	2.83E-04	4.31E-05	2.33E-05
448	259490.4	4085544	2.80E-04	4.26E-05	2.31E-05
449	259481.7	4085567	2.77E-04	4.22E-05	2.28E-05
450	259473	4085590	2.74E-04	4.18E-05	2.26E-05
451	259464.3	4085613	2.72E-04	4.14E-05	2.24E-05
452	259455.7	4085636	2.69E-04	4.10E-05	2.22E-05
453	259447	4085659	2.67E-04	4.07E-05	2.20E-05
454	259438.3	4085682	2.65E-04	4.03E-05	2.18E-05
455	259429.6	4085705	2.62E-04	3.99E-05	2.16E-05
456	259421	4085728	2.59E-04	3.95E-05	2.14E-05
457	259412.3	4085751	2.57E-04	3.91E-05	2.11E-05
458	259403.6	4085774	2.53E-04	3.86E-05	2.09E-05
459	259394.9	4085797	2.50E-04	3.81E-05	2.06E-05
460	259386.2	4085820	2.47E-04	3.76E-05	2.03E-05
461	259377.6	4085843	2.43E-04	3.70E-05	2.00E-05
462	259368.9	4085867	2.39E-04	3.64E-05	1.97E-05
463	259360.2	4085890	2.36E-04	3.59E-05	1.94E-05

464	259351.5	4085913	2.32E-04	3.54E-05	1.92E-05
465	259342.9	4085936	2.29E-04	3.49E-05	1.89E-05
466	259334.2	4085959	2.27E-04	3.45E-05	1.87E-05
467	259325.5	4085982	2.25E-04	3.42E-05	1.85E-05
468	259294.5	4086015	2.25E-04	3.42E-05	1.85E-05
469	259272.1	4086026	2.27E-04	3.46E-05	1.87E-05
470	259249.7	4086036	2.30E-04	3.50E-05	1.89E-05
471	259227.3	4086046	2.32E-04	3.54E-05	1.91E-05
472	259205	4086057	2.34E-04	3.57E-05	1.93E-05
473	259182.6	4086067	2.37E-04	3.61E-05	1.95E-05
474	259160.2	4086077	2.39E-04	3.64E-05	1.97E-05
475	259137.9	4086088	2.42E-04	3.69E-05	1.99E-05
476	259115.5	4086098	2.45E-04	3.73E-05	2.02E-05
477	259093.1	4086108	2.48E-04	3.78E-05	2.04E-05
478	259070.7	4086119	2.51E-04	3.83E-05	2.07E-05
479	259048.4	4086129	2.55E-04	3.89E-05	2.10E-05
480	259026	4086139	2.60E-04	3.96E-05	2.14E-05
481	259003.6	4086150	2.65E-04	4.03E-05	2.18E-05
482	258981.3	4086160	2.70E-04	4.11E-05	2.23E-05
483	258958.9	4086171	2.76E-04	4.21E-05	2.28E-05
484	258936.5	4086181	2.82E-04	4.30E-05	2.33E-05
485	258914.2	4086191	2.89E-04	4.40E-05	2.38E-05
486	258891.8	4086202	2.95E-04	4.50E-05	2.43E-05
487	258869.4	4086212	3.01E-04	4.59E-05	2.48E-05
488	258847	4086222	3.07E-04	4.67E-05	2.53E-05
489	258824.7	4086233	3.11E-04	4.74E-05	2.57E-05
490	258802.3	4086243	3.15E-04	4.80E-05	2.60E-05
491	258779.9	4086253	3.18E-04	4.84E-05	2.62E-05
492	258757.6	4086264	3.20E-04	4.88E-05	2.64E-05
493	258735.2	4086274	3.23E-04	4.91E-05	2.66E-05
494	258712.8	4086284	3.25E-04	4.94E-05	2.68E-05
495	258690.4	4086295	3.26E-04	4.97E-05	2.69E-05
496	258668.1	4086305	3.29E-04	5.01E-05	2.71E-05
497	258645.7	4086315	3.31E-04	5.04E-05	2.73E-05
498	258623.3	4086326	3.34E-04	5.09E-05	2.75E-05
499	258601	4086336	3.37E-04	5.13E-05	2.78E-05
500	258578.6	4086346	3.41E-04	5.19E-05	2.81E-05
501	258556.2	4086357	3.44E-04	5.24E-05	2.84E-05
502	258533.8	4086367	3.48E-04	5.31E-05	2.87E-05
503	258511.5	4086377	3.52E-04	5.37E-05	2.90E-05
504	258489.1	4086388	3.57E-04	5.43E-05	2.94E-05
505	258466.7	4086398	3.61E-04	5.50E-05	2.98E-05
506	258444.4	4086408	3.65E-04	5.57E-05	3.01E-05
507	259663.9	4085082	3.63E-04	5.54E-05	3.00E-05
508	259663.2	4085057	3.69E-04	5.62E-05	3.04E-05
509	259662.5	4085033	3.76E-04	5.73E-05	3.10E-05
510	259661.7	4085008	3.84E-04	5.85E-05	3.17E-05

511	259661	4084983	3.94E-04	6.00E-05	3.25E-05
512	259660.3	4084958	4.06E-04	6.18E-05	3.34E-05
513	259659.6	4084934	4.19E-04	6.38E-05	3.45E-05
514	259658.9	4084909	4.32E-04	6.58E-05	3.56E-05
515	259658.1	4084884	4.45E-04	6.78E-05	3.67E-05
516	259855.1	4085100	3.03E-04	4.62E-05	2.50E-05
517	259846.4	4085123	3.03E-04	4.61E-05	2.50E-05
518	259837.7	4085146	3.03E-04	4.61E-05	2.50E-05
519	259829	4085169	3.02E-04	4.61E-05	2.49E-05
520	259820.3	4085192	3.02E-04	4.60E-05	2.49E-05
521	259811.6	4085215	3.01E-04	4.58E-05	2.48E-05
522	259802.9	4085238	2.98E-04	4.54E-05	2.46E-05
523	259794.2	4085262	2.95E-04	4.50E-05	2.43E-05
524	259785.5	4085285	2.91E-04	4.44E-05	2.40E-05
525	259776.8	4085308	2.87E-04	4.37E-05	2.36E-05
526	259768.1	4085331	2.82E-04	4.29E-05	2.32E-05
527	259759.4	4085354	2.77E-04	4.21E-05	2.28E-05
528	259750.6	4085377	2.71E-04	4.14E-05	2.24E-05
529	259741.9	4085400	2.66E-04	4.06E-05	2.20E-05
530	259733.2	4085424	2.62E-04	3.98E-05	2.16E-05
531	259724.5	4085447	2.57E-04	3.91E-05	2.12E-05
532	259715.8	4085470	2.53E-04	3.85E-05	2.08E-05
533	259707.1	4085493	2.49E-04	3.79E-05	2.05E-05
534	259698.4	4085516	2.45E-04	3.73E-05	2.02E-05
535	259689.7	4085539	2.42E-04	3.68E-05	1.99E-05
536	259681	4085562	2.39E-04	3.64E-05	1.97E-05
537	259672.3	4085586	2.37E-04	3.60E-05	1.95E-05
538	259663.6	4085609	2.34E-04	3.57E-05	1.93E-05
539	259654.9	4085632	2.32E-04	3.54E-05	1.92E-05
540	259646.2	4085655	2.31E-04	3.51E-05	1.90E-05
541	259637.5	4085678	2.29E-04	3.49E-05	1.89E-05
542	259628.8	4085701	2.27E-04	3.47E-05	1.87E-05
543	259620.1	4085724	2.26E-04	3.44E-05	1.86E-05
544	259611.4	4085748	2.24E-04	3.41E-05	1.84E-05
545	259602.6	4085771	2.22E-04	3.39E-05	1.83E-05
546	259593.9	4085794	2.21E-04	3.36E-05	1.82E-05
547	259585.2	4085817	2.19E-04	3.33E-05	1.80E-05
548	259576.5	4085840	2.17E-04	3.31E-05	1.79E-05
549	259567.8	4085863	2.15E-04	3.28E-05	1.77E-05
550	259559.1	4085887	2.13E-04	3.24E-05	1.75E-05
551	259550.4	4085910	2.10E-04	3.20E-05	1.73E-05
552	259541.7	4085933	2.07E-04	3.16E-05	1.71E-05
553	259533	4085956	2.05E-04	3.12E-05	1.69E-05
554	259524.3	4085979	2.02E-04	3.07E-05	1.66E-05
555	259515.6	4086002	1.99E-04	3.03E-05	1.64E-05
556	259506.9	4086025	1.97E-04	3.00E-05	1.62E-05
557	259498.2	4086049	1.94E-04	2.96E-05	1.60E-05

558	259489.5	4086072	1.92E-04	2.93E-05	1.59E-05
559	259480.8	4086095	1.91E-04	2.90E-05	1.57E-05
560	259472.1	4086118	1.89E-04	2.88E-05	1.56E-05
561	259440.9	4086152	1.89E-04	2.88E-05	1.56E-05
562	259418.5	4086162	1.91E-04	2.91E-05	1.57E-05
563	259396	4086172	1.93E-04	2.94E-05	1.59E-05
564	259373.6	4086183	1.95E-04	2.97E-05	1.61E-05
565	259351.1	4086193	1.97E-04	3.00E-05	1.62E-05
566	259328.7	4086203	1.99E-04	3.03E-05	1.64E-05
567	259306.2	4086214	2.01E-04	3.06E-05	1.66E-05
568	259283.8	4086224	2.03E-04	3.09E-05	1.67E-05
569	259261.3	4086235	2.05E-04	3.12E-05	1.69E-05
570	259238.9	4086245	2.07E-04	3.16E-05	1.71E-05
571	259216.4	4086255	2.10E-04	3.20E-05	1.73E-05
572	259194	4086266	2.13E-04	3.24E-05	1.75E-05
573	259171.6	4086276	2.16E-04	3.28E-05	1.78E-05
574	259149.1	4086286	2.19E-04	3.33E-05	1.80E-05
575	259126.7	4086297	2.22E-04	3.39E-05	1.83E-05
576	259104.2	4086307	2.26E-04	3.45E-05	1.87E-05
577	259081.8	4086318	2.31E-04	3.52E-05	1.90E-05
578	259059.3	4086328	2.36E-04	3.59E-05	1.94E-05
579	259036.9	4086338	2.41E-04	3.67E-05	1.98E-05
580	259014.4	4086349	2.46E-04	3.75E-05	2.03E-05
581	258992	4086359	2.51E-04	3.82E-05	2.07E-05
582	258969.5	4086370	2.56E-04	3.90E-05	2.11E-05
583	258947.1	4086380	2.61E-04	3.97E-05	2.15E-05
584	258924.6	4086390	2.64E-04	4.03E-05	2.18E-05
585	258902.2	4086401	2.68E-04	4.08E-05	2.21E-05
586	258879.8	4086411	2.70E-04	4.12E-05	2.23E-05
587	258857.3	4086421	2.72E-04	4.15E-05	2.25E-05
588	258834.9	4086432	2.74E-04	4.17E-05	2.26E-05
589	258812.4	4086442	2.75E-04	4.20E-05	2.27E-05
590	258790	4086453	2.77E-04	4.21E-05	2.28E-05
591	258767.5	4086463	2.78E-04	4.24E-05	2.29E-05
592	258745.1	4086473	2.79E-04	4.26E-05	2.30E-05
593	258722.6	4086484	2.81E-04	4.28E-05	2.31E-05
594	258700.2	4086494	2.82E-04	4.30E-05	2.33E-05
595	258677.7	4086504	2.84E-04	4.33E-05	2.34E-05
596	258655.3	4086515	2.87E-04	4.37E-05	2.36E-05
597	258632.8	4086525	2.89E-04	4.40E-05	2.38E-05
598	258610.4	4086536	2.91E-04	4.44E-05	2.40E-05
599	258588	4086546	2.94E-04	4.48E-05	2.43E-05
600	258565.5	4086556	2.97E-04	4.53E-05	2.45E-05
601	258543.1	4086567	3.00E-04	4.58E-05	2.48E-05
602	258520.6	4086577	3.03E-04	4.62E-05	2.50E-05
603	258498.2	4086588	3.07E-04	4.67E-05	2.53E-05
604	258475.7	4086598	3.10E-04	4.72E-05	2.55E-05

605	258453.3	4086608	3.12E-04	4.76E-05	2.57E-05
606	259863.8	4085076	3.03E-04	4.62E-05	2.50E-05
607	259863.1	4085052	3.07E-04	4.68E-05	2.53E-05
608	259862.4	4085027	3.12E-04	4.75E-05	2.57E-05
609	259861.7	4085002	3.18E-04	4.85E-05	2.62E-05
610	259860.9	4084977	3.26E-04	4.96E-05	2.68E-05
611	259860.2	4084953	3.34E-04	5.09E-05	2.76E-05
612	259859.5	4084928	3.44E-04	5.24E-05	2.84E-05
613	259858.8	4084903	3.54E-04	5.40E-05	2.92E-05
614	259858	4084878	3.64E-04	5.55E-05	3.00E-05
615	258357.7	4084897	3.53E-02	5.38E-03	2.91E-03
616	258333.3	4084898	3.70E-02	5.64E-03	3.05E-03
617	258309	4084899	3.79E-02	5.77E-03	3.12E-03
618	258284.7	4084900	3.84E-02	5.85E-03	3.17E-03
619	258260.3	4084901	3.88E-02	5.91E-03	3.20E-03
620	258236	4084902	3.91E-02	5.96E-03	3.22E-03
621	258211.7	4084903	3.93E-02	5.98E-03	3.24E-03
622	258187.3	4084904	3.93E-02	5.99E-03	3.24E-03
623	258163	4084905	3.94E-02	6.00E-03	3.24E-03
624	258138.7	4084906	3.93E-02	5.99E-03	3.24E-03
625	258114.3	4084907	3.93E-02	5.98E-03	3.24E-03
626	258090	4084908	3.92E-02	5.97E-03	3.23E-03
627	258065.7	4084909	3.90E-02	5.95E-03	3.22E-03
628	258041.3	4084910	3.89E-02	5.92E-03	3.20E-03
629	258017	4084911	3.87E-02	5.89E-03	3.19E-03
630	257992.7	4084912	3.84E-02	5.85E-03	3.17E-03
631	257968.3	4084913	3.81E-02	5.81E-03	3.14E-03
632	257944	4084914	3.78E-02	5.76E-03	3.12E-03
633	257919.7	4084915	3.74E-02	5.69E-03	3.08E-03
634	257895.4	4084916	3.69E-02	5.62E-03	3.04E-03
635	257871	4084917	3.63E-02	5.53E-03	2.99E-03
636	257846.7	4084918	3.56E-02	5.42E-03	2.93E-03
637	257822.4	4084919	3.47E-02	5.29E-03	2.86E-03
638	257798	4084920	3.37E-02	5.13E-03	2.78E-03
639	257773.7	4084921	3.24E-02	4.94E-03	2.67E-03
640	257749.4	4084922	3.09E-02	4.71E-03	2.55E-03
641	257725	4084923	2.91E-02	4.43E-03	2.40E-03
642	257700.7	4084924	2.69E-02	4.10E-03	2.22E-03
643	257676.4	4084925	2.42E-02	3.68E-03	1.99E-03
644	257652	4084926	2.08E-02	3.17E-03	1.72E-03
645	257627.7	4084927	1.67E-02	2.55E-03	1.38E-03
646	257603.4	4084928	1.20E-02	1.82E-03	9.87E-04
647	257579	4084929	7.49E-03	1.14E-03	6.17E-04
648	257554.7	4084930	5.06E-03	7.71E-04	4.17E-04
649	258374.7	4084879	2.62E-02	4.00E-03	2.16E-03
650	258332.3	4084873	2.57E-02	3.92E-03	2.12E-03
651	258308	4084874	2.62E-02	3.98E-03	2.16E-03

652	258283.6	4084875	2.64E-02	4.03E-03	2.18E-03
653	258259.3	4084876	2.67E-02	4.06E-03	2.20E-03
654	258235	4084877	2.68E-02	4.08E-03	2.21E-03
655	258210.6	4084878	2.69E-02	4.10E-03	2.22E-03
656	258186.3	4084879	2.69E-02	4.10E-03	2.22E-03
657	258162	4084880	2.69E-02	4.10E-03	2.22E-03
658	258137.6	4084881	2.69E-02	4.10E-03	2.22E-03
659	258113.3	4084882	2.68E-02	4.09E-03	2.21E-03
660	258089	4084883	2.68E-02	4.08E-03	2.21E-03
661	258064.6	4084884	2.66E-02	4.06E-03	2.19E-03
662	258040.3	4084885	2.64E-02	4.03E-03	2.18E-03
663	258016	4084886	2.62E-02	4.00E-03	2.16E-03
664	257991.7	4084887	2.60E-02	3.96E-03	2.14E-03
665	257967.3	4084888	2.57E-02	3.91E-03	2.12E-03
666	257943	4084889	2.53E-02	3.85E-03	2.08E-03
667	257918.7	4084890	2.49E-02	3.79E-03	2.05E-03
668	257894.3	4084891	2.43E-02	3.71E-03	2.01E-03
669	257870	4084892	2.38E-02	3.62E-03	1.96E-03
670	257845.7	4084893	2.30E-02	3.51E-03	1.90E-03
671	257821.3	4084894	2.22E-02	3.38E-03	1.83E-03
672	257797	4084895	2.12E-02	3.23E-03	1.75E-03
673	257772.7	4084896	2.01E-02	3.06E-03	1.65E-03
674	257748.3	4084897	1.87E-02	2.85E-03	1.54E-03
675	257724	4084898	1.71E-02	2.61E-03	1.41E-03
676	257699.7	4084899	1.53E-02	2.33E-03	1.26E-03
677	257675.3	4084900	1.32E-02	2.01E-03	1.09E-03
678	257651	4084901	1.09E-02	1.66E-03	8.97E-04
679	257626.7	4084902	8.42E-03	1.28E-03	6.94E-04
680	257602.3	4084903	6.15E-03	9.37E-04	5.07E-04
681	257578	4084904	4.48E-03	6.82E-04	3.69E-04
682	257553.7	4084905	3.49E-03	5.31E-04	2.88E-04
683	258373.7	4084854	2.01E-02	3.07E-03	1.66E-03
684	258417.8	4084885	2.28E-02	3.47E-03	1.88E-03
685	258331.3	4084848	1.96E-02	2.99E-03	1.62E-03
686	258306.9	4084849	1.99E-02	3.03E-03	1.64E-03
687	258282.6	4084850	2.00E-02	3.05E-03	1.65E-03
688	258258.3	4084851	2.02E-02	3.07E-03	1.66E-03
689	258233.9	4084852	2.02E-02	3.08E-03	1.67E-03
690	258209.6	4084853	2.03E-02	3.09E-03	1.67E-03
691	258185.3	4084854	2.03E-02	3.09E-03	1.67E-03
692	258160.9	4084855	2.02E-02	3.08E-03	1.67E-03
693	258136.6	4084856	2.02E-02	3.07E-03	1.66E-03
694	258112.3	4084857	2.01E-02	3.06E-03	1.65E-03
695	258088	4084858	2.00E-02	3.04E-03	1.64E-03
696	258063.6	4084859	1.98E-02	3.02E-03	1.63E-03
697	258039.3	4084860	1.96E-02	2.99E-03	1.62E-03
698	258015	4084861	1.94E-02	2.95E-03	1.60E-03

699	257990.6	4084862	1.91E-02	2.91E-03	1.58E-03
700	257966.3	4084863	1.88E-02	2.86E-03	1.55E-03
701	257942	4084864	1.84E-02	2.81E-03	1.52E-03
702	257917.6	4084865	1.80E-02	2.74E-03	1.48E-03
703	257893.3	4084866	1.75E-02	2.66E-03	1.44E-03
704	257869	4084867	1.69E-02	2.57E-03	1.39E-03
705	257844.6	4084868	1.62E-02	2.47E-03	1.33E-03
706	257820.3	4084869	1.54E-02	2.35E-03	1.27E-03
707	257796	4084870	1.45E-02	2.21E-03	1.19E-03
708	257771.6	4084871	1.35E-02	2.05E-03	1.11E-03
709	257747.3	4084872	1.23E-02	1.87E-03	1.01E-03
710	257723	4084873	1.10E-02	1.68E-03	9.06E-04
711	257698.6	4084874	9.58E-03	1.46E-03	7.89E-04
712	257674.3	4084875	8.07E-03	1.23E-03	6.65E-04
713	257650	4084876	6.55E-03	9.97E-04	5.40E-04
714	257625.6	4084877	5.14E-03	7.83E-04	4.24E-04
715	257601.3	4084878	3.99E-03	6.08E-04	3.29E-04
716	257577	4084879	3.17E-03	4.84E-04	2.62E-04
717	257552.7	4084880	2.63E-03	4.01E-04	2.17E-04
718	258372.7	4084829	1.62E-02	2.46E-03	1.33E-03
719	258408.8	4084842	1.70E-02	2.60E-03	1.40E-03
720	258434.8	4084866	1.84E-02	2.80E-03	1.52E-03
721	258330.2	4084823	1.57E-02	2.39E-03	1.29E-03
722	258305.9	4084824	1.58E-02	2.41E-03	1.31E-03
723	258281.6	4084825	1.59E-02	2.43E-03	1.31E-03
724	258257.3	4084826	1.60E-02	2.44E-03	1.32E-03
725	258232.9	4084827	1.60E-02	2.44E-03	1.32E-03
726	258208.6	4084828	1.60E-02	2.44E-03	1.32E-03
727	258184.3	4084829	1.60E-02	2.43E-03	1.32E-03
728	258159.9	4084830	1.59E-02	2.43E-03	1.31E-03
729	258135.6	4084831	1.58E-02	2.41E-03	1.31E-03
730	258111.3	4084832	1.57E-02	2.40E-03	1.30E-03
731	258086.9	4084833	1.56E-02	2.38E-03	1.29E-03
732	258062.6	4084834	1.54E-02	2.35E-03	1.27E-03
733	258038.3	4084835	1.52E-02	2.32E-03	1.25E-03
734	258013.9	4084836	1.50E-02	2.28E-03	1.23E-03
735	257989.6	4084837	1.47E-02	2.24E-03	1.21E-03
736	257965.3	4084838	1.44E-02	2.19E-03	1.18E-03
737	257940.9	4084839	1.40E-02	2.13E-03	1.15E-03
738	257916.6	4084840	1.36E-02	2.06E-03	1.12E-03
739	257892.3	4084841	1.31E-02	1.99E-03	1.08E-03
740	257867.9	4084842	1.25E-02	1.90E-03	1.03E-03
741	257843.6	4084843	1.18E-02	1.81E-03	9.77E-04
742	257819.3	4084844	1.11E-02	1.70E-03	9.17E-04
743	257794.9	4084845	1.03E-02	1.57E-03	8.51E-04
744	257770.6	4084846	9.44E-03	1.44E-03	7.78E-04
745	257746.3	4084847	8.48E-03	1.29E-03	6.99E-04

746	257722	4084848	7.46E-03	1.14E-03	6.15E-04
747	257697.6	4084849	6.40E-03	9.75E-04	5.27E-04
748	257673.3	4084850	5.36E-03	8.16E-04	4.41E-04
749	257649	4084851	4.39E-03	6.68E-04	3.62E-04
750	257624.6	4084852	3.56E-03	5.42E-04	2.93E-04
751	257600.3	4084853	2.91E-03	4.43E-04	2.40E-04
752	257576	4084854	2.43E-03	3.71E-04	2.01E-04
753	257551.6	4084855	2.09E-03	3.19E-04	1.73E-04
754	258374.2	4084780	1.13E-02	1.73E-03	9.34E-04
755	258395.9	4084788	1.18E-02	1.80E-03	9.73E-04
756	258417.6	4084796	1.22E-02	1.85E-03	1.00E-03
757	258439.3	4084804	1.24E-02	1.88E-03	1.02E-03
758	258470.5	4084833	1.32E-02	2.01E-03	1.09E-03
759	258480	4084854	1.38E-02	2.11E-03	1.14E-03
760	258489.6	4084876	1.39E-02	2.12E-03	1.15E-03
761	258499.1	4084897	1.36E-02	2.07E-03	1.12E-03
762	258352.5	4084772	1.08E-02	1.65E-03	8.91E-04
763	258328.2	4084773	1.09E-02	1.66E-03	8.97E-04
764	258303.9	4084774	1.09E-02	1.66E-03	9.01E-04
765	258279.5	4084775	1.09E-02	1.67E-03	9.02E-04
766	258255.2	4084776	1.09E-02	1.66E-03	9.01E-04
767	258230.9	4084777	1.09E-02	1.66E-03	8.98E-04
768	258206.5	4084778	1.08E-02	1.65E-03	8.93E-04
769	258182.2	4084779	1.08E-02	1.64E-03	8.87E-04
770	258157.9	4084780	1.07E-02	1.62E-03	8.79E-04
771	258133.5	4084781	1.05E-02	1.61E-03	8.69E-04
772	258109.2	4084782	1.04E-02	1.59E-03	8.58E-04
773	258084.9	4084783	1.02E-02	1.56E-03	8.44E-04
774	258060.5	4084784	1.00E-02	1.53E-03	8.28E-04
775	258036.2	4084785	9.83E-03	1.50E-03	8.10E-04
776	258011.9	4084786	9.58E-03	1.46E-03	7.90E-04
777	257987.5	4084787	9.30E-03	1.42E-03	7.66E-04
778	257963.2	4084788	8.98E-03	1.37E-03	7.40E-04
779	257938.9	4084789	8.62E-03	1.31E-03	7.11E-04
780	257914.6	4084790	8.23E-03	1.25E-03	6.78E-04
781	257890.2	4084791	7.79E-03	1.19E-03	6.42E-04
782	257865.9	4084792	7.31E-03	1.11E-03	6.03E-04
783	257841.6	4084793	6.80E-03	1.04E-03	5.61E-04
784	257817.2	4084794	6.25E-03	9.52E-04	5.15E-04
785	257792.9	4084795	5.67E-03	8.64E-04	4.68E-04
786	257768.6	4084796	5.08E-03	7.74E-04	4.19E-04
787	257744.2	4084797	4.48E-03	6.82E-04	3.69E-04
788	257719.9	4084798	3.90E-03	5.94E-04	3.21E-04
789	257695.6	4084799	3.35E-03	5.10E-04	2.76E-04
790	257671.2	4084800	2.86E-03	4.36E-04	2.36E-04
791	257646.9	4084801	2.44E-03	3.72E-04	2.01E-04
792	257622.6	4084802	2.10E-03	3.20E-04	1.73E-04

793	257598.2	4084803	1.83E-03	2.79E-04	1.51E-04
794	257573.9	4084804	1.62E-03	2.46E-04	1.33E-04
795	257549.6	4084805	1.45E-03	2.21E-04	1.19E-04
796	258371.1	4084730	8.36E-03	1.27E-03	6.89E-04
797	258412.4	4084745	9.01E-03	1.37E-03	7.43E-04
798	258453.7	4084760	9.45E-03	1.44E-03	7.79E-04
799	258504.1	4084796	1.00E-02	1.53E-03	8.26E-04
800	258522.3	4084836	1.06E-02	1.62E-03	8.75E-04
801	258540.4	4084876	1.03E-02	1.56E-03	8.45E-04
802	258326.1	4084723	8.01E-03	1.22E-03	6.60E-04
803	258301.8	4084724	7.99E-03	1.22E-03	6.59E-04
804	258277.5	4084725	7.96E-03	1.21E-03	6.56E-04
805	258253.1	4084726	7.91E-03	1.20E-03	6.52E-04
806	258228.8	4084727	7.84E-03	1.19E-03	6.46E-04
807	258204.5	4084728	7.76E-03	1.18E-03	6.39E-04
808	258180.1	4084729	7.66E-03	1.17E-03	6.31E-04
809	258155.8	4084730	7.54E-03	1.15E-03	6.21E-04
810	258131.5	4084731	7.40E-03	1.13E-03	6.10E-04
811	258107.2	4084732	7.25E-03	1.10E-03	5.98E-04
812	258082.8	4084733	7.08E-03	1.08E-03	5.83E-04
813	258058.5	4084734	6.88E-03	1.05E-03	5.67E-04
814	258034.2	4084735	6.67E-03	1.02E-03	5.50E-04
815	258009.8	4084736	6.43E-03	9.80E-04	5.30E-04
816	257985.5	4084737	6.17E-03	9.40E-04	5.09E-04
817	257961.2	4084738	5.89E-03	8.97E-04	4.85E-04
818	257936.8	4084739	5.58E-03	8.50E-04	4.60E-04
819	257912.5	4084740	5.25E-03	8.00E-04	4.33E-04
820	257888.2	4084741	4.90E-03	7.47E-04	4.04E-04
821	257863.8	4084742	4.54E-03	6.91E-04	3.74E-04
822	257839.5	4084743	4.16E-03	6.34E-04	3.43E-04
823	257815.2	4084744	3.78E-03	5.75E-04	3.11E-04
824	257790.8	4084745	3.39E-03	5.17E-04	2.80E-04
825	257766.5	4084746	3.02E-03	4.61E-04	2.49E-04
826	257742.2	4084747	2.67E-03	4.07E-04	2.20E-04
827	257717.8	4084748	2.35E-03	3.58E-04	1.94E-04
828	257693.5	4084749	2.06E-03	3.14E-04	1.70E-04
829	257669.2	4084750	1.82E-03	2.77E-04	1.50E-04
830	257644.8	4084751	1.61E-03	2.45E-04	1.33E-04
831	257620.5	4084752	1.43E-03	2.19E-04	1.18E-04
832	257596.2	4084753	1.29E-03	1.97E-04	1.06E-04
833	257571.9	4084754	1.17E-03	1.79E-04	9.68E-05
834	257547.5	4084755	1.08E-03	1.64E-04	8.86E-05
835	258371	4084681	6.41E-03	9.77E-04	5.29E-04
836	258393.6	4084689	6.71E-03	1.02E-03	5.53E-04
837	258416.2	4084697	6.99E-03	1.06E-03	5.76E-04
838	258438.8	4084706	7.23E-03	1.10E-03	5.96E-04
839	258461.4	4084714	7.43E-03	1.13E-03	6.13E-04

840	258484	4084722	7.57E-03	1.15E-03	6.24E-04
841	258506.6	4084731	7.62E-03	1.16E-03	6.28E-04
842	258539.1	4084761	7.99E-03	1.22E-03	6.59E-04
843	258549	4084783	8.29E-03	1.26E-03	6.84E-04
844	258558.9	4084805	8.44E-03	1.29E-03	6.95E-04
845	258568.9	4084827	8.40E-03	1.28E-03	6.93E-04
846	258578.8	4084849	8.17E-03	1.24E-03	6.73E-04
847	258588.7	4084871	7.75E-03	1.18E-03	6.39E-04
848	258598.6	4084893	7.19E-03	1.10E-03	5.93E-04
849	258348.4	4084672	6.11E-03	9.30E-04	5.03E-04
850	258324.1	4084673	6.08E-03	9.26E-04	5.01E-04
851	258299.8	4084674	6.04E-03	9.20E-04	4.98E-04
852	258275.4	4084675	5.98E-03	9.11E-04	4.93E-04
853	258251.1	4084676	5.91E-03	9.00E-04	4.87E-04
854	258226.8	4084677	5.82E-03	8.87E-04	4.80E-04
855	258202.4	4084678	5.73E-03	8.72E-04	4.72E-04
856	258178.1	4084679	5.61E-03	8.55E-04	4.63E-04
857	258153.8	4084680	5.49E-03	8.36E-04	4.52E-04
858	258129.4	4084681	5.35E-03	8.15E-04	4.41E-04
859	258105.1	4084682	5.20E-03	7.92E-04	4.28E-04
860	258080.8	4084683	5.03E-03	7.66E-04	4.15E-04
861	258056.4	4084684	4.85E-03	7.39E-04	4.00E-04
862	258032.1	4084685	4.65E-03	7.09E-04	3.83E-04
863	258007.8	4084686	4.44E-03	6.77E-04	3.66E-04
864	257983.4	4084687	4.22E-03	6.43E-04	3.48E-04
865	257959.1	4084688	3.98E-03	6.07E-04	3.28E-04
866	257934.8	4084689	3.74E-03	5.69E-04	3.08E-04
867	257910.4	4084690	3.48E-03	5.30E-04	2.87E-04
868	257886.1	4084691	3.22E-03	4.90E-04	2.65E-04
869	257861.8	4084692	2.96E-03	4.50E-04	2.44E-04
870	257837.4	4084693	2.69E-03	4.10E-04	2.22E-04
871	257813.1	4084694	2.44E-03	3.72E-04	2.01E-04
872	257788.8	4084695	2.20E-03	3.35E-04	1.81E-04
873	257764.5	4084696	1.97E-03	3.00E-04	1.63E-04
874	257740.1	4084697	1.77E-03	2.69E-04	1.46E-04
875	257715.8	4084698	1.58E-03	2.41E-04	1.30E-04
876	257691.5	4084699	1.42E-03	2.16E-04	1.17E-04
877	257667.1	4084700	1.28E-03	1.95E-04	1.06E-04
878	257642.8	4084701	1.16E-03	1.77E-04	9.58E-05
879	257618.5	4084702	1.06E-03	1.62E-04	8.74E-05
880	257594.1	4084703	9.75E-04	1.48E-04	8.03E-05
881	257569.8	4084704	9.01E-04	1.37E-04	7.43E-05
882	257545.5	4084705	8.38E-04	1.28E-04	6.90E-05
883	258368	4084630	5.00E-03	7.61E-04	4.12E-04
884	258389.7	4084638	5.23E-03	7.97E-04	4.31E-04
885	258411.4	4084646	5.46E-03	8.31E-04	4.50E-04
886	258433.1	4084654	5.67E-03	8.63E-04	4.67E-04

887	258454.8	4084662	5.86E-03	8.93E-04	4.83E-04
888	258476.5	4084670	6.03E-03	9.18E-04	4.97E-04
889	258498.2	4084679	6.15E-03	9.37E-04	5.07E-04
890	258519.9	4084687	6.23E-03	9.50E-04	5.14E-04
891	258541.5	4084695	6.26E-03	9.53E-04	5.16E-04
892	258572.8	4084724	6.52E-03	9.93E-04	5.37E-04
893	258582.3	4084745	6.76E-03	1.03E-03	5.57E-04
894	258591.8	4084766	6.88E-03	1.05E-03	5.67E-04
895	258601.4	4084787	6.91E-03	1.05E-03	5.70E-04
896	258610.9	4084808	6.82E-03	1.04E-03	5.62E-04
897	258620.4	4084829	6.61E-03	1.01E-03	5.45E-04
898	258630	4084850	6.29E-03	9.58E-04	5.18E-04
899	258639.5	4084871	5.88E-03	8.96E-04	4.85E-04
900	258649	4084892	5.42E-03	8.26E-04	4.47E-04
901	258346.4	4084622	4.76E-03	7.24E-04	3.92E-04
902	258322	4084623	4.71E-03	7.17E-04	3.88E-04
903	258297.7	4084624	4.65E-03	7.09E-04	3.83E-04
904	258273.4	4084625	4.58E-03	6.98E-04	3.78E-04
905	258249	4084626	4.50E-03	6.86E-04	3.71E-04
906	258224.7	4084627	4.41E-03	6.72E-04	3.64E-04
907	258200.4	4084628	4.31E-03	6.57E-04	3.55E-04
908	258176	4084629	4.20E-03	6.40E-04	3.46E-04
909	258151.7	4084630	4.08E-03	6.21E-04	3.36E-04
910	258127.4	4084631	3.94E-03	6.01E-04	3.25E-04
911	258103	4084632	3.80E-03	5.79E-04	3.13E-04
912	258078.7	4084633	3.65E-03	5.55E-04	3.00E-04
913	258054.4	4084634	3.48E-03	5.31E-04	2.87E-04
914	258030	4084635	3.32E-03	5.05E-04	2.73E-04
915	258005.7	4084636	3.14E-03	4.79E-04	2.59E-04
916	257981.4	4084637	2.96E-03	4.51E-04	2.44E-04
917	257957.1	4084638	2.77E-03	4.22E-04	2.28E-04
918	257932.7	4084639	2.58E-03	3.93E-04	2.13E-04
919	257908.4	4084640	2.39E-03	3.64E-04	1.97E-04
920	257884.1	4084641	2.20E-03	3.36E-04	1.82E-04
921	257859.7	4084642	2.02E-03	3.08E-04	1.67E-04
922	257835.4	4084643	1.85E-03	2.81E-04	1.52E-04
923	257811.1	4084644	1.68E-03	2.56E-04	1.39E-04
924	257786.7	4084645	1.53E-03	2.33E-04	1.26E-04
925	257762.4	4084646	1.39E-03	2.11E-04	1.14E-04
926	257738.1	4084647	1.26E-03	1.92E-04	1.04E-04
927	257713.7	4084648	1.15E-03	1.75E-04	9.48E-05
928	257689.4	4084649	1.05E-03	1.60E-04	8.67E-05
929	257665.1	4084650	9.66E-04	1.47E-04	7.96E-05
930	257640.7	4084651	8.91E-04	1.36E-04	7.35E-05
931	257616.4	4084652	8.27E-04	1.26E-04	6.81E-05
932	257592.1	4084653	7.70E-04	1.17E-04	6.35E-05
933	257567.7	4084654	7.20E-04	1.10E-04	5.94E-05

934	257543.4	4084655	6.76E-04	1.03E-04	5.57E-05
935	258364.5	4084531	3.15E-03	4.81E-04	2.60E-04
936	258386.7	4084539	3.33E-03	5.07E-04	2.74E-04
937	258409	4084547	3.50E-03	5.33E-04	2.88E-04
938	258431.2	4084555	3.66E-03	5.58E-04	3.02E-04
939	258453.5	4084564	3.82E-03	5.82E-04	3.15E-04
940	258475.7	4084572	3.97E-03	6.05E-04	3.28E-04
941	258498	4084580	4.11E-03	6.26E-04	3.39E-04
942	258520.2	4084588	4.23E-03	6.45E-04	3.49E-04
943	258542.4	4084597	4.33E-03	6.60E-04	3.57E-04
944	258564.7	4084605	4.41E-03	6.72E-04	3.63E-04
945	258586.9	4084613	4.46E-03	6.79E-04	3.67E-04
946	258609.2	4084621	4.47E-03	6.81E-04	3.68E-04
947	258641.2	4084651	4.63E-03	7.06E-04	3.82E-04
948	258651	4084673	4.79E-03	7.29E-04	3.95E-04
949	258660.7	4084694	4.89E-03	7.44E-04	4.03E-04
950	258670.5	4084716	4.93E-03	7.50E-04	4.06E-04
951	258680.3	4084738	4.91E-03	7.48E-04	4.05E-04
952	258690.1	4084759	4.83E-03	7.36E-04	3.98E-04
953	258699.9	4084781	4.69E-03	7.14E-04	3.86E-04
954	258709.6	4084802	4.48E-03	6.83E-04	3.70E-04
955	258719.4	4084824	4.24E-03	6.45E-04	3.49E-04
956	258729.2	4084846	3.96E-03	6.03E-04	3.26E-04
957	258739	4084867	3.66E-03	5.58E-04	3.02E-04
958	258748.7	4084889	3.36E-03	5.12E-04	2.77E-04
959	258342.3	4084522	2.98E-03	4.54E-04	2.46E-04
960	258317.9	4084523	2.92E-03	4.45E-04	2.41E-04
961	258293.6	4084524	2.85E-03	4.35E-04	2.35E-04
962	258269.3	4084525	2.78E-03	4.24E-04	2.29E-04
963	258244.9	4084526	2.70E-03	4.11E-04	2.23E-04
964	258220.6	4084527	2.61E-03	3.98E-04	2.15E-04
965	258196.3	4084528	2.52E-03	3.84E-04	2.08E-04
966	258171.9	4084529	2.43E-03	3.70E-04	2.00E-04
967	258147.6	4084530	2.33E-03	3.54E-04	1.92E-04
968	258123.3	4084531	2.22E-03	3.38E-04	1.83E-04
969	258098.9	4084532	2.11E-03	3.22E-04	1.74E-04
970	258074.6	4084533	2.00E-03	3.05E-04	1.65E-04
971	258050.3	4084534	1.89E-03	2.89E-04	1.56E-04
972	258025.9	4084535	1.78E-03	2.72E-04	1.47E-04
973	258001.6	4084536	1.67E-03	2.55E-04	1.38E-04
974	257977.3	4084537	1.56E-03	2.38E-04	1.29E-04
975	257952.9	4084538	1.46E-03	2.22E-04	1.20E-04
976	257928.6	4084539	1.35E-03	2.06E-04	1.12E-04
977	257904.3	4084540	1.26E-03	1.91E-04	1.04E-04
978	257879.9	4084541	1.16E-03	1.77E-04	9.59E-05
979	257855.6	4084542	1.08E-03	1.64E-04	8.88E-05
980	257831.3	4084543	9.98E-04	1.52E-04	8.23E-05

981	257807	4084544	9.26E-04	1.41E-04	7.63E-05
982	257782.6	4084545	8.60E-04	1.31E-04	7.09E-05
983	257758.3	4084546	8.01E-04	1.22E-04	6.60E-05
984	257734	4084547	7.48E-04	1.14E-04	6.16E-05
985	257709.6	4084548	7.00E-04	1.07E-04	5.77E-05
986	257685.3	4084549	6.57E-04	1.00E-04	5.42E-05
987	257661	4084550	6.19E-04	9.43E-05	5.10E-05
988	257636.6	4084551	5.85E-04	8.91E-05	4.82E-05
989	257612.3	4084552	5.54E-04	8.43E-05	4.56E-05
990	257588	4084553	5.25E-04	8.01E-05	4.33E-05
991	257563.6	4084554	5.00E-04	7.61E-05	4.12E-05
992	257539.3	4084555	4.76E-04	7.25E-05	3.92E-05
993	258360.7	4084431	2.05E-03	3.12E-04	1.69E-04
994	258383.3	4084439	2.18E-03	3.32E-04	1.80E-04
995	258405.9	4084448	2.31E-03	3.51E-04	1.90E-04
996	258428.5	4084456	2.44E-03	3.71E-04	2.01E-04
997	258451.1	4084464	2.56E-03	3.90E-04	2.11E-04
998	258473.7	4084473	2.68E-03	4.09E-04	2.21E-04
999	258496.3	4084481	2.80E-03	4.27E-04	2.31E-04
1000	258518.9	4084489	2.92E-03	4.44E-04	2.40E-04
1001	258541.5	4084498	3.02E-03	4.61E-04	2.49E-04
1002	258564.1	4084506	3.12E-03	4.75E-04	2.57E-04
1003	258586.6	4084514	3.20E-03	4.88E-04	2.64E-04
1004	258609.2	4084523	3.27E-03	4.99E-04	2.70E-04
1005	258631.8	4084531	3.32E-03	5.06E-04	2.74E-04
1006	258654.4	4084540	3.36E-03	5.11E-04	2.77E-04
1007	258677	4084548	3.37E-03	5.13E-04	2.78E-04
1008	258709.5	4084578	3.47E-03	5.29E-04	2.86E-04
1009	258719.5	4084600	3.58E-03	5.45E-04	2.95E-04
1010	258729.4	4084622	3.66E-03	5.58E-04	3.02E-04
1011	258739.3	4084644	3.71E-03	5.65E-04	3.06E-04
1012	258749.2	4084666	3.72E-03	5.67E-04	3.07E-04
1013	258759.2	4084688	3.69E-03	5.63E-04	3.05E-04
1014	258769.1	4084710	3.63E-03	5.53E-04	2.99E-04
1015	258779	4084732	3.53E-03	5.38E-04	2.91E-04
1016	258789	4084754	3.40E-03	5.17E-04	2.80E-04
1017	258798.9	4084776	3.23E-03	4.93E-04	2.67E-04
1018	258808.8	4084798	3.05E-03	4.65E-04	2.52E-04
1019	258818.8	4084820	2.86E-03	4.35E-04	2.36E-04
1020	258828.7	4084842	2.66E-03	4.05E-04	2.19E-04
1021	258838.6	4084864	2.46E-03	3.75E-04	2.03E-04
1022	258848.5	4084886	2.27E-03	3.46E-04	1.87E-04
1023	258338.1	4084422	1.92E-03	2.93E-04	1.58E-04
1024	258313.8	4084423	1.86E-03	2.84E-04	1.54E-04
1025	258289.5	4084424	1.80E-03	2.75E-04	1.49E-04
1026	258265.2	4084425	1.74E-03	2.65E-04	1.43E-04
1027	258240.8	4084426	1.67E-03	2.55E-04	1.38E-04

1028	258216.5	4084427	1.61E-03	2.45E-04	1.32E-04
1029	258192.2	4084428	1.53E-03	2.34E-04	1.27E-04
1030	258167.8	4084429	1.46E-03	2.23E-04	1.21E-04
1031	258143.5	4084430	1.39E-03	2.12E-04	1.15E-04
1032	258119.2	4084431	1.32E-03	2.01E-04	1.09E-04
1033	258094.8	4084432	1.25E-03	1.90E-04	1.03E-04
1034	258070.5	4084433	1.18E-03	1.79E-04	9.70E-05
1035	258046.2	4084434	1.11E-03	1.69E-04	9.14E-05
1036	258021.8	4084435	1.04E-03	1.59E-04	8.59E-05
1037	257997.5	4084436	9.79E-04	1.49E-04	8.07E-05
1038	257973.2	4084437	9.19E-04	1.40E-04	7.57E-05
1039	257948.8	4084438	8.62E-04	1.31E-04	7.10E-05
1040	257924.5	4084439	8.08E-04	1.23E-04	6.66E-05
1041	257900.2	4084440	7.58E-04	1.15E-04	6.25E-05
1042	257875.8	4084441	7.11E-04	1.08E-04	5.86E-05
1043	257851.5	4084442	6.68E-04	1.02E-04	5.51E-05
1044	257827.2	4084443	6.28E-04	9.57E-05	5.18E-05
1045	257802.8	4084444	5.91E-04	9.01E-05	4.87E-05
1046	257778.5	4084445	5.58E-04	8.50E-05	4.60E-05
1047	257754.2	4084446	5.28E-04	8.04E-05	4.35E-05
1048	257729.9	4084447	5.01E-04	7.63E-05	4.13E-05
1049	257705.5	4084448	4.76E-04	7.25E-05	3.92E-05
1050	257681.2	4084449	4.54E-04	6.92E-05	3.74E-05
1051	257656.9	4084450	4.34E-04	6.61E-05	3.58E-05
1052	257632.5	4084451	4.16E-04	6.34E-05	3.43E-05
1053	257608.2	4084452	4.00E-04	6.09E-05	3.29E-05
1054	257583.9	4084453	3.84E-04	5.86E-05	3.17E-05
1055	257559.5	4084454	3.70E-04	5.64E-05	3.05E-05
1056	257535.2	4084455	3.57E-04	5.44E-05	2.94E-05
1057	258356.9	4084331	1.36E-03	2.07E-04	1.12E-04
1058	258379.7	4084339	1.45E-03	2.21E-04	1.20E-04
1059	258402.5	4084348	1.55E-03	2.36E-04	1.28E-04
1060	258425.4	4084356	1.65E-03	2.51E-04	1.36E-04
1061	258448.2	4084365	1.74E-03	2.66E-04	1.44E-04
1062	258471	4084373	1.84E-03	2.81E-04	1.52E-04
1063	258493.8	4084382	1.94E-03	2.95E-04	1.60E-04
1064	258516.7	4084390	2.03E-03	3.10E-04	1.68E-04
1065	258539.5	4084399	2.13E-03	3.24E-04	1.75E-04
1066	258562.3	4084407	2.22E-03	3.38E-04	1.83E-04
1067	258585.2	4084416	2.30E-03	3.50E-04	1.90E-04
1068	258608	4084424	2.38E-03	3.62E-04	1.96E-04
1069	258630.8	4084432	2.45E-03	3.73E-04	2.02E-04
1070	258653.6	4084441	2.51E-03	3.82E-04	2.07E-04
1071	258676.5	4084449	2.56E-03	3.90E-04	2.11E-04
1072	258699.3	4084458	2.60E-03	3.96E-04	2.14E-04
1073	258722.1	4084466	2.62E-03	3.99E-04	2.16E-04
1074	258745	4084475	2.63E-03	4.01E-04	2.17E-04

1075	258777.8	4084505	2.72E-03	4.14E-04	2.24E-04
1076	258787.9	4084528	2.80E-03	4.26E-04	2.31E-04
1077	258797.9	4084550	2.86E-03	4.36E-04	2.36E-04
1078	258807.9	4084572	2.90E-03	4.42E-04	2.39E-04
1079	258818	4084594	2.92E-03	4.45E-04	2.41E-04
1080	258828	4084616	2.92E-03	4.45E-04	2.41E-04
1081	258838	4084638	2.90E-03	4.41E-04	2.39E-04
1082	258848.1	4084661	2.85E-03	4.34E-04	2.35E-04
1083	258858.1	4084683	2.77E-03	4.22E-04	2.29E-04
1084	258868.1	4084705	2.68E-03	4.08E-04	2.21E-04
1085	258878.2	4084727	2.57E-03	3.92E-04	2.12E-04
1086	258888.2	4084749	2.45E-03	3.73E-04	2.02E-04
1087	258898.2	4084771	2.31E-03	3.52E-04	1.91E-04
1088	258908.3	4084794	2.17E-03	3.31E-04	1.79E-04
1089	258918.3	4084816	2.04E-03	3.10E-04	1.68E-04
1090	258928.3	4084838	1.90E-03	2.89E-04	1.57E-04
1091	258938.4	4084860	1.77E-03	2.69E-04	1.46E-04
1092	258948.4	4084882	1.64E-03	2.50E-04	1.35E-04
1093	258334	4084323	1.27E-03	1.93E-04	1.04E-04
1094	258309.7	4084324	1.22E-03	1.86E-04	1.01E-04
1095	258285.4	4084325	1.17E-03	1.79E-04	9.67E-05
1096	258261	4084326	1.13E-03	1.71E-04	9.27E-05
1097	258236.7	4084327	1.08E-03	1.64E-04	8.87E-05
1098	258212.4	4084328	1.03E-03	1.56E-04	8.46E-05
1099	258188	4084329	9.77E-04	1.49E-04	8.06E-05
1100	258163.7	4084330	9.29E-04	1.41E-04	7.66E-05
1101	258139.4	4084331	8.81E-04	1.34E-04	7.26E-05
1102	258115.1	4084332	8.34E-04	1.27E-04	6.87E-05
1103	258090.7	4084333	7.89E-04	1.20E-04	6.50E-05
1104	258066.4	4084334	7.46E-04	1.14E-04	6.15E-05
1105	258042.1	4084335	7.05E-04	1.07E-04	5.81E-05
1106	258017.7	4084336	6.66E-04	1.02E-04	5.49E-05
1107	257993.4	4084337	6.30E-04	9.60E-05	5.19E-05
1108	257969.1	4084338	5.96E-04	9.09E-05	4.92E-05
1109	257944.7	4084339	5.65E-04	8.61E-05	4.66E-05
1110	257920.4	4084340	5.36E-04	8.16E-05	4.41E-05
1111	257896.1	4084341	5.08E-04	7.74E-05	4.19E-05
1112	257871.7	4084342	4.83E-04	7.36E-05	3.98E-05
1113	257847.4	4084343	4.59E-04	7.00E-05	3.79E-05
1114	257823.1	4084344	4.37E-04	6.66E-05	3.60E-05
1115	257798.7	4084345	4.17E-04	6.35E-05	3.44E-05
1116	257774.4	4084346	3.98E-04	6.06E-05	3.28E-05
1117	257750.1	4084347	3.81E-04	5.80E-05	3.14E-05
1118	257725.7	4084348	3.65E-04	5.56E-05	3.01E-05
1119	257701.4	4084349	3.50E-04	5.33E-05	2.89E-05
1120	257677.1	4084350	3.37E-04	5.13E-05	2.78E-05
1121	257652.7	4084351	3.25E-04	4.94E-05	2.68E-05

1122	257628.4	4084352	3.13E-04	4.77E-05	2.58E-05
1123	257604.1	4084353	3.03E-04	4.62E-05	2.50E-05
1124	257579.8	4084354	2.94E-04	4.47E-05	2.42E-05
1125	257555.4	4084355	2.85E-04	4.34E-05	2.35E-05
1126	257531.1	4084356	2.77E-04	4.21E-05	2.28E-05
1127	258351.9	4084231	9.21E-04	1.40E-04	7.59E-05
1128	258373.9	4084239	9.85E-04	1.50E-04	8.12E-05
1129	258395.9	4084247	1.05E-03	1.60E-04	8.66E-05
1130	258417.9	4084255	1.12E-03	1.71E-04	9.23E-05
1131	258439.9	4084263	1.19E-03	1.81E-04	9.81E-05
1132	258461.9	4084272	1.26E-03	1.92E-04	1.04E-04
1133	258483.9	4084280	1.33E-03	2.03E-04	1.10E-04
1134	258505.9	4084288	1.41E-03	2.14E-04	1.16E-04
1135	258527.9	4084296	1.48E-03	2.25E-04	1.22E-04
1136	258549.9	4084304	1.55E-03	2.36E-04	1.28E-04
1137	258571.9	4084312	1.62E-03	2.47E-04	1.34E-04
1138	258594	4084320	1.69E-03	2.58E-04	1.39E-04
1139	258616	4084329	1.76E-03	2.68E-04	1.45E-04
1140	258638	4084337	1.82E-03	2.77E-04	1.50E-04
1141	258660	4084345	1.88E-03	2.87E-04	1.55E-04
1142	258682	4084353	1.94E-03	2.95E-04	1.60E-04
1143	258704	4084361	1.99E-03	3.03E-04	1.64E-04
1144	258726	4084369	2.03E-03	3.09E-04	1.67E-04
1145	258748	4084377	2.07E-03	3.15E-04	1.70E-04
1146	258770	4084386	2.10E-03	3.19E-04	1.73E-04
1147	258792	4084394	2.12E-03	3.22E-04	1.74E-04
1148	258814	4084402	2.12E-03	3.23E-04	1.75E-04
1149	258845.6	4084431	2.19E-03	3.34E-04	1.81E-04
1150	258855.3	4084453	2.25E-03	3.43E-04	1.85E-04
1151	258865	4084474	2.30E-03	3.50E-04	1.90E-04
1152	258874.6	4084496	2.34E-03	3.56E-04	1.93E-04
1153	258884.3	4084517	2.36E-03	3.60E-04	1.95E-04
1154	258894	4084538	2.37E-03	3.61E-04	1.95E-04
1155	258903.7	4084560	2.37E-03	3.61E-04	1.95E-04
1156	258913.3	4084581	2.35E-03	3.58E-04	1.94E-04
1157	258923	4084602	2.32E-03	3.53E-04	1.91E-04
1158	258932.7	4084624	2.27E-03	3.46E-04	1.87E-04
1159	258942.3	4084645	2.22E-03	3.38E-04	1.83E-04
1160	258952	4084667	2.15E-03	3.27E-04	1.77E-04
1161	258961.7	4084688	2.07E-03	3.15E-04	1.70E-04
1162	258971.4	4084709	1.98E-03	3.02E-04	1.63E-04
1163	258981	4084731	1.89E-03	2.88E-04	1.56E-04
1164	258990.7	4084752	1.79E-03	2.73E-04	1.48E-04
1165	259000.4	4084773	1.70E-03	2.58E-04	1.40E-04
1166	259010	4084795	1.60E-03	2.44E-04	1.32E-04
1167	259019.7	4084816	1.51E-03	2.30E-04	1.24E-04
1168	259029.4	4084838	1.42E-03	2.16E-04	1.17E-04

1169	259039	4084859	1.33E-03	2.03E-04	1.10E-04
1170	259048.7	4084880	1.25E-03	1.90E-04	1.03E-04
1171	258329.9	4084223	8.60E-04	1.31E-04	7.09E-05
1172	258305.6	4084224	8.25E-04	1.26E-04	6.80E-05
1173	258281.3	4084225	7.91E-04	1.20E-04	6.52E-05
1174	258256.9	4084226	7.57E-04	1.15E-04	6.24E-05
1175	258232.6	4084227	7.23E-04	1.10E-04	5.96E-05
1176	258208.3	4084228	6.90E-04	1.05E-04	5.68E-05
1177	258183.9	4084229	6.57E-04	1.00E-04	5.41E-05
1178	258159.6	4084230	6.25E-04	9.52E-05	5.15E-05
1179	258135.3	4084231	5.94E-04	9.05E-05	4.90E-05
1180	258110.9	4084232	5.65E-04	8.60E-05	4.65E-05
1181	258086.6	4084233	5.37E-04	8.18E-05	4.42E-05
1182	258062.3	4084234	5.10E-04	7.77E-05	4.21E-05
1183	258037.9	4084235	4.85E-04	7.39E-05	4.00E-05
1184	258013.6	4084236	4.62E-04	7.04E-05	3.81E-05
1185	257989.3	4084237	4.40E-04	6.70E-05	3.63E-05
1186	257965	4084238	4.20E-04	6.40E-05	3.46E-05
1187	257940.6	4084239	4.01E-04	6.11E-05	3.30E-05
1188	257916.3	4084240	3.83E-04	5.84E-05	3.16E-05
1189	257892	4084241	3.67E-04	5.59E-05	3.02E-05
1190	257867.6	4084242	3.52E-04	5.36E-05	2.90E-05
1191	257843.3	4084243	3.38E-04	5.15E-05	2.78E-05
1192	257819	4084244	3.25E-04	4.95E-05	2.68E-05
1193	257794.6	4084245	3.13E-04	4.77E-05	2.58E-05
1194	257770.3	4084246	3.02E-04	4.60E-05	2.49E-05
1195	257746	4084247	2.92E-04	4.44E-05	2.40E-05
1196	257721.6	4084248	2.82E-04	4.29E-05	2.32E-05
1197	257697.3	4084249	2.73E-04	4.15E-05	2.25E-05
1198	257673	4084250	2.64E-04	4.03E-05	2.18E-05
1199	257648.6	4084251	2.56E-04	3.90E-05	2.11E-05
1200	257624.3	4084252	2.49E-04	3.79E-05	2.05E-05
1201	257600	4084253	2.41E-04	3.68E-05	1.99E-05
1202	257575.6	4084254	2.34E-04	3.57E-05	1.93E-05
1203	257551.3	4084255	2.28E-04	3.47E-05	1.88E-05
1204	257527	4084256	2.22E-04	3.38E-05	1.83E-05
1205	258344.2	4084031	4.70E-04	7.17E-05	3.88E-05
1206	258366.6	4084039	5.01E-04	7.63E-05	4.13E-05
1207	258389	4084048	5.34E-04	8.13E-05	4.40E-05
1208	258411.5	4084056	5.69E-04	8.66E-05	4.69E-05
1209	258433.9	4084064	6.05E-04	9.22E-05	4.99E-05
1210	258456.3	4084073	6.44E-04	9.82E-05	5.31E-05
1211	258478.8	4084081	6.85E-04	1.04E-04	5.65E-05
1212	258501.2	4084089	7.27E-04	1.11E-04	5.99E-05
1213	258523.6	4084098	7.71E-04	1.17E-04	6.35E-05
1214	258546.1	4084106	8.16E-04	1.24E-04	6.72E-05
1215	258568.5	4084114	8.62E-04	1.31E-04	7.10E-05

1216	258590.9	4084123	9.08E-04	1.38E-04	7.49E-05
1217	258613.4	4084131	9.55E-04	1.45E-04	7.87E-05
1218	258635.8	4084139	1.00E-03	1.53E-04	8.26E-05
1219	258658.2	4084147	1.05E-03	1.60E-04	8.64E-05
1220	258680.7	4084156	1.09E-03	1.67E-04	9.02E-05
1221	258703.1	4084164	1.14E-03	1.74E-04	9.40E-05
1222	258725.5	4084172	1.18E-03	1.80E-04	9.76E-05
1223	258748	4084181	1.23E-03	1.87E-04	1.01E-04
1224	258770.4	4084189	1.27E-03	1.93E-04	1.04E-04
1225	258792.9	4084197	1.31E-03	1.99E-04	1.08E-04
1226	258815.3	4084206	1.34E-03	2.04E-04	1.11E-04
1227	258837.7	4084214	1.37E-03	2.09E-04	1.13E-04
1228	258860.2	4084222	1.40E-03	2.14E-04	1.16E-04
1229	258882.6	4084230	1.43E-03	2.17E-04	1.18E-04
1230	258905	4084239	1.45E-03	2.21E-04	1.19E-04
1231	258927.5	4084247	1.46E-03	2.23E-04	1.21E-04
1232	258949.9	4084255	1.47E-03	2.24E-04	1.21E-04
1233	258982.2	4084286	1.52E-03	2.32E-04	1.26E-04
1234	258992.1	4084307	1.56E-03	2.38E-04	1.29E-04
1235	259001.9	4084329	1.60E-03	2.43E-04	1.32E-04
1236	259011.8	4084351	1.63E-03	2.48E-04	1.34E-04
1237	259021.6	4084373	1.65E-03	2.51E-04	1.36E-04
1238	259031.5	4084394	1.66E-03	2.53E-04	1.37E-04
1239	259041.4	4084416	1.67E-03	2.54E-04	1.38E-04
1240	259051.2	4084438	1.67E-03	2.54E-04	1.38E-04
1241	259061.1	4084460	1.66E-03	2.53E-04	1.37E-04
1242	259070.9	4084482	1.65E-03	2.51E-04	1.36E-04
1243	259080.8	4084503	1.63E-03	2.48E-04	1.34E-04
1244	259090.7	4084525	1.60E-03	2.43E-04	1.32E-04
1245	259100.5	4084547	1.56E-03	2.38E-04	1.29E-04
1246	259110.4	4084569	1.52E-03	2.32E-04	1.26E-04
1247	259120.2	4084591	1.48E-03	2.26E-04	1.22E-04
1248	259130.1	4084612	1.43E-03	2.18E-04	1.18E-04
1249	259140	4084634	1.38E-03	2.11E-04	1.14E-04
1250	259149.8	4084656	1.33E-03	2.03E-04	1.10E-04
1251	259159.7	4084678	1.28E-03	1.95E-04	1.05E-04
1252	259169.6	4084700	1.22E-03	1.87E-04	1.01E-04
1253	259179.4	4084721	1.17E-03	1.78E-04	9.62E-05
1254	259189.3	4084743	1.11E-03	1.69E-04	9.16E-05
1255	259199.1	4084765	1.06E-03	1.61E-04	8.71E-05
1256	259209	4084787	1.00E-03	1.53E-04	8.25E-05
1257	259218.9	4084809	9.51E-04	1.45E-04	7.84E-05
1258	259228.7	4084830	9.03E-04	1.38E-04	7.44E-05
1259	259238.6	4084852	8.59E-04	1.31E-04	7.08E-05
1260	259248.4	4084874	8.16E-04	1.24E-04	6.73E-05
1261	258321.7	4084023	4.42E-04	6.73E-05	3.64E-05
1262	258297.4	4084024	4.25E-04	6.48E-05	3.50E-05

1263	258273.1	4084025	4.09E-04	6.23E-05	3.37E-05
1264	258248.7	4084026	3.94E-04	6.00E-05	3.24E-05
1265	258224.4	4084027	3.79E-04	5.77E-05	3.12E-05
1266	258200.1	4084028	3.64E-04	5.55E-05	3.00E-05
1267	258175.7	4084029	3.50E-04	5.33E-05	2.89E-05
1268	258151.4	4084030	3.37E-04	5.13E-05	2.77E-05
1269	258127.1	4084031	3.23E-04	4.93E-05	2.67E-05
1270	258102.7	4084032	3.11E-04	4.74E-05	2.56E-05
1271	258078.4	4084033	2.99E-04	4.55E-05	2.46E-05
1272	258054.1	4084034	2.87E-04	4.37E-05	2.37E-05
1273	258029.7	4084035	2.76E-04	4.20E-05	2.27E-05
1274	258005.4	4084036	2.65E-04	4.04E-05	2.19E-05
1275	257981.1	4084037	2.56E-04	3.89E-05	2.11E-05
1276	257956.7	4084038	2.46E-04	3.75E-05	2.03E-05
1277	257932.4	4084039	2.38E-04	3.62E-05	1.96E-05
1278	257908.1	4084040	2.30E-04	3.50E-05	1.89E-05
1279	257883.7	4084041	2.23E-04	3.39E-05	1.83E-05
1280	257859.4	4084042	2.16E-04	3.29E-05	1.78E-05
1281	257835.1	4084043	2.10E-04	3.20E-05	1.73E-05
1282	257810.7	4084044	2.04E-04	3.11E-05	1.68E-05
1283	257786.4	4084045	1.99E-04	3.03E-05	1.64E-05
1284	257762.1	4084046	1.95E-04	2.96E-05	1.60E-05
1285	257737.8	4084047	1.90E-04	2.90E-05	1.57E-05
1286	257713.4	4084048	1.86E-04	2.84E-05	1.54E-05
1287	257689.1	4084049	1.83E-04	2.79E-05	1.51E-05
1288	257664.8	4084050	1.79E-04	2.73E-05	1.48E-05
1289	257640.4	4084051	1.76E-04	2.68E-05	1.45E-05
1290	257616.1	4084052	1.72E-04	2.63E-05	1.42E-05
1291	257591.8	4084053	1.69E-04	2.58E-05	1.39E-05
1292	257567.4	4084054	1.66E-04	2.52E-05	1.36E-05
1293	257543.1	4084055	1.62E-04	2.47E-05	1.34E-05
1294	257518.8	4084056	1.58E-04	2.41E-05	1.31E-05
1295	258336.2	4083831	2.80E-04	4.26E-05	2.30E-05
1296	258358.9	4083840	2.94E-04	4.48E-05	2.42E-05
1297	258381.7	4083848	3.10E-04	4.72E-05	2.55E-05
1298	258404.4	4083857	3.27E-04	4.98E-05	2.69E-05
1299	258427.1	4083865	3.45E-04	5.26E-05	2.85E-05
1300	258449.8	4083873	3.65E-04	5.56E-05	3.01E-05
1301	258472.5	4083882	3.86E-04	5.89E-05	3.19E-05
1302	258495.3	4083890	4.09E-04	6.23E-05	3.37E-05
1303	258518	4083899	4.33E-04	6.59E-05	3.57E-05
1304	258540.7	4083907	4.58E-04	6.98E-05	3.77E-05
1305	258563.4	4083916	4.84E-04	7.38E-05	3.99E-05
1306	258586.1	4083924	5.12E-04	7.80E-05	4.22E-05
1307	258608.9	4083932	5.40E-04	8.23E-05	4.45E-05
1308	258631.6	4083941	5.70E-04	8.68E-05	4.70E-05
1309	258654.3	4083949	6.00E-04	9.14E-05	4.94E-05

1310	258677	4083958	6.31E-04	9.61E-05	5.20E-05
1311	258699.7	4083966	6.62E-04	1.01E-04	5.46E-05
1312	258722.5	4083974	6.94E-04	1.06E-04	5.72E-05
1313	258745.2	4083983	7.26E-04	1.11E-04	5.99E-05
1314	258767.9	4083991	7.58E-04	1.16E-04	6.25E-05
1315	258790.6	4084000	7.90E-04	1.20E-04	6.51E-05
1316	258813.3	4084008	8.22E-04	1.25E-04	6.77E-05
1317	258836.1	4084016	8.53E-04	1.30E-04	7.03E-05
1318	258858.8	4084025	8.83E-04	1.34E-04	7.28E-05
1319	258881.5	4084033	9.12E-04	1.39E-04	7.52E-05
1320	258904.2	4084042	9.40E-04	1.43E-04	7.75E-05
1321	258926.9	4084050	9.66E-04	1.47E-04	7.96E-05
1322	258949.7	4084059	9.88E-04	1.51E-04	8.15E-05
1323	258972.4	4084067	1.01E-03	1.54E-04	8.33E-05
1324	258995.1	4084075	1.03E-03	1.57E-04	8.49E-05
1325	259017.8	4084084	1.05E-03	1.60E-04	8.64E-05
1326	259040.5	4084092	1.06E-03	1.62E-04	8.77E-05
1327	259063.3	4084101	1.08E-03	1.64E-04	8.87E-05
1328	259086	4084109	1.09E-03	1.65E-04	8.95E-05
1329	259118.7	4084139	1.12E-03	1.71E-04	9.26E-05
1330	259128.7	4084162	1.15E-03	1.76E-04	9.51E-05
1331	259138.7	4084184	1.18E-03	1.80E-04	9.72E-05
1332	259148.6	4084206	1.20E-03	1.83E-04	9.91E-05
1333	259158.6	4084228	1.22E-03	1.86E-04	1.01E-04
1334	259168.6	4084250	1.24E-03	1.88E-04	1.02E-04
1335	259178.6	4084272	1.25E-03	1.90E-04	1.03E-04
1336	259188.6	4084294	1.25E-03	1.91E-04	1.03E-04
1337	259198.6	4084316	1.26E-03	1.91E-04	1.03E-04
1338	259208.6	4084338	1.25E-03	1.91E-04	1.03E-04
1339	259218.5	4084360	1.25E-03	1.90E-04	1.03E-04
1340	259228.5	4084382	1.23E-03	1.88E-04	1.02E-04
1341	259238.5	4084404	1.22E-03	1.86E-04	1.00E-04
1342	259248.5	4084426	1.20E-03	1.83E-04	9.92E-05
1343	259258.5	4084449	1.18E-03	1.80E-04	9.74E-05
1344	259268.5	4084471	1.16E-03	1.76E-04	9.54E-05
1345	259278.5	4084493	1.13E-03	1.72E-04	9.32E-05
1346	259288.5	4084515	1.10E-03	1.68E-04	9.09E-05
1347	259298.4	4084537	1.07E-03	1.63E-04	8.84E-05
1348	259308.4	4084559	1.04E-03	1.59E-04	8.59E-05
1349	259318.4	4084581	1.01E-03	1.54E-04	8.33E-05
1350	259328.4	4084603	9.78E-04	1.49E-04	8.06E-05
1351	259338.4	4084625	9.43E-04	1.44E-04	7.78E-05
1352	259348.4	4084647	9.08E-04	1.38E-04	7.49E-05
1353	259358.4	4084669	8.72E-04	1.33E-04	7.19E-05
1354	259368.3	4084691	8.35E-04	1.27E-04	6.88E-05
1355	259378.3	4084713	7.99E-04	1.22E-04	6.59E-05
1356	259388.3	4084735	7.64E-04	1.16E-04	6.30E-05

1357	259398.3	4084758	7.31E-04	1.11E-04	6.03E-05
1358	259408.3	4084780	7.00E-04	1.07E-04	5.77E-05
1359	259418.3	4084802	6.72E-04	1.02E-04	5.54E-05
1360	259428.3	4084824	6.45E-04	9.82E-05	5.32E-05
1361	259438.2	4084846	6.19E-04	9.43E-05	5.10E-05
1362	259448.2	4084868	5.94E-04	9.05E-05	4.90E-05
1363	258313.5	4083823	2.66E-04	4.06E-05	2.20E-05
1364	258289.2	4083824	2.59E-04	3.94E-05	2.13E-05
1365	258264.8	4083825	2.51E-04	3.82E-05	2.07E-05
1366	258240.5	4083826	2.44E-04	3.71E-05	2.01E-05
1367	258216.2	4083827	2.37E-04	3.61E-05	1.95E-05
1368	258191.8	4083828	2.30E-04	3.50E-05	1.89E-05
1369	258167.5	4083829	2.23E-04	3.39E-05	1.84E-05
1370	258143.2	4083830	2.16E-04	3.29E-05	1.78E-05
1371	258118.8	4083831	2.09E-04	3.19E-05	1.72E-05
1372	258094.5	4083832	2.03E-04	3.09E-05	1.67E-05
1373	258070.2	4083833	1.96E-04	2.99E-05	1.62E-05
1374	258045.9	4083834	1.90E-04	2.90E-05	1.57E-05
1375	258021.5	4083835	1.84E-04	2.81E-05	1.52E-05
1376	257997.2	4083836	1.79E-04	2.72E-05	1.47E-05
1377	257972.9	4083837	1.73E-04	2.64E-05	1.43E-05
1378	257948.5	4083838	1.68E-04	2.56E-05	1.39E-05
1379	257924.2	4083839	1.63E-04	2.49E-05	1.35E-05
1380	257899.9	4083840	1.59E-04	2.42E-05	1.31E-05
1381	257875.5	4083841	1.55E-04	2.36E-05	1.28E-05
1382	257851.2	4083842	1.51E-04	2.30E-05	1.25E-05
1383	257826.9	4083843	1.48E-04	2.25E-05	1.22E-05
1384	257802.5	4083844	1.45E-04	2.21E-05	1.19E-05
1385	257778.2	4083845	1.42E-04	2.16E-05	1.17E-05
1386	257753.9	4083846	1.39E-04	2.12E-05	1.15E-05
1387	257729.5	4083847	1.37E-04	2.09E-05	1.13E-05
1388	257705.2	4083848	1.35E-04	2.05E-05	1.11E-05
1389	257680.9	4083849	1.33E-04	2.02E-05	1.10E-05
1390	257656.5	4083850	1.31E-04	2.00E-05	1.08E-05
1391	257632.2	4083851	1.29E-04	1.97E-05	1.07E-05
1392	257607.9	4083852	1.28E-04	1.94E-05	1.05E-05
1393	257583.5	4083853	1.26E-04	1.92E-05	1.04E-05
1394	257559.2	4083854	1.24E-04	1.89E-05	1.02E-05
1395	257534.9	4083855	1.23E-04	1.87E-05	1.01E-05
1396	257510.6	4083856	1.21E-04	1.84E-05	9.97E-06
1397	258327.7	4083631	1.89E-04	2.89E-05	1.56E-05
1398	258350	4083640	1.97E-04	3.00E-05	1.62E-05
1399	258372.4	4083648	2.05E-04	3.12E-05	1.69E-05
1400	258394.8	4083656	2.13E-04	3.25E-05	1.76E-05
1401	258417.2	4083665	2.22E-04	3.39E-05	1.83E-05
1402	258439.5	4083673	2.32E-04	3.54E-05	1.91E-05
1403	258461.9	4083681	2.43E-04	3.70E-05	2.00E-05

1404	258484.3	4083689	2.54E-04	3.87E-05	2.09E-05
1405	258506.7	4083698	2.66E-04	4.05E-05	2.19E-05
1406	258529	4083706	2.79E-04	4.25E-05	2.30E-05
1407	258551.4	4083714	2.93E-04	4.47E-05	2.42E-05
1408	258573.8	4083723	3.08E-04	4.69E-05	2.54E-05
1409	258596.2	4083731	3.24E-04	4.93E-05	2.67E-05
1410	258618.5	4083739	3.40E-04	5.18E-05	2.80E-05
1411	258640.9	4083747	3.57E-04	5.45E-05	2.95E-05
1412	258663.3	4083756	3.75E-04	5.72E-05	3.09E-05
1413	258685.7	4083764	3.94E-04	6.00E-05	3.25E-05
1414	258708	4083772	4.14E-04	6.30E-05	3.41E-05
1415	258730.4	4083781	4.34E-04	6.61E-05	3.57E-05
1416	258752.8	4083789	4.54E-04	6.92E-05	3.75E-05
1417	258775.2	4083797	4.75E-04	7.24E-05	3.92E-05
1418	258797.6	4083805	4.97E-04	7.57E-05	4.10E-05
1419	258819.9	4083814	5.19E-04	7.91E-05	4.28E-05
1420	258842.3	4083822	5.41E-04	8.25E-05	4.46E-05
1421	258864.7	4083830	5.64E-04	8.59E-05	4.65E-05
1422	258887.1	4083839	5.86E-04	8.93E-05	4.83E-05
1423	258909.4	4083847	6.09E-04	9.27E-05	5.02E-05
1424	258931.8	4083855	6.31E-04	9.61E-05	5.20E-05
1425	258954.2	4083863	6.53E-04	9.95E-05	5.38E-05
1426	258976.6	4083872	6.75E-04	1.03E-04	5.56E-05
1427	258998.9	4083880	6.96E-04	1.06E-04	5.74E-05
1428	259021.3	4083888	7.16E-04	1.09E-04	5.91E-05
1429	259043.7	4083897	7.36E-04	1.12E-04	6.07E-05
1430	259066.1	4083905	7.54E-04	1.15E-04	6.22E-05
1431	259088.4	4083913	7.72E-04	1.18E-04	6.36E-05
1432	259110.8	4083921	7.87E-04	1.20E-04	6.49E-05
1433	259133.2	4083930	8.02E-04	1.22E-04	6.61E-05
1434	259155.6	4083938	8.15E-04	1.24E-04	6.72E-05
1435	259177.9	4083946	8.25E-04	1.26E-04	6.80E-05
1436	259200.3	4083955	8.35E-04	1.27E-04	6.88E-05
1437	259222.7	4083963	8.43E-04	1.28E-04	6.95E-05
1438	259254.9	4083993	8.71E-04	1.33E-04	7.18E-05
1439	259264.7	4084015	8.93E-04	1.36E-04	7.36E-05
1440	259274.6	4084036	9.13E-04	1.39E-04	7.52E-05
1441	259284.4	4084058	9.31E-04	1.42E-04	7.67E-05
1442	259294.2	4084080	9.47E-04	1.44E-04	7.81E-05
1443	259304.1	4084102	9.61E-04	1.46E-04	7.92E-05
1444	259313.9	4084123	9.72E-04	1.48E-04	8.02E-05
1445	259323.7	4084145	9.81E-04	1.49E-04	8.09E-05
1446	259333.6	4084167	9.87E-04	1.50E-04	8.14E-05
1447	259343.4	4084188	9.91E-04	1.51E-04	8.17E-05
1448	259353.3	4084210	9.91E-04	1.51E-04	8.17E-05
1449	259363.1	4084232	9.89E-04	1.51E-04	8.15E-05
1450	259372.9	4084254	9.84E-04	1.50E-04	8.11E-05

1451	259382.8	4084275	9.76E-04	1.49E-04	8.04E-05
1452	259392.6	4084297	9.66E-04	1.47E-04	7.96E-05
1453	259402.4	4084319	9.53E-04	1.45E-04	7.86E-05
1454	259412.3	4084341	9.39E-04	1.43E-04	7.74E-05
1455	259422.1	4084362	9.22E-04	1.41E-04	7.60E-05
1456	259431.9	4084384	9.05E-04	1.38E-04	7.46E-05
1457	259441.8	4084406	8.90E-04	1.36E-04	7.34E-05
1458	259451.6	4084428	8.72E-04	1.33E-04	7.18E-05
1459	259461.4	4084449	8.53E-04	1.30E-04	7.03E-05
1460	259471.3	4084471	8.34E-04	1.27E-04	6.87E-05
1461	259481.1	4084493	8.14E-04	1.24E-04	6.71E-05
1462	259490.9	4084515	7.95E-04	1.21E-04	6.55E-05
1463	259500.8	4084536	7.74E-04	1.18E-04	6.38E-05
1464	259510.6	4084558	7.53E-04	1.15E-04	6.21E-05
1465	259520.4	4084580	7.31E-04	1.11E-04	6.02E-05
1466	259530.3	4084602	7.07E-04	1.08E-04	5.83E-05
1467	259540.1	4084623	6.82E-04	1.04E-04	5.62E-05
1468	259549.9	4084645	6.57E-04	1.00E-04	5.41E-05
1469	259559.8	4084667	6.32E-04	9.62E-05	5.21E-05
1470	259569.6	4084688	6.07E-04	9.25E-05	5.01E-05
1471	259579.5	4084710	5.84E-04	8.90E-05	4.82E-05
1472	259589.3	4084732	5.63E-04	8.58E-05	4.64E-05
1473	259599.1	4084754	5.44E-04	8.29E-05	4.49E-05
1474	259609	4084775	5.26E-04	8.02E-05	4.34E-05
1475	259618.8	4084797	5.10E-04	7.77E-05	4.20E-05
1476	259628.6	4084819	4.94E-04	7.52E-05	4.07E-05
1477	259638.5	4084841	4.78E-04	7.28E-05	3.94E-05
1478	259648.3	4084862	4.62E-04	7.03E-05	3.80E-05
1479	258305.3	4083623	1.82E-04	2.78E-05	1.50E-05
1480	258281	4083624	1.78E-04	2.71E-05	1.47E-05
1481	258256.6	4083625	1.74E-04	2.65E-05	1.43E-05
1482	258232.3	4083626	1.70E-04	2.59E-05	1.40E-05
1483	258208	4083627	1.66E-04	2.53E-05	1.37E-05
1484	258183.6	4083628	1.62E-04	2.47E-05	1.34E-05
1485	258159.3	4083629	1.58E-04	2.41E-05	1.30E-05
1486	258135	4083630	1.54E-04	2.35E-05	1.27E-05
1487	258110.6	4083631	1.51E-04	2.29E-05	1.24E-05
1488	258086.3	4083632	1.47E-04	2.24E-05	1.21E-05
1489	258062	4083633	1.43E-04	2.18E-05	1.18E-05
1490	258037.6	4083634	1.40E-04	2.13E-05	1.15E-05
1491	258013.3	4083635	1.36E-04	2.07E-05	1.12E-05
1492	257989	4083636	1.33E-04	2.02E-05	1.10E-05
1493	257964.6	4083637	1.30E-04	1.98E-05	1.07E-05
1494	257940.3	4083638	1.27E-04	1.93E-05	1.04E-05
1495	257916	4083639	1.24E-04	1.89E-05	1.02E-05
1496	257891.6	4083640	1.21E-04	1.84E-05	9.97E-06
1497	257867.3	4083641	1.18E-04	1.80E-05	9.76E-06

1498	257843	4083642	1.16E-04	1.77E-05	9.55E-06
1499	257818.6	4083643	1.14E-04	1.73E-05	9.37E-06
1500	257794.3	4083644	1.12E-04	1.70E-05	9.20E-06
1501	257770	4083645	1.10E-04	1.67E-05	9.04E-06
1502	257745.7	4083646	1.08E-04	1.64E-05	8.88E-06
1503	257721.3	4083647	1.06E-04	1.62E-05	8.75E-06
1504	257697	4083648	1.05E-04	1.59E-05	8.62E-06
1505	257672.7	4083649	1.03E-04	1.57E-05	8.50E-06
1506	257648.3	4083650	1.02E-04	1.55E-05	8.39E-06
1507	257624	4083651	1.00E-04	1.53E-05	8.28E-06
1508	257599.7	4083652	9.93E-05	1.51E-05	8.18E-06
1509	257575.3	4083653	9.81E-05	1.49E-05	8.09E-06
1510	257551	4083654	9.69E-05	1.48E-05	7.99E-06
1511	257526.7	4083655	9.59E-05	1.46E-05	7.90E-06
1512	257502.3	4083656	9.47E-05	1.44E-05	7.81E-06
1513	258319.7	4083432	1.40E-04	2.13E-05	1.15E-05
1514	258342.3	4083440	1.44E-04	2.20E-05	1.19E-05
1515	258364.8	4083448	1.49E-04	2.27E-05	1.23E-05
1516	258387.4	4083457	1.54E-04	2.35E-05	1.27E-05
1517	258410	4083465	1.59E-04	2.43E-05	1.31E-05
1518	258432.6	4083474	1.65E-04	2.52E-05	1.36E-05
1519	258455.2	4083482	1.71E-04	2.61E-05	1.41E-05
1520	258477.8	4083490	1.78E-04	2.70E-05	1.46E-05
1521	258500.4	4083499	1.84E-04	2.81E-05	1.52E-05
1522	258523	4083507	1.91E-04	2.92E-05	1.58E-05
1523	258545.6	4083515	1.99E-04	3.03E-05	1.64E-05
1524	258568.2	4083524	2.07E-04	3.16E-05	1.71E-05
1525	258590.8	4083532	2.16E-04	3.29E-05	1.78E-05
1526	258613.3	4083540	2.25E-04	3.43E-05	1.86E-05
1527	258635.9	4083549	2.35E-04	3.58E-05	1.94E-05
1528	258658.5	4083557	2.46E-04	3.75E-05	2.03E-05
1529	258681.1	4083566	2.57E-04	3.92E-05	2.12E-05
1530	258703.7	4083574	2.69E-04	4.10E-05	2.22E-05
1531	258726.3	4083582	2.81E-04	4.29E-05	2.32E-05
1532	258748.9	4083591	2.94E-04	4.48E-05	2.43E-05
1533	258771.5	4083599	3.08E-04	4.69E-05	2.54E-05
1534	258794.1	4083607	3.22E-04	4.90E-05	2.65E-05
1535	258816.7	4083616	3.36E-04	5.12E-05	2.77E-05
1536	258839.3	4083624	3.51E-04	5.34E-05	2.89E-05
1537	258861.8	4083632	3.66E-04	5.57E-05	3.02E-05
1538	258884.4	4083641	3.81E-04	5.81E-05	3.14E-05
1539	258907	4083649	3.97E-04	6.05E-05	3.27E-05
1540	258929.6	4083658	4.14E-04	6.30E-05	3.41E-05
1541	258952.2	4083666	4.30E-04	6.55E-05	3.54E-05
1542	258974.8	4083674	4.47E-04	6.81E-05	3.68E-05
1543	258997.4	4083683	4.64E-04	7.06E-05	3.82E-05
1544	259020	4083691	4.81E-04	7.32E-05	3.96E-05

1545	259042.6	4083699	4.98E-04	7.58E-05	4.10E-05
1546	259065.2	4083708	5.15E-04	7.84E-05	4.24E-05
1547	259087.8	4083716	5.31E-04	8.10E-05	4.38E-05
1548	259110.3	4083724	5.48E-04	8.35E-05	4.52E-05
1549	259132.9	4083733	5.64E-04	8.59E-05	4.65E-05
1550	259155.5	4083741	5.80E-04	8.83E-05	4.78E-05
1551	259178.1	4083750	5.95E-04	9.06E-05	4.90E-05
1552	259200.7	4083758	6.09E-04	9.28E-05	5.02E-05
1553	259223.3	4083766	6.22E-04	9.48E-05	5.13E-05
1554	259245.9	4083775	6.34E-04	9.66E-05	5.23E-05
1555	259268.5	4083783	6.45E-04	9.83E-05	5.32E-05
1556	259291.1	4083791	6.55E-04	9.98E-05	5.40E-05
1557	259313.7	4083800	6.64E-04	1.01E-04	5.47E-05
1558	259336.3	4083808	6.72E-04	1.02E-04	5.54E-05
1559	259358.8	4083816	6.78E-04	1.03E-04	5.59E-05
1560	259391.4	4083847	7.01E-04	1.07E-04	5.78E-05
1561	259401.3	4083869	7.17E-04	1.09E-04	5.91E-05
1562	259411.2	4083891	7.33E-04	1.12E-04	6.04E-05
1563	259421.2	4083913	7.47E-04	1.14E-04	6.16E-05
1564	259431.1	4083935	7.61E-04	1.16E-04	6.27E-05
1565	259441	4083956	7.73E-04	1.18E-04	6.37E-05
1566	259450.9	4083978	7.83E-04	1.19E-04	6.46E-05
1567	259460.9	4084000	7.92E-04	1.21E-04	6.53E-05
1568	259470.8	4084022	8.00E-04	1.22E-04	6.59E-05
1569	259480.7	4084044	8.06E-04	1.23E-04	6.64E-05
1570	259490.7	4084066	8.09E-04	1.23E-04	6.67E-05
1571	259500.6	4084088	8.11E-04	1.24E-04	6.69E-05
1572	259510.5	4084110	8.11E-04	1.24E-04	6.68E-05
1573	259520.4	4084132	8.09E-04	1.23E-04	6.67E-05
1574	259530.4	4084154	8.05E-04	1.23E-04	6.63E-05
1575	259540.3	4084176	7.99E-04	1.22E-04	6.58E-05
1576	259550.2	4084198	7.91E-04	1.20E-04	6.52E-05
1577	259560.2	4084220	7.82E-04	1.19E-04	6.44E-05
1578	259570.1	4084242	7.71E-04	1.17E-04	6.35E-05
1579	259580	4084264	7.59E-04	1.16E-04	6.25E-05
1580	259590	4084286	7.46E-04	1.14E-04	6.15E-05
1581	259599.9	4084308	7.32E-04	1.12E-04	6.04E-05
1582	259609.8	4084330	7.19E-04	1.09E-04	5.92E-05
1583	259619.7	4084352	7.05E-04	1.07E-04	5.81E-05
1584	259629.7	4084374	6.92E-04	1.05E-04	5.70E-05
1585	259639.6	4084395	6.79E-04	1.03E-04	5.60E-05
1586	259649.5	4084417	6.69E-04	1.02E-04	5.51E-05
1587	259659.5	4084439	6.56E-04	9.99E-05	5.41E-05
1588	259669.4	4084461	6.43E-04	9.80E-05	5.30E-05
1589	259679.3	4084483	6.29E-04	9.58E-05	5.19E-05
1590	259689.2	4084505	6.14E-04	9.36E-05	5.06E-05
1591	259699.2	4084527	5.99E-04	9.12E-05	4.93E-05

1592	259709.1	4084549	5.81E-04	8.86E-05	4.79E-05
1593	259719	4084571	5.63E-04	8.58E-05	4.64E-05
1594	259729	4084593	5.44E-04	8.29E-05	4.49E-05
1595	259738.9	4084615	5.25E-04	8.00E-05	4.33E-05
1596	259748.8	4084637	5.06E-04	7.72E-05	4.18E-05
1597	259758.8	4084659	4.89E-04	7.45E-05	4.03E-05
1598	259768.7	4084681	4.73E-04	7.20E-05	3.90E-05
1599	259778.6	4084703	4.58E-04	6.98E-05	3.78E-05
1600	259788.5	4084725	4.45E-04	6.78E-05	3.67E-05
1601	259798.5	4084747	4.33E-04	6.60E-05	3.57E-05
1602	259808.4	4084769	4.22E-04	6.43E-05	3.48E-05
1603	259818.3	4084791	4.11E-04	6.26E-05	3.39E-05
1604	259828.3	4084812	4.00E-04	6.09E-05	3.30E-05
1605	259838.2	4084834	3.89E-04	5.92E-05	3.20E-05
1606	259848.1	4084856	3.77E-04	5.74E-05	3.11E-05
1607	258297.1	4083423	1.36E-04	2.07E-05	1.12E-05
1608	258272.7	4083424	1.33E-04	2.02E-05	1.10E-05
1609	258248.4	4083425	1.30E-04	1.99E-05	1.07E-05
1610	258224.1	4083426	1.28E-04	1.95E-05	1.06E-05
1611	258199.7	4083427	1.26E-04	1.91E-05	1.04E-05
1612	258175.4	4083428	1.23E-04	1.88E-05	1.02E-05
1613	258151.1	4083429	1.21E-04	1.85E-05	9.99E-06
1614	258126.7	4083430	1.19E-04	1.81E-05	9.81E-06
1615	258102.4	4083431	1.17E-04	1.78E-05	9.63E-06
1616	258078.1	4083432	1.15E-04	1.75E-05	9.44E-06
1617	258053.8	4083433	1.12E-04	1.71E-05	9.27E-06
1618	258029.4	4083434	1.10E-04	1.68E-05	9.09E-06
1619	258005.1	4083435	1.08E-04	1.65E-05	8.92E-06
1620	257980.8	4083436	1.06E-04	1.61E-05	8.73E-06
1621	257956.4	4083437	1.04E-04	1.58E-05	8.56E-06
1622	257932.1	4083438	1.02E-04	1.55E-05	8.40E-06
1623	257907.8	4083439	9.99E-05	1.52E-05	8.23E-06
1624	257883.4	4083440	9.80E-05	1.49E-05	8.07E-06
1625	257859.1	4083441	9.62E-05	1.47E-05	7.93E-06
1626	257834.8	4083442	9.44E-05	1.44E-05	7.78E-06
1627	257810.4	4083443	9.28E-05	1.41E-05	7.65E-06
1628	257786.1	4083444	9.11E-05	1.39E-05	7.51E-06
1629	257761.8	4083445	8.97E-05	1.37E-05	7.39E-06
1630	257737.4	4083446	8.82E-05	1.34E-05	7.27E-06
1631	257713.1	4083447	8.68E-05	1.32E-05	7.16E-06
1632	257688.8	4083448	8.55E-05	1.30E-05	7.05E-06
1633	257664.4	4083449	8.43E-05	1.28E-05	6.95E-06
1634	257640.1	4083450	8.31E-05	1.27E-05	6.85E-06
1635	257615.8	4083451	8.19E-05	1.25E-05	6.75E-06
1636	257591.4	4083452	8.09E-05	1.23E-05	6.67E-06
1637	257567.1	4083453	7.99E-05	1.22E-05	6.58E-06
1638	257542.8	4083454	7.88E-05	1.20E-05	6.50E-06

1639	257518.5	4083455	7.78E-05	1.19E-05	6.41E-06
1640	257494.1	4083456	7.69E-05	1.17E-05	6.34E-06
1641	257530.8	4084956	5.88E-03	8.96E-04	4.85E-04
1642	257532.4	4085001	1.56E-02	2.37E-03	1.28E-03
1643	257534.1	4085045	2.48E-02	3.77E-03	2.04E-03
1644	257534.9	4085067	2.77E-02	4.22E-03	2.28E-03
1645	257536.5	4085112	3.11E-02	4.74E-03	2.57E-03
1646	257538.2	4085157	3.01E-02	4.59E-03	2.48E-03
1647	257512.4	4084939	3.68E-03	5.60E-04	3.03E-04
1648	257506.6	4084979	6.17E-03	9.40E-04	5.09E-04
1649	257508.2	4085024	1.18E-02	1.79E-03	9.70E-04
1650	257509.9	4085068	1.68E-02	2.56E-03	1.38E-03
1651	257511.5	4085113	1.98E-02	3.02E-03	1.64E-03
1652	257513.2	4085157	2.04E-02	3.10E-03	1.68E-03
1653	257487.4	4084940	3.03E-03	4.62E-04	2.50E-04
1654	257518	4084896	2.43E-03	3.70E-04	2.00E-04
1655	257481.6	4084980	4.55E-03	6.94E-04	3.75E-04
1656	257483.3	4085025	7.73E-03	1.18E-03	6.38E-04
1657	257484.9	4085069	1.13E-02	1.72E-03	9.30E-04
1658	257486.6	4085114	1.38E-02	2.11E-03	1.14E-03
1659	257488.2	4085158	1.49E-02	2.26E-03	1.22E-03
1660	257462.4	4084941	2.57E-03	3.92E-04	2.12E-04
1661	257475.7	4084905	2.06E-03	3.13E-04	1.70E-04
1662	257499.6	4084879	1.91E-03	2.90E-04	1.57E-04
1663	257456.6	4084981	3.61E-03	5.50E-04	2.98E-04
1664	257458.3	4085026	5.60E-03	8.54E-04	4.62E-04
1665	257459.1	4085048	6.84E-03	1.04E-03	5.64E-04
1666	257460.8	4085092	9.23E-03	1.41E-03	7.61E-04
1667	257462.4	4085137	1.09E-02	1.66E-03	8.97E-04
1668	257412.5	4084943	1.96E-03	2.98E-04	1.61E-04
1669	257425.7	4084907	1.63E-03	2.48E-04	1.34E-04
1670	257439	4084871	1.38E-03	2.10E-04	1.14E-04
1671	257462.9	4084845	1.30E-03	1.98E-04	1.07E-04
1672	257497.6	4084829	1.35E-03	2.06E-04	1.11E-04
1673	257406.7	4084983	2.54E-03	3.87E-04	2.10E-04
1674	257408.3	4085027	3.51E-03	5.35E-04	2.90E-04
1675	257410	4085072	4.78E-03	7.29E-04	3.94E-04
1676	257411.6	4085117	6.10E-03	9.30E-04	5.03E-04
1677	257413.3	4085161	7.07E-03	1.08E-03	5.83E-04
1678	257363.4	4084942	1.55E-03	2.36E-04	1.28E-04
1679	257378.6	4084901	1.29E-03	1.97E-04	1.07E-04
1680	257393.7	4084860	1.10E-03	1.68E-04	9.08E-05
1681	257428.7	4084810	9.66E-04	1.47E-04	7.97E-05
1682	257468.3	4084792	9.96E-04	1.52E-04	8.21E-05
1683	257507.9	4084774	1.03E-03	1.57E-04	8.49E-05
1684	257356.7	4084985	1.95E-03	2.96E-04	1.60E-04
1685	257358.3	4085029	2.52E-03	3.84E-04	2.08E-04

1686	257360	4085074	3.22E-03	4.91E-04	2.66E-04
1687	257361.7	4085118	4.03E-03	6.14E-04	3.32E-04
1688	257363.3	4085163	4.77E-03	7.26E-04	3.93E-04
1689	257313.3	4084944	1.29E-03	1.96E-04	1.06E-04
1690	257328	4084905	1.10E-03	1.68E-04	9.07E-05
1691	257342.7	4084865	9.55E-04	1.45E-04	7.87E-05
1692	257357.5	4084825	8.40E-04	1.28E-04	6.93E-05
1693	257391.4	4084776	7.53E-04	1.15E-04	6.21E-05
1694	257429.9	4084759	7.71E-04	1.17E-04	6.36E-05
1695	257468.5	4084741	7.88E-04	1.20E-04	6.49E-05
1696	257507	4084723	8.09E-04	1.23E-04	6.67E-05
1697	257306.7	4084987	1.57E-03	2.39E-04	1.29E-04
1698	257307.6	4085009	1.75E-03	2.67E-04	1.44E-04
1699	257309.2	4085053	2.15E-03	3.28E-04	1.78E-04
1700	257310.9	4085098	2.62E-03	3.99E-04	2.16E-04
1701	257312.5	4085143	3.13E-03	4.77E-04	2.58E-04
1702	257263.2	4084947	1.10E-03	1.67E-04	9.04E-05
1703	257277.6	4084908	9.51E-04	1.45E-04	7.84E-05
1704	257292.1	4084869	8.36E-04	1.27E-04	6.89E-05
1705	257306.6	4084829	7.45E-04	1.13E-04	6.14E-05
1706	257321	4084790	6.69E-04	1.02E-04	5.52E-05
1707	257354.4	4084743	6.09E-04	9.28E-05	5.02E-05
1708	257392.2	4084725	6.20E-04	9.45E-05	5.11E-05
1709	257430	4084708	6.30E-04	9.60E-05	5.19E-05
1710	257467.8	4084690	6.41E-04	9.77E-05	5.28E-05
1711	257505.6	4084673	6.56E-04	9.99E-05	5.41E-05
1712	257256.8	4084988	1.31E-03	1.99E-04	1.08E-04
1713	257258.4	4085033	1.58E-03	2.40E-04	1.30E-04
1714	257260.1	4085078	1.86E-03	2.84E-04	1.54E-04
1715	257261.7	4085122	2.18E-03	3.32E-04	1.79E-04
1716	257263.4	4085167	2.53E-03	3.85E-04	2.08E-04
1717	257163.6	4084949	8.40E-04	1.28E-04	6.92E-05
1718	257178.7	4084909	7.38E-04	1.12E-04	6.08E-05
1719	257193.9	4084868	6.53E-04	9.95E-05	5.38E-05
1720	257209	4084827	5.87E-04	8.94E-05	4.83E-05
1721	257224.2	4084786	5.32E-04	8.11E-05	4.39E-05
1722	257239.3	4084745	4.86E-04	7.41E-05	4.01E-05
1723	257254.5	4084704	4.45E-04	6.77E-05	3.66E-05
1724	257281.9	4084674	4.28E-04	6.51E-05	3.52E-05
1725	257321.5	4084656	4.33E-04	6.60E-05	3.57E-05
1726	257361.1	4084638	4.39E-04	6.69E-05	3.62E-05
1727	257400.7	4084619	4.45E-04	6.77E-05	3.66E-05
1728	257440.3	4084601	4.50E-04	6.86E-05	3.71E-05
1729	257479.9	4084583	4.59E-04	6.99E-05	3.78E-05
1730	257156.8	4084992	9.74E-04	1.48E-04	8.03E-05
1731	257158.5	4085037	1.13E-03	1.72E-04	9.33E-05
1732	257160.1	4085081	1.28E-03	1.95E-04	1.06E-04

1733	257161.8	4085126	1.42E-03	2.17E-04	1.17E-04
1734	257162.6	4085148	1.50E-03	2.28E-04	1.24E-04
1735	257063.4	4084954	6.82E-04	1.04E-04	5.62E-05
1736	257078.2	4084914	6.09E-04	9.28E-05	5.02E-05
1737	257092.9	4084874	5.46E-04	8.32E-05	4.50E-05
1738	257107.6	4084834	4.94E-04	7.53E-05	4.07E-05
1739	257122.4	4084795	4.52E-04	6.88E-05	3.72E-05
1740	257137.1	4084755	4.16E-04	6.33E-05	3.43E-05
1741	257151.8	4084715	3.85E-04	5.87E-05	3.18E-05
1742	257166.6	4084675	3.58E-04	5.45E-05	2.95E-05
1743	257181.3	4084635	3.32E-04	5.05E-05	2.73E-05
1744	257207.9	4084607	3.21E-04	4.89E-05	2.64E-05
1745	257246.4	4084589	3.24E-04	4.94E-05	2.67E-05
1746	257284.9	4084571	3.28E-04	5.00E-05	2.71E-05
1747	257323.4	4084553	3.33E-04	5.07E-05	2.74E-05
1748	257361.9	4084536	3.37E-04	5.13E-05	2.78E-05
1749	257400.4	4084518	3.41E-04	5.19E-05	2.81E-05
1750	257438.9	4084500	3.45E-04	5.25E-05	2.84E-05
1751	257477.4	4084482	3.49E-04	5.32E-05	2.88E-05
1752	257056.9	4084996	7.73E-04	1.18E-04	6.37E-05
1753	257057.7	4085018	8.26E-04	1.26E-04	6.81E-05
1754	257059.4	4085063	9.23E-04	1.41E-04	7.61E-05
1755	257061	4085107	1.01E-03	1.53E-04	8.29E-05
1756	257062.7	4085152	1.08E-03	1.65E-04	8.90E-05
1757	256963.7	4084957	5.72E-04	8.71E-05	4.71E-05
1758	256978.9	4084916	5.15E-04	7.84E-05	4.24E-05
1759	256994	4084875	4.64E-04	7.08E-05	3.83E-05
1760	257009.2	4084834	4.23E-04	6.45E-05	3.49E-05
1761	257024.3	4084793	3.88E-04	5.91E-05	3.20E-05
1762	257039.5	4084752	3.57E-04	5.44E-05	2.94E-05
1763	257054.6	4084711	3.31E-04	5.04E-05	2.73E-05
1764	257069.8	4084670	3.08E-04	4.70E-05	2.54E-05
1765	257084.9	4084630	2.88E-04	4.39E-05	2.38E-05
1766	257100.1	4084589	2.70E-04	4.11E-05	2.22E-05
1767	257135	4084539	2.53E-04	3.86E-05	2.09E-05
1768	257174.6	4084520	2.56E-04	3.89E-05	2.11E-05
1769	257214.2	4084502	2.59E-04	3.95E-05	2.14E-05
1770	257253.8	4084484	2.64E-04	4.02E-05	2.17E-05
1771	257293.5	4084465	2.68E-04	4.08E-05	2.21E-05
1772	257333.1	4084447	2.71E-04	4.12E-05	2.23E-05
1773	257372.7	4084429	2.72E-04	4.15E-05	2.24E-05
1774	257412.3	4084410	2.73E-04	4.16E-05	2.25E-05
1775	257451.9	4084392	2.74E-04	4.17E-05	2.26E-05
1776	257491.5	4084374	2.75E-04	4.19E-05	2.26E-05
1777	256957	4085000	6.40E-04	9.75E-05	5.27E-05
1778	256958.6	4085044	7.12E-04	1.09E-04	5.87E-05
1779	256960.3	4085089	7.72E-04	1.18E-04	6.36E-05

1780	256961.9	4085133	8.18E-04	1.25E-04	6.74E-05
1781	256963.6	4085178	8.61E-04	1.31E-04	7.10E-05
1782	256863.9	4084960	4.93E-04	7.50E-05	4.06E-05
1783	256879.4	4084918	4.46E-04	6.79E-05	3.68E-05
1784	256894.9	4084877	4.05E-04	6.17E-05	3.34E-05
1785	256910.3	4084835	3.71E-04	5.65E-05	3.06E-05
1786	256925.8	4084793	3.42E-04	5.22E-05	2.82E-05
1787	256941.3	4084751	3.17E-04	4.82E-05	2.61E-05
1788	256956.7	4084710	2.93E-04	4.46E-05	2.41E-05
1789	256972.2	4084668	2.72E-04	4.14E-05	2.24E-05
1790	256987.7	4084626	2.54E-04	3.87E-05	2.09E-05
1791	257003.1	4084584	2.39E-04	3.64E-05	1.97E-05
1792	257018.6	4084542	2.26E-04	3.44E-05	1.86E-05
1793	257034.1	4084501	2.13E-04	3.24E-05	1.75E-05
1794	257062	4084470	2.07E-04	3.16E-05	1.71E-05
1795	257102.5	4084452	2.10E-04	3.19E-05	1.73E-05
1796	257142.9	4084433	2.13E-04	3.25E-05	1.76E-05
1797	257183.3	4084414	2.17E-04	3.31E-05	1.79E-05
1798	257223.7	4084396	2.21E-04	3.37E-05	1.82E-05
1799	257264.2	4084377	2.24E-04	3.41E-05	1.84E-05
1800	257304.6	4084358	2.25E-04	3.42E-05	1.85E-05
1801	257345	4084340	2.24E-04	3.41E-05	1.84E-05
1802	257385.5	4084321	2.22E-04	3.38E-05	1.83E-05
1803	257425.9	4084302	2.20E-04	3.36E-05	1.82E-05
1804	257466.3	4084284	2.20E-04	3.35E-05	1.81E-05
1805	256857	4085003	5.46E-04	8.31E-05	4.50E-05
1806	256858.7	4085048	5.99E-04	9.13E-05	4.94E-05
1807	256860.3	4085092	6.41E-04	9.76E-05	5.28E-05
1808	256862	4085137	6.71E-04	1.02E-04	5.53E-05
1809	256863.6	4085182	6.98E-04	1.06E-04	5.75E-05
1810	256664	4084968	3.89E-04	5.92E-05	3.20E-05
1811	256679.4	4084926	3.56E-04	5.42E-05	2.94E-05
1812	256694.8	4084884	3.26E-04	4.97E-05	2.69E-05
1813	256710.2	4084843	3.01E-04	4.59E-05	2.48E-05
1814	256725.6	4084801	2.82E-04	4.29E-05	2.32E-05
1815	256741	4084760	2.65E-04	4.03E-05	2.18E-05
1816	256756.4	4084718	2.49E-04	3.79E-05	2.05E-05
1817	256771.8	4084677	2.32E-04	3.54E-05	1.92E-05
1818	256787.2	4084635	2.16E-04	3.29E-05	1.78E-05
1819	256802.6	4084593	2.01E-04	3.06E-05	1.65E-05
1820	256818	4084552	1.88E-04	2.86E-05	1.55E-05
1821	256833.4	4084510	1.78E-04	2.71E-05	1.47E-05
1822	256848.8	4084469	1.70E-04	2.59E-05	1.40E-05
1823	256864.2	4084427	1.63E-04	2.49E-05	1.35E-05
1824	256879.6	4084386	1.57E-04	2.40E-05	1.30E-05
1825	256915.1	4084335	1.52E-04	2.32E-05	1.26E-05
1826	256955.3	4084316	1.54E-04	2.35E-05	1.27E-05

1827	256995.6	4084298	1.57E-04	2.39E-05	1.29E-05
1828	257035.8	4084279	1.60E-04	2.43E-05	1.32E-05
1829	257076.1	4084260	1.63E-04	2.48E-05	1.34E-05
1830	257116.3	4084242	1.65E-04	2.51E-05	1.36E-05
1831	257156.6	4084223	1.65E-04	2.52E-05	1.36E-05
1832	257196.8	4084205	1.64E-04	2.51E-05	1.36E-05
1833	257237.1	4084186	1.62E-04	2.47E-05	1.34E-05
1834	257277.3	4084167	1.60E-04	2.43E-05	1.32E-05
1835	257317.5	4084149	1.57E-04	2.39E-05	1.29E-05
1836	257357.8	4084130	1.55E-04	2.36E-05	1.28E-05
1837	257398	4084112	1.54E-04	2.35E-05	1.27E-05
1838	257438.3	4084093	1.55E-04	2.36E-05	1.28E-05
1839	257478.5	4084074	1.56E-04	2.38E-05	1.29E-05
1840	256657.2	4085011	4.22E-04	6.44E-05	3.48E-05
1841	256658.8	4085055	4.54E-04	6.92E-05	3.75E-05
1842	256660.5	4085100	4.77E-04	7.26E-05	3.93E-05
1843	256662.1	4085144	4.92E-04	7.50E-05	4.06E-05
1844	256663	4085167	4.98E-04	7.59E-05	4.11E-05
1845	256464.2	4084975	3.22E-04	4.91E-05	2.66E-05
1846	256479.5	4084934	2.98E-04	4.55E-05	2.46E-05
1847	256494.9	4084892	2.76E-04	4.20E-05	2.27E-05
1848	256510.2	4084851	2.55E-04	3.89E-05	2.11E-05
1849	256525.6	4084809	2.39E-04	3.65E-05	1.97E-05
1850	256540.9	4084768	2.27E-04	3.45E-05	1.87E-05
1851	256556.3	4084726	2.16E-04	3.29E-05	1.78E-05
1852	256571.6	4084685	2.06E-04	3.14E-05	1.70E-05
1853	256587	4084643	1.95E-04	2.97E-05	1.61E-05
1854	256602.3	4084602	1.83E-04	2.78E-05	1.51E-05
1855	256617.7	4084561	1.70E-04	2.59E-05	1.40E-05
1856	256633	4084519	1.58E-04	2.40E-05	1.30E-05
1857	256648.4	4084478	1.47E-04	2.25E-05	1.22E-05
1858	256663.7	4084436	1.40E-04	2.13E-05	1.15E-05
1859	256679.1	4084395	1.34E-04	2.05E-05	1.11E-05
1860	256694.4	4084353	1.30E-04	1.99E-05	1.07E-05
1861	256709.8	4084312	1.27E-04	1.94E-05	1.05E-05
1862	256725.1	4084270	1.25E-04	1.90E-05	1.03E-05
1863	256740.5	4084229	1.22E-04	1.86E-05	1.01E-05
1864	256768.2	4084199	1.22E-04	1.85E-05	1.00E-05
1865	256808.3	4084180	1.23E-04	1.87E-05	1.01E-05
1866	256848.5	4084162	1.25E-04	1.90E-05	1.03E-05
1867	256888.6	4084143	1.26E-04	1.92E-05	1.04E-05
1868	256928.7	4084125	1.28E-04	1.95E-05	1.06E-05
1869	256968.8	4084106	1.29E-04	1.97E-05	1.07E-05
1870	257009	4084088	1.30E-04	1.98E-05	1.07E-05
1871	257049.1	4084069	1.29E-04	1.97E-05	1.07E-05
1872	257089.2	4084051	1.28E-04	1.95E-05	1.06E-05
1873	257129.3	4084032	1.26E-04	1.92E-05	1.04E-05

1874	257169.5	4084014	1.24E-04	1.89E-05	1.02E-05
1875	257209.6	4083995	1.22E-04	1.86E-05	1.01E-05
1876	257249.7	4083977	1.21E-04	1.84E-05	9.96E-06
1877	257289.9	4083958	1.20E-04	1.82E-05	9.87E-06
1878	257330	4083939	1.19E-04	1.82E-05	9.82E-06
1879	257370.1	4083921	1.19E-04	1.82E-05	9.82E-06
1880	257410.2	4083902	1.19E-04	1.82E-05	9.85E-06
1881	257450.4	4083884	1.20E-04	1.83E-05	9.89E-06
1882	256457.3	4085018	3.45E-04	5.26E-05	2.85E-05
1883	256459	4085063	3.66E-04	5.57E-05	3.02E-05
1884	256460.6	4085107	3.79E-04	5.78E-05	3.13E-05
1885	256462.3	4085152	3.88E-04	5.91E-05	3.20E-05
1886	256463.9	4085196	3.95E-04	6.01E-05	3.25E-05
1887	256264.3	4084983	2.76E-04	4.20E-05	2.27E-05
1888	256279.6	4084941	2.58E-04	3.93E-05	2.13E-05
1889	256294.9	4084900	2.40E-04	3.66E-05	1.98E-05
1890	256310.2	4084858	2.24E-04	3.41E-05	1.84E-05
1891	256325.6	4084817	2.10E-04	3.19E-05	1.73E-05
1892	256340.9	4084776	1.99E-04	3.03E-05	1.64E-05
1893	256356.2	4084734	1.90E-04	2.89E-05	1.56E-05
1894	256371.5	4084693	1.83E-04	2.78E-05	1.50E-05
1895	256386.8	4084652	1.76E-04	2.68E-05	1.45E-05
1896	256402.2	4084610	1.68E-04	2.56E-05	1.39E-05
1897	256417.5	4084569	1.60E-04	2.44E-05	1.32E-05
1898	256432.8	4084527	1.50E-04	2.29E-05	1.24E-05
1899	256448.1	4084486	1.39E-04	2.12E-05	1.15E-05
1900	256463.4	4084445	1.29E-04	1.97E-05	1.07E-05
1901	256478.7	4084403	1.21E-04	1.84E-05	9.96E-06
1902	256494.1	4084362	1.14E-04	1.74E-05	9.41E-06
1903	256509.4	4084321	1.10E-04	1.67E-05	9.04E-06
1904	256524.7	4084279	1.07E-04	1.63E-05	8.82E-06
1905	256540	4084238	1.06E-04	1.61E-05	8.70E-06
1906	256555.3	4084197	1.05E-04	1.59E-05	8.62E-06
1907	256570.7	4084155	1.04E-04	1.58E-05	8.56E-06
1908	256586	4084114	1.03E-04	1.57E-05	8.50E-06
1909	256621.3	4084063	1.02E-04	1.56E-05	8.44E-06
1910	256661.4	4084045	1.03E-04	1.57E-05	8.51E-06
1911	256701.4	4084026	1.04E-04	1.58E-05	8.56E-06
1912	256741.5	4084008	1.04E-04	1.59E-05	8.61E-06
1913	256781.5	4083989	1.05E-04	1.60E-05	8.66E-06
1914	256821.6	4083971	1.06E-04	1.61E-05	8.70E-06
1915	256861.6	4083952	1.06E-04	1.61E-05	8.71E-06
1916	256901.6	4083934	1.06E-04	1.61E-05	8.70E-06
1917	256941.7	4083915	1.05E-04	1.60E-05	8.65E-06
1918	256981.7	4083897	1.04E-04	1.58E-05	8.57E-06
1919	257021.8	4083878	1.03E-04	1.57E-05	8.49E-06
1920	257061.8	4083860	1.02E-04	1.55E-05	8.40E-06

1921	257101.9	4083841	1.01E-04	1.54E-05	8.33E-06
1922	257141.9	4083823	1.00E-04	1.53E-05	8.26E-06
1923	257182	4083804	9.93E-05	1.51E-05	8.18E-06
1924	257222	4083786	9.84E-05	1.50E-05	8.11E-06
1925	257262.1	4083767	9.77E-05	1.49E-05	8.05E-06
1926	257302.1	4083749	9.69E-05	1.48E-05	7.99E-06
1927	257342.2	4083730	9.62E-05	1.47E-05	7.93E-06
1928	257382.2	4083712	9.56E-05	1.46E-05	7.88E-06
1929	257422.2	4083693	9.51E-05	1.45E-05	7.84E-06
1930	257462.3	4083675	9.48E-05	1.44E-05	7.82E-06
1931	256257.5	4085025	2.92E-04	4.45E-05	2.41E-05
1932	256259.1	4085070	3.06E-04	4.67E-05	2.52E-05
1933	256260.8	4085115	3.15E-04	4.80E-05	2.60E-05
1934	256261.6	4085137	3.18E-04	4.84E-05	2.62E-05
1935	256263.2	4085181	3.22E-04	4.90E-05	2.65E-05
1936	256064.4	4084990	2.41E-04	3.68E-05	1.99E-05
1937	256079.7	4084949	2.28E-04	3.48E-05	1.88E-05
1938	256095	4084907	2.14E-04	3.26E-05	1.76E-05
1939	256110.3	4084866	2.00E-04	3.05E-05	1.65E-05
1940	256125.6	4084825	1.88E-04	2.87E-05	1.55E-05
1941	256140.9	4084783	1.78E-04	2.71E-05	1.47E-05
1942	256156.2	4084742	1.70E-04	2.59E-05	1.40E-05
1943	256171.5	4084701	1.64E-04	2.49E-05	1.35E-05
1944	256186.8	4084660	1.58E-04	2.41E-05	1.31E-05
1945	256202.1	4084618	1.54E-04	2.34E-05	1.27E-05
1946	256217.4	4084577	1.48E-04	2.26E-05	1.22E-05
1947	256232.7	4084536	1.42E-04	2.17E-05	1.17E-05
1948	256248	4084494	1.35E-04	2.06E-05	1.11E-05
1949	256263.3	4084453	1.27E-04	1.93E-05	1.04E-05
1950	256278.6	4084412	1.18E-04	1.80E-05	9.72E-06
1951	256293.9	4084370	1.09E-04	1.67E-05	9.01E-06
1952	256309.2	4084329	1.02E-04	1.55E-05	8.40E-06
1953	256324.4	4084288	9.62E-05	1.47E-05	7.93E-06
1954	256339.7	4084246	9.22E-05	1.40E-05	7.60E-06
1955	256355	4084205	8.98E-05	1.37E-05	7.40E-06
1956	256370.3	4084164	8.89E-05	1.35E-05	7.33E-06
1957	256385.6	4084123	8.89E-05	1.35E-05	7.33E-06
1958	256400.9	4084081	8.94E-05	1.36E-05	7.37E-06
1959	256416.2	4084040	8.97E-05	1.37E-05	7.39E-06
1960	256431.5	4083999	8.98E-05	1.37E-05	7.40E-06
1961	256446.8	4083957	8.92E-05	1.36E-05	7.35E-06
1962	256474.5	4083927	8.91E-05	1.36E-05	7.34E-06
1963	256514.4	4083909	8.94E-05	1.36E-05	7.37E-06
1964	256554.4	4083890	8.94E-05	1.36E-05	7.37E-06
1965	256594.4	4083872	8.91E-05	1.36E-05	7.34E-06
1966	256634.4	4083854	8.88E-05	1.35E-05	7.32E-06
1967	256674.4	4083835	8.86E-05	1.35E-05	7.30E-06

1968	256714.4	4083817	8.85E-05	1.35E-05	7.29E-06
1969	256754.4	4083798	8.83E-05	1.35E-05	7.28E-06
1970	256794.4	4083780	8.80E-05	1.34E-05	7.26E-06
1971	256834.3	4083761	8.77E-05	1.34E-05	7.23E-06
1972	256874.3	4083743	8.76E-05	1.33E-05	7.22E-06
1973	256914.3	4083724	8.73E-05	1.33E-05	7.19E-06
1974	256954.3	4083706	8.70E-05	1.33E-05	7.17E-06
1975	256994.3	4083687	8.67E-05	1.32E-05	7.15E-06
1976	257034.3	4083669	8.62E-05	1.31E-05	7.11E-06
1977	257074.3	4083650	8.57E-05	1.30E-05	7.06E-06
1978	257114.2	4083632	8.49E-05	1.29E-05	7.00E-06
1979	257154.2	4083613	8.40E-05	1.28E-05	6.93E-06
1980	257194.2	4083595	8.28E-05	1.26E-05	6.83E-06
1981	257234.2	4083576	8.15E-05	1.24E-05	6.72E-06
1982	257274.2	4083558	8.02E-05	1.22E-05	6.61E-06
1983	257314.2	4083539	7.88E-05	1.20E-05	6.50E-06
1984	257354.2	4083521	7.78E-05	1.19E-05	6.41E-06
1985	257394.2	4083503	7.71E-05	1.17E-05	6.35E-06
1986	257434.1	4083484	7.68E-05	1.17E-05	6.33E-06
1987	256057.6	4085033	2.53E-04	3.86E-05	2.09E-05
1988	256059.2	4085077	2.63E-04	4.01E-05	2.17E-05
1989	256060.9	4085122	2.69E-04	4.10E-05	2.22E-05
1990	256062.5	4085167	2.72E-04	4.15E-05	2.24E-05
1991	256064.2	4085211	2.74E-04	4.18E-05	2.26E-05
1992	257564.3	4085181	3.31E-02	5.04E-03	2.72E-03
1993	257588.6	4085180	3.90E-02	5.94E-03	3.21E-03
1994	257612.8	4085178	4.25E-02	6.47E-03	3.50E-03
1995	257637.1	4085177	4.47E-02	6.80E-03	3.68E-03
1996	257661.4	4085176	4.61E-02	7.03E-03	3.80E-03
1997	257685.7	4085175	4.72E-02	7.18E-03	3.89E-03
1998	257710	4085174	4.79E-02	7.30E-03	3.95E-03
1999	257734.2	4085173	4.85E-02	7.38E-03	4.00E-03
2000	257758.5	4085172	4.89E-02	7.45E-03	4.03E-03
2001	257782.8	4085171	4.92E-02	7.49E-03	4.05E-03
2002	257807.1	4085170	4.94E-02	7.53E-03	4.07E-03
2003	257831.4	4085169	4.95E-02	7.55E-03	4.08E-03
2004	257855.7	4085168	4.96E-02	7.56E-03	4.09E-03
2005	257879.9	4085167	4.97E-02	7.57E-03	4.10E-03
2006	257904.2	4085166	4.97E-02	7.57E-03	4.09E-03
2007	257928.5	4085164	4.96E-02	7.56E-03	4.09E-03
2008	257952.8	4085163	4.95E-02	7.55E-03	4.08E-03
2009	257977.1	4085162	4.94E-02	7.52E-03	4.07E-03
2010	258001.3	4085161	4.92E-02	7.50E-03	4.06E-03
2011	258025.6	4085160	4.90E-02	7.46E-03	4.04E-03
2012	258049.9	4085159	4.87E-02	7.42E-03	4.01E-03
2013	258074.2	4085158	4.83E-02	7.36E-03	3.98E-03
2014	258098.5	4085157	4.70E-02	7.17E-03	3.88E-03

2015	258122.8	4085156	4.64E-02	7.07E-03	3.83E-03
2016	258147	4085155	4.57E-02	6.96E-03	3.77E-03
2017	258171.3	4085154	4.48E-02	6.82E-03	3.69E-03
2018	258195.6	4085153	4.36E-02	6.64E-03	3.59E-03
2019	258219.9	4085152	4.21E-02	6.41E-03	3.47E-03
2020	258244.2	4085150	4.01E-02	6.11E-03	3.31E-03
2021	258268.4	4085149	3.75E-02	5.71E-03	3.09E-03
2022	258292.7	4085148	3.39E-02	5.16E-03	2.79E-03
2023	258317	4085147	2.89E-02	4.41E-03	2.38E-03
2024	258341.3	4085146	2.25E-02	3.43E-03	1.86E-03
2025	258365.6	4085145	1.62E-02	2.47E-03	1.34E-03
2026	257547.3	4085199	2.29E-02	3.49E-03	1.89E-03
2027	257589.7	4085204	2.66E-02	4.06E-03	2.19E-03
2028	257613.9	4085203	2.86E-02	4.36E-03	2.36E-03
2029	257638.2	4085202	3.00E-02	4.57E-03	2.47E-03
2030	257662.5	4085201	3.10E-02	4.72E-03	2.56E-03
2031	257686.8	4085200	3.17E-02	4.84E-03	2.62E-03
2032	257711.1	4085199	3.23E-02	4.92E-03	2.66E-03
2033	257735.4	4085198	3.28E-02	4.99E-03	2.70E-03
2034	257759.6	4085197	3.31E-02	5.04E-03	2.73E-03
2035	257783.9	4085196	3.33E-02	5.08E-03	2.75E-03
2036	257808.2	4085195	3.35E-02	5.11E-03	2.76E-03
2037	257832.5	4085194	3.37E-02	5.13E-03	2.78E-03
2038	257856.8	4085193	3.38E-02	5.14E-03	2.78E-03
2039	257881	4085192	3.38E-02	5.15E-03	2.79E-03
2040	257905.3	4085190	3.38E-02	5.15E-03	2.79E-03
2041	257929.6	4085189	3.38E-02	5.14E-03	2.78E-03
2042	257953.9	4085188	3.37E-02	5.13E-03	2.78E-03
2043	257978.2	4085187	3.31E-02	5.05E-03	2.73E-03
2044	258002.5	4085186	3.29E-02	5.02E-03	2.71E-03
2045	258026.7	4085185	3.27E-02	4.98E-03	2.70E-03
2046	258051	4085184	3.24E-02	4.94E-03	2.67E-03
2047	258075.3	4085183	3.20E-02	4.88E-03	2.64E-03
2048	258099.6	4085182	3.15E-02	4.81E-03	2.60E-03
2049	258123.9	4085181	3.10E-02	4.72E-03	2.55E-03
2050	258148.1	4085180	3.03E-02	4.61E-03	2.49E-03
2051	258172.4	4085179	2.94E-02	4.48E-03	2.42E-03
2052	258196.7	4085178	2.83E-02	4.31E-03	2.33E-03
2053	258221	4085177	2.69E-02	4.10E-03	2.22E-03
2054	258245.3	4085175	2.52E-02	3.84E-03	2.08E-03
2055	258269.6	4085174	2.31E-02	3.51E-03	1.90E-03
2056	258293.8	4085173	2.05E-02	3.12E-03	1.69E-03
2057	258318.1	4085172	1.74E-02	2.65E-03	1.43E-03
2058	258342.4	4085171	1.41E-02	2.15E-03	1.16E-03
2059	257548.4	4085224	1.82E-02	2.78E-03	1.50E-03
2060	257504.3	4085193	1.64E-02	2.49E-03	1.35E-03
2061	257590.8	4085229	2.02E-02	3.08E-03	1.67E-03

2062	257615	4085228	2.15E-02	3.28E-03	1.77E-03
2063	257639.3	4085227	2.25E-02	3.42E-03	1.85E-03
2064	257663.6	4085226	2.32E-02	3.54E-03	1.91E-03
2065	257687.9	4085225	2.38E-02	3.62E-03	1.96E-03
2066	257712.2	4085224	2.42E-02	3.69E-03	2.00E-03
2067	257736.5	4085223	2.45E-02	3.74E-03	2.02E-03
2068	257760.7	4085222	2.48E-02	3.78E-03	2.04E-03
2069	257785	4085221	2.50E-02	3.81E-03	2.06E-03
2070	257809.3	4085220	2.51E-02	3.83E-03	2.07E-03
2071	257833.6	4085219	2.52E-02	3.85E-03	2.08E-03
2072	257857.9	4085218	2.53E-02	3.86E-03	2.09E-03
2073	257882.1	4085217	2.53E-02	3.86E-03	2.09E-03
2074	257906.4	4085215	2.52E-02	3.84E-03	2.08E-03
2075	257930.7	4085214	2.50E-02	3.81E-03	2.06E-03
2076	257955	4085213	2.49E-02	3.79E-03	2.05E-03
2077	257979.3	4085212	2.47E-02	3.77E-03	2.04E-03
2078	258003.6	4085211	2.45E-02	3.74E-03	2.02E-03
2079	258027.8	4085210	2.43E-02	3.70E-03	2.00E-03
2080	258052.1	4085209	2.40E-02	3.65E-03	1.98E-03
2081	258076.4	4085208	2.36E-02	3.60E-03	1.95E-03
2082	258100.7	4085207	2.31E-02	3.52E-03	1.91E-03
2083	258125	4085206	2.26E-02	3.44E-03	1.86E-03
2084	258149.2	4085205	2.19E-02	3.34E-03	1.80E-03
2085	258173.5	4085204	2.11E-02	3.21E-03	1.74E-03
2086	258197.8	4085203	2.01E-02	3.06E-03	1.66E-03
2087	258222.1	4085201	1.89E-02	2.88E-03	1.56E-03
2088	258246.4	4085200	1.75E-02	2.67E-03	1.44E-03
2089	258270.7	4085199	1.59E-02	2.42E-03	1.31E-03
2090	258294.9	4085198	1.41E-02	2.14E-03	1.16E-03
2091	258319.2	4085197	1.21E-02	1.85E-03	9.98E-04
2092	258343.5	4085196	1.02E-02	1.55E-03	8.38E-04
2093	258367.8	4085195	8.43E-03	1.28E-03	6.95E-04
2094	257549.5	4085249	1.51E-02	2.29E-03	1.24E-03
2095	257513.4	4085236	1.39E-02	2.12E-03	1.15E-03
2096	257487.3	4085212	1.32E-02	2.00E-03	1.08E-03
2097	257471.3	4085177	1.23E-02	1.87E-03	1.01E-03
2098	257591.9	4085254	1.63E-02	2.48E-03	1.34E-03
2099	257616.2	4085253	1.72E-02	2.62E-03	1.42E-03
2100	257640.4	4085252	1.79E-02	2.72E-03	1.47E-03
2101	257664.7	4085251	1.84E-02	2.81E-03	1.52E-03
2102	257689	4085250	1.89E-02	2.87E-03	1.55E-03
2103	257713.3	4085249	1.92E-02	2.92E-03	1.58E-03
2104	257737.6	4085248	1.95E-02	2.96E-03	1.60E-03
2105	257761.8	4085247	1.97E-02	2.99E-03	1.62E-03
2106	257786.1	4085246	1.98E-02	3.02E-03	1.63E-03
2107	257810.4	4085245	1.99E-02	3.03E-03	1.64E-03
2108	257834.7	4085244	2.00E-02	3.04E-03	1.65E-03

2109	257859	4085243	2.00E-02	3.05E-03	1.65E-03
2110	257883.3	4085242	1.99E-02	3.03E-03	1.64E-03
2111	257907.5	4085240	1.98E-02	3.01E-03	1.63E-03
2112	257931.8	4085239	1.97E-02	3.00E-03	1.62E-03
2113	257956.1	4085238	1.96E-02	2.98E-03	1.61E-03
2114	257980.4	4085237	1.94E-02	2.96E-03	1.60E-03
2115	258004.7	4085236	1.92E-02	2.93E-03	1.58E-03
2116	258028.9	4085235	1.89E-02	2.89E-03	1.56E-03
2117	258053.2	4085234	1.86E-02	2.84E-03	1.54E-03
2118	258077.5	4085233	1.83E-02	2.78E-03	1.50E-03
2119	258101.8	4085232	1.78E-02	2.71E-03	1.47E-03
2120	258126.1	4085231	1.73E-02	2.63E-03	1.42E-03
2121	258150.4	4085230	1.67E-02	2.54E-03	1.37E-03
2122	258174.6	4085229	1.59E-02	2.43E-03	1.31E-03
2123	258198.9	4085228	1.51E-02	2.30E-03	1.24E-03
2124	258223.2	4085226	1.41E-02	2.15E-03	1.16E-03
2125	258247.5	4085225	1.30E-02	1.98E-03	1.07E-03
2126	258271.8	4085224	1.18E-02	1.80E-03	9.71E-04
2127	258296	4085223	1.05E-02	1.60E-03	8.63E-04
2128	258320.3	4085222	9.15E-03	1.39E-03	7.54E-04
2129	258344.6	4085221	7.87E-03	1.20E-03	6.49E-04
2130	257548.1	4085298	1.10E-02	1.68E-03	9.06E-04
2131	257526.5	4085290	1.08E-02	1.65E-03	8.90E-04
2132	257504.8	4085282	1.04E-02	1.59E-03	8.61E-04
2133	257483.2	4085274	9.90E-03	1.51E-03	8.16E-04
2134	257451.9	4085245	9.31E-03	1.42E-03	7.68E-04
2135	257442.2	4085224	9.14E-03	1.39E-03	7.53E-04
2136	257432.6	4085203	8.65E-03	1.32E-03	7.13E-04
2137	257422.9	4085182	7.92E-03	1.21E-03	6.53E-04
2138	257569.8	4085305	1.10E-02	1.68E-03	9.10E-04
2139	257594.1	4085304	1.16E-02	1.77E-03	9.57E-04
2140	257618.4	4085303	1.21E-02	1.84E-03	9.96E-04
2141	257642.6	4085302	1.25E-02	1.90E-03	1.03E-03
2142	257666.9	4085301	1.28E-02	1.95E-03	1.05E-03
2143	257691.2	4085300	1.31E-02	1.99E-03	1.08E-03
2144	257715.5	4085299	1.33E-02	2.02E-03	1.09E-03
2145	257739.8	4085298	1.34E-02	2.04E-03	1.11E-03
2146	257764.1	4085297	1.35E-02	2.06E-03	1.12E-03
2147	257788.3	4085296	1.36E-02	2.07E-03	1.12E-03
2148	257812.6	4085295	1.36E-02	2.07E-03	1.12E-03
2149	257836.9	4085294	1.36E-02	2.07E-03	1.12E-03
2150	257861.2	4085293	1.35E-02	2.06E-03	1.11E-03
2151	257885.5	4085291	1.35E-02	2.05E-03	1.11E-03
2152	257909.7	4085290	1.34E-02	2.04E-03	1.10E-03
2153	257934	4085289	1.33E-02	2.02E-03	1.09E-03
2154	257958.3	4085288	1.31E-02	2.00E-03	1.08E-03
2155	257982.6	4085287	1.29E-02	1.97E-03	1.07E-03

2156	258006.9	4085286	1.27E-02	1.94E-03	1.05E-03
2157	258031.2	4085285	1.25E-02	1.90E-03	1.03E-03
2158	258055.4	4085284	1.22E-02	1.86E-03	1.00E-03
2159	258079.7	4085283	1.19E-02	1.81E-03	9.77E-04
2160	258104	4085282	1.15E-02	1.75E-03	9.46E-04
2161	258128.3	4085281	1.10E-02	1.68E-03	9.11E-04
2162	258152.6	4085280	1.06E-02	1.61E-03	8.71E-04
2163	258176.8	4085279	1.00E-02	1.53E-03	8.27E-04
2164	258201.1	4085277	9.43E-03	1.44E-03	7.78E-04
2165	258225.4	4085276	8.78E-03	1.34E-03	7.24E-04
2166	258249.7	4085275	8.09E-03	1.23E-03	6.67E-04
2167	258274	4085274	7.38E-03	1.12E-03	6.08E-04
2168	258298.3	4085273	6.66E-03	1.01E-03	5.49E-04
2169	258322.5	4085272	5.96E-03	9.08E-04	4.91E-04
2170	258346.8	4085271	5.29E-03	8.06E-04	4.36E-04
2171	258371.1	4085270	4.68E-03	7.13E-04	3.86E-04
2172	257551.4	4085348	8.54E-03	1.30E-03	7.04E-04
2173	257510.1	4085333	8.36E-03	1.27E-03	6.89E-04
2174	257468.9	4085318	7.87E-03	1.20E-03	6.49E-04
2175	257418.4	4085283	7.11E-03	1.08E-03	5.86E-04
2176	257400	4085243	6.80E-03	1.04E-03	5.61E-04
2177	257381.7	4085203	5.92E-03	9.02E-04	4.88E-04
2178	257596.3	4085354	8.85E-03	1.35E-03	7.29E-04
2179	257620.6	4085353	9.12E-03	1.39E-03	7.52E-04
2180	257644.9	4085352	9.35E-03	1.42E-03	7.71E-04
2181	257669.1	4085351	9.54E-03	1.45E-03	7.86E-04
2182	257693.4	4085350	9.69E-03	1.48E-03	7.99E-04
2183	257717.7	4085349	9.82E-03	1.50E-03	8.09E-04
2184	257742	4085348	9.88E-03	1.51E-03	8.14E-04
2185	257766.3	4085347	9.89E-03	1.51E-03	8.15E-04
2186	257790.6	4085346	9.91E-03	1.51E-03	8.17E-04
2187	257814.8	4085345	9.91E-03	1.51E-03	8.17E-04
2188	257839.1	4085344	9.88E-03	1.50E-03	8.14E-04
2189	257863.4	4085343	9.82E-03	1.50E-03	8.09E-04
2190	257887.7	4085341	9.74E-03	1.48E-03	8.03E-04
2191	257912	4085340	9.64E-03	1.47E-03	7.95E-04
2192	257936.2	4085339	9.52E-03	1.45E-03	7.84E-04
2193	257960.5	4085338	9.37E-03	1.43E-03	7.72E-04
2194	257984.8	4085337	9.20E-03	1.40E-03	7.58E-04
2195	258009.1	4085336	9.00E-03	1.37E-03	7.42E-04
2196	258033.4	4085335	8.78E-03	1.34E-03	7.24E-04
2197	258057.7	4085334	8.54E-03	1.30E-03	7.04E-04
2198	258081.9	4085333	8.27E-03	1.26E-03	6.82E-04
2199	258106.2	4085332	7.97E-03	1.21E-03	6.57E-04
2200	258130.5	4085331	7.64E-03	1.16E-03	6.30E-04
2201	258154.8	4085330	7.28E-03	1.11E-03	6.00E-04
2202	258179.1	4085329	6.89E-03	1.05E-03	5.68E-04

2203	258203.3	4085327	6.47E-03	9.85E-04	5.33E-04
2204	258227.6	4085326	6.03E-03	9.18E-04	4.97E-04
2205	258251.9	4085325	5.58E-03	8.50E-04	4.60E-04
2206	258276.2	4085324	5.14E-03	7.83E-04	4.24E-04
2207	258300.5	4085323	4.71E-03	7.17E-04	3.88E-04
2208	258324.8	4085322	4.28E-03	6.52E-04	3.53E-04
2209	258349	4085321	3.87E-03	5.90E-04	3.19E-04
2210	258373.3	4085320	3.50E-03	5.33E-04	2.88E-04
2211	257551.7	4085397	6.85E-03	1.04E-03	5.65E-04
2212	257529.1	4085389	6.85E-03	1.04E-03	5.65E-04
2213	257506.5	4085381	6.80E-03	1.04E-03	5.61E-04
2214	257484	4085372	6.70E-03	1.02E-03	5.52E-04
2215	257461.4	4085364	6.53E-03	9.95E-04	5.38E-04
2216	257438.8	4085356	6.30E-03	9.59E-04	5.19E-04
2217	257416.3	4085348	6.00E-03	9.14E-04	4.95E-04
2218	257383.7	4085318	5.69E-03	8.67E-04	4.69E-04
2219	257373.6	4085296	5.63E-03	8.58E-04	4.64E-04
2220	257363.6	4085274	5.46E-03	8.32E-04	4.50E-04
2221	257353.5	4085252	5.17E-03	7.88E-04	4.26E-04
2222	257343.5	4085230	4.78E-03	7.28E-04	3.94E-04
2223	257333.4	4085209	4.33E-03	6.59E-04	3.57E-04
2224	257323.4	4085187	3.85E-03	5.87E-04	3.18E-04
2225	257574.2	4085405	6.81E-03	1.04E-03	5.61E-04
2226	257598.5	4085404	7.00E-03	1.07E-03	5.77E-04
2227	257622.8	4085403	7.17E-03	1.09E-03	5.91E-04
2228	257647.1	4085402	7.30E-03	1.11E-03	6.02E-04
2229	257671.4	4085401	7.41E-03	1.13E-03	6.11E-04
2230	257695.6	4085400	7.48E-03	1.14E-03	6.17E-04
2231	257719.9	4085399	7.50E-03	1.14E-03	6.19E-04
2232	257744.2	4085398	7.54E-03	1.15E-03	6.22E-04
2233	257768.5	4085397	7.56E-03	1.15E-03	6.23E-04
2234	257792.8	4085396	7.56E-03	1.15E-03	6.23E-04
2235	257817	4085395	7.53E-03	1.15E-03	6.21E-04
2236	257841.3	4085394	7.48E-03	1.14E-03	6.17E-04
2237	257865.6	4085392	7.42E-03	1.13E-03	6.11E-04
2238	257889.9	4085391	7.33E-03	1.12E-03	6.04E-04
2239	257914.2	4085390	7.23E-03	1.10E-03	5.96E-04
2240	257938.5	4085389	7.11E-03	1.08E-03	5.86E-04
2241	257962.7	4085388	6.98E-03	1.06E-03	5.75E-04
2242	257987	4085387	6.83E-03	1.04E-03	5.63E-04
2243	258011.3	4085386	6.66E-03	1.02E-03	5.49E-04
2244	258035.6	4085385	6.48E-03	9.88E-04	5.34E-04
2245	258059.9	4085384	6.29E-03	9.57E-04	5.18E-04
2246	258084.1	4085383	6.07E-03	9.25E-04	5.00E-04
2247	258108.4	4085382	5.83E-03	8.89E-04	4.81E-04
2248	258132.7	4085381	5.58E-03	8.50E-04	4.60E-04
2249	258157	4085380	5.30E-03	8.08E-04	4.37E-04

2250	258181.3	4085378	5.01E-03	7.63E-04	4.13E-04
2251	258205.6	4085377	4.71E-03	7.18E-04	3.88E-04
2252	258229.8	4085376	4.41E-03	6.72E-04	3.64E-04
2253	258254.1	4085375	4.12E-03	6.27E-04	3.39E-04
2254	258278.4	4085374	3.83E-03	5.83E-04	3.16E-04
2255	258302.7	4085373	3.54E-03	5.39E-04	2.92E-04
2256	258327	4085372	3.26E-03	4.96E-04	2.68E-04
2257	258351.2	4085371	2.99E-03	4.55E-04	2.46E-04
2258	258375.5	4085370	2.74E-03	4.17E-04	2.26E-04
2259	257554.8	4085447	5.62E-03	8.56E-04	4.63E-04
2260	257533.1	4085439	5.65E-03	8.61E-04	4.66E-04
2261	257511.5	4085432	5.66E-03	8.62E-04	4.66E-04
2262	257489.8	4085424	5.63E-03	8.58E-04	4.64E-04
2263	257468.1	4085416	5.57E-03	8.49E-04	4.59E-04
2264	257446.5	4085408	5.47E-03	8.34E-04	4.51E-04
2265	257424.8	4085400	5.33E-03	8.13E-04	4.40E-04
2266	257403.2	4085392	5.15E-03	7.85E-04	4.25E-04
2267	257381.5	4085384	4.94E-03	7.52E-04	4.07E-04
2268	257350.2	4085355	4.72E-03	7.18E-04	3.89E-04
2269	257340.5	4085334	4.69E-03	7.14E-04	3.86E-04
2270	257330.9	4085313	4.59E-03	7.00E-04	3.78E-04
2271	257321.2	4085292	4.42E-03	6.74E-04	3.65E-04
2272	257311.6	4085271	4.18E-03	6.37E-04	3.44E-04
2273	257302	4085251	3.88E-03	5.90E-04	3.19E-04
2274	257292.3	4085230	3.53E-03	5.38E-04	2.91E-04
2275	257282.7	4085209	3.18E-03	4.85E-04	2.62E-04
2276	257273	4085188	2.84E-03	4.33E-04	2.34E-04
2277	257576.4	4085455	5.56E-03	8.47E-04	4.58E-04
2278	257600.7	4085454	5.68E-03	8.65E-04	4.68E-04
2279	257625	4085453	5.78E-03	8.80E-04	4.76E-04
2280	257649.3	4085452	5.85E-03	8.92E-04	4.82E-04
2281	257673.6	4085451	5.88E-03	8.96E-04	4.85E-04
2282	257697.8	4085450	5.91E-03	9.00E-04	4.87E-04
2283	257722.1	4085449	5.93E-03	9.04E-04	4.89E-04
2284	257746.4	4085448	5.94E-03	9.06E-04	4.90E-04
2285	257770.7	4085447	5.94E-03	9.05E-04	4.90E-04
2286	257795	4085446	5.92E-03	9.02E-04	4.88E-04
2287	257819.3	4085445	5.88E-03	8.96E-04	4.85E-04
2288	257843.5	4085443	5.83E-03	8.89E-04	4.81E-04
2289	257867.8	4085442	5.77E-03	8.79E-04	4.75E-04
2290	257892.1	4085441	5.69E-03	8.67E-04	4.69E-04
2291	257916.4	4085440	5.60E-03	8.53E-04	4.61E-04
2292	257940.7	4085439	5.50E-03	8.37E-04	4.53E-04
2293	257964.9	4085438	5.38E-03	8.20E-04	4.44E-04
2294	257989.2	4085437	5.26E-03	8.01E-04	4.33E-04
2295	258013.5	4085436	5.12E-03	7.80E-04	4.22E-04
2296	258037.8	4085435	4.97E-03	7.58E-04	4.10E-04

2297	258062.1	4085434	4.81E-03	7.33E-04	3.96E-04
2298	258086.4	4085433	4.63E-03	7.06E-04	3.82E-04
2299	258110.6	4085432	4.44E-03	6.77E-04	3.66E-04
2300	258134.9	4085431	4.24E-03	6.46E-04	3.49E-04
2301	258159.2	4085430	4.03E-03	6.14E-04	3.32E-04
2302	258183.5	4085428	3.81E-03	5.81E-04	3.14E-04
2303	258207.8	4085427	3.60E-03	5.49E-04	2.97E-04
2304	258232	4085426	3.39E-03	5.17E-04	2.80E-04
2305	258256.3	4085425	3.19E-03	4.86E-04	2.63E-04
2306	258280.6	4085424	2.98E-03	4.54E-04	2.46E-04
2307	258304.9	4085423	2.78E-03	4.23E-04	2.29E-04
2308	258329.2	4085422	2.58E-03	3.93E-04	2.13E-04
2309	258353.5	4085421	2.39E-03	3.65E-04	1.97E-04
2310	258377.7	4085420	2.22E-03	3.38E-04	1.83E-04
2311	257558.6	4085547	3.93E-03	5.98E-04	3.24E-04
2312	257536.4	4085539	4.00E-03	6.09E-04	3.30E-04
2313	257514.2	4085531	4.04E-03	6.16E-04	3.33E-04
2314	257492	4085523	4.07E-03	6.20E-04	3.35E-04
2315	257469.8	4085515	4.08E-03	6.22E-04	3.36E-04
2316	257447.6	4085507	4.08E-03	6.21E-04	3.36E-04
2317	257425.3	4085498	4.05E-03	6.18E-04	3.34E-04
2318	257403.1	4085490	4.01E-03	6.11E-04	3.31E-04
2319	257380.9	4085482	3.94E-03	6.00E-04	3.25E-04
2320	257358.7	4085474	3.84E-03	5.86E-04	3.17E-04
2321	257336.5	4085466	3.73E-03	5.68E-04	3.07E-04
2322	257314.3	4085458	3.60E-03	5.48E-04	2.97E-04
2323	257282.2	4085428	3.48E-03	5.29E-04	2.86E-04
2324	257272.3	4085407	3.47E-03	5.28E-04	2.86E-04
2325	257262.4	4085385	3.42E-03	5.21E-04	2.82E-04
2326	257252.5	4085364	3.34E-03	5.09E-04	2.75E-04
2327	257242.6	4085342	3.21E-03	4.89E-04	2.65E-04
2328	257232.7	4085321	3.04E-03	4.63E-04	2.51E-04
2329	257222.8	4085299	2.84E-03	4.32E-04	2.34E-04
2330	257212.9	4085278	2.61E-03	3.97E-04	2.15E-04
2331	257203	4085256	2.37E-03	3.61E-04	1.95E-04
2332	257193.1	4085235	2.14E-03	3.26E-04	1.77E-04
2333	257183.2	4085213	1.93E-03	2.94E-04	1.59E-04
2334	257173.3	4085192	1.74E-03	2.65E-04	1.44E-04
2335	257580.9	4085555	3.86E-03	5.88E-04	3.18E-04
2336	257605.1	4085554	3.90E-03	5.94E-04	3.22E-04
2337	257629.4	4085553	3.93E-03	5.99E-04	3.24E-04
2338	257653.7	4085552	3.95E-03	6.02E-04	3.26E-04
2339	257678	4085551	3.96E-03	6.03E-04	3.26E-04
2340	257702.3	4085550	3.96E-03	6.03E-04	3.26E-04
2341	257726.6	4085549	3.94E-03	6.01E-04	3.25E-04
2342	257750.8	4085548	3.93E-03	5.98E-04	3.24E-04
2343	257775.1	4085547	3.91E-03	5.95E-04	3.22E-04

2344	257799.4	4085546	3.88E-03	5.91E-04	3.20E-04
2345	257823.7	4085544	3.84E-03	5.86E-04	3.17E-04
2346	257848	4085543	3.80E-03	5.79E-04	3.13E-04
2347	257872.2	4085542	3.75E-03	5.72E-04	3.09E-04
2348	257896.5	4085541	3.70E-03	5.63E-04	3.05E-04
2349	257920.8	4085540	3.63E-03	5.53E-04	2.99E-04
2350	257945.1	4085539	3.56E-03	5.42E-04	2.93E-04
2351	257969.4	4085538	3.48E-03	5.29E-04	2.86E-04
2352	257993.7	4085537	3.39E-03	5.16E-04	2.79E-04
2353	258017.9	4085536	3.29E-03	5.01E-04	2.71E-04
2354	258042.2	4085535	3.18E-03	4.84E-04	2.62E-04
2355	258066.5	4085534	3.07E-03	4.67E-04	2.53E-04
2356	258090.8	4085533	2.94E-03	4.49E-04	2.43E-04
2357	258115.1	4085532	2.82E-03	4.30E-04	2.32E-04
2358	258139.3	4085530	2.70E-03	4.11E-04	2.22E-04
2359	258163.6	4085529	2.57E-03	3.92E-04	2.12E-04
2360	258187.9	4085528	2.46E-03	3.74E-04	2.02E-04
2361	258212.2	4085527	2.34E-03	3.56E-04	1.93E-04
2362	258236.5	4085526	2.22E-03	3.39E-04	1.83E-04
2363	258260.8	4085525	2.11E-03	3.21E-04	1.74E-04
2364	258285	4085524	1.99E-03	3.03E-04	1.64E-04
2365	258309.3	4085523	1.88E-03	2.86E-04	1.55E-04
2366	258333.6	4085522	1.76E-03	2.69E-04	1.45E-04
2367	258357.9	4085521	1.66E-03	2.53E-04	1.37E-04
2368	258382.2	4085520	1.56E-03	2.38E-04	1.29E-04
2369	257562.7	4085647	2.88E-03	4.39E-04	2.37E-04
2370	257540.2	4085639	2.93E-03	4.47E-04	2.42E-04
2371	257517.6	4085630	2.98E-03	4.54E-04	2.46E-04
2372	257495	4085622	3.02E-03	4.60E-04	2.49E-04
2373	257472.5	4085614	3.05E-03	4.65E-04	2.52E-04
2374	257449.9	4085606	3.08E-03	4.69E-04	2.54E-04
2375	257427.3	4085597	3.10E-03	4.73E-04	2.56E-04
2376	257404.8	4085589	3.11E-03	4.74E-04	2.57E-04
2377	257382.2	4085581	3.11E-03	4.74E-04	2.56E-04
2378	257359.7	4085573	3.09E-03	4.71E-04	2.55E-04
2379	257337.1	4085564	3.06E-03	4.66E-04	2.52E-04
2380	257314.5	4085556	3.01E-03	4.58E-04	2.48E-04
2381	257292	4085548	2.95E-03	4.49E-04	2.43E-04
2382	257269.4	4085540	2.87E-03	4.38E-04	2.37E-04
2383	257246.8	4085531	2.79E-03	4.26E-04	2.30E-04
2384	257214.2	4085501	2.73E-03	4.16E-04	2.25E-04
2385	257204.2	4085480	2.73E-03	4.16E-04	2.25E-04
2386	257194.1	4085458	2.71E-03	4.13E-04	2.23E-04
2387	257184.1	4085436	2.67E-03	4.07E-04	2.20E-04
2388	257174	4085414	2.60E-03	3.96E-04	2.14E-04
2389	257164	4085392	2.50E-03	3.81E-04	2.06E-04
2390	257153.9	4085370	2.37E-03	3.62E-04	1.96E-04

2391	257143.9	4085349	2.22E-03	3.39E-04	1.83E-04
2392	257133.8	4085327	2.06E-03	3.14E-04	1.70E-04
2393	257123.8	4085305	1.89E-03	2.88E-04	1.56E-04
2394	257113.7	4085283	1.72E-03	2.62E-04	1.42E-04
2395	257103.7	4085261	1.56E-03	2.38E-04	1.29E-04
2396	257093.7	4085240	1.42E-03	2.17E-04	1.17E-04
2397	257083.6	4085218	1.30E-03	1.99E-04	1.07E-04
2398	257073.6	4085196	1.20E-03	1.83E-04	9.92E-05
2399	257585.3	4085655	2.82E-03	4.30E-04	2.33E-04
2400	257609.6	4085654	2.84E-03	4.32E-04	2.34E-04
2401	257633.9	4085653	2.84E-03	4.33E-04	2.34E-04
2402	257658.1	4085652	2.84E-03	4.33E-04	2.34E-04
2403	257682.4	4085651	2.84E-03	4.32E-04	2.34E-04
2404	257706.7	4085650	2.82E-03	4.30E-04	2.33E-04
2405	257731	4085649	2.81E-03	4.28E-04	2.31E-04
2406	257755.3	4085648	2.79E-03	4.24E-04	2.30E-04
2407	257779.5	4085647	2.76E-03	4.21E-04	2.28E-04
2408	257803.8	4085645	2.73E-03	4.16E-04	2.25E-04
2409	257828.1	4085644	2.70E-03	4.12E-04	2.23E-04
2410	257852.4	4085643	2.67E-03	4.07E-04	2.20E-04
2411	257876.7	4085642	2.63E-03	4.00E-04	2.17E-04
2412	257901	4085641	2.58E-03	3.93E-04	2.13E-04
2413	257925.2	4085640	2.53E-03	3.86E-04	2.09E-04
2414	257949.5	4085639	2.48E-03	3.77E-04	2.04E-04
2415	257973.8	4085638	2.41E-03	3.68E-04	1.99E-04
2416	257998.1	4085637	2.35E-03	3.58E-04	1.94E-04
2417	258022.4	4085636	2.28E-03	3.47E-04	1.88E-04
2418	258046.6	4085635	2.20E-03	3.35E-04	1.81E-04
2419	258070.9	4085634	2.12E-03	3.23E-04	1.75E-04
2420	258095.2	4085633	2.04E-03	3.11E-04	1.68E-04
2421	258119.5	4085631	1.97E-03	3.00E-04	1.62E-04
2422	258143.8	4085630	1.89E-03	2.88E-04	1.56E-04
2423	258168.1	4085629	1.82E-03	2.77E-04	1.50E-04
2424	258192.3	4085628	1.75E-03	2.66E-04	1.44E-04
2425	258216.6	4085627	1.66E-03	2.53E-04	1.37E-04
2426	258240.9	4085626	1.59E-03	2.42E-04	1.31E-04
2427	258265.2	4085625	1.51E-03	2.31E-04	1.25E-04
2428	258289.5	4085624	1.44E-03	2.19E-04	1.19E-04
2429	258313.7	4085623	1.37E-03	2.09E-04	1.13E-04
2430	258338	4085622	1.30E-03	1.98E-04	1.07E-04
2431	258362.3	4085621	1.23E-03	1.88E-04	1.02E-04
2432	258386.6	4085620	1.18E-03	1.79E-04	9.69E-05
2433	257566.9	4085747	2.20E-03	3.35E-04	1.81E-04
2434	257544.1	4085738	2.24E-03	3.41E-04	1.85E-04
2435	257521.3	4085730	2.28E-03	3.48E-04	1.88E-04
2436	257498.5	4085722	2.32E-03	3.53E-04	1.91E-04
2437	257475.7	4085713	2.35E-03	3.58E-04	1.94E-04

2438	257452.9	4085705	2.38E-03	3.63E-04	1.96E-04
2439	257430.1	4085697	2.41E-03	3.67E-04	1.99E-04
2440	257407.3	4085688	2.43E-03	3.70E-04	2.00E-04
2441	257384.5	4085680	2.45E-03	3.73E-04	2.02E-04
2442	257361.7	4085672	2.46E-03	3.75E-04	2.03E-04
2443	257338.9	4085663	2.47E-03	3.76E-04	2.04E-04
2444	257316.1	4085655	2.47E-03	3.76E-04	2.03E-04
2445	257293.3	4085647	2.46E-03	3.74E-04	2.02E-04
2446	257270.5	4085638	2.43E-03	3.70E-04	2.00E-04
2447	257247.7	4085630	2.39E-03	3.65E-04	1.97E-04
2448	257224.9	4085622	2.35E-03	3.59E-04	1.94E-04
2449	257202.1	4085613	2.31E-03	3.52E-04	1.90E-04
2450	257179.3	4085605	2.26E-03	3.44E-04	1.86E-04
2451	257146.3	4085575	2.23E-03	3.40E-04	1.84E-04
2452	257136.2	4085553	2.24E-03	3.41E-04	1.85E-04
2453	257126	4085531	2.24E-03	3.41E-04	1.84E-04
2454	257115.9	4085509	2.22E-03	3.37E-04	1.83E-04
2455	257105.7	4085487	2.18E-03	3.32E-04	1.79E-04
2456	257095.6	4085464	2.12E-03	3.23E-04	1.75E-04
2457	257085.4	4085442	2.04E-03	3.11E-04	1.68E-04
2458	257075.3	4085420	1.94E-03	2.96E-04	1.60E-04
2459	257065.1	4085398	1.83E-03	2.78E-04	1.51E-04
2460	257055	4085376	1.70E-03	2.59E-04	1.40E-04
2461	257044.8	4085354	1.57E-03	2.39E-04	1.29E-04
2462	257034.7	4085332	1.44E-03	2.20E-04	1.19E-04
2463	257024.5	4085310	1.32E-03	2.01E-04	1.09E-04
2464	257014.3	4085288	1.21E-03	1.84E-04	9.97E-05
2465	257004.2	4085266	1.11E-03	1.70E-04	9.18E-05
2466	256994	4085244	1.03E-03	1.57E-04	8.50E-05
2467	256983.9	4085222	9.63E-04	1.47E-04	7.94E-05
2468	256973.7	4085200	9.07E-04	1.38E-04	7.48E-05
2469	257589.7	4085755	2.15E-03	3.28E-04	1.78E-04
2470	257614	4085754	2.16E-03	3.28E-04	1.78E-04
2471	257638.3	4085753	2.16E-03	3.28E-04	1.78E-04
2472	257662.6	4085752	2.15E-03	3.28E-04	1.77E-04
2473	257686.8	4085751	2.14E-03	3.26E-04	1.77E-04
2474	257711.1	4085750	2.13E-03	3.24E-04	1.75E-04
2475	257735.4	4085749	2.11E-03	3.22E-04	1.74E-04
2476	257759.7	4085747	2.09E-03	3.18E-04	1.72E-04
2477	257784	4085746	2.07E-03	3.15E-04	1.70E-04
2478	257808.2	4085745	2.03E-03	3.10E-04	1.68E-04
2479	257832.5	4085744	2.00E-03	3.04E-04	1.65E-04
2480	257856.8	4085743	1.96E-03	2.99E-04	1.62E-04
2481	257881.1	4085742	1.93E-03	2.94E-04	1.59E-04
2482	257905.4	4085741	1.89E-03	2.88E-04	1.56E-04
2483	257929.7	4085740	1.85E-03	2.82E-04	1.53E-04
2484	257953.9	4085739	1.81E-03	2.75E-04	1.49E-04

2485	257978.2	4085738	1.76E-03	2.68E-04	1.45E-04
2486	258002.5	4085737	1.71E-03	2.60E-04	1.41E-04
2487	258026.8	4085736	1.66E-03	2.53E-04	1.37E-04
2488	258051.1	4085735	1.61E-03	2.45E-04	1.32E-04
2489	258075.3	4085734	1.56E-03	2.37E-04	1.28E-04
2490	258099.6	4085732	1.51E-03	2.30E-04	1.24E-04
2491	258123.9	4085731	1.46E-03	2.23E-04	1.20E-04
2492	258148.2	4085730	1.41E-03	2.15E-04	1.17E-04
2493	258172.5	4085729	1.37E-03	2.08E-04	1.13E-04
2494	258196.8	4085728	1.32E-03	2.01E-04	1.09E-04
2495	258221	4085727	1.27E-03	1.93E-04	1.04E-04
2496	258245.3	4085726	1.22E-03	1.85E-04	1.00E-04
2497	258269.6	4085725	1.17E-03	1.78E-04	9.61E-05
2498	258293.9	4085724	1.12E-03	1.70E-04	9.20E-05
2499	258318.2	4085723	1.07E-03	1.63E-04	8.80E-05
2500	258342.4	4085722	1.02E-03	1.56E-04	8.41E-05
2501	258366.7	4085721	9.75E-04	1.49E-04	8.04E-05
2502	258391	4085720	9.32E-04	1.42E-04	7.68E-05
2503	257572.2	4085847	1.74E-03	2.65E-04	1.43E-04
2504	257550.2	4085839	1.77E-03	2.70E-04	1.46E-04
2505	257528.2	4085831	1.80E-03	2.75E-04	1.49E-04
2506	257506.2	4085823	1.83E-03	2.79E-04	1.51E-04
2507	257484.3	4085815	1.86E-03	2.83E-04	1.53E-04
2508	257462.3	4085807	1.89E-03	2.87E-04	1.55E-04
2509	257440.3	4085799	1.91E-03	2.91E-04	1.57E-04
2510	257418.3	4085791	1.93E-03	2.94E-04	1.59E-04
2511	257396.4	4085783	1.95E-03	2.98E-04	1.61E-04
2512	257374.4	4085775	1.97E-03	3.01E-04	1.63E-04
2513	257352.4	4085767	1.99E-03	3.03E-04	1.64E-04
2514	257330.4	4085759	2.01E-03	3.06E-04	1.65E-04
2515	257308.5	4085751	2.02E-03	3.08E-04	1.66E-04
2516	257286.5	4085743	2.02E-03	3.08E-04	1.67E-04
2517	257264.5	4085735	2.02E-03	3.08E-04	1.67E-04
2518	257242.5	4085726	2.01E-03	3.07E-04	1.66E-04
2519	257220.6	4085718	2.00E-03	3.05E-04	1.65E-04
2520	257198.6	4085710	1.98E-03	3.02E-04	1.64E-04
2521	257176.6	4085702	1.96E-03	2.99E-04	1.62E-04
2522	257154.6	4085694	1.94E-03	2.95E-04	1.60E-04
2523	257132.7	4085686	1.91E-03	2.91E-04	1.58E-04
2524	257110.7	4085678	1.88E-03	2.87E-04	1.55E-04
2525	257078.9	4085649	1.87E-03	2.86E-04	1.55E-04
2526	257069.1	4085628	1.89E-03	2.88E-04	1.56E-04
2527	257059.4	4085607	1.89E-03	2.89E-04	1.56E-04
2528	257049.6	4085585	1.89E-03	2.88E-04	1.56E-04
2529	257039.8	4085564	1.87E-03	2.85E-04	1.54E-04
2530	257030	4085543	1.84E-03	2.81E-04	1.52E-04
2531	257020.2	4085522	1.80E-03	2.74E-04	1.48E-04

2532	257010.4	4085500	1.74E-03	2.66E-04	1.44E-04
2533	257000.6	4085479	1.67E-03	2.55E-04	1.38E-04
2534	256990.9	4085458	1.59E-03	2.42E-04	1.31E-04
2535	256981.1	4085437	1.50E-03	2.29E-04	1.24E-04
2536	256971.3	4085415	1.40E-03	2.14E-04	1.16E-04
2537	256961.5	4085394	1.30E-03	1.99E-04	1.07E-04
2538	256951.7	4085373	1.21E-03	1.84E-04	9.95E-05
2539	256941.9	4085352	1.11E-03	1.70E-04	9.19E-05
2540	256932.1	4085330	1.03E-03	1.57E-04	8.50E-05
2541	256922.4	4085309	9.56E-04	1.46E-04	7.88E-05
2542	256912.6	4085288	8.93E-04	1.36E-04	7.36E-05
2543	256902.8	4085267	8.39E-04	1.28E-04	6.91E-05
2544	256893	4085245	7.94E-04	1.21E-04	6.54E-05
2545	256883.2	4085224	7.57E-04	1.15E-04	6.24E-05
2546	256873.4	4085203	7.25E-04	1.10E-04	5.98E-05
2547	257594.1	4085855	1.71E-03	2.60E-04	1.41E-04
2548	257618.4	4085854	1.71E-03	2.60E-04	1.41E-04
2549	257642.7	4085853	1.70E-03	2.59E-04	1.40E-04
2550	257667	4085852	1.69E-03	2.58E-04	1.40E-04
2551	257691.3	4085851	1.68E-03	2.57E-04	1.39E-04
2552	257715.5	4085850	1.67E-03	2.54E-04	1.38E-04
2553	257739.8	4085848	1.65E-03	2.52E-04	1.36E-04
2554	257764.1	4085847	1.62E-03	2.47E-04	1.34E-04
2555	257788.4	4085846	1.60E-03	2.44E-04	1.32E-04
2556	257812.7	4085845	1.57E-03	2.39E-04	1.30E-04
2557	257837	4085844	1.54E-03	2.35E-04	1.27E-04
2558	257861.2	4085843	1.51E-03	2.30E-04	1.25E-04
2559	257885.5	4085842	1.48E-03	2.26E-04	1.22E-04
2560	257909.8	4085841	1.45E-03	2.21E-04	1.19E-04
2561	257934.1	4085840	1.41E-03	2.15E-04	1.17E-04
2562	257958.4	4085839	1.38E-03	2.10E-04	1.14E-04
2563	257982.6	4085838	1.35E-03	2.05E-04	1.11E-04
2564	258006.9	4085837	1.31E-03	2.00E-04	1.08E-04
2565	258031.2	4085836	1.28E-03	1.95E-04	1.06E-04
2566	258055.5	4085834	1.25E-03	1.90E-04	1.03E-04
2567	258079.8	4085833	1.22E-03	1.85E-04	1.00E-04
2568	258104.1	4085832	1.18E-03	1.80E-04	9.76E-05
2569	258128.3	4085831	1.15E-03	1.75E-04	9.48E-05
2570	258152.6	4085830	1.12E-03	1.70E-04	9.20E-05
2571	258176.9	4085829	1.08E-03	1.65E-04	8.91E-05
2572	258201.2	4085828	1.05E-03	1.59E-04	8.62E-05
2573	258225.5	4085827	1.01E-03	1.54E-04	8.32E-05
2574	258249.7	4085826	9.73E-04	1.48E-04	8.02E-05
2575	258274	4085825	9.38E-04	1.43E-04	7.73E-05
2576	258298.3	4085824	9.03E-04	1.38E-04	7.44E-05
2577	258322.6	4085823	8.69E-04	1.32E-04	7.16E-05
2578	258346.9	4085822	8.36E-04	1.27E-04	6.89E-05

2579	258371.2	4085821	8.03E-04	1.22E-04	6.62E-05
2580	258395.4	4085819	7.72E-04	1.18E-04	6.36E-05
2581	257580.6	4086047	1.18E-03	1.80E-04	9.75E-05
2582	257558.2	4086038	1.21E-03	1.84E-04	9.95E-05
2583	257535.8	4086030	1.23E-03	1.88E-04	1.01E-04
2584	257513.4	4086022	1.25E-03	1.91E-04	1.03E-04
2585	257490.9	4086014	1.27E-03	1.93E-04	1.05E-04
2586	257468.5	4086006	1.29E-03	1.96E-04	1.06E-04
2587	257446.1	4085997	1.30E-03	1.99E-04	1.08E-04
2588	257423.7	4085989	1.32E-03	2.01E-04	1.09E-04
2589	257401.3	4085981	1.34E-03	2.03E-04	1.10E-04
2590	257378.9	4085973	1.35E-03	2.06E-04	1.11E-04
2591	257356.5	4085965	1.36E-03	2.08E-04	1.13E-04
2592	257334.1	4085956	1.38E-03	2.10E-04	1.14E-04
2593	257311.7	4085948	1.39E-03	2.12E-04	1.15E-04
2594	257289.3	4085940	1.41E-03	2.15E-04	1.16E-04
2595	257266.9	4085932	1.42E-03	2.17E-04	1.17E-04
2596	257244.5	4085924	1.44E-03	2.19E-04	1.18E-04
2597	257222.1	4085916	1.45E-03	2.20E-04	1.19E-04
2598	257199.6	4085907	1.45E-03	2.21E-04	1.20E-04
2599	257177.2	4085899	1.46E-03	2.22E-04	1.20E-04
2600	257154.8	4085891	1.45E-03	2.22E-04	1.20E-04
2601	257132.4	4085883	1.45E-03	2.21E-04	1.19E-04
2602	257110	4085875	1.44E-03	2.20E-04	1.19E-04
2603	257087.6	4085866	1.44E-03	2.19E-04	1.18E-04
2604	257065.2	4085858	1.43E-03	2.17E-04	1.18E-04
2605	257042.8	4085850	1.42E-03	2.16E-04	1.17E-04
2606	257020.4	4085842	1.41E-03	2.15E-04	1.16E-04
2607	256998	4085834	1.40E-03	2.14E-04	1.16E-04
2608	256975.6	4085826	1.39E-03	2.12E-04	1.15E-04
2609	256943.2	4085796	1.40E-03	2.14E-04	1.16E-04
2610	256933.2	4085774	1.42E-03	2.16E-04	1.17E-04
2611	256923.2	4085752	1.44E-03	2.19E-04	1.18E-04
2612	256913.2	4085731	1.44E-03	2.20E-04	1.19E-04
2613	256903.3	4085709	1.45E-03	2.20E-04	1.19E-04
2614	256893.3	4085687	1.44E-03	2.19E-04	1.19E-04
2615	256883.3	4085666	1.42E-03	2.17E-04	1.17E-04
2616	256873.3	4085644	1.40E-03	2.14E-04	1.16E-04
2617	256863.4	4085622	1.37E-03	2.09E-04	1.13E-04
2618	256853.4	4085601	1.33E-03	2.02E-04	1.10E-04
2619	256843.4	4085579	1.28E-03	1.95E-04	1.06E-04
2620	256833.4	4085557	1.22E-03	1.87E-04	1.01E-04
2621	256823.4	4085536	1.16E-03	1.77E-04	9.58E-05
2622	256813.5	4085514	1.10E-03	1.67E-04	9.04E-05
2623	256803.5	4085492	1.03E-03	1.57E-04	8.47E-05
2624	256793.5	4085471	9.59E-04	1.46E-04	7.91E-05
2625	256783.5	4085449	8.93E-04	1.36E-04	7.36E-05

2626	256773.5	4085427	8.31E-04	1.27E-04	6.85E-05
2627	256763.6	4085406	7.75E-04	1.18E-04	6.39E-05
2628	256753.6	4085384	7.26E-04	1.11E-04	5.98E-05
2629	256743.6	4085362	6.83E-04	1.04E-04	5.63E-05
2630	256733.6	4085341	6.48E-04	9.87E-05	5.34E-05
2631	256723.7	4085319	6.17E-04	9.41E-05	5.09E-05
2632	256713.7	4085297	5.92E-04	9.02E-05	4.88E-05
2633	256703.7	4085276	5.70E-04	8.68E-05	4.70E-05
2634	256693.7	4085254	5.51E-04	8.39E-05	4.54E-05
2635	256683.7	4085232	5.33E-04	8.13E-05	4.40E-05
2636	256673.8	4085211	5.18E-04	7.90E-05	4.27E-05
2637	257603	4086055	1.16E-03	1.77E-04	9.56E-05
2638	257627.3	4086054	1.15E-03	1.76E-04	9.50E-05
2639	257651.6	4086053	1.14E-03	1.74E-04	9.43E-05
2640	257675.8	4086051	1.13E-03	1.73E-04	9.34E-05
2641	257700.1	4086050	1.12E-03	1.71E-04	9.24E-05
2642	257724.4	4086049	1.11E-03	1.69E-04	9.12E-05
2643	257748.7	4086048	1.09E-03	1.66E-04	8.98E-05
2644	257773	4086047	1.07E-03	1.63E-04	8.82E-05
2645	257797.2	4086046	1.05E-03	1.60E-04	8.65E-05
2646	257821.5	4086045	1.03E-03	1.56E-04	8.47E-05
2647	257845.8	4086044	1.00E-03	1.53E-04	8.28E-05
2648	257870.1	4086043	9.81E-04	1.49E-04	8.09E-05
2649	257894.4	4086042	9.59E-04	1.46E-04	7.90E-05
2650	257918.7	4086041	9.38E-04	1.43E-04	7.73E-05
2651	257942.9	4086040	9.18E-04	1.40E-04	7.57E-05
2652	257967.2	4086039	9.01E-04	1.37E-04	7.42E-05
2653	257991.5	4086038	8.84E-04	1.35E-04	7.29E-05
2654	258015.8	4086036	8.69E-04	1.32E-04	7.16E-05
2655	258040.1	4086035	8.53E-04	1.30E-04	7.03E-05
2656	258064.3	4086034	8.38E-04	1.28E-04	6.91E-05
2657	258088.6	4086033	8.21E-04	1.25E-04	6.77E-05
2658	258112.9	4086032	8.04E-04	1.22E-04	6.62E-05
2659	258137.2	4086031	7.85E-04	1.20E-04	6.47E-05
2660	258161.5	4086030	7.65E-04	1.17E-04	6.31E-05
2661	258185.8	4086029	7.44E-04	1.13E-04	6.14E-05
2662	258210	4086028	7.24E-04	1.10E-04	5.97E-05
2663	258234.3	4086027	7.03E-04	1.07E-04	5.80E-05
2664	258258.6	4086026	6.83E-04	1.04E-04	5.63E-05
2665	258282.9	4086025	6.63E-04	1.01E-04	5.46E-05
2666	258307.2	4086024	6.43E-04	9.80E-05	5.30E-05
2667	258331.4	4086022	6.24E-04	9.50E-05	5.14E-05
2668	258355.7	4086021	6.05E-04	9.22E-05	4.99E-05
2669	258380	4086020	5.86E-04	8.93E-05	4.83E-05
2670	258404.3	4086019	5.69E-04	8.66E-05	4.69E-05
2671	257589.1	4086246	8.66E-04	1.32E-04	7.13E-05
2672	257566.5	4086238	8.84E-04	1.35E-04	7.28E-05

2673	257543.8	4086230	9.01E-04	1.37E-04	7.42E-05
2674	257521.1	4086221	9.17E-04	1.40E-04	7.56E-05
2675	257498.4	4086213	9.33E-04	1.42E-04	7.69E-05
2676	257475.7	4086205	9.47E-04	1.44E-04	7.81E-05
2677	257453	4086196	9.61E-04	1.46E-04	7.92E-05
2678	257430.3	4086188	9.74E-04	1.48E-04	8.03E-05
2679	257407.6	4086180	9.87E-04	1.50E-04	8.13E-05
2680	257384.9	4086172	9.98E-04	1.52E-04	8.23E-05
2681	257362.2	4086163	1.01E-03	1.54E-04	8.31E-05
2682	257339.5	4086155	1.02E-03	1.55E-04	8.40E-05
2683	257316.8	4086147	1.03E-03	1.57E-04	8.50E-05
2684	257294.1	4086138	1.04E-03	1.59E-04	8.59E-05
2685	257271.4	4086130	1.05E-03	1.60E-04	8.67E-05
2686	257248.8	4086122	1.06E-03	1.62E-04	8.76E-05
2687	257226.1	4086114	1.07E-03	1.64E-04	8.85E-05
2688	257203.4	4086105	1.08E-03	1.65E-04	8.93E-05
2689	257180.7	4086097	1.09E-03	1.67E-04	9.01E-05
2690	257158	4086089	1.10E-03	1.68E-04	9.09E-05
2691	257135.3	4086080	1.11E-03	1.69E-04	9.14E-05
2692	257112.6	4086072	1.11E-03	1.70E-04	9.18E-05
2693	257089.9	4086064	1.12E-03	1.70E-04	9.20E-05
2694	257067.2	4086056	1.12E-03	1.70E-04	9.21E-05
2695	257044.5	4086047	1.12E-03	1.70E-04	9.20E-05
2696	257021.8	4086039	1.11E-03	1.70E-04	9.18E-05
2697	256999.1	4086031	1.11E-03	1.69E-04	9.16E-05
2698	256976.4	4086022	1.11E-03	1.69E-04	9.14E-05
2699	256953.8	4086014	1.11E-03	1.68E-04	9.11E-05
2700	256931.1	4086006	1.10E-03	1.68E-04	9.10E-05
2701	256908.4	4085998	1.10E-03	1.68E-04	9.08E-05
2702	256885.7	4085989	1.10E-03	1.67E-04	9.06E-05
2703	256863	4085981	1.10E-03	1.67E-04	9.04E-05
2704	256840.3	4085973	1.09E-03	1.67E-04	9.02E-05
2705	256807.5	4085942	1.11E-03	1.69E-04	9.15E-05
2706	256797.4	4085920	1.13E-03	1.72E-04	9.28E-05
2707	256787.3	4085899	1.14E-03	1.74E-04	9.40E-05
2708	256777.2	4085877	1.15E-03	1.76E-04	9.50E-05
2709	256767.1	4085855	1.16E-03	1.77E-04	9.58E-05
2710	256757	4085833	1.17E-03	1.78E-04	9.61E-05
2711	256746.9	4085811	1.17E-03	1.78E-04	9.61E-05
2712	256736.8	4085789	1.16E-03	1.77E-04	9.56E-05
2713	256726.7	4085767	1.15E-03	1.75E-04	9.46E-05
2714	256716.5	4085745	1.13E-03	1.72E-04	9.31E-05
2715	256706.4	4085723	1.11E-03	1.69E-04	9.12E-05
2716	256696.3	4085701	1.08E-03	1.64E-04	8.89E-05
2717	256686.2	4085679	1.04E-03	1.59E-04	8.60E-05
2718	256676.1	4085657	1.00E-03	1.53E-04	8.27E-05
2719	256666	4085635	9.59E-04	1.46E-04	7.90E-05

2720	256655.9	4085613	9.11E-04	1.39E-04	7.51E-05
2721	256645.8	4085591	8.60E-04	1.31E-04	7.09E-05
2722	256635.7	4085569	8.09E-04	1.23E-04	6.67E-05
2723	256625.6	4085547	7.58E-04	1.15E-04	6.25E-05
2724	256615.5	4085526	7.09E-04	1.08E-04	5.84E-05
2725	256605.4	4085504	6.63E-04	1.01E-04	5.47E-05
2726	256595.3	4085482	6.22E-04	9.48E-05	5.13E-05
2727	256585.2	4085460	5.86E-04	8.93E-05	4.83E-05
2728	256575.1	4085438	5.55E-04	8.45E-05	4.57E-05
2729	256565	4085416	5.29E-04	8.05E-05	4.36E-05
2730	256554.9	4085394	5.07E-04	7.72E-05	4.18E-05
2731	256544.8	4085372	4.88E-04	7.44E-05	4.02E-05
2732	256534.7	4085350	4.72E-04	7.19E-05	3.89E-05
2733	256524.5	4085328	4.58E-04	6.98E-05	3.78E-05
2734	256514.4	4085306	4.45E-04	6.78E-05	3.67E-05
2735	256504.3	4085284	4.33E-04	6.60E-05	3.57E-05
2736	256494.2	4085262	4.22E-04	6.43E-05	3.48E-05
2737	256484.1	4085240	4.12E-04	6.28E-05	3.40E-05
2738	256474	4085218	4.03E-04	6.14E-05	3.32E-05
2739	257611.8	4086255	8.46E-04	1.29E-04	6.98E-05
2740	257636.1	4086253	8.37E-04	1.28E-04	6.90E-05
2741	257660.4	4086252	8.27E-04	1.26E-04	6.81E-05
2742	257684.7	4086251	8.15E-04	1.24E-04	6.72E-05
2743	257709	4086250	8.03E-04	1.22E-04	6.62E-05
2744	257733.2	4086249	7.90E-04	1.20E-04	6.51E-05
2745	257757.5	4086248	7.77E-04	1.18E-04	6.41E-05
2746	257781.8	4086247	7.64E-04	1.16E-04	6.30E-05
2747	257806.1	4086246	7.50E-04	1.14E-04	6.18E-05
2748	257830.4	4086245	7.36E-04	1.12E-04	6.07E-05
2749	257854.7	4086244	7.23E-04	1.10E-04	5.96E-05
2750	257878.9	4086243	7.10E-04	1.08E-04	5.85E-05
2751	257903.2	4086242	6.97E-04	1.06E-04	5.74E-05
2752	257927.5	4086241	6.85E-04	1.04E-04	5.64E-05
2753	257951.8	4086239	6.73E-04	1.02E-04	5.55E-05
2754	257976.1	4086238	6.61E-04	1.01E-04	5.45E-05
2755	258000.3	4086237	6.49E-04	9.89E-05	5.35E-05
2756	258024.6	4086236	6.37E-04	9.71E-05	5.25E-05
2757	258048.9	4086235	6.25E-04	9.53E-05	5.15E-05
2758	258073.2	4086234	6.13E-04	9.35E-05	5.06E-05
2759	258097.5	4086233	6.02E-04	9.17E-05	4.96E-05
2760	258121.8	4086232	5.91E-04	9.01E-05	4.87E-05
2761	258146	4086231	5.80E-04	8.84E-05	4.78E-05
2762	258170.3	4086230	5.68E-04	8.66E-05	4.68E-05
2763	258194.6	4086229	5.56E-04	8.48E-05	4.59E-05
2764	258218.9	4086228	5.45E-04	8.30E-05	4.49E-05
2765	258243.2	4086227	5.33E-04	8.12E-05	4.39E-05
2766	258267.4	4086225	5.21E-04	7.94E-05	4.29E-05

2767	258291.7	4086224	5.09E-04	7.75E-05	4.19E-05
2768	258316	4086223	4.96E-04	7.56E-05	4.09E-05
2769	258340.3	4086222	4.84E-04	7.38E-05	3.99E-05
2770	258364.6	4086221	4.72E-04	7.19E-05	3.89E-05
2771	258388.9	4086220	4.60E-04	7.01E-05	3.79E-05
2772	258413.1	4086219	4.48E-04	6.82E-05	3.69E-05
2773	257598.3	4086446	6.60E-04	1.01E-04	5.44E-05
2774	257576	4086438	6.75E-04	1.03E-04	5.57E-05
2775	257553.6	4086430	6.90E-04	1.05E-04	5.68E-05
2776	257531.3	4086422	7.04E-04	1.07E-04	5.80E-05
2777	257508.9	4086414	7.17E-04	1.09E-04	5.91E-05
2778	257486.6	4086405	7.31E-04	1.11E-04	6.02E-05
2779	257464.2	4086397	7.43E-04	1.13E-04	6.12E-05
2780	257441.9	4086389	7.55E-04	1.15E-04	6.22E-05
2781	257419.5	4086381	7.66E-04	1.17E-04	6.31E-05
2782	257397.2	4086373	7.76E-04	1.18E-04	6.40E-05
2783	257374.9	4086365	7.86E-04	1.20E-04	6.48E-05
2784	257352.5	4086356	7.95E-04	1.21E-04	6.55E-05
2785	257330.2	4086348	8.03E-04	1.22E-04	6.62E-05
2786	257307.8	4086340	8.11E-04	1.24E-04	6.69E-05
2787	257285.5	4086332	8.19E-04	1.25E-04	6.75E-05
2788	257263.1	4086324	8.27E-04	1.26E-04	6.81E-05
2789	257240.8	4086316	8.34E-04	1.27E-04	6.88E-05
2790	257218.4	4086307	8.42E-04	1.28E-04	6.94E-05
2791	257196.1	4086299	8.49E-04	1.29E-04	7.00E-05
2792	257173.7	4086291	8.57E-04	1.31E-04	7.06E-05
2793	257151.4	4086283	8.67E-04	1.32E-04	7.14E-05
2794	257129	4086275	8.75E-04	1.33E-04	7.21E-05
2795	257106.7	4086267	8.82E-04	1.34E-04	7.27E-05
2796	257084.3	4086258	8.88E-04	1.35E-04	7.32E-05
2797	257062	4086250	8.93E-04	1.36E-04	7.36E-05
2798	257039.6	4086242	8.96E-04	1.37E-04	7.39E-05
2799	257017.3	4086234	8.99E-04	1.37E-04	7.41E-05
2800	256994.9	4086226	9.00E-04	1.37E-04	7.42E-05
2801	256972.6	4086218	8.98E-04	1.37E-04	7.40E-05
2802	256950.2	4086209	8.96E-04	1.36E-04	7.38E-05
2803	256927.9	4086201	8.95E-04	1.36E-04	7.37E-05
2804	256905.5	4086193	8.94E-04	1.36E-04	7.37E-05
2805	256883.2	4086185	8.93E-04	1.36E-04	7.36E-05
2806	256860.8	4086177	8.92E-04	1.36E-04	7.35E-05
2807	256838.5	4086169	8.92E-04	1.36E-04	7.35E-05
2808	256816.1	4086160	8.93E-04	1.36E-04	7.36E-05
2809	256793.8	4086152	8.93E-04	1.36E-04	7.36E-05
2810	256771.4	4086144	8.94E-04	1.36E-04	7.37E-05
2811	256749.1	4086136	8.94E-04	1.36E-04	7.37E-05
2812	256726.7	4086128	8.95E-04	1.36E-04	7.37E-05
2813	256704.4	4086120	8.95E-04	1.36E-04	7.38E-05

2814	256672.1	4086090	9.10E-04	1.39E-04	7.50E-05
2815	256662.1	4086068	9.25E-04	1.41E-04	7.62E-05
2816	256652.2	4086047	9.40E-04	1.43E-04	7.75E-05
2817	256642.2	4086025	9.52E-04	1.45E-04	7.85E-05
2818	256632.3	4086003	9.62E-04	1.47E-04	7.93E-05
2819	256622.3	4085982	9.71E-04	1.48E-04	8.00E-05
2820	256612.4	4085960	9.77E-04	1.49E-04	8.05E-05
2821	256602.4	4085939	9.80E-04	1.49E-04	8.08E-05
2822	256592.5	4085917	9.79E-04	1.49E-04	8.07E-05
2823	256582.5	4085895	9.75E-04	1.49E-04	8.04E-05
2824	256572.6	4085874	9.67E-04	1.47E-04	7.97E-05
2825	256562.6	4085852	9.54E-04	1.45E-04	7.87E-05
2826	256552.7	4085830	9.38E-04	1.43E-04	7.73E-05
2827	256542.7	4085809	9.18E-04	1.40E-04	7.57E-05
2828	256532.8	4085787	8.94E-04	1.36E-04	7.37E-05
2829	256522.8	4085766	8.66E-04	1.32E-04	7.14E-05
2830	256512.9	4085744	8.35E-04	1.27E-04	6.88E-05
2831	256502.9	4085722	8.00E-04	1.22E-04	6.60E-05
2832	256493	4085701	7.65E-04	1.17E-04	6.31E-05
2833	256483	4085679	7.27E-04	1.11E-04	5.99E-05
2834	256473	4085658	6.87E-04	1.05E-04	5.67E-05
2835	256463.1	4085636	6.48E-04	9.87E-05	5.34E-05
2836	256453.1	4085614	6.10E-04	9.29E-05	5.03E-05
2837	256443.2	4085593	5.74E-04	8.74E-05	4.73E-05
2838	256433.2	4085571	5.40E-04	8.23E-05	4.45E-05
2839	256423.3	4085550	5.10E-04	7.77E-05	4.21E-05
2840	256413.3	4085528	4.84E-04	7.37E-05	3.99E-05
2841	256403.4	4085506	4.61E-04	7.03E-05	3.80E-05
2842	256393.4	4085485	4.42E-04	6.74E-05	3.65E-05
2843	256383.5	4085463	4.26E-04	6.49E-05	3.51E-05
2844	256373.5	4085441	4.13E-04	6.29E-05	3.40E-05
2845	256363.6	4085420	4.01E-04	6.12E-05	3.31E-05
2846	256353.6	4085398	3.91E-04	5.96E-05	3.23E-05
2847	256343.7	4085377	3.82E-04	5.82E-05	3.15E-05
2848	256333.7	4085355	3.74E-04	5.69E-05	3.08E-05
2849	256323.8	4085333	3.65E-04	5.56E-05	3.01E-05
2850	256313.8	4085312	3.57E-04	5.44E-05	2.94E-05
2851	256303.9	4085290	3.50E-04	5.33E-05	2.88E-05
2852	256293.9	4085269	3.42E-04	5.21E-05	2.82E-05
2853	256284	4085247	3.36E-04	5.11E-05	2.77E-05
2854	256274	4085225	3.30E-04	5.02E-05	2.72E-05
2855	257620.7	4086454	6.45E-04	9.83E-05	5.32E-05
2856	257645	4086453	6.37E-04	9.71E-05	5.25E-05
2857	257669.2	4086452	6.29E-04	9.59E-05	5.19E-05
2858	257693.5	4086451	6.21E-04	9.46E-05	5.12E-05
2859	257717.8	4086450	6.12E-04	9.33E-05	5.05E-05
2860	257742.1	4086449	6.04E-04	9.20E-05	4.98E-05

2861	257766.4	4086448	5.97E-04	9.09E-05	4.92E-05
2862	257790.7	4086447	5.89E-04	8.98E-05	4.86E-05
2863	257814.9	4086446	5.82E-04	8.87E-05	4.80E-05
2864	257839.2	4086445	5.75E-04	8.76E-05	4.74E-05
2865	257863.5	4086444	5.68E-04	8.65E-05	4.68E-05
2866	257887.8	4086443	5.60E-04	8.53E-05	4.61E-05
2867	257912.1	4086441	5.52E-04	8.40E-05	4.55E-05
2868	257936.3	4086440	5.43E-04	8.27E-05	4.47E-05
2869	257960.6	4086439	5.34E-04	8.13E-05	4.40E-05
2870	257984.9	4086438	5.24E-04	7.98E-05	4.32E-05
2871	258009.2	4086437	5.14E-04	7.82E-05	4.23E-05
2872	258033.5	4086436	5.03E-04	7.67E-05	4.15E-05
2873	258057.8	4086435	4.93E-04	7.51E-05	4.06E-05
2874	258082	4086434	4.82E-04	7.35E-05	3.98E-05
2875	258106.3	4086433	4.72E-04	7.20E-05	3.89E-05
2876	258130.6	4086432	4.63E-04	7.05E-05	3.82E-05
2877	258154.9	4086431	4.54E-04	6.92E-05	3.74E-05
2878	258179.2	4086430	4.46E-04	6.79E-05	3.67E-05
2879	258203.4	4086429	4.38E-04	6.67E-05	3.61E-05
2880	258227.7	4086427	4.30E-04	6.56E-05	3.55E-05
2881	258252	4086426	4.23E-04	6.45E-05	3.49E-05
2882	258276.3	4086425	4.16E-04	6.34E-05	3.43E-05
2883	258300.6	4086424	4.09E-04	6.23E-05	3.37E-05
2884	258324.9	4086423	4.01E-04	6.11E-05	3.31E-05
2885	258349.1	4086422	3.93E-04	5.99E-05	3.24E-05
2886	258373.4	4086421	3.86E-04	5.87E-05	3.18E-05
2887	258397.7	4086420	3.78E-04	5.75E-05	3.11E-05
2888	258422	4086419	3.70E-04	5.63E-05	3.05E-05
2889	257607	4086646	5.25E-04	8.01E-05	4.33E-05
2890	257584.4	4086638	5.35E-04	8.16E-05	4.41E-05
2891	257561.8	4086629	5.46E-04	8.32E-05	4.50E-05
2892	257539.3	4086621	5.57E-04	8.48E-05	4.59E-05
2893	257516.7	4086613	5.68E-04	8.65E-05	4.68E-05
2894	257494.2	4086605	5.79E-04	8.82E-05	4.77E-05
2895	257471.6	4086596	5.90E-04	8.99E-05	4.87E-05
2896	257449	4086588	6.01E-04	9.16E-05	4.96E-05
2897	257426.5	4086580	6.12E-04	9.32E-05	5.04E-05
2898	257403.9	4086572	6.22E-04	9.48E-05	5.13E-05
2899	257381.3	4086563	6.32E-04	9.63E-05	5.21E-05
2900	257358.8	4086555	6.41E-04	9.76E-05	5.28E-05
2901	257336.2	4086547	6.49E-04	9.88E-05	5.35E-05
2902	257313.6	4086539	6.56E-04	1.00E-04	5.41E-05
2903	257291.1	4086530	6.63E-04	1.01E-04	5.47E-05
2904	257268.5	4086522	6.70E-04	1.02E-04	5.52E-05
2905	257246	4086514	6.77E-04	1.03E-04	5.58E-05
2906	257223.4	4086506	6.84E-04	1.04E-04	5.64E-05
2907	257200.8	4086498	6.91E-04	1.05E-04	5.70E-05

2908	257178.3	4086489	6.98E-04	1.06E-04	5.75E-05
2909	257155.7	4086481	7.04E-04	1.07E-04	5.81E-05
2910	257133.1	4086473	7.11E-04	1.08E-04	5.86E-05
2911	257110.6	4086465	7.17E-04	1.09E-04	5.91E-05
2912	257088	4086456	7.24E-04	1.10E-04	5.97E-05
2913	257065.4	4086448	7.30E-04	1.11E-04	6.01E-05
2914	257042.9	4086440	7.35E-04	1.12E-04	6.06E-05
2915	257020.3	4086432	7.40E-04	1.13E-04	6.10E-05
2916	256997.8	4086423	7.44E-04	1.13E-04	6.13E-05
2917	256975.2	4086415	7.47E-04	1.14E-04	6.16E-05
2918	256952.6	4086407	7.49E-04	1.14E-04	6.17E-05
2919	256930.1	4086399	7.50E-04	1.14E-04	6.18E-05
2920	256907.5	4086390	7.50E-04	1.14E-04	6.18E-05
2921	256884.9	4086382	7.50E-04	1.14E-04	6.18E-05
2922	256862.4	4086374	7.49E-04	1.14E-04	6.17E-05
2923	256839.8	4086366	7.48E-04	1.14E-04	6.16E-05
2924	256817.2	4086357	7.47E-04	1.14E-04	6.15E-05
2925	256794.7	4086349	7.46E-04	1.14E-04	6.15E-05
2926	256772.1	4086341	7.46E-04	1.14E-04	6.15E-05
2927	256749.6	4086333	7.46E-04	1.14E-04	6.15E-05
2928	256727	4086324	7.47E-04	1.14E-04	6.16E-05
2929	256704.4	4086316	7.48E-04	1.14E-04	6.17E-05
2930	256681.9	4086308	7.50E-04	1.14E-04	6.18E-05
2931	256659.3	4086300	7.51E-04	1.14E-04	6.19E-05
2932	256636.7	4086291	7.53E-04	1.15E-04	6.21E-05
2933	256614.2	4086283	7.56E-04	1.15E-04	6.23E-05
2934	256591.6	4086275	7.58E-04	1.16E-04	6.25E-05
2935	256569	4086267	7.60E-04	1.16E-04	6.26E-05
2936	256536.4	4086237	7.73E-04	1.18E-04	6.37E-05
2937	256526.4	4086215	7.85E-04	1.20E-04	6.47E-05
2938	256516.3	4086193	7.96E-04	1.21E-04	6.57E-05
2939	256506.3	4086171	8.07E-04	1.23E-04	6.66E-05
2940	256496.2	4086149	8.18E-04	1.25E-04	6.74E-05
2941	256486.2	4086128	8.27E-04	1.26E-04	6.81E-05
2942	256476.1	4086106	8.34E-04	1.27E-04	6.88E-05
2943	256466.1	4086084	8.40E-04	1.28E-04	6.93E-05
2944	256456.1	4086062	8.44E-04	1.29E-04	6.96E-05
2945	256446	4086040	8.46E-04	1.29E-04	6.97E-05
2946	256436	4086018	8.45E-04	1.29E-04	6.96E-05
2947	256425.9	4085997	8.41E-04	1.28E-04	6.93E-05
2948	256415.9	4085975	8.35E-04	1.27E-04	6.88E-05
2949	256405.8	4085953	8.25E-04	1.26E-04	6.80E-05
2950	256395.8	4085931	8.13E-04	1.24E-04	6.70E-05
2951	256385.7	4085909	7.97E-04	1.21E-04	6.57E-05
2952	256375.7	4085888	7.79E-04	1.19E-04	6.42E-05
2953	256365.6	4085866	7.59E-04	1.16E-04	6.26E-05
2954	256355.6	4085844	7.34E-04	1.12E-04	6.05E-05

2955	256345.5	4085822	7.07E-04	1.08E-04	5.83E-05
2956	256335.5	4085800	6.78E-04	1.03E-04	5.59E-05
2957	256325.4	4085778	6.47E-04	9.86E-05	5.34E-05
2958	256315.4	4085757	6.16E-04	9.38E-05	5.08E-05
2959	256305.3	4085735	5.84E-04	8.89E-05	4.81E-05
2960	256295.3	4085713	5.52E-04	8.41E-05	4.55E-05
2961	256285.2	4085691	5.22E-04	7.95E-05	4.30E-05
2962	256275.2	4085669	4.93E-04	7.51E-05	4.06E-05
2963	256265.1	4085648	4.66E-04	7.10E-05	3.84E-05
2964	256255.1	4085626	4.41E-04	6.72E-05	3.64E-05
2965	256245.1	4085604	4.20E-04	6.39E-05	3.46E-05
2966	256235	4085582	4.01E-04	6.11E-05	3.30E-05
2967	256225	4085560	3.85E-04	5.87E-05	3.17E-05
2968	256214.9	4085538	3.72E-04	5.66E-05	3.06E-05
2969	256204.9	4085517	3.61E-04	5.49E-05	2.97E-05
2970	256194.8	4085495	3.51E-04	5.35E-05	2.89E-05
2971	256184.8	4085473	3.43E-04	5.23E-05	2.83E-05
2972	256174.7	4085451	3.36E-04	5.12E-05	2.77E-05
2973	256164.7	4085429	3.30E-04	5.03E-05	2.72E-05
2974	256154.6	4085408	3.24E-04	4.93E-05	2.67E-05
2975	256144.6	4085386	3.17E-04	4.84E-05	2.62E-05
2976	256134.5	4085364	3.11E-04	4.74E-05	2.57E-05
2977	256124.5	4085342	3.05E-04	4.65E-05	2.51E-05
2978	256114.4	4085320	2.99E-04	4.55E-05	2.46E-05
2979	256104.4	4085298	2.93E-04	4.46E-05	2.41E-05
2980	256094.3	4085277	2.88E-04	4.38E-05	2.37E-05
2981	256084.3	4085255	2.82E-04	4.30E-05	2.33E-05
2982	256074.2	4085233	2.78E-04	4.24E-05	2.29E-05
2983	257629.5	4086654	5.16E-04	7.86E-05	4.25E-05
2984	257653.8	4086653	5.11E-04	7.79E-05	4.22E-05
2985	257678.1	4086652	5.07E-04	7.72E-05	4.18E-05
2986	257702.4	4086651	5.02E-04	7.66E-05	4.14E-05
2987	257726.7	4086650	4.98E-04	7.59E-05	4.11E-05
2988	257750.9	4086649	4.94E-04	7.53E-05	4.07E-05
2989	257775.2	4086648	4.90E-04	7.46E-05	4.04E-05
2990	257799.5	4086647	4.85E-04	7.40E-05	4.00E-05
2991	257823.8	4086646	4.81E-04	7.32E-05	3.96E-05
2992	257848.1	4086644	4.76E-04	7.24E-05	3.92E-05
2993	257872.4	4086643	4.70E-04	7.16E-05	3.87E-05
2994	257896.6	4086642	4.64E-04	7.06E-05	3.82E-05
2995	257920.9	4086641	4.57E-04	6.96E-05	3.77E-05
2996	257945.2	4086640	4.50E-04	6.85E-05	3.71E-05
2997	257969.5	4086639	4.42E-04	6.73E-05	3.64E-05
2998	257993.8	4086638	4.34E-04	6.61E-05	3.58E-05
2999	258018	4086637	4.25E-04	6.48E-05	3.51E-05
3000	258042.3	4086636	4.17E-04	6.35E-05	3.43E-05
3001	258066.6	4086635	4.08E-04	6.21E-05	3.36E-05

3002	258090.9	4086634	3.99E-04	6.08E-05	3.29E-05
3003	258115.2	4086633	3.91E-04	5.95E-05	3.22E-05
3004	258139.5	4086632	3.83E-04	5.83E-05	3.16E-05
3005	258163.7	4086630	3.75E-04	5.72E-05	3.09E-05
3006	258188	4086629	3.69E-04	5.61E-05	3.04E-05
3007	258212.3	4086628	3.62E-04	5.52E-05	2.99E-05
3008	258236.6	4086627	3.56E-04	5.43E-05	2.94E-05
3009	258260.9	4086626	3.51E-04	5.34E-05	2.89E-05
3010	258285.1	4086625	3.45E-04	5.26E-05	2.85E-05
3011	258309.4	4086624	3.40E-04	5.18E-05	2.80E-05
3012	258333.7	4086623	3.35E-04	5.10E-05	2.76E-05
3013	258358	4086622	3.30E-04	5.03E-05	2.72E-05
3014	258382.3	4086621	3.25E-04	4.95E-05	2.68E-05
3015	258406.6	4086620	3.20E-04	4.87E-05	2.64E-05
3016	258430.8	4086619	3.15E-04	4.80E-05	2.60E-05

			UnMitigated					2827	T2						T2L3					
								2.44E-07						3.73E-08						1.90E-08
								4085895.32												
			Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Total	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Total	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Total
1	258389.45	4085119.38	2.12E-07	2.84E-06	4.96E-07	4.96E-07	2.76E-07	4.32E-06	3.22E-08	4.32E-07	7.74E-08	7.74E-08	4.25E-08	6.62E-07	1.75E-08	2.34E-07	3.44E-08	3.44E-08	1.70E-08	3.37E-07
2	258388.73	4085094.62	3.39E-07	4.52E-06	7.90E-07	7.90E-07	4.40E-07	6.88E-06	5.14E-08	6.89E-07	1.23E-07	1.23E-07	6.78E-08	1.05E-06	2.79E-08	3.73E-07	5.49E-08	5.49E-08	2.72E-08	5.38E-07
3	258388	4085069.87	4.69E-07	6.27E-06	1.09E-06	1.09E-06	6.10E-07	9.54E-06	7.12E-08	9.55E-07	1.71E-07	1.71E-07	9.40E-08	1.46E-06	3.87E-08	5.17E-07	7.61E-08	7.61E-08	3.76E-08	7.45E-07
4	258387.28	4085045.11	5.52E-07	7.37E-06	1.29E-06	1.29E-06	7.18E-07	1.12E-05	8.38E-08	1.12E-06	2.01E-07	2.01E-07	1.11E-07	1.72E-06	4.55E-08	6.08E-07	8.95E-08	8.95E-08	4.43E-08	8.77E-07
5	258386.56	4085020.36	6.00E-07	8.01E-06	1.40E-06	1.40E-06	7.80E-07	1.22E-05	9.10E-08	1.22E-06	2.18E-07	2.18E-07	1.20E-07	1.87E-06	4.94E-08	6.60E-07	9.72E-08	9.72E-08	4.81E-08	9.52E-07
6	258385.84	4084995.6	6.22E-07	8.31E-06	1.45E-06	1.45E-06	8.10E-07	1.27E-05	9.45E-08	1.27E-06	2.27E-07	2.27E-07	1.25E-07	1.94E-06	5.13E-08	6.85E-07	1.01E-07	1.01E-07	4.99E-08	9.88E-07
7	258385.11	4084970.84	6.23E-07	8.32E-06	1.45E-06	1.45E-06	8.10E-07	1.27E-05	9.45E-08	1.27E-06	2.27E-07	2.27E-07	1.25E-07	1.94E-06	5.13E-08	6.86E-07	1.01E-07	1.01E-07	4.99E-08	9.89E-07
8	258384.39	4084946.09	5.97E-07	7.97E-06	1.39E-06	1.39E-06	7.77E-07	1.21E-05	9.06E-08	1.21E-06	2.17E-07	2.17E-07	1.20E-07	1.86E-06	4.92E-08	6.57E-07	9.68E-08	9.68E-08	4.79E-08	9.48E-07
9	258383.67	4084921.33	5.15E-07	6.88E-06	1.20E-06	1.20E-06	6.70E-07	1.05E-05	7.81E-08	1.05E-06	1.88E-07	1.88E-07	1.03E-07	1.60E-06	4.24E-08	5.67E-07	8.34E-08	8.34E-08	4.13E-08	8.17E-07
10	258407.76	4085136.4	1.31E-07	1.75E-06	3.05E-07	3.05E-07	1.70E-07	2.66E-06	1.98E-08	2.66E-07	4.76E-08	4.76E-08	2.62E-08	4.07E-07	1.08E-08	1.44E-07	2.12E-08	2.12E-08	1.05E-08	2.08E-07
11	258383.88	4085162.1	1.26E-07	1.69E-06	2.94E-07	2.94E-07	1.64E-07	2.56E-06	1.92E-08	2.57E-07	4.60E-08	4.60E-08	2.53E-08	3.93E-07	1.04E-08	1.39E-07	2.05E-08	2.05E-08	1.01E-08	2.00E-07
12	258413.72	4085093.9	2.08E-07	2.78E-06	4.86E-07	4.86E-07	2.71E-07	4.24E-06	3.16E-08	4.24E-07	7.59E-08	7.59E-08	4.17E-08	6.49E-07	1.72E-08	2.29E-07	3.38E-08	3.38E-08	1.67E-08	3.31E-07
13	258412.99	4085069.14	2.80E-07	3.74E-06	6.53E-07	6.53E-07	3.64E-07	5.69E-06	4.25E-08	5.69E-07	1.02E-07	1.02E-07	5.60E-08	8.72E-07	2.31E-08	3.08E-07	4.54E-08	4.54E-08	2.24E-08	4.44E-07
14	258412.27	4085044.38	3.41E-07	4.55E-06	7.95E-07	7.95E-07	4.43E-07	6.93E-06	5.17E-08	6.94E-07	1.24E-07	1.24E-07	6.83E-08	1.06E-06	2.81E-08	3.75E-07	5.52E-08	5.52E-08	2.73E-08	5.41E-07
15	258411.55	4085019.63	3.84E-07	5.13E-06	8.96E-07	8.96E-07	4.99E-07	7.80E-06	5.83E-08	7.81E-07	1.40E-07	1.40E-07	7.69E-08	1.20E-06	3.16E-08	4.23E-07	6.22E-08	6.22E-08	3.08E-08	6.10E-07
16	258410.83	4084994.87	4.10E-07	5.48E-06	9.57E-07	9.57E-07	5.33E-07	8.33E-06	6.22E-08	8.34E-07	1.49E-07	1.49E-07	8.21E-08	1.28E-06	3.38E-08	4.51E-07	6.65E-08	6.65E-08	3.29E-08	6.51E-07
17	258410.1	4084970.11	4.20E-07	5.61E-06	9.80E-07	9.80E-07	5.46E-07	8.54E-06	6.37E-08	8.55E-07	1.53E-07	1.53E-07	8.41E-08	1.31E-06	3.46E-08	4.62E-07	6.81E-08	6.81E-08	3.37E-08	6.67E-07
18	258409.38	4084945.36	4.12E-07	5.50E-06	9.60E-07	9.60E-07	5.35E-07	8.37E-06	6.25E-08	8.38E-07	1.50E-07	1.50E-07	8.24E-08	1.28E-06	3.39E-08	4.53E-07	6.67E-08	6.67E-08	3.30E-08	6.54E-07
19	258408.66	4084920.6	3.82E-07	5.10E-06	8.91E-07	8.91E-07	4.97E-07	7.76E-06	5.80E-08	7.77E-07	1.39E-07	1.39E-07	7.65E-08	1.19E-06	3.15E-08	4.21E-07	6.19E-08	6.19E-08	3.06E-08	6.07E-07
20	258432.75	4085135.67	1.03E-07	1.37E-06	2.40E-07	2.40E-07	1.34E-07	2.09E-06	1.56E-08	2.09E-07	3.75E-08	3.75E-08	2.06E-08	3.21E-07	8.48E-09	1.13E-07	1.67E-08	1.67E-08	8.26E-09	1.63E-07
21	258402.2	4085179.12	9.07E-08	1.21E-06	2.12E-07	2.12E-07	1.18E-07	1.84E-06	1.38E-08	1.85E-07	3.30E-08	3.30E-08	1.82E-08	2.83E-07	7.48E-09	9.99E-08	1.47E-08	1.47E-08	7.28E-09	1.44E-07
22	258438.71	4085093.17	1.48E-07	1.97E-06	3.45E-07	3.45E-07	1.92E-07	3.00E-06	2.24E-08	3.01E-07	5.38E-08	5.38E-08	2.96E-08	4.60E-07	1.22E-08	1.63E-07	2.40E-08	2.40E-08	1.19E-08	2.35E-07
23	258437.98	4085068.41	1.90E-07	2.54E-06	4.43E-07	4.43E-07	2.47E-07	3.86E-06	2.88E-08	3.86E-07	6.92E-08	6.92E-08	3.80E-08	5.92E-07	1.57E-08	2.09E-07	3.08E-08	3.08E-08	1.52E-08	3.01E-07
24	258437.26	4085043.65	2.32E-07	3.10E-06	5.41E-07	5.41E-07	3.01E-07	4.71E-06	3.52E-08	4.72E-07	8.44E-08	8.44E-08	4.64E-08	7.22E-07	1.91E-08	2.55E-07	3.76E-08	3.76E-08	1.86E-08	3.68E-07
25	258436.54	4085018.9	2.67E-07	3.56E-06	6.22E-07	6.22E-07	3.47E-07	5.42E-06	4.05E-08	5.43E-07	9.71E-08	9.71E-08	5.34E-08	8.31E-07	2.20E-08	2.94E-07	4.32E-08	4.32E-08	2.14E-08	4.23E-07
26	258435.82	4084994.14	2.91E-07	3.89E-06	6.80E-07	6.80E-07	3.79E-07	5.92E-06	4.42E-08	5.93E-07	1.06E-07	1.06E-07	5.83E-08	9.08E-07	2.40E-08	3.21E-07	4.72E-08	4.72E-08	2.34E-08	4.63E-07
27	258435.09	4084969.38	3.05E-07	4.07E-06	7.12E-07	7.12E-07	3.97E-07	6.20E-06	4.63E-08	6.21E-07	1.11E-07	1.11E-07	6.11E-08	9.50E-07	2.51E-08	3.36E-07	4.94E-08	4.94E-08	2.45E-08	4.84E-07
28	258434.37	4084944.63	3.07E-07	4.10E-06	7.15E-07	7.15E-07	3.99E-07	6.23E-06	4.65E-08	6.24E-07	1.12E-07	1.12E-07	6.14E-08	9.55E-07	2.53E-08	3.38E-07	4.97E-08	4.97E-08	2.46E-08	4.87E-07
29	258433.65	4084919.87	2.96E-07	3.96E-06	6.91E-07	6.91E-07	3.85E-07	6.02E-06	4.50E-08	6.03E-07	1.08E-07	1.08E-07	5.93E-08	9.23E-07	2.44E-08	3.26E-07	4.80E-08	4.80E-08	2.38E-08	4.71E-07
30	258457.74	4085134.94	8.40E-08	1.12E-06	1.96E-07	1.96E-07	1.09E-07	1.71E-06	1.28E-08	1.71E-07	3.06E-08	3.06E-08	1.68E-08	2.62E-07	6.93E-09	9.25E-08	1.36E-08	1.36E-08	6.74E-09	1.33E-07
31	258444.39	4085170.43	7.11E-08	9.49E-07	1.66E-07	1.66E-07	9.24E-08	1.44E-06	1.08E-08	1.45E-07	2.59E-08	2.59E-08	1.42E-08	2.21E-07	5.86E-09	7.82E-08	1.15E-08	1.15E-08	5.70E-09	1.13E-07
32	258420.51	4085196.14	6.97E-08	9.31E-07	1.63E-07	1.63E-07	9.07E-08	1.42E-06	1.06E-08	1.42E-07	2.54E-08	2.54E-08	1.40E-08	2.17E-07	5.75E-09	7.68E-08	1.13E-08	1.13E-08	5.59E-09	1.11E-07
33	258386.09	4085212.05	7.83E-08	1.05E-06	1.83E-07	1.83E-07	1.02E-07	1.59E-06	1.19E-08	1.59E-07	2.85E-08	2.85E-08	1.57E-08	2.44E-07	6.45E-09	8.62E-08	1.27E-08	1.27E-08	6.28E-09	1.24E-07
34	258463.69	4085092.44	1.13E-07	1.51E-06	2.64E-07	2.64E-07	1.47E-07	2.30E-06	1.72E-08	2.31E-07	4.13E-08	4.13E-08	2.27E-08	3.53E-07	9.34E-09	1.25E-07	1.84E-08	1.84E-08	9.09E-09	1.80E-07
35	258462.97	4085067.68	1.40E-07	1.87E-06	3.27E-07	3.27E-07	1.82E-07	2.85E-06	2.13E-08	2.85E-07	5.11E-08	5.11E-08	2.81E-08	4.37E-07	1.16E-08	1.54E-07	2.27E-08	2.27E-08	1.12E-08	2.23E-07
36	258462.25	4085042.92	1.69E-07	2.26E-06	3.94E-07	3.94E-07	2.20E-07	3.44E-06	2.57E-08	3.44E-07	6.16E-08	6.16E-08	3.39E-08	5.27E-07	1.39E-08	1.86E-07	2.74E-08	2.74E-08	1.36E-08	2.68E-07
37	258461.53	4085018.17	1.96E-07	2.61E-06	4.57E-07	4.57E-07	2.55E-07	3.98E-06	2.97E-08	3.98E-07	7.13E-08	7.13E-08	3.92E-08	6.10E-07	1.61E-08	2.16E-07	3.17E-08	3.17E-08	1.57E-08	3.11E-07
38	258460.8	4084993.41	2.17E-07	2.90E-06	5.07E-07	5.07E-07	2.82E-07	4.41E-06	3.30E-08	4.42E-07	7.91E-08	7.91E-08	4.35E-08	6.77E-07	1.79E-08	2.39E-07	3.52E-08	3.52E-08	1.74E-08	3.45E-07
39	258460.08	4084968.66	2.32E-07	3.09E-06	5.40E-07	5.40E-07	3.01E-07	4.71E-06	3.51E-08	4.71E-07	8.43E-08	8.43E-08	4.64E-08	7.21E-07	1.91E-08	2.55E-07	3.75E-08	3.75E-08	1.86E-08	3.68E-07
40	258459.36	4084943.9	2.38E-07	3.18E-06	5.55E-07	5.55E-07	3.09E-07	4.83E-06	3.61E-08	4.84E-07	8.66E-08	8.66E-08	4.76E-08	7.41E-07	1.96E-08	2.62E-07	3.85E-08	3.85E-08	1.91E-08	3.77E-07
41	258458.64	4084919.14	2.35E-07	3.14E-06	5.48E-07	5.48E-07	3.05E-07	4.77E-06	3.56E-08	4.78E-07	8.55E-08	8.55E-08	4.70E-08	7.31E-07	1.94E-08	2.58E-07	3.81E-08	3.81E-08	1.88E-08	3.73E-07
42	258506.39	4085137.03	5.95E-08	7.94E-07	1.39E-07	1.39E-07	7.74E-08	1.21E-06	9.03E-09	1.21E-07	2.17E-08	2.17E-08	1.19E-08	1.85E-07	4.90E-09	6.55E-08	9.64E-09	9.64E-09	4.77E-09	9.44E-08
43	258498.38	4085158.32	5.49E-08	7.34E-07	1.28E-07	1.28E-07	7.15E-08	1.12E-06	8.34E-09	1.12E-07	2.00E-08	2.00E-08	1.10E-08	1.71E-07	4.53E-09	6.05E-08	8.90E-09	8.90E-09	4.41E-09	8.72E-08
44	258490.37	4085179.62	5.08E-08	6.78E-07	1.19E-07	1.19E-07	6.61E-08	1.03E-06	7.71E-09	1.03E-07	1.85E-08	1.85E-08	1.02E-08	1.58E-07	4.19E-09	5.59E-08	8.23E-09	8.23E-09	4.08E-09	8.07E-08
45	258482.36	4085200.92	4.71E-08	6.29E-07	1.10E-07	1.10E-07	6.13E-08	9.58E-07	7.15E-09	9.59E-08	1.72E-08	1.72E-08	9.44E-09	1.47E-07	3.88E-09	5.19E-08	7.64E-09	7.64E-09	3.78E-09	7.48E-08
46	258453.7	4085231.76	4.64E-08	6.20E-07	1.08E-07	1.08E-07	6.04E-08	9.43E-07	7.04E-09	9.44E-08	1.69E-08	1.69E-08	9.29E-09	1.45E-07	3.83E-09	5.11E-08	7.52E-09	7.52E-09	3.72E-09	7.37E-08
47	258433.05	4085241.31	4.91E-08	6.56E-07	1.15E-07	1.15E-07	6.39E-08	9.98E-07	7.45E-09	9.99E-08	1.79E-08	1.79E-08	9.84E-09	1.53E-07	4.05E-09	5.41E-08	7.96E-09	7.96E-09	3.94E-09	7.80E-08
48	258412.4	4085250.86	5.19E-08	6.93E-07	1.21E-07	1.21E-07	6.75E-08	1.05E-06	7.87E-09	1.06E-07	1.89E-08	1.89E-08	1.04E-08	1.62E-07	4.28E-09	5.71E-08	8.41E-09	8.41E-09	4.16E-09	8.24E-08
49	258391.75	4085260.41	5.47E-08	7.30E-07	1.28E-07	1.28E-07	7.11E-08	1.11E-06	8.30E-09	1.11E-07	1.99E-08	1.99E-08	1.09E-08	1.70E-07	4.51E-09	6.02E-08	8.86E-09	8.86E-09	4.39E-09	8.68E-08
50	258514.4	4085115.73	6.43E-08	8.59E-07	1.50E-07	1.50E-07	8.36E-08	1.31E-06	9.76E-09	1.31E-07	2.34E-08	2.34E-08	1.29E-08	2.00E-07	5.30E-09	7.08E-08	1.04E-08	1.04E-08	5.16E-09	1.02E-07
51	258513.67	4085090.98	7.53E-08	1.01E-06	1.76E-07	1.76E-07	9.79E-08	1.53E-06	1.14E-08	1.53E-07	2.74E-08	2.74E-08	1.51E-08	2.34E-07	6.20E-09	8.29E-08	1.22E-08	1.22E-08	6.04E-09	1.20E-07
52	258512.95	4085066.22	8.84E-08	1.18E-06	2.06E-07	2.06E-07	1.15E-07	1.80E-06	1.34E-08	1.80E-07	3.22E-08	3.22E-08	1.77E-08	2.76E-07	7.29E-09	9.74E-08	1.43E-08	1.43E-08	7.10E-09	1.40E-07
53	258512.23	4085041.47	1.03E-07	1.38E-06	2.41E-07	2.41E-07	1.34E-07	2.10E-06	1.57E-08	2.10E-07	3.76E-08	3.76E-08	2.07E-08	3.22E-07	8.51E-09	1.14E-07	1.67E-08	1.67E-08	8.28E-09	1.64E-07
54	258511.51	4085016.71	1.19E-07	1.58E-06	2.77E-07	2.77E-07	1.54E-07	2.41E-06	1.80E-08	2.41E-07	4.32E-08	4.32E-08	2.37E-08	3.69E-07	9.77E-09	1.31E-07	1.92E-08	1.92E-08	9.51E-09	1.88E-07
55	258510.78	4084991.95	1.33E-07	1.77E-06	3.10E-07	3.10E-07	1.73E-07	2.70E-06	2.02E-08	2.70E-07	4.84E-08	4.84E-08	2.66E-08	4.14E-07	1.09E-08	1.46E-07	2.15E-08	2.15E-08	1.07E-08	2.11E-07
56	258510.06	4084967.2	1.45E-07	1.93E-06	3.37E-07	3.37E-07	1.88E-07	2.94E-06	2.19E-08	2.94E-07	5.27E-08	5.27E-08	2.90E-08	4.51E-07	1.19E-08	1.59E-07	2.34E-08	2.34E-08	1.16E-08	2.30E-07
57	258509.34	4084942.44	1.53E-07	2.04E-06	3.57E-07	3.57E-07	1.99E-07	3.11E-06	2.32E-08	3.11E-07	5.57E-08	5.57E-08	3.06E-08	4.77E-07	1.26E-08	1.68E-07	2.48E-08	2.48E-08	1.23E-08	2.43E-07
58	258508.62	4084917.68	1.57E-07	2.10E-06	3.67E-07	3.67E-07	2.05E-07	3.20E-06	2.39E-08	3.20E-07	5.73E-08	5.73E-08	3.15E-08	4.90E-07	1.30E-08	1.73E-07	2.55E-08	2.55E-08	1.26E-08	2.50E-07
59	258556.75	4085134.56	4.56E-08	6.09E-07	1.06E-07	1.06E-07	5.93E-08	9.26E-07	6.92E-09	9.27E-08	1.66E-08	1.66E-08	9.13E-09	1.42E-07	3.76E-09	5.02E-08	7.39E-09	7.39E-09	3.66E-09	7.24E-08
60	258541.49	4085175.12	4.03E-08	5.39E-07	9.41E-08	9.41E-08	5.25E-08	8.20E-07	6.12E-09	8.21E-08	1.47E-08	1.47E-08	8.08E-09	1.26E-07	3.32E-09	4.44E-08	6.54E-09	6.54E-09	3.24E-09	6.40E-08
61	258526.23	4085215.68	3.57E-08	4.77E-07	8.32E-08	8.32E-08	4.64E-08	7.25E-07	5.41E-09	7.26E-08	1.30E-08	1.30E-08	7.15E-09	1.11E-07	2.94E-09	3.93E-08	5.78E-09	5.78E-09	2.86E-09	5.66E-08
62	258491.31	4085265.34	3.33E-08	4.44E-07	7.76E-08	7.76E-08	4.33E-08	6.76E-07	5.05E-09	6.77E-08	1.21E-08	1.21E-08	6.66E-09	1.04E-07	2.74E-09	3.66E-08	5.39E-09	5.39E-09	2.67E-09	5.28E-08
63	258451.98	4085283.53	3.64E-08	4.87E-07	8.50E-08	8.50E-08	4.74E-08	7.41E-07	5.53E-09	7.42E-08	1.33E-08	1.33E-08	7.30E-09	1.14E-07	3.00E-09	4.01E-08	5.91E-09	5.91E-09	2.92E-09	5.79E-08
64	258412.64	4085301.72	3.97E-08	5.30E-07	9.26E-08	9.26E-08	5.16E-08	8.06E-07	6.02E-09	8.07E-08	1.45E-08	1.45E-08	7.95E-09	1.24E-07	3.27E-09	4.37E-08	6.43E-09	6.43E-09	3.18E-09	6.30E-08
65	258563.65	4085089.52	5.48E-08	7.32E-07	1.28E-07	1.28E-07	7.13E-08	1.11E-06	8.31E-09	1.11E-07	2.00E-08	2.00E-08	1.10E-08	1.71E-07	4.52E-09	6.03E-08	8.88E-09	8.88E-09	4.39E-09	8.70E-08
66	258562.93	4085064.76	6.23E-08	8.33E-07	1.45E-07	1.45E-07	8.11E-08	1.27E-06	9.46E-09	1.27E-07	2.27E-08	2.27E-08	1.25E-08	1.94E-07	5.14E-09	6.86E-08	1.01E-08	1.01E-08	5.00E-09	9.90E-08
67	258562.21	4085040.01	7.08E-08	9.46E-07	1.65E-07	1.65E-07	9.21E-08	1.44E-06	1.07E-08	1.44E-07	2.58E-08	2.58E-08	1.42E-08	2.21E-07	5.84E-09	7.80E-08	1.15E-08	1.15E-08	5.68E-09	1.12E-07
68	258561.48	4085015.25	8.00E-08	1.07E-06	1.87E-07	1.87E-07	1.04E-07	1.63E-06	1.21E-08	1.63E-07	2.91E-08	2.91E-08	1.60E-08	2.49E-07	6.59E-09	8.80E-08	1.30E-08	1.30E-08	6.41E-09	1.27E-07
69	258560.76	4084990.49	8.91E-08	1.19E-06	2.08E-07	2.08E-07	1.16E-07	1.81E-06	1.35E-08	1.81E-07	3.25E-08	3.25E-08	1.78E-08	2.78E-07	7.35E-09	9.81E-08	1.44E-08	1.44E-08	7.15E-09	1.42E-07
70	258560.04	4084965.74	9.77E-08	1.30E-06	2.28E-07	2.28E-07	1.27E-07	1.99E-06	1.48E-08	1.99E-07	3.56E-08	3.56E-08	1.96E-08	3.04E-07	8.05E-09	1.08E-07	1.58E-08	1.58E-08	7.84E-09	1.55E-07
71	258559.32	4084940.98	1.05E-07	1.40E-06	2.45E-07	2.45E-07	1.37E-07	2.13E-06	1.59E-08	2.14E-07	3.82E-08	3.82E-08	2.10E-08	3.27E-07	8.65E-09	1.16E-07	1.70E-08	1.70E-08	8.42E-09	1.67E-07
72	258558.59	4084916.23	1.10E-07	1.47E-06	2.57E-07	2.57E-07	1.44E-07	2.24E-06	1.67E-08	2.25E-07	4.02E-08	4.02E-08	2.21E-08	3.44E-07	9.10E-09	1.22E-07	1.79E-08	1.79E-08	8.85E-09	1.75E-07
73	258606.01	4085135	3.60E-08	4.81E-07	8.39E-08	8.39E-08	4.68E-08	7.31E-07	5.46E-09	7.32E-08	1.31E-08	1.31E-08	7.20E-09	1.12E-07	2.97E-09	3.96E-08	5.83E-09	5.83E-09	2.89E-09	5.71E-08
74	258597.67	4085157.18	3.41E-08	4.55E-07	7.95E-08	7.95E-08	4.43E-08	6.92E-07	5.17E-09	6.93E-08	1.24E-08	1.24E-08	6.82E-09	1.06E-07	2.81E-09	3.75E-08	5.52E-09	5.52E-09	2.73E-09	5.41E-08
75	258589.32	4085179.36	3.22E-08	4.30E-07	7.51E-08	7.51E-08	4.19E-08	6.54E-07	4.89E-09	6.55E-08	1.17E-08	1.17E-08	6.45E-09	1.00E-07	2.65E-09	3.54E-08	5.22E-09	5.22E-09	2.58E-09	5.11E-08
76	258580.98	4085201.55	3.04E-08	4.06E-07	7.09E-08	7.09E-08	3.95E-08	6.17E-07	4.61E-09	6.18E-08	1.11E-08	1.11E-08	6.08E-09	9.46E-08	2.50E-09	3.34E-08	4.92E-09	4.92E-09	2.44E-09	4.82E-08
77	258572.64	4085223.73	2.87E-08	3.83E-07	6.69E-08	6.69E-08	3.73E-08	5.83E-07	4.35E-09	5.83E-08	1.04E-08	1.04E-08	5.74E-09	8.93E-08	2.36E-09	3.16E-08	4.65E-09	4.65E-09	2.30E-09	4.55E-08
78	258564.29	4085245.91	2.71E-08	3.62E-07	6.32E-08	6.32E-08	3.52E-08	5.50E-07	4.11E-09	5.51E-08	9.86E-09	9.86E-09	5.42E-09	8.44E-08	2.23E-09	2.98E-08	4.39E-09	4.39E-09	2.17E-09	4.30E-08
79	258555.95	4085268.1	2.56E-08	3.42E-07	5.98E-08	5.98E-08	3.33E-08	5.21E-07	3.89E-09	5.22E-08	9.34E-09	9.34E-09	5.13E-09	7.99E-08	2.11E-09	2.82E-08	4.15E-09	4.15E-09	2.06E-09	4.07E-08
80	258526.1	4085300.23	2.54E-08	3.39E-07	5.92E-08	5.92E-08	3.30E-08	5.15E-07	3.85E-09	5.16E-08	9.24E-09	9.24E-09	5.08E-09	7.90E-08	2.09E-09	2.79E-08	4.11E-09	4.11E-09	2.03E-09	4.03E-08
81	258504.59	4085310.17	2.65E-08	3.54E-07	6.18E-08	6.18E-08	3.44E-08	5.38E-07	4.02E-09	5.39E-08	9.65E-09	9.65E-09	5.30E-09	8.25E-08	2.18E-09	2.92E-08	4.29E-09	4.29E-09	2.12E-09	4.21E-08
82	258483.08	4085320.12	2.77E-08	3.70E-07	6.46E-08	6.46E-08	3.60E-08	5.63E-07	4.20E-09	5.63E-08	1.01E-08	1.01E-08	5.54E-09	8.63E-08	2.28E-09	3.05E-08	4.49E-09	4.49E-09	2.22E-09	4.40E-08
83	258461.56	4085330.07	2.89E-08	3.86E-07	6.74E-08	6.74E-08	3.76E-08	5.87E-07	4.39E-09	5.88E-08	1.05E-08	1.05E-08	5.79E-09	9.00E-08	2.38E-09	3.18E-08	4.68E-09	4.68E-09	2.32E-09	4.59E-08
84	258440.05	4085340.02	3.01E-08	4.02E-07	7.01E-08	7.01E-08	3.91E-08	6.11E-07	4.56E-09	6.12E-08	1.10E-08	1.10E-08	6.02E-09	9.37E-08	2.48E-09	3.31E-08	4.87E-09	4.87E-09	2.41E-09	4.77E-08
85	258418.54	4085349.97	3.12E-08	4.17E-07	7.29E-08	7.29E-08	4.06E-08	6.35E-07	4.74E-09	6.35E-08	1.14E-08	1.14E-08	6.25E-09	9.73E-08	2.57E-09	3.44E-08	5.06E-09	5.06E-09	2.51E-09	4.96E-08
86	258397.03	4085359.92	3.24E-08	4.33E-07	7.57E-08	7.57E-08	4.22E-08	6.59E-07	4.92E-09	6.60E-08	1.18E-08	1.18E-08	6.50E-09	1.01E-07	2.67E-09	3.57E-08	5.26E-09	5.26E-09	2.60E-09	5.15E-08
87	258614.35	4085112.82	3.79E-08	5.06E-07	8.84E-08	8.84E-08	4.93E-08	7.70E-07	5.75E-09	7.71E-08	1.38E-08	1.38E-08	7.59E-09	1.18E-07	3.12E-09	4.17E-08	6.14E-09	6.14E-09	3.04E-09	6.01E-08
88	258613.63	4085088.06	4.21E-08	5.62E-07	9.81E-08	9.81E-08	5.47E-08	8.55E-07	6.38E-09	8.56E-08	1.53E-08	1.53E-08	8.42E-09	1.31E-07	3.47E-09	4.63E-08	6.82E-09	6.82E-09	3.37E-09	6.68E-08
89	258612.91	4085063.3	4.68E-08	6.25E-07	1.09E-07	1.09E-07	6.09E-08	9.52E-07	7.11E-09	9.53E-08	1.71E-08	1.71E-08	9.38E-09	1.46E-07	3.86E-09	5.16E-08	7.59E-09	7.59E-09	3.76E-09	7.44E-08
90	258612.19	4085038.55	5.22E-08	6.97E-07	1.22E-07	1.22E-07	6.78E-08	1.06E-06	7.92E-09	1.06E-07	1.90E-08	1.90E-08	1.04E-08	1.63E-07	4.30E-09	5.74E-08	8.45E-09	8.45E-09	4.18E-09	8.28E-08
91	258611.46	4085013.79	5.80E-08	7.74E-07	1.35E-07	1.35E-07	7.54E-08	1.18E-06	8.80E-09	1.18E-07	2.11E-08	2.11E-08	1.16E-08	1.81E-07	4.78E-09	6.38E-08	9.39E-09	9.39E-09	4.65E-09	9.20E-08
92	258610.74	4084989.04	6.40E-08	8.55E-07	1.49E-07	1.49E-07	8.32E-08	1.30E-06	9.71E-09	1.30E-07	2.33E-08	2.33E-08	1.28E-08	1.99E-07	5.28E-09	7.05E-08	1.04E-08	1.04E-08	5.13E-09	1.02E-07
93	258610.02	4084964.28	7.00E-08	9.35E-07	1.63E-07	1.63E-07	9.10E-08	1.42E-06	1.06E-08	1.42E-07	2.55E-08	2.55E-08	1.40E-08	2.18E-07	5.77E-09	7.71E-08	1.13E-08	1.13E-08	5.62E-09	1.11E-07
94	258609.3	4084939.52	7.56E-08	1.01E-06	1.76E-07	1.76E-07	9.84E-08	1.54E-06	1.15E-08	1.54E-07	2.75E-08	2.75E-08	1.51E-08	2.36E-07	6.23E-09	8.33E-08	1.23E-08	1.23E-08	6.07E-09	1.20E-07
95	258608.57	4084914.77	8.05E-08	1.07E-06	1.88E-07	1.88E-07	1.05E-07	1.64E-06	1.22E-08	1.64E-07	2.93E-08	2.93E-08	1.61E-08	2.51E-07	6.63E-09	8.86E-08	1.30E-08	1.30E-08	6.45E-09	1.28E-07
96	258656.32	4085132.65	2.94E-08	3.93E-07	6.86E-08	6.86E-08	3.82E-08	5.97E-07	4.46E-09	5.98E-08	1.07E-08	1.07E-08	5.89E-09	9.16E-08	2.42E-09	3.24E-08	4.76E-09	4.76E-09	2.36E-09	4.67E-08
97	258648.31	4085153.95	2.81E-08	3.76E-07	6.57E-08	6.57E-08	3.66E-08	5.72E-07	4.27E-09	5.73E-08	1.03E-08	1.03E-08	5.64E-09	8.77E-08	2.32E-09	3.10E-08	4.56E-09	4.56E-09	2.26E-09	4.47E-08
98	258640.3	4085175.24	2.69E-08	3.59E-07	6.27E-08	6.27E-08	3.50E-08	5.46E-07	4.08E-09	5.47E-08	9.79E-09	9.79E-09	5.38E-09	8.38E-08	2.22E-09	2.96E-08	4.36E-09	4.36E-09	2.16E-09	4.27E-08
99	258632.29	4085196.54	2.56E-08	3.42E-07	5.98E-08	5.98E-08	3.33E-08	5.21E-07	3.89E-09	5.22E-08	9.34E-09	9.34E-09	5.13E-09	7.99E-08	2.11E-09	2.82E-08	4.15E-09	4.15E-09	2.06E-09	4.07E-08
100	258624.28	4085217.83	2.44E-08	3.26E-07	5.70E-08	5.70E-08	3.18E-08	4.96E-07	3.71E-09	4.97E-08	8.89E-09	8.89E-09	4.89E-09	7.61E-08	2.01E-09	2.69E-08	3.96E-09	3.96E-09	1.96E-09	3.88E-08
101	258616.27	4085239.13	2.33E-08	3.11E-07	5.42E-08	5.42E-08	3.02E-08	4.73E-07	3.53E-09	4.73E-08	8.47E-09	8.47E-09	4.66E-09	7.24E-08	1.92E-09	2.56E-08	3.77E-09	3.77E-09	1.87E-09	3.69E-08
102	258608.27	4085260.43	2.22E-08	2.96E-07	5.17E-08	5.17E-08	2.88E-08	4.50E-07	3.36E-09	4.51E-08	8.07E-09	8.07E-09	4.44E-09	6.90E-08	1.83E-09	2.44E-08	3.59E-09	3.59E-09	1.78E-09	3.52E-08
103	258600.26	4085281.72	2.11E-08	2.82E-07	4.93E-08	4.93E-08	2.75E-08	4.29E-07	3.21E-09	4.30E-08	7.70E-09	7.70E-09	4.23E-09	6.58E-08	1.74E-09	2.33E-08	3.42E-09	3.42E-09	1.69E-09	3.35E-08
104	258592.25	4085303.02	2.02E-08	2.70E-07	4.71E-08	4.71E-08	2.63E-08	4.10E-07	3.06E-09	4.11E-08	7.35E-09	7.35E-09	4.04E-09	6.29E-08	1.66E-09	2.22E-08	3.27E-09	3.27E-09	1.62E-09	3.21E-08
105	258563.59	4085333.86	2.00E-08	2.67E-07	4.67E-08	4.67E-08	2.60E-08	4.07E-07	3.04E-09	4.07E-08	7.29E-09	7.29E-09	4.01E-09	6.23E-08	1.65E-09	2.20E-08	3.24E-09	3.24E-09	1.60E-09	3.18E-08
106	258542.94	4085343.41	2.07E-08	2.77E-07	4.84E-08	4.84E-08	2.70E-08	4.21E-07	3.15E-09	4.22E-08	7.55E-09	7.55E-09	4.15E-09	6.46E-08	1.71E-09	2.28E-08	3.36E-09	3.36E-09	1.66E-09	3.29E-08
107	258522.29	4085352.96	2.15E-08	2.88E-07	5.03E-08	5.03E-08	2.80E-08	4.38E-07	3.27E-09	4.38E-08	7.85E-09	7.85E-09	4.31E-09	6.71E-08	1.78E-09	2.37E-08	3.49E-09	3.49E-09	1.73E-09	3.42E-08
108	258501.64	4085362.51	2.24E-08	2.99E-07	5.22E-08	5.22E-08	2.91E-08	4.55E-07	3.40E-09	4.55E-08	8.15E-09	8.15E-09	4.48E-09	6.97E-08	1.84E-09	2.46E-08	3.63E-09	3.63E-09	1.80E-09	3.55E-08
109	258480.99	4085372.06	2.32E-08	3.10E-07	5.42E-08	5.42E-08	3.02E-08	4.72E-07	3.52E-09	4.72E-08	8.45E-09	8.45E-09	4.65E-09	7.23E-08	1.91E-09	2.56E-08	3.76E-09	3.76E-09	1.86E-09	3.69E-08
110	258460.34	4085381.61	2.40E-08	3.21E-07	5.60E-08	5.60E-08	3.12E-08	4.88E-07	3.64E-09	4.88E-08	8.74E-09	8.74E-09	4.81E-09	7.48E-08	1.98E-09	2.64E-08	3.89E-09	3.89E-09	1.93E-09	3.81E-08
111	258439.68	4085391.16	2.48E-08	3.31E-07	5.78E-08	5.78E-08	3.22E-08	5.04E-07	3.76E-09	5.04E-08	9.03E-09	9.03E-09	4.96E-09	7.72E-08	2.04E-09	2.73E-08	4.02E-09	4.02E-09	1.99E-09	3.93E-08
112	258419.03	4085400.72	2.56E-08	3.42E-07	5.96E-08	5.96E-08	3.33E-08	5.20E-07	3.88E-09	5.20E-08	9.31E-09	9.31E-09	5.12E-09	7.97E-08	2.11E-09	2.81E-08	4.14E-09	4.14E-09	2.05E-09	4.06E-08
113	258398.38	4085410.27	2.64E-08	3.53E-07	6.16E-08	6.16E-08	3.43E-08	5.37E-07	4.01E-09	5.37E-08	9.62E-09	9.62E-09	5.29E-09	8.22E-08	2.18E-09	2.91E-08	4.28E-09	4.28E-09	2.12E-09	4.19E-08
114	258664.33	4085111.36	3.06E-08	4.09E-07	7.15E-08	7.15E-08	3.98E-08	6.23E-07	4.65E-09	6.23E-08	1.12E-08	1.12E-08	6.13E-09	9.54E-08	2.53E-09	3.37E-08	4.96E-09	4.96E-09	2.46E-09	4.86E-08
115	258663.61	4085086.6	3.35E-08	4.47E-07	7.81E-08	7.81E-08	4.36E-08	6.81E-07	5.08E-09	6.82E-08	1.22E-08	1.22E-08	6.71E-09	1.04E-07	2.76E-09	3.69E-08	5.43E-09	5.43E-09	2.69E-09	5.32E-08
116	258662.89	4085061.85	3.67E-08	4.90E-07	8.57E-08	8.57E-08	4.78E-08	7.46E-07	5.57E-09	7.47E-08	1.34E-08	1.34E-08	7.35E-09	1.14E-07	3.03E-09	4.04E-08	5.95E-09	5.95E-09	2.95E-09	5.83E-08
117	258662.16	4085037.09	4.03E-08	5.38E-07	9.40E-08	9.40E-08	5.24E-08	8.19E-07	6.12E-09	8.20E-08	1.47E-08	1.47E-08	8.07E-09	1.26E-07	3.32E-09	4.44E-08	6.53E-09	6.53E-09	3.23E-09	6.40E-08
118	258661.44	4085012.33	4.42E-08	5.90E-07	1.03E-07	1.03E-07	5.75E-08	8.98E-07	6.71E-09	8.99E-08	1.61E-08	1.61E-08	8.85E-09	1.38E-07	3.64E-09	4.87E-08	7.16E-09	7.16E-09	3.54E-09	7.02E-08
119	258660.72	4084987.58	4.83E-08	6.45E-07	1.13E-07	1.13E-07	6.28E-08	9.82E-07	7.33E-09	9.83E-08	1.76E-08	1.76E-08	9.68E-09	1.51E-07	3.98E-09	5.32E-08	7.83E-09	7.83E-09	3.88E-09	7.67E-08

120	258660	4084962.82	5.26E-08	7.02E-07	1.23E-07	1.23E-07	6.84E-08	1.07E-06	7.98E-09	1.07E-07	1.91E-08	1.91E-08	1.05E-08	1.64E-07	4.33E-09	5.79E-08	8.52E-09	8.52E-09	4.22E-09	8.35E-08
121	258659.27	4084938.06	5.68E-08	7.58E-07	1.32E-07	1.32E-07	7.38E-08	1.15E-06	8.62E-09	1.16E-07	2.07E-08	2.07E-08	1.14E-08	1.77E-07	4.68E-09	6.25E-08	9.20E-09	9.20E-09	4.55E-09	9.01E-08
122	258658.55	4084913.31	6.07E-08	8.11E-07	1.42E-07	1.42E-07	7.89E-08	1.23E-06	9.21E-09	1.23E-07	2.21E-08	2.21E-08	1.22E-08	1.89E-07	5.00E-09	6.68E-08	9.83E-09	9.83E-09	4.87E-09	9.64E-08
123	258756.07	4085130.28	2.08E-08	2.77E-07	4.85E-08	4.85E-08	2.70E-08	4.22E-07	3.15E-09	4.23E-08	7.57E-09	7.57E-09	4.16E-09	6.47E-08	1.71E-09	2.29E-08	3.37E-09	3.37E-09	1.67E-09	3.30E-08
124	258747.86	4085152.12	2.01E-08	2.68E-07	4.69E-08	4.69E-08	2.61E-08	4.08E-07	3.05E-09	4.09E-08	7.32E-09	7.32E-09	4.02E-09	6.26E-08	1.66E-09	2.21E-08	3.26E-09	3.26E-09	1.61E-09	3.19E-08
125	258739.64	4085173.97	1.94E-08	2.59E-07	4.53E-08	4.53E-08	2.52E-08	3.94E-07	2.94E-09	3.95E-08	7.07E-09	7.07E-09	3.89E-09	6.04E-08	1.60E-09	2.14E-08	3.14E-09	3.14E-09	1.56E-09	3.08E-08
126	258731.43	4085195.81	1.87E-08	2.50E-07	4.36E-08	4.36E-08	2.43E-08	3.80E-07	2.84E-09	3.80E-08	6.81E-09	6.81E-09	3.74E-09	5.82E-08	1.54E-09	2.06E-08	3.03E-09	3.03E-09	1.50E-09	2.97E-08
127	258723.22	4085217.65	1.80E-08	2.40E-07	4.20E-08	4.20E-08	2.34E-08	3.66E-07	2.73E-09	3.66E-08	6.55E-09	6.55E-09	3.60E-09	5.60E-08	1.48E-09	1.98E-08	2.92E-09	2.92E-09	1.44E-09	2.86E-08
128	258715	4085239.49	1.73E-08	2.31E-07	4.04E-08	4.04E-08	2.25E-08	3.52E-07	2.62E-09	3.52E-08	6.30E-09	6.30E-09	3.46E-09	5.39E-08	1.43E-09	1.90E-08	2.80E-09	2.80E-09	1.39E-09	2.75E-08
129	258706.79	4085261.33	1.66E-08	2.22E-07	3.88E-08	3.88E-08	2.16E-08	3.38E-07	2.52E-09	3.38E-08	6.05E-09	6.05E-09	3.33E-09	5.18E-08	1.37E-09	1.83E-08	2.69E-09	2.69E-09	1.33E-09	2.64E-08
130	258698.57	4085283.17	1.60E-08	2.13E-07	3.73E-08	3.73E-08	2.08E-08	3.25E-07	2.42E-09	3.25E-08	5.82E-09	5.82E-09	3.20E-09	4.98E-08	1.32E-09	1.76E-08	2.59E-09	2.59E-09	1.28E-09	2.54E-08
131	258690.36	4085305.01	1.53E-08	2.05E-07	3.58E-08	3.58E-08	1.99E-08	3.12E-07	2.33E-09	3.12E-08	5.58E-09	5.58E-09	3.07E-09	4.78E-08	1.26E-09	1.69E-08	2.48E-09	2.48E-09	1.23E-09	2.43E-08
132	258682.14	4085326.85	1.47E-08	1.96E-07	3.43E-08	3.43E-08	1.91E-08	2.99E-07	2.23E-09	2.99E-08	5.36E-09	5.36E-09	2.95E-09	4.58E-08	1.21E-09	1.62E-08	2.38E-09	2.38E-09	1.18E-09	2.34E-08
133	258673.93	4085348.7	1.42E-08	1.89E-07	3.31E-08	3.31E-08	1.85E-08	2.88E-07	2.15E-09	2.89E-08	5.17E-09	5.17E-09	2.84E-09	4.42E-08	1.17E-09	1.56E-08	2.30E-09	2.30E-09	1.14E-09	2.25E-08
134	258665.71	4085370.54	1.37E-08	1.82E-07	3.19E-08	3.19E-08	1.78E-08	2.78E-07	2.07E-09	2.78E-08	4.98E-09	4.98E-09	2.74E-09	4.26E-08	1.13E-09	1.50E-08	2.21E-09	2.21E-09	1.10E-09	2.17E-08
135	258636.32	4085402.17	1.36E-08	1.82E-07	3.17E-08	3.17E-08	1.77E-08	2.76E-07	2.06E-09	2.77E-08	4.95E-09	4.95E-09	2.72E-09	4.23E-08	1.12E-09	1.50E-08	2.20E-09	2.20E-09	1.09E-09	2.16E-08
136	258615.14	4085411.97	1.40E-08	1.87E-07	3.26E-08	3.26E-08	1.82E-08	2.84E-07	2.12E-09	2.85E-08	5.09E-09	5.09E-09	2.80E-09	4.36E-08	1.15E-09	1.54E-08	2.27E-09	2.27E-09	1.12E-09	2.22E-08
137	258593.96	4085421.76	1.44E-08	1.93E-07	3.37E-08	3.37E-08	1.88E-08	2.93E-07	2.19E-09	2.94E-08	5.25E-09	5.25E-09	2.89E-09	4.49E-08	1.19E-09	1.59E-08	2.34E-09	2.34E-09	1.16E-09	2.29E-08
138	258572.78	4085431.56	1.49E-08	1.99E-07	3.48E-08	3.48E-08	1.94E-08	3.03E-07	2.26E-09	3.03E-08	5.43E-09	5.43E-09	2.98E-09	4.64E-08	1.23E-09	1.64E-08	2.42E-09	2.42E-09	1.20E-09	2.37E-08
139	258551.6	4085441.36	1.54E-08	2.06E-07	3.60E-08	3.60E-08	2.00E-08	3.13E-07	2.34E-09	3.14E-08	5.61E-09	5.61E-09	3.09E-09	4.80E-08	1.27E-09	1.70E-08	2.50E-09	2.50E-09	1.24E-09	2.45E-08
140	258530.42	4085451.15	1.59E-08	2.13E-07	3.71E-08	3.71E-08	2.07E-08	3.23E-07	2.42E-09	3.24E-08	5.80E-09	5.80E-09	3.19E-09	4.96E-08	1.31E-09	1.75E-08	2.58E-09	2.58E-09	1.28E-09	2.53E-08
141	258509.24	4085460.95	1.64E-08	2.19E-07	3.82E-08	3.82E-08	2.13E-08	3.33E-07	2.49E-09	3.33E-08	5.97E-09	5.97E-09	3.28E-09	5.11E-08	1.35E-09	1.80E-08	2.66E-09	2.66E-09	1.31E-09	2.60E-08
142	258488.06	4085470.74	1.68E-08	2.25E-07	3.93E-08	3.93E-08	2.19E-08	3.42E-07	2.55E-09	3.42E-08	6.13E-09	6.13E-09	3.37E-09	5.24E-08	1.39E-09	1.85E-08	2.73E-09	2.73E-09	1.35E-09	2.67E-08
143	258466.88	4085480.54	1.73E-08	2.30E-07	4.03E-08	4.03E-08	2.24E-08	3.51E-07	2.62E-09	3.51E-08	6.29E-09	6.29E-09	3.46E-09	5.38E-08	1.42E-09	1.90E-08	2.80E-09	2.80E-09	1.38E-09	2.74E-08
144	258445.7	4085490.33	1.77E-08	2.36E-07	4.13E-08	4.13E-08	2.30E-08	3.60E-07	2.69E-09	3.60E-08	6.45E-09	6.45E-09	3.54E-09	5.51E-08	1.46E-09	1.95E-08	2.87E-09	2.87E-09	1.42E-09	2.81E-08
145	258424.52	4085500.13	1.82E-08	2.43E-07	4.24E-08	4.24E-08	2.36E-08	3.69E-07	2.76E-09	3.70E-08	6.62E-09	6.62E-09	3.64E-09	5.66E-08	1.50E-09	2.00E-08	2.94E-09	2.94E-09	1.46E-09	2.88E-08
146	258403.34	4085509.92	1.87E-08	2.49E-07	4.35E-08	4.35E-08	2.43E-08	3.79E-07	2.83E-09	3.80E-08	6.80E-09	6.80E-09	3.74E-09	5.82E-08	1.54E-09	2.06E-08	3.03E-09	3.03E-09	1.50E-09	2.96E-08
147	258764.29	4085108.44	2.14E-08	2.86E-07	5.00E-08	5.00E-08	2.79E-08	4.36E-07	3.25E-09	4.36E-08	7.81E-09	7.81E-09	4.29E-09	6.68E-08	1.77E-09	2.36E-08	3.47E-09	3.47E-09	1.72E-09	3.40E-08
148	258763.57	4085083.68	2.30E-08	3.07E-07	5.36E-08	5.36E-08	2.99E-08	4.67E-07	3.48E-09	4.67E-08	8.36E-09	8.36E-09	4.60E-09	7.15E-08	1.89E-09	2.53E-08	3.72E-09	3.72E-09	1.84E-09	3.65E-08
149	258762.84	4085058.93	2.46E-08	3.29E-07	5.75E-08	5.75E-08	3.21E-08	5.01E-07	3.74E-09	5.01E-08	8.98E-09	8.98E-09	4.93E-09	7.68E-08	2.03E-09	2.71E-08	3.99E-09	3.99E-09	1.98E-09	3.91E-08
150	258762.12	4085034.17	2.65E-08	3.54E-07	6.18E-08	6.18E-08	3.44E-08	5.38E-07	4.02E-09	5.39E-08	9.65E-09	9.65E-09	5.30E-09	8.25E-08	2.18E-09	2.92E-08	4.29E-09	4.29E-09	2.12E-09	4.21E-08
151	258761.4	4085009.42	2.85E-08	3.80E-07	6.64E-08	6.64E-08	3.70E-08	5.79E-07	4.32E-09	5.79E-08	1.04E-08	1.04E-08	5.70E-09	8.87E-08	2.35E-09	3.14E-08	4.61E-09	4.61E-09	2.28E-09	4.52E-08
152	258760.68	4084984.66	3.06E-08	4.09E-07	7.14E-08	7.14E-08	3.98E-08	6.22E-07	4.65E-09	6.23E-08	1.12E-08	1.12E-08	6.13E-09	9.54E-08	2.52E-09	3.37E-08	4.96E-09	4.96E-09	2.46E-09	4.86E-08
153	258759.95	4084959.9	3.29E-08	4.40E-07	7.68E-08	7.68E-08	4.28E-08	6.69E-07	4.99E-09	6.70E-08	1.20E-08	1.20E-08	6.59E-09	1.03E-07	2.71E-09	3.62E-08	5.33E-09	5.33E-09	2.64E-09	5.23E-08
154	258759.23	4084935.15	3.53E-08	4.71E-07	8.23E-08	8.23E-08	4.59E-08	7.17E-07	5.36E-09	7.18E-08	1.29E-08	1.29E-08	7.07E-09	1.10E-07	2.91E-09	3.89E-08	5.72E-09	5.72E-09	2.83E-09	5.60E-08
155	258758.51	4084910.39	3.77E-08	5.03E-07	8.79E-08	8.79E-08	4.90E-08	7.66E-07	5.72E-09	7.67E-08	1.37E-08	1.37E-08	7.55E-09	1.17E-07	3.11E-09	4.15E-08	6.11E-09	6.11E-09	3.02E-09	5.98E-08
156	258855.9	4085127.71	1.56E-08	2.09E-07	3.65E-08	3.65E-08	2.03E-08	3.18E-07	2.37E-09	3.18E-08	5.69E-09	5.69E-09	3.13E-09	4.87E-08	1.29E-09	1.72E-08	2.53E-09	2.53E-09	1.25E-09	2.48E-08
157	258847.56	4085149.89	1.52E-08	2.03E-07	3.55E-08	3.55E-08	1.98E-08	3.09E-07	2.31E-09	3.10E-08	5.55E-09	5.55E-09	3.05E-09	4.74E-08	1.25E-09	1.68E-08	2.47E-09	2.47E-09	1.22E-09	2.42E-08
158	258839.22	4085172.07	1.48E-08	1.98E-07	3.45E-08	3.45E-08	1.92E-08	3.01E-07	2.25E-09	3.01E-08	5.39E-09	5.39E-09	2.96E-09	4.61E-08	1.22E-09	1.63E-08	2.40E-09	2.40E-09	1.19E-09	2.35E-08
159	258830.87	4085194.25	1.44E-08	1.92E-07	3.35E-08	3.35E-08	1.87E-08	2.92E-07	2.18E-09	2.92E-08	5.23E-09	5.23E-09	2.87E-09	4.47E-08	1.18E-09	1.58E-08	2.33E-09	2.33E-09	1.15E-09	2.28E-08
160	258822.53	4085216.44	1.39E-08	1.86E-07	3.24E-08	3.24E-08	1.81E-08	2.83E-07	2.11E-09	2.83E-08	5.07E-09	5.07E-09	2.78E-09	4.33E-08	1.15E-09	1.53E-08	2.25E-09	2.25E-09	1.12E-09	2.21E-08
161	258814.19	4085238.62	1.35E-08	1.80E-07	3.14E-08	3.14E-08	1.75E-08	2.74E-07	2.04E-09	2.74E-08	4.90E-09	4.90E-09	2.70E-09	4.19E-08	1.11E-09	1.48E-08	2.18E-09	2.18E-09	1.08E-09	2.14E-08
162	258805.84	4085260.8	1.30E-08	1.74E-07	3.04E-08	3.04E-08	1.69E-08	2.65E-07	1.98E-09	2.65E-08	4.75E-09	4.75E-09	2.61E-09	4.06E-08	1.07E-09	1.43E-08	2.11E-09	2.11E-09	1.05E-09	2.07E-08
163	258797.5	4085282.98	1.26E-08	1.68E-07	2.94E-08	2.94E-08	1.64E-08	2.56E-07	1.91E-09	2.57E-08	4.59E-09	4.59E-09	2.53E-09	3.93E-08	1.04E-09	1.39E-08	2.04E-09	2.04E-09	1.01E-09	2.00E-08
164	258789.16	4085305.17	1.22E-08	1.63E-07	2.84E-08	2.84E-08	1.58E-08	2.48E-07	1.85E-09	2.48E-08	4.44E-09	4.44E-09	2.44E-09	3.80E-08	1.00E-09	1.34E-08	1.97E-09	1.97E-09	9.77E-10	1.93E-08
165	258780.81	4085327.35	1.17E-08	1.57E-07	2.73E-08	2.73E-08	1.52E-08	2.38E-07	1.78E-09	2.38E-08	4.27E-09	4.27E-09	2.35E-09	3.65E-08	9.66E-10	1.29E-08	1.90E-09	1.90E-09	9.40E-10	1.86E-08
166	258772.47	4085349.53	1.13E-08	1.51E-07	2.64E-08	2.64E-08	1.47E-08	2.30E-07	1.72E-09	2.31E-08	4.13E-09	4.13E-09	2.27E-09	3.53E-08	9.34E-10	1.25E-08	1.84E-09	1.84E-09	9.09E-10	1.80E-08
167	258764.13	4085371.72	1.10E-08	1.46E-07	2.56E-08	2.56E-08	1.43E-08	2.23E-07	1.66E-09	2.23E-08	3.99E-09	3.99E-09	2.20E-09	3.42E-08	9.04E-10	1.21E-08	1.78E-09	1.78E-09	8.79E-10	1.74E-08
168	258755.78	4085393.9	1.06E-08	1.42E-07	2.48E-08	2.48E-08	1.38E-08	2.16E-07	1.61E-09	2.16E-08	3.87E-09	3.87E-09	2.13E-09	3.31E-08	8.75E-10	1.17E-08	1.72E-09	1.72E-09	8.52E-10	1.69E-08
169	258747.44	4085416.08	1.03E-08	1.37E-07	2.40E-08	2.40E-08	1.34E-08	2.09E-07	1.56E-09	2.09E-08	3.75E-09	3.75E-09	2.06E-09	3.21E-08	8.48E-10	1.13E-08	1.67E-09	1.67E-09	8.25E-10	1.63E-08
170	258739.1	4085438.26	9.99E-09	1.33E-07	2.33E-08	2.33E-08	1.30E-08	2.03E-07	1.52E-09	2.03E-08	3.64E-09	3.64E-09	2.00E-09	3.11E-08	8.23E-10	1.10E-08	1.62E-09	1.62E-09	8.01E-10	1.59E-08
171	258709.24	4085470.39	9.92E-09	1.32E-07	2.31E-08	2.31E-08	1.29E-08	2.02E-07	1.51E-09	2.02E-08	3.61E-09	3.61E-09	1.99E-09	3.09E-08	8.18E-10	1.09E-08	1.61E-09	1.61E-09	7.96E-10	1.57E-08
172	258687.73	4085480.34	1.01E-08	1.36E-07	2.37E-08	2.37E-08	1.32E-08	2.06E-07	1.54E-09	2.06E-08	3.70E-09	3.70E-09	2.03E-09	3.16E-08	8.36E-10	1.12E-08	1.64E-09	1.64E-09	8.14E-10	1.61E-08
173	258666.22	4085490.29	1.04E-08	1.39E-07	2.43E-08	2.43E-08	1.35E-08	2.11E-07	1.58E-09	2.12E-08	3.79E-09	3.79E-09	2.08E-09	3.24E-08	8.57E-10	1.14E-08	1.69E-09	1.69E-09	8.34E-10	1.65E-08
174	258644.71	4085500.24	1.07E-08	1.43E-07	2.49E-08	2.49E-08	1.39E-08	2.17E-07	1.62E-09	2.17E-08	3.89E-09	3.89E-09	2.14E-09	3.33E-08	8.80E-10	1.18E-08	1.73E-09	1.73E-09	8.57E-10	1.70E-08
175	258623.2	4085510.19	1.10E-08	1.47E-07	2.56E-08	2.56E-08	1.43E-08	2.23E-07	1.67E-09	2.24E-08	4.00E-09	4.00E-09	2.20E-09	3.42E-08	9.06E-10	1.21E-08	1.78E-09	1.78E-09	8.81E-10	1.74E-08
176	258601.69	4085520.14	1.13E-08	1.51E-07	2.64E-08	2.64E-08	1.47E-08	2.30E-07	1.72E-09	2.31E-08	4.13E-09	4.13E-09	2.27E-09	3.53E-08	9.34E-10	1.25E-08	1.84E-09	1.84E-09	9.09E-10	1.80E-08
177	258580.18	4085530.08	1.17E-08	1.56E-07	2.73E-08	2.73E-08	1.52E-08	2.37E-07	1.77E-09	2.38E-08	4.26E-09	4.26E-09	2.34E-09	3.64E-08	9.63E-10	1.29E-08	1.89E-09	1.89E-09	9.37E-10	1.85E-08
178	258558.67	4085540.03	1.20E-08	1.61E-07	2.81E-08	2.81E-08	1.57E-08	2.45E-07	1.83E-09	2.45E-08	4.38E-09	4.38E-09	2.41E-09	3.75E-08	9.92E-10	1.33E-08	1.95E-09	1.95E-09	9.66E-10	1.91E-08
179	258537.16	4085549.98	1.24E-08	1.65E-07	2.88E-08	2.88E-08	1.61E-08	2.51E-07	1.88E-09	2.52E-08	4.50E-09	4.50E-09	2.48E-09	3.85E-08	1.02E-09	1.36E-08	2.00E-09	2.00E-09	9.92E-10	1.96E-08
180	258515.65	4085559.93	1.26E-08	1.69E-07	2.95E-08	2.95E-08	1.64E-08	2.57E-07	1.92E-09	2.57E-08	4.60E-09	4.60E-09	2.53E-09	3.94E-08	1.04E-09	1.39E-08	2.05E-09	2.05E-09	1.01E-09	2.01E-08
181	258494.14	4085569.88	1.29E-08	1.72E-07	3.01E-08	3.01E-08	1.68E-08	2.62E-07	1.96E-09	2.63E-08	4.70E-09	4.70E-09	2.58E-09	4.02E-08	1.06E-09	1.42E-08	2.09E-09	2.09E-09	1.03E-09	2.05E-08
182	258472.63	4085579.83	1.32E-08	1.76E-07	3.07E-08	3.07E-08	1.71E-08	2.68E-07	2.00E-09	2.68E-08	4.80E-09	4.80E-09	2.64E-09	4.10E-08	1.09E-09	1.45E-08	2.14E-09	2.14E-09	1.06E-09	2.09E-08
183	258451.12	4085589.78	1.35E-08	1.80E-07	3.14E-08	3.14E-08	1.75E-08	2.74E-07	2.05E-09	2.74E-08	4.91E-09	4.91E-09	2.70E-09	4.20E-08	1.11E-09	1.48E-08	2.18E-09	2.18E-09	1.08E-09	2.14E-08
184	258429.6	4085599.72	1.38E-08	1.84E-07	3.22E-08	3.22E-08	1.79E-08	2.80E-07	2.09E-09	2.81E-08	5.03E-09	5.03E-09	2.76E-09	4.30E-08	1.14E-09	1.52E-08	2.24E-09	2.24E-09	1.11E-09	2.19E-08
185	258408.09	4085609.67	1.41E-08	1.89E-07	3.30E-08	3.30E-08	1.84E-08	2.87E-07	2.15E-09	2.88E-08	5.15E-09	5.15E-09	2.83E-09	4.40E-08	1.17E-09	1.56E-08	2.29E-09	2.29E-09	1.13E-09	2.24E-08
186	258864.25	4085105.52	1.60E-08	2.14E-07	3.74E-08	3.74E-08	2.08E-08	3.26E-07	2.43E-09	3.26E-08	5.84E-09	5.84E-09	3.21E-09	4.99E-08	1.32E-09	1.76E-08	2.60E-09	2.60E-09	1.29E-09	2.54E-08
187	258863.52	4085080.77	1.69E-08	2.26E-07	3.95E-08	3.95E-08	2.20E-08	3.44E-07	2.57E-09	3.44E-08	6.17E-09	6.17E-09	3.39E-09	5.27E-08	1.40E-09	1.86E-08	2.74E-09	2.74E-09	1.36E-09	2.69E-08
188	258862.8	4085056.01	1.79E-08	2.39E-07	4.18E-08	4.18E-08	2.33E-08	3.64E-07	2.72E-09	3.64E-08	6.52E-09	6.52E-09	3.59E-09	5.58E-08	1.48E-09	1.97E-08	2.90E-09	2.90E-09	1.44E-09	2.84E-08
189	258862.08	4085031.26	1.90E-08	2.54E-07	4.43E-08	4.43E-08	2.47E-08	3.86E-07	2.88E-09	3.86E-08	6.92E-09	6.92E-09	3.80E-09	5.91E-08	1.56E-09	2.09E-08	3.08E-09	3.08E-09	1.52E-09	3.01E-08
190	258861.36	4085006.5	2.01E-08	2.69E-07	4.70E-08	4.70E-08	2.62E-08	4.09E-07	3.06E-09	4.10E-08	7.34E-09	7.34E-09	4.03E-09	6.28E-08	1.66E-09	2.22E-08	3.26E-09	3.26E-09	1.62E-09	3.20E-08
191	258860.63	4084981.74	2.14E-08	2.86E-07	4.99E-08	4.99E-08	2.78E-08	4.35E-07	3.25E-09	4.35E-08	7.79E-09	7.79E-09	4.29E-09	6.67E-08	1.76E-09	2.36E-08	3.47E-09	3.47E-09	1.72E-09	3.40E-08
192	258859.91	4084956.99	2.27E-08	3.04E-07	5.31E-08	5.31E-08	2.96E-08	4.62E-07	3.45E-09	4.63E-08	8.29E-09	8.29E-09	4.56E-09	7.09E-08	1.88E-09	2.50E-08	3.69E-09	3.69E-09	1.83E-09	3.61E-08
193	258859.19	4084932.23	2.42E-08	3.23E-07	5.64E-08	5.64E-08	3.15E-08	4.92E-07	3.67E-09	4.92E-08	8.81E-09	8.81E-09	4.84E-09	7.54E-08	1.99E-09	2.66E-08	3.92E-09	3.92E-09	1.94E-09	3.84E-08
194	258858.47	4084907.47	2.57E-08	3.43E-07	5.99E-08	5.99E-08	3.34E-08	5.22E-07	3.90E-09	5.23E-08	9.35E-09	9.35E-09	5.14E-09	8.00E-08	2.12E-09	2.83E-08	4.16E-09	4.16E-09	2.06E-09	4.08E-08
195	258955.77	4085125.02	1.23E-08	1.65E-07	2.87E-08	2.87E-08	1.60E-08	2.50E-07	1.87E-09	2.51E-08	4.49E-09	4.49E-09	2.47E-09	3.84E-08	1.02E-09	1.36E-08	2.00E-09	2.00E-09	9.88E-10	1.96E-08
196	258947.34	4085147.44	1.21E-08	1.61E-07	2.81E-08	2.81E-08	1.57E-08	2.45E-07	1.83E-09	2.45E-08	4.39E-09	4.39E-09	2.41E-09	3.76E-08	9.94E-10	1.33E-08	1.95E-09	1.95E-09	9.67E-10	1.91E-08
197	258938.91	4085169.86	1.18E-08	1.57E-07	2.75E-08	2.75E-08	1.53E-08	2.39E-07	1.79E-09	2.40E-08	4.29E-09	4.29E-09	2.36E-09	3.67E-08	9.71E-10	1.30E-08	1.91E-09	1.91E-09	9.45E-10	1.87E-08
198	258930.48	4085192.27	1.15E-08	1.53E-07	2.68E-08	2.68E-08	1.49E-08	2.33E-07	1.74E-09	2.34E-08	4.18E-09	4.18E-09	2.30E-09	3.58E-08	9.46E-10	1.26E-08	1.86E-09	1.86E-09	9.21E-10	1.82E-08
199	258922.05	4085214.69	1.12E-08	1.49E-07	2.61E-08	2.61E-08	1.45E-08	2.27E-07	1.69E-09	2.27E-08	4.07E-09	4.07E-09	2.24E-09	3.48E-08	9.20E-10	1.23E-08	1.81E-09	1.81E-09	8.96E-10	1.77E-08
200	258913.62	4085237.1	1.09E-08	1.45E-07	2.53E-08	2.53E-08	1.41E-08	2.21E-07	1.65E-09	2.21E-08	3.95E-09	3.95E-09	2.17E-09	3.38E-08	8.95E-10	1.20E-08	1.76E-09	1.76E-09	8.71E-10	1.72E-08
201	258905.19	4085259.52	1.05E-08	1.41E-07	2.46E-08	2.46E-08	1.37E-08	2.14E-07	1.60E-09	2.15E-08	3.84E-09	3.84E-09	2.11E-09	3.29E-08	8.69E-10	1.16E-08	1.71E-09	1.71E-09	8.46E-10	1.67E-08
202	258896.76	4085281.94	1.02E-08	1.37E-07	2.39E-08	2.39E-08	1.33E-08	2.08E-07	1.55E-09	2.08E-08	3.73E-09	3.73E-09	2.05E-09	3.19E-08	8.43E-10	1.13E-08	1.66E-09	1.66E-09	8.20E-10	1.62E-08
203	258888.32	4085304.35	9.91E-09	1.32E-07	2.31E-08	2.31E-08	1.29E-08	2.01E-07	1.50E-09	2.02E-08	3.61E-09	3.61E-09	1.98E-09	3.09E-08	8.17E-10	1.09E-08	1.61E-09	1.61E-09	7.95E-10	1.57E-08
204	258879.89	4085326.77	9.64E-09	1.29E-07	2.25E-08	2.25E-08	1.25E-08	1.96E-07	1.46E-09	1.96E-08	3.51E-09	3.51E-09	1.93E-09	3.00E-08	7.95E-10	1.06E-08	1.56E-09	1.56E-09	7.73E-10	1.53E-08
205	258871.46	4085349.18	9.38E-09	1.25E-07	2.19E-08	2.19E-08	1.22E-08	1.91E-07	1.42E-09	1.91E-08	3.42E-09	3.42E-09	1.88E-09	2.92E-08	7.73E-10	1.03E-08	1.52E-09	1.52E-09	7.52E-10	1.49E-08
206	258863.03	4085371.6	9.12E-09	1.22E-07	2.13E-08	2.13E-08	1.19E-08	1.85E-07	1.38E-09	1.86E-08	3.32E-09	3.32E-09	1.83E-09	2.84E-08	7.52E-10	1.00E-08	1.48E-09	1.48E-09	7.32E-10	1.45E-08
207	258854.6	4085394.02	8.87E-09	1.18E-07	2.07E-08	2.07E-08	1.15E-08	1.80E-07	1.35E-09	1.80E-08	3.23E-09	3.23E-09	1.78E-09	2.76E-08	7.31E-10	9.76E-09	1.44E-09	1.44E-09	7.11E-10	1.41E-08
208	258846.17	4085416.43	8.62E-09	1.15E-07	2.01E-08	2.01E-08	1.12E-08	1.75E-07	1.31E-09	1.75E-08	3.14E-09	3.14E-09	1.73E-09	2.69E-08	7.11E-10	9.49E-09	1.40E-09	1.40E-09	6.92E-10	1.37E-08
209	258837.74	4085438.85	8.38E-09	1.12E-07	1.96E-08	1.96E-08	1.09E-08	1.70E-07	1.27E-09	1.71E-08	3.05E-09	3.05E-09	1.68E-09	2.61E-08	6.91E-10	9.23E-09	1.36E-09	1.36E-09	6.72E-10	1.33E-08
210	258829.31	4085461.26	8.16E-09	1.09E-07	1.90E-08	1.90E-08	1.06E-08	1.66E-07	1.24E-09	1.66E-08	2.97E-09	2.97E-09	1.63E-09	2.54E-08	6.72E-10	8.98E-09	1.32E-09	1.32E-09	6.54E-10	1.30E-08
211	258820.88	4085483.68	7.94E-09	1.06E-07	1.85E-08	1.85E-08	1.03E-08	1.61E-07	1.21E-09	1.62E-08	2.89E-09	2.89E-09	1.59E-09	2.48E-08	6.55E-10	8.75E-09	1.29E-09	1.29E-09	6.37E-10	1.26E-08
212	258812.44	4085506.1	7.75E-09	1.03E-07	1.81E-08	1.81E-08	1.01E-08	1.57E-07	1.18E-09	1.58E-08	2.82E-09	2.82E-09	1.55E-09	2.41E-08	6.39E-10	8.53E-09	1.26E-09	1.26E-09	6.22E-10	1.23E-08
213	258782.28	4085538.57	7.70E-09	1.03E-07	1.80E-08	1.80E-08	1.00E-08	1.57E-07	1.17E-09	1.57E-08	2.81E-09	2.81E-09	1.54E-09	2.40E-08	6.35E-10	8.48E-09	1.25E-09	1.25E-09	6.18E-10	1.22E-08
214	258760.54	4085548.62	7.85E-09	1.05E-07	1.83E-08	1.83E-08	1.02E-08	1.60E-07	1.19E-09	1.60E-08	2.86E-09	2.86E-09	1.57E-09	2.45E-08	6.47E-10	8.65E-09	1.27E-09	1.27E-09	6.30E-10	1.25E-08
215	258738.8	4085558.67	8.01E-09	1.07E-07	1.87E-08	1.87E-08	1.04E-08	1.63E-07	1.22E-09	1.63E-08	2.92E-09	2.92E-09	1.60E-09	2.50E-08	6.60E-10	8.82E-09	1.30E-09	1.30E-09	6.43E-10	1.27E-08
216	258717.06	4085568.73	8.18E-09	1.09E-07	1.91E-08	1.91E-08	1.06E-08	1.66E-07	1.24E-09	1.67E-08	2.98E-09	2.98E-09	1.64E-09	2.55E-08	6.75E-10	9.01E-09	1.33E-09	1.33E-09	6.56E-10	1.30E-08
217	258695.33	4085578.78	8.38E-09	1.12E-07	1.95E-08	1.95E-08	1.09E-08	1.70E-07	1.27E-09	1.70E-08	3.05E-09	3.05E-09	1.68E-09	2.61E-08	6.90E-10	9.22E-09	1.36E-09	1.36E-09	6.72E-10	1.33E-08
218	258673.59	4085588.83	8.59E-09	1.15E-07	2.00E-08	2.00E-08	1.12E-08	1.75E-07	1.30E-09	1.75E-08	3.13E-09	3.13E-09	1.72E-09	2.68E-08	7.08E-10	9.46E-09	1.39E-09	1.39E-09	6.89E-10	1.36E-08
219	258651.85	4085598.88	8.83E-09	1.18E-07	2.06E-08	2.06E-08	1.15E-08	1.79E-07	1.34E-09	1.80E-08	3.22E-09	3.22E-09	1.77E-09	2.75E-08	7.28E-10	9.72E-09	1.43E-09	1.43E-09	7.08E-10	1.40E-08
220	258630.12	4085608.94	9.07E-09	1.21E-07	2.12E-08	2.12E-08	1.18E-08	1.84E-07	1.38E-09	1.85E-08	3.30E-09	3.30E-09	1.82E-09	2.83E-08	7.48E-10	9.99E-09	1.47E-09	1.47E-09	7.28E-10	1.44E-08
221	258608.38	4085618.99	9.31E-09	1.24E-07	2.17E-08	2.17E-08	1.21E-08	1.89E-07	1.41E-09	1.89E-08	3.39E-09	3.39E-09	1.86E-09	2.90E-08	7.67E-10	1.03E-08	1.51E-09	1.51E-09	7.47E-10	1.48E-08
222	258586.64	4085629.04	9.53E-09	1.27E-07	2.22E-08	2.22E-08	1.24E-08	1.94E-07	1.45E-09	1.94E-08	3.47E-09	3.47E-09	1.91E-09	2.97E-08	7.85E-10	1.05E-08	1.54E-09	1.54E-09	7.64E-10	1.51E-08
223	258564.91	4085639.1	9.75E-09	1.30E-07	2.27E-08	2.27E-08	1.27E-08	1.98E-07	1.48E-09	1.98E-08	3.55E-09	3.55E-09	1.95E-09	3.04E-08	8.03E-10	1.07E-08	1.58E-09	1.58E-09	7.82E-10	1.55E-08
224	258543.17	4085649.15	9.93E-09	1.33E-07	2.32E-08	2.32E-08	1.29E-08	2.02E-07	1.51E-09	2.02E-08	3.62E-09	3.62E-09	1.99E-09	3.09E-08	8.19E-10	1.09E-08	1.61E-09	1.61E-09	7.97E-10	1.58E-08
225	258521.43	4085659.2	1.01E-08	1.35E-07	2.35E-08	2.35E-08	1.31E-08	2.05E-07	1.53E-09	2.05E-08	3.67E-09	3.67E-09	2.02E-09	3.14E-08	8.31E-10	1.11E-08	1.63E-09	1.63E-09	8.09E-10	1.60E-08
226	258499.69	4085669.26	1.03E-08	1.38E-07	2.40E-08	2.40E-08	1.34E-08	2.09E-07	1.56E-09	2.10E-08	3.75E-09	3.75E-09	2.06E-09	3.21E-08	8.49E-10	1.13E-08	1.67E-09	1.67E-09	8.27E-10	1.64E-08
227	258477.96	4085679.31	1.05E-08	1.40E-07	2.45E-08	2.45E-08	1.37E-08	2.13E-07	1.59E-09	2.14E-08	3.83E-09	3.83E-09	2.10E-09	3.27E-08	8.66E-10	1.16E-08	1.70E-09	1.70E-09	8.43E-10	1.67E-08
228	258456.22	4085689.36	1.07E-08	1.43E-07	2.50E-08	2.50E-08	1.39E-08	2.17E-07	1.62E-09	2.18E-08	3.90E-09	3.90E-09	2.14E-09	3.33E-08	8.82E-10	1.18E-08	1.73E-09	1.73E-09	8.59E-10	1.70E-08
229	258434.48	4085699.42	1.09E-08	1.46E-07	2.55E-08	2.55E-08	1.42E-08	2.22E-07	1.66E-09	2.23E-08	3.99E-09	3.99E-09	2.19E-09	3.41E-08	9.02E-10	1.20E-08	1.77E-09	1.77E-09	8.78E-10	1.74E-08
230	258412.75	4085709.47	1.12E-08	1.50E-07	2.61E-08	2.61E-08	1.46E-08	2.28E-07	1.70E-09	2.28E-08	4.08E-09	4.08E-09	2.24E-09	3.49E-08	9.23E-10	1.23E-08	1.81E-09	1.81E-09	8.98E-10	1.78E-08
231	258964.2	4085102.61	1.26E-08	1.68E-07	2.93E-08	2.93E-08	1.63E-08	2.55E-07	1.91E-09	2.56E-08	4.57E-09	4.57E-09	2.51E-09	3.91E-08	1.04E-09	1.38E-08	2.04E-09	2.04E-09	1.01E-09	1.99E-08
232	258963.48	4085077.85	1.31E-08	1.75E-07	3.06E-08	3.06E-08	1.71E-08	2.67E-07	1.99E-09	2.67E-08	4.78E-09	4.78E-09	2.63E-09	4.09E-08	1.08E-09	1.45E-08	2.13E-09	2.13E-09	1.05E-09	2.09E-08
233	258962.76	4085053.09	1.38E-08	1.84E-07	3.21E-08	3.21E-08	1.79E-08	2.80E-07	2.09E-09	2.80E-08	5.01E-09	5.01E-09	2.75E-09	4.28E-08	1.13E-09	1.51E-08	2.23E-09	2.23E-09	1.10E-09	2.18E-08
234	258962.04	4085028.34	1.44E-08	1.93E-07	3.37E-08	3.37E-08	1.88E-08	2.93E-07	2.19E-09	2.94E-08	5.26E-09	5.26E-09	2.89E-09	4.50E-08	1.19E-09	1.59E-08	2.34E-09	2.34E-09	1.16E-09	2.29E-08
235	258961.31	4085003.58	1.52E-08	2.03E-07	3.54E-08	3.54E-08	1.97E-08	3.08E-07	2.30E-09	3.09E-08	5.53E-09	5.53E-09	3.04E-09	4.73E-08	1.25E-09	1.67E-08	2.46E-09	2.46E-09	1.22E-09	2.41E-08
236	258960.59	4084978.83	1.60E-08	2.13E-07	3.73E-08	3.73E-08	2.08E-08	3.25E-07	2.43E-09	3.25E-08	5.82E-09	5.82E-09	3.20E-09	4.98E-08	1.32E-09	1.76E-08	2.59E-09	2.59E-09	1.28E-09	2.54E-08
237	258959.87	4084954.07	1.68E-08	2.25E-07	3.93E-08	3.93E-08	2.19E-08	3.42E-07	2.56E-09	3.43E-08	6.14E-09	6.14E-09	3.37E-09	5.25E-08	1.39E-09	1.86E-08	2.73E-09	2.73E-09	1.35E-09	2.68E-08
238	258959.15	4084929.31	1.78E-08	2.37E-07	4.15E-08	4.15E-08	2.31E-08	3.61E-07	2.70E-09	3.62E-08	6.48E-09	6.48E-09	3.56E-09	5.54E-08	1.47E-09	1.96E-08	2.88E-09	2.88E-09	1.43E-09	2.82E-08
239	258958.42	4084904.56	1.88E-08	2.51E-07	4.38E-08	4.38E-08	2.44E-08	3.81E-07	2.85E-09	3.82E-08	6.83E-09	6.83E-09	3.76E-09	5.84E-08	1.55E-09	2.06E-08	3.04E-09	3.04E-09	1.50E-09	2.98E-08
240	259055.67	4085122.28	1.00E-08	1.34E-07	2.34E-08	2.34E-08	1.31E-08	2.04E-07	1.52E-09	2.04E-08	3.66E-09	3.66E-09	2.01E-09	3.13E-08	8.28E-10	1.11E-08	1.63E-09	1.63E-09	8.06E-10	1.59E-08
241	259047.17	4085144.86	9.87E-09	1.32E-07	2.30E-08	2.30E-08	1.28E-08	2.01E-07	1.50E-09	2.01E-08	3.60E-09	3.60E-09	1.98E-09	3.08E-08	8.14E-10	1.09E-08	1.60E-09	1.60E-09	7.92E-10	1.57E-08
242	259038.68	4085167.45	9.69E-09	1.29E-07	2.26E-08	2.26E-08	1.26E-08	1.97E-07	1.47E-09	1.97E-08	3.53E-09	3.53E-09	1.94E-09	3.02E-08	7.98E-10	1.07E-08	1.57E-09	1.57E-09	7.77E-10	1.54E-08

243	259030.18	4085190.03	9.46E-09	1.26E-07	2.21E-08	2.21E-08	1.23E-08	1.92E-07	1.44E-09	1.92E-08	3.45E-09	3.45E-09	1.89E-09	2.95E-08	7.80E-10	1.04E-08	1.53E-09	1.53E-09	7.59E-10	1.50E-08
244	259021.69	4085212.62	9.21E-09	1.23E-07	2.15E-08	2.15E-08	1.20E-08	1.87E-07	1.40E-09	1.87E-08	3.35E-09	3.35E-09	1.84E-09	2.87E-08	7.59E-10	1.01E-08	1.49E-09	1.49E-09	7.39E-10	1.46E-08
245	259013.19	4085235.21	8.97E-09	1.20E-07	2.09E-08	2.09E-08	1.17E-08	1.82E-07	1.36E-09	1.83E-08	3.27E-09	3.27E-09	1.80E-09	2.79E-08	7.39E-10	9.88E-09	1.45E-09	1.45E-09	7.19E-10	1.42E-08
246	259004.7	4085257.79	8.73E-09	1.17E-07	2.04E-08	2.04E-08	1.14E-08	1.78E-07	1.33E-09	1.78E-08	3.18E-09	3.18E-09	1.75E-09	2.72E-08	7.20E-10	9.62E-09	1.42E-09	1.42E-09	7.01E-10	1.39E-08
247	258996.2	4085280.38	8.51E-09	1.14E-07	1.99E-08	1.99E-08	1.11E-08	1.73E-07	1.29E-09	1.73E-08	3.10E-09	3.10E-09	1.70E-09	2.65E-08	7.01E-10	9.37E-09	1.38E-09	1.38E-09	6.83E-10	1.35E-08
248	258987.71	4085302.96	8.30E-09	1.11E-07	1.94E-08	1.94E-08	1.08E-08	1.69E-07	1.26E-09	1.69E-08	3.02E-09	3.02E-09	1.66E-09	2.59E-08	6.84E-10	9.14E-09	1.34E-09	1.34E-09	6.66E-10	1.32E-08
249	258979.21	4085325.55	8.10E-09	1.08E-07	1.89E-08	1.89E-08	1.05E-08	1.65E-07	1.23E-09	1.65E-08	2.95E-09	2.95E-09	1.62E-09	2.52E-08	6.67E-10	8.92E-09	1.31E-09	1.31E-09	6.50E-10	1.29E-08
250	258970.72	4085348.13	7.91E-09	1.06E-07	1.85E-08	1.85E-08	1.03E-08	1.61E-07	1.20E-09	1.61E-08	2.88E-09	2.88E-09	1.58E-09	2.46E-08	6.52E-10	8.71E-09	1.28E-09	1.28E-09	6.35E-10	1.26E-08
251	258962.22	4085370.72	7.73E-09	1.03E-07	1.80E-08	1.80E-08	1.01E-08	1.57E-07	1.17E-09	1.57E-08	2.82E-09	2.82E-09	1.55E-09	2.41E-08	6.37E-10	8.51E-09	1.25E-09	1.25E-09	6.20E-10	1.23E-08
252	258953.73	4085393.31	7.55E-09	1.01E-07	1.76E-08	1.76E-08	9.82E-09	1.53E-07	1.15E-09	1.54E-08	2.75E-09	2.75E-09	1.51E-09	2.35E-08	6.22E-10	8.31E-09	1.22E-09	1.22E-09	6.06E-10	1.20E-08
253	258945.23	4085415.89	7.38E-09	9.85E-08	1.72E-08	1.72E-08	9.59E-09	1.50E-07	1.12E-09	1.50E-08	2.69E-09	2.69E-09	1.48E-09	2.30E-08	6.08E-10	8.12E-09	1.20E-09	1.20E-09	5.92E-10	1.17E-08
254	258936.74	4085438.48	7.20E-09	9.62E-08	1.68E-08	1.68E-08	9.37E-09	1.46E-07	1.09E-09	1.47E-08	2.62E-09	2.62E-09	1.44E-09	2.24E-08	5.94E-10	7.93E-09	1.17E-09	1.17E-09	5.78E-10	1.14E-08
255	258928.24	4085461.06	7.03E-09	9.39E-08	1.64E-08	1.64E-08	9.14E-09	1.43E-07	1.07E-09	1.43E-08	2.56E-09	2.56E-09	1.41E-09	2.19E-08	5.79E-10	7.74E-09	1.14E-09	1.14E-09	5.64E-10	1.12E-08
256	258919.75	4085483.65	6.86E-09	9.16E-08	1.60E-08	1.60E-08	8.92E-09	1.39E-07	1.04E-09	1.40E-08	2.50E-09	2.50E-09	1.37E-09	2.14E-08	5.65E-10	7.55E-09	1.11E-09	1.11E-09	5.50E-10	1.09E-08
257	258911.25	4085506.24	6.69E-09	8.94E-08	1.56E-08	1.56E-08	8.71E-09	1.36E-07	1.02E-09	1.36E-08	2.44E-09	2.44E-09	1.34E-09	2.09E-08	5.52E-10	7.37E-09	1.08E-09	1.08E-09	5.37E-10	1.06E-08
258	258902.76	4085528.82	6.54E-09	8.74E-08	1.53E-08	1.53E-08	8.51E-09	1.33E-07	9.93E-10	1.33E-08	2.38E-09	2.38E-09	1.31E-09	2.04E-08	5.39E-10	7.20E-09	1.06E-09	1.06E-09	5.25E-10	1.04E-08
259	258894.26	4085551.41	6.39E-09	8.54E-08	1.49E-08	1.49E-08	8.31E-09	1.30E-07	9.70E-10	1.30E-08	2.33E-09	2.33E-09	1.28E-09	1.99E-08	5.27E-10	7.04E-09	1.04E-09	1.04E-09	5.13E-10	1.01E-08
260	258885.77	4085573.99	6.26E-09	8.36E-08	1.46E-08	1.46E-08	8.14E-09	1.27E-07	9.50E-10	1.27E-08	2.28E-09	2.28E-09	1.25E-09	1.95E-08	5.16E-10	6.89E-09	1.01E-09	1.01E-09	5.02E-10	9.94E-09
261	258855.37	4085606.71	6.23E-09	8.32E-08	1.45E-08	1.45E-08	8.10E-09	1.27E-07	9.45E-10	1.27E-08	2.27E-09	2.27E-09	1.25E-09	1.94E-08	5.13E-10	6.86E-09	1.01E-09	1.01E-09	4.99E-10	9.89E-09
262	258833.47	4085616.84	6.33E-09	8.45E-08	1.48E-08	1.48E-08	8.23E-09	1.29E-07	9.60E-10	1.29E-08	2.30E-09	2.30E-09	1.27E-09	1.97E-08	5.21E-10	6.97E-09	1.03E-09	1.03E-09	5.08E-10	1.00E-08
263	258811.57	4085626.97	6.44E-09	8.60E-08	1.50E-08	1.50E-08	8.37E-09	1.31E-07	9.77E-10	1.31E-08	2.34E-09	2.34E-09	1.29E-09	2.01E-08	5.30E-10	7.09E-09	1.04E-09	1.04E-09	5.16E-10	1.02E-08
264	258789.66	4085637.1	6.55E-09	8.75E-08	1.53E-08	1.53E-08	8.52E-09	1.33E-07	9.94E-10	1.33E-08	2.39E-09	2.39E-09	1.31E-09	2.04E-08	5.40E-10	7.21E-09	1.06E-09	1.06E-09	5.26E-10	1.04E-08
265	258767.76	4085647.23	6.68E-09	8.92E-08	1.56E-08	1.56E-08	8.68E-09	1.36E-07	1.01E-09	1.36E-08	2.43E-09	2.43E-09	1.34E-09	2.08E-08	5.50E-10	7.35E-09	1.08E-09	1.08E-09	5.36E-10	1.06E-08
266	258745.86	4085657.36	6.82E-09	9.11E-08	1.59E-08	1.59E-08	8.87E-09	1.39E-07	1.03E-09	1.39E-08	2.48E-09	2.48E-09	1.37E-09	2.12E-08	5.62E-10	7.51E-09	1.11E-09	1.11E-09	5.47E-10	1.08E-08
267	258723.96	4085667.49	6.98E-09	9.32E-08	1.63E-08	1.63E-08	9.08E-09	1.42E-07	1.06E-09	1.42E-08	2.54E-09	2.54E-09	1.40E-09	2.17E-08	5.75E-10	7.68E-09	1.13E-09	1.13E-09	5.60E-10	1.11E-08
268	258702.06	4085677.61	7.16E-09	9.56E-08	1.67E-08	1.67E-08	9.31E-09	1.45E-07	1.09E-09	1.46E-08	2.61E-09	2.61E-09	1.43E-09	2.23E-08	5.90E-10	7.88E-09	1.16E-09	1.16E-09	5.74E-10	1.14E-08
269	258680.16	4085687.74	7.34E-09	9.81E-08	1.71E-08	1.71E-08	9.55E-09	1.49E-07	1.11E-09	1.49E-08	2.67E-09	2.67E-09	1.47E-09	2.29E-08	6.05E-10	8.08E-09	1.19E-09	1.19E-09	5.89E-10	1.17E-08
270	258658.25	4085697.87	7.53E-09	1.01E-07	1.76E-08	1.76E-08	9.79E-09	1.53E-07	1.14E-09	1.53E-08	2.74E-09	2.74E-09	1.51E-09	2.35E-08	6.21E-10	8.29E-09	1.22E-09	1.22E-09	6.04E-10	1.20E-08
271	258636.35	4085708	7.71E-09	1.03E-07	1.80E-08	1.80E-08	1.00E-08	1.57E-07	1.17E-09	1.57E-08	2.81E-09	2.81E-09	1.54E-09	2.40E-08	6.35E-10	8.48E-09	1.25E-09	1.25E-09	6.18E-10	1.22E-08
272	258614.45	4085718.13	7.86E-09	1.05E-07	1.83E-08	1.83E-08	1.02E-08	1.60E-07	1.19E-09	1.60E-08	2.86E-09	2.86E-09	1.58E-09	2.45E-08	6.48E-10	8.66E-09	1.27E-09	1.27E-09	6.31E-10	1.25E-08
273	258592.55	4085728.26	8.01E-09	1.07E-07	1.87E-08	1.87E-08	1.04E-08	1.63E-07	1.22E-09	1.63E-08	2.92E-09	2.92E-09	1.60E-09	2.49E-08	6.60E-10	8.82E-09	1.30E-09	1.30E-09	6.42E-10	1.27E-08
274	258570.65	4085738.39	8.14E-09	1.09E-07	1.90E-08	1.90E-08	1.06E-08	1.65E-07	1.24E-09	1.66E-08	2.97E-09	2.97E-09	1.63E-09	2.54E-08	6.71E-10	8.96E-09	1.32E-09	1.32E-09	6.53E-10	1.29E-08
275	258548.75	4085748.52	8.27E-09	1.11E-07	1.93E-08	1.93E-08	1.08E-08	1.68E-07	1.26E-09	1.68E-08	3.01E-09	3.01E-09	1.66E-09	2.58E-08	6.82E-10	9.11E-09	1.34E-09	1.34E-09	6.64E-10	1.31E-08
276	258526.84	4085758.65	8.41E-09	1.12E-07	1.96E-08	1.96E-08	1.09E-08	1.71E-07	1.28E-09	1.71E-08	3.06E-09	3.06E-09	1.68E-09	2.62E-08	6.93E-10	9.26E-09	1.36E-09	1.36E-09	6.75E-10	1.34E-08
277	258504.94	4085768.78	8.56E-09	1.14E-07	2.00E-08	2.00E-08	1.11E-08	1.74E-07	1.30E-09	1.74E-08	3.12E-09	3.12E-09	1.72E-09	2.67E-08	7.06E-10	9.43E-09	1.39E-09	1.39E-09	6.87E-10	1.36E-08
278	258483.04	4085778.91	8.73E-09	1.17E-07	2.04E-08	2.04E-08	1.14E-08	1.77E-07	1.32E-09	1.78E-08	3.18E-09	3.18E-09	1.75E-09	2.72E-08	7.20E-10	9.61E-09	1.41E-09	1.41E-09	7.00E-10	1.39E-08
279	258461.14	4085789.04	8.91E-09	1.19E-07	2.08E-08	2.08E-08	1.16E-08	1.81E-07	1.35E-09	1.81E-08	3.25E-09	3.25E-09	1.78E-09	2.78E-08	7.34E-10	9.81E-09	1.44E-09	1.44E-09	7.15E-10	1.41E-08
280	258439.24	4085799.17	9.10E-09	1.22E-07	2.12E-08	2.12E-08	1.18E-08	1.85E-07	1.38E-09	1.85E-08	3.31E-09	3.31E-09	1.82E-09	2.84E-08	7.50E-10	1.00E-08	1.47E-09	1.47E-09	7.30E-10	1.44E-08
281	258417.33	4085809.3	9.29E-09	1.24E-07	2.17E-08	2.17E-08	1.21E-08	1.89E-07	1.41E-09	1.89E-08	3.39E-09	3.39E-09	1.86E-09	2.90E-08	7.66E-10	1.02E-08	1.51E-09	1.51E-09	7.45E-10	1.48E-08
282	259064.16	4085099.69	1.02E-08	1.36E-07	2.38E-08	2.38E-08	1.33E-08	2.07E-07	1.55E-09	2.07E-08	3.71E-09	3.71E-09	2.04E-09	3.18E-08	8.41E-10	1.12E-08	1.65E-09	1.65E-09	8.18E-10	1.62E-08
283	259063.44	4085074.93	1.06E-08	1.41E-07	2.47E-08	2.47E-08	1.38E-08	2.15E-07	1.61E-09	2.15E-08	3.85E-09	3.85E-09	2.12E-09	3.30E-08	8.72E-10	1.16E-08	1.71E-09	1.71E-09	8.49E-10	1.68E-08
284	259062.72	4085050.18	1.10E-08	1.47E-07	2.57E-08	2.57E-08	1.43E-08	2.23E-07	1.67E-09	2.24E-08	4.01E-09	4.01E-09	2.20E-09	3.43E-08	9.06E-10	1.21E-08	1.78E-09	1.78E-09	8.82E-10	1.75E-08
285	259061.99	4085025.42	1.15E-08	1.53E-07	2.67E-08	2.67E-08	1.49E-08	2.33E-07	1.74E-09	2.33E-08	4.17E-09	4.17E-09	2.29E-09	3.57E-08	9.44E-10	1.26E-08	1.86E-09	1.86E-09	9.19E-10	1.82E-08
286	259061.27	4085000.66	1.20E-08	1.60E-07	2.79E-08	2.79E-08	1.56E-08	2.43E-07	1.82E-09	2.43E-08	4.36E-09	4.36E-09	2.40E-09	3.73E-08	9.86E-10	1.32E-08	1.94E-09	1.94E-09	9.60E-10	1.90E-08
287	259060.55	4084975.91	1.25E-08	1.67E-07	2.92E-08	2.92E-08	1.63E-08	2.55E-07	1.90E-09	2.55E-08	4.56E-09	4.56E-09	2.51E-09	3.90E-08	1.03E-09	1.38E-08	2.03E-09	2.03E-09	1.00E-09	1.99E-08
288	259059.83	4084951.15	1.31E-08	1.75E-07	3.06E-08	3.06E-08	1.71E-08	2.67E-07	1.99E-09	2.67E-08	4.78E-09	4.78E-09	2.63E-09	4.09E-08	1.08E-09	1.44E-08	2.13E-09	2.13E-09	1.05E-09	2.08E-08
289	259059.1	4084926.4	1.38E-08	1.84E-07	3.21E-08	3.21E-08	1.79E-08	2.80E-07	2.09E-09	2.80E-08	5.01E-09	5.01E-09	2.76E-09	4.29E-08	1.13E-09	1.51E-08	2.23E-09	2.23E-09	1.10E-09	2.18E-08
290	259058.38	4084901.64	1.44E-08	1.93E-07	3.37E-08	3.37E-08	1.88E-08	2.93E-07	2.19E-09	2.94E-08	5.26E-09	5.26E-09	2.89E-09	4.49E-08	1.19E-09	1.59E-08	2.34E-09	2.34E-09	1.16E-09	2.29E-08
291	259255.5	4085116.67	7.19E-09	9.60E-08	1.68E-08	1.68E-08	9.35E-09	1.46E-07	1.09E-09	1.46E-08	2.62E-09	2.62E-09	1.44E-09	2.24E-08	5.93E-10	7.92E-09	1.17E-09	1.17E-09	5.77E-10	1.14E-08
292	259246.91	4085139.49	7.12E-09	9.51E-08	1.66E-08	1.66E-08	9.26E-09	1.45E-07	1.08E-09	1.45E-08	2.59E-09	2.59E-09	1.43E-09	2.22E-08	5.87E-10	7.84E-09	1.15E-09	1.15E-09	5.71E-10	1.13E-08
293	259238.33	4085162.3	7.04E-09	9.40E-08	1.64E-08	1.64E-08	9.15E-09	1.43E-07	1.07E-09	1.43E-08	2.56E-09	2.56E-09	1.41E-09	2.19E-08	5.80E-10	7.75E-09	1.14E-09	1.14E-09	5.65E-10	1.12E-08
294	259229.75	4085185.12	6.93E-09	9.25E-08	1.62E-08	1.62E-08	9.01E-09	1.41E-07	1.05E-09	1.41E-08	2.52E-09	2.52E-09	1.39E-09	2.16E-08	5.71E-10	7.63E-09	1.12E-09	1.12E-09	5.56E-10	1.10E-08
295	259221.17	4085207.94	6.78E-09	9.06E-08	1.58E-08	1.58E-08	8.82E-09	1.38E-07	1.03E-09	1.38E-08	2.47E-09	2.47E-09	1.36E-09	2.11E-08	5.59E-10	7.47E-09	1.10E-09	1.10E-09	5.44E-10	1.08E-08
296	259212.59	4085230.75	6.64E-09	8.87E-08	1.55E-08	1.55E-08	8.64E-09	1.35E-07	1.01E-09	1.35E-08	2.42E-09	2.42E-09	1.33E-09	2.07E-08	5.48E-10	7.31E-09	1.08E-09	1.08E-09	5.33E-10	1.05E-08
297	259204.01	4085253.57	6.50E-09	8.68E-08	1.52E-08	1.52E-08	8.45E-09	1.32E-07	9.86E-10	1.32E-08	2.37E-09	2.37E-09	1.30E-09	2.02E-08	5.35E-10	7.15E-09	1.05E-09	1.05E-09	5.21E-10	1.03E-08
298	259195.42	4085276.39	6.35E-09	8.48E-08	1.48E-08	1.48E-08	8.25E-09	1.29E-07	9.63E-10	1.29E-08	2.31E-09	2.31E-09	1.27E-09	1.98E-08	5.23E-10	6.99E-09	1.03E-09	1.03E-09	5.09E-10	1.01E-08
299	259186.84	4085299.2	6.20E-09	8.28E-08	1.45E-08	1.45E-08	8.06E-09	1.26E-07	9.41E-10	1.26E-08	2.26E-09	2.26E-09	1.24E-09	1.93E-08	5.11E-10	6.83E-09	1.00E-09	1.00E-09	4.97E-10	9.84E-09
300	259178.26	4085322.02	6.06E-09	8.10E-08	1.41E-08	1.41E-08	7.88E-09	1.23E-07	9.20E-10	1.23E-08	2.21E-09	2.21E-09	1.21E-09	1.89E-08	5.00E-10	6.67E-09	9.82E-10	9.82E-10	4.86E-10	9.62E-09
301	259169.68	4085344.84	5.93E-09	7.92E-08	1.38E-08	1.38E-08	7.71E-09	1.21E-07	9.00E-10	1.21E-08	2.16E-09	2.16E-09	1.19E-09	1.85E-08	4.89E-10	6.53E-09	9.61E-10	9.61E-10	4.76E-10	9.42E-09
302	259161.1	4085367.65	5.81E-09	7.76E-08	1.36E-08	1.36E-08	7.56E-09	1.18E-07	8.82E-10	1.18E-08	2.12E-09	2.12E-09	1.16E-09	1.81E-08	4.79E-10	6.40E-09	9.42E-10	9.42E-10	4.66E-10	9.23E-09
303	259152.52	4085390.47	5.70E-09	7.62E-08	1.33E-08	1.33E-08	7.42E-09	1.16E-07	8.66E-10	1.16E-08	2.08E-09	2.08E-09	1.14E-09	1.78E-08	4.70E-10	6.28E-09	9.24E-10	9.24E-10	4.58E-10	9.06E-09
304	259143.93	4085413.28	5.60E-09	7.48E-08	1.31E-08	1.31E-08	7.29E-09	1.14E-07	8.50E-10	1.14E-08	2.04E-09	2.04E-09	1.12E-09	1.75E-08	4.62E-10	6.17E-09	9.08E-10	9.08E-10	4.49E-10	8.90E-09
305	259135.35	4085436.1	5.51E-09	7.36E-08	1.29E-08	1.29E-08	7.17E-09	1.12E-07	8.36E-10	1.12E-08	2.01E-09	2.01E-09	1.10E-09	1.72E-08	4.54E-10	6.07E-09	8.93E-10	8.93E-10	4.42E-10	8.75E-09
306	259126.77	4085458.92	5.42E-09	7.24E-08	1.26E-08	1.26E-08	7.05E-09	1.10E-07	8.22E-10	1.10E-08	1.97E-09	1.97E-09	1.09E-09	1.69E-08	4.47E-10	5.97E-09	8.78E-10	8.78E-10	4.35E-10	8.60E-09
307	259118.19	4085481.73	5.33E-09	7.12E-08	1.24E-08	1.24E-08	6.93E-09	1.08E-07	8.09E-10	1.08E-08	1.94E-09	1.94E-09	1.07E-09	1.66E-08	4.39E-10	5.87E-09	8.64E-10	8.64E-10	4.28E-10	8.46E-09
308	259109.61	4085504.55	5.24E-09	7.00E-08	1.22E-08	1.22E-08	6.81E-09	1.06E-07	7.95E-10	1.07E-08	1.91E-09	1.91E-09	1.05E-09	1.63E-08	4.32E-10	5.77E-09	8.49E-10	8.49E-10	4.20E-10	8.32E-09
309	259101.02	4085527.37	5.15E-09	6.88E-08	1.20E-08	1.20E-08	6.70E-09	1.05E-07	7.81E-10	1.05E-08	1.88E-09	1.88E-09	1.03E-09	1.60E-08	4.24E-10	5.67E-09	8.34E-10	8.34E-10	4.13E-10	8.17E-09
310	259092.44	4085550.18	5.06E-09	6.75E-08	1.18E-08	1.18E-08	6.58E-09	1.03E-07	7.67E-10	1.03E-08	1.84E-09	1.84E-09	1.01E-09	1.58E-08	4.17E-10	5.57E-09	8.20E-10	8.20E-10	4.06E-10	8.03E-09
311	259083.86	4085573	4.96E-09	6.63E-08	1.16E-08	1.16E-08	6.45E-09	1.01E-07	7.53E-10	1.01E-08	1.81E-09	1.81E-09	9.94E-10	1.55E-08	4.09E-10	5.46E-09	8.04E-10	8.04E-10	3.98E-10	7.88E-09
312	259075.28	4085595.82	4.87E-09	6.50E-08	1.14E-08	1.14E-08	6.33E-09	9.89E-08	7.39E-10	9.90E-09	1.77E-09	1.77E-09	9.75E-10	1.52E-08	4.01E-10	5.36E-09	7.89E-10	7.89E-10	3.90E-10	7.73E-09
313	259066.7	4085618.63	4.77E-09	6.37E-08	1.11E-08	1.11E-08	6.21E-09	9.70E-08	7.24E-10	9.71E-09	1.74E-09	1.74E-09	9.56E-10	1.49E-08	3.93E-10	5.25E-09	7.73E-10	7.73E-10	3.83E-10	7.58E-09
314	259058.12	4085641.45	4.68E-09	6.25E-08	1.09E-08	1.09E-08	6.09E-09	9.51E-08	7.10E-10	9.53E-09	1.71E-09	1.71E-09	9.37E-10	1.46E-08	3.86E-10	5.15E-09	7.59E-10	7.59E-10	3.76E-10	7.43E-09
315	259049.53	4085664.27	4.60E-09	6.14E-08	1.07E-08	1.07E-08	5.98E-09	9.34E-08	6.97E-10	9.35E-09	1.67E-09	1.67E-09	9.20E-10	1.43E-08	3.79E-10	5.06E-09	7.45E-10	7.45E-10	3.69E-10	7.30E-09
316	259040.95	4085687.08	4.51E-09	6.03E-08	1.05E-08	1.05E-08	5.87E-09	9.17E-08	6.85E-10	9.18E-09	1.64E-09	1.64E-09	9.04E-10	1.41E-08	3.72E-10	4.97E-09	7.32E-10	7.32E-10	3.62E-10	7.17E-09
317	259032.37	4085709.9	4.44E-09	5.93E-08	1.04E-08	1.04E-08	5.77E-09	9.02E-08	6.74E-10	9.03E-09	1.62E-09	1.62E-09	8.89E-10	1.38E-08	3.66E-10	4.89E-09	7.19E-10	7.19E-10	3.56E-10	7.05E-09
318	259001.66	4085742.95	4.42E-09	5.91E-08	1.03E-08	1.03E-08	5.75E-09	8.99E-08	6.71E-10	9.00E-09	1.61E-09	1.61E-09	8.86E-10	1.38E-08	3.65E-10	4.87E-09	7.17E-10	7.17E-10	3.55E-10	7.02E-09
319	258979.54	4085753.18	4.48E-09	5.98E-08	1.05E-08	1.05E-08	5.83E-09	9.11E-08	6.80E-10	9.12E-09	1.63E-09	1.63E-09	8.97E-10	1.40E-08	3.69E-10	4.93E-09	7.26E-10	7.26E-10	3.59E-10	7.11E-09
320	258957.41	4085763.41	4.54E-09	6.07E-08	1.06E-08	1.06E-08	5.91E-09	9.23E-08	6.89E-10	9.24E-09	1.65E-09	1.65E-09	9.09E-10	1.41E-08	3.74E-10	5.00E-09	7.36E-10	7.36E-10	3.64E-10	7.21E-09
321	258935.29	4085773.65	4.60E-09	6.15E-08	1.07E-08	1.07E-08	5.99E-09	9.36E-08	6.99E-10	9.37E-09	1.68E-09	1.68E-09	9.22E-10	1.43E-08	3.80E-10	5.07E-09	7.46E-10	7.46E-10	3.69E-10	7.31E-09
322	258913.16	4085783.88	4.67E-09	6.24E-08	1.09E-08	1.09E-08	6.08E-09	9.50E-08	7.09E-10	9.51E-09	1.70E-09	1.70E-09	9.36E-10	1.46E-08	3.85E-10	5.14E-09	7.57E-10	7.57E-10	3.75E-10	7.42E-09
323	258891.04	4085794.11	4.74E-09	6.34E-08	1.11E-08	1.11E-08	6.17E-09	9.64E-08	7.20E-10	9.66E-09	1.73E-09	1.73E-09	9.50E-10	1.48E-08	3.91E-10	5.22E-09	7.69E-10	7.69E-10	3.81E-10	7.53E-09
324	258868.91	4085804.34	4.82E-09	6.44E-08	1.13E-08	1.13E-08	6.27E-09	9.80E-08	7.32E-10	9.81E-09	1.76E-09	1.76E-09	9.66E-10	1.50E-08	3.98E-10	5.31E-09	7.82E-10	7.82E-10	3.87E-10	7.66E-09
325	258846.79	4085814.58	4.91E-09	6.56E-08	1.15E-08	1.15E-08	6.39E-09	9.98E-08	7.45E-10	9.99E-09	1.79E-09	1.79E-09	9.83E-10	1.53E-08	4.05E-10	5.41E-09	7.96E-10	7.96E-10	3.94E-10	7.80E-09
326	258824.66	4085824.81	5.01E-09	6.69E-08	1.17E-08	1.17E-08	6.52E-09	1.02E-07	7.60E-10	1.02E-08	1.83E-09	1.83E-09	1.00E-09	1.56E-08	4.13E-10	5.52E-09	8.12E-10	8.12E-10	4.02E-10	7.96E-09
327	258802.54	4085835.04	5.12E-09	6.84E-08	1.19E-08	1.19E-08	6.66E-09	1.04E-07	7.77E-10	1.04E-08	1.87E-09	1.87E-09	1.03E-09	1.60E-08	4.22E-10	5.64E-09	8.30E-10	8.30E-10	4.11E-10	8.13E-09
328	258780.41	4085845.27	5.24E-09	7.00E-08	1.22E-08	1.22E-08	6.81E-09	1.06E-07	7.95E-10	1.07E-08	1.91E-09	1.91E-09	1.05E-09	1.63E-08	4.32E-10	5.77E-09	8.49E-10	8.49E-10	4.20E-10	8.32E-09
329	258758.29	4085855.51	5.37E-09	7.17E-08	1.25E-08	1.25E-08	6.98E-09	1.09E-07	8.15E-10	1.09E-08	1.96E-09	1.96E-09	1.08E-09	1.67E-08	4.42E-10	5.91E-09	8.70E-10	8.70E-10	4.31E-10	8.52E-09
330	258736.16	4085865.74	5.50E-09	7.34E-08	1.28E-08	1.28E-08	7.15E-09	1.12E-07	8.34E-10	1.12E-08	2.00E-09	2.00E-09	1.10E-09	1.71E-08	4.53E-10	6.05E-09	8.91E-10	8.91E-10	4.41E-10	8.73E-09
331	258714.04	4085875.97	5.61E-09	7.50E-08	1.31E-08	1.31E-08	7.30E-09	1.14E-07	8.52E-10	1.14E-08	2.05E-09	2.05E-09	1.12E-09	1.75E-08	4.63E-10	6.18E-09	9.10E-10	9.10E-10	4.50E-10	8.91E-09
332	258691.91	4085886.2	5.73E-09	7.65E-08	1.34E-08	1.34E-08	7.45E-09	1.16E-07	8.69E-10	1.17E-08	2.09E-09	2.09E-09	1.15E-09	1.78E-08	4.72E-10	6.31E-09	9.28E-10	9.28E-10	4.59E-10	9.09E-09
333	258669.79	4085896.44	5.83E-09	7.78E-08	1.36E-08	1.36E-08	7.58E-09	1.18E-07	8.84E-10	1.19E-08	2.12E-09	2.12E-09	1.17E-09	1.81E-08	4.80E-10	6.41E-09	9.44E-10	9.44E-10	4.67E-10	9.25E-09
334	258647.66	4085906.67	5.92E-09	7.90E-08	1.38E-08	1.38E-08	7.70E-09	1.20E-07	8.98E-10	1.20E-08	2.16E-09	2.16E-09	1.18E-09	1.84E-08	4.88E-10	6.51E-09	9.59E-10	9.59E-10	4.75E-10	9.39E-09
335	258625.54	4085916.9	6.00E-09	8.01E-08	1.40E-08	1.40E-08	7.80E-09	1.22E-07	9.11E-10	1.22E-08	2.19E-09	2.19E-09	1.20E-09	1.87E-08	4.95E-10	6.61E-09	9.72E-10	9.72E-10	4.81E-10	9.53E-09
336	258603.41	4085927.13	6.08E-09	8.12E-08	1.42E-08	1.42E-08	7.91E-09	1.24E-07	9.23E-10	1.24E-08	2.22E-09	2.22E-09	1.22E-09	1.89E-08	5.01E-10	6.70E-09	9.86E-10	9.86E-10	4.88E-10	9.66E-09
337	258581.28	4085937.37	6.17E-09	8.24E-08	1.44E-08	1.44E-08	8.02E-09	1.25E-07	9.36E-10	1.25E-08	2.25E-09	2.25E-09	1.23E-09	1.92E-08	5.08E-10	6.79E-09	9.99E-10	9.99E-10	4.95E-10	9.79E-09
338	258559.16	4085947.6	6.25E-09	8.35E-08	1.46E-08	1.46E-08	8.13E-09	1.27E-07	9.49E-10	1.27E-08	2.28E-09	2.28E-09	1.25E-09	1.95E-08	5.15E-10	6.89E-09	1.01E-09	1.01E-09	5.02E-10	9.93E-09
339	258537.03	4085957.83	6.35E-09	8.48E-08	1.48E-08	1.48E-08	8.26E-09	1.29E-07	9.63E-10	1.29E-08	2.31E-09	2.31E-09	1.27E-09	1.98E-08	5.23E-10	6.99E-09	1.03E-09	1.03E-09	5.09E-10	1.01E-08
340	258514.91	4085968.07	6.45E-09	8.61E-08	1.50E-08	1.50E-08	8.39E-09	1.31E-07	9.78E-10	1.31E-08	2.35E-09	2.35E-09	1.29E-09	2.01E-08	5.31E-10	7.10E-09	1.04E-09	1.04E-09	5.17E-10	1.02E-08
341	258492.78	4085978.3	6.55E-09	8.75E-08	1.53E-08	1.53E-08	8.52E-09	1.33E-07	9.94E-10	1.33E-08	2.39E-09	2.39E-09	1.31E-09	2.04E-08	5.40E-10	7.21E-09	1.06E-09	1.06E-09	5.26E-10	1.04E-08
342	258470.66	4085988.53	6.66E-09	8.89E-08	1.55E-08	1.55E-08	8.66E-09	1.35E-07	1.01E-09	1.35E-08	2.43E-09	2.43E-09	1.33E-09	2.07E-08	5.49E-10	7.33E-09	1.08E-09	1.08E-09	5.34E-10	1.06E-08
343	258448.53	4085998.76	6.77E-09	9.04E-08	1.58E-08	1.58E-08	8.80E-09	1.38E-07	1.03E-09	1.38E-08	2.47E-09	2.47E-09	1.36E-09	2.11E-08	5.58E-10	7.45E-09	1.10E-09	1.10E-09	5.43E-10	1.07E-08
344	258426.41	4086009	6.88E-09	9.19E-08	1.60E-08	1.60E-08	8.95E-09	1.40E-07	1.04E-09	1.40E-08	2.51E-09	2.51E-09	1.38E-09	2.14E-08	5.67E-10	7.57E-09	1.11E-09	1.11E-09	5.52E-10	1.09E-08
345	259264.08	4085093.86	7.25E-09	9.69E-08	1.69E-08	1.69E-08	9.44E-09	1.47E-07	1.10E-09	1.48E-08	2.64E-09	2.64E-09	1.45E-09	2.26E-08	5.98E-10	7.99E-09	1.18E-09	1.18E-09	5.82E-10	1.15E-08
346	259263.35	4085069.1	7.44E-09	9.94E-08	1.74E-08	1.74E-08	9.68E-09	1.51E-07	1.13E-09	1.51E-08	2.71E-09	2.71E-09	1.49E-09	2.32E-08	6.14E-10	8.20E-09	1.21E-09	1.21E-09	5.97E-10	1.18E-08
347	259262.63	4085044.34	7.66E-09	1.02E-07	1.79E-08	1.79E-08	9.96E-09	1.56E-07	1.16E-09	1.56E-08	2.79E-09	2.79E-09	1.53E-09	2.39E-08	6.31E-10	8.43E-09	1.24E-09	1.24E-09	6.14E-10	1.22E-08
348	259261.91	4085019.59	7.90E-09	1.06E-07	1.84E-08	1.84E-08	1.03E-08	1.61E-07	1.20E-09	1.61E-08	2.88E-09	2.88E-09	1.58E-09	2.46E-08	6.51E-10	8.70E-09	1.28E-09	1.28E-09	6.34E-10	1.25E-08
349	259261.19	4084994.83	8.18E-09	1.09E-07	1.91E-08	1.91E-08	1.06E-08	1.66E-07	1.24E-09	1.67E-08	2.98E-09	2.98E-09	1.64E-09	2.55E-08	6.75E-10	9.01E-09	1.33E-09	1.33E-09	6.57E-10	1.30E-08
350	259260.46	4084970.07	8.50E-09	1.14E-07	1.98E-08	1.98E-08	1.11E-08	1.73E-07	1.29E-09	1.73E-08	3.10E-09	3.10E-09	1.70E-09	2.65E-08	7.01E-10	9.36E-09	1.38E-09	1.38E-09	6.82E-10	1.35E-08
351	259259.74	4084945.32	8.84E-09	1.18E-07	2.06E-08	2.06E-08	1.15E-08	1.80E-07	1.34E-09	1.80E-08	3.22E-09	3.22E-09	1.77E-09	2.75E-08	7.28E-10	9.73E-09	1.43E-09	1.43E-09	7.09E-10	1.40E-08
352	259259.02	4084920.56	9.19E-09	1.23E-07	2.14E-08	2.14E-08	1.20E-08	1.87E-07	1.39E-09	1.87E-08	3.35E-09	3.35E-09	1.84E-09	2.86E-08	7.57E-10	1.01E-08	1.49E-09	1.49E-09	7.37E-10	1.46E-08
353	259258.3	4084895.81	9.55E-09	1.28E-07	2.23E-08	2.23E-08	1.24E-08	1.94E-07	1.45E-09	1.94E-08	3.48E-09	3.48E-09	1.91E-09	2.97E-08	7.87E-10	1.05E-08	1.55E-09	1.55E-09	7.66E-10	1.52E-08
354	259455.35	4085110.99	5.52E-09	7.37E-08	1.29E-08	1.29E-08	7.18E-09	1.12E-07	8.38E-10	1.12E-08	2.01E-09	2.01E-09	1.11E-09	1.72E-08	4.55E-10	6.08E-09	8.95E-10	8.95E-10	4.43E-10	8.77E-09
355	259446.72	4085133.95	5.49E-09	7.34E-08	1.28E-08	1.28E-08	7.15E-09	1.12E-07	8.34E-10	1.12E-08	2.00E-09	2.00E-09	1.10E-09	1.71E-08	4.53E-10	6.05E-09	8.90E-10	8.90E-10	4.41E-10	8.72E-09
356	259438.08	4085156.92	5.46E-09	7.29E-08	1.27E-08	1.27E-08	7.10E-09	1.11E-07	8.29E-10	1.11E-08	1.99E-09	1.99E-09	1.09E-09	1.70E-08	4.50E-10	6.01E-09	8.85E-10	8.85E-10	4.38E-10	8.67E-09
357	259429.44	4085179.88	5.41E-09	7.23E-08	1.26E-08	1.26E-08	7.04E-09	1.10E-07	8.22E-10	1.10E-08	1.97E-09	1.97E-09	1.08E-09	1.69E-08	4.46E-10	5.96E-09	8.77E-10	8.77E-10	4.34E-10	8.60E-09
358	259420.8	4085202.85	5.35E-09	7.15E-08	1.25E-08	1.25E-08	6.96E-09	1.09E-07	8.12E-10	1.09E-08	1.95E-09	1.95E-09	1.07E-09	1.67E-08	4.41E-10	5.89E-09	8.67E-10	8.67E-10	4.29E-10	8.50E-09
359	259412.17	4085225.81	5.27E-09	7.04E-08	1.23E-08	1.23E-08	6.86E-09	1.07E-07	8.00E-10	1.07E-08	1.92E-09	1.92E-09	1.06E-09	1.64E-08	4.35E-10	5.81E-09	8.55E-10	8.55E-10	4.23E-10	8.37E-09
360	259403.53	4085248.78	5.18E-09	6.92E-08	1.21E-08	1.21E-08	6.74E-09	1.05E-07	7.86E-10	1.05E-08	1.89E-09	1.89E-09	1.04E-09	1.61E-08	4.27E-10	5.71E-09	8.40E-10	8.40E-10	4.16E-10	8.23E-09
361	259394.89	4085271.74	5.08E-09	6.79E-08	1.19E-08	1.19E-08	6.61E-09	1.03E-07	7.71E-10	1.03E-08	1.85E-09	1.85E-09	1.02E-09	1.58E-08	4.19E-10	5.59E-09	8.23E-10	8.23E-10	4.08E-10	8.07E-09
362	259386.25	4085294.71	4.97E-09	6.64E-08	1.16E-08	1.16E-08	6.47E-09	1.01E-07	7.55E-10	1.01E-08	1.81E-09	1.81E-09	9.96E-10	1.55E-08	4.10E-10	5.48E-09	8.06E-10	8.06E-10	3.99E-10	7.90E-09
363	259377.61	4085317.68	4.86E-09	6.49E-08	1.13E-08	1.13E-08	6.32E-09	9.88E-08	7.38E-10	9.89E-09	1.77E-09	1.77E-09	9.74E-10	1.51E-08	4.01E-10	5.35E-09	7.88E-10	7.88E-10	3.90E-10	7.72E-09
364	259368.98	4085340.64	4.75E-09	6.34E-08	1.11E-08	1.11E-08	6.17E-09	9.65E-08	7.20E-10	9.66E-09	1.73E-09	1.73E-09	9.51E-10	1.48E-08	3.91E-10	5.23E-09	7.69E-10	7.69E-10	3.81E-10	7.54E-09
365	259360.34	4085363.61	4.65E-09	6.21E-08	1.08E-08	1.08E-08	6.04E-09	9.44E-08	7.05E-10	9.46E-09	1.69E-09	1.69E-09	9.31E-10	1.45E-08	3.83E-10	5.12E-09	7.53E-10	7.53E-10	3.73E-10	7.38E-09

366	259351.7	4085386.57	4.56E-09	6.09E-08	1.06E-08	1.06E-08	5.93E-09	9.26E-08	6.92E-10	9.27E-09	1.66E-09	1.66E-09	9.13E-10	1.42E-08	3.76E-10	5.02E-09	7.39E-10	7.39E-10	3.66E-10	7.24E-09
367	259343.06	4085409.54	4.48E-09	5.98E-08	1.04E-08	1.04E-08	5.82E-09	9.10E-08	6.79E-10	9.11E-09	1.63E-09	1.63E-09	8.96E-10	1.39E-08	3.69E-10	4.93E-09	7.25E-10	7.25E-10	3.59E-10	7.11E-09
368	259334.43	4085432.5	4.40E-09	5.88E-08	1.03E-08	1.03E-08	5.73E-09	8.95E-08	6.68E-10	8.96E-09	1.60E-09	1.60E-09	8.82E-10	1.37E-08	3.63E-10	4.85E-09	7.14E-10	7.14E-10	3.53E-10	6.99E-09
369	259325.79	4085455.47	4.34E-09	5.80E-08	1.01E-08	1.01E-08	5.64E-09	8.82E-08	6.58E-10	8.83E-09	1.58E-09	1.58E-09	8.69E-10	1.35E-08	3.58E-10	4.78E-09	7.03E-10	7.03E-10	3.48E-10	6.89E-09
370	259317.15	4085478.43	4.28E-09	5.71E-08	9.98E-09	9.98E-09	5.56E-09	8.70E-08	6.49E-10	8.71E-09	1.56E-09	1.56E-09	8.57E-10	1.33E-08	3.53E-10	4.71E-09	6.93E-10	6.93E-10	3.43E-10	6.79E-09
371	259308.51	4085501.4	4.22E-09	5.64E-08	9.85E-09	9.85E-09	5.49E-09	8.58E-08	6.41E-10	8.59E-09	1.54E-09	1.54E-09	8.46E-10	1.32E-08	3.48E-10	4.65E-09	6.85E-10	6.85E-10	3.39E-10	6.71E-09
372	259299.87	4085524.37	4.17E-09	5.57E-08	9.73E-09	9.73E-09	5.43E-09	8.48E-08	6.33E-10	8.49E-09	1.52E-09	1.52E-09	8.35E-10	1.30E-08	3.44E-10	4.59E-09	6.76E-10	6.76E-10	3.35E-10	6.62E-09
373	259291.24	4085547.33	4.12E-09	5.50E-08	9.61E-09	9.61E-09	5.36E-09	8.37E-08	6.25E-10	8.38E-09	1.50E-09	1.50E-09	8.25E-10	1.28E-08	3.40E-10	4.54E-09	6.68E-10	6.68E-10	3.31E-10	6.54E-09
374	259282.6	4085570.3	4.07E-09	5.44E-08	9.50E-09	9.50E-09	5.29E-09	8.27E-08	6.18E-10	8.28E-09	1.48E-09	1.48E-09	8.15E-10	1.27E-08	3.36E-10	4.48E-09	6.60E-10	6.60E-10	3.27E-10	6.46E-09
375	259273.96	4085593.26	4.02E-09	5.37E-08	9.38E-09	9.38E-09	5.23E-09	8.17E-08	6.10E-10	8.18E-09	1.46E-09	1.46E-09	8.05E-10	1.25E-08	3.31E-10	4.43E-09	6.51E-10	6.51E-10	3.22E-10	6.38E-09
376	259265.32	4085616.23	3.97E-09	5.30E-08	9.26E-09	9.26E-09	5.16E-09	8.07E-08	6.02E-10	8.08E-09	1.45E-09	1.45E-09	7.95E-10	1.24E-08	3.27E-10	4.37E-09	6.43E-10	6.43E-10	3.18E-10	6.30E-09
377	259256.69	4085639.19	3.92E-09	5.23E-08	9.14E-09	9.14E-09	5.09E-09	7.96E-08	5.94E-10	7.97E-09	1.43E-09	1.43E-09	7.84E-10	1.22E-08	3.23E-10	4.31E-09	6.35E-10	6.35E-10	3.14E-10	6.22E-09
378	259248.05	4085662.16	3.86E-09	5.16E-08	9.00E-09	9.00E-09	5.02E-09	7.84E-08	5.86E-10	7.85E-09	1.41E-09	1.41E-09	7.73E-10	1.20E-08	3.18E-10	4.25E-09	6.25E-10	6.25E-10	3.10E-10	6.13E-09
379	259239.41	4085685.12	3.80E-09	5.08E-08	8.87E-09	8.87E-09	4.94E-09	7.73E-08	5.77E-10	7.73E-09	1.38E-09	1.38E-09	7.61E-10	1.18E-08	3.13E-10	4.19E-09	6.16E-10	6.16E-10	3.05E-10	6.04E-09
380	259230.77	4085708.09	3.74E-09	4.99E-08	8.72E-09	8.72E-09	4.86E-09	7.60E-08	5.67E-10	7.61E-09	1.36E-09	1.36E-09	7.49E-10	1.16E-08	3.08E-10	4.12E-09	6.06E-10	6.06E-10	3.00E-10	5.94E-09
381	259222.13	4085731.06	3.68E-09	4.91E-08	8.58E-09	8.58E-09	4.78E-09	7.47E-08	5.58E-10	7.48E-09	1.34E-09	1.34E-09	7.36E-10	1.15E-08	3.03E-10	4.05E-09	5.96E-10	5.96E-10	2.95E-10	5.84E-09
382	259213.5	4085754.02	3.62E-09	4.83E-08	8.44E-09	8.44E-09	4.70E-09	7.35E-08	5.49E-10	7.36E-09	1.32E-09	1.32E-09	7.24E-10	1.13E-08	2.98E-10	3.98E-09	5.86E-10	5.86E-10	2.90E-10	5.74E-09
383	259204.86	4085776.99	3.56E-09	4.75E-08	8.30E-09	8.30E-09	4.63E-09	7.23E-08	5.40E-10	7.24E-09	1.30E-09	1.30E-09	7.12E-10	1.11E-08	2.93E-10	3.92E-09	5.76E-10	5.76E-10	2.85E-10	5.65E-09
384	259196.22	4085799.95	3.50E-09	4.68E-08	8.17E-09	8.17E-09	4.56E-09	7.12E-08	5.32E-10	7.13E-09	1.28E-09	1.28E-09	7.01E-10	1.09E-08	2.89E-10	3.86E-09	5.68E-10	5.68E-10	2.81E-10	5.56E-09
385	259187.58	4085822.92	3.45E-09	4.61E-08	8.05E-09	8.05E-09	4.49E-09	7.01E-08	5.24E-10	7.02E-09	1.26E-09	1.26E-09	6.91E-10	1.08E-08	2.84E-10	3.80E-09	5.59E-10	5.59E-10	2.77E-10	5.48E-09
386	259178.95	4085845.88	3.41E-09	4.55E-08	7.95E-09	7.95E-09	4.43E-09	6.92E-08	5.17E-10	6.93E-09	1.24E-09	1.24E-09	6.82E-10	1.06E-08	2.81E-10	3.75E-09	5.52E-10	5.52E-10	2.73E-10	5.41E-09
387	259148.04	4085879.15	3.40E-09	4.54E-08	7.94E-09	7.94E-09	4.42E-09	6.91E-08	5.16E-10	6.92E-09	1.24E-09	1.24E-09	6.81E-10	1.06E-08	2.80E-10	3.75E-09	5.51E-10	5.51E-10	2.73E-10	5.40E-09
388	259125.77	4085889.45	3.44E-09	4.60E-08	8.03E-09	8.03E-09	4.48E-09	7.00E-08	5.22E-10	7.00E-09	1.25E-09	1.25E-09	6.89E-10	1.07E-08	2.84E-10	3.79E-09	5.58E-10	5.58E-10	2.76E-10	5.47E-09
389	259103.5	4085899.75	3.48E-09	4.65E-08	8.12E-09	8.12E-09	4.53E-09	7.08E-08	5.28E-10	7.09E-09	1.27E-09	1.27E-09	6.97E-10	1.08E-08	2.87E-10	3.83E-09	5.64E-10	5.64E-10	2.79E-10	5.53E-09
390	259081.23	4085910.05	3.52E-09	4.71E-08	8.22E-09	8.22E-09	4.58E-09	7.16E-08	5.35E-10	7.17E-09	1.28E-09	1.28E-09	7.06E-10	1.10E-08	2.90E-10	3.88E-09	5.71E-10	5.71E-10	2.83E-10	5.60E-09
391	259058.96	4085920.35	3.57E-09	4.77E-08	8.32E-09	8.32E-09	4.64E-09	7.25E-08	5.41E-10	7.26E-09	1.30E-09	1.30E-09	7.15E-10	1.11E-08	2.94E-10	3.93E-09	5.78E-10	5.78E-10	2.86E-10	5.66E-09
392	259036.69	4085930.65	3.61E-09	4.83E-08	8.43E-09	8.43E-09	4.70E-09	7.34E-08	5.48E-10	7.35E-09	1.32E-09	1.32E-09	7.24E-10	1.13E-08	2.98E-10	3.98E-09	5.86E-10	5.86E-10	2.90E-10	5.74E-09
393	259014.42	4085940.95	3.66E-09	4.89E-08	8.54E-09	8.54E-09	4.76E-09	7.44E-08	5.56E-10	7.45E-09	1.33E-09	1.33E-09	7.33E-10	1.14E-08	3.02E-10	4.03E-09	5.93E-10	5.93E-10	2.94E-10	5.81E-09
394	258992.15	4085951.25	3.71E-09	4.96E-08	8.66E-09	8.66E-09	4.83E-09	7.54E-08	5.63E-10	7.55E-09	1.35E-09	1.35E-09	7.43E-10	1.16E-08	3.06E-10	4.09E-09	6.02E-10	6.02E-10	2.98E-10	5.89E-09
395	258969.88	4085961.54	3.76E-09	5.03E-08	8.78E-09	8.78E-09	4.90E-09	7.65E-08	5.71E-10	7.66E-09	1.37E-09	1.37E-09	7.54E-10	1.17E-08	3.10E-10	4.14E-09	6.10E-10	6.10E-10	3.02E-10	5.98E-09
396	258947.61	4085971.84	3.82E-09	5.10E-08	8.90E-09	8.90E-09	4.96E-09	7.75E-08	5.79E-10	7.76E-09	1.39E-09	1.39E-09	7.64E-10	1.19E-08	3.15E-10	4.20E-09	6.18E-10	6.18E-10	3.06E-10	6.06E-09
397	258925.34	4085982.14	3.88E-09	5.18E-08	9.05E-09	9.05E-09	5.05E-09	7.89E-08	5.89E-10	7.90E-09	1.41E-09	1.41E-09	7.77E-10	1.21E-08	3.20E-10	4.27E-09	6.29E-10	6.29E-10	3.11E-10	6.16E-09
398	258903.07	4085992.44	3.96E-09	5.29E-08	9.24E-09	9.24E-09	5.15E-09	8.05E-08	6.01E-10	8.06E-09	1.44E-09	1.44E-09	7.93E-10	1.23E-08	3.26E-10	4.36E-09	6.42E-10	6.42E-10	3.18E-10	6.29E-09
399	258880.8	4086002.74	4.05E-09	5.40E-08	9.44E-09	9.44E-09	5.26E-09	8.22E-08	6.14E-10	8.23E-09	1.47E-09	1.47E-09	8.10E-10	1.26E-08	3.33E-10	4.45E-09	6.56E-10	6.56E-10	3.25E-10	6.42E-09
400	258858.53	4086013.04	4.14E-09	5.53E-08	9.66E-09	9.66E-09	5.38E-09	8.41E-08	6.28E-10	8.42E-09	1.51E-09	1.51E-09	8.29E-10	1.29E-08	3.41E-10	4.56E-09	6.71E-10	6.71E-10	3.32E-10	6.57E-09
401	258836.26	4086023.34	4.24E-09	5.66E-08	9.89E-09	9.89E-09	5.51E-09	8.61E-08	6.43E-10	8.62E-09	1.54E-09	1.54E-09	8.49E-10	1.32E-08	3.49E-10	4.67E-09	6.87E-10	6.87E-10	3.40E-10	6.73E-09
402	258813.99	4086033.64	4.34E-09	5.79E-08	1.01E-08	1.01E-08	5.64E-09	8.81E-08	6.58E-10	8.82E-09	1.58E-09	1.58E-09	8.69E-10	1.35E-08	3.57E-10	4.77E-09	7.03E-10	7.03E-10	3.48E-10	6.89E-09
403	258791.72	4086043.94	4.43E-09	5.92E-08	1.03E-08	1.03E-08	5.76E-09	9.00E-08	6.72E-10	9.01E-09	1.61E-09	1.61E-09	8.87E-10	1.38E-08	3.65E-10	4.88E-09	7.18E-10	7.18E-10	3.55E-10	7.03E-09
404	258769.45	4086054.24	4.52E-09	6.03E-08	1.05E-08	1.05E-08	5.87E-09	9.18E-08	6.85E-10	9.19E-09	1.64E-09	1.64E-09	9.04E-10	1.41E-08	3.72E-10	4.97E-09	7.32E-10	7.32E-10	3.62E-10	7.17E-09
405	258747.18	4086064.54	4.59E-09	6.13E-08	1.07E-08	1.07E-08	5.97E-09	9.33E-08	6.97E-10	9.34E-09	1.67E-09	1.67E-09	9.20E-10	1.43E-08	3.78E-10	5.06E-09	7.44E-10	7.44E-10	3.68E-10	7.29E-09
406	258724.91	4086074.84	4.66E-09	6.22E-08	1.09E-08	1.09E-08	6.06E-09	9.46E-08	7.07E-10	9.47E-09	1.70E-09	1.70E-09	9.32E-10	1.45E-08	3.84E-10	5.13E-09	7.55E-10	7.55E-10	3.73E-10	7.39E-09
407	258702.64	4086085.14	4.71E-09	6.29E-08	1.10E-08	1.10E-08	6.13E-09	9.58E-08	7.15E-10	9.59E-09	1.72E-09	1.72E-09	9.44E-10	1.47E-08	3.88E-10	5.19E-09	7.64E-10	7.64E-10	3.78E-10	7.48E-09
408	258680.37	4086095.44	4.76E-09	6.36E-08	1.11E-08	1.11E-08	6.20E-09	9.68E-08	7.23E-10	9.69E-09	1.74E-09	1.74E-09	9.54E-10	1.48E-08	3.93E-10	5.24E-09	7.72E-10	7.72E-10	3.82E-10	7.56E-09
409	258658.1	4086105.74	4.81E-09	6.42E-08	1.12E-08	1.12E-08	6.25E-09	9.77E-08	7.30E-10	9.79E-09	1.75E-09	1.75E-09	9.63E-10	1.50E-08	3.96E-10	5.29E-09	7.79E-10	7.79E-10	3.86E-10	7.64E-09
410	258635.83	4086116.04	4.85E-09	6.48E-08	1.13E-08	1.13E-08	6.31E-09	9.87E-08	7.37E-10	9.88E-09	1.77E-09	1.77E-09	9.72E-10	1.51E-08	4.00E-10	5.34E-09	7.87E-10	7.87E-10	3.89E-10	7.71E-09
411	258613.56	4086126.34	4.90E-09	6.55E-08	1.14E-08	1.14E-08	6.38E-09	9.96E-08	7.44E-10	9.97E-09	1.79E-09	1.79E-09	9.82E-10	1.53E-08	4.04E-10	5.40E-09	7.94E-10	7.94E-10	3.93E-10	7.78E-09
412	258591.29	4086136.64	4.95E-09	6.61E-08	1.16E-08	1.16E-08	6.44E-09	1.01E-07	7.51E-10	1.01E-08	1.80E-09	1.80E-09	9.91E-10	1.54E-08	4.08E-10	5.45E-09	8.02E-10	8.02E-10	3.97E-10	7.86E-09
413	258569.02	4086146.94	5.01E-09	6.69E-08	1.17E-08	1.17E-08	6.51E-09	1.02E-07	7.60E-10	1.02E-08	1.82E-09	1.82E-09	1.00E-09	1.56E-08	4.13E-10	5.51E-09	8.11E-10	8.11E-10	4.02E-10	7.95E-09
414	258546.75	4086157.24	5.06E-09	6.76E-08	1.18E-08	1.18E-08	6.59E-09	1.03E-07	7.69E-10	1.03E-08	1.84E-09	1.84E-09	1.01E-09	1.58E-08	4.17E-10	5.58E-09	8.21E-10	8.21E-10	4.06E-10	8.04E-09
415	258524.48	4086167.54	5.13E-09	6.85E-08	1.20E-08	1.20E-08	6.67E-09	1.04E-07	7.78E-10	1.04E-08	1.87E-09	1.87E-09	1.03E-09	1.60E-08	4.23E-10	5.65E-09	8.31E-10	8.31E-10	4.11E-10	8.14E-09
416	258502.21	4086177.83	5.19E-09	6.94E-08	1.21E-08	1.21E-08	6.76E-09	1.06E-07	7.88E-10	1.06E-08	1.89E-09	1.89E-09	1.04E-09	1.62E-08	4.28E-10	5.72E-09	8.42E-10	8.42E-10	4.17E-10	8.25E-09
417	258479.94	4086188.13	5.27E-09	7.04E-08	1.23E-08	1.23E-08	6.85E-09	1.07E-07	8.00E-10	1.07E-08	1.92E-09	1.92E-09	1.06E-09	1.64E-08	4.34E-10	5.80E-09	8.54E-10	8.54E-10	4.23E-10	8.37E-09
418	258457.67	4086198.43	5.34E-09	7.14E-08	1.25E-08	1.25E-08	6.95E-09	1.09E-07	8.11E-10	1.09E-08	1.95E-09	1.95E-09	1.07E-09	1.66E-08	4.40E-10	5.88E-09	8.66E-10	8.66E-10	4.29E-10	8.48E-09
419	258435.4	4086208.73	5.43E-09	7.25E-08	1.27E-08	1.27E-08	7.06E-09	1.10E-07	8.24E-10	1.10E-08	1.98E-09	1.98E-09	1.09E-09	1.69E-08	4.47E-10	5.98E-09	8.80E-10	8.80E-10	4.35E-10	8.62E-09
420	259463.99	4085088.02	5.55E-09	7.41E-08	1.29E-08	1.29E-08	7.21E-09	1.13E-07	8.42E-10	1.13E-08	2.02E-09	2.02E-09	1.11E-09	1.73E-08	4.57E-10	6.11E-09	8.99E-10	8.99E-10	4.45E-10	8.81E-09
421	259463.27	4085063.26	5.65E-09	7.55E-08	1.32E-08	1.32E-08	7.35E-09	1.15E-07	8.58E-10	1.15E-08	2.06E-09	2.06E-09	1.13E-09	1.76E-08	4.66E-10	6.22E-09	9.16E-10	9.16E-10	4.53E-10	8.97E-09
422	259462.55	4085038.51	5.79E-09	7.73E-08	1.35E-08	1.35E-08	7.53E-09	1.18E-07	8.78E-10	1.18E-08	2.11E-09	2.11E-09	1.16E-09	1.80E-08	4.77E-10	6.37E-09	9.38E-10	9.38E-10	4.64E-10	9.19E-09
423	259461.82	4085013.75	5.94E-09	7.94E-08	1.39E-08	1.39E-08	7.73E-09	1.21E-07	9.02E-10	1.21E-08	2.16E-09	2.16E-09	1.19E-09	1.85E-08	4.90E-10	6.54E-09	9.63E-10	9.63E-10	4.77E-10	9.43E-09
424	259461.1	4084989	6.12E-09	8.18E-08	1.43E-08	1.43E-08	7.97E-09	1.24E-07	9.29E-10	1.25E-08	2.23E-09	2.23E-09	1.23E-09	1.91E-08	5.05E-10	6.74E-09	9.93E-10	9.93E-10	4.91E-10	9.72E-09
425	259460.38	4084964.24	6.33E-09	8.45E-08	1.48E-08	1.48E-08	8.23E-09	1.29E-07	9.60E-10	1.29E-08	2.31E-09	2.31E-09	1.27E-09	1.97E-08	5.22E-10	6.97E-09	1.03E-09	1.03E-09	5.08E-10	1.00E-08
426	259459.66	4084939.48	6.55E-09	8.75E-08	1.53E-08	1.53E-08	8.52E-09	1.33E-07	9.94E-10	1.33E-08	2.39E-09	2.39E-09	1.31E-09	2.04E-08	5.40E-10	7.21E-09	1.06E-09	1.06E-09	5.26E-10	1.04E-08
427	259458.93	4084914.73	6.78E-09	9.06E-08	1.58E-08	1.58E-08	8.82E-09	1.38E-07	1.03E-09	1.38E-08	2.47E-09	2.47E-09	1.36E-09	2.11E-08	5.59E-10	7.47E-09	1.10E-09	1.10E-09	5.44E-10	1.08E-08
428	259458.21	4084889.97	7.01E-09	9.36E-08	1.64E-08	1.64E-08	9.12E-09	1.42E-07	1.06E-09	1.43E-08	2.55E-09	2.55E-09	1.40E-09	2.18E-08	5.78E-10	7.72E-09	1.14E-09	1.14E-09	5.62E-10	1.11E-08
429	259655.23	4085105.26	4.46E-09	5.95E-08	1.04E-08	1.04E-08	5.80E-09	9.06E-08	6.76E-10	9.07E-09	1.62E-09	1.62E-09	8.93E-10	1.39E-08	3.67E-10	4.91E-09	7.22E-10	7.22E-10	3.58E-10	7.08E-09
430	259646.55	4085128.33	4.45E-09	5.94E-08	1.04E-08	1.04E-08	5.79E-09	9.04E-08	6.75E-10	9.05E-09	1.62E-09	1.62E-09	8.91E-10	1.39E-08	3.67E-10	4.90E-09	7.21E-10	7.21E-10	3.57E-10	7.07E-09
431	259637.88	4085151.4	4.44E-09	5.93E-08	1.04E-08	1.04E-08	5.78E-09	9.03E-08	6.74E-10	9.04E-09	1.62E-09	1.62E-09	8.89E-10	1.38E-08	3.66E-10	4.89E-09	7.20E-10	7.20E-10	3.56E-10	7.05E-09
432	259629.2	4085174.47	4.42E-09	5.90E-08	1.03E-08	1.03E-08	5.75E-09	8.98E-08	6.70E-10	8.99E-09	1.61E-09	1.61E-09	8.85E-10	1.38E-08	3.64E-10	4.86E-09	7.16E-10	7.16E-10	3.54E-10	7.01E-09
433	259620.52	4085197.54	4.39E-09	5.86E-08	1.02E-08	1.02E-08	5.71E-09	8.92E-08	6.66E-10	8.93E-09	1.60E-09	1.60E-09	8.79E-10	1.37E-08	3.62E-10	4.83E-09	7.11E-10	7.11E-10	3.52E-10	6.97E-09
434	259611.84	4085220.61	4.35E-09	5.81E-08	1.01E-08	1.01E-08	5.65E-09	8.84E-08	6.60E-10	8.85E-09	1.58E-09	1.58E-09	8.71E-10	1.35E-08	3.58E-10	4.79E-09	7.05E-10	7.05E-10	3.49E-10	6.90E-09
435	259603.17	4085243.68	4.29E-09	5.74E-08	1.00E-08	1.00E-08	5.59E-09	8.73E-08	6.52E-10	8.74E-09	1.56E-09	1.56E-09	8.60E-10	1.34E-08	3.54E-10	4.73E-09	6.96E-10	6.96E-10	3.45E-10	6.82E-09
436	259594.49	4085266.75	4.23E-09	5.65E-08	9.87E-09	9.87E-09	5.50E-09	8.60E-08	6.42E-10	8.61E-09	1.54E-09	1.54E-09	8.47E-10	1.32E-08	3.49E-10	4.66E-09	6.85E-10	6.85E-10	3.39E-10	6.72E-09
437	259585.81	4085289.82	4.16E-09	5.55E-08	9.70E-09	9.70E-09	5.41E-09	8.45E-08	6.31E-10	8.46E-09	1.51E-09	1.51E-09	8.32E-10	1.29E-08	3.43E-10	4.58E-09	6.74E-10	6.74E-10	3.33E-10	6.60E-09
438	259577.14	4085312.89	4.08E-09	5.45E-08	9.51E-09	9.51E-09	5.30E-09	8.29E-08	6.19E-10	8.30E-09	1.49E-09	1.49E-09	8.17E-10	1.27E-08	3.36E-10	4.49E-09	6.61E-10	6.61E-10	3.27E-10	6.48E-09
439	259568.46	4085335.96	4.00E-09	5.34E-08	9.32E-09	9.32E-09	5.20E-09	8.12E-08	6.06E-10	8.13E-09	1.46E-09	1.46E-09	8.00E-10	1.24E-08	3.29E-10	4.40E-09	6.48E-10	6.48E-10	3.21E-10	6.34E-09
440	259559.78	4085359.03	3.92E-09	5.23E-08	9.14E-09	9.14E-09	5.09E-09	7.96E-08	5.94E-10	7.97E-09	1.43E-09	1.43E-09	7.84E-10	1.22E-08	3.23E-10	4.31E-09	6.35E-10	6.35E-10	3.14E-10	6.22E-09
441	259551.11	4085382.1	3.84E-09	5.13E-08	8.95E-09	8.95E-09	4.99E-09	7.80E-08	5.82E-10	7.81E-09	1.40E-09	1.40E-09	7.69E-10	1.20E-08	3.16E-10	4.23E-09	6.22E-10	6.22E-10	3.08E-10	6.09E-09
442	259542.43	4085405.17	3.76E-09	5.03E-08	8.78E-09	8.78E-09	4.89E-09	7.65E-08	5.71E-10	7.66E-09	1.37E-09	1.37E-09	7.54E-10	1.17E-08	3.10E-10	4.14E-09	6.10E-10	6.10E-10	3.02E-10	5.97E-09
443	259533.75	4085428.24	3.69E-09	4.93E-08	8.62E-09	8.62E-09	4.80E-09	7.51E-08	5.61E-10	7.52E-09	1.35E-09	1.35E-09	7.40E-10	1.15E-08	3.04E-10	4.07E-09	5.99E-10	5.99E-10	2.96E-10	5.86E-09
444	259525.07	4085451.31	3.63E-09	4.85E-08	8.47E-09	8.47E-09	4.72E-09	7.38E-08	5.51E-10	7.39E-09	1.32E-09	1.32E-09	7.27E-10	1.13E-08	2.99E-10	4.00E-09	5.88E-10	5.88E-10	2.91E-10	5.76E-09
445	259516.4	4085474.37	3.57E-09	4.77E-08	8.33E-09	8.33E-09	4.65E-09	7.26E-08	5.42E-10	7.27E-09	1.30E-09	1.30E-09	7.15E-10	1.11E-08	2.94E-10	3.93E-09	5.79E-10	5.79E-10	2.87E-10	5.67E-09
446	259507.72	4085497.44	3.52E-09	4.70E-08	8.22E-09	8.22E-09	4.58E-09	7.16E-08	5.35E-10	7.17E-09	1.28E-09	1.28E-09	7.05E-10	1.10E-08	2.90E-10	3.88E-09	5.71E-10	5.71E-10	2.83E-10	5.59E-09
447	259499.04	4085520.51	3.48E-09	4.65E-08	8.12E-09	8.12E-09	4.52E-09	7.07E-08	5.28E-10	7.08E-09	1.27E-09	1.27E-09	6.97E-10	1.08E-08	2.87E-10	3.83E-09	5.64E-10	5.64E-10	2.79E-10	5.52E-09
448	259490.37	4085543.58	3.44E-09	4.60E-08	8.03E-09	8.03E-09	4.47E-09	6.99E-08	5.22E-10	7.00E-09	1.25E-09	1.25E-09	6.89E-10	1.07E-08	2.84E-10	3.79E-09	5.58E-10	5.58E-10	2.76E-10	5.46E-09
449	259481.69	4085566.65	3.41E-09	4.55E-08	7.95E-09	7.95E-09	4.43E-09	6.92E-08	5.17E-10	6.93E-09	1.24E-09	1.24E-09	6.82E-10	1.06E-08	2.81E-10	3.75E-09	5.52E-10	5.52E-10	2.73E-10	5.41E-09
450	259473.01	4085589.72	3.37E-09	4.51E-08	7.87E-09	7.87E-09	4.39E-09	6.85E-08	5.12E-10	6.86E-09	1.23E-09	1.23E-09	6.75E-10	1.05E-08	2.78E-10	3.71E-09	5.47E-10	5.47E-10	2.71E-10	5.36E-09
451	259464.33	4085612.79	3.34E-09	4.46E-08	7.80E-09	7.80E-09	4.35E-09	6.79E-08	5.07E-10	6.80E-09	1.22E-09	1.22E-09	6.69E-10	1.04E-08	2.75E-10	3.68E-09	5.42E-10	5.42E-10	2.68E-10	5.31E-09
452	259455.66	4085635.86	3.31E-09	4.42E-08	7.73E-09	7.73E-09	4.31E-09	6.73E-08	5.03E-10	6.74E-09	1.21E-09	1.21E-09	6.63E-10	1.03E-08	2.73E-10	3.65E-09	5.37E-10	5.37E-10	2.66E-10	5.26E-09
453	259446.98	4085658.93	3.28E-09	4.38E-08	7.66E-09	7.66E-09	4.27E-09	6.67E-08	4.98E-10	6.68E-09	1.20E-09	1.20E-09	6.57E-10	1.02E-08	2.70E-10	3.61E-09	5.32E-10	5.32E-10	2.63E-10	5.21E-09
454	259438.3	4085682	3.25E-09	4.34E-08	7.59E-09	7.59E-09	4.23E-09	6.61E-08	4.94E-10	6.62E-09	1.18E-09	1.18E-09	6.51E-10	1.01E-08	2.68E-10	3.58E-09	5.27E-10	5.27E-10	2.61E-10	5.16E-09
455	259429.63	4085705.07	3.22E-09	4.30E-08	7.52E-09	7.52E-09	4.19E-09	6.55E-08	4.89E-10	6.56E-09	1.17E-09	1.17E-09	6.45E-10	1.00E-08	2.66E-10	3.55E-09	5.22E-10	5.22E-10	2.58E-10	5.12E-09
456	259420.95	4085728.14	3.19E-09	4.26E-08	7.44E-09	7.44E-09	4.15E-09	6.48E-08	4.84E-10	6.49E-09	1.16E-09	1.16E-09	6.39E-10	9.93E-09	2.63E-10	3.51E-09	5.17E-10	5.17E-10	2.56E-10	5.06E-09
457	259412.27	4085751.21	3.15E-09	4.21E-08	7.36E-09	7.36E-09	4.10E-09	6.41E-08	4.79E-10	6.42E-09	1.15E-09	1.15E-09	6.32E-10	9.83E-09	2.60E-10	3.47E-09	5.11E-10	5.11E-10	2.53E-10	5.01E-09
458	259403.6	4085774.28	3.12E-09	4.16E-08	7.27E-09	7.27E-09	4.05E-09	6.33E-08	4.73E-10	6.34E-09	1.14E-09	1.14E-09	6.24E-10	9.71E-09	2.57E-10	3.43E-09	5.05E-10	5.05E-10	2.50E-10	4.95E-09
459	259394.92	4085797.35	3.08E-09	4.11E-08	7.18E-09	7.18E-09	4.00E-09	6.25E-08	4.67E-10	6.26E-09	1.12E-09	1.12E-09	6.16E-10	9.58E-09	2.54E-10	3.39E-09	4.98E-10	4.98E-10	2.47E-10	4.88E-09
460	259386.24	4085820.42	3.03E-09	4.05E-08	7.07E-09	7.07E-09	3.94E-09	6.16E-08	4.60E-10	6.17E-09	1.10E-09	1.10E-09	6.07E-10	9.45E-09	2.50E-10	3.34E-09	4.91E-10	4.91E-10	2.43E-10	4.81E-09
461	259377.56	4085843.49	2.99E-09	3.99E-08	6.97E-09	6.97E-09	3.88E-09	6.07E-08	4.53E-10	6.08E-09	1.09E-09	1.09E-09	5.98E-10	9.30E-09	2.46E-10	3.29E-09	4.84E-10	4.84E-10	2.40E-10	4.74E-09
462	259368.89	4085866.56	2.94E-09	3.93E-08	6.86E-09	6.86E-09	3.83E-09	5.98E-08	4.46E-10	5.98E-09	1.07E-09	1.07E-09	5.89E-10	9.16E-09	2.42E-10	3.24E-09	4.77E-10	4.77E-10	2.36E-10	4.67E-09
463	259360.21	4085889.63	2.90E-09	3.87E-08	6.76E-09	6.76E-09	3.77E-09	5.89E-08	4.40E-10	5.90E-09	1.06E-09	1.06E-09	5.80E-10	9.03E-09	2.39E-10	3.19E-09	4.70E-10	4.70E-10	2.32E-10	4.60E-09
464	259351.53	4085912.7	2.86E-09	3.82E-08	6.67E-09	6.67E-09	3.72E-09	5.81E-08	4.34E-10	5.81E-09	1.04E-09	1.04E-09	5.72E-10	8.90E-09	2.36E-10	3.15E-09	4.63E-10	4.63E-10	2.29E-10	4.54E-09
465	259342.86	4085935.77	2.82E-09	3.77E-08	6.58E-09	6.58E-09	3.67E-09	5.73E-08	4.28E-10	5.74E-09	1.03E-09	1.03E-09	5.65E-10	8.78E-09	2.32E-10	3.10E-09	4.57E-10	4.57E-10	2.26E-10	4.48E-09
466	259334.18	4085958.84	2.79E-09	3.72E-08	6.50E-09	6.50E-09	3.63E-09	5.67E-08	4.23E-10	5.67E-09	1.02E-09	1.02E-09	5.58E-10	8.69E-09	2.30E-10	3.07E-09	4.52E-10	4.52E-10	2.24E-10	4.43E-09
467	259325.5	4085981.91	2.76E-09	3.69E-08	6.44E-09	6.44E-09	3.59E-09	5.61E-08	4.19E-10	5.62E-09	1.01E-09	1.01E-09	5.53E-10	8.60E-09	2.28E-10	3.04E-09	4.47E-10	4.47E-10	2.21E-10	4.38E-09
468	259294.45	4086015.33	2.76E-09	3.69E-08	6.45E-09	6.45E-09	3.60E-09	5.62E-08	4.20E-10	5.62E-09	1.01E-09	1.01E-09	5.54E-10	8.61E-09	2.28E-10	3.04E-09	4.48E-10	4.48E-10	2.22E-10	4.39E-09
469	259272.08	4086025.68	2.79E-09	3.73E-08	6.52E-09	6.52E-09	3.63E-09	5.68E-08	4.24E-10	5.68E-09	1.02E-09	1.02E-09	5.59E-10	8.70E-09	2.30E-10	3.08E-09	4.53E-10	4.53E-10	2.24E-10	4.44E-09
470	259249.71	4086036.02	2.82E-09	3.77E-08	6.58E-09	6.58E-09	3.67E-09	5.74E-08	4.28E-10	5.74E-09	1.03E-09	1.03E-09	5.65E-10	8.79E-09	2.33E-10	3.11E-09	4.57E-10	4.57E-10	2.26E-10	4.48E-09
471	259227.34	4086046.37	2.85E-09	3.81E-08	6.66E-09	6.66E-09	3.71E-09	5.80E-08	4.33E-10	5.81E-09	1.04E-09	1.04E-09	5.71E-10	8.89E-09	2.35E-10	3.14E-09	4.62E-10	4.62E-10	2.29E-10	4.53E-09
472	259204.97	4086056.71	2.88E-09	3.85E-08	6.73E-09	6.73E-09	3.75E-09	5.86E-08	4.37E-10	5.87E-09	1.05E-09	1.05E-09	5.77E-10	8.98E-09	2.38E-10	3.17E-09	4.67E-10	4.67E-10	2.31E-10	4.58E-09
473	259182.6	4086067.06	2.91E-09	3.89E-08	6.79E-09	6.79E-09	3.79E-09	5.92E-08	4.42E-10	5.93E-09	1.06E-09	1.06E-09	5.83E-10	9.07E-09	2.40E-10	3.21E-09	4.72E-10	4.72E-10	2.34E-10	4.62E-09
474	259160.23	4086077.41	2.94E-09	3.93E-08	6.86E-09	6.86E-09	3.83E-09	5.98E-08	4.46E-10	5.98E-09	1.07E-09	1.07E-09	5.89E-10	9.16E-09	2.42E-10	3.24E-09	4.77E-10	4.77E-10	2.36E-10	4.67E-09
475	259137.86	4086087.75	2.98E-09	3.97E-08	6.94E-09	6.94E-09	3.87E-09	6.05E-08	4.52E-10	6.05E-09	1.08E-09	1.08E-09	5.96E-10	9.27E-09	2.45E-10	3.28E-09	4.82E-10	4.82E-10	2.39E-10	4.72E-09
476	259115.49	4086098.1	3.01E-09	4.02E-08	7.03E-09	7.03E-09	3.92E-09	6.12E-08	4.57E-10	6.13E-09	1.10E-09	1.10E-09	6.03E-10	9.38E-09	2.48E-10	3.32E-09	4.88E-10	4.88E-10	2.42E-10	4.78E-09
477	259093.11	4086108.45	3.05E-09	4.07E-08	7.12E-09	7.12E-09	3.97E-09	6.20E-08	4.63E-10	6.21E-09	1.11E-09	1.11E-09	6.11E-10	9.50E-09	2.51E-10	3.36E-09	4.94E-10	4.94E-10	2.45E-10	4.84E-09
478	259070.74	4086118.79	3.09E-09	4.13E-08	7.21E-09	7.21E-09	4.02E-09	6.28E-08	4.69E-10	6.29E-09	1.13E-09	1.13E-09	6.19E-10	9.63E-09	2.55E-10	3.40E-09	5.01E-10	5.01E-10	2.48E-10	4.91E-09
479	259048.37	4086129.14	3.14E-09	4.19E-08	7.32E-09	7.32E-09	4.08E-09	6.38E-08	4.76E-10	6.39E-09	1.14E-09	1.14E-09	6.29E-10	9.78E-09	2.59E-10	3.46E-09	5.09E-10	5.09E-10	2.52E-10	4.99E-09
480	259026	4086139.49	3.19E-09	4.26E-08	7.45E-09	7.45E-09	4.15E-09	6.49E-08	4.84E-10	6.50E-09	1.16E-09	1.16E-09	6.39E-10	9.95E-09	2.63E-10	3.51E-09	5.17E-10	5.17E-10	2.56E-10	5.07E-09
481	259003.63	4086149.83	3.25E-09	4.34E-08	7.59E-09	7.59E-09	4.23E-09	6.61E-08	4.94E-10	6.62E-09	1.18E-09	1.18E-09	6.51E-10	1.01E-08	2.68E-10	3.58E-09	5.27E-10	5.27E-10	2.61E-10	5.16E-09
482	258981.26	4086160.18	3.32E-09	4.43E-08	7.75E-09	7.75E-09	4.32E-09	6.75E-08	5.04E-10	6.76E-09	1.21E-09	1.21E-09	6.65E-10	1.03E-08	2.74E-10	3.66E-09	5.38E-10	5.38E-10	2.66E-10	5.27E-09
483	258958.89	4086170.52	3.39E-09	4.53E-08	7.92E-09	7.92E-09	4.42E-09	6.90E-08	5.15E-10	6.91E-09	1.24E-09	1.24E-09	6.80E-10	1.06E-08	2.80E-10	3.74E-09	5.50E-10	5.50E-10	2.72E-10	5.39E-09
484	258936.52	4086180.87	3.47E-09	4.64E-08	8.10E-09	8.10E-09	4.52E-09	7.06E-08	5.27E-10	7.07E-09	1.27E-09	1.27E-09	6.96E-10	1.08E-08	2.86E-10	3.82E-09	5.63E-10	5.63E-10	2.79E-10	5.51E-09
485	258914.15	4086191.22	3.55E-09	4.75E-08	8.29E-09	8.29E-09	4.62E-09	7.22E-08	5.39E-10	7.23E-09	1.29E-09	1.29E-09	7.12E-10	1.11E-08	2.93E-10	3.91E-09	5.76E-10	5.76E-10	2.85E-10	5.64E-09
486	258891.77	4086201.56	3.63E-09	4.85E-08	8.47E-09	8.47E-09	4.72E-09	7.38E-08	5.51E-10	7.39E-09	1.32E-09	1.32E-09	7.27E-10	1.13E-08	2.99E-10	4.00E-09	5.89E-10	5.89E-10	2.91E-10	5.77E-09
487	258869.4	4086211.91	3.71E-09	4.95E-08	8.65E-09	8.65E-09	4.82E-09	7.53E-08	5.62E-10	7.54E-09	1.35E-09	1.35E-09	7.42E-10	1.15E-08	3.05E-10	4.08E-09	6.01E-10	6.01E-10	2.97E-10	5.88E-09
488	258847.03	4086222.26	3.77E-09	5.04E-08	8.80E-09	8.80E-09	4.90E-09	7.66E-08	5.72E-10	7.67E-09	1.37E-09	1.37E-09	7.55E-10	1.17E-08	3.11E-10	4.15E-09	6.11E-10	6.11E-10	3.02E-10	5.99E-09

489	258824.66	4086232.6	3.83E-09	5.11E-08	8.93E-09	8.93E-09	4.98E-09	7.78E-08	5.81E-10	7.79E-09	1.39E-09	1.39E-09	7.66E-10	1.19E-08	3.15E-10	4.21E-09	6.20E-10	6.20E-10	3.07E-10	6.08E-09
490	258802.29	4086242.95	3.87E-09	5.17E-08	9.03E-09	9.03E-09	5.04E-09	7.87E-08	5.88E-10	7.88E-09	1.41E-09	1.41E-09	7.75E-10	1.21E-08	3.19E-10	4.26E-09	6.28E-10	6.28E-10	3.11E-10	6.15E-09
491	258779.92	4086253.3	3.91E-09	5.22E-08	9.12E-09	9.12E-09	5.09E-09	7.95E-08	5.93E-10	7.96E-09	1.42E-09	1.42E-09	7.83E-10	1.22E-08	3.22E-10	4.31E-09	6.34E-10	6.34E-10	3.14E-10	6.21E-09
492	258757.55	4086263.64	3.94E-09	5.26E-08	9.19E-09	9.19E-09	5.12E-09	8.01E-08	5.98E-10	8.02E-09	1.44E-09	1.44E-09	7.89E-10	1.23E-08	3.25E-10	4.34E-09	6.38E-10	6.38E-10	3.16E-10	6.26E-09
493	258735.18	4086273.99	3.97E-09	5.30E-08	9.25E-09	9.25E-09	5.16E-09	8.06E-08	6.02E-10	8.07E-09	1.45E-09	1.45E-09	7.94E-10	1.24E-08	3.27E-10	4.37E-09	6.43E-10	6.43E-10	3.18E-10	6.30E-09
494	258712.81	4086284.33	3.99E-09	5.33E-08	9.31E-09	9.31E-09	5.19E-09	8.11E-08	6.06E-10	8.12E-09	1.45E-09	1.45E-09	7.99E-10	1.24E-08	3.29E-10	4.39E-09	6.47E-10	6.47E-10	3.20E-10	6.34E-09
495	258690.43	4086294.68	4.01E-09	5.36E-08	9.37E-09	9.37E-09	5.22E-09	8.16E-08	6.09E-10	8.17E-09	1.46E-09	1.46E-09	8.04E-10	1.25E-08	3.31E-10	4.42E-09	6.51E-10	6.51E-10	3.22E-10	6.37E-09
496	258668.06	4086305.03	4.04E-09	5.40E-08	9.43E-09	9.43E-09	5.26E-09	8.21E-08	6.13E-10	8.22E-09	1.47E-09	1.47E-09	8.09E-10	1.26E-08	3.33E-10	4.45E-09	6.55E-10	6.55E-10	3.24E-10	6.42E-09
497	258645.69	4086315.37	4.07E-09	5.44E-08	9.50E-09	9.50E-09	5.29E-09	8.27E-08	6.18E-10	8.28E-09	1.48E-09	1.48E-09	8.15E-10	1.27E-08	3.36E-10	4.48E-09	6.60E-10	6.60E-10	3.27E-10	6.46E-09
498	258623.32	4086325.72	4.11E-09	5.48E-08	9.58E-09	9.58E-09	5.34E-09	8.34E-08	6.23E-10	8.35E-09	1.50E-09	1.50E-09	8.22E-10	1.28E-08	3.38E-10	4.52E-09	6.65E-10	6.65E-10	3.29E-10	6.52E-09
499	258600.95	4086336.07	4.14E-09	5.53E-08	9.67E-09	9.67E-09	5.39E-09	8.42E-08	6.29E-10	8.43E-09	1.51E-09	1.51E-09	8.30E-10	1.29E-08	3.42E-10	4.56E-09	6.72E-10	6.72E-10	3.32E-10	6.58E-09
500	258578.58	4086346.41	4.19E-09	5.59E-08	9.77E-09	9.77E-09	5.45E-09	8.51E-08	6.35E-10	8.52E-09	1.53E-09	1.53E-09	8.39E-10	1.30E-08	3.45E-10	4.61E-09	6.79E-10	6.79E-10	3.36E-10	6.65E-09
501	258556.21	4086356.76	4.23E-09	5.65E-08	9.88E-09	9.88E-09	5.51E-09	8.60E-08	6.42E-10	8.61E-09	1.54E-09	1.54E-09	8.48E-10	1.32E-08	3.49E-10	4.66E-09	6.86E-10	6.86E-10	3.40E-10	6.72E-09
502	258533.84	4086367.11	4.28E-09	5.72E-08	9.99E-09	9.99E-09	5.57E-09	8.70E-08	6.50E-10	8.71E-09	1.56E-09	1.56E-09	8.58E-10	1.33E-08	3.53E-10	4.71E-09	6.94E-10	6.94E-10	3.44E-10	6.80E-09
503	258511.47	4086377.45	4.33E-09	5.79E-08	1.01E-08	1.01E-08	5.64E-09	8.81E-08	6.58E-10	8.82E-09	1.58E-09	1.58E-09	8.68E-10	1.35E-08	3.57E-10	4.77E-09	7.02E-10	7.02E-10	3.48E-10	6.88E-09
504	258489.09	4086387.8	4.39E-09	5.86E-08	1.02E-08	1.02E-08	5.70E-09	8.91E-08	6.66E-10	8.92E-09	1.60E-09	1.60E-09	8.78E-10	1.37E-08	3.62E-10	4.83E-09	7.11E-10	7.11E-10	3.52E-10	6.96E-09
505	258466.72	4086398.14	4.44E-09	5.93E-08	1.04E-08	1.04E-08	5.78E-09	9.03E-08	6.74E-10	9.04E-09	1.62E-09	1.62E-09	8.89E-10	1.38E-08	3.66E-10	4.89E-09	7.20E-10	7.20E-10	3.56E-10	7.05E-09
506	258444.35	4086408.49	4.49E-09	6.00E-08	1.05E-08	1.05E-08	5.84E-09	9.13E-08	6.82E-10	9.14E-09	1.64E-09	1.64E-09	9.00E-10	1.40E-08	3.70E-10	4.95E-09	7.28E-10	7.28E-10	3.60E-10	7.13E-09
507	259663.91	4085082.19	4.47E-09	5.97E-08	1.04E-08	1.04E-08	5.81E-09	9.08E-08	6.78E-10	9.10E-09	1.63E-09	1.63E-09	8.95E-10	1.39E-08	3.68E-10	4.92E-09	7.24E-10	7.24E-10	3.59E-10	7.10E-09
508	259663.18	4085057.43	4.54E-09	6.06E-08	1.06E-08	1.06E-08	5.90E-09	9.22E-08	6.89E-10	9.23E-09	1.65E-09	1.65E-09	9.09E-10	1.41E-08	3.74E-10	5.00E-09	7.35E-10	7.35E-10	3.64E-10	7.20E-09
509	259662.46	4085032.67	4.62E-09	6.17E-08	1.08E-08	1.08E-08	6.01E-09	9.39E-08	7.01E-10	9.40E-09	1.68E-09	1.68E-09	9.25E-10	1.44E-08	3.81E-10	5.09E-09	7.49E-10	7.49E-10	3.71E-10	7.34E-09
510	259661.74	4085007.92	4.72E-09	6.31E-08	1.10E-08	1.10E-08	6.14E-09	9.60E-08	7.17E-10	9.61E-09	1.72E-09	1.72E-09	9.46E-10	1.47E-08	3.89E-10	5.20E-09	7.65E-10	7.65E-10	3.79E-10	7.50E-09
511	259661.02	4084983.16	4.85E-09	6.47E-08	1.13E-08	1.13E-08	6.30E-09	9.85E-08	7.35E-10	9.86E-09	1.76E-09	1.76E-09	9.70E-10	1.51E-08	3.99E-10	5.33E-09	7.85E-10	7.85E-10	3.89E-10	7.69E-09
512	259660.29	4084958.4	4.99E-09	6.66E-08	1.16E-08	1.16E-08	6.49E-09	1.01E-07	7.57E-10	1.02E-08	1.82E-09	1.82E-09	9.99E-10	1.55E-08	4.11E-10	5.49E-09	8.09E-10	8.09E-10	4.00E-10	7.92E-09
513	259659.57	4084933.65	5.15E-09	6.88E-08	1.20E-08	1.20E-08	6.70E-09	1.05E-07	7.81E-10	1.05E-08	1.88E-09	1.88E-09	1.03E-09	1.60E-08	4.24E-10	5.67E-09	8.34E-10	8.34E-10	4.13E-10	8.17E-09
514	259658.85	4084908.89	5.31E-09	7.09E-08	1.24E-08	1.24E-08	6.91E-09	1.08E-07	8.06E-10	1.08E-08	1.93E-09	1.93E-09	1.06E-09	1.65E-08	4.38E-10	5.85E-09	8.61E-10	8.61E-10	4.26E-10	8.43E-09
515	259658.13	4084884.14	5.48E-09	7.31E-08	1.28E-08	1.28E-08	7.12E-09	1.11E-07	8.31E-10	1.11E-08	1.99E-09	1.99E-09	1.10E-09	1.71E-08	4.51E-10	6.03E-09	8.87E-10	8.87E-10	4.39E-10	8.69E-09
516	259855.12	4085099.5	3.73E-09	4.98E-08	8.69E-09	8.69E-09	4.85E-09	7.57E-08	5.66E-10	7.58E-09	1.36E-09	1.36E-09	7.46E-10	1.16E-08	3.07E-10	4.10E-09	6.04E-10	6.04E-10	2.99E-10	5.92E-09
517	259846.41	4085122.65	3.72E-09	4.97E-08	8.69E-09	8.69E-09	4.84E-09	7.57E-08	5.65E-10	7.58E-09	1.36E-09	1.36E-09	7.46E-10	1.16E-08	3.07E-10	4.10E-09	6.04E-10	6.04E-10	2.99E-10	5.91E-09
518	259837.7	4085145.79	3.72E-09	4.97E-08	8.69E-09	8.69E-09	4.84E-09	7.57E-08	5.65E-10	7.58E-09	1.36E-09	1.36E-09	7.46E-10	1.16E-08	3.07E-10	4.10E-09	6.04E-10	6.04E-10	2.99E-10	5.91E-09
519	259829	4085168.94	3.72E-09	4.97E-08	8.68E-09	8.68E-09	4.84E-09	7.56E-08	5.64E-10	7.57E-09	1.35E-09	1.35E-09	7.45E-10	1.16E-08	3.07E-10	4.09E-09	6.03E-10	6.03E-10	2.98E-10	5.91E-09
520	259820.29	4085192.09	3.71E-09	4.96E-08	8.66E-09	8.66E-09	4.83E-09	7.54E-08	5.63E-10	7.55E-09	1.35E-09	1.35E-09	7.43E-10	1.16E-08	3.06E-10	4.09E-09	6.02E-10	6.02E-10	2.98E-10	5.89E-09
521	259811.59	4085215.23	3.70E-09	4.94E-08	8.62E-09	8.62E-09	4.81E-09	7.51E-08	5.61E-10	7.52E-09	1.35E-09	1.35E-09	7.40E-10	1.15E-08	3.05E-10	4.07E-09	5.99E-10	5.99E-10	2.96E-10	5.87E-09
522	259802.88	4085238.38	3.67E-09	4.90E-08	8.56E-09	8.56E-09	4.77E-09	7.45E-08	5.57E-10	7.46E-09	1.34E-09	1.34E-09	7.35E-10	1.14E-08	3.02E-10	4.04E-09	5.94E-10	5.94E-10	2.94E-10	5.82E-09
523	259794.17	4085261.53	3.63E-09	4.85E-08	8.47E-09	8.47E-09	4.72E-09	7.38E-08	5.51E-10	7.39E-09	1.32E-09	1.32E-09	7.27E-10	1.13E-08	2.99E-10	4.00E-09	5.88E-10	5.88E-10	2.91E-10	5.76E-09
524	259785.47	4085284.68	3.58E-09	4.78E-08	8.35E-09	8.35E-09	4.66E-09	7.28E-08	5.43E-10	7.29E-09	1.30E-09	1.30E-09	7.17E-10	1.12E-08	2.95E-10	3.94E-09	5.80E-10	5.80E-10	2.87E-10	5.69E-09
525	259776.76	4085307.82	3.52E-09	4.71E-08	8.22E-09	8.22E-09	4.58E-09	7.16E-08	5.35E-10	7.17E-09	1.28E-09	1.28E-09	7.06E-10	1.10E-08	2.90E-10	3.88E-09	5.71E-10	5.71E-10	2.83E-10	5.60E-09
526	259768.05	4085330.97	3.46E-09	4.63E-08	8.08E-09	8.08E-09	4.51E-09	7.04E-08	5.26E-10	7.05E-09	1.26E-09	1.26E-09	6.94E-10	1.08E-08	2.86E-10	3.81E-09	5.61E-10	5.61E-10	2.78E-10	5.50E-09
527	259759.35	4085354.12	3.40E-09	4.54E-08	7.93E-09	7.93E-09	4.42E-09	6.91E-08	5.16E-10	6.92E-09	1.24E-09	1.24E-09	6.81E-10	1.06E-08	2.80E-10	3.74E-09	5.51E-10	5.51E-10	2.73E-10	5.40E-09
528	259750.64	4085377.26	3.34E-09	4.46E-08	7.79E-09	7.79E-09	4.34E-09	6.78E-08	5.07E-10	6.79E-09	1.22E-09	1.22E-09	6.69E-10	1.04E-08	2.75E-10	3.68E-09	5.41E-10	5.41E-10	2.68E-10	5.30E-09
529	259741.94	4085400.41	3.28E-09	4.38E-08	7.64E-09	7.64E-09	4.26E-09	6.66E-08	4.97E-10	6.67E-09	1.19E-09	1.19E-09	6.56E-10	1.02E-08	2.70E-10	3.61E-09	5.31E-10	5.31E-10	2.63E-10	5.20E-09
530	259733.23	4085423.56	3.22E-09	4.30E-08	7.50E-09	7.50E-09	4.18E-09	6.54E-08	4.88E-10	6.54E-09	1.17E-09	1.17E-09	6.44E-10	1.00E-08	2.65E-10	3.54E-09	5.21E-10	5.21E-10	2.58E-10	5.11E-09
531	259724.52	4085446.71	3.16E-09	4.22E-08	7.37E-09	7.37E-09	4.11E-09	6.42E-08	4.80E-10	6.43E-09	1.15E-09	1.15E-09	6.33E-10	9.84E-09	2.60E-10	3.48E-09	5.12E-10	5.12E-10	2.53E-10	5.02E-09
532	259715.82	4085469.85	3.11E-09	4.15E-08	7.25E-09	7.25E-09	4.04E-09	6.31E-08	4.72E-10	6.32E-09	1.13E-09	1.13E-09	6.22E-10	9.68E-09	2.56E-10	3.42E-09	5.04E-10	5.04E-10	2.49E-10	4.93E-09
533	259707.11	4085493	3.06E-09	4.08E-08	7.13E-09	7.13E-09	3.98E-09	6.21E-08	4.64E-10	6.22E-09	1.11E-09	1.11E-09	6.12E-10	9.53E-09	2.52E-10	3.37E-09	4.96E-10	4.96E-10	2.45E-10	4.85E-09
534	259698.41	4085516.15	3.01E-09	4.03E-08	7.03E-09	7.03E-09	3.92E-09	6.13E-08	4.57E-10	6.13E-09	1.10E-09	1.10E-09	6.04E-10	9.39E-09	2.48E-10	3.32E-09	4.88E-10	4.88E-10	2.42E-10	4.79E-09
535	259689.7	4085539.29	2.97E-09	3.97E-08	6.93E-09	6.93E-09	3.87E-09	6.04E-08	4.51E-10	6.05E-09	1.08E-09	1.08E-09	5.95E-10	9.26E-09	2.45E-10	3.27E-09	4.82E-10	4.82E-10	2.38E-10	4.72E-09
536	259680.99	4085562.44	2.94E-09	3.93E-08	6.86E-09	6.86E-09	3.83E-09	5.98E-08	4.46E-10	5.98E-09	1.07E-09	1.07E-09	5.89E-10	9.16E-09	2.42E-10	3.24E-09	4.77E-10	4.77E-10	2.36E-10	4.67E-09
537	259672.29	4085585.59	2.91E-09	3.88E-08	6.78E-09	6.78E-09	3.78E-09	5.91E-08	4.41E-10	5.92E-09	1.06E-09	1.06E-09	5.82E-10	9.06E-09	2.40E-10	3.20E-09	4.71E-10	4.71E-10	2.33E-10	4.62E-09
538	259663.58	4085608.73	2.88E-09	3.85E-08	6.72E-09	6.72E-09	3.75E-09	5.85E-08	4.37E-10	5.86E-09	1.05E-09	1.05E-09	5.77E-10	8.98E-09	2.37E-10	3.17E-09	4.67E-10	4.67E-10	2.31E-10	4.57E-09
539	259654.88	4085631.88	2.86E-09	3.82E-08	6.67E-09	6.67E-09	3.72E-09	5.81E-08	4.34E-10	5.81E-09	1.04E-09	1.04E-09	5.72E-10	8.90E-09	2.36E-10	3.15E-09	4.63E-10	4.63E-10	2.29E-10	4.54E-09
540	259646.17	4085655.03	2.84E-09	3.79E-08	6.62E-09	6.62E-09	3.69E-09	5.77E-08	4.31E-10	5.77E-09	1.03E-09	1.03E-09	5.68E-10	8.84E-09	2.34E-10	3.12E-09	4.60E-10	4.60E-10	2.28E-10	4.50E-09
541	259637.46	4085678.18	2.82E-09	3.76E-08	6.57E-09	6.57E-09	3.66E-09	5.73E-08	4.28E-10	5.73E-09	1.03E-09	1.03E-09	5.64E-10	8.78E-09	2.32E-10	3.10E-09	4.57E-10	4.57E-10	2.26E-10	4.47E-09
542	259628.76	4085701.32	2.80E-09	3.74E-08	6.53E-09	6.53E-09	3.64E-09	5.68E-08	4.24E-10	5.69E-09	1.02E-09	1.02E-09	5.60E-10	8.71E-09	2.31E-10	3.08E-09	4.53E-10	4.53E-10	2.24E-10	4.44E-09
543	259620.05	4085724.47	2.78E-09	3.71E-08	6.48E-09	6.48E-09	3.61E-09	5.64E-08	4.21E-10	5.65E-09	1.01E-09	1.01E-09	5.56E-10	8.65E-09	2.29E-10	3.06E-09	4.50E-10	4.50E-10	2.23E-10	4.41E-09
544	259611.35	4085747.62	2.75E-09	3.68E-08	6.42E-09	6.42E-09	3.58E-09	5.59E-08	4.18E-10	5.60E-09	1.00E-09	1.00E-09	5.51E-10	8.57E-09	2.27E-10	3.03E-09	4.46E-10	4.46E-10	2.21E-10	4.37E-09
545	259602.64	4085770.76	2.73E-09	3.65E-08	6.38E-09	6.38E-09	3.56E-09	5.55E-08	4.15E-10	5.56E-09	9.96E-10	9.96E-10	5.47E-10	8.52E-09	2.25E-10	3.01E-09	4.43E-10	4.43E-10	2.19E-10	4.34E-09
546	259593.93	4085793.91	2.71E-09	3.62E-08	6.33E-09	6.33E-09	3.53E-09	5.51E-08	4.12E-10	5.52E-09	9.88E-10	9.88E-10	5.43E-10	8.45E-09	2.24E-10	2.99E-09	4.40E-10	4.40E-10	2.18E-10	4.31E-09
547	259585.23	4085817.06	2.69E-09	3.59E-08	6.28E-09	6.28E-09	3.50E-09	5.47E-08	4.08E-10	5.48E-09	9.80E-10	9.80E-10	5.39E-10	8.38E-09	2.22E-10	2.96E-09	4.36E-10	4.36E-10	2.16E-10	4.27E-09
548	259576.52	4085840.21	2.67E-09	3.57E-08	6.23E-09	6.23E-09	3.47E-09	5.43E-08	4.05E-10	5.43E-09	9.72E-10	9.72E-10	5.35E-10	8.32E-09	2.20E-10	2.94E-09	4.33E-10	4.33E-10	2.14E-10	4.24E-09
549	259567.82	4085863.35	2.64E-09	3.53E-08	6.17E-09	6.17E-09	3.44E-09	5.37E-08	4.01E-10	5.38E-09	9.63E-10	9.63E-10	5.29E-10	8.24E-09	2.18E-10	2.91E-09	4.29E-10	4.29E-10	2.12E-10	4.20E-09
550	259559.11	4085886.5	2.61E-09	3.49E-08	6.10E-09	6.10E-09	3.40E-09	5.31E-08	3.97E-10	5.32E-09	9.52E-10	9.52E-10	5.24E-10	8.15E-09	2.16E-10	2.88E-09	4.24E-10	4.24E-10	2.10E-10	4.15E-09
551	259550.4	4085909.65	2.58E-09	3.45E-08	6.03E-09	6.03E-09	3.36E-09	5.25E-08	3.92E-10	5.26E-09	9.41E-10	9.41E-10	5.17E-10	8.05E-09	2.13E-10	2.84E-09	4.19E-10	4.19E-10	2.07E-10	4.10E-09
552	259541.7	4085932.79	2.55E-09	3.41E-08	5.95E-09	5.95E-09	3.32E-09	5.18E-08	3.87E-10	5.19E-09	9.29E-10	9.29E-10	5.11E-10	7.95E-09	2.10E-10	2.81E-09	4.13E-10	4.13E-10	2.05E-10	4.05E-09
553	259532.99	4085955.94	2.52E-09	3.36E-08	5.87E-09	5.87E-09	3.27E-09	5.11E-08	3.82E-10	5.12E-09	9.17E-10	9.17E-10	5.04E-10	7.84E-09	2.07E-10	2.77E-09	4.08E-10	4.08E-10	2.02E-10	4.00E-09
554	259524.29	4085979.09	2.48E-09	3.32E-08	5.79E-09	5.79E-09	3.23E-09	5.04E-08	3.77E-10	5.05E-09	9.04E-10	9.04E-10	4.97E-10	7.73E-09	2.05E-10	2.73E-09	4.02E-10	4.02E-10	1.99E-10	3.94E-09
555	259515.58	4086002.24	2.45E-09	3.27E-08	5.71E-09	5.71E-09	3.19E-09	4.98E-08	3.72E-10	4.98E-09	8.92E-10	8.92E-10	4.90E-10	7.63E-09	2.02E-10	2.70E-09	3.97E-10	3.97E-10	1.96E-10	3.89E-09
556	259506.87	4086025.38	2.42E-09	3.23E-08	5.64E-09	5.64E-09	3.15E-09	4.91E-08	3.67E-10	4.92E-09	8.81E-10	8.81E-10	4.84E-10	7.53E-09	1.99E-10	2.66E-09	3.92E-10	3.92E-10	1.94E-10	3.84E-09
557	259498.17	4086048.53	2.39E-09	3.19E-08	5.57E-09	5.57E-09	3.11E-09	4.86E-08	3.63E-10	4.86E-09	8.70E-10	8.70E-10	4.78E-10	7.44E-09	1.97E-10	2.63E-09	3.87E-10	3.87E-10	1.92E-10	3.79E-09
558	259489.46	4086071.68	2.37E-09	3.16E-08	5.52E-09	5.52E-09	3.08E-09	4.81E-08	3.59E-10	4.81E-09	8.62E-10	8.62E-10	4.74E-10	7.37E-09	1.95E-10	2.60E-09	3.83E-10	3.83E-10	1.90E-10	3.76E-09
559	259480.75	4086094.82	2.34E-09	3.13E-08	5.47E-09	5.47E-09	3.05E-09	4.76E-08	3.56E-10	4.77E-09	8.54E-10	8.54E-10	4.69E-10	7.30E-09	1.93E-10	2.58E-09	3.80E-10	3.80E-10	1.88E-10	3.72E-09
560	259472.05	4086117.97	2.32E-09	3.10E-08	5.42E-09	5.42E-09	3.02E-09	4.72E-08	3.53E-10	4.73E-09	8.46E-10	8.46E-10	4.65E-10	7.24E-09	1.91E-10	2.56E-09	3.77E-10	3.77E-10	1.86E-10	3.69E-09
561	259440.9	4086151.5	2.33E-09	3.11E-08	5.42E-09	5.42E-09	3.02E-09	4.73E-08	3.53E-10	4.73E-09	8.47E-10	8.47E-10	4.66E-10	7.24E-09	1.92E-10	2.56E-09	3.77E-10	3.77E-10	1.87E-10	3.69E-09
562	259418.45	4086161.88	2.35E-09	3.13E-08	5.48E-09	5.48E-09	3.05E-09	4.77E-08	3.56E-10	4.78E-09	8.55E-10	8.55E-10	4.70E-10	7.31E-09	1.93E-10	2.58E-09	3.80E-10	3.80E-10	1.88E-10	3.73E-09
563	259396.01	4086172.26	2.37E-09	3.17E-08	5.53E-09	5.53E-09	3.08E-09	4.82E-08	3.60E-10	4.82E-09	8.64E-10	8.64E-10	4.75E-10	7.39E-09	1.95E-10	2.61E-09	3.84E-10	3.84E-10	1.90E-10	3.76E-09
564	259373.56	4086182.64	2.39E-09	3.20E-08	5.59E-09	5.59E-09	3.11E-09	4.87E-08	3.63E-10	4.87E-09	8.72E-10	8.72E-10	4.79E-10	7.46E-09	1.97E-10	2.64E-09	3.88E-10	3.88E-10	1.92E-10	3.80E-09
565	259351.11	4086193.02	2.42E-09	3.23E-08	5.65E-09	5.65E-09	3.15E-09	4.92E-08	3.67E-10	4.92E-09	8.81E-10	8.81E-10	4.85E-10	7.54E-09	1.99E-10	2.66E-09	3.92E-10	3.92E-10	1.94E-10	3.84E-09
566	259328.67	4086203.4	2.44E-09	3.26E-08	5.70E-09	5.70E-09	3.18E-09	4.97E-08	3.71E-10	4.97E-09	8.90E-10	8.90E-10	4.89E-10	7.61E-09	2.01E-10	2.69E-09	3.96E-10	3.96E-10	1.96E-10	3.88E-09
567	259306.22	4086213.78	2.47E-09	3.30E-08	5.76E-09	5.76E-09	3.21E-09	5.02E-08	3.75E-10	5.02E-09	8.99E-10	8.99E-10	4.94E-10	7.69E-09	2.04E-10	2.72E-09	4.00E-10	4.00E-10	1.98E-10	3.92E-09
568	259283.78	4086224.17	2.49E-09	3.33E-08	5.82E-09	5.82E-09	3.24E-09	5.07E-08	3.79E-10	5.08E-09	9.09E-10	9.09E-10	5.00E-10	7.77E-09	2.06E-10	2.75E-09	4.04E-10	4.04E-10	2.00E-10	3.96E-09
569	259261.33	4086234.55	2.52E-09	3.37E-08	5.88E-09	5.88E-09	3.28E-09	5.13E-08	3.83E-10	5.13E-09	9.19E-10	9.19E-10	5.05E-10	7.86E-09	2.08E-10	2.78E-09	4.09E-10	4.09E-10	2.02E-10	4.00E-09
570	259238.88	4086244.93	2.55E-09	3.41E-08	5.95E-09	5.95E-09	3.32E-09	5.18E-08	3.87E-10	5.19E-09	9.29E-10	9.29E-10	5.11E-10	7.95E-09	2.10E-10	2.81E-09	4.13E-10	4.13E-10	2.05E-10	4.05E-09
571	259216.44	4086255.31	2.58E-09	3.45E-08	6.02E-09	6.02E-09	3.36E-09	5.25E-08	3.92E-10	5.25E-09	9.41E-10	9.41E-10	5.17E-10	8.04E-09	2.13E-10	2.84E-09	4.18E-10	4.18E-10	2.07E-10	4.10E-09
572	259193.99	4086265.69	2.61E-09	3.49E-08	6.10E-09	6.10E-09	3.40E-09	5.31E-08	3.97E-10	5.32E-09	9.52E-10	9.52E-10	5.24E-10	8.15E-09	2.16E-10	2.88E-09	4.24E-10	4.24E-10	2.10E-10	4.15E-09
573	259171.55	4086276.07	2.65E-09	3.54E-08	6.19E-09	6.19E-09	3.45E-09	5.39E-08	4.02E-10	5.39E-09	9.66E-10	9.66E-10	5.31E-10	8.26E-09	2.19E-10	2.92E-09	4.30E-10	4.30E-10	2.13E-10	4.21E-09
574	259149.1	4086286.45	2.69E-09	3.59E-08	6.28E-09	6.28E-09	3.50E-09	5.47E-08	4.08E-10	5.48E-09	9.80E-10	9.80E-10	5.39E-10	8.38E-09	2.22E-10	2.96E-09	4.36E-10	4.36E-10	2.16E-10	4.27E-09
575	259126.65	4086296.83	2.74E-09	3.65E-08	6.38E-09	6.38E-09	3.56E-09	5.56E-08	4.15E-10	5.57E-09	9.96E-10	9.96E-10	5.48E-10	8.52E-09	2.25E-10	3.01E-09	4.43E-10	4.43E-10	2.19E-10	4.34E-09
576	259104.21	4086307.21	2.78E-09	3.72E-08	6.50E-09	6.50E-09	3.62E-09	5.66E-08	4.23E-10	5.67E-09	1.01E-09	1.01E-09	5.58E-10	8.67E-09	2.29E-10	3.07E-09	4.51E-10	4.51E-10	2.23E-10	4.42E-09
577	259081.76	4086317.59	2.84E-09	3.79E-08	6.62E-09	6.62E-09	3.69E-09	5.77E-08	4.31E-10	5.78E-09	1.03E-09	1.03E-09	5.69E-10	8.84E-09	2.34E-10	3.13E-09	4.60E-10	4.60E-10	2.28E-10	4.51E-09
578	259059.32	4086327.97	2.90E-09	3.87E-08	6.76E-09	6.76E-09	3.77E-09	5.89E-08	4.40E-10	5.90E-09	1.06E-09	1.06E-09	5.80E-10	9.03E-09	2.39E-10	3.19E-09	4.70E-10	4.70E-10	2.32E-10	4.60E-09
579	259036.87	4086338.36	2.96E-09	3.95E-08	6.90E-09	6.90E-09	3.85E-09	6.01E-08	4.49E-10	6.02E-09	1.08E-09	1.08E-09	5.93E-10	9.22E-09	2.44E-10	3.26E-09	4.80E-10	4.80E-10	2.37E-10	4.70E-09
580	259014.42	4086348.74	3.02E-09	4.04E-08	7.05E-09	7.05E-09	3.93E-09	6.14E-08	4.59E-10	6.15E-09	1.10E-09	1.10E-09	6.05E-10	9.42E-09	2.49E-10	3.33E-09	4.90E-10	4.90E-10	2.43E-10	4.80E-09
581	258991.98	4086359.12	3.09E-09	4.12E-08	7.20E-09	7.20E-09	4.01E-09	6.27E-08	4.68E-10	6.28E-09	1.12E-09	1.12E-09	6.18E-10	9.62E-09	2.54E-10	3.40E-09	5.00E-10	5.00E-10	2.48E-10	4.90E-09
582	258969.53	4086369.5	3.15E-09	4.20E-08	7.34E-09	7.34E-09	4.09E-09	6.40E-08	4.78E-10	6.40E-09	1.15E-09	1.15E-09	6.30E-10	9.80E-09	2.59E-10	3.46E-09	5.10E-10	5.10E-10	2.52E-10	5.00E-09
583	258947.09	4086379.88	3.20E-09	4.28E-08	7.47E-09	7.47E-09	4.17E-09	6.51E-08	4.86E-10	6.52E-09	1.17E-09	1.17E-09	6.42E-10	9.98E-09	2.64E-10	3.53E-09	5.19E-10	5.19E-10	2.57E-10	5.09E-09
584	258924.64	4086390.26	3.25E-09	4.34E-08	7.58E-09	7.58E-09	4.23E-09	6.61E-08	4.93E-10	6.61E-09	1.18E-09	1.18E-09	6.51E-10	1.01E-08	2.68E-10	3.58E-09	5.27E-10	5.27E-10	2.61E-10	5.16E-09
585	258902.19	4086400.64	3.29E-09	4.40E-08	7.68E-09	7.68E-09	4.28E-09	6.69E-08	4.99E-10	6.70E-09	1.20E-09	1.20E-09	6.59E-10	1.03E-08	2.71E-10	3.62E-09	5.33E-10	5.33E-10	2.64E-10	5.23E-09
586	258879.75	4086411.02	3.32E-09	4.44E-08	7.75E-09	7.75E-09	4.32E-09	6.75E-08	5.04E-10	6.76E-09	1.21E-09	1.21E-09	6.66E-10	1.04E-08	2.74E-10	3.66E-09	5.39E-10	5.39E-10	2.67E-10	5.28E-09
587	258857.3	4086421.4	3.35E-09	4.47E-08	7.81E-09	7.81E-09	4.36E-09	6.81E-08	5.08E-10	6.82E-09	1.22E-09	1.22E-09	6.71E-10	1.04E-08	2.76E-10	3.69E-09	5.43E-10	5.43E-10	2.69E-10	5.32E-09
588	258834.86	4086431.78	3.37E-09	4.50E-08	7.86E-09	7.86E-09	4.38E-09	6.85E-08	5.11E-10	6.86E-09	1.23E-09	1.23E-09	6.75E-10	1.05E-08	2.78E-10	3.71E-09	5.46E-10	5.46E-10	2.70E-10	5.35E-09
589	258812.41	4086442.16	3.39E-09	4.52E-08	7.90E-09	7.90E-09	4.41E-09	6.88E-08	5.14E-10	6.89E-09	1.23E-09	1.23E-09	6.78E-10	1.06E-08	2.79E-10	3.73E-09	5.49E-10	5.49E-10	2.72E-10	5.38E-09
590	258789.97	4086452.55	3.40E-09	4.54E-08	7.94E-09	7.94E-09	4.42E-09	6.91E-08	5.16E-10	6.92E-09	1.24E-09	1.24E-09	6.81E-10	1.06E-08	2.80E-10	3.75E-09	5.51E-10	5.51E-10	2.73E-10	5.40E-09
591	258767.52	4086462.93	3.42E-09	4.57E-08	7.98E-09	7.98E-09	4.45E-09	6.95E-08	5.19E-10	6.96E-09	1.25E-09	1.25E-09	6.85E-10	1.06E-08	2.82E-10	3.76E-09	5.54E-10	5.54E-10	2.74E-10	5.43E-09
592	258745.07	4086473.31	3.43E-09	4.59E-08	8.01E-09	8.01E-09	4.47E-09	6.98E-08	5.21E-10	6.99E-09	1.25E-09	1.25E-09	6.88E-10	1.07E-08	2.83E-10	3.78E-09	5.57E-10	5.57E-10	2.76E-10	5.45E-09
593	258722.63	4086483.69	3.45E-09	4.61E-08	8.06E-09	8.06E-09	4.49E-09	7.02E-08	5.24E-10	7.03E-09	1.26E-09	1.26E-09	6.92E-10	1.08E-08	2.85E-10	3.80E-09	5.60E-10	5.60E-10	2.77E-10	5.48E-09
594	258700.18	4086494.07	3.47E-09	4.64E-08	8.10E-09	8.10E-09	4.52E-09	7.06E-08	5.27E-10	7.07E-09	1.27E-09	1.27E-09	6.96E-10	1.08E-08	2.86E-10	3.82E-09	5.63E-10	5.63E-10	2.79E-10	5.51E-09
595	258677.74	4086504.45	3.50E-09	4.67E-08	8.16E-09	8.16E-09	4.55E-09	7.11E-08	5.31E-10	7.12E-09	1.27E-09	1.27E-09	7.00E-10	1.09E-08	2.88E-10	3.85E-09	5.67E-10	5.67E-10	2.81E-10	5.55E-09
596	258655.29	4086514.83	3.52E-09	4.71E-08	8.22E-09	8.22E-09	4.58E-09	7.16E-08	5.35E-10	7.17E-09	1.28E-09	1.28E-09	7.06E-10	1.10E-08	2.90E-10	3.88E-09	5.71E-10	5.71E-10	2.83E-10	5.60E-09
597	258632.84	4086525.21	3.55E-09	4.75E-08	8.29E-09	8.29E-09	4.62E-09	7.22E-08	5.39E-10	7.23E-09	1.29E-09	1.29E-09	7.12E-10	1.11E-08	2.93E-10	3.91E-09	5.76E-10	5.76E-10	2.85E-10	5.64E-09
598	258610.4	4086535.59	3.58E-09	4.79E-08	8.36E-09	8.36E-09	4.66E-09	7.28E-08	5.44E-10	7.29E-09	1.31E-09	1.31E-09	7.18E-10	1.12E-08	2.95E-10	3.95E-09	5.81E-10	5.81E-10	2.88E-10	5.69E-09
599	258587.95	4086545.97	3.62E-09	4.83E-08	8.44E-09	8.44E-09	4.71E-09	7.35E-08	5.49E-10	7.36E-09	1.32E-09	1.32E-09	7.25E-10	1.13E-08	2.98E-10	3.98E-09	5.86E-10	5.86E-10	2.90E-10	5.75E-09
600	258565.51	4086556.36	3.66E-09	4.88E-08	8.53E-09	8.53E-09	4.75E-09	7.43E-08	5.55E-10	7.44E-09	1.33E-09	1.33E-09	7.32E-10	1.14E-08	3.01E-10	4.02E-09	5.92E-10	5.92E-10	2.93E-10	5.80E-09
601	258543.06	4086566.74	3.69E-09	4.93E-08	8.62E-09	8.62E-09	4.80E-09	7.51E-08	5.61E-10	7.52E-09	1.35E-09	1.35E-09	7.40E-10	1.15E-08	3.04E-10	4.07E-09	5.99E-10	5.99E-10	2.96E-10	5.86E-09
602	258520.61	4086577.12	3.73E-09	4.98E-08	8.71E-09	8.71E-09	4.85E-09	7.58E-08	5.66E-10	7.59E-09	1.36E-09	1.36E-09	7.47E-10	1.16E-08	3.08E-10	4.11E-09	6.05E-10	6.05E-10	2.99E-10	5.93E-09
603	258498.17	4086587.5	3.77E-09	5.04E-08	8.80E-09	8.80E-09	4.90E-09	7.66E-08	5.72E-10	7.67E-09	1.37E-09	1.37E-09	7.55E-10	1.17E-08	3.11E-10	4.15E-09	6.11E-10	6.11E-10	3.02E-10	5.99E-09
604	258475.72	4086597.88	3.81E-09	5.08E-08	8.88E-09	8.88E-09	4.95E-09	7.74E-08	5.78E-10	7.75E-09	1.39E-09	1.39E-09	7.62E-10	1.19E-08	3.14E-10	4.19E-09	6.17E-10	6.17E-10	3.05E-10	6.04E-09
605	258453.28	4086608.26	3.84E-09	5.13E-08	8.96E-09	8.96E-09	5.00E-09	7.81E-08	5.83E-10	7.82E-09	1.40E-09	1.40E-09	7.69E-10	1.20E-08	3.17E-10	4.23E-09	6.23E-10	6.23E-10	3.08E-10	6.10E-09
606	259863.82	4085076.35	3.73E-09	4.98E-08	8.71E-09	8.71E-09	4.85E-09	7.58E-08	5.66E-10	7.59E-09	1.36E-09	1.36E-09	7.47E-10	1.16E-08	3.08E-10	4.11E-09	6.05E-10	6.05E-10	2.99E-10	5.93E-09
607	259863.1	4085051.6	3.78E-09	5.05E-08	8.81E-09	8.81E-09	4.91E-09	7.68E-08	5.73E-10	7.69E-09	1.38E-09	1.38E-09	7.56E-10	1.18E-08	3.11E-10	4.16E-09	6.12E-10	6.12E-10	3.03E-10	6.00E-09
608	259862.38	4085026.84	3.84E-09	5.12E-08	8.95E-09	8.95E-09	4.99E-09	7.80E-08	5.82E-10	7.81E-09	1.40E-09	1.40E-09	7.68E-10	1.19E-08	3.16E-10	4.22E-09	6.22E-10	6.22E-10	3.08E-10	6.09E-09
609	259861.65	4085002.08	3.91E-09	5.23E-08	9.13E-09	9.13E-09	5.09E-09	7.95E-08	5.94E-10	7.96E-09	1.43E-09	1.43E-09	7.83E-10	1.22E-08	3.22E-10	4.31E-09	6.34E-10	6.34E-10	3.14E-10	6.21E-09
610	259860.93	4084977.33	4.01E-09	5.35E-08	9.34E-09	9.34E-09	5.21E-09	8.14E-08	6.08E-10	8.15E-09	1.46E-09	1.46E-09	8.02E-10	1.25E-08	3.30E-10	4.41E-09	6.49E-10	6.49E-10	3.21E-10	6.36E-09
611	259860.21	4084952.57	4.11E-09	5.49E-08	9.59E-09	9.59E-09	5.35E-09	8.35E-08	6.24E-10	8.36E-09	1.50E-09	1.50E-09	8.23E-10	1.28E-08	3.39E-10	4.53E-09	6.66E-10	6.66E-10	3.30E-10	6.53E-09

612	259859.49	4084927.81	4.23E-09	5.65E-08	9.87E-09	9.87E-09	5.50E-09	8.60E-08	6.42E-10	8.61E-09	1.54E-09	1.54E-09	8.47E-10	1.32E-08	3.49E-10	4.66E-09	6.85E-10	6.85E-10	3.39E-10	6.72E-09
613	259858.76	4084903.06	4.35E-09	5.82E-08	1.02E-08	1.02E-08	5.66E-09	8.85E-08	6.61E-10	8.86E-09	1.59E-09	1.59E-09	8.72E-10	1.36E-08	3.59E-10	4.79E-09	7.06E-10	7.06E-10	3.49E-10	6.91E-09
614	259858.04	4084878.3	4.48E-09	5.98E-08	1.05E-08	1.05E-08	5.83E-09	9.11E-08	6.80E-10	9.12E-09	1.63E-09	1.63E-09	8.97E-10	1.40E-08	3.69E-10	4.93E-09	7.26E-10	7.26E-10	3.59E-10	7.11E-09
615	258357.65	4084897.08	4.35E-07	5.81E-06	1.01E-06	1.01E-06	5.65E-07	8.83E-06	6.60E-08	8.84E-07	1.58E-07	1.58E-07	8.70E-08	1.35E-06	3.58E-08	4.79E-07	7.04E-08	7.04E-08	3.49E-08	6.90E-07
616	258333.32	4084898.08	4.55E-07	6.08E-06	1.06E-06	1.06E-06	5.92E-07	9.25E-06	6.91E-08	9.26E-07	1.66E-07	1.66E-07	9.11E-08	1.42E-06	3.75E-08	5.01E-07	7.37E-08	7.37E-08	3.65E-08	7.22E-07
617	258308.99	4084899.08	4.66E-07	6.22E-06	1.09E-06	1.09E-06	6.06E-07	9.46E-06	7.07E-08	9.47E-07	1.70E-07	1.70E-07	9.32E-08	1.45E-06	3.84E-08	5.13E-07	7.55E-08	7.55E-08	3.73E-08	7.39E-07
618	258284.66	4084900.08	4.72E-07	6.31E-06	1.10E-06	1.10E-06	6.15E-07	9.60E-06	7.17E-08	9.61E-07	1.72E-07	1.72E-07	9.46E-08	1.47E-06	3.89E-08	5.20E-07	7.66E-08	7.66E-08	3.79E-08	7.50E-07
619	258260.33	4084901.08	4.77E-07	6.38E-06	1.11E-06	1.11E-06	6.21E-07	9.70E-06	7.24E-08	9.71E-07	1.74E-07	1.74E-07	9.56E-08	1.49E-06	3.93E-08	5.26E-07	7.74E-08	7.74E-08	3.83E-08	7.58E-07
620	258235.99	4084902.08	4.81E-07	6.42E-06	1.12E-06	1.12E-06	6.25E-07	9.77E-06	7.30E-08	9.78E-07	1.75E-07	1.75E-07	9.63E-08	1.50E-06	3.96E-08	5.29E-07	7.79E-08	7.79E-08	3.86E-08	7.63E-07
621	258211.66	4084903.08	4.83E-07	6.45E-06	1.13E-06	1.13E-06	6.28E-07	9.81E-06	7.33E-08	9.82E-07	1.76E-07	1.76E-07	9.67E-08	1.50E-06	3.98E-08	5.32E-07	7.82E-08	7.82E-08	3.87E-08	7.67E-07
622	258187.33	4084904.08	4.84E-07	6.46E-06	1.13E-06	1.13E-06	6.29E-07	9.83E-06	7.34E-08	9.84E-07	1.76E-07	1.76E-07	9.69E-08	1.51E-06	3.99E-08	5.33E-07	7.84E-08	7.84E-08	3.88E-08	7.68E-07
623	258163	4084905.08	4.84E-07	6.46E-06	1.13E-06	1.13E-06	6.29E-07	9.83E-06	7.34E-08	9.85E-07	1.76E-07	1.76E-07	9.69E-08	1.51E-06	3.99E-08	5.33E-07	7.84E-08	7.84E-08	3.88E-08	7.68E-07
624	258138.67	4084906.08	4.84E-07	6.46E-06	1.13E-06	1.13E-06	6.29E-07	9.83E-06	7.34E-08	9.84E-07	1.76E-07	1.76E-07	9.68E-08	1.51E-06	3.99E-08	5.32E-07	7.84E-08	7.84E-08	3.88E-08	7.68E-07
625	258114.33	4084907.08	4.83E-07	6.45E-06	1.13E-06	1.13E-06	6.28E-07	9.81E-06	7.33E-08	9.82E-07	1.76E-07	1.76E-07	9.67E-08	1.50E-06	3.98E-08	5.32E-07	7.82E-08	7.82E-08	3.87E-08	7.67E-07
626	258090	4084908.08	4.82E-07	6.43E-06	1.12E-06	1.12E-06	6.26E-07	9.79E-06	7.31E-08	9.80E-07	1.75E-07	1.75E-07	9.65E-08	1.50E-06	3.97E-08	5.30E-07	7.81E-08	7.81E-08	3.86E-08	7.65E-07
627	258065.67	4084909.08	4.80E-07	6.41E-06	1.12E-06	1.12E-06	6.24E-07	9.76E-06	7.28E-08	9.77E-07	1.75E-07	1.75E-07	9.61E-08	1.50E-06	3.96E-08	5.28E-07	7.78E-08	7.78E-08	3.85E-08	7.62E-07
628	258041.34	4084910.09	4.78E-07	6.38E-06	1.12E-06	1.12E-06	6.22E-07	9.71E-06	7.25E-08	9.73E-07	1.74E-07	1.74E-07	9.57E-08	1.49E-06	3.94E-08	5.26E-07	7.75E-08	7.75E-08	3.83E-08	7.59E-07
629	258017.01	4084911.09	4.75E-07	6.35E-06	1.11E-06	1.11E-06	6.18E-07	9.66E-06	7.22E-08	9.68E-07	1.73E-07	1.73E-07	9.52E-08	1.48E-06	3.92E-08	5.24E-07	7.71E-08	7.71E-08	3.81E-08	7.55E-07
630	257992.68	4084912.09	4.73E-07	6.31E-06	1.10E-06	1.10E-06	6.15E-07	9.60E-06	7.17E-08	9.62E-07	1.72E-07	1.72E-07	9.46E-08	1.47E-06	3.90E-08	5.20E-07	7.66E-08	7.66E-08	3.79E-08	7.50E-07
631	257968.34	4084913.09	4.69E-07	6.26E-06	1.09E-06	1.09E-06	6.10E-07	9.53E-06	7.12E-08	9.54E-07	1.71E-07	1.71E-07	9.39E-08	1.46E-06	3.87E-08	5.16E-07	7.60E-08	7.60E-08	3.76E-08	7.45E-07
632	257944.01	4084914.09	4.65E-07	6.21E-06	1.08E-06	1.08E-06	6.04E-07	9.44E-06	7.05E-08	9.46E-07	1.69E-07	1.69E-07	9.31E-08	1.45E-06	3.83E-08	5.12E-07	7.53E-08	7.53E-08	3.73E-08	7.38E-07
633	257919.68	4084915.09	4.60E-07	6.14E-06	1.07E-06	1.07E-06	5.98E-07	9.34E-06	6.98E-08	9.35E-07	1.67E-07	1.67E-07	9.20E-08	1.43E-06	3.79E-08	5.06E-07	7.45E-08	7.45E-08	3.69E-08	7.30E-07
634	257895.35	4084916.09	4.54E-07	6.06E-06	1.06E-06	1.06E-06	5.90E-07	9.22E-06	6.88E-08	9.23E-07	1.65E-07	1.65E-07	9.08E-08	1.41E-06	3.74E-08	4.99E-07	7.35E-08	7.35E-08	3.64E-08	7.20E-07
635	257871.02	4084917.09	4.46E-07	5.96E-06	1.04E-06	1.04E-06	5.80E-07	9.07E-06	6.77E-08	9.08E-07	1.63E-07	1.63E-07	8.94E-08	1.39E-06	3.68E-08	4.91E-07	7.23E-08	7.23E-08	3.58E-08	7.08E-07
636	257846.68	4084918.09	4.37E-07	5.84E-06	1.02E-06	1.02E-06	5.69E-07	8.89E-06	6.64E-08	8.90E-07	1.59E-07	1.59E-07	8.76E-08	1.36E-06	3.60E-08	4.82E-07	7.09E-08	7.09E-08	3.51E-08	6.94E-07
637	257822.35	4084919.09	4.27E-07	5.70E-06	9.96E-07	9.96E-07	5.55E-07	8.68E-06	6.48E-08	8.69E-07	1.55E-07	1.55E-07	8.55E-08	1.33E-06	3.52E-08	4.70E-07	6.92E-08	6.92E-08	3.42E-08	6.78E-07
638	257798.02	4084920.09	4.14E-07	5.53E-06	9.66E-07	9.66E-07	5.39E-07	8.42E-06	6.28E-08	8.43E-07	1.51E-07	1.51E-07	8.29E-08	1.29E-06	3.41E-08	4.56E-07	6.71E-08	6.71E-08	3.32E-08	6.57E-07
639	257773.69	4084921.09	3.99E-07	5.33E-06	9.30E-07	9.30E-07	5.19E-07	8.10E-06	6.05E-08	8.11E-07	1.45E-07	1.45E-07	7.98E-08	1.24E-06	3.29E-08	4.39E-07	6.46E-08	6.46E-08	3.20E-08	6.33E-07
640	257749.36	4084922.09	3.80E-07	5.08E-06	8.87E-07	8.87E-07	4.95E-07	7.73E-06	5.77E-08	7.74E-07	1.38E-07	1.38E-07	7.61E-08	1.18E-06	3.13E-08	4.19E-07	6.16E-08	6.16E-08	3.05E-08	6.04E-07
641	257725.03	4084923.09	3.58E-07	4.78E-06	8.35E-07	8.35E-07	4.65E-07	7.27E-06	5.43E-08	7.28E-07	1.30E-07	1.30E-07	7.17E-08	1.11E-06	2.95E-08	3.94E-07	5.80E-08	5.80E-08	2.87E-08	5.68E-07
642	257700.69	4084924.09	3.31E-07	4.42E-06	7.71E-07	7.71E-07	4.30E-07	6.72E-06	5.02E-08	6.73E-07	1.20E-07	1.20E-07	6.62E-08	1.03E-06	2.72E-08	3.64E-07	5.36E-08	5.36E-08	2.65E-08	5.25E-07
643	257676.36	4084925.09	2.97E-07	3.97E-06	6.93E-07	6.93E-07	3.87E-07	6.04E-06	4.51E-08	6.05E-07	1.08E-07	1.08E-07	5.95E-08	9.26E-07	2.45E-08	3.27E-07	4.82E-08	4.82E-08	2.38E-08	4.72E-07
644	257652.03	4084926.09	2.56E-07	3.42E-06	5.98E-07	5.98E-07	3.33E-07	5.21E-06	3.89E-08	5.21E-07	9.33E-08	9.33E-08	5.13E-08	7.98E-07	2.11E-08	2.82E-07	4.15E-08	4.15E-08	2.06E-08	4.07E-07
645	257627.7	4084927.09	2.06E-07	2.75E-06	4.80E-07	4.80E-07	2.68E-07	4.19E-06	3.13E-08	4.19E-07	7.50E-08	7.50E-08	4.12E-08	6.42E-07	1.70E-08	2.27E-07	3.34E-08	3.34E-08	1.65E-08	3.27E-07
646	257603.37	4084928.09	1.47E-07	1.97E-06	3.44E-07	3.44E-07	1.92E-07	2.99E-06	2.23E-08	3.00E-07	5.36E-08	5.36E-08	2.95E-08	4.59E-07	1.21E-08	1.62E-07	2.39E-08	2.39E-08	1.18E-08	2.34E-07
647	257579.03	4084929.09	9.20E-08	1.23E-06	2.15E-07	2.15E-07	1.20E-07	1.87E-06	1.40E-08	1.87E-07	3.35E-08	3.35E-08	1.84E-08	2.87E-07	7.59E-09	1.01E-07	1.49E-08	1.49E-08	7.38E-09	1.46E-07
648	257554.7	4084930.09	6.22E-08	8.31E-07	1.45E-07	1.45E-07	8.09E-08	1.26E-06	9.44E-09	1.27E-07	2.27E-08	2.27E-08	1.25E-08	1.94E-07	5.13E-09	6.85E-08	1.01E-08	1.01E-08	4.99E-09	9.88E-08
649	258374.7	4084878.79	3.23E-07	4.31E-06	7.53E-07	7.53E-07	4.20E-07	6.56E-06	4.90E-08	6.57E-07	1.18E-07	1.18E-07	6.46E-08	1.01E-06	2.66E-08	3.55E-07	5.23E-08	5.23E-08	2.59E-08	5.12E-07
650	258332.29	4084873.1	3.16E-07	4.22E-06	7.38E-07	7.38E-07	4.11E-07	6.43E-06	4.80E-08	6.44E-07	1.15E-07	1.15E-07	6.33E-08	9.85E-07	2.61E-08	3.48E-07	5.13E-08	5.13E-08	2.54E-08	5.02E-07
651	258307.96	4084874.1	3.22E-07	4.30E-06	7.50E-07	7.50E-07	4.18E-07	6.54E-06	4.88E-08	6.54E-07	1.17E-07	1.17E-07	6.44E-08	1.00E-06	2.65E-08	3.54E-07	5.21E-08	5.21E-08	2.58E-08	5.11E-07
652	258283.63	4084875.1	3.25E-07	4.34E-06	7.59E-07	7.59E-07	4.23E-07	6.61E-06	4.94E-08	6.62E-07	1.18E-07	1.18E-07	6.51E-08	1.01E-06	2.68E-08	3.58E-07	5.27E-08	5.27E-08	2.61E-08	5.16E-07
653	258259.3	4084876.1	3.28E-07	4.38E-06	7.65E-07	7.65E-07	4.26E-07	6.66E-06	4.97E-08	6.67E-07	1.19E-07	1.19E-07	6.56E-08	1.02E-06	2.70E-08	3.61E-07	5.31E-08	5.31E-08	2.63E-08	5.20E-07
654	258234.97	4084877.1	3.29E-07	4.40E-06	7.69E-07	7.69E-07	4.29E-07	6.70E-06	5.00E-08	6.70E-07	1.20E-07	1.20E-07	6.60E-08	1.03E-06	2.72E-08	3.63E-07	5.34E-08	5.34E-08	2.64E-08	5.23E-07
655	258210.64	4084878.1	3.31E-07	4.42E-06	7.71E-07	7.71E-07	4.30E-07	6.72E-06	5.02E-08	6.73E-07	1.20E-07	1.20E-07	6.62E-08	1.03E-06	2.72E-08	3.64E-07	5.36E-08	5.36E-08	2.65E-08	5.25E-07
656	258186.3	4084879.1	3.31E-07	4.42E-06	7.72E-07	7.72E-07	4.31E-07	6.73E-06	5.03E-08	6.74E-07	1.21E-07	1.21E-07	6.63E-08	1.03E-06	2.73E-08	3.65E-07	5.37E-08	5.37E-08	2.66E-08	5.26E-07
657	258161.97	4084880.1	3.31E-07	4.42E-06	7.73E-07	7.73E-07	4.31E-07	6.73E-06	5.03E-08	6.74E-07	1.21E-07	1.21E-07	6.63E-08	1.03E-06	2.73E-08	3.65E-07	5.37E-08	5.37E-08	2.66E-08	5.26E-07
658	258137.64	4084881.1	3.31E-07	4.42E-06	7.72E-07	7.72E-07	4.30E-07	6.72E-06	5.02E-08	6.73E-07	1.21E-07	1.21E-07	6.63E-08	1.03E-06	2.73E-08	3.64E-07	5.36E-08	5.36E-08	2.65E-08	5.25E-07
659	258113.31	4084882.11	3.30E-07	4.41E-06	7.70E-07	7.70E-07	4.29E-07	6.71E-06	5.01E-08	6.72E-07	1.20E-07	1.20E-07	6.61E-08	1.03E-06	2.72E-08	3.63E-07	5.35E-08	5.35E-08	2.65E-08	5.24E-07
660	258088.98	4084883.11	3.29E-07	4.39E-06	7.67E-07	7.67E-07	4.28E-07	6.69E-06	4.99E-08	6.69E-07	1.20E-07	1.20E-07	6.59E-08	1.02E-06	2.71E-08	3.62E-07	5.33E-08	5.33E-08	2.64E-08	5.22E-07
661	258064.64	4084884.11	3.27E-07	4.37E-06	7.64E-07	7.64E-07	4.26E-07	6.65E-06	4.97E-08	6.66E-07	1.19E-07	1.19E-07	6.56E-08	1.02E-06	2.70E-08	3.60E-07	5.30E-08	5.30E-08	2.63E-08	5.20E-07
662	258040.31	4084885.11	3.25E-07	4.34E-06	7.59E-07	7.59E-07	4.23E-07	6.61E-06	4.94E-08	6.62E-07	1.18E-07	1.18E-07	6.51E-08	1.01E-06	2.68E-08	3.58E-07	5.27E-08	5.27E-08	2.61E-08	5.16E-07
663	258015.98	4084886.11	3.23E-07	4.31E-06	7.53E-07	7.53E-07	4.20E-07	6.56E-06	4.90E-08	6.56E-07	1.18E-07	1.18E-07	6.46E-08	1.01E-06	2.66E-08	3.55E-07	5.23E-08	5.23E-08	2.59E-08	5.12E-07
664	257991.65	4084887.11	3.19E-07	4.27E-06	7.45E-07	7.45E-07	4.15E-07	6.49E-06	4.85E-08	6.50E-07	1.16E-07	1.16E-07	6.40E-08	9.95E-07	2.63E-08	3.52E-07	5.18E-08	5.18E-08	2.56E-08	5.07E-07
665	257967.32	4084888.11	3.16E-07	4.21E-06	7.36E-07	7.36E-07	4.10E-07	6.41E-06	4.79E-08	6.42E-07	1.15E-07	1.15E-07	6.32E-08	9.83E-07	2.60E-08	3.47E-07	5.11E-08	5.11E-08	2.53E-08	5.01E-07
666	257942.99	4084889.11	3.11E-07	4.15E-06	7.25E-07	7.25E-07	4.04E-07	6.32E-06	4.72E-08	6.33E-07	1.13E-07	1.13E-07	6.23E-08	9.69E-07	2.56E-08	3.42E-07	5.04E-08	5.04E-08	2.49E-08	4.94E-07
667	257918.65	4084890.11	3.06E-07	4.08E-06	7.13E-07	7.13E-07	3.98E-07	6.21E-06	4.64E-08	6.22E-07	1.11E-07	1.11E-07	6.12E-08	9.52E-07	2.52E-08	3.37E-07	4.95E-08	4.95E-08	2.45E-08	4.85E-07
668	257894.32	4084891.11	2.99E-07	4.00E-06	6.99E-07	6.99E-07	3.89E-07	6.09E-06	4.54E-08	6.09E-07	1.09E-07	1.09E-07	6.00E-08	9.33E-07	2.47E-08	3.30E-07	4.85E-08	4.85E-08	2.40E-08	4.75E-07
669	257869.99	4084892.11	2.92E-07	3.90E-06	6.81E-07	6.81E-07	3.80E-07	5.94E-06	4.43E-08	5.94E-07	1.06E-07	1.06E-07	5.85E-08	9.10E-07	2.41E-08	3.22E-07	4.73E-08	4.73E-08	2.34E-08	4.64E-07
670	257845.66	4084893.11	2.83E-07	3.78E-06	6.61E-07	6.61E-07	3.69E-07	5.76E-06	4.30E-08	5.77E-07	1.03E-07	1.03E-07	5.67E-08	8.83E-07	2.34E-08	3.12E-07	4.59E-08	4.59E-08	2.27E-08	4.50E-07
671	257821.33	4084894.11	2.73E-07	3.65E-06	6.37E-07	6.37E-07	3.55E-07	5.55E-06	4.14E-08	5.56E-07	9.95E-08	9.95E-08	5.47E-08	8.51E-07	2.25E-08	3.01E-07	4.43E-08	4.43E-08	2.19E-08	4.34E-07
672	257796.99	4084895.11	2.61E-07	3.49E-06	6.09E-07	6.09E-07	3.39E-07	5.30E-06	3.96E-08	5.31E-07	9.51E-08	9.51E-08	5.23E-08	8.13E-07	2.15E-08	2.87E-07	4.23E-08	4.23E-08	2.09E-08	4.14E-07
673	257772.66	4084896.11	2.47E-07	3.30E-06	5.76E-07	5.76E-07	3.21E-07	5.02E-06	3.75E-08	5.02E-07	8.99E-08	8.99E-08	4.94E-08	7.69E-07	2.03E-08	2.72E-07	4.00E-08	4.00E-08	1.98E-08	3.92E-07
674	257748.33	4084897.11	2.30E-07	3.07E-06	5.37E-07	5.37E-07	2.99E-07	4.68E-06	3.49E-08	4.68E-07	8.38E-08	8.38E-08	4.61E-08	7.17E-07	1.90E-08	2.53E-07	3.73E-08	3.73E-08	1.85E-08	3.65E-07
675	257724	4084898.11	2.11E-07	2.81E-06	4.92E-07	4.92E-07	2.74E-07	4.28E-06	3.20E-08	4.29E-07	7.68E-08	7.68E-08	4.22E-08	6.56E-07	1.74E-08	2.32E-07	3.41E-08	3.41E-08	1.69E-08	3.35E-07
676	257699.67	4084899.11	1.88E-07	2.51E-06	4.39E-07	4.39E-07	2.45E-07	3.82E-06	2.86E-08	3.83E-07	6.86E-08	6.86E-08	3.77E-08	5.86E-07	1.55E-08	2.07E-07	3.05E-08	3.05E-08	1.51E-08	2.99E-07
677	257675.34	4084900.11	1.62E-07	2.17E-06	3.79E-07	3.79E-07	2.11E-07	3.30E-06	2.47E-08	3.31E-07	5.92E-08	5.92E-08	3.25E-08	5.06E-07	1.34E-08	1.79E-07	2.63E-08	2.63E-08	1.30E-08	2.58E-07
678	257651	4084901.11	1.34E-07	1.79E-06	3.12E-07	3.12E-07	1.74E-07	2.72E-06	2.03E-08	2.72E-07	4.87E-08	4.87E-08	2.68E-08	4.17E-07	1.10E-08	1.47E-07	2.17E-08	2.17E-08	1.07E-08	2.12E-07
679	257626.67	4084902.11	1.04E-07	1.38E-06	2.42E-07	2.42E-07	1.35E-07	2.11E-06	1.57E-08	2.11E-07	3.77E-08	3.77E-08	2.07E-08	3.23E-07	8.54E-09	1.14E-07	1.68E-08	1.68E-08	8.31E-09	1.64E-07
680	257602.34	4084903.11	7.57E-08	1.01E-06	1.77E-07	1.77E-07	9.84E-08	1.54E-06	1.15E-08	1.54E-07	2.76E-08	2.76E-08	1.52E-08	2.36E-07	6.24E-09	8.33E-08	1.23E-08	1.23E-08	6.07E-09	1.20E-07
681	257578.01	4084904.11	5.51E-08	7.35E-07	1.28E-07	1.28E-07	7.16E-08	1.12E-06	8.36E-09	1.12E-07	2.01E-08	2.01E-08	1.10E-08	1.72E-07	4.54E-09	6.06E-08	8.92E-09	8.92E-09	4.42E-09	8.74E-08
682	257553.68	4084905.11	4.29E-08	5.73E-07	1.00E-07	1.00E-07	5.58E-08	8.72E-07	6.51E-09	8.73E-08	1.56E-08	1.56E-08	8.59E-09	1.34E-07	3.54E-09	4.72E-08	6.95E-09	6.95E-09	3.44E-09	6.81E-08
683	258373.67	4084853.81	2.48E-07	3.31E-06	5.78E-07	5.78E-07	3.22E-07	5.03E-06	3.76E-08	5.04E-07	9.02E-08	9.02E-08	4.96E-08	7.72E-07	2.04E-08	2.73E-07	4.01E-08	4.01E-08	1.99E-08	3.93E-07
684	258417.76	4084884.76	2.80E-07	3.74E-06	6.53E-07	6.53E-07	3.64E-07	5.69E-06	4.25E-08	5.70E-07	1.02E-07	1.02E-07	5.61E-08	8.72E-07	2.31E-08	3.08E-07	4.54E-08	4.54E-08	2.25E-08	4.45E-07
685	258331.27	4084848.12	2.41E-07	3.22E-06	5.63E-07	5.63E-07	3.14E-07	4.90E-06	3.66E-08	4.91E-07	8.79E-08	8.79E-08	4.83E-08	7.51E-07	1.99E-08	2.66E-07	3.91E-08	3.91E-08	1.94E-08	3.83E-07
686	258306.94	4084849.12	2.44E-07	3.26E-06	5.70E-07	5.70E-07	3.18E-07	4.97E-06	3.71E-08	4.97E-07	8.90E-08	8.90E-08	4.89E-08	7.61E-07	2.01E-08	2.69E-07	3.96E-08	3.96E-08	1.96E-08	3.88E-07
687	258282.6	4084850.12	2.46E-07	3.29E-06	5.75E-07	5.75E-07	3.21E-07	5.01E-06	3.74E-08	5.01E-07	8.98E-08	8.98E-08	4.93E-08	7.68E-07	2.03E-08	2.71E-07	3.99E-08	3.99E-08	1.98E-08	3.91E-07
688	258258.27	4084851.12	2.48E-07	3.31E-06	5.78E-07	5.78E-07	3.22E-07	5.04E-06	3.76E-08	5.04E-07	9.03E-08	9.03E-08	4.96E-08	7.72E-07	2.04E-08	2.73E-07	4.02E-08	4.02E-08	1.99E-08	3.93E-07
689	258233.94	4084852.12	2.49E-07	3.32E-06	5.80E-07	5.80E-07	3.23E-07	5.05E-06	3.77E-08	5.06E-07	9.06E-08	9.06E-08	4.98E-08	7.75E-07	2.05E-08	2.74E-07	4.03E-08	4.03E-08	1.99E-08	3.95E-07
690	258209.61	4084853.13	2.49E-07	3.33E-06	5.81E-07	5.81E-07	3.24E-07	5.06E-06	3.78E-08	5.07E-07	9.07E-08	9.07E-08	4.99E-08	7.76E-07	2.05E-08	2.74E-07	4.04E-08	4.04E-08	2.00E-08	3.96E-07
691	258185.28	4084854.13	2.49E-07	3.33E-06	5.81E-07	5.81E-07	3.24E-07	5.06E-06	3.78E-08	5.07E-07	9.07E-08	9.07E-08	4.99E-08	7.76E-07	2.05E-08	2.74E-07	4.04E-08	4.04E-08	2.00E-08	3.96E-07
692	258160.94	4084855.13	2.49E-07	3.32E-06	5.80E-07	5.80E-07	3.23E-07	5.05E-06	3.77E-08	5.06E-07	9.06E-08	9.06E-08	4.98E-08	7.75E-07	2.05E-08	2.74E-07	4.03E-08	4.03E-08	2.00E-08	3.95E-07
693	258136.61	4084856.13	2.48E-07	3.31E-06	5.78E-07	5.78E-07	3.22E-07	5.04E-06	3.76E-08	5.05E-07	9.03E-08	9.03E-08	4.97E-08	7.72E-07	2.04E-08	2.73E-07	4.02E-08	4.02E-08	1.99E-08	3.94E-07
694	258112.28	4084857.13	2.47E-07	3.30E-06	5.76E-07	5.76E-07	3.21E-07	5.02E-06	3.75E-08	5.02E-07	8.99E-08	8.99E-08	4.94E-08	7.69E-07	2.03E-08	2.72E-07	4.00E-08	4.00E-08	1.98E-08	3.92E-07
695	258087.95	4084858.13	2.45E-07	3.28E-06	5.72E-07	5.72E-07	3.19E-07	4.99E-06	3.72E-08	4.99E-07	8.94E-08	8.94E-08	4.91E-08	7.64E-07	2.02E-08	2.70E-07	3.98E-08	3.98E-08	1.97E-08	3.90E-07
696	258063.62	4084859.13	2.43E-07	3.25E-06	5.68E-07	5.68E-07	3.17E-07	4.95E-06	3.69E-08	4.95E-07	8.87E-08	8.87E-08	4.88E-08	7.58E-07	2.01E-08	2.68E-07	3.95E-08	3.95E-08	1.95E-08	3.87E-07
697	258039.29	4084860.13	2.41E-07	3.22E-06	5.63E-07	5.63E-07	3.14E-07	4.90E-06	3.66E-08	4.91E-07	8.78E-08	8.78E-08	4.83E-08	7.51E-07	1.99E-08	2.66E-07	3.91E-08	3.91E-08	1.93E-08	3.83E-07
698	258014.95	4084861.13	2.38E-07	3.18E-06	5.56E-07	5.56E-07	3.10E-07	4.84E-06	3.62E-08	4.85E-07	8.68E-08	8.68E-08	4.77E-08	7.43E-07	1.96E-08	2.62E-07	3.86E-08	3.86E-08	1.91E-08	3.78E-07
699	257990.62	4084862.13	2.35E-07	3.14E-06	5.48E-07	5.48E-07	3.06E-07	4.78E-06	3.57E-08	4.78E-07	8.56E-08	8.56E-08	4.71E-08	7.32E-07	1.94E-08	2.59E-07	3.81E-08	3.81E-08	1.89E-08	3.73E-07
700	257966.29	4084863.13	2.31E-07	3.09E-06	5.39E-07	5.39E-07	3.01E-07	4.70E-06	3.51E-08	4.70E-07	8.42E-08	8.42E-08	4.63E-08	7.20E-07	1.90E-08	2.54E-07	3.75E-08	3.75E-08	1.85E-08	3.67E-07
701	257941.96	4084864.13	2.26E-07	3.03E-06	5.28E-07	5.28E-07	2.95E-07	4.60E-06	3.44E-08	4.61E-07	8.25E-08	8.25E-08	4.54E-08	7.06E-07	1.87E-08	2.49E-07	3.67E-08	3.67E-08	1.82E-08	3.60E-07
702	257917.63	4084865.13	2.21E-07	2.95E-06	5.16E-07	5.16E-07	2.88E-07	4.49E-06	3.36E-08	4.50E-07	8.05E-08	8.05E-08	4.43E-08	6.89E-07	1.82E-08	2.43E-07	3.58E-08	3.58E-08	1.77E-08	3.51E-07
703	257893.29	4084866.13	2.15E-07	2.87E-06	5.01E-07	5.01E-07	2.79E-07	4.37E-06	3.26E-08	4.37E-07	7.82E-08	7.82E-08	4.30E-08	6.69E-07	1.77E-08	2.37E-07	3.48E-08	3.48E-08	1.72E-08	3.41E-07
704	257868.96	4084867.13	2.08E-07	2.77E-06	4.84E-07	4.84E-07	2.70E-07	4.22E-06	3.15E-08	4.22E-07	7.56E-08	7.56E-08	4.16E-08	6.47E-07	1.71E-08	2.28E-07	3.36E-08	3.36E-08	1.66E-08	3.30E-07
705	257844.63	4084868.13	1.99E-07	2.66E-06	4.65E-07	4.65E-07	2.59E-07	4.05E-06	3.02E-08	4.05E-07	7.25E-08	7.25E-08	3.99E-08	6.20E-07	1.64E-08	2.19E-07	3.23E-08	3.23E-08	1.60E-08	3.16E-07
706	257820.3	4084869.13	1.89E-07	2.53E-06	4.42E-07	4.42E-07	2.46E-07	3.85E-06	2.87E-08	3.85E-07	6.90E-08	6.90E-08	3.79E-08	5.90E-07	1.56E-08	2.09E-07	3.07E-08	3.07E-08	1.52E-08	3.01E-07
707	257795.97	4084870.13	1.78E-07	2.38E-06	4.16E-07	4.16E-07	2.32E-07	3.62E-06	2.71E-08	3.63E-07	6.49E-08	6.49E-08	3.57E-08	5.55E-07	1.47E-08	1.96E-07	2.89E-08	2.89E-08	1.43E-08	2.83E-07
708	257771.64	4084871.13	1.66E-07	2.21E-06	3.86E-07	3.86E-07	2.15E-07	3.36E-06	2.51E-08	3.37E-07	6.03E-08	6.03E-08	3.32E-08	5.16E-07	1.36E-08	1.82E-07	2.68E-08	2.68E-08	1.33E-08	2.63E-07
709	257747.3	4084872.13	1.51E-07	2.02E-06	3.53E-07	3.53E-07	1.97E-07	3.07E-06	2.29E-08	3.08E-07	5.51E-08	5.51E-08	3.03E-08	4.71E-07	1.25E-08	1.66E-07	2.45E-08	2.45E-08	1.21E-08	2.40E-07
710	257722.97	4084873.13	1.35E-07	1.81E-06	3.15E-07	3.15E-07	1.76E-07	2.75E-06	2.05E-08	2.75E-07	4.93E-08	4.93E-08	2.71E-08	4.21E-07	1.11E-08	1.49E-07	2.19E-08	2.19E-08	1.08E-08	2.15E-07
711	257698.64	4084874.13	1.18E-07	1.57E-06	2.75E-07	2.75E-07	1.53E-07	2.39E-06	1.79E-08	2.40E-07	4.29E-08	4.29E-08	2.36E-08	3.67E-07	9.71E-09	1.30E-07	1.91E-08	1.91E-08	9.45E-09	1.87E-07
712	257674.31	4084875.13	9.92E-08	1.33E-06	2.31E-07	2.31E-07	1.29E-07	2.02E-06	1.51E-08	2.02E-07	3.61E-08	3.61E-08	1.99E-08	3.09E-07	8.18E-09	1.09E-07	1.61E-08	1.61E-08	7.96E-09	1.58E-07
713	257649.98	4084876.13	8.05E-08	1.08E-06	1.88E-07	1.88E-07	1.05E-07	1.64E-06	1.22E-08	1.64E-07	2.93E-08	2.93E-08	1.61E-08	2.51E-07	6.64E-09	8.86E-08	1.30E-08	1.30E-08	6.46E-09	1.28E-07
714	257625.64	4084877.13	6.32E-08	8.44E-07	1.47E-07	1.47E-07	8.22E-08	1.28E-06	9.59E-09	1.29E-07	2.30E-08	2.30E-08	1.27E-08	1.97E-07	5.21E-09	6.96E-08	1.02E-08	1.02E-08	5.07E-09	1.00E-07
715	257601.31	4084878.13	4.91E-08	6.55E-07	1.14E-07	1.14E-07	6.38E-08	9.97E-07	7.44E-09	9.98E-08	1.79E-08	1.79E-08	9.82E-09	1.53E-07	4.04E-09	5.40E-08	7.95E-09	7.95E-09	3.93E-09	7.79E-08
716	257576.98	4084879.13	3.90E-08	5.21E-07	9.11E-08	9.11E-08	5.08E-08	7.93E-07	5.92E-09	7.94E-08	1.42E-08	1.42E-08	7.82E-09	1.22E-07	3.22E-09	4.30E-08	6.33E-09	6.33E-09	3.13E-09	6.20E-08
717	257552.65	4084880.13	3.24E-08	4.33E-07	7.56E-08	7.56E-08	4.21E-08	6.58E-07	4.92E-09	6.59E-08	1.18E-08	1.18E-08	6.49E-09	1.01E-07	2.67E-09	3.57E-08	5.25E-09	5.25E-09	2.60E-09	5.14E-08
718	258372.65	4084828.84	1.99E-07	2.65E-06	4.63E-07	4.63E-07	2.58E-07	4.04E-06	3.01E-08	4.04E-07	7.24E-08	7.24E-08	3.98E-08	6.19E-07	1.64E-08	2.19E-07	3.22E-08	3.22E-08	1.59E-08	3.15E-07
719	258408.79	4084842.22	2.10E-07	2.80E-06	4.89E-07	4.89E-07	2.73E-07	4.26E-06	3.18E-08	4.26E-07	7.63E-08	7.63E-08	4.20E-08	6.53E-07	1.73E-08	2.31E-07	3.40E-08	3.40E-08	1.68E-08	3.33E-07
720	258434.81	4084866.47	2.26E-07	3.02E-06	5.28E-07	5.28E-07	2.94E-07	4.60E-06	3.43E-08	4.60E-07	8.24E-08	8.24E-08	4.53E-08	7.05E-07	1.86E-08	2.49E-07	3.67E-08	3.67E-08	1.81E-08	3.59E-07
721	258330.24	4084823.14	1.93E-07	2.58E-06	4.50E-07	4.50E-07	2.51E-07	3.92E-06	2.93E-08	3.93E-07	7.03E-08	7.03E-08	3.86E-08	6.01E-07	1.59E-08	2.12E-07	3.13E-08	3.13E-08	1.55E-08	3.06E-07
722	258305.91	4084824.15	1.95E-07	2.60E-06	4.54E-07	4.54E-07	2.53E-07	3.96E-06	2.96E-08	3.96E-07	7.10E-08	7.10E-08	3.90E-08	6.07E-07	1.61E-08	2.14E-07	3.16E-08	3.16E-08	1.56E-08	3.09E-07
723	258281.58	4084825.15	1.96E-07	2.62E-06	4.57E-07	4.57E-07	2.55E-07	3.98E-06	2.97E-08	3.99E-07	7.14E-08	7.14E-08	3.92E-08	6.10E-07	1.61E-08	2.16E-07	3.18E-08	3.18E-08	1.57E-08	3.11E-07
724	258257.25	4084826.15	1.97E-07	2.63E-06	4.59E-07	4.59E-07	2.56E-07	4.00E-06	2.98E-08	4.00E-07	7.16E-08	7.16E-08	3.94E-08	6.12E-07	1.62E-08	2.16E-07	3.19E-08	3.19E-08	1.58E-08	3.12E-07
725	258232.91	4084827.15	1.97E-07	2.63E-06	4.59E-07	4.59E-07	2.56E-07	4.00E-06	2.99E-08	4.01E-07	7.17E-08	7.17E-08	3.94E-08	6.13E-07	1.62E-08	2.17E-07	3.19E-08	3.19E-08	1.58E-08	3.13E-07
726	258208.58	4084828.15	1.97E-07	2.63E-06	4.59E-07	4.59E-07	2.56E-07	4.00E-06	2.99E-08	4.01E-07	7.17E-08	7.17E-08	3.94E-08	6.13E-07	1.62E-08	2.17E-07	3.19E-08	3.19E-08	1.58E-08	3.13E-07
727	258184.25	4084829.15	1.97E-07	2.63E-06	4.59E-07	4.59E-07	2.56E-07	3.99E-06	2.98E-08	4.00E-07	7.16E-08	7.16E-08	3.94E-08	6.12E-07	1.62E-08	2.16E-07	3.19E-08	3.19E-08	1.58E-08	3.12E-07
728	258159.92	4084830.15	1.96E-07	2.62E-06	4.57E-07	4.57E-07	2.55E-07	3.98E-06	2.97E-08	3.99E-07	7.13E-08	7.13E-08	3.92E-08	6.10E-07	1.61E-08	2.16E-07	3.17E-08	3.17E-08	1.57E-08	3.11E-07
729	258135.59	4084831.15	1.95E-07	2.60E-06	4.55E-07	4.55E-07	2.53E-07	3.96E-06	2.96E-08	3.96E-07	7.10E-08	7.10E-08	3.90E-08	6.07E-07	1.61E-08	2.15E-07	3.16E-08	3.16E-08	1.56E-08	3.09E-07
730	258111.25	4084832.15	1.93E-07	2.58E-06	4.51E-07	4.51E-07	2.52E-07	3.93E-06	2.94E-08	3.94E-07	7.05E-08	7.05E-08	3.88E-08	6.03E-07	1.59E-08	2.13E-07	3.14E-08	3.14E-08	1.55E-08	3.07E-07
731	258086.92	4084833.15	1.92E-07	2.56E-06	4.47E-07	4.47E-07	2.49E-07	3.90E-06	2.91E-08	3.90E-07	6.99E-08	6.99E-08	3.84E-08	5.97E-07	1.58E-08	2.11E-07	3.11E-08	3.11E-08	1.54E-08	3.05E-07
732	258062.59	4084834.15	1.90E-07	2.53E-06	4.43E-07	4.43E-07	2.47E-07	3.86E-06	2.88E-08	3.86E-07	6.91E-08	6.91E-08	3.80E-08	5.91E-07	1.56E-08	2.09E-07	3.07E-08	3.07E-08	1.52E-08	3.01E-07
733	258038.26	4084835.15	1.87E-07	2.50E-06	4.37E-07	4.37E-07	2.43E-07	3.80E-06	2.84E-08	3.81E-07	6.82E-08	6.82E-08	3.75E-08	5.83E-07	1.54E-08	2.06E-07	3.03E-08	3.03E-08	1.50E-08	2.97E-07
734	258013.93	4084836.15	1.84E-07	2.46E-06	4.30E-07	4.30E-07	2.40E-07	3.74E-06	2.80E-08	3.75E-07	6.71E-08	6.71E-08	3.69E-08	5.74E-07	1.52E-08	2.03E-07	2.99E-08	2.99E-08	1.48E-08	2.92E-07

735	257989.6	4084837.15	1.81E-07	2.41E-06	4.22E-07	4.22E-07	2.35E-07	3.67E-06	2.74E-08	3.68E-07	6.58E-08	6.58E-08	3.62E-08	5.63E-07	1.49E-08	1.99E-07	2.93E-08	2.93E-08	1.45E-08	2.87E-07
736	257965.26	4084838.15	1.77E-07	2.36E-06	4.12E-07	4.12E-07	2.30E-07	3.59E-06	2.68E-08	3.60E-07	6.44E-08	6.44E-08	3.54E-08	5.50E-07	1.46E-08	1.95E-07	2.86E-08	2.86E-08	1.42E-08	2.81E-07
737	257940.93	4084839.15	1.72E-07	2.30E-06	4.01E-07	4.01E-07	2.24E-07	3.50E-06	2.61E-08	3.50E-07	6.27E-08	6.27E-08	3.45E-08	5.36E-07	1.42E-08	1.89E-07	2.79E-08	2.79E-08	1.38E-08	2.73E-07
738	257916.6	4084840.15	1.67E-07	2.23E-06	3.89E-07	3.89E-07	2.17E-07	3.39E-06	2.53E-08	3.39E-07	6.07E-08	6.07E-08	3.34E-08	5.19E-07	1.37E-08	1.84E-07	2.70E-08	2.70E-08	1.34E-08	2.65E-07
739	257892.27	4084841.15	1.61E-07	2.14E-06	3.75E-07	3.75E-07	2.09E-07	3.26E-06	2.44E-08	3.27E-07	5.85E-08	5.85E-08	3.22E-08	5.00E-07	1.32E-08	1.77E-07	2.60E-08	2.60E-08	1.29E-08	2.55E-07
740	257867.94	4084842.15	1.54E-07	2.05E-06	3.58E-07	3.58E-07	2.00E-07	3.12E-06	2.33E-08	3.13E-07	5.59E-08	5.59E-08	3.08E-08	4.79E-07	1.27E-08	1.69E-07	2.49E-08	2.49E-08	1.23E-08	2.44E-07
741	257843.6	4084843.15	1.46E-07	1.95E-06	3.40E-07	3.40E-07	1.90E-07	2.96E-06	2.21E-08	2.97E-07	5.31E-08	5.31E-08	2.92E-08	4.54E-07	1.20E-08	1.60E-07	2.36E-08	2.36E-08	1.17E-08	2.31E-07
742	257819.27	4084844.15	1.37E-07	1.83E-06	3.19E-07	3.19E-07	1.78E-07	2.78E-06	2.08E-08	2.78E-07	4.99E-08	4.99E-08	2.74E-08	4.26E-07	1.13E-08	1.51E-07	2.22E-08	2.22E-08	1.10E-08	2.17E-07
743	257794.94	4084845.15	1.27E-07	1.70E-06	2.96E-07	2.96E-07	1.65E-07	2.58E-06	1.93E-08	2.58E-07	4.63E-08	4.63E-08	2.54E-08	3.96E-07	1.05E-08	1.40E-07	2.06E-08	2.06E-08	1.02E-08	2.02E-07
744	257770.61	4084846.15	1.16E-07	1.55E-06	2.71E-07	2.71E-07	1.51E-07	2.36E-06	1.76E-08	2.36E-07	4.23E-08	4.23E-08	2.32E-08	3.62E-07	9.57E-09	1.28E-07	1.88E-08	1.88E-08	9.31E-09	1.84E-07
745	257746.28	4084847.15	1.04E-07	1.39E-06	2.43E-07	2.43E-07	1.36E-07	2.12E-06	1.58E-08	2.12E-07	3.80E-08	3.80E-08	2.09E-08	3.25E-07	8.59E-09	1.15E-07	1.69E-08	1.69E-08	8.36E-09	1.66E-07
746	257721.95	4084848.15	9.17E-08	1.22E-06	2.14E-07	2.14E-07	1.19E-07	1.86E-06	1.39E-08	1.87E-07	3.34E-08	3.34E-08	1.84E-08	2.86E-07	7.56E-09	1.01E-07	1.49E-08	1.49E-08	7.35E-09	1.46E-07
747	257697.61	4084849.15	7.87E-08	1.05E-06	1.84E-07	1.84E-07	1.02E-07	1.60E-06	1.19E-08	1.60E-07	2.87E-08	2.87E-08	1.58E-08	2.45E-07	6.49E-09	8.66E-08	1.28E-08	1.28E-08	6.31E-09	1.25E-07
748	257673.28	4084850.15	6.59E-08	8.80E-07	1.54E-07	1.54E-07	8.57E-08	1.34E-06	9.99E-09	1.34E-07	2.40E-08	2.40E-08	1.32E-08	2.05E-07	5.43E-09	7.25E-08	1.07E-08	1.07E-08	5.28E-09	1.05E-07
749	257648.95	4084851.15	5.39E-08	7.20E-07	1.26E-07	1.26E-07	7.01E-08	1.10E-06	8.18E-09	1.10E-07	1.96E-08	1.96E-08	1.08E-08	1.68E-07	4.45E-09	5.94E-08	8.74E-09	8.74E-09	4.33E-09	8.56E-08
750	257624.62	4084852.15	4.37E-08	5.84E-07	1.02E-07	1.02E-07	5.69E-08	8.89E-07	6.64E-09	8.90E-08	1.59E-08	1.59E-08	8.76E-09	1.36E-07	3.60E-09	4.81E-08	7.09E-09	7.09E-09	3.51E-09	6.94E-08
751	257600.29	4084853.15	3.57E-08	4.77E-07	8.34E-08	8.34E-08	4.65E-08	7.27E-07	5.43E-09	7.27E-08	1.30E-08	1.30E-08	7.16E-09	1.11E-07	2.95E-09	3.94E-08	5.79E-09	5.79E-09	2.87E-09	5.68E-08
752	257575.95	4084854.15	2.99E-08	4.00E-07	6.98E-08	6.98E-08	3.89E-08	6.08E-07	4.54E-09	6.09E-08	1.09E-08	1.09E-08	5.99E-09	9.33E-08	2.47E-09	3.30E-08	4.85E-09	4.85E-09	2.40E-09	4.75E-08
753	257551.62	4084855.15	2.58E-08	3.44E-07	6.01E-08	6.01E-08	3.35E-08	5.23E-07	3.91E-09	5.24E-08	9.38E-09	9.38E-09	5.16E-09	8.02E-08	2.12E-09	2.84E-08	4.17E-09	4.17E-09	2.07E-09	4.09E-08
754	258374.21	4084780.22	1.39E-07	1.86E-06	3.25E-07	3.25E-07	1.81E-07	2.83E-06	2.11E-08	2.83E-07	5.07E-08	5.07E-08	2.79E-08	4.34E-07	1.15E-08	1.53E-07	2.26E-08	2.26E-08	1.12E-08	2.21E-07
755	258395.89	4084788.25	1.45E-07	1.94E-06	3.39E-07	3.39E-07	1.89E-07	2.95E-06	2.20E-08	2.95E-07	5.29E-08	5.29E-08	2.91E-08	4.52E-07	1.20E-08	1.60E-07	2.35E-08	2.35E-08	1.16E-08	2.30E-07
756	258417.58	4084796.27	1.50E-07	2.00E-06	3.49E-07	3.49E-07	1.95E-07	3.04E-06	2.27E-08	3.05E-07	5.45E-08	5.45E-08	3.00E-08	4.66E-07	1.23E-08	1.65E-07	2.43E-08	2.43E-08	1.20E-08	2.38E-07
757	258439.27	4084804.3	1.52E-07	2.03E-06	3.54E-07	3.54E-07	1.98E-07	3.09E-06	2.31E-08	3.09E-07	5.53E-08	5.53E-08	3.04E-08	4.73E-07	1.25E-08	1.67E-07	2.46E-08	2.46E-08	1.22E-08	2.41E-07
758	258470.49	4084833.4	1.63E-07	2.17E-06	3.79E-07	3.79E-07	2.11E-07	3.30E-06	2.47E-08	3.31E-07	5.92E-08	5.92E-08	3.26E-08	5.07E-07	1.34E-08	1.79E-07	2.63E-08	2.63E-08	1.30E-08	2.58E-07
759	258480.02	4084854.47	1.70E-07	2.27E-06	3.97E-07	3.97E-07	2.21E-07	3.45E-06	2.58E-08	3.46E-07	6.19E-08	6.19E-08	3.40E-08	5.30E-07	1.40E-08	1.87E-07	2.75E-08	2.75E-08	1.36E-08	2.70E-07
760	258489.55	4084875.54	1.71E-07	2.29E-06	4.00E-07	4.00E-07	2.23E-07	3.49E-06	2.60E-08	3.49E-07	6.25E-08	6.25E-08	3.43E-08	5.34E-07	1.41E-08	1.89E-07	2.78E-08	2.78E-08	1.38E-08	2.72E-07
761	258499.08	4084896.61	1.67E-07	2.23E-06	3.90E-07	3.90E-07	2.17E-07	3.40E-06	2.54E-08	3.40E-07	6.09E-08	6.09E-08	3.35E-08	5.21E-07	1.38E-08	1.84E-07	2.71E-08	2.71E-08	1.34E-08	2.65E-07
762	258352.52	4084772.19	1.33E-07	1.77E-06	3.10E-07	3.10E-07	1.73E-07	2.70E-06	2.02E-08	2.70E-07	4.84E-08	4.84E-08	2.66E-08	4.14E-07	1.10E-08	1.46E-07	2.15E-08	2.15E-08	1.07E-08	2.11E-07
763	258328.19	4084773.19	1.34E-07	1.79E-06	3.12E-07	3.12E-07	1.74E-07	2.72E-06	2.03E-08	2.72E-07	4.88E-08	4.88E-08	2.68E-08	4.17E-07	1.10E-08	1.47E-07	2.17E-08	2.17E-08	1.07E-08	2.13E-07
764	258303.85	4084774.19	1.34E-07	1.80E-06	3.14E-07	3.14E-07	1.75E-07	2.73E-06	2.04E-08	2.73E-07	4.90E-08	4.90E-08	2.69E-08	4.19E-07	1.11E-08	1.48E-07	2.18E-08	2.18E-08	1.08E-08	2.13E-07
765	258279.52	4084775.19	1.35E-07	1.80E-06	3.14E-07	3.14E-07	1.75E-07	2.73E-06	2.04E-08	2.74E-07	4.90E-08	4.90E-08	2.69E-08	4.19E-07	1.11E-08	1.48E-07	2.18E-08	2.18E-08	1.08E-08	2.14E-07
766	258255.19	4084776.19	1.34E-07	1.79E-06	3.13E-07	3.13E-07	1.75E-07	2.73E-06	2.04E-08	2.73E-07	4.89E-08	4.89E-08	2.69E-08	4.19E-07	1.11E-08	1.48E-07	2.18E-08	2.18E-08	1.08E-08	2.13E-07
767	258230.86	4084777.19	1.34E-07	1.79E-06	3.12E-07	3.12E-07	1.74E-07	2.72E-06	2.03E-08	2.72E-07	4.88E-08	4.88E-08	2.68E-08	4.17E-07	1.10E-08	1.47E-07	2.17E-08	2.17E-08	1.07E-08	2.13E-07
768	258206.53	4084778.19	1.33E-07	1.78E-06	3.11E-07	3.11E-07	1.73E-07	2.71E-06	2.02E-08	2.71E-07	4.85E-08	4.85E-08	2.67E-08	4.15E-07	1.10E-08	1.47E-07	2.16E-08	2.16E-08	1.07E-08	2.12E-07
769	258182.2	4084779.19	1.32E-07	1.77E-06	3.09E-07	3.09E-07	1.72E-07	2.69E-06	2.01E-08	2.69E-07	4.82E-08	4.82E-08	2.65E-08	4.12E-07	1.09E-08	1.46E-07	2.14E-08	2.14E-08	1.06E-08	2.10E-07
770	258157.86	4084780.19	1.31E-07	1.75E-06	3.06E-07	3.06E-07	1.71E-07	2.66E-06	1.99E-08	2.67E-07	4.78E-08	4.78E-08	2.63E-08	4.08E-07	1.08E-08	1.44E-07	2.12E-08	2.12E-08	1.05E-08	2.08E-07
771	258133.53	4084781.19	1.30E-07	1.73E-06	3.03E-07	3.03E-07	1.69E-07	2.64E-06	1.97E-08	2.64E-07	4.72E-08	4.72E-08	2.60E-08	4.04E-07	1.07E-08	1.43E-07	2.10E-08	2.10E-08	1.04E-08	2.06E-07
772	258109.2	4084782.19	1.28E-07	1.71E-06	2.98E-07	2.98E-07	1.66E-07	2.60E-06	1.94E-08	2.60E-07	4.66E-08	4.66E-08	2.56E-08	3.99E-07	1.05E-08	1.41E-07	2.07E-08	2.07E-08	1.03E-08	2.03E-07
773	258084.87	4084783.19	1.26E-07	1.68E-06	2.94E-07	2.94E-07	1.64E-07	2.56E-06	1.91E-08	2.56E-07	4.59E-08	4.59E-08	2.52E-08	3.92E-07	1.04E-08	1.39E-07	2.04E-08	2.04E-08	1.01E-08	2.00E-07
774	258060.54	4084784.19	1.24E-07	1.65E-06	2.88E-07	2.88E-07	1.61E-07	2.51E-06	1.88E-08	2.51E-07	4.50E-08	4.50E-08	2.47E-08	3.85E-07	1.02E-08	1.36E-07	2.00E-08	2.00E-08	9.91E-09	1.96E-07
775	258036.2	4084785.19	1.21E-07	1.61E-06	2.82E-07	2.82E-07	1.57E-07	2.46E-06	1.83E-08	2.46E-07	4.40E-08	4.40E-08	2.42E-08	3.77E-07	9.96E-09	1.33E-07	1.96E-08	1.96E-08	9.70E-09	1.92E-07
776	258011.87	4084786.19	1.18E-07	1.57E-06	2.75E-07	2.75E-07	1.53E-07	2.39E-06	1.79E-08	2.40E-07	4.29E-08	4.29E-08	2.36E-08	3.67E-07	9.71E-09	1.30E-07	1.91E-08	1.91E-08	9.45E-09	1.87E-07
777	257987.54	4084787.19	1.14E-07	1.53E-06	2.67E-07	2.67E-07	1.49E-07	2.32E-06	1.73E-08	2.33E-07	4.16E-08	4.16E-08	2.29E-08	3.56E-07	9.42E-09	1.26E-07	1.85E-08	1.85E-08	9.17E-09	1.81E-07
778	257963.21	4084788.19	1.10E-07	1.47E-06	2.58E-07	2.58E-07	1.44E-07	2.24E-06	1.68E-08	2.25E-07	4.02E-08	4.02E-08	2.21E-08	3.44E-07	9.10E-09	1.22E-07	1.79E-08	1.79E-08	8.86E-09	1.75E-07
779	257938.88	4084789.19	1.06E-07	1.42E-06	2.47E-07	2.47E-07	1.38E-07	2.15E-06	1.61E-08	2.16E-07	3.86E-08	3.86E-08	2.12E-08	3.30E-07	8.74E-09	1.17E-07	1.72E-08	1.72E-08	8.50E-09	1.68E-07
780	257914.55	4084790.19	1.01E-07	1.35E-06	2.36E-07	2.36E-07	1.32E-07	2.06E-06	1.54E-08	2.06E-07	3.68E-08	3.68E-08	2.03E-08	3.15E-07	8.34E-09	1.11E-07	1.64E-08	1.64E-08	8.11E-09	1.61E-07
781	257890.21	4084791.19	9.58E-08	1.28E-06	2.23E-07	2.23E-07	1.25E-07	1.95E-06	1.45E-08	1.95E-07	3.49E-08	3.49E-08	1.92E-08	2.98E-07	7.90E-09	1.05E-07	1.55E-08	1.55E-08	7.68E-09	1.52E-07
782	257865.88	4084792.19	8.99E-08	1.20E-06	2.10E-07	2.10E-07	1.17E-07	1.83E-06	1.36E-08	1.83E-07	3.28E-08	3.28E-08	1.80E-08	2.80E-07	7.41E-09	9.90E-08	1.46E-08	1.46E-08	7.22E-09	1.43E-07
783	257841.55	4084793.19	8.36E-08	1.12E-06	1.95E-07	1.95E-07	1.09E-07	1.70E-06	1.27E-08	1.70E-07	3.05E-08	3.05E-08	1.67E-08	2.60E-07	6.89E-09	9.21E-08	1.36E-08	1.36E-08	6.71E-09	1.33E-07
784	257817.22	4084794.19	7.69E-08	1.03E-06	1.79E-07	1.79E-07	1.00E-07	1.56E-06	1.17E-08	1.56E-07	2.80E-08	2.80E-08	1.54E-08	2.39E-07	6.34E-09	8.46E-08	1.25E-08	1.25E-08	6.17E-09	1.22E-07
785	257792.89	4084795.19	6.98E-08	9.32E-07	1.63E-07	1.63E-07	9.07E-08	1.42E-06	1.06E-08	1.42E-07	2.54E-08	2.54E-08	1.40E-08	2.17E-07	5.75E-09	7.68E-08	1.13E-08	1.13E-08	5.60E-09	1.11E-07
786	257768.55	4084796.19	6.24E-08	8.34E-07	1.46E-07	1.46E-07	8.12E-08	1.27E-06	9.48E-09	1.27E-07	2.27E-08	2.27E-08	1.25E-08	1.95E-07	5.15E-09	6.87E-08	1.01E-08	1.01E-08	5.01E-09	9.91E-08
787	257744.22	4084797.19	5.51E-08	7.36E-07	1.29E-07	1.29E-07	7.16E-08	1.12E-06	8.36E-09	1.12E-07	2.01E-08	2.01E-08	1.10E-08	1.72E-07	4.54E-09	6.06E-08	8.93E-09	8.93E-09	4.42E-09	8.75E-08
788	257719.89	4084798.19	4.79E-08	6.40E-07	1.12E-07	1.12E-07	6.23E-08	9.74E-07	7.27E-09	9.75E-08	1.75E-08	1.75E-08	9.60E-09	1.49E-07	3.95E-09	5.28E-08	7.77E-09	7.77E-09	3.84E-09	7.61E-08
789	257695.56	4084799.19	4.12E-08	5.50E-07	9.61E-08	9.61E-08	5.36E-08	8.37E-07	6.25E-09	8.38E-08	1.50E-08	1.50E-08	8.25E-09	1.28E-07	3.40E-09	4.54E-08	6.68E-09	6.68E-09	3.30E-09	6.54E-08
790	257671.23	4084800.2	3.52E-08	4.70E-07	8.20E-08	8.20E-08	4.57E-08	7.15E-07	5.34E-09	7.16E-08	1.28E-08	1.28E-08	7.04E-09	1.10E-07	2.90E-09	3.87E-08	5.70E-09	5.70E-09	2.82E-09	5.58E-08
791	257646.9	4084801.2	3.00E-08	4.01E-07	7.00E-08	7.00E-08	3.90E-08	6.10E-07	4.56E-09	6.11E-08	1.09E-08	1.09E-08	6.01E-09	9.35E-08	2.47E-09	3.31E-08	4.87E-09	4.87E-09	2.41E-09	4.77E-08
792	257622.56	4084802.2	2.58E-08	3.45E-07	6.02E-08	6.02E-08	3.36E-08	5.25E-07	3.92E-09	5.25E-08	9.40E-09	9.40E-09	5.17E-09	8.04E-08	2.13E-09	2.84E-08	4.18E-09	4.18E-09	2.07E-09	4.10E-08
793	257598.23	4084803.2	2.25E-08	3.00E-07	5.25E-08	5.25E-08	2.92E-08	4.57E-07	3.41E-09	4.58E-08	8.19E-09	8.19E-09	4.50E-09	7.00E-08	1.85E-09	2.48E-08	3.64E-09	3.64E-09	1.80E-09	3.57E-08
794	257573.9	4084804.2	1.99E-08	2.65E-07	4.64E-08	4.64E-08	2.58E-08	4.04E-07	3.02E-09	4.04E-08	7.24E-09	7.24E-09	3.98E-09	6.19E-08	1.64E-09	2.19E-08	3.22E-09	3.22E-09	1.59E-09	3.16E-08
795	257549.57	4084805.2	1.78E-08	2.38E-07	4.15E-08	4.15E-08	2.32E-08	3.62E-07	2.70E-09	3.62E-08	6.48E-09	6.48E-09	3.56E-09	5.55E-08	1.47E-09	1.96E-08	2.88E-09	2.88E-09	1.43E-09	2.83E-08
796	258371.12	4084729.88	1.03E-07	1.37E-06	2.40E-07	2.40E-07	1.34E-07	2.09E-06	1.56E-08	2.09E-07	3.74E-08	3.74E-08	2.06E-08	3.20E-07	8.47E-09	1.13E-07	1.67E-08	1.67E-08	8.24E-09	1.63E-07
797	258412.43	4084745.17	1.11E-07	1.48E-06	2.59E-07	2.59E-07	1.44E-07	2.25E-06	1.68E-08	2.25E-07	4.04E-08	4.04E-08	2.22E-08	3.45E-07	9.13E-09	1.22E-07	1.80E-08	1.80E-08	8.89E-09	1.76E-07
798	258453.74	4084760.46	1.16E-07	1.55E-06	2.71E-07	2.71E-07	1.51E-07	2.36E-06	1.76E-08	2.37E-07	4.23E-08	4.23E-08	2.33E-08	3.62E-07	9.58E-09	1.28E-07	1.88E-08	1.88E-08	9.32E-09	1.85E-07
799	258504.13	4084795.83	1.23E-07	1.65E-06	2.88E-07	2.88E-07	1.60E-07	2.51E-06	1.87E-08	2.51E-07	4.49E-08	4.49E-08	2.47E-08	3.84E-07	1.02E-08	1.36E-07	2.00E-08	2.00E-08	9.89E-09	1.96E-07
800	258522.28	4084835.96	1.31E-07	1.74E-06	3.05E-07	3.05E-07	1.70E-07	2.65E-06	1.98E-08	2.66E-07	4.76E-08	4.76E-08	2.62E-08	4.07E-07	1.08E-08	1.44E-07	2.12E-08	2.12E-08	1.05E-08	2.07E-07
801	258540.44	4084876.09	1.26E-07	1.68E-06	2.94E-07	2.94E-07	1.64E-07	2.56E-06	1.91E-08	2.57E-07	4.59E-08	4.59E-08	2.53E-08	3.93E-07	1.04E-08	1.39E-07	2.04E-08	2.04E-08	1.01E-08	2.00E-07
802	258326.13	4084723.23	9.84E-08	1.32E-06	2.30E-07	2.30E-07	1.28E-07	2.00E-06	1.49E-08	2.00E-07	3.59E-08	3.59E-08	1.97E-08	3.07E-07	8.11E-09	1.08E-07	1.60E-08	1.60E-08	7.90E-09	1.56E-07
803	258301.8	4084724.23	9.83E-08	1.31E-06	2.29E-07	2.29E-07	1.28E-07	2.00E-06	1.49E-08	2.00E-07	3.58E-08	3.58E-08	1.97E-08	3.06E-07	8.10E-09	1.08E-07	1.59E-08	1.59E-08	7.89E-09	1.56E-07
804	258277.47	4084725.23	9.79E-08	1.31E-06	2.28E-07	2.28E-07	1.27E-07	1.99E-06	1.49E-08	1.99E-07	3.57E-08	3.57E-08	1.96E-08	3.05E-07	8.07E-09	1.08E-07	1.59E-08	1.59E-08	7.85E-09	1.55E-07
805	258253.14	4084726.23	9.73E-08	1.30E-06	2.27E-07	2.27E-07	1.27E-07	1.98E-06	1.48E-08	1.98E-07	3.54E-08	3.54E-08	1.95E-08	3.03E-07	8.02E-09	1.07E-07	1.58E-08	1.58E-08	7.80E-09	1.54E-07
806	258228.81	4084727.23	9.64E-08	1.29E-06	2.25E-07	2.25E-07	1.25E-07	1.96E-06	1.46E-08	1.96E-07	3.51E-08	3.51E-08	1.93E-08	3.00E-07	7.95E-09	1.06E-07	1.56E-08	1.56E-08	7.73E-09	1.53E-07
807	258204.47	4084728.23	9.54E-08	1.27E-06	2.23E-07	2.23E-07	1.24E-07	1.94E-06	1.45E-08	1.94E-07	3.47E-08	3.47E-08	1.91E-08	2.97E-07	7.86E-09	1.05E-07	1.55E-08	1.55E-08	7.65E-09	1.51E-07
808	258180.14	4084729.23	9.41E-08	1.26E-06	2.20E-07	2.20E-07	1.22E-07	1.91E-06	1.43E-08	1.92E-07	3.43E-08	3.43E-08	1.89E-08	2.93E-07	7.76E-09	1.04E-07	1.53E-08	1.53E-08	7.55E-09	1.49E-07
809	258155.81	4084730.23	9.27E-08	1.24E-06	2.16E-07	2.16E-07	1.21E-07	1.88E-06	1.41E-08	1.89E-07	3.38E-08	3.38E-08	1.86E-08	2.89E-07	7.64E-09	1.02E-07	1.50E-08	1.50E-08	7.44E-09	1.47E-07
810	258131.48	4084731.23	9.10E-08	1.22E-06	2.12E-07	2.12E-07	1.18E-07	1.85E-06	1.38E-08	1.85E-07	3.32E-08	3.32E-08	1.82E-08	2.84E-07	7.50E-09	1.00E-07	1.48E-08	1.48E-08	7.30E-09	1.45E-07
811	258107.15	4084732.23	8.91E-08	1.19E-06	2.08E-07	2.08E-07	1.16E-07	1.81E-06	1.35E-08	1.81E-07	3.25E-08	3.25E-08	1.79E-08	2.78E-07	7.35E-09	9.82E-08	1.44E-08	1.44E-08	7.15E-09	1.42E-07
812	258082.81	4084733.23	8.70E-08	1.16E-06	2.03E-07	2.03E-07	1.13E-07	1.77E-06	1.32E-08	1.77E-07	3.17E-08	3.17E-08	1.74E-08	2.71E-07	7.17E-09	9.58E-08	1.41E-08	1.41E-08	6.98E-09	1.38E-07
813	258058.48	4084734.23	8.46E-08	1.13E-06	1.97E-07	1.97E-07	1.10E-07	1.72E-06	1.28E-08	1.72E-07	3.08E-08	3.08E-08	1.70E-08	2.64E-07	6.98E-09	9.32E-08	1.37E-08	1.37E-08	6.79E-09	1.34E-07
814	258034.15	4084735.23	8.20E-08	1.10E-06	1.91E-07	1.91E-07	1.07E-07	1.67E-06	1.24E-08	1.67E-07	2.99E-08	2.99E-08	1.64E-08	2.55E-07	6.76E-09	9.03E-08	1.33E-08	1.33E-08	6.58E-09	1.30E-07
815	258009.82	4084736.23	7.9087E-08	1.06E-06	1.85E-07	1.85E-07	1.03E-07	1.61E-06	1.20E-08	1.61E-07	2.88E-08	2.88E-08	1.58E-08	2.46E-07	6.52E-09	8.71E-08	1.28E-08	1.28E-08	6.34E-09	1.26E-07
816	257985.49	4084737.23	7.5886E-08	1.01E-06	1.77E-07	1.77E-07	9.87E-08	1.54E-06	1.15E-08	1.54E-07	2.76E-08	2.76E-08	1.52E-08	2.36E-07	6.26E-09	8.36E-08	1.23E-08	1.23E-08	6.09E-09	1.20E-07
817	257961.16	4084738.23	7.2396E-08	9.67E-07	1.69E-07	1.69E-07	9.42E-08	1.47E-06	1.10E-08	1.47E-07	2.64E-08	2.64E-08	1.45E-08	2.26E-07	5.97E-09	7.97E-08	1.17E-08	1.17E-08	5.81E-09	1.15E-07
818	257936.82	4084739.23	6.8621E-08	9.17E-07	1.60E-07	1.60E-07	8.93E-08	1.39E-06	1.04E-08	1.40E-07	2.50E-08	2.50E-08	1.37E-08	2.14E-07	5.66E-09	7.56E-08	1.11E-08	1.11E-08	5.51E-09	1.09E-07
819	257912.49	4084740.23	6.4578E-08	8.63E-07	1.51E-07	1.51E-07	8.40E-08	1.31E-06	9.80E-09	1.31E-07	2.35E-08	2.35E-08	1.29E-08	2.01E-07	5.32E-09	7.11E-08	1.05E-08	1.05E-08	5.18E-09	1.03E-07
820	257888.16	4084741.23	6.0287E-08	8.05E-07	1.41E-07	1.41E-07	7.84E-08	1.23E-06	9.15E-09	1.23E-07	2.20E-08	2.20E-08	1.21E-08	1.88E-07	4.97E-09	6.64E-08	9.77E-09	9.77E-09	4.84E-09	9.57E-08
821	257863.83	4084742.23	5.5791E-08	7.45E-07	1.30E-07	1.30E-07	7.26E-08	1.13E-06	8.47E-09	1.14E-07	2.03E-08	2.03E-08	1.12E-08	1.74E-07	4.60E-09	6.14E-08	9.04E-09	9.04E-09	4.48E-09	8.86E-08
822	257839.5	4084743.24	5.115E-08	6.83E-07	1.19E-07	1.19E-07	6.65E-08	1.04E-06	7.76E-09	1.04E-07	1.86E-08	1.86E-08	1.02E-08	1.59E-07	4.22E-09	5.63E-08	8.29E-09	8.29E-09	4.10E-09	8.12E-08
823	257815.16	4084744.24	4.6433E-08	6.20E-07	1.08E-07	1.08E-07	6.04E-08	9.44E-07	7.05E-09	9.45E-08	1.69E-08	1.69E-08	9.30E-09	1.45E-07	3.83E-09	5.11E-08	7.53E-09	7.53E-09	3.73E-09	7.37E-08
824	257790.83	4084745.24	4.1739E-08	5.58E-07	9.74E-08	9.74E-08	5.43E-08	8.48E-07	6.33E-09	8.49E-08	1.52E-08	1.52E-08	8.36E-09	1.30E-07	3.44E-09	4.60E-08	6.76E-09	6.76E-09	3.35E-09	6.63E-08
825	257766.5	4084746.24	3.7178E-08	4.97E-07	8.67E-08	8.67E-08	4.84E-08	7.56E-07	5.64E-09	7.57E-08	1.35E-08	1.35E-08	7.45E-09	1.16E-07	3.06E-09	4.09E-08	6.03E-09	6.03E-09	2.98E-09	5.90E-08
826	257742.17	4084747.24	3.2865E-08	4.39E-07	7.67E-08	7.67E-08	4.27E-08	6.68E-07	4.99E-09	6.69E-08	1.20E-08	1.20E-08	6.58E-09	1.02E-07	2.71E-09	3.62E-08	5.33E-09	5.33E-09	2.64E-09	5.22E-08
827	257717.84	4084748.24	2.8906E-08	3.86E-07	6.74E-08	6.74E-08	3.76E-08	5.87E-07	4.39E-09	5.88E-08	1.05E-08	1.05E-08	5.79E-09	9.01E-08	2.38E-09	3.18E-08	4.68E-09	4.68E-09	2.32E-09	4.59E-08
828	257693.51	4084749.24	2.538E-08	3.39E-07	5.92E-08	5.92E-08	3.30E-08	5.16E-07	3.85E-09	5.16E-08	9.25E-09	9.25E-09	5.08E-09	7.91E-08	2.09E-09	2.79E-08	4.11E-09	4.11E-09	2.04E-09	4.03E-08
829	257669.17	4084750.24	2.2334E-08	2.98E-07	5.21E-08	5.21E-08	2.90E-08	4.54E-07	3.39E-09	4.54E-08	8.14E-09	8.14E-09	4.47E-09	6.96E-08	1.84E-09	2.46E-08	3.62E-09	3.62E-09	1.79E-09	3.55E-08
830	257644.84	4084751.24	1.9766E-08	2.64E-07	4.61E-08	4.61E-08	2.57E-08	4.02E-07	3.00E-09	4.02E-08	7.20E-09	7.20E-09	3.96E-09	6.16E-08	1.63E-09	2.18E-08	3.20E-09	3.20E-09	1.59E-09	3.14E-08
831	257620.51	4084752.24	1.7636E-08	2.36E-07	4.11E-08	4.11E-08	2.29E-08	3.58E-07	2.68E-09	3.59E-08	6.42E-09	6.42E-09	3.53E-09	5.49E-08	1.45E-09	1.94E-08	2.86E-09	2.86E-09	1.41E-09	2.80E-08
832	257596.18	4084753.24	1.5883E-08	2.12E-07	3.71E-08	3.71E-08	2.07E-08	3.23E-07	2.41E-09	3.23E-08	5.79E-09	5.79E-09	3.18E-09	4.95E-08	1.31E-09	1.75E-08	2.57E-09	2.57E-09	1.27E-09	2.52E-08
833	257571.85	4084754.24	1.4435E-08	1.93E-07	3.37E-08	3.37E-08	1.88E-08	2.93E-07	2.19E-09	2.94E-08	5.26E-09	5.26E-09	2.89E-09	4.50E-08	1.19E-09	1.59E-08	2.34E-09	2.34E-09	1.16E-09	2.29E-08
834	257547.51	4084755.24	1.3223E-08	1.77E-07	3.09E-08	3.09E-08	1.72E-08	2.69E-07	2.01E-09	2.69E-08	4.82E-09	4.82E-09	2.65E-09	4.12E-08	1.09E-09	1.46E-08	2.14E-09	2.14E-09	1.06E-09	2.10E-08
835	258371	4084680.64	7.8858E-08	1.05E-06	1.84E-07	1.84E-07	1.03E-07	1.60E-06	1.20E-08	1.60E-07	2.87E-08	2.87E-08	1.58E-08	2.46E-07	6.50E-09	8.68E-08	1.28E-08	1.28E-08	6.33E-09	1.25E-07
836	258393.59	4084689	8.2487E-08	1.10E-06	1.92E-07	1.92E-07	1.07E-07	1.68E-06	1.25E-08	1.68E-07	3.00E-08	3.00E-08	1.65E-08	2.57E-07	6.80E-09	9.08E-08	1.34E-08	1.34E-08	6.62E-09	1.31E-07
837	258416.18	4084697.36	8.5893E-08	1.15E-06	2.00E-07	2.00E-07	1.12E-07	1.75E-06	1.30E-08	1.75E-07	3.13E-08	3.13E-08	1.72E-08	2.68E-07	7.08E-09	9.46E-08	1.39E-08	1.39E-08	6.89E-09	1.36E-07
838	258438.77	4084705.73	8.8936E-08	1.19E-06	2.07E-07	2.07E-07	1.16E-07	1.81E-06	1.35E-08	1.81E-07	3.24E-08	3.24E-08	1.78E-08	2.77E-07	7.33E-09	9.79E-08	1.44E-08	1.44E-08	7.13E-09	1.41E-07
839	258461.37	4084714.09	9.1406E-08	1.22E-06	2.13E-07	2.13E-07	1.19E-07	1.86E-06	1.39E-08	1.86E-07	3.33E-08	3.33E-08	1.83E-08	2.85E-07	7.53E-09	1.01E-07	1.48E-08	1.48E-08	7.33E-09	1.45E-07
840	258483.96	4084722.46	9.3066E-08	1.24E-06	2.17E-07	2.17E-07	1.21E-07	1.89E-06	1.41E-08	1.89E-07	3.39E-08	3.39E-08	1.86E-08	2.90E-07	7.67E-09	1.02E-07	1.51E-08	1.51E-08	7.47E-09	1.48E-07
841	258506.55	4084730.82	9.3644E-08	1.25E-06	2.18E-07	2.18E-07	1.22E-07	1.90E-06	1.42E-08	1.91E-07	3.41E-08	3.41E-08	1.88E-08	2.92E-07	7.72E-09	1.03E-07	1.52E-08	1.52E-08	7.51E-09	1.49E-07
842	258539.07	4084761.13	9.827E-08	1.31E-06	2.29E-07	2.29E-07	1.28E-07	2.00E-06	1.49E-08	2.00E-07	3.58E-08	3.58E-08	1.97E-08	3.06E-07	8.10E-09	1.08E-07	1.59E-08	1.59E-08	7.88E-09	1.56E-07
843	258549	4084783.08	1.0197E-07	1.36E-06	2.38E-07	2.38E-07	1.33E-07	2.07E-06	1.55E-08	2.08E-07	3.71E-08	3.71E-08	2.04E-08	3.18E-07	8.41E-09	1.12E-07	1.65E-08	1.65E-08	8.18E-09	1.62E-07
844	258558.93	4084805.03	1.0374E-07	1.39E-06	2.42E-07	2.42E-07	1.35E-07	2.11E-06	1.57E-08	2.11E-07	3.78E-08	3.78E-08	2.08E-08	3.23E-07	8.55E-09	1.14E-07	1.68E-08	1.68E-08	8.32E-09	1.65E-07
845	258568.86	4084826.98	1.0332E-07	1.38E-06	2.41E-07	2.41E-07	1.34E-07	2.10E-06	1.57E-08	2.10E-07	3.76E-08	3.76E-08	2.07E-08	3.22E-07	8.52E-09	1.14E-07	1.67E-08	1.67E-08	8.29E-09	1.64E-07
846	258578.79	4084848.92	1.0044E-07	1.34E-06	2.34E-07	2.34E-07	1.31E-07	2.04E-06	1.52E-08	2.04E-07	3.66E-08	3.66E-08	2.01E-08	3.13E-07	8.28E-09	1.11E-07	1.63E-08	1.63E-08	8.06E-09	1.59E-07
847	258588.71	4084870.87	9.5311E-08	1.27E-06	2.22E-07	2.22E-07	1.24E-07	1.94E-06	1.45E-08	1.94E-07	3.47E-08	3.47E-08	1.91E-08	2.97E-07	7.86E-09	1.05E-07	1.54E-08	1.54E-08	7.65E-09	1.51E-07
848	258598.64	4084892.82	8.8438E-08	1.18E-06	2.06E-07	2.06E-07	1.15E-07	1.80E-06	1.34E-08	1.80E-07	3.22E-08	3.22E-08	1.77E-08	2.76E-07	7.29E-09	9.74E-08	1.43E-08	1.43E-08	7.09E-09	1.40E-07
849	258348.41	4084672.27	7.5091E-08	1.00E-06	1.75E-07	1.75E-07	9.77E-08	1.53E-06	1.14E-08	1.53E-07	2.74E-08	2.74E-08	1.50E-08	2.34E-07	6.19E-09	8.27E-08	1.22E-08	1.22E-08	6.02E-09	1.19E-07
850	258324.08	4084673.27	7.4769E-08	9.99E-07	1.74E-07	1.74E-07	9.73E-08	1.52E-06	1.13E-08	1.52E-07	2.72E-08	2.72E-08	1.50E-08	2.33E-07	6.16E-09	8.23E-08	1.21E-08	1.21E-08	6.00E-09	1.19E-07
851	258299.75	4084674.27	7.4251E-08	9.92E-07	1.73E-07	1.73E-07	9.66E-08	1.51E-06	1.13E-08	1.51E-07	2.70E-08	2.70E-08	1.49E-08	2.31E-07	6.12E-09	8.18E-08	1.20E-08	1.20E-08	5.96E-09	1.18E-07
852	258275.42	4084675.27	7.3546E-08	9.82E-07	1.72E-07	1.72E-07	9.57E-08	1.49E-06	1.12E-08	1.50E-07	2.68E-08	2.68E-08	1.47E-08	2.29E-07	6.06E-09	8.10E-08	1.19E-08	1.19E-08	5.90E-09	1.17E-07
853	258251.08	4084676.27	7.2662E-08	9.71E-07	1.70E-07	1.70E-07	9.45E-08	1.48E-06	1.10E-08	1.48E-07	2.65E-08	2.65E-08	1.46E-08	2.26E-07	5.99E-09	8.00E-08	1.18E-08	1.18E-08	5.83E-09	1.15E-07
854	258226.75	4084677.27	7.1609E-08	9.57E-07	1.67E-07	1.67E-07	9.31E-08	1.46E-06	1.09E-08	1.46E-07	2.61E-08	2.61E-08	1.43E-08	2.23E-07	5.90E-09	7.88E-08	1.16E-08	1.16E-08	5.74E-09	1.14E-07
855	258202.42	4084678.27	7.0397E-08	9.40E-07	1.64E-07	1.64E-07	9.16E-08	1.43E-06	1.07E-08	1.43E-07	2.56E-08	2.56E-08	1.41E-08	2.19E-07	5.80E-09	7.75E-08	1.14E-08	1.14E-08	5.65E-09	1.12E-07
856	258178.09	4084679.27	6.9025E-08	9.22E-07	1.61E-07	1.61E-07	8.98E-08	1.40E-06	1.05E-08	1.40E-07	2.51E-08	2.51E-08	1.38E-08	2.15E-07	5.69E-09	7.60E-08	1.12E-08	1.12E-08	5.54E-09	1.10E-07
857	258153.76	4084680.27	6.7491E-08	9.02E-07	1.57E-07	1.57E-07	8.78E-08	1.37E-06	1.02E-08	1.37E-07	2.46E-08	2.46E-08	1.35E-08	2.10E-07	5.56E-09	7.43E-08	1.09E-08	1.09E-08	5.41E-09	1.07E-07

858	258129.42	4084681.27	6.5787E-08	8.79E-07	1.53E-07	1.53E-07	8.56E-08	1.34E-06	9.98E-09	1.34E-07	2.40E-08	2.40E-08	1.32E-08	2.05E-07	5.42E-09	7.24E-08	1.07E-08	1.07E-08	5.28E-09	1.04E-07
859	258105.09	4084682.27	6.3909E-08	8.54E-07	1.49E-07	1.49E-07	8.31E-08	1.30E-06	9.70E-09	1.30E-07	2.33E-08	2.33E-08	1.28E-08	1.99E-07	5.27E-09	7.04E-08	1.04E-08	1.04E-08	5.13E-09	1.01E-07
860	258080.76	4084683.27	6.1854E-08	8.26E-07	1.44E-07	1.44E-07	8.05E-08	1.26E-06	9.39E-09	1.26E-07	2.25E-08	2.25E-08	1.24E-08	1.93E-07	5.10E-09	6.81E-08	1.00E-08	1.00E-08	4.96E-09	9.82E-08
861	258056.43	4084684.27	5.962E-08	7.96E-07	1.39E-07	1.39E-07	7.76E-08	1.21E-06	9.05E-09	1.21E-07	2.17E-08	2.17E-08	1.19E-08	1.86E-07	4.91E-09	6.56E-08	9.66E-09	9.66E-09	4.78E-09	9.47E-08
862	258032.1	4084685.27	5.7207E-08	7.64E-07	1.33E-07	1.33E-07	7.44E-08	1.16E-06	8.68E-09	1.16E-07	2.08E-08	2.08E-08	1.15E-08	1.78E-07	4.72E-09	6.30E-08	9.27E-09	9.27E-09	4.59E-09	9.08E-08
863	258007.77	4084686.28	5.4625E-08	7.30E-07	1.27E-07	1.27E-07	7.11E-08	1.11E-06	8.29E-09	1.11E-07	1.99E-08	1.99E-08	1.09E-08	1.70E-07	4.50E-09	6.01E-08	8.85E-09	8.85E-09	4.38E-09	8.67E-08
864	257983.43	4084687.28	5.1872E-08	6.93E-07	1.21E-07	1.21E-07	6.75E-08	1.05E-06	7.87E-09	1.06E-07	1.89E-08	1.89E-08	1.04E-08	1.62E-07	4.28E-09	5.71E-08	8.41E-09	8.41E-09	4.16E-09	8.24E-08
865	257959.1	4084688.28	4.8991E-08	6.54E-07	1.14E-07	1.14E-07	6.37E-08	9.96E-07	7.44E-09	9.97E-08	1.78E-08	1.78E-08	9.81E-09	1.53E-07	4.04E-09	5.39E-08	7.94E-09	7.94E-09	3.93E-09	7.78E-08
866	257934.77	4084689.28	4.5961E-08	6.14E-07	1.07E-07	1.07E-07	5.98E-08	9.34E-07	6.98E-09	9.35E-08	1.67E-08	1.67E-08	9.20E-09	1.43E-07	3.79E-09	5.06E-08	7.45E-09	7.45E-09	3.69E-09	7.30E-08
867	257910.44	4084690.28	4.2811E-08	5.72E-07	9.99E-08	9.99E-08	5.57E-08	8.70E-07	6.50E-09	8.71E-08	1.56E-08	1.56E-08	8.57E-09	1.33E-07	3.53E-09	4.71E-08	6.94E-09	6.94E-09	3.43E-09	6.80E-08
868	257886.11	4084691.28	3.9589E-08	5.29E-07	9.24E-08	9.24E-08	5.15E-08	8.05E-07	6.01E-09	8.06E-08	1.44E-08	1.44E-08	7.93E-09	1.23E-07	3.26E-09	4.36E-08	6.42E-09	6.42E-09	3.18E-09	6.29E-08
869	257861.77	4084692.28	3.6344E-08	4.85E-07	8.48E-08	8.48E-08	4.73E-08	7.39E-07	5.52E-09	7.40E-08	1.32E-08	1.32E-08	7.28E-09	1.13E-07	3.00E-09	4.00E-08	5.89E-09	5.89E-09	2.92E-09	5.77E-08
870	257837.44	4084693.28	3.313E-08	4.43E-07	7.73E-08	7.73E-08	4.31E-08	6.73E-07	5.03E-09	6.74E-08	1.21E-08	1.21E-08	6.63E-09	1.03E-07	2.73E-09	3.65E-08	5.37E-09	5.37E-09	2.66E-09	5.26E-08
871	257813.11	4084694.28	3.0003E-08	4.01E-07	7.00E-08	7.00E-08	3.90E-08	6.10E-07	4.55E-09	6.11E-08	1.09E-08	1.09E-08	6.01E-09	9.35E-08	2.47E-09	3.30E-08	4.86E-09	4.86E-09	2.41E-09	4.76E-08
872	257788.78	4084695.28	2.7024E-08	3.61E-07	6.30E-08	6.30E-08	3.52E-08	5.49E-07	4.10E-09	5.50E-08	9.84E-09	9.84E-09	5.41E-09	8.42E-08	2.23E-09	2.98E-08	4.38E-09	4.38E-09	2.17E-09	4.29E-08
873	257764.45	4084696.28	2.4247E-08	3.24E-07	5.66E-08	5.66E-08	3.15E-08	4.93E-07	3.68E-09	4.93E-08	8.83E-09	8.83E-09	4.86E-09	7.55E-08	2.00E-09	2.67E-08	3.93E-09	3.93E-09	1.95E-09	3.85E-08
874	257740.12	4084697.28	2.1712E-08	2.90E-07	5.07E-08	5.07E-08	2.82E-08	4.41E-07	3.30E-09	4.42E-08	7.91E-09	7.91E-09	4.35E-09	6.76E-08	1.79E-09	2.39E-08	3.52E-09	3.52E-09	1.74E-09	3.45E-08
875	257715.78	4084698.28	1.9447E-08	2.60E-07	4.54E-08	4.54E-08	2.53E-08	3.95E-07	2.95E-09	3.96E-08	7.08E-09	7.08E-09	3.89E-09	6.06E-08	1.60E-09	2.14E-08	3.15E-09	3.15E-09	1.56E-09	3.09E-08
876	257691.45	4084699.28	1.7461E-08	2.33E-07	4.07E-08	4.07E-08	2.27E-08	3.55E-07	2.65E-09	3.55E-08	6.36E-09	6.36E-09	3.50E-09	5.44E-08	1.44E-09	1.92E-08	2.83E-09	2.83E-09	1.40E-09	2.77E-08
877	257667.12	4084700.28	1.5749E-08	2.10E-07	3.67E-08	3.67E-08	2.05E-08	3.20E-07	2.39E-09	3.20E-08	5.74E-09	5.74E-09	3.15E-09	4.91E-08	1.30E-09	1.73E-08	2.55E-09	2.55E-09	1.26E-09	2.50E-08
878	257642.79	4084701.28	1.4285E-08	1.91E-07	3.33E-08	3.33E-08	1.86E-08	2.90E-07	2.17E-09	2.91E-08	5.20E-09	5.20E-09	2.86E-09	4.45E-08	1.18E-09	1.57E-08	2.32E-09	2.32E-09	1.15E-09	2.27E-08
879	257618.46	4084702.28	1.3043E-08	1.74E-07	3.04E-08	3.04E-08	1.70E-08	2.65E-07	1.98E-09	2.65E-08	4.75E-09	4.75E-09	2.61E-09	4.06E-08	1.08E-09	1.44E-08	2.11E-09	2.11E-09	1.05E-09	2.07E-08
880	257594.12	4084703.28	1.1984E-08	1.60E-07	2.80E-08	2.80E-08	1.56E-08	2.44E-07	1.82E-09	2.44E-08	4.37E-09	4.37E-09	2.40E-09	3.73E-08	9.88E-10	1.32E-08	1.94E-09	1.94E-09	9.61E-10	1.90E-08
881	257569.79	4084704.28	1.1078E-08	1.48E-07	2.58E-08	2.58E-08	1.44E-08	2.25E-07	1.68E-09	2.25E-08	4.04E-09	4.04E-09	2.22E-09	3.45E-08	9.13E-10	1.22E-08	1.80E-09	1.80E-09	8.89E-10	1.76E-08
882	257545.46	4084705.28	1.0299E-08	1.38E-07	2.40E-08	2.40E-08	1.34E-08	2.09E-07	1.56E-09	2.10E-08	3.75E-09	3.75E-09	2.06E-09	3.21E-08	8.49E-10	1.13E-08	1.67E-09	1.67E-09	8.26E-10	1.64E-08
883	258368.04	4084630.34	6.1424E-08	8.20E-07	1.43E-07	1.43E-07	7.99E-08	1.25E-06	9.32E-09	1.25E-07	2.24E-08	2.24E-08	1.23E-08	1.91E-07	5.06E-09	6.76E-08	9.95E-09	9.95E-09	4.93E-09	9.75E-08
884	258389.73	4084638.37	6.4306E-08	8.59E-07	1.50E-07	1.50E-07	8.36E-08	1.31E-06	9.76E-09	1.31E-07	2.34E-08	2.34E-08	1.29E-08	2.00E-07	5.30E-09	7.08E-08	1.04E-08	1.04E-08	5.16E-09	1.02E-07
885	258411.42	4084646.4	6.7078E-08	8.96E-07	1.56E-07	1.56E-07	8.72E-08	1.36E-06	1.02E-08	1.36E-07	2.44E-08	2.44E-08	1.34E-08	2.09E-07	5.53E-09	7.39E-08	1.09E-08	1.09E-08	5.38E-09	1.07E-07
886	258433.11	4084654.43	6.9687E-08	9.31E-07	1.63E-07	1.63E-07	9.06E-08	1.42E-06	1.06E-08	1.42E-07	2.54E-08	2.54E-08	1.40E-08	2.17E-07	5.74E-09	7.67E-08	1.13E-08	1.13E-08	5.59E-09	1.11E-07
887	258454.79	4084662.46	7.2057E-08	9.63E-07	1.68E-07	1.68E-07	9.37E-08	1.46E-06	1.09E-08	1.47E-07	2.62E-08	2.62E-08	1.44E-08	2.24E-07	5.94E-09	7.93E-08	1.17E-08	1.17E-08	5.78E-09	1.14E-07
888	258476.48	4084670.49	7.4091E-08	9.90E-07	1.73E-07	1.73E-07	9.64E-08	1.51E-06	1.12E-08	1.51E-07	2.70E-08	2.70E-08	1.48E-08	2.31E-07	6.11E-09	8.16E-08	1.20E-08	1.20E-08	5.94E-09	1.18E-07
889	258498.17	4084678.52	7.5667E-08	1.01E-06	1.77E-07	1.77E-07	9.84E-08	1.54E-06	1.15E-08	1.54E-07	2.76E-08	2.76E-08	1.52E-08	2.36E-07	6.24E-09	8.33E-08	1.23E-08	1.23E-08	6.07E-09	1.20E-07
890	258519.86	4084686.55	7.6655E-08	1.02E-06	1.79E-07	1.79E-07	9.97E-08	1.56E-06	1.16E-08	1.56E-07	2.79E-08	2.79E-08	1.54E-08	2.39E-07	6.32E-09	8.44E-08	1.24E-08	1.24E-08	6.15E-09	1.22E-07
891	258541.54	4084694.58	7.6928E-08	1.03E-06	1.79E-07	1.79E-07	1.00E-07	1.56E-06	1.17E-08	1.57E-07	2.80E-08	2.80E-08	1.54E-08	2.40E-07	6.34E-09	8.47E-08	1.25E-08	1.25E-08	6.17E-09	1.22E-07
892	258572.76	4084723.68	8.0164E-08	1.07E-06	1.87E-07	1.87E-07	1.04E-07	1.63E-06	1.22E-08	1.63E-07	2.92E-08	2.92E-08	1.61E-08	2.50E-07	6.61E-09	8.83E-08	1.30E-08	1.30E-08	6.43E-09	1.27E-07
893	258582.29	4084744.75	8.3101E-08	1.11E-06	1.94E-07	1.94E-07	1.08E-07	1.69E-06	1.26E-08	1.69E-07	3.03E-08	3.03E-08	1.66E-08	2.59E-07	6.85E-09	9.15E-08	1.35E-08	1.35E-08	6.67E-09	1.32E-07
894	258591.83	4084765.82	8.4575E-08	1.13E-06	1.97E-07	1.97E-07	1.10E-07	1.72E-06	1.28E-08	1.72E-07	3.08E-08	3.08E-08	1.69E-08	2.63E-07	6.97E-09	9.31E-08	1.37E-08	1.37E-08	6.79E-09	1.34E-07
895	258601.36	4084786.89	8.4983E-08	1.14E-06	1.98E-07	1.98E-07	1.11E-07	1.73E-06	1.29E-08	1.73E-07	3.10E-08	3.10E-08	1.70E-08	2.65E-07	7.01E-09	9.36E-08	1.38E-08	1.38E-08	6.82E-09	1.35E-07
896	258610.89	4084807.96	8.3874E-08	1.12E-06	1.96E-07	1.96E-07	1.09E-07	1.70E-06	1.27E-08	1.71E-07	3.06E-08	3.06E-08	1.68E-08	2.61E-07	6.91E-09	9.23E-08	1.36E-08	1.36E-08	6.73E-09	1.33E-07
897	258620.42	4084829.03	8.1265E-08	1.09E-06	1.90E-07	1.90E-07	1.06E-07	1.65E-06	1.23E-08	1.65E-07	2.96E-08	2.96E-08	1.63E-08	2.53E-07	6.70E-09	8.95E-08	1.32E-08	1.32E-08	6.52E-09	1.29E-07
898	258629.96	4084850.1	7.7323E-08	1.03E-06	1.80E-07	1.80E-07	1.01E-07	1.57E-06	1.17E-08	1.57E-07	2.82E-08	2.82E-08	1.55E-08	2.41E-07	6.37E-09	8.51E-08	1.25E-08	1.25E-08	6.20E-09	1.23E-07
899	258639.49	4084871.17	7.2343E-08	9.66E-07	1.69E-07	1.69E-07	9.41E-08	1.47E-06	1.10E-08	1.47E-07	2.64E-08	2.64E-08	1.45E-08	2.25E-07	5.96E-09	7.97E-08	1.17E-08	1.17E-08	5.80E-09	1.15E-07
900	258649.02	4084892.24	6.6678E-08	8.91E-07	1.56E-07	1.56E-07	8.67E-08	1.36E-06	1.01E-08	1.36E-07	2.43E-08	2.43E-08	1.34E-08	2.08E-07	5.50E-09	7.34E-08	1.08E-08	1.08E-08	5.35E-09	1.06E-07
901	258346.36	4084622.31	5.8474E-08	7.81E-07	1.36E-07	1.36E-07	7.61E-08	1.19E-06	8.87E-09	1.19E-07	2.13E-08	2.13E-08	1.17E-08	1.82E-07	4.82E-09	6.44E-08	9.48E-09	9.48E-09	4.69E-09	9.28E-08
902	258322.03	4084623.31	5.7898E-08	7.73E-07	1.35E-07	1.35E-07	7.53E-08	1.18E-06	8.79E-09	1.18E-07	2.11E-08	2.11E-08	1.16E-08	1.80E-07	4.77E-09	6.37E-08	9.38E-09	9.38E-09	4.64E-09	9.19E-08
903	258297.69	4084624.31	5.7198E-08	7.64E-07	1.33E-07	1.33E-07	7.44E-08	1.16E-06	8.68E-09	1.16E-07	2.08E-08	2.08E-08	1.15E-08	1.78E-07	4.71E-09	6.30E-08	9.27E-09	9.27E-09	4.59E-09	9.08E-08
904	258273.36	4084625.31	5.6362E-08	7.53E-07	1.31E-07	1.31E-07	7.33E-08	1.15E-06	8.55E-09	1.15E-07	2.05E-08	2.05E-08	1.13E-08	1.76E-07	4.65E-09	6.21E-08	9.13E-09	9.13E-09	4.52E-09	8.95E-08
905	258249.03	4084626.31	5.5358E-08	7.39E-07	1.29E-07	1.29E-07	7.20E-08	1.13E-06	8.40E-09	1.13E-07	2.02E-08	2.02E-08	1.11E-08	1.72E-07	4.56E-09	6.10E-08	8.97E-09	8.97E-09	4.44E-09	8.79E-08
906	258224.7	4084627.31	5.4259E-08	7.25E-07	1.27E-07	1.27E-07	7.06E-08	1.10E-06	8.23E-09	1.10E-07	1.98E-08	1.98E-08	1.09E-08	1.69E-07	4.47E-09	5.97E-08	8.79E-09	8.79E-09	4.35E-09	8.62E-08
907	258200.37	4084628.32	5.3009E-08	7.08E-07	1.24E-07	1.24E-07	6.89E-08	1.08E-06	8.05E-09	1.08E-07	1.93E-08	1.93E-08	1.06E-08	1.65E-07	4.37E-09	5.84E-08	8.59E-09	8.59E-09	4.25E-09	8.42E-08
908	258176.03	4084629.32	5.1624E-08	6.90E-07	1.20E-07	1.20E-07	6.71E-08	1.05E-06	7.83E-09	1.05E-07	1.88E-08	1.88E-08	1.03E-08	1.61E-07	4.26E-09	5.68E-08	8.37E-09	8.37E-09	4.14E-09	8.20E-08
909	258151.7	4084630.32	5.0117E-08	6.69E-07	1.17E-07	1.17E-07	6.52E-08	1.02E-06	7.61E-09	1.02E-07	1.83E-08	1.83E-08	1.00E-08	1.56E-07	4.13E-09	5.52E-08	8.12E-09	8.12E-09	4.02E-09	7.96E-08
910	258127.37	4084631.32	4.849E-08	6.48E-07	1.13E-07	1.13E-07	6.31E-08	9.86E-07	7.36E-09	9.87E-08	1.77E-08	1.77E-08	9.71E-09	1.51E-07	4.00E-09	5.34E-08	7.86E-09	7.86E-09	3.89E-09	7.70E-08
911	258103.04	4084632.32	4.6695E-08	6.24E-07	1.09E-07	1.09E-07	6.07E-08	9.49E-07	7.09E-09	9.50E-08	1.70E-08	1.70E-08	9.35E-09	1.45E-07	3.85E-09	5.14E-08	7.57E-09	7.57E-09	3.75E-09	7.41E-08
912	258078.71	4084633.32	4.4822E-08	5.99E-07	1.05E-07	1.05E-07	5.83E-08	9.11E-07	6.80E-09	9.12E-08	1.63E-08	1.63E-08	8.98E-09	1.40E-07	3.69E-09	4.94E-08	7.26E-09	7.26E-09	3.60E-09	7.12E-08
913	258054.38	4084634.32	4.2842E-08	5.72E-07	1.00E-07	1.00E-07	5.57E-08	8.71E-07	6.50E-09	8.72E-08	1.56E-08	1.56E-08	8.58E-09	1.33E-07	3.53E-09	4.72E-08	6.94E-09	6.94E-09	3.44E-09	6.80E-08
914	258030.04	4084635.32	4.0773E-08	5.45E-07	9.51E-08	9.51E-08	5.30E-08	8.29E-07	6.19E-09	8.30E-08	1.49E-08	1.49E-08	8.17E-09	1.27E-07	3.36E-09	4.49E-08	6.61E-09	6.61E-09	3.27E-09	6.47E-08
915	258005.71	4084636.32	3.8636E-08	5.16E-07	9.01E-08	9.01E-08	5.03E-08	7.85E-07	5.86E-09	7.86E-08	1.41E-08	1.41E-08	7.74E-09	1.20E-07	3.18E-09	4.25E-08	6.26E-09	6.26E-09	3.10E-09	6.13E-08
916	257981.38	4084637.32	3.6384E-08	4.86E-07	8.49E-08	8.49E-08	4.73E-08	7.39E-07	5.52E-09	7.40E-08	1.33E-08	1.33E-08	7.29E-09	1.13E-07	3.00E-09	4.01E-08	5.90E-09	5.90E-09	2.92E-09	5.78E-08
917	257957.05	4084638.32	3.4075E-08	4.55E-07	7.95E-08	7.95E-08	4.43E-08	6.93E-07	5.17E-09	6.93E-08	1.24E-08	1.24E-08	6.82E-09	1.06E-07	2.81E-09	3.75E-08	5.52E-09	5.52E-09	2.73E-09	5.41E-08
918	257932.72	4084639.32	3.1738E-08	4.24E-07	7.40E-08	7.40E-08	4.13E-08	6.45E-07	4.82E-09	6.46E-08	1.16E-08	1.16E-08	6.36E-09	9.89E-08	2.62E-09	3.49E-08	5.14E-09	5.14E-09	2.55E-09	5.04E-08
919	257908.38	4084640.32	2.9398E-08	3.93E-07	6.86E-08	6.86E-08	3.82E-08	5.97E-07	4.46E-09	5.98E-08	1.07E-08	1.07E-08	5.89E-09	9.16E-08	2.42E-09	3.24E-08	4.76E-09	4.76E-09	2.36E-09	4.67E-08
920	257884.05	4084641.32	2.7088E-08	3.62E-07	6.32E-08	6.32E-08	3.52E-08	5.51E-07	4.11E-09	5.51E-08	9.87E-09	9.87E-09	5.42E-09	8.44E-08	2.23E-09	2.98E-08	4.39E-09	4.39E-09	2.17E-09	4.30E-08
921	257859.72	4084642.32	2.4841E-08	3.32E-07	5.80E-08	5.80E-08	3.23E-08	5.05E-07	3.77E-09	5.05E-08	9.05E-09	9.05E-09	4.97E-09	7.74E-08	2.05E-09	2.74E-08	4.03E-09	4.03E-09	1.99E-09	3.94E-08
922	257835.39	4084643.32	2.2689E-08	3.03E-07	5.29E-08	5.29E-08	2.95E-08	4.61E-07	3.44E-09	4.62E-08	8.27E-09	8.27E-09	4.54E-09	7.07E-08	1.87E-09	2.50E-08	3.68E-09	3.68E-09	1.82E-09	3.60E-08
923	257811.06	4084644.32	2.0663E-08	2.76E-07	4.82E-08	4.82E-08	2.69E-08	4.20E-07	3.14E-09	4.20E-08	7.53E-09	7.53E-09	4.14E-09	6.44E-08	1.70E-09	2.28E-08	3.35E-09	3.35E-09	1.66E-09	3.28E-08
924	257786.73	4084645.32	1.8782E-08	2.51E-07	4.38E-08	4.38E-08	2.44E-08	3.82E-07	2.85E-09	3.82E-08	6.84E-09	6.84E-09	3.76E-09	5.85E-08	1.55E-09	2.07E-08	3.04E-09	3.04E-09	1.51E-09	2.98E-08
925	257762.39	4084646.32	1.7066E-08	2.28E-07	3.98E-08	3.98E-08	2.22E-08	3.47E-07	2.59E-09	3.47E-08	6.22E-09	6.22E-09	3.42E-09	5.32E-08	1.41E-09	1.88E-08	2.77E-09	2.77E-09	1.37E-09	2.71E-08
926	257738.06	4084647.32	1.5521E-08	2.07E-07	3.62E-08	3.62E-08	2.02E-08	3.15E-07	2.36E-09	3.16E-08	5.65E-09	5.65E-09	3.11E-09	4.84E-08	1.28E-09	1.71E-08	2.52E-09	2.52E-09	1.25E-09	2.46E-08
927	257713.73	4084648.32	1.4149E-08	1.89E-07	3.30E-08	3.30E-08	1.84E-08	2.88E-07	2.15E-09	2.88E-08	5.15E-09	5.15E-09	2.83E-09	4.41E-08	1.17E-09	1.56E-08	2.29E-09	2.29E-09	1.14E-09	2.25E-08
928	257689.4	4084649.32	1.2937E-08	1.73E-07	3.02E-08	3.02E-08	1.68E-08	2.63E-07	1.96E-09	2.63E-08	4.71E-09	4.71E-09	2.59E-09	4.03E-08	1.07E-09	1.42E-08	2.10E-09	2.10E-09	1.04E-09	2.05E-08
929	257665.07	4084650.32	1.188E-08	1.59E-07	2.77E-08	2.77E-08	1.55E-08	2.41E-07	1.80E-09	2.42E-08	4.33E-09	4.33E-09	2.38E-09	3.70E-08	9.79E-10	1.31E-08	1.93E-09	1.93E-09	9.53E-10	1.89E-08
930	257640.73	4084651.32	1.0962E-08	1.46E-07	2.56E-08	2.56E-08	1.43E-08	2.23E-07	1.66E-09	2.23E-08	3.99E-09	3.99E-09	2.20E-09	3.42E-08	9.04E-10	1.21E-08	1.78E-09	1.78E-09	8.79E-10	1.74E-08
931	257616.4	4084652.32	1.0164E-08	1.36E-07	2.37E-08	2.37E-08	1.32E-08	2.07E-07	1.54E-09	2.07E-08	3.70E-09	3.70E-09	2.04E-09	3.17E-08	8.38E-10	1.12E-08	1.65E-09	1.65E-09	8.15E-10	1.61E-08
932	257592.07	4084653.32	9.4677E-09	1.26E-07	2.21E-08	2.21E-08	1.23E-08	1.92E-07	1.44E-09	1.93E-08	3.45E-09	3.45E-09	1.90E-09	2.95E-08	7.80E-10	1.04E-08	1.53E-09	1.53E-09	7.60E-10	1.50E-08
933	257567.74	4084654.32	8.8537E-09	1.18E-07	2.07E-08	2.07E-08	1.15E-08	1.80E-07	1.34E-09	1.80E-08	3.23E-09	3.23E-09	1.77E-09	2.76E-08	7.30E-10	9.75E-09	1.43E-09	1.43E-09	7.10E-10	1.41E-08
934	257543.41	4084655.32	8.3125E-09	1.11E-07	1.94E-08	1.94E-08	1.08E-08	1.69E-07	1.26E-09	1.69E-08	3.03E-09	3.03E-09	1.66E-09	2.59E-08	6.85E-10	9.15E-09	1.35E-09	1.35E-09	6.67E-10	1.32E-08
935	258364.49	4084530.63	3.8789E-08	5.18E-07	9.05E-08	9.05E-08	5.05E-08	7.88E-07	5.89E-09	7.89E-08	1.41E-08	1.41E-08	7.77E-09	1.21E-07	3.20E-09	4.27E-08	6.29E-09	6.29E-09	3.11E-09	6.16E-08
936	258386.74	4084538.87	4.0917E-08	5.47E-07	9.55E-08	9.55E-08	5.32E-08	8.32E-07	6.21E-09	8.33E-08	1.49E-08	1.49E-08	8.19E-09	1.27E-07	3.37E-09	4.51E-08	6.63E-09	6.63E-09	3.28E-09	6.50E-08
937	258408.98	4084547.1	4.3013E-08	5.75E-07	1.00E-07	1.00E-07	5.59E-08	8.74E-07	6.53E-09	8.75E-08	1.57E-08	1.57E-08	8.61E-09	1.34E-07	3.55E-09	4.74E-08	6.97E-09	6.97E-09	3.45E-09	6.83E-08
938	258431.22	4084555.34	4.5055E-08	6.02E-07	1.05E-07	1.05E-07	5.86E-08	9.16E-07	6.84E-09	9.17E-08	1.64E-08	1.64E-08	9.02E-09	1.40E-07	3.71E-09	4.96E-08	7.30E-09	7.30E-09	3.61E-09	7.15E-08
939	258453.47	4084563.57	4.7012E-08	6.28E-07	1.10E-07	1.10E-07	6.11E-08	9.55E-07	7.13E-09	9.57E-08	1.71E-08	1.71E-08	9.42E-09	1.46E-07	3.88E-09	5.18E-08	7.62E-09	7.62E-09	3.77E-09	7.46E-08
940	258475.71	4084571.81	4.8858E-08	6.53E-07	1.14E-07	1.14E-07	6.36E-08	9.93E-07	7.42E-09	9.94E-08	1.78E-08	1.78E-08	9.78E-09	1.52E-07	4.03E-09	5.38E-08	7.92E-09	7.92E-09	3.92E-09	7.76E-08
941	258497.95	4084580.04	5.0547E-08	6.75E-07	1.18E-07	1.18E-07	6.57E-08	1.03E-06	7.67E-09	1.03E-07	1.84E-08	1.84E-08	1.01E-08	1.57E-07	4.17E-09	5.57E-08	8.19E-09	8.19E-09	4.06E-09	8.03E-08
942	258520.2	4084588.28	5.2043E-08	6.95E-07	1.21E-07	1.21E-07	6.77E-08	1.06E-06	7.90E-09	1.06E-07	1.90E-08	1.90E-08	1.04E-08	1.62E-07	4.29E-09	5.73E-08	8.43E-09	8.43E-09	4.18E-09	8.26E-08
943	258542.44	4084596.52	5.3286E-08	7.12E-07	1.24E-07	1.24E-07	6.93E-08	1.08E-06	8.09E-09	1.08E-07	1.94E-08	1.94E-08	1.07E-08	1.66E-07	4.39E-09	5.87E-08	8.64E-09	8.64E-09	4.27E-09	8.46E-08
944	258564.68	4084604.75	5.4221E-08	7.24E-07	1.27E-07	1.27E-07	7.05E-08	1.10E-06	8.23E-09	1.10E-07	1.98E-08	1.98E-08	1.09E-08	1.69E-07	4.47E-09	5.97E-08	8.79E-09	8.79E-09	4.35E-09	8.61E-08
945	258586.93	4084612.99	5.4789E-08	7.32E-07	1.28E-07	1.28E-07	7.13E-08	1.11E-06	8.32E-09	1.11E-07	2.00E-08	2.00E-08	1.10E-08	1.71E-07	4.52E-09	6.03E-08	8.88E-09	8.88E-09	4.40E-09	8.70E-08
946	258609.17	4084621.22	5.4939E-08	7.34E-07	1.28E-07	1.28E-07	7.15E-08	1.12E-06	8.34E-09	1.12E-07	2.00E-08	2.00E-08	1.10E-08	1.71E-07	4.53E-09	6.05E-08	8.90E-09	8.90E-09	4.41E-09	8.72E-08
947	258641.19	4084651.07	5.6972E-08	7.61E-07	1.33E-07	1.33E-07	7.41E-08	1.16E-06	8.65E-09	1.16E-07	2.08E-08	2.08E-08	1.14E-08	1.77E-07	4.70E-09	6.27E-08	9.23E-09	9.23E-09	4.57E-09	9.05E-08
948	258650.97	4084672.68	5.8858E-08	7.86E-07	1.37E-07	1.37E-07	7.66E-08	1.20E-06	8.93E-09	1.20E-07	2.14E-08	2.14E-08	1.18E-08	1.83E-07	4.85E-09	6.48E-08	9.54E-09	9.54E-09	4.72E-09	9.35E-08
949	258660.74	4084694.29	6.0075E-08	8.02E-07	1.40E-07	1.40E-07	7.81E-08	1.22E-06	9.12E-09	1.22E-07	2.19E-08	2.19E-08	1.20E-08	1.87E-07	4.95E-09	6.61E-08	9.74E-09	9.74E-09	4.82E-09	9.54E-08
950	258670.52	4084715.9	6.0567E-08	8.09E-07	1.41E-07	1.41E-07	7.88E-08	1.23E-06	9.19E-09	1.23E-07	2.21E-08	2.21E-08	1.21E-08	1.89E-07	4.99E-09	6.67E-08	9.82E-09	9.82E-09	4.86E-09	9.62E-08
951	258680.3	4084737.51	6.039E-08	8.07E-07	1.41E-07	1.41E-07	7.85E-08	1.23E-06	9.17E-09	1.23E-07	2.20E-08	2.20E-08	1.21E-08	1.88E-07	4.98E-09	6.65E-08	9.79E-09	9.79E-09	4.84E-09	9.59E-08
952	258690.07	4084759.12	5.9397E-08	7.93E-07	1.39E-07	1.39E-07	7.73E-08	1.21E-06	9.01E-09	1.21E-07	2.16E-08	2.16E-08	1.19E-08	1.85E-07	4.90E-09	6.54E-08	9.63E-09	9.63E-09	4.77E-09	9.43E-08
953	258699.85	4084780.73	5.7615E-08	7.70E-07	1.34E-07	1.34E-07	7.49E-08	1.17E-06	8.74E-09	1.17E-07	2.10E-08	2.10E-08	1.15E-08	1.80E-07	4.75E-09	6.34E-08	9.34E-09	9.34E-09	4.62E-09	9.15E-08
954	258709.63	4084802.34	5.5139E-08	7.37E-07	1.29E-07	1.29E-07	7.17E-08	1.12E-06	8.37E-09	1.12E-07	2.01E-08	2.01E-08	1.10E-08	1.72E-07	4.55E-09	6.07E-08	8.94E-09	8.94E-09	4.42E-09	8.76E-08
955	258719.4	4084823.95	5.21E-08	6.96E-07	1.22E-07	1.22E-07	6.78E-08	1.06E-06	7.91E-09	1.06E-07	1.90E-08	1.90E-08	1.04E-08	1.62E-07	4.29E-09	5.74E-08	8.44E-09	8.44E-09	4.18E-09	8.27E-08
956	258729.18	4084845.56	4.8663E-08	6.50E-07	1.14E-07	1.14E-07	6.33E-08	9.89E-07	7.39E-09	9.90E-08	1.77E-08	1.77E-08	9.75E-09	1.52E-07	4.01E-09	5.36E-08	7.89E-09	7.89E-09	3.90E-09	7.73E-08
957	258738.96	4084867.17	4.501E-08	6.01E-07	1.05E-07	1.05E-07	5.85E-08	9.15E-07	6.83E-09	9.16E-08	1.64E-08	1.64E-08	9.01E-09	1.40E-07	3.71E-09	4.96E-08	7.29E-09	7.29E-09	3.61E-09	7.15E-08
958	258748.73	4084888.78	4.1306E-08	5.52E-07	9.64E-08	9.64E-08	5.37E-08	8.40E-07	6.27E-09	8.41E-08	1.50E-08	1.50E-08	8.27E-09	1.29E-07	3.40E-09	4.55E-08	6.69E-09	6.69E-09	3.31E-09	6.56E-08
959	258342.25	4084522.4	3.6674E-08	4.90E-07	8.56E-08	8.56E-08	4.77E-08	7.45E-07	5.57E-09	7.46E-08	1.34E-08	1.34E-08	7.34E-09	1.14E-07	3.02E-09	4.04E-08	5.94E-09	5.94E-09	2.94E-09	5.82E-08
960	258317.92	4084523.4	3.593E-08	4.80E-07	8.38E-08	8.38E-08	4.67E-08	7.30E-07	5.45E-09	7.31E-08	1.31E-08	1.31E-08	7.20E-09	1.12E-07	2.96E-09	3.96E-08	5.82E-09	5.82E-09	2.88E-09	5.71E-08
961	258293.59	4084524.4	3.5103E-08	4.69E-07	8.19E-08	8.19E-08	4.57E-08	7.13E-07	5.33E-09	7.14E-08	1.28E-08	1.28E-08	7.03E-09	1.09E-07	2.89E-09	3.87E-08	5.69E-09	5.69E-09	2.82E-09	5.57E-08
962	258269.25	4084525.4	3.4194E-08	4.57E-07	7.98E-08	7.98E-08	4.45E-08	6.95E-07	5.19E-09	6.96E-08	1.25E-08	1.25E-08	6.85E-09	1.07E-07	2.82E-09	3.76E-08	5.54E-09	5.54E-09	2.74E-09	5.43E-08
963	258244.92	4084526.4	3.3206E-08	4.44E-07	7.75E-08	7.75E-08	4.32E-08	6.75E-07	5.04E-09	6.76E-08	1.21E-08	1.21E-08	6.65E-09	1.03E-07	2.74E-09	3.66E-08	5.38E-09	5.38E-09	2.66E-09	5.27E-08
964	258220.59	4084527.4	3.2144E-08	4.29E-07	7.50E-08	7.50E-08	4.18E-08	6.53E-07	4.88E-09	6.54E-08	1.17E-08	1.17E-08	6.44E-09	1.00E-07	2.65E-09	3.54E-08	5.21E-09	5.21E-09	2.58E-09	5.10E-08
965	258196.26	4084528.4	3.1016E-08	4.14E-07	7.24E-08	7.24E-08	4.03E-08	6.30E-07	4.71E-09	6.31E-08	1.13E-08	1.13E-08	6.21E-09	9.66E-08	2.56E-09	3.42E-08	5.03E-09	5.03E-09	2.49E-09	4.92E-08
966	258171.93	4084529.4	2.983E-08	3.98E-07	6.96E-08	6.96E-08	3.88E-08	6.06E-07	4.53E-09	6.07E-08	1.09E-08	1.09E-08	5.97E-09	9.29E-08	2.46E-09	3.28E-08	4.83E-09	4.83E-09	2.39E-09	4.74E-08
967	258147.59	4084530.4	2.8591E-08	3.82E-07	6.67E-08	6.67E-08	3.72E-08	5.81E-07	4.34E-09	5.82E-08	1.04E-08	1.04E-08	5.73E-09	8.91E-08	2.36E-09	3.15E-08	4.63E-09	4.63E-09	2.29E-09	4.54E-08
968	258123.26	4084531.4	2.7312E-08	3.65E-07	6.37E-08	6.37E-08	3.55E-08	5.55E-07	4.15E-09	5.56E-08	9.95E-09	9.95E-09	5.47E-09	8.51E-08	2.25E-09	3.01E-08	4.43E-09	4.43E-09	2.19E-09	4.34E-08
969	258098.93	4084532.4	2.5996E-08	3.47E-07	6.07E-08	6.07E-08	3.38E-08	5.28E-07	3.95E-09	5.29E-08	9.47E-09	9.47E-09	5.21E-09	8.10E-08	2.14E-09	2.86E-08	4.21E-09	4.21E-09	2.09E-09	4.13E-08
970	258074.6	4084533.4	2.4653E-08	3.29E-07	5.75E-08	5.75E-08	3.21E-08	5.01E-07	3.74E-09	5.02E-08	8.98E-09	8.98E-09	4.94E-09	7.68E-08	2.03E-09	2.71E-08	4.00E-09	4.00E-09	1.98E-09	3.91E-08
971	258050.27	4084534.4	2.3294E-08	3.11E-07	5.43E-08	5.43E-08	3.03E-08	4.73E-07	3.54E-09	4.74E-08	8.49E-09	8.49E-09	4.67E-09	7.26E-08	1.92E-09	2.56E-08	3.78E-09	3.78E-09	1.87E-09	3.70E-08
972	258025.94	4084535.4	2.1927E-08	2.93E-07	5.12E-08	5.12E-08	2.85E-08	4.46E-07	3.33E-09	4.46E-08	7.99E-09	7.99E-09	4.39E-09	6.83E-08	1.81E-09	2.41E-08	3.55E-09	3.55E-09	1.76E-09	3.48E-08
973	258001.6	4084536.4	2.0566E-08	2.75E-07	4.80E-08	4.80E-08	2.68E-08	4.18E-07	3.12E-09	4.19E-08	7.49E-09	7.49E-09	4.12E-09	6.41E-08	1.70E-09	2.26E-08	3.33E-09	3.33E-09	1.65E-09	3.27E-08
974	257977.27	4084537.4	1.9221E-08	2.57E-07	4.48E-08	4.48E-08	2.50E-08	3.91E-07	2.92E-09	3.91E-08	7.00E-09	7.00E-09	3.85E-09	5.99E-08	1.58E-09	2.12E-08	3.12E-09	3.12E-09	1.54E-09	3.05E-08
975	257952.94	4084538.4	1.7911E-08	2.39E-07	4.18E-08	4.18E-08	2.33E-08	3.64E-07	2.72E-09	3.64E-08	6.52E-09	6.52E-09	3.59E-09	5.58E-08	1.48E-09	1.97E-08	2.90E-09	2.90E-09	1.44E-09	2.84E-08
976	257928.61	4084539.4	1.6647E-08	2.22E-07	3.88E-08	3.88E-08	2.17E-08	3.38E-07	2.53E-09	3.39E-08	6.06E-09	6.06E-09	3.33E-09	5.19E-08	1.37E-09	1.83E-08	2.70E-09	2.70E-09	1.34E-09	2.64E-08
977	257904.28	4084540.4	1.5441E-08	2.06E-07	3.60E-08	3.60E-08	2.01E-08	3.14E-07	2.34E-09	3.14E-08	5.62E-09	5.62E-09	3.09E-09	4.81E-08	1.27E-09	1.70E-08	2.50E-09	2.50E-09	1.24E-09	2.45E-08
978	257879.94	4084541.4	1.4305E-08	1.91E-07	3.34E-08	3.34E-08	1.86E-08	2.91E-07	2.17E-09	2.91E-08	5.21E-09	5.21E-09	2.86E-09	4.46E-08	1.18E-09	1.58E-08	2.32E-09	2.32E-09	1.15E-09	2.27E-08
979	257855.61	4084542.4	1.3249E-08	1.77E-07	3.09E-08	3.09E-08	1.72E-08	2.69E-07	2.01E-09	2.70E-08	4.83E-09	4.83E-09	2.65E-09	4.13E-08	1.09E-09	1.46E-08	2.15E-09	2.15E-09	1.06E-09	2.10E-08
980	257831.28	4084543.4	1.2276E-08	1.64E-07	2.86E-08	2.86E-08	1.60E-08	2.49E-07	1.86E-09	2.50E-08	4.47E-09	4.47E-09	2.46E-09	3.82E-08	1.01E-09	1.35E-08	1.99E-09	1.99E-09	9.85E-10	1.95E-08

981	257806.95	4084544.4	1.1385E-08	1.52E-07	2.66E-08	2.66E-08	1.48E-08	2.31E-07	1.73E-09	2.32E-08	4.15E-09	4.15E-09	2.28E-09	3.55E-08	9.38E-10	1.25E-08	1.85E-09	1.85E-09	9.13E-10	1.81E-08
982	257782.62	4084545.4	1.0577E-08	1.41E-07	2.47E-08	2.47E-08	1.38E-08	2.15E-07	1.61E-09	2.15E-08	3.85E-09	3.85E-09	2.12E-09	3.30E-08	8.72E-10	1.16E-08	1.71E-09	1.71E-09	8.49E-10	1.68E-08
983	257758.29	4084546.4	9.8485E-09	1.32E-07	2.30E-08	2.30E-08	1.28E-08	2.00E-07	1.49E-09	2.00E-08	3.59E-09	3.59E-09	1.97E-09	3.07E-08	8.12E-10	1.08E-08	1.60E-09	1.60E-09	7.90E-10	1.56E-08
984	257733.95	4084547.41	9.1926E-09	1.23E-07	2.14E-08	2.14E-08	1.20E-08	1.87E-07	1.40E-09	1.87E-08	3.35E-09	3.35E-09	1.84E-09	2.86E-08	7.58E-10	1.01E-08	1.49E-09	1.49E-09	7.37E-10	1.46E-08
985	257709.62	4084548.41	8.6059E-09	1.15E-07	2.01E-08	2.01E-08	1.12E-08	1.75E-07	1.31E-09	1.75E-08	3.13E-09	3.13E-09	1.72E-09	2.68E-08	7.09E-10	9.48E-09	1.39E-09	1.39E-09	6.90E-10	1.37E-08
986	257685.29	4084549.41	8.0811E-09	1.08E-07	1.89E-08	1.89E-08	1.05E-08	1.64E-07	1.23E-09	1.64E-08	2.94E-09	2.94E-09	1.62E-09	2.52E-08	6.66E-10	8.90E-09	1.31E-09	1.31E-09	6.48E-10	1.28E-08
987	257660.96	4084550.41	7.611E-09	1.02E-07	1.78E-08	1.78E-08	9.90E-09	1.55E-07	1.16E-09	1.55E-08	2.77E-09	2.77E-09	1.52E-09	2.37E-08	6.27E-10	8.38E-09	1.23E-09	1.23E-09	6.11E-10	1.21E-08
988	257636.63	4084551.41	7.1882E-09	9.60E-08	1.68E-08	1.68E-08	9.35E-09	1.46E-07	1.09E-09	1.46E-08	2.62E-09	2.62E-09	1.44E-09	2.24E-08	5.93E-10	7.91E-09	1.16E-09	1.16E-09	5.77E-10	1.14E-08
989	257612.29	4084552.41	6.8074E-09	9.09E-08	1.59E-08	1.59E-08	8.85E-09	1.38E-07	1.03E-09	1.39E-08	2.48E-09	2.48E-09	1.36E-09	2.12E-08	5.61E-10	7.50E-09	1.10E-09	1.10E-09	5.46E-10	1.08E-08
990	257587.96	4084553.41	6.4612E-09	8.63E-08	1.51E-08	1.51E-08	8.40E-09	1.31E-07	9.81E-10	1.31E-08	2.35E-09	2.35E-09	1.29E-09	2.01E-08	5.33E-10	7.11E-09	1.05E-09	1.05E-09	5.18E-10	1.03E-08
991	257563.63	4084554.41	6.146E-09	8.21E-08	1.43E-08	1.43E-08	7.99E-09	1.25E-07	9.33E-10	1.25E-08	2.24E-09	2.24E-09	1.23E-09	1.91E-08	5.07E-10	6.77E-09	9.96E-10	9.96E-10	4.93E-10	9.76E-09
992	257539.3	4084555.41	5.8545E-09	7.82E-08	1.37E-08	1.37E-08	7.62E-09	1.19E-07	8.89E-10	1.19E-08	2.13E-09	2.13E-09	1.17E-09	1.82E-08	4.83E-10	6.45E-09	9.49E-10	9.49E-10	4.70E-10	9.30E-09
993	258360.73	4084430.85	2.5183E-08	3.36E-07	5.88E-08	5.88E-08	3.28E-08	5.12E-07	3.82E-09	5.12E-08	9.17E-09	9.17E-09	5.04E-09	7.85E-08	2.08E-09	2.77E-08	4.08E-09	4.08E-09	2.02E-09	4.00E-08
994	258383.32	4084439.21	2.6781E-08	3.58E-07	6.25E-08	6.25E-08	3.48E-08	5.44E-07	4.06E-09	5.45E-08	9.76E-09	9.76E-09	5.36E-09	8.34E-08	2.21E-09	2.95E-08	4.34E-09	4.34E-09	2.15E-09	4.25E-08
995	258405.91	4084447.57	2.837E-08	3.79E-07	6.62E-08	6.62E-08	3.69E-08	5.77E-07	4.31E-09	5.77E-08	1.03E-08	1.03E-08	5.68E-09	8.84E-08	2.34E-09	3.12E-08	4.60E-09	4.60E-09	2.28E-09	4.50E-08
996	258428.51	4084455.94	2.9954E-08	4.00E-07	6.99E-08	6.99E-08	3.90E-08	6.09E-07	4.55E-09	6.10E-08	1.09E-08	1.09E-08	6.00E-09	9.33E-08	2.47E-09	3.30E-08	4.85E-09	4.85E-09	2.40E-09	4.76E-08
997	258451.1	4084464.3	3.149E-08	4.21E-07	7.35E-08	7.35E-08	4.10E-08	6.40E-07	4.78E-09	6.41E-08	1.15E-08	1.15E-08	6.31E-09	9.81E-08	2.60E-09	3.47E-08	5.10E-09	5.10E-09	2.53E-09	5.00E-08
998	258473.69	4084472.67	3.3006E-08	4.41E-07	7.70E-08	7.70E-08	4.29E-08	6.71E-07	5.01E-09	6.72E-08	1.20E-08	1.20E-08	6.61E-09	1.03E-07	2.72E-09	3.63E-08	5.35E-09	5.35E-09	2.65E-09	5.24E-08
999	258496.28	4084481.03	3.4476E-08	4.61E-07	8.04E-08	8.04E-08	4.48E-08	7.01E-07	5.23E-09	7.02E-08	1.26E-08	1.26E-08	6.90E-09	1.07E-07	2.84E-09	3.80E-08	5.59E-09	5.59E-09	2.77E-09	5.47E-08
1000	258518.87	4084489.39	3.5872E-08	4.79E-07	8.37E-08	8.37E-08	4.67E-08	7.29E-07	5.44E-09	7.30E-08	1.31E-08	1.31E-08	7.18E-09	1.12E-07	2.96E-09	3.95E-08	5.81E-09	5.81E-09	2.88E-09	5.70E-08
1001	258541.46	4084497.76	3.7173E-08	4.97E-07	8.67E-08	8.67E-08	4.84E-08	7.56E-07	5.64E-09	7.56E-08	1.35E-08	1.35E-08	7.44E-09	1.16E-07	3.06E-09	4.09E-08	6.02E-09	6.02E-09	2.98E-09	5.90E-08
1002	258564.05	4084506.12	3.8354E-08	5.12E-07	8.95E-08	8.95E-08	4.99E-08	7.80E-07	5.82E-09	7.80E-08	1.40E-08	1.40E-08	7.68E-09	1.19E-07	3.16E-09	4.22E-08	6.22E-09	6.22E-09	3.08E-09	6.09E-08
1003	258586.64	4084514.49	3.9385E-08	5.26E-07	9.19E-08	9.19E-08	5.12E-08	8.00E-07	5.98E-09	8.01E-08	1.43E-08	1.43E-08	7.89E-09	1.23E-07	3.25E-09	4.34E-08	6.38E-09	6.38E-09	3.16E-09	6.25E-08
1004	258609.23	4084522.85	4.0236E-08	5.37E-07	9.39E-08	9.39E-08	5.23E-08	8.18E-07	6.11E-09	8.19E-08	1.47E-08	1.47E-08	8.06E-09	1.25E-07	3.32E-09	4.43E-08	6.52E-09	6.52E-09	3.23E-09	6.39E-08
1005	258631.82	4084531.21	4.0874E-08	5.46E-07	9.54E-08	9.54E-08	5.32E-08	8.31E-07	6.20E-09	8.32E-08	1.49E-08	1.49E-08	8.19E-09	1.27E-07	3.37E-09	4.50E-08	6.62E-09	6.62E-09	3.28E-09	6.49E-08
1006	258654.41	4084539.58	4.1273E-08	5.51E-07	9.63E-08	9.63E-08	5.37E-08	8.39E-07	6.26E-09	8.40E-08	1.50E-08	1.50E-08	8.27E-09	1.29E-07	3.40E-09	4.54E-08	6.69E-09	6.69E-09	3.31E-09	6.55E-08
1007	258677.01	4084547.94	4.14E-08	5.53E-07	9.66E-08	9.66E-08	5.39E-08	8.41E-07	6.28E-09	8.42E-08	1.51E-08	1.51E-08	8.29E-09	1.29E-07	3.41E-09	4.56E-08	6.71E-09	6.71E-09	3.32E-09	6.57E-08
1008	258709.53	4084578.25	4.2709E-08	5.70E-07	9.96E-08	9.96E-08	5.56E-08	8.68E-07	6.48E-09	8.69E-08	1.56E-08	1.56E-08	8.55E-09	1.33E-07	3.52E-09	4.70E-08	6.92E-09	6.92E-09	3.43E-09	6.78E-08
1009	258719.46	4084600.2	4.402E-08	5.88E-07	1.03E-07	1.03E-07	5.73E-08	8.95E-07	6.68E-09	8.96E-08	1.60E-08	1.60E-08	8.82E-09	1.37E-07	3.63E-09	4.85E-08	7.13E-09	7.13E-09	3.53E-09	6.99E-08
1010	258729.38	4084622.15	4.5001E-08	6.01E-07	1.05E-07	1.05E-07	5.85E-08	9.15E-07	6.83E-09	9.16E-08	1.64E-08	1.64E-08	9.01E-09	1.40E-07	3.71E-09	4.95E-08	7.29E-09	7.29E-09	3.61E-09	7.15E-08
1011	258739.31	4084644.1	4.5593E-08	6.09E-07	1.06E-07	1.06E-07	5.93E-08	9.27E-07	6.92E-09	9.28E-08	1.66E-08	1.66E-08	9.13E-09	1.42E-07	3.76E-09	5.02E-08	7.39E-09	7.39E-09	3.66E-09	7.24E-08
1012	258749.24	4084666.05	4.5748E-08	6.11E-07	1.07E-07	1.07E-07	5.95E-08	9.30E-07	6.94E-09	9.31E-08	1.67E-08	1.67E-08	9.16E-09	1.43E-07	3.77E-09	5.04E-08	7.41E-09	7.41E-09	3.67E-09	7.26E-08
1013	258759.17	4084687.99	4.5434E-08	6.07E-07	1.06E-07	1.06E-07	5.91E-08	9.23E-07	6.90E-09	9.25E-08	1.66E-08	1.66E-08	9.10E-09	1.42E-07	3.75E-09	5.00E-08	7.36E-09	7.36E-09	3.64E-09	7.21E-08
1014	258769.1	4084709.94	4.4644E-08	5.96E-07	1.04E-07	1.04E-07	5.81E-08	9.07E-07	6.78E-09	9.08E-08	1.63E-08	1.63E-08	8.94E-09	1.39E-07	3.68E-09	4.92E-08	7.24E-09	7.24E-09	3.58E-09	7.09E-08
1015	258779.03	4084731.89	4.3399E-08	5.80E-07	1.01E-07	1.01E-07	5.64E-08	8.82E-07	6.59E-09	8.83E-08	1.58E-08	1.58E-08	8.69E-09	1.35E-07	3.58E-09	4.78E-08	7.03E-09	7.03E-09	3.48E-09	6.89E-08
1016	258788.96	4084753.84	4.175E-08	5.58E-07	9.74E-08	9.74E-08	5.43E-08	8.49E-07	6.34E-09	8.50E-08	1.52E-08	1.52E-08	8.36E-09	1.30E-07	3.44E-09	4.60E-08	6.77E-09	6.77E-09	3.35E-09	6.63E-08
1017	258798.89	4084775.79	3.9769E-08	5.31E-07	9.28E-08	9.28E-08	5.17E-08	8.08E-07	6.04E-09	8.09E-08	1.45E-08	1.45E-08	7.96E-09	1.24E-07	3.28E-09	4.38E-08	6.45E-09	6.45E-09	3.19E-09	6.31E-08
1018	258808.82	4084797.73	3.7537E-08	5.01E-07	8.76E-08	8.76E-08	4.88E-08	7.63E-07	5.70E-09	7.64E-08	1.37E-08	1.37E-08	7.52E-09	1.17E-07	3.09E-09	4.13E-08	6.08E-09	6.08E-09	3.01E-09	5.96E-08
1019	258818.75	4084819.68	3.5147E-08	4.69E-07	8.20E-08	8.20E-08	4.57E-08	7.14E-07	5.33E-09	7.15E-08	1.28E-08	1.28E-08	7.04E-09	1.10E-07	2.90E-09	3.87E-08	5.70E-09	5.70E-09	2.82E-09	5.58E-08
1020	258828.68	4084841.63	3.2696E-08	4.37E-07	7.63E-08	7.63E-08	4.25E-08	6.65E-07	4.96E-09	6.65E-08	1.19E-08	1.19E-08	6.55E-09	1.02E-07	2.70E-09	3.60E-08	5.30E-09	5.30E-09	2.62E-09	5.19E-08
1021	258838.61	4084863.58	3.0267E-08	4.04E-07	7.06E-08	7.06E-08	3.94E-08	6.15E-07	4.59E-09	6.16E-08	1.10E-08	1.10E-08	6.06E-09	9.43E-08	2.49E-09	3.33E-08	4.91E-09	4.91E-09	2.43E-09	4.81E-08
1022	258848.54	4084885.53	2.7917E-08	3.73E-07	6.51E-08	6.51E-08	3.63E-08	5.67E-07	4.24E-09	5.68E-08	1.02E-08	1.02E-08	5.59E-09	8.70E-08	2.30E-09	3.07E-08	4.52E-09	4.52E-09	2.24E-09	4.43E-08
1023	258338.14	4084422.48	2.3613E-08	3.15E-07	5.51E-08	5.51E-08	3.07E-08	4.80E-07	3.58E-09	4.81E-08	8.60E-09	8.60E-09	4.73E-09	7.36E-08	1.95E-09	2.60E-08	3.83E-09	3.83E-09	1.89E-09	3.75E-08
1024	258313.81	4084423.48	2.2913E-08	3.06E-07	5.35E-08	5.35E-08	2.98E-08	4.66E-07	3.48E-09	4.66E-08	8.35E-09	8.35E-09	4.59E-09	7.14E-08	1.89E-09	2.52E-08	3.71E-09	3.71E-09	1.84E-09	3.64E-08
1025	258289.48	4084424.48	2.2173E-08	2.96E-07	5.17E-08	5.17E-08	2.88E-08	4.51E-07	3.37E-09	4.51E-08	8.08E-09	8.08E-09	4.44E-09	6.91E-08	1.83E-09	2.44E-08	3.59E-09	3.59E-09	1.78E-09	3.52E-08
1026	258265.15	4084425.48	2.1395E-08	2.86E-07	4.99E-08	4.99E-08	2.78E-08	4.35E-07	3.25E-09	4.35E-08	7.79E-09	7.79E-09	4.28E-09	6.67E-08	1.76E-09	2.36E-08	3.47E-09	3.47E-09	1.72E-09	3.40E-08
1027	258240.81	4084426.48	2.0581E-08	2.75E-07	4.80E-08	4.80E-08	2.68E-08	4.18E-07	3.12E-09	4.19E-08	7.50E-09	7.50E-09	4.12E-09	6.41E-08	1.70E-09	2.27E-08	3.34E-09	3.34E-09	1.65E-09	3.27E-08
1028	258216.48	4084427.48	1.9737E-08	2.64E-07	4.60E-08	4.60E-08	2.57E-08	4.01E-07	3.00E-09	4.02E-08	7.19E-09	7.19E-09	3.95E-09	6.15E-08	1.63E-09	2.17E-08	3.20E-09	3.20E-09	1.58E-09	3.13E-08
1029	258192.15	4084428.48	1.8872E-08	2.52E-07	4.40E-08	4.40E-08	2.45E-08	3.84E-07	2.86E-09	3.84E-08	6.87E-09	6.87E-09	3.78E-09	5.88E-08	1.56E-09	2.08E-08	3.06E-09	3.06E-09	1.51E-09	3.00E-08
1030	258167.82	4084429.48	1.7988E-08	2.40E-07	4.20E-08	4.20E-08	2.34E-08	3.66E-07	2.73E-09	3.66E-08	6.55E-09	6.55E-09	3.60E-09	5.60E-08	1.48E-09	1.98E-08	2.92E-09	2.92E-09	1.44E-09	2.86E-08
1031	258143.49	4084430.48	1.7099E-08	2.28E-07	3.99E-08	3.99E-08	2.22E-08	3.48E-07	2.60E-09	3.48E-08	6.23E-09	6.23E-09	3.42E-09	5.33E-08	1.41E-09	1.88E-08	2.77E-09	2.77E-09	1.37E-09	2.72E-08
1032	258119.16	4084431.48	1.6211E-08	2.17E-07	3.78E-08	3.78E-08	2.11E-08	3.29E-07	2.46E-09	3.30E-08	5.91E-09	5.91E-09	3.25E-09	5.05E-08	1.34E-09	1.78E-08	2.63E-09	2.63E-09	1.30E-09	2.57E-08
1033	258094.82	4084432.49	1.5331E-08	2.05E-07	3.58E-08	3.58E-08	1.99E-08	3.12E-07	2.33E-09	3.12E-08	5.58E-09	5.58E-09	3.07E-09	4.78E-08	1.26E-09	1.69E-08	2.48E-09	2.48E-09	1.23E-09	2.43E-08
1034	258070.49	4084433.49	1.4471E-08	1.93E-07	3.38E-08	3.38E-08	1.88E-08	2.94E-07	2.20E-09	2.94E-08	5.27E-09	5.27E-09	2.90E-09	4.51E-08	1.19E-09	1.59E-08	2.35E-09	2.35E-09	1.16E-09	2.30E-08
1035	258046.16	4084434.49	1.3629E-08	1.82E-07	3.18E-08	3.18E-08	1.77E-08	2.77E-07	2.07E-09	2.77E-08	4.96E-09	4.96E-09	2.73E-09	4.25E-08	1.12E-09	1.50E-08	2.21E-09	2.21E-09	1.09E-09	2.16E-08
1036	258021.83	4084435.49	1.2817E-08	1.71E-07	2.99E-08	2.99E-08	1.67E-08	2.60E-07	1.95E-09	2.61E-08	4.67E-09	4.67E-09	2.57E-09	3.99E-08	1.06E-09	1.41E-08	2.08E-09	2.08E-09	1.03E-09	2.04E-08
1037	257997.5	4084436.49	1.2039E-08	1.61E-07	2.81E-08	2.81E-08	1.57E-08	2.45E-07	1.83E-09	2.45E-08	4.39E-09	4.39E-09	2.41E-09	3.75E-08	9.92E-10	1.33E-08	1.95E-09	1.95E-09	9.66E-10	1.91E-08
1038	257973.16	4084437.49	1.1297E-08	1.51E-07	2.64E-08	2.64E-08	1.47E-08	2.30E-07	1.71E-09	2.30E-08	4.12E-09	4.12E-09	2.26E-09	3.52E-08	9.31E-10	1.24E-08	1.83E-09	1.83E-09	9.06E-10	1.79E-08
1039	257948.83	4084438.49	1.0596E-08	1.42E-07	2.47E-08	2.47E-08	1.38E-08	2.15E-07	1.61E-09	2.16E-08	3.86E-09	3.86E-09	2.12E-09	3.30E-08	8.73E-10	1.17E-08	1.72E-09	1.72E-09	8.50E-10	1.68E-08
1040	257924.5	4084439.49	9.936E-09	1.33E-07	2.32E-08	2.32E-08	1.29E-08	2.02E-07	1.51E-09	2.02E-08	3.62E-09	3.62E-09	1.99E-09	3.10E-08	8.19E-10	1.09E-08	1.61E-09	1.61E-09	7.97E-10	1.58E-08
1041	257900.17	4084440.49	9.3201E-09	1.24E-07	2.17E-08	2.17E-08	1.21E-08	1.89E-07	1.41E-09	1.90E-08	3.40E-09	3.40E-09	1.87E-09	2.90E-08	7.68E-10	1.03E-08	1.51E-09	1.51E-09	7.48E-10	1.48E-08
1042	257875.84	4084441.49	8.7462E-09	1.17E-07	2.04E-08	2.04E-08	1.14E-08	1.78E-07	1.33E-09	1.78E-08	3.19E-09	3.19E-09	1.75E-09	2.72E-08	7.21E-10	9.63E-09	1.42E-09	1.42E-09	7.02E-10	1.39E-08
1043	257851.51	4084442.49	8.2141E-09	1.10E-07	1.92E-08	1.92E-08	1.07E-08	1.67E-07	1.25E-09	1.67E-08	2.99E-09	2.99E-09	1.65E-09	2.56E-08	6.77E-10	9.04E-09	1.33E-09	1.33E-09	6.59E-10	1.30E-08
1044	257827.17	4084443.49	7.7221E-09	1.03E-07	1.80E-08	1.80E-08	1.00E-08	1.57E-07	1.17E-09	1.57E-08	2.81E-09	2.81E-09	1.55E-09	2.41E-08	6.37E-10	8.50E-09	1.25E-09	1.25E-09	6.19E-10	1.23E-08
1045	257802.84	4084444.49	7.2721E-09	9.71E-08	1.70E-08	1.70E-08	9.46E-09	1.48E-07	1.10E-09	1.48E-08	2.65E-09	2.65E-09	1.46E-09	2.27E-08	5.99E-10	8.01E-09	1.18E-09	1.18E-09	5.83E-10	1.15E-08
1046	257778.51	4084445.49	6.8621E-09	9.17E-08	1.60E-08	1.60E-08	8.93E-09	1.39E-07	1.04E-09	1.40E-08	2.50E-09	2.50E-09	1.37E-09	2.14E-08	5.66E-10	7.56E-09	1.11E-09	1.11E-09	5.51E-10	1.09E-08
1047	257754.18	4084446.49	6.4904E-09	8.67E-08	1.51E-08	1.51E-08	8.44E-09	1.32E-07	9.85E-10	1.32E-08	2.36E-09	2.36E-09	1.30E-09	2.02E-08	5.35E-10	7.15E-09	1.05E-09	1.05E-09	5.21E-10	1.03E-08
1048	257729.85	4084447.49	6.1569E-09	8.22E-08	1.44E-08	1.44E-08	8.01E-09	1.25E-07	9.34E-10	1.25E-08	2.24E-09	2.24E-09	1.23E-09	1.92E-08	5.08E-10	6.78E-09	9.98E-10	9.98E-10	4.94E-10	9.78E-09
1049	257705.51	4084448.49	5.8545E-09	7.82E-08	1.37E-08	1.37E-08	7.62E-09	1.19E-07	8.89E-10	1.19E-08	2.13E-09	2.13E-09	1.17E-09	1.82E-08	4.83E-10	6.45E-09	9.49E-10	9.49E-10	4.70E-10	9.30E-09
1050	257681.18	4084449.49	5.583E-09	7.46E-08	1.30E-08	1.30E-08	7.26E-09	1.13E-07	8.47E-10	1.14E-08	2.03E-09	2.03E-09	1.12E-09	1.74E-08	4.60E-10	6.15E-09	9.05E-10	9.05E-10	4.48E-10	8.86E-09
1051	257656.85	4084450.49	5.3388E-09	7.13E-08	1.25E-08	1.25E-08	6.94E-09	1.09E-07	8.10E-10	1.09E-08	1.94E-09	1.94E-09	1.07E-09	1.66E-08	4.40E-10	5.88E-09	8.65E-10	8.65E-10	4.28E-10	8.48E-09
1052	257632.52	4084451.49	5.1165E-09	6.83E-08	1.19E-08	1.19E-08	6.66E-09	1.04E-07	7.77E-10	1.04E-08	1.86E-09	1.86E-09	1.02E-09	1.59E-08	4.22E-10	5.63E-09	8.29E-10	8.29E-10	4.10E-10	8.12E-09
1053	257608.19	4084452.49	4.9142E-09	6.56E-08	1.15E-08	1.15E-08	6.39E-09	9.99E-08	7.46E-10	1.00E-08	1.79E-09	1.79E-09	9.84E-10	1.53E-08	4.05E-10	5.41E-09	7.96E-10	7.96E-10	3.94E-10	7.80E-09
1054	257583.86	4084453.49	4.7266E-09	6.31E-08	1.10E-08	1.10E-08	6.15E-09	9.61E-08	7.17E-10	9.62E-09	1.72E-09	1.72E-09	9.47E-10	1.47E-08	3.90E-10	5.20E-09	7.66E-10	7.66E-10	3.79E-10	7.51E-09
1055	257559.52	4084454.49	4.5516E-09	6.08E-08	1.06E-08	1.06E-08	5.92E-09	9.25E-08	6.91E-10	9.26E-09	1.66E-09	1.66E-09	9.12E-10	1.42E-08	3.75E-10	5.01E-09	7.38E-10	7.38E-10	3.65E-10	7.23E-09
1056	257535.19	4084455.49	4.3877E-09	5.86E-08	1.02E-08	1.02E-08	5.71E-09	8.92E-08	6.66E-10	8.93E-09	1.60E-09	1.60E-09	8.79E-10	1.37E-08	3.62E-10	4.83E-09	7.11E-10	7.11E-10	3.52E-10	6.97E-09
1057	258356.86	4084331.02	1.6707E-08	2.23E-07	3.90E-08	3.90E-08	2.17E-08	3.40E-07	2.54E-09	3.40E-08	6.09E-09	6.09E-09	3.35E-09	5.21E-08	1.38E-09	1.84E-08	2.71E-09	2.71E-09	1.34E-09	2.65E-08
1058	258379.69	4084339.47	1.7864E-08	2.39E-07	4.17E-08	4.17E-08	2.32E-08	3.63E-07	2.71E-09	3.64E-08	6.51E-09	6.51E-09	3.58E-09	5.57E-08	1.47E-09	1.97E-08	2.90E-09	2.90E-09	1.43E-09	2.84E-08
1059	258402.52	4084347.92	1.9047E-08	2.54E-07	4.44E-08	4.44E-08	2.48E-08	3.87E-07	2.89E-09	3.88E-08	6.94E-09	6.94E-09	3.81E-09	5.93E-08	1.57E-09	2.10E-08	3.09E-09	3.09E-09	1.53E-09	3.02E-08
1060	258425.35	4084356.37	2.0244E-08	2.70E-07	4.72E-08	4.72E-08	2.63E-08	4.11E-07	3.07E-09	4.12E-08	7.37E-09	7.37E-09	4.05E-09	6.31E-08	1.67E-09	2.23E-08	3.28E-09	3.28E-09	1.62E-09	3.21E-08
1061	258448.18	4084364.83	2.1448E-08	2.86E-07	5.00E-08	5.00E-08	2.79E-08	4.36E-07	3.26E-09	4.36E-08	7.81E-09	7.81E-09	4.30E-09	6.68E-08	1.77E-09	2.36E-08	3.48E-09	3.48E-09	1.72E-09	3.41E-08
1062	258471.01	4084373.28	2.2653E-08	3.03E-07	5.28E-08	5.28E-08	2.95E-08	4.60E-07	3.44E-09	4.61E-08	8.25E-09	8.25E-09	4.54E-09	7.06E-08	1.87E-09	2.49E-08	3.67E-09	3.67E-09	1.82E-09	3.60E-08
1063	258493.84	4084381.73	2.3844E-08	3.19E-07	5.56E-08	5.56E-08	3.10E-08	4.85E-07	3.62E-09	4.85E-08	8.69E-09	8.69E-09	4.78E-09	7.43E-08	1.97E-09	2.63E-08	3.86E-09	3.86E-09	1.91E-09	3.79E-08
1064	258516.66	4084390.18	2.5016E-08	3.34E-07	5.84E-08	5.84E-08	3.25E-08	5.08E-07	3.80E-09	5.09E-08	9.11E-09	9.11E-09	5.01E-09	7.79E-08	2.06E-09	2.75E-08	4.05E-09	4.05E-09	2.01E-09	3.97E-08
1065	258539.49	4084398.63	2.6155E-08	3.49E-07	6.10E-08	6.10E-08	3.40E-08	5.32E-07	3.97E-09	5.32E-08	9.53E-09	9.53E-09	5.24E-09	8.15E-08	2.16E-09	2.88E-08	4.24E-09	4.24E-09	2.10E-09	4.15E-08
1066	258562.32	4084407.09	2.7248E-08	3.64E-07	6.36E-08	6.36E-08	3.54E-08	5.54E-07	4.14E-09	5.54E-08	9.93E-09	9.93E-09	5.46E-09	8.49E-08	2.25E-09	3.00E-08	4.42E-09	4.42E-09	2.19E-09	4.33E-08
1067	258585.15	4084415.54	2.8281E-08	3.78E-07	6.60E-08	6.60E-08	3.68E-08	5.75E-07	4.29E-09	5.75E-08	1.03E-08	1.03E-08	5.66E-09	8.81E-08	2.33E-09	3.11E-08	4.58E-09	4.58E-09	2.27E-09	4.49E-08
1068	258607.98	4084423.99	2.9236E-08	3.91E-07	6.82E-08	6.82E-08	3.80E-08	5.94E-07	4.44E-09	5.95E-08	1.07E-08	1.07E-08	5.86E-09	9.11E-08	2.41E-09	3.22E-08	4.74E-09	4.74E-09	2.35E-09	4.64E-08
1069	258630.81	4084432.44	3.01E-08	4.02E-07	7.02E-08	7.02E-08	3.92E-08	6.12E-07	4.57E-09	6.12E-08	1.10E-08	1.10E-08	6.03E-09	9.38E-08	2.48E-09	3.31E-08	4.88E-09	4.88E-09	2.41E-09	4.78E-08
1070	258653.64	4084440.9	3.0859E-08	4.12E-07	7.20E-08	7.20E-08	4.01E-08	6.27E-07	4.68E-09	6.28E-08	1.12E-08	1.12E-08	6.18E-09	9.61E-08	2.54E-09	3.40E-08	5.00E-09	5.00E-09	2.48E-09	4.90E-08
1071	258676.47	4084449.35	3.1492E-08	4.21E-07	7.35E-08	7.35E-08	4.10E-08	6.40E-07	4.78E-09	6.41E-08	1.15E-08	1.15E-08	6.31E-09	9.81E-08	2.60E-09	3.47E-08	5.10E-09	5.10E-09	2.53E-09	5.00E-08
1072	258699.29	4084457.8	3.1973E-08	4.27E-07	7.46E-08	7.46E-08	4.16E-08	6.50E-07	4.85E-09	6.51E-08	1.16E-08	1.16E-08	6.40E-09	9.96E-08	2.64E-09	3.52E-08	5.18E-09	5.18E-09	2.56E-09	5.08E-08
1073	258722.12	4084466.25	3.2237E-08	4.31E-07	7.52E-08	7.52E-08	4.19E-08	6.55E-07	4.89E-09	6.56E-08	1.17E-08	1.17E-08	6.46E-09	1.00E-07	2.66E-09	3.55E-08	5.22E-09	5.22E-09	2.59E-09	5.12E-08
1074	258744.95	4084474.7	3.2333E-08	4.32E-07	7.54E-08	7.54E-08	4.21E-08	6.57E-07	4.91E-09	6.58E-08	1.18E-08	1.18E-08	6.48E-09	1.01E-07	2.67E-09	3.56E-08	5.24E-09	5.24E-09	2.59E-09	5.13E-08
1075	258777.81	4084505.33	3.3432E-08	4.47E-07	7.80E-08	7.80E-08	4.35E-08	6.79E-07	5.07E-09	6.80E-08	1.22E-08	1.22E-08	6.70E-09	1.04E-07	2.76E-09	3.68E-08	5.42E-09	5.42E-09	2.68E-09	5.31E-08
1076	258787.85	4084527.51	3.4405E-08	4.60E-07	8.03E-08	8.03E-08	4.48E-08	6.99E-07	5.22E-09	7.00E-08	1.25E-08	1.25E-08	6.89E-09	1.07E-07	2.84E-09	3.79E-08	5.58E-09	5.58E-09	2.76E-09	5.46E-08
1077	258797.88	4084549.69	3.5167E-08	4.70E-07	8.20E-08	8.20E-08	4.57E-08	7.15E-07	5.34E-09	7.16E-08	1.28E-08	1.28E-08	7.04E-09	1.10E-07	2.90E-09	3.87E-08	5.70E-09	5.70E-09	2.82E-09	5.58E-08
1078	258807.92	4084571.87	3.569E-08	4.77E-07	8.33E-08	8.33E-08	4.64E-08	7.25E-07	5.42E-09	7.26E-08	1.30E-08	1.30E-08	7.15E-09	1.11E-07	2.94E-09	3.93E-08	5.78E-09	5.78E-09	2.86E-09	5.67E-08
1079	258817.95	4084594.05	3.5949E-08	4.80E-07	8.39E-08	8.39E-08	4.68E-08	7.31E-07	5.46E-09	7.32E-08	1.31E-08	1.31E-08	7.20E-09	1.12E-07	2.96E-09	3.96E-08	5.83E-09	5.83E-09	2.88E-09	5.71E-08
1080	258827.98	4084616.23	3.5923E-08	4.80E-07	8.38E-08	8.38E-08	4.67E-08	7.30E-07	5.45E-09	7.31E-08	1.31E-08	1.31E-08	7.19E-09	1.12E-07	2.96E-09	3.96E-08	5.82E-09	5.82E-09	2.88E-09	5.70E-08
1081	258838.02	4084638.41	3.5604E-08	4.76E-07	8.31E-08	8.31E-08	4.63E-08	7.24E-07	5.40E-09	7.25E-08	1.30E-08	1.30E-08	7.13E-09	1.11E-07	2.93E-09	3.92E-08	5.77E-09	5.77E-09	2.86E-09	5.65E-08
1082	258848.05	4084660.59	3.4992E-08	4.67E-07	8.16E-08	8.16E-08	4.55E-08	7.11E-07	5.31E-09	7.12E-08	1.27E-08	1.27E-08	7.01E-09	1.09E-07	2.88E-09	3.85E-08	5.67E-09	5.67E-09	2.81E-09	5.56E-08
1083	258858.09	4084682.77	3.4101E-08	4.56E-07	7.96E-08	7.96E-08	4.44E-08	6.93E-07	5.18E-09	6.94E-08	1.24E-08	1.24E-08	6.83E-09	1.06E-07	2.81E-09	3.75E-08	5.53E-09	5.53E-09	2.74E-09	5.41E-08
1084	258868.12	4084704.95	3.2958E-08	4.40E-07	7.69E-08	7.69E-08	4.29E-08	6.70E-07	5.00E-09	6.71E-08	1.20E-08	1.20E-08	6.60E-09	1.03E-07	2.72E-09	3.63E-08	5.34E-09	5.34E-09	2.64E-09	5.23E-08
1085	258878.15	4084727.12	3.1605E-08	4.22E-07	7.37E-08	7.37E-08	4.11E-08	6.42E-07	4.80E-09	6.43E-08	1.15E-08	1.15E-08	6.33E-09	9.85E-08	2.61E-09	3.48E-08	5.12E-09	5.12E-09	2.54E-09	5.02E-08
1086	258888.19	4084749.3	3.0085E-08	4.02E-07	7.02E-08	7.02E-08	3.91E-08	6.11E-07	4.57E-09	6.12E-08	1.10E-08	1.10E-08	6.03E-09	9.37E-08	2.48E-09	3.31E-08	4.88E-09	4.88E-09	2.41E-09	4.78E-08
1087	258898.22	4084771.48	2.8447E-08	3.80E-07	6.64E-08	6.64E-08	3.70E-08	5.78E-07	4.32E-09	5.79E-08	1.04E-08	1.04E-08	5.70E-09	8.86E-08	2.34E-09	3.13E-08	4.61E-09	4.61E-09	2.28E-09	4.52E-08
1088	258908.26	4084793.66	2.6743E-08	3.57E-07	6.24E-08	6.24E-08	3.48E-08	5.44E-07	4.06E-09	5.44E-08	9.74E-09	9.74E-09	5.36E-09	8.33E-08	2.20E-09	2.94E-08	4.33E-09	4.33E-09	2.15E-09	4.25E-08
1089	258918.29	4084815.84	2.5034E-08	3.34E-07	5.84E-08	5.84E-08	3.26E-08	5.09E-07	3.80E-09	5.09E-08	9.12E-09	9.12E-09	5.01E-09	7.80E-08	2.06E-09	2.76E-08	4.06E-09	4.06E-09	2.01E-09	3.98E-08
1090	258928.32	4084838.02	2.3358E-08	3.12E-07	5.45E-08	5.45E-08	3.04E-08	4.75E-07	3.55E-09	4.75E-08	8.51E-09	8.51E-09	4.68E-09	7.28E-08	1.93E-09	2.57E-08	3.79E-09	3.79E-09	1.87E-09	3.71E-08
1091	258938.36	4084860.2	2.1743E-08	2.90E-07	5.07E-08	5.07E-08	2.83E-08	4.42E-07	3.30E-09	4.42E-08	7.92E-09	7.92E-09	4.35E-09	6.77E-08	1.79E-09	2.39E-08	3.52E-09	3.52E-09	1.74E-09	3.45E-08
1092	258948.39	4084882.38	2.0204E-08	2.70E-07	4.71E-08	4.71E-08	2.63E-08	4.11E-07	3.07E-09	4.11E-08	7.36E-09	7.36E-09	4.05E-09	6.29E-08	1.67E-09	2.22E-08	3.27E-09	3.27E-09	1.62E-09	3.21E-08
1093	258334.03	4084322.57	1.5579E-08	2.08E-07	3.63E-08	3.63E-08	2.03E-08	3.17E-07	2.36E-09	3.17E-08	5.68E-09	5.68E-09	3.12E-09	4.85E-08	1.28E-09	1.72E-08	2.52E-09	2.52E-09	1.25E-09	2.47E-08
1094	258309.7	4084323.57	1.5009E-08	2.00E-07	3.50E-08	3.50E-08	1.95E-08	3.05E-07	2.28E-09	3.05E-08	5.47E-09	5.47E-09	3.01E-09	4.68E-08	1.24E-09	1.65E-08	2.43E-09	2.43E-09	1.20E-09	2.38E-08
1095	258285.37	4084324.57	1.4426E-08	1.93E-07	3.37E-08	3.37E-08	1.88E-08	2.93E-07	2.19E-09	2.94E-08	5.26E-09	5.26E-09	2.89E-09	4.49E-08	1.19E-09	1.59E-08	2.34E-09	2.34E-09	1.16E-09	2.29E-08
1096	258261.04	4084325.57	1.3833E-08	1.85E-07	3.23E-08	3.23E-08	1.80E-08	2.81E-07	2.10E-09	2.82E-08	5.04E-09	5.04E-09	2.77E-09	4.31E-08	1.14E-09	1.52E-08	2.24E-09	2.24E-09	1.11E-09	2.20E-08
1097	258236.71	4084326.57	1.3232E-08	1.77E-07	3.09E-08	3.09E-08	1.72E-08	2.69E-07	2.01E-09	2.69E-08	4.82E-09	4.82E-09	2.65E-09	4.12E-08	1.09E-09	1.46E-08	2.14E-09	2.14E-09	1.06E-09	2.10E-08
1098	258212.38	4084327.57	1.2625E-08	1.69E-07	2.95E-08	2.95E-08	1.64E-08	2.57E-07	1.92E-09	2.57E-08	4.60E-09	4.60E-09	2.53E-09	3.93E-08	1.04E-09	1.39E-08	2.05E-09	2.05E-09	1.01E-09	2.00E-08
1099	258188.04	4084328.57	1.2019E-08	1.61E-07	2.80E-08	2.80E-08	1.56E-08	2.44E-07	1.82E-09	2.45E-08	4.38E-09	4.38E-09	2.41E-09	3.74E-08	9.91E-10	1.32E-08	1.95E-09	1.95E-09	9.64E-10	1.91E-08
1100	258163.71	4084329.57	1.1419E-08	1.53E-07	2.66E-08	2.66E-08	1.49E-08	2.32E-07	1.73E-09	2.32E-08	4.16E-09	4.16E-09	2.29E-09	3.56E-08	9.41E-10	1.26E-08	1.85E-09	1.85E-09	9.16E-10	1.81E-08
1101	258139.38	4084330.57	1.0829E-08	1.45E-07	2.53E-08	2.53E-08	1.41E-08	2.20E-07	1.64E-09	2.20E-08	3.94E-09	3.94E-09	2.17E-09	3.37E-08	8.93E-10	1.19E-08	1.76E-09	1.76E-09	8.69E-10	1.72E-08
1102	258115.05	4084331.57	1.0255E-08	1.37E-07	2.39E-08	2.39E-08	1.33E-08	2.08E-07	1.56E-09	2.09E-08	3.74E-09	3.74E-09	2.05E-09	3.19E-08	8.45E-10	1.13E-08	1.66E-09	1.66E-09	8.23E-10	1.63E-08
1103	258090.72	4084332.57	9.7009E-09	1.30E-07	2.26E-08	2.26E-08	1.26E-08	1.97E-07	1.47E-09	1.97E-08	3.53E-09	3.53E-09	1.94E-09	3.02E-08	8.00E-10	1.07E-08	1.57E-09	1.57E-09	7.78E-10	1.54E-08

1104	258066.38	4084333.57	9.1707E-09	1.23E-07	2.14E-08	2.14E-08	1.19E-08	1.86E-07	1.39E-09	1.87E-08	3.34E-09	3.34E-09	1.84E-09	2.86E-08	7.56E-10	1.01E-08	1.49E-09	1.49E-09	7.36E-10	1.46E-08
1105	258042.05	4084334.57	8.6678E-09	1.16E-07	2.02E-08	2.02E-08	1.13E-08	1.76E-07	1.32E-09	1.76E-08	3.16E-09	3.16E-09	1.74E-09	2.70E-08	7.14E-10	9.54E-09	1.40E-09	1.40E-09	6.95E-10	1.38E-08
1106	258017.72	4084335.57	8.1941E-09	1.09E-07	1.91E-08	1.91E-08	1.07E-08	1.67E-07	1.24E-09	1.67E-08	2.98E-09	2.98E-09	1.64E-09	2.55E-08	6.75E-10	9.02E-09	1.33E-09	1.33E-09	6.57E-10	1.30E-08
1107	257993.39	4084336.57	7.7495E-09	1.04E-07	1.81E-08	1.81E-08	1.01E-08	1.57E-07	1.18E-09	1.58E-08	2.82E-09	2.82E-09	1.55E-09	2.41E-08	6.39E-10	8.53E-09	1.26E-09	1.26E-09	6.22E-10	1.23E-08
1108	257969.06	4084337.57	7.334E-09	9.80E-08	1.71E-08	1.71E-08	9.54E-09	1.49E-07	1.11E-09	1.49E-08	2.67E-09	2.67E-09	1.47E-09	2.28E-08	6.05E-10	8.08E-09	1.19E-09	1.19E-09	5.88E-10	1.16E-08
1109	257944.73	4084338.57	6.9459E-09	9.28E-08	1.62E-08	1.62E-08	9.03E-09	1.41E-07	1.05E-09	1.41E-08	2.53E-09	2.53E-09	1.39E-09	2.16E-08	5.73E-10	7.65E-09	1.13E-09	1.13E-09	5.57E-10	1.10E-08
1110	257920.39	4084339.57	6.5851E-09	8.80E-08	1.54E-08	1.54E-08	8.57E-09	1.34E-07	9.99E-10	1.34E-08	2.40E-09	2.40E-09	1.32E-09	2.05E-08	5.43E-10	7.25E-09	1.07E-09	1.07E-09	5.28E-10	1.05E-08
1111	257896.06	4084340.57	6.2499E-09	8.35E-08	1.46E-08	1.46E-08	8.13E-09	1.27E-07	9.49E-10	1.27E-08	2.28E-09	2.28E-09	1.25E-09	1.95E-08	5.15E-10	6.88E-09	1.01E-09	1.01E-09	5.01E-10	9.92E-09
1112	257871.73	4084341.57	5.9383E-09	7.93E-08	1.39E-08	1.39E-08	7.72E-09	1.21E-07	9.01E-10	1.21E-08	2.16E-09	2.16E-09	1.19E-09	1.85E-08	4.89E-10	6.54E-09	9.62E-10	9.62E-10	4.76E-10	9.43E-09
1113	257847.4	4084342.57	5.6467E-09	7.54E-08	1.32E-08	1.32E-08	7.34E-09	1.15E-07	8.57E-10	1.15E-08	2.06E-09	2.06E-09	1.13E-09	1.76E-08	4.65E-10	6.22E-09	9.15E-10	9.15E-10	4.53E-10	8.97E-09
1114	257823.07	4084343.57	5.3771E-09	7.18E-08	1.25E-08	1.25E-08	6.99E-09	1.09E-07	8.16E-10	1.09E-08	1.96E-09	1.96E-09	1.08E-09	1.68E-08	4.43E-10	5.92E-09	8.71E-10	8.71E-10	4.31E-10	8.54E-09
1115	257798.73	4084344.57	5.1274E-09	6.85E-08	1.20E-08	1.20E-08	6.67E-09	1.04E-07	7.78E-10	1.04E-08	1.87E-09	1.87E-09	1.03E-09	1.60E-08	4.23E-10	5.65E-09	8.31E-10	8.31E-10	4.11E-10	8.14E-09
1116	257774.4	4084345.57	4.8942E-09	6.54E-08	1.14E-08	1.14E-08	6.37E-09	9.95E-08	7.43E-10	9.96E-09	1.78E-09	1.78E-09	9.80E-10	1.52E-08	4.03E-10	5.39E-09	7.93E-10	7.93E-10	3.93E-10	7.77E-09
1117	257750.07	4084346.57	4.681E-09	6.25E-08	1.09E-08	1.09E-08	6.09E-09	9.51E-08	7.10E-10	9.53E-09	1.71E-09	1.71E-09	9.37E-10	1.46E-08	3.86E-10	5.15E-09	7.59E-10	7.59E-10	3.76E-10	7.43E-09
1118	257725.74	4084347.57	4.4842E-09	5.99E-08	1.05E-08	1.05E-08	5.83E-09	9.11E-08	6.81E-10	9.13E-09	1.63E-09	1.63E-09	8.98E-10	1.40E-08	3.70E-10	4.94E-09	7.27E-10	7.27E-10	3.60E-10	7.12E-09
1119	257701.41	4084348.57	4.3057E-09	5.75E-08	1.00E-08	1.00E-08	5.60E-09	8.75E-08	6.53E-10	8.76E-09	1.57E-09	1.57E-09	8.62E-10	1.34E-08	3.55E-10	4.74E-09	6.98E-10	6.98E-10	3.45E-10	6.84E-09
1120	257677.08	4084349.57	4.1417E-09	5.53E-08	9.66E-09	9.66E-09	5.39E-09	8.42E-08	6.29E-10	8.43E-09	1.51E-09	1.51E-09	8.29E-10	1.29E-08	3.41E-10	4.56E-09	6.71E-10	6.71E-10	3.32E-10	6.58E-09
1121	257652.74	4084350.57	3.9904E-09	5.33E-08	9.31E-09	9.31E-09	5.19E-09	8.11E-08	6.06E-10	8.12E-09	1.45E-09	1.45E-09	7.99E-10	1.24E-08	3.29E-10	4.39E-09	6.47E-10	6.47E-10	3.20E-10	6.34E-09
1122	257628.41	4084351.58	3.8538E-09	5.15E-08	8.99E-09	8.99E-09	5.01E-09	7.83E-08	5.85E-10	7.84E-09	1.40E-09	1.40E-09	7.72E-10	1.20E-08	3.18E-10	4.24E-09	6.25E-10	6.25E-10	3.09E-10	6.12E-09
1123	257604.08	4084352.58	3.728E-09	4.98E-08	8.70E-09	8.70E-09	4.85E-09	7.58E-08	5.66E-10	7.59E-09	1.36E-09	1.36E-09	7.47E-10	1.16E-08	3.07E-10	4.10E-09	6.04E-10	6.04E-10	2.99E-10	5.92E-09
1124	257579.75	4084353.58	3.6114E-09	4.82E-08	8.43E-09	8.43E-09	4.70E-09	7.34E-08	5.48E-10	7.35E-09	1.32E-09	1.32E-09	7.23E-10	1.13E-08	2.98E-10	3.98E-09	5.85E-10	5.85E-10	2.90E-10	5.73E-09
1125	257555.42	4084354.58	3.5021E-09	4.68E-08	8.17E-09	8.17E-09	4.56E-09	7.12E-08	5.32E-10	7.13E-09	1.28E-09	1.28E-09	7.01E-10	1.09E-08	2.89E-10	3.86E-09	5.68E-10	5.68E-10	2.81E-10	5.56E-09
1126	257531.08	4084355.58	3.4019E-09	4.54E-08	7.94E-09	7.94E-09	4.42E-09	6.91E-08	5.16E-10	6.92E-09	1.24E-09	1.24E-09	6.81E-10	1.06E-08	2.80E-10	3.75E-09	5.51E-10	5.51E-10	2.73E-10	5.40E-09
1127	258351.93	4084230.8	1.1321E-08	1.51E-07	2.64E-08	2.64E-08	1.47E-08	2.30E-07	1.72E-09	2.30E-08	4.12E-09	4.12E-09	2.27E-09	3.53E-08	9.33E-10	1.25E-08	1.83E-09	1.83E-09	9.08E-10	1.80E-08
1128	258373.93	4084238.94	1.2106E-08	1.62E-07	2.82E-08	2.82E-08	1.57E-08	2.46E-07	1.84E-09	2.46E-08	4.41E-09	4.41E-09	2.42E-09	3.77E-08	9.98E-10	1.33E-08	1.96E-09	1.96E-09	9.71E-10	1.92E-08
1129	258395.93	4084247.09	1.2922E-08	1.73E-07	3.01E-08	3.01E-08	1.68E-08	2.63E-07	1.96E-09	2.63E-08	4.71E-09	4.71E-09	2.59E-09	4.03E-08	1.07E-09	1.42E-08	2.09E-09	2.09E-09	1.04E-09	2.05E-08
1130	258417.93	4084255.23	1.3766E-08	1.84E-07	3.21E-08	3.21E-08	1.79E-08	2.80E-07	2.09E-09	2.80E-08	5.01E-09	5.01E-09	2.76E-09	4.29E-08	1.13E-09	1.52E-08	2.23E-09	2.23E-09	1.10E-09	2.19E-08
1131	258439.93	4084263.38	1.4632E-08	1.95E-07	3.41E-08	3.41E-08	1.90E-08	2.97E-07	2.22E-09	2.98E-08	5.33E-09	5.33E-09	2.93E-09	4.56E-08	1.21E-09	1.61E-08	2.37E-09	2.37E-09	1.17E-09	2.32E-08
1132	258461.94	4084271.53	1.5513E-08	2.07E-07	3.62E-08	3.62E-08	2.02E-08	3.15E-07	2.35E-09	3.16E-08	5.65E-09	5.65E-09	3.11E-09	4.83E-08	1.28E-09	1.71E-08	2.51E-09	2.51E-09	1.24E-09	2.46E-08
1133	258483.94	4084279.67	1.6403E-08	2.19E-07	3.83E-08	3.83E-08	2.13E-08	3.33E-07	2.49E-09	3.34E-08	5.98E-09	5.98E-09	3.28E-09	5.11E-08	1.35E-09	1.81E-08	2.66E-09	2.66E-09	1.32E-09	2.60E-08
1134	258505.94	4084287.82	1.7299E-08	2.31E-07	4.04E-08	4.04E-08	2.25E-08	3.52E-07	2.63E-09	3.52E-08	6.30E-09	6.30E-09	3.46E-09	5.39E-08	1.43E-09	1.90E-08	2.80E-09	2.80E-09	1.39E-09	2.75E-08
1135	258527.94	4084295.96	1.8192E-08	2.43E-07	4.24E-08	4.24E-08	2.37E-08	3.70E-07	2.76E-09	3.70E-08	6.63E-09	6.63E-09	3.64E-09	5.67E-08	1.50E-09	2.00E-08	2.95E-09	2.95E-09	1.46E-09	2.89E-08
1136	258549.94	4084304.11	1.9079E-08	2.55E-07	4.45E-08	4.45E-08	2.48E-08	3.88E-07	2.90E-09	3.88E-08	6.95E-09	6.95E-09	3.82E-09	5.94E-08	1.57E-09	2.10E-08	3.09E-09	3.09E-09	1.53E-09	3.03E-08
1137	258571.94	4084312.25	1.9949E-08	2.66E-07	4.65E-08	4.65E-08	2.59E-08	4.05E-07	3.03E-09	4.06E-08	7.27E-09	7.27E-09	4.00E-09	6.22E-08	1.64E-09	2.20E-08	3.23E-09	3.23E-09	1.60E-09	3.17E-08
1138	258593.95	4084320.4	2.0799E-08	2.78E-07	4.85E-08	4.85E-08	2.71E-08	4.23E-07	3.16E-09	4.23E-08	7.58E-09	7.58E-09	4.17E-09	6.48E-08	1.71E-09	2.29E-08	3.37E-09	3.37E-09	1.67E-09	3.30E-08
1139	258615.95	4084328.55	2.1618E-08	2.89E-07	5.04E-08	5.04E-08	2.81E-08	4.39E-07	3.28E-09	4.40E-08	7.87E-09	7.87E-09	4.33E-09	6.74E-08	1.78E-09	2.38E-08	3.50E-09	3.50E-09	1.73E-09	3.43E-08
1140	258637.95	4084336.69	2.2397E-08	2.99E-07	5.23E-08	5.23E-08	2.91E-08	4.55E-07	3.40E-09	4.56E-08	8.16E-09	8.16E-09	4.49E-09	6.98E-08	1.85E-09	2.47E-08	3.63E-09	3.63E-09	1.80E-09	3.56E-08
1141	258659.95	4084344.84	2.3134E-08	3.09E-07	5.40E-08	5.40E-08	3.01E-08	4.70E-07	3.51E-09	4.71E-08	8.43E-09	8.43E-09	4.63E-09	7.21E-08	1.91E-09	2.55E-08	3.75E-09	3.75E-09	1.86E-09	3.67E-08
1142	258681.95	4084352.98	2.3815E-08	3.18E-07	5.56E-08	5.56E-08	3.10E-08	4.84E-07	3.61E-09	4.85E-08	8.68E-09	8.68E-09	4.77E-09	7.42E-08	1.96E-09	2.62E-08	3.86E-09	3.86E-09	1.91E-09	3.78E-08
1143	258703.95	4084361.13	2.4431E-08	3.26E-07	5.70E-08	5.70E-08	3.18E-08	4.97E-07	3.71E-09	4.97E-08	8.90E-09	8.90E-09	4.89E-09	7.61E-08	2.01E-09	2.69E-08	3.96E-09	3.96E-09	1.96E-09	3.88E-08
1144	258725.96	4084369.28	2.4972E-08	3.34E-07	5.83E-08	5.83E-08	3.25E-08	5.08E-07	3.79E-09	5.08E-08	9.10E-09	9.10E-09	5.00E-09	7.78E-08	2.06E-09	2.75E-08	4.05E-09	4.05E-09	2.00E-09	3.97E-08
1145	258747.96	4084377.42	2.5422E-08	3.40E-07	5.93E-08	5.93E-08	3.31E-08	5.17E-07	3.86E-09	5.17E-08	9.26E-09	9.26E-09	5.09E-09	7.92E-08	2.10E-09	2.80E-08	4.12E-09	4.12E-09	2.04E-09	4.04E-08
1146	258769.96	4084385.57	2.5772E-08	3.44E-07	6.01E-08	6.01E-08	3.35E-08	5.24E-07	3.91E-09	5.24E-08	9.39E-09	9.39E-09	5.16E-09	8.03E-08	2.12E-09	2.84E-08	4.18E-09	4.18E-09	2.07E-09	4.09E-08
1147	258791.96	4084393.71	2.6013E-08	3.47E-07	6.07E-08	6.07E-08	3.38E-08	5.29E-07	3.95E-09	5.29E-08	9.48E-09	9.48E-09	5.21E-09	8.10E-08	2.14E-09	2.86E-08	4.22E-09	4.22E-09	2.09E-09	4.13E-08
1148	258813.96	4084401.86	2.6082E-08	3.48E-07	6.09E-08	6.09E-08	3.39E-08	5.30E-07	3.96E-09	5.31E-08	9.50E-09	9.50E-09	5.22E-09	8.13E-08	2.15E-09	2.87E-08	4.23E-09	4.23E-09	2.09E-09	4.14E-08
1149	258845.63	4084431.38	2.6929E-08	3.60E-07	6.28E-08	6.28E-08	3.50E-08	5.47E-07	4.09E-09	5.48E-08	9.81E-09	9.81E-09	5.39E-09	8.39E-08	2.22E-09	2.96E-08	4.36E-09	4.36E-09	2.16E-09	4.28E-08
1150	258855.3	4084452.76	2.7665E-08	3.70E-07	6.45E-08	6.45E-08	3.60E-08	5.62E-07	4.20E-09	5.63E-08	1.01E-08	1.01E-08	5.54E-09	8.62E-08	2.28E-09	3.05E-08	4.48E-09	4.48E-09	2.22E-09	4.39E-08
1151	258864.97	4084474.13	2.8268E-08	3.78E-07	6.60E-08	6.60E-08	3.68E-08	5.75E-07	4.29E-09	5.75E-08	1.03E-08	1.03E-08	5.66E-09	8.81E-08	2.33E-09	3.11E-08	4.58E-09	4.58E-09	2.27E-09	4.49E-08
1152	258874.64	4084495.51	2.8727E-08	3.84E-07	6.70E-08	6.70E-08	3.74E-08	5.84E-07	4.36E-09	5.85E-08	1.05E-08	1.05E-08	5.75E-09	8.95E-08	2.37E-09	3.16E-08	4.66E-09	4.66E-09	2.30E-09	4.56E-08
1153	258884.32	4084516.88	2.9028E-08	3.88E-07	6.77E-08	6.77E-08	3.78E-08	5.90E-07	4.41E-09	5.91E-08	1.06E-08	1.06E-08	5.81E-09	9.04E-08	2.39E-09	3.20E-08	4.70E-09	4.70E-09	2.33E-09	4.61E-08
1154	258893.99	4084538.26	2.9161E-08	3.90E-07	6.80E-08	6.80E-08	3.79E-08	5.93E-07	4.43E-09	5.93E-08	1.06E-08	1.06E-08	5.84E-09	9.09E-08	2.40E-09	3.21E-08	4.73E-09	4.73E-09	2.34E-09	4.63E-08
1155	258903.66	4084559.63	2.9121E-08	3.89E-07	6.79E-08	6.79E-08	3.79E-08	5.92E-07	4.42E-09	5.93E-08	1.06E-08	1.06E-08	5.83E-09	9.07E-08	2.40E-09	3.21E-08	4.72E-09	4.72E-09	2.34E-09	4.62E-08
1156	258913.33	4084581.01	2.8906E-08	3.86E-07	6.74E-08	6.74E-08	3.76E-08	5.87E-07	4.39E-09	5.88E-08	1.05E-08	1.05E-08	5.79E-09	9.01E-08	2.38E-09	3.18E-08	4.68E-09	4.68E-09	2.32E-09	4.59E-08
1157	258923	4084602.38	2.8516E-08	3.81E-07	6.65E-08	6.65E-08	3.71E-08	5.80E-07	4.33E-09	5.80E-08	1.04E-08	1.04E-08	5.71E-09	8.88E-08	2.35E-09	3.14E-08	4.62E-09	4.62E-09	2.29E-09	4.53E-08
1158	258932.67	4084623.76	2.7957E-08	3.73E-07	6.52E-08	6.52E-08	3.64E-08	5.68E-07	4.24E-09	5.69E-08	1.02E-08	1.02E-08	5.60E-09	8.71E-08	2.30E-09	3.08E-08	4.53E-09	4.53E-09	2.24E-09	4.44E-08
1159	258942.34	4084645.13	2.7242E-08	3.64E-07	6.36E-08	6.36E-08	3.54E-08	5.54E-07	4.13E-09	5.54E-08	9.92E-09	9.92E-09	5.46E-09	8.49E-08	2.25E-09	3.00E-08	4.42E-09	4.42E-09	2.19E-09	4.33E-08
1160	258952.01	4084666.51	2.639E-08	3.53E-07	6.16E-08	6.16E-08	3.43E-08	5.36E-07	4.01E-09	5.37E-08	9.61E-09	9.61E-09	5.29E-09	8.22E-08	2.18E-09	2.91E-08	4.28E-09	4.28E-09	2.12E-09	4.19E-08
1161	258961.68	4084687.89	2.542E-08	3.40E-07	5.93E-08	5.93E-08	3.31E-08	5.17E-07	3.86E-09	5.17E-08	9.26E-09	9.26E-09	5.09E-09	7.92E-08	2.10E-09	2.80E-08	4.12E-09	4.12E-09	2.04E-09	4.04E-08
1162	258971.35	4084709.26	2.4358E-08	3.25E-07	5.68E-08	5.68E-08	3.17E-08	4.95E-07	3.70E-09	4.96E-08	8.87E-09	8.87E-09	4.88E-09	7.59E-08	2.01E-09	2.68E-08	3.95E-09	3.95E-09	1.95E-09	3.87E-08
1163	258981.02	4084730.64	2.3225E-08	3.10E-07	5.42E-08	5.42E-08	3.02E-08	4.72E-07	3.52E-09	4.73E-08	8.46E-09	8.46E-09	4.65E-09	7.24E-08	1.91E-09	2.56E-08	3.76E-09	3.76E-09	1.86E-09	3.69E-08
1164	258990.69	4084752.01	2.2048E-08	2.95E-07	5.14E-08	5.14E-08	2.87E-08	4.48E-07	3.35E-09	4.49E-08	8.03E-09	8.03E-09	4.42E-09	6.87E-08	1.82E-09	2.43E-08	3.57E-09	3.57E-09	1.77E-09	3.50E-08
1165	259000.36	4084773.39	2.0856E-08	2.79E-07	4.87E-08	4.87E-08	2.71E-08	4.24E-07	3.17E-09	4.24E-08	7.60E-09	7.60E-09	4.18E-09	6.50E-08	1.72E-09	2.30E-08	3.38E-09	3.38E-09	1.67E-09	3.31E-08
1166	259010.03	4084794.76	1.9675E-08	2.63E-07	4.59E-08	4.59E-08	2.56E-08	4.00E-07	2.99E-09	4.00E-08	7.17E-09	7.17E-09	3.94E-09	6.13E-08	1.62E-09	2.17E-08	3.19E-09	3.19E-09	1.58E-09	3.12E-08
1167	259019.7	4084816.14	1.8527E-08	2.47E-07	4.32E-08	4.32E-08	2.41E-08	3.77E-07	2.81E-09	3.77E-08	6.75E-09	6.75E-09	3.71E-09	5.77E-08	1.53E-09	2.04E-08	3.00E-09	3.00E-09	1.49E-09	2.94E-08
1168	259029.37	4084837.51	1.7423E-08	2.33E-07	4.06E-08	4.06E-08	2.27E-08	3.54E-07	2.64E-09	3.55E-08	6.35E-09	6.35E-09	3.49E-09	5.43E-08	1.44E-09	1.92E-08	2.82E-09	2.82E-09	1.40E-09	2.77E-08
1169	259039.04	4084858.89	1.6368E-08	2.19E-07	3.82E-08	3.82E-08	2.13E-08	3.33E-07	2.48E-09	3.33E-08	5.96E-09	5.96E-09	3.28E-09	5.10E-08	1.35E-09	1.80E-08	2.65E-09	2.65E-09	1.31E-09	2.60E-08
1170	259048.71	4084880.26	1.5368E-08	2.05E-07	3.59E-08	3.59E-08	2.00E-08	3.12E-07	2.33E-09	3.13E-08	5.60E-09	5.60E-09	3.08E-09	4.79E-08	1.27E-09	1.69E-08	2.49E-09	2.49E-09	1.23E-09	2.44E-08
1171	258329.93	4084222.65	1.057E-08	1.41E-07	2.47E-08	2.47E-08	1.37E-08	2.15E-07	1.60E-09	2.15E-08	3.85E-09	3.85E-09	2.12E-09	3.29E-08	8.71E-10	1.16E-08	1.71E-09	1.71E-09	8.48E-10	1.68E-08
1172	258305.59	4084223.65	1.0146E-08	1.36E-07	2.37E-08	2.37E-08	1.32E-08	2.06E-07	1.54E-09	2.06E-08	3.70E-09	3.70E-09	2.03E-09	3.16E-08	8.36E-10	1.12E-08	1.64E-09	1.64E-09	8.14E-10	1.61E-08
1173	258281.26	4084224.65	9.7228E-09	1.30E-07	2.27E-08	2.27E-08	1.26E-08	1.98E-07	1.48E-09	1.98E-08	3.54E-09	3.54E-09	1.95E-09	3.03E-08	8.01E-10	1.07E-08	1.58E-09	1.58E-09	7.80E-10	1.54E-08
1174	258256.93	4084225.65	9.3037E-09	1.24E-07	2.17E-08	2.17E-08	1.21E-08	1.89E-07	1.41E-09	1.89E-08	3.39E-09	3.39E-09	1.86E-09	2.90E-08	7.67E-10	1.02E-08	1.51E-09	1.51E-09	7.46E-10	1.48E-08
1175	258232.6	4084226.65	8.8883E-09	1.19E-07	2.07E-08	2.07E-08	1.16E-08	1.81E-07	1.35E-09	1.81E-08	3.24E-09	3.24E-09	1.78E-09	2.77E-08	7.33E-10	9.79E-09	1.44E-09	1.44E-09	7.13E-10	1.41E-08
1176	258208.27	4084227.65	8.4783E-09	1.13E-07	1.98E-08	1.98E-08	1.10E-08	1.72E-07	1.29E-09	1.73E-08	3.09E-09	3.09E-09	1.70E-09	2.64E-08	6.99E-10	9.34E-09	1.37E-09	1.37E-09	6.80E-10	1.35E-08
1177	258183.94	4084228.65	8.0756E-09	1.08E-07	1.88E-08	1.88E-08	1.05E-08	1.64E-07	1.23E-09	1.64E-08	2.94E-09	2.94E-09	1.62E-09	2.52E-08	6.66E-10	8.89E-09	1.31E-09	1.31E-09	6.48E-10	1.28E-08
1178	258159.6	4084229.65	7.6839E-09	1.03E-07	1.79E-08	1.79E-08	9.99E-09	1.56E-07	1.17E-09	1.56E-08	2.80E-09	2.80E-09	1.54E-09	2.39E-08	6.33E-10	8.46E-09	1.25E-09	1.25E-09	6.16E-10	1.22E-08
1179	258135.27	4084230.65	7.3049E-09	9.76E-08	1.70E-08	1.70E-08	9.50E-09	1.48E-07	1.11E-09	1.49E-08	2.66E-09	2.66E-09	1.46E-09	2.28E-08	6.02E-10	8.04E-09	1.18E-09	1.18E-09	5.86E-10	1.16E-08
1180	258110.94	4084231.65	6.9423E-09	9.27E-08	1.62E-08	1.62E-08	9.03E-09	1.41E-07	1.05E-09	1.41E-08	2.53E-09	2.53E-09	1.39E-09	2.16E-08	5.72E-10	7.64E-09	1.13E-09	1.13E-09	5.57E-10	1.10E-08
1181	258086.61	4084232.65	6.5997E-09	8.82E-08	1.54E-08	1.54E-08	8.58E-09	1.34E-07	1.00E-09	1.34E-08	2.40E-09	2.40E-09	1.32E-09	2.06E-08	5.44E-10	7.27E-09	1.07E-09	1.07E-09	5.29E-10	1.05E-08
1182	258062.28	4084233.65	6.2735E-09	8.38E-08	1.46E-08	1.46E-08	8.16E-09	1.28E-07	9.52E-10	1.28E-08	2.29E-09	2.29E-09	1.26E-09	1.95E-08	5.17E-10	6.91E-09	1.02E-09	1.02E-09	5.03E-10	9.96E-09
1183	258037.94	4084234.65	5.9674E-09	7.97E-08	1.39E-08	1.39E-08	7.76E-09	1.21E-07	9.06E-10	1.21E-08	2.17E-09	2.17E-09	1.20E-09	1.86E-08	4.92E-10	6.57E-09	9.67E-10	9.67E-10	4.79E-10	9.48E-09
1184	258013.61	4084235.65	5.6795E-09	7.59E-08	1.33E-08	1.33E-08	7.39E-09	1.15E-07	8.62E-10	1.16E-08	2.07E-09	2.07E-09	1.14E-09	1.77E-08	4.68E-10	6.25E-09	9.21E-10	9.21E-10	4.56E-10	9.02E-09
1185	257989.28	4084236.66	5.4117E-09	7.23E-08	1.26E-08	1.26E-08	7.04E-09	1.10E-07	8.21E-10	1.10E-08	1.97E-09	1.97E-09	1.08E-09	1.69E-08	4.46E-10	5.96E-09	8.77E-10	8.77E-10	4.34E-10	8.59E-09
1186	257964.95	4084237.66	5.1621E-09	6.90E-08	1.20E-08	1.20E-08	6.71E-09	1.05E-07	7.83E-10	1.05E-08	1.88E-09	1.88E-09	1.03E-09	1.61E-08	4.26E-10	5.68E-09	8.37E-10	8.37E-10	4.14E-10	8.20E-09
1187	257940.62	4084238.66	4.9288E-09	6.58E-08	1.15E-08	1.15E-08	6.41E-09	1.00E-07	7.48E-10	1.00E-08	1.80E-09	1.80E-09	9.87E-10	1.54E-08	4.06E-10	5.43E-09	7.99E-10	7.99E-10	3.95E-10	7.83E-09
1188	257916.29	4084239.66	4.712E-09	6.29E-08	1.10E-08	1.10E-08	6.13E-09	9.58E-08	7.15E-10	9.59E-09	1.72E-09	1.72E-09	9.44E-10	1.47E-08	3.88E-10	5.19E-09	7.64E-10	7.64E-10	3.78E-10	7.48E-09
1189	257891.95	4084240.66	4.5116E-09	6.03E-08	1.05E-08	1.05E-08	5.87E-09	9.17E-08	6.85E-10	9.18E-09	1.64E-09	1.64E-09	9.04E-10	1.41E-08	3.72E-10	4.97E-09	7.31E-10	7.31E-10	3.62E-10	7.16E-09
1190	257867.62	4084241.66	4.3257E-09	5.78E-08	1.01E-08	1.01E-08	5.63E-09	8.79E-08	6.57E-10	8.80E-09	1.58E-09	1.58E-09	8.66E-10	1.35E-08	3.57E-10	4.76E-09	7.01E-10	7.01E-10	3.47E-10	6.87E-09
1191	257843.29	4084242.66	4.1544E-09	5.55E-08	9.69E-09	9.69E-09	5.40E-09	8.44E-08	6.31E-10	8.45E-09	1.51E-09	1.51E-09	8.32E-10	1.29E-08	3.42E-10	4.57E-09	6.73E-10	6.73E-10	3.33E-10	6.60E-09
1192	257818.96	4084243.66	3.9977E-09	5.34E-08	9.33E-09	9.33E-09	5.20E-09	8.13E-08	6.07E-10	8.14E-09	1.46E-09	1.46E-09	8.01E-10	1.25E-08	3.30E-10	4.40E-09	6.48E-10	6.48E-10	3.21E-10	6.35E-09
1193	257794.63	4084244.66	3.8501E-09	5.14E-08	8.98E-09	8.98E-09	5.01E-09	7.83E-08	5.84E-10	7.83E-09	1.40E-09	1.40E-09	7.71E-10	1.20E-08	3.17E-10	4.24E-09	6.24E-10	6.24E-10	3.09E-10	6.11E-09
1194	257770.29	4084245.66	3.7135E-09	4.96E-08	8.66E-09	8.66E-09	4.83E-09	7.55E-08	5.64E-10	7.56E-09	1.35E-09	1.35E-09	7.44E-10	1.16E-08	3.06E-10	4.09E-09	6.02E-10	6.02E-10	2.98E-10	5.90E-09
1195	257745.96	4084246.66	3.5859E-09	4.79E-08	8.37E-09	8.37E-09	4.66E-09	7.29E-08	5.44E-10	7.30E-09	1.31E-09	1.31E-09	7.18E-10	1.12E-08	2.96E-10	3.95E-09	5.81E-10	5.81E-10	2.88E-10	5.69E-09
1196	257721.63	4084247.66	3.4657E-09	4.63E-08	8.09E-09	8.09E-09	4.51E-09	7.04E-08	5.26E-10	7.05E-09	1.26E-09	1.26E-09	6.94E-10	1.08E-08	2.86E-10	3.82E-09	5.62E-10	5.62E-10	2.78E-10	5.50E-09
1197	257697.3	4084248.66	3.3527E-09	4.48E-08	7.82E-09	7.82E-09	4.36E-09	6.81E-08	5.09E-10	6.82E-09	1.22E-09	1.22E-09	6.71E-10	1.04E-08	2.76E-10	3.69E-09	5.43E-10	5.43E-10	2.69E-10	5.32E-09
1198	257672.97	4084249.66	3.2488E-09	4.34E-08	7.58E-09	7.58E-09	4.23E-09	6.60E-08	4.93E-10	6.61E-09	1.18E-09	1.18E-09	6.51E-10	1.01E-08	2.68E-10	3.58E-09	5.27E-10	5.27E-10	2.61E-10	5.16E-09
1199	257648.64	4084250.66	3.1486E-09	4.21E-08	7.35E-09	7.35E-09	4.10E-09	6.40E-08	4.78E-10	6.41E-09	1.15E-09	1.15E-09	6.31E-10	9.81E-09	2.60E-10	3.47E-09	5.10E-10	5.10E-10	2.53E-10	5.00E-09
1200	257624.3	4084251.66	3.0557E-09	4.08E-08	7.13E-09	7.13E-09	3.97E-09	6.21E-08	4.64E-10	6.22E-09	1.11E-09	1.11E-09	6.12E-10	9.52E-09	2.52E-10	3.36E-09	4.95E-10	4.95E-10	2.45E-10	4.85E-09
1201	257599.97	4084252.66	2.9664E-09	3.96E-08	6.92E-09	6.92E-09	3.86E-09	6.03E-08	4.50E-10	6.04E-09	1.08E-09	1.08E-09	5.94E-10	9.24E-09	2.45E-10	3.27E-09	4.81E-10	4.81E-10	2.38E-10	4.71E-09
1202	257575.64	4084253.66	2.8826E-09	3.85E-08	6.73E-09	6.73E-09	3.75E-09	5.86E-08	4.37E-10	5.87E-09	1.05E-09	1.05E-09	5.77E-10	8.98E-09	2.38E-10	3.17E-09	4.67E-10	4.67E-10	2.31E-10	4.58E-09
1203	257551.31	4084254.66	2.8042E-09	3.75E-08	6.54E-09	6.54E-09	3.65E-09	5.70E-08	4.26E-10	5.71E-09	1.02E-09	1.02E-09	5.62E-10	8.74E-09	2.31E-10	3.09E-09	4.54E-10	4.54E-10	2.25E-10	4.45E-09
1204	257526.98	4084255.66	2.7295E-09	3.65E-08	6.37E-09	6.37E-09	3.55E-09	5.55E-08	4.14E-10	5.55E-09	9.94E-10	9.94E-10	5.47E-10	8.50E-09	2.25E-10	3.01E-09	4.42E-10	4.42E-10	2.19E-10	4.33E-09
1205	258344.15	4084031.13	5.7852E-09	7.73E-08	1.35E-08	1.35E-08	7.52E-09	1.18E-07	8.78E-10	1.18E-08	2.11E-09	2.11E-09	1.16E-09	1.80E-08	4.77E-10	6.37E-09	9.38E-10	9.38E-10	4.64E-10	9.19E-09
1206	258366.58	4084039.43	6.1606E-09	8.23E-08	1.44E-08	1.44E-08	8.01E-09	1.25E-07	9.35E-10	1.25E-08	2.24E-09	2.24E-09	1.23E-09	1.92E-08	5.08E-10	6.78E-09	9.98E-10	9.98E-10	4.94E-10	9.78E-09
1207	258389.02	4084047.74	6.5633E-09	8.77E-08	1.53E-08	1.53E-08	8.54E-09	1.33E-07	9.96E-10	1.34E-08	2.39E-09	2.39E-09	1.31E-09	2.04E-08	5.41E-10	7.23E-09	1.06E-09	1.06E-09	5.27E-10	1.04E-08
1208	258411.45	4084056.04	6.9915E-09	9.34E-08	1.63E-08	1.63E-08	9.09E-09	1.42E-07	1.06E-09	1.42E-08	2.55E-09	2.55E-09	1.40E-09	2.18E-08	5.76E-10	7.70E-09	1.13E-09	1.13E-09	5.61E-10	1.11E-08
1209	258433.89	4084064.35	7.4452E-09	9.94E-08	1.74E-08	1.74E-08	9.68E-09	1.51E-07	1.13E-09	1.52E-08	2.71E-09	2.71E-09	1.49E-09	2.32E-08	6.14E-10	8.20E-09	1.21E-09	1.21E-09	5.97E-10	1.18E-08
1210	258456.32	4084072.66	7.9226E-09	1.06E-07	1.85E-08	1.85E-08	1.03E-08	1.61E-07	1.20E-09	1.61E-08	2.89E-09	2.89E-09	1.59E-09	2.47E-08	6.53E-10	8.72E-09	1.28E-09	1.28E-09	6.36E-10	1.26E-08
1211	258478.76	4084080.96	8.4218E-09	1.12E-07	1.96E-08	1.96E-08	1.10E-08	1.71E-07	1.28E-09	1.71E-08	3.07E-09	3.07E-09	1.69E-09	2.62E-08	6.94E-10	9.27E-09	1.36E-09	1.36E-09	6.76E-10	1.34E-08
1212	258501.19	4084089.27	8.9411E-09	1.19E-07	2.09E-08	2.09E-08	1.16E-08	1.82E-07	1.36E-09	1.82E-08	3.26E-09	3.26E-09	1.79E-09	2.79E-08	7.37E-10	9.84E-09	1.45E-09	1.45E-09	7.17E-10	1.42E-08
1213	258523.63	4084097.58	9.4786E-09	1.27E-07	2.21E-08	2.21E-08	1.23E-08	1.93E-07	1.44E-09	1.93E-08	3.45E-09	3.45E-09	1.90E-09	2.95E-08	7.81E-10	1.04E-08	1.54E-09	1.54E-09	7.60E-10	1.51E-08
1214	258546.06	4084105.88	1.0031E-08	1.34E-07	2.34E-08	2.34E-08	1.30E-08	2.04E-07	1.52E-09	2.04E-08	3.65E-09	3.65E-09	2.01E-09	3.13E-08	8.27E-10	1.10E-08	1.63E-09	1.63E-09	8.05E-10	1.59E-08
1215	258568.5	4084114.19	1.0594E-08	1.42E-07	2.47E-08	2.47E-08	1.38E-08	2.15E-07	1.61E-09	2.16E-08	3.86E-09	3.86E-09	2.12E-09	3.30E-08	8.73E-10	1.17E-08	1.72E-09	1.72E-09	8.50E-10	1.68E-08
1216	258590.93	4084122.5	1.1166E-08	1.49E-07	2.61E-08	2.61E-08	1.45E-08	2.27E-07	1.69E-09	2.27E-08	4.07E-09	4.07E-09	2.24E-09	3.48E-08	9.20E-10	1.23E-08	1.81E-09	1.81E-09	8.96E-10	1.77E-08
1217	258613.37	4084130.8	1.1742E-08	1.57E-07	2.74E-08	2.74E-08	1.53E-08	2.39E-07	1.78E-09	2.39E-08	4.28E-09	4.28E-09	2.35E-09	3.66E-08	9.68E-10	1.29E-08	1.90E-09	1.90E-09	9.42E-10	1.86E-08
1218	258635.8	4084139.11	1.2319E-08	1.65E-07	2.87E-08	2.87E-08	1.60E-08	2.50E-07	1.87E-09	2.51E-08	4.49E-09	4.49E-09	2.47E-09	3.84E-08	1.02E-09	1.36E-08	2.00E-09	2.00E-09	9.88E-10	1.96E-08
1219	258658.24	4084147.41	1.2893E-08	1.72E-07	3.01E-08	3.01E-08	1.68E-08	2.62E-07	1.96E-09	2.62E-08	4.70E-09	4.70E-09	2.58E-09	4.02E-08	1.06E-09	1.42E-08	2.09E-09	2.09E-09	1.03E-09	2.05E-08
1220	258680.67	4084155.72	1.346E-08	1.80E-07	3.14E-08	3.14E-08	1.75E-08	2.74E-07	2.04E-09	2.74E-08	4.90E-09	4.90E-09	2.70E-09	4.19E-08	1.11E-09	1.48E-08	2.18E-09	2.18E-09	1.08E-09	2.14E-08
1221	258703.11	4084164.03	1.4016E-08	1.87E-07	3.27E-08	3.27E-08	1.82E-08	2.85E-07	2.13E-09	2.85E-08	5.11E-09	5.11E-09	2.81E-09	4.37E-08	1.16E-09	1.54E-08	2.27E-09	2.27E-09	1.12E-09	2.23E-08
1222	258725.54	4084172.33	1.4557E-08	1.94E-07	3.40E-08	3.40E-08	1.89E-08	2.96E-07	2.21E-09	2.96E-08	5.30E-09	5.30E-09	2.92E-09	4.54E-08	1.20E-09	1.60E-08	2.36E-09	2.36E-09	1.17E-09	2.31E-08
1223	258747.98	4084180.64	1.508E-08	2.01E-07	3.52E-08	3.52E-08	1.96E-08	3.06E-07	2.29E-09	3.07E-08	5.49E-09	5.49E-09	3.02E-09	4.70E-08	1.24E-09	1.66E-08	2.44E-09	2.44E-09	1.21E-09	2.39E-08
1224	258770.41	4084188.95	1.5577E-08	2.08E-07	3.63E-08	3.63E-08	2.03E-08	3.17E-07	2.36E-09	3.17E-08	5.67E-09	5.67E-09	3.12E-09	4.85E-08	1.28E-09	1.72E-08	2.52E-09	2.52E-09	1.25E-09	2.47E-08
1225	258792.85	4084197.25	1.6049E-08	2.14E-07	3.74E-08	3.74E-08	2.09E-08	3.26E-07	2.44E-09	3.27E-08	5.85E-09	5.85E-09	3.21E-09	5.00E-08	1.32E-09	1.77E-08	2.60E-09	2.60E-09	1.29E-09	2.55E-08
1226	258815.28	4084205.56	1.6488E-08	2.20E-07	3.85E-08	3.85E-08	2.14E-08	3.35E-07	2.50E-09	3.36E-08	6.01E-09	6.01E-09	3.30E-09	5.14E-08	1.36E-09	1.82E-08	2.67E-09	2.67E-09	1.32E-09	2.62E-08

1227	258837.72	4084213.87	1.6889E-08	2.26E-07	3.94E-08	3.94E-08	2.20E-08	3.43E-07	2.56E-09	3.44E-08	6.15E-09	6.15E-09	3.38E-09	5.26E-08	1.39E-09	1.86E-08	2.74E-09	2.74E-09	1.35E-09	2.68E-08
1228	258860.15	4084222.17	1.7243E-08	2.30E-07	4.02E-08	4.02E-08	2.24E-08	3.50E-07	2.62E-09	3.51E-08	6.28E-09	6.28E-09	3.45E-09	5.37E-08	1.42E-09	1.90E-08	2.79E-09	2.79E-09	1.38E-09	2.74E-08
1229	258882.59	4084230.48	1.7538E-08	2.34E-07	4.09E-08	4.09E-08	2.28E-08	3.56E-07	2.66E-09	3.57E-08	6.39E-09	6.39E-09	3.51E-09	5.46E-08	1.45E-09	1.93E-08	2.84E-09	2.84E-09	1.41E-09	2.78E-08
1230	258905.02	4084238.78	1.7798E-08	2.38E-07	4.15E-08	4.15E-08	2.32E-08	3.62E-07	2.70E-09	3.62E-08	6.48E-09	6.48E-09	3.56E-09	5.55E-08	1.47E-09	1.96E-08	2.88E-09	2.88E-09	1.43E-09	2.83E-08
1231	258927.46	4084247.09	1.799E-08	2.40E-07	4.20E-08	4.20E-08	2.34E-08	3.66E-07	2.73E-09	3.66E-08	6.55E-09	6.55E-09	3.60E-09	5.60E-08	1.48E-09	1.98E-08	2.92E-09	2.92E-09	1.44E-09	2.86E-08
1232	258949.89	4084255.4	1.8119E-08	2.42E-07	4.23E-08	4.23E-08	2.36E-08	3.68E-07	2.75E-09	3.69E-08	6.60E-09	6.60E-09	3.63E-09	5.65E-08	1.49E-09	2.00E-08	2.94E-09	2.94E-09	1.45E-09	2.88E-08
1233	258982.19	4084285.5	1.8737E-08	2.50E-07	4.37E-08	4.37E-08	2.44E-08	3.81E-07	2.84E-09	3.81E-08	6.83E-09	6.83E-09	3.75E-09	5.84E-08	1.54E-09	2.06E-08	3.04E-09	3.04E-09	1.50E-09	2.98E-08
1234	258992.05	4084307.3	1.9229E-08	2.57E-07	4.49E-08	4.49E-08	2.50E-08	3.91E-07	2.92E-09	3.91E-08	7.00E-09	7.00E-09	3.85E-09	5.99E-08	1.59E-09	2.12E-08	3.12E-09	3.12E-09	1.54E-09	3.05E-08
1235	259001.91	4084329.09	1.9639E-08	2.62E-07	4.58E-08	4.58E-08	2.55E-08	3.99E-07	2.98E-09	4.00E-08	7.15E-09	7.15E-09	3.93E-09	6.12E-08	1.62E-09	2.16E-08	3.18E-09	3.18E-09	1.58E-09	3.12E-08
1236	259011.77	4084350.89	1.9985E-08	2.67E-07	4.66E-08	4.66E-08	2.60E-08	4.06E-07	3.03E-09	4.07E-08	7.28E-09	7.28E-09	4.00E-09	6.23E-08	1.65E-09	2.20E-08	3.24E-09	3.24E-09	1.60E-09	3.17E-08
1237	259021.63	4084372.69	2.0255E-08	2.71E-07	4.73E-08	4.73E-08	2.63E-08	4.12E-07	3.07E-09	4.12E-08	7.38E-09	7.38E-09	4.06E-09	6.31E-08	1.67E-09	2.23E-08	3.28E-09	3.28E-09	1.62E-09	3.22E-08
1238	259031.5	4084394.48	2.0435E-08	2.73E-07	4.77E-08	4.77E-08	2.66E-08	4.15E-07	3.10E-09	4.16E-08	7.44E-09	7.44E-09	4.09E-09	6.37E-08	1.68E-09	2.25E-08	3.31E-09	3.31E-09	1.64E-09	3.24E-08
1239	259041.36	4084416.28	2.0528E-08	2.74E-07	4.79E-08	4.79E-08	2.67E-08	4.17E-07	3.12E-09	4.18E-08	7.48E-09	7.48E-09	4.11E-09	6.40E-08	1.69E-09	2.26E-08	3.33E-09	3.33E-09	1.65E-09	3.26E-08
1240	259051.22	4084438.08	2.0526E-08	2.74E-07	4.79E-08	4.79E-08	2.67E-08	4.17E-07	3.12E-09	4.18E-08	7.48E-09	7.48E-09	4.11E-09	6.40E-08	1.69E-09	2.26E-08	3.33E-09	3.33E-09	1.65E-09	3.26E-08
1241	259061.08	4084459.87	2.0431E-08	2.73E-07	4.77E-08	4.77E-08	2.66E-08	4.15E-07	3.10E-09	4.16E-08	7.44E-09	7.44E-09	4.09E-09	6.37E-08	1.68E-09	2.25E-08	3.31E-09	3.31E-09	1.64E-09	3.24E-08
1242	259070.94	4084481.67	2.0251E-08	2.71E-07	4.72E-08	4.72E-08	2.63E-08	4.12E-07	3.07E-09	4.12E-08	7.38E-09	7.38E-09	4.06E-09	6.31E-08	1.67E-09	2.23E-08	3.28E-09	3.28E-09	1.62E-09	3.22E-08
1243	259080.8	4084503.47	1.9987E-08	2.67E-07	4.66E-08	4.66E-08	2.60E-08	4.06E-07	3.03E-09	4.07E-08	7.28E-09	7.28E-09	4.00E-09	6.23E-08	1.65E-09	2.20E-08	3.24E-09	3.24E-09	1.60E-09	3.17E-08
1244	259090.66	4084525.26	1.9642E-08	2.62E-07	4.58E-08	4.58E-08	2.55E-08	3.99E-07	2.98E-09	4.00E-08	7.16E-09	7.16E-09	3.93E-09	6.12E-08	1.62E-09	2.16E-08	3.18E-09	3.18E-09	1.58E-09	3.12E-08
1245	259100.52	4084547.06	1.9227E-08	2.57E-07	4.49E-08	4.49E-08	2.50E-08	3.91E-07	2.92E-09	3.91E-08	7.00E-09	7.00E-09	3.85E-09	5.99E-08	1.58E-09	2.12E-08	3.12E-09	3.12E-09	1.54E-09	3.05E-08
1246	259110.38	4084568.86	1.8746E-08	2.50E-07	4.37E-08	4.37E-08	2.44E-08	3.81E-07	2.85E-09	3.81E-08	6.83E-09	6.83E-09	3.75E-09	5.84E-08	1.55E-09	2.06E-08	3.04E-09	3.04E-09	1.50E-09	2.98E-08
1247	259120.24	4084590.65	1.8212E-08	2.43E-07	4.25E-08	4.25E-08	2.37E-08	3.70E-07	2.76E-09	3.71E-08	6.63E-09	6.63E-09	3.65E-09	5.67E-08	1.50E-09	2.01E-08	2.95E-09	2.95E-09	1.46E-09	2.89E-08
1248	259130.1	4084612.45	1.7633E-08	2.36E-07	4.11E-08	4.11E-08	2.29E-08	3.58E-07	2.68E-09	3.59E-08	6.42E-09	6.42E-09	3.53E-09	5.49E-08	1.45E-09	1.94E-08	2.86E-09	2.86E-09	1.41E-09	2.80E-08
1249	259139.97	4084634.25	1.7017E-08	2.27E-07	3.97E-08	3.97E-08	2.21E-08	3.46E-07	2.58E-09	3.46E-08	6.20E-09	6.20E-09	3.41E-09	5.30E-08	1.40E-09	1.87E-08	2.76E-09	2.76E-09	1.37E-09	2.70E-08
1250	259149.83	4084656.04	1.6374E-08	2.19E-07	3.82E-08	3.82E-08	2.13E-08	3.33E-07	2.49E-09	3.33E-08	5.96E-09	5.96E-09	3.28E-09	5.10E-08	1.35E-09	1.80E-08	2.65E-09	2.65E-09	1.31E-09	2.60E-08
1251	259159.69	4084677.84	1.5736E-08	2.10E-07	3.67E-08	3.67E-08	2.05E-08	3.20E-07	2.39E-09	3.20E-08	5.73E-09	5.73E-09	3.15E-09	4.90E-08	1.30E-09	1.73E-08	2.55E-09	2.55E-09	1.26E-09	2.50E-08
1252	259169.55	4084699.64	1.506E-08	2.01E-07	3.51E-08	3.51E-08	1.96E-08	3.06E-07	2.29E-09	3.06E-08	5.49E-09	5.49E-09	3.02E-09	4.69E-08	1.24E-09	1.66E-08	2.44E-09	2.44E-09	1.21E-09	2.39E-08
1253	259179.41	4084721.43	1.4344E-08	1.92E-07	3.35E-08	3.35E-08	1.87E-08	2.92E-07	2.18E-09	2.92E-08	5.23E-09	5.23E-09	2.87E-09	4.47E-08	1.18E-09	1.58E-08	2.32E-09	2.32E-09	1.15E-09	2.28E-08
1254	259189.27	4084743.23	1.3657E-08	1.82E-07	3.19E-08	3.19E-08	1.78E-08	2.78E-07	2.07E-09	2.78E-08	4.97E-09	4.97E-09	2.74E-09	4.25E-08	1.13E-09	1.50E-08	2.21E-09	2.21E-09	1.10E-09	2.17E-08
1255	259199.13	4084765.03	1.2995E-08	1.74E-07	3.03E-08	3.03E-08	1.69E-08	2.64E-07	1.97E-09	2.64E-08	4.73E-09	4.73E-09	2.60E-09	4.05E-08	1.07E-09	1.43E-08	2.11E-09	2.11E-09	1.04E-09	2.06E-08
1256	259208.99	4084786.82	1.2312E-08	1.64E-07	2.87E-08	2.87E-08	1.60E-08	2.50E-07	1.87E-09	2.51E-08	4.49E-09	4.49E-09	2.47E-09	3.84E-08	1.01E-09	1.36E-08	2.00E-09	2.00E-09	9.88E-10	1.95E-08
1257	259218.85	4084808.62	1.1689E-08	1.56E-07	2.73E-08	2.73E-08	1.52E-08	2.38E-07	1.77E-09	2.38E-08	4.26E-09	4.26E-09	2.34E-09	3.64E-08	9.64E-10	1.29E-08	1.89E-09	1.89E-09	9.38E-10	1.86E-08
1258	259228.71	4084830.42	1.1106E-08	1.48E-07	2.59E-08	2.59E-08	1.44E-08	2.26E-07	1.69E-09	2.26E-08	4.05E-09	4.05E-09	2.22E-09	3.46E-08	9.15E-10	1.22E-08	1.80E-09	1.80E-09	8.91E-10	1.76E-08
1259	259238.58	4084852.21	1.0557E-08	1.41E-07	2.46E-08	2.46E-08	1.37E-08	2.15E-07	1.60E-09	2.15E-08	3.85E-09	3.85E-09	2.11E-09	3.29E-08	8.70E-10	1.16E-08	1.71E-09	1.71E-09	8.47E-10	1.68E-08
1260	259248.44	4084874.01	1.004E-08	1.34E-07	2.34E-08	2.34E-08	1.31E-08	2.04E-07	1.52E-09	2.04E-08	3.66E-09	3.66E-09	2.01E-09	3.13E-08	8.28E-10	1.11E-08	1.63E-09	1.63E-09	8.05E-10	1.59E-08
1261	258321.71	4084022.82	5.4354E-09	7.26E-08	1.27E-08	1.27E-08	7.07E-09	1.10E-07	8.25E-10	1.11E-08	1.98E-09	1.98E-09	1.09E-09	1.69E-08	4.48E-10	5.98E-09	8.81E-10	8.81E-10	4.36E-10	8.63E-09
1262	258297.38	4084023.82	5.2276E-09	6.98E-08	1.22E-08	1.22E-08	6.80E-09	1.06E-07	7.93E-10	1.06E-08	1.90E-09	1.90E-09	1.05E-09	1.63E-08	4.31E-10	5.76E-09	8.47E-10	8.47E-10	4.19E-10	8.30E-09
1263	258273.05	4084024.82	5.0309E-09	6.72E-08	1.17E-08	1.17E-08	6.54E-09	1.02E-07	7.64E-10	1.02E-08	1.83E-09	1.83E-09	1.01E-09	1.57E-08	4.15E-10	5.54E-09	8.15E-10	8.15E-10	4.04E-10	7.99E-09
1264	258248.72	4084025.82	4.8395E-09	6.46E-08	1.13E-08	1.13E-08	6.29E-09	9.84E-08	7.34E-10	9.85E-09	1.76E-09	1.76E-09	9.69E-10	1.51E-08	3.99E-10	5.33E-09	7.84E-10	7.84E-10	3.88E-10	7.68E-09
1265	258224.38	4084026.82	4.6555E-09	6.22E-08	1.09E-08	1.09E-08	6.06E-09	9.46E-08	7.07E-10	9.47E-09	1.70E-09	1.70E-09	9.32E-10	1.45E-08	3.84E-10	5.13E-09	7.55E-10	7.55E-10	3.73E-10	7.39E-09
1266	258200.05	4084027.82	4.4769E-09	5.98E-08	1.04E-08	1.04E-08	5.82E-09	9.10E-08	6.79E-10	9.11E-09	1.63E-09	1.63E-09	8.97E-10	1.39E-08	3.69E-10	4.93E-09	7.26E-10	7.26E-10	3.59E-10	7.11E-09
1267	258175.72	4084028.82	4.3057E-09	5.75E-08	1.00E-08	1.00E-08	5.60E-09	8.75E-08	6.53E-10	8.76E-09	1.57E-09	1.57E-09	8.62E-10	1.34E-08	3.55E-10	4.74E-09	6.98E-10	6.98E-10	3.45E-10	6.84E-09
1268	258151.39	4084029.82	4.138E-09	5.53E-08	9.65E-09	9.65E-09	5.38E-09	8.41E-08	6.28E-10	8.42E-09	1.51E-09	1.51E-09	8.29E-10	1.29E-08	3.41E-10	4.56E-09	6.71E-10	6.71E-10	3.32E-10	6.57E-09
1269	258127.06	4084030.82	3.9777E-09	5.31E-08	9.28E-09	9.28E-09	5.17E-09	8.08E-08	6.04E-10	8.09E-09	1.45E-09	1.45E-09	7.97E-10	1.24E-08	3.28E-10	4.38E-09	6.45E-10	6.45E-10	3.19E-10	6.32E-09
1270	258102.73	4084031.82	3.8228E-09	5.11E-08	8.92E-09	8.92E-09	4.97E-09	7.77E-08	5.80E-10	7.78E-09	1.39E-09	1.39E-09	7.66E-10	1.19E-08	3.15E-10	4.21E-09	6.20E-10	6.20E-10	3.07E-10	6.07E-09
1271	258078.39	4084032.82	3.6734E-09	4.91E-08	8.57E-09	8.57E-09	4.78E-09	7.47E-08	5.58E-10	7.48E-09	1.34E-09	1.34E-09	7.36E-10	1.14E-08	3.03E-10	4.04E-09	5.95E-10	5.95E-10	2.95E-10	5.83E-09
1272	258054.06	4084033.82	3.5294E-09	4.71E-08	8.23E-09	8.23E-09	4.59E-09	7.17E-08	5.36E-10	7.18E-09	1.29E-09	1.29E-09	7.07E-10	1.10E-08	2.91E-10	3.89E-09	5.72E-10	5.72E-10	2.83E-10	5.60E-09
1273	258029.73	4084034.82	3.3928E-09	4.53E-08	7.92E-09	7.92E-09	4.41E-09	6.90E-08	5.15E-10	6.90E-09	1.24E-09	1.24E-09	6.79E-10	1.06E-08	2.80E-10	3.74E-09	5.50E-10	5.50E-10	2.72E-10	5.39E-09
1274	258005.4	4084035.82	3.2634E-09	4.36E-08	7.61E-09	7.61E-09	4.24E-09	6.63E-08	4.95E-10	6.64E-09	1.19E-09	1.19E-09	6.54E-10	1.02E-08	2.69E-10	3.59E-09	5.29E-10	5.29E-10	2.62E-10	5.18E-09
1275	257981.07	4084036.82	3.1431E-09	4.20E-08	7.33E-09	7.33E-09	4.09E-09	6.39E-08	4.77E-10	6.40E-09	1.14E-09	1.14E-09	6.29E-10	9.79E-09	2.59E-10	3.46E-09	5.09E-10	5.09E-10	2.52E-10	4.99E-09
1276	257956.73	4084037.82	3.0284E-09	4.05E-08	7.07E-09	7.07E-09	3.94E-09	6.15E-08	4.60E-10	6.16E-09	1.10E-09	1.10E-09	6.06E-10	9.43E-09	2.50E-10	3.33E-09	4.91E-10	4.91E-10	2.43E-10	4.81E-09
1277	257932.4	4084038.82	2.9227E-09	3.90E-08	6.82E-09	6.82E-09	3.80E-09	5.94E-08	4.44E-10	5.95E-09	1.06E-09	1.06E-09	5.85E-10	9.11E-09	2.41E-10	3.22E-09	4.74E-10	4.74E-10	2.34E-10	4.64E-09
1278	257908.07	4084039.82	2.8261E-09	3.78E-08	6.59E-09	6.59E-09	3.68E-09	5.74E-08	4.29E-10	5.75E-09	1.03E-09	1.03E-09	5.66E-10	8.80E-09	2.33E-10	3.11E-09	4.58E-10	4.58E-10	2.27E-10	4.49E-09
1279	257883.74	4084040.83	2.7368E-09	3.66E-08	6.39E-09	6.39E-09	3.56E-09	5.56E-08	4.15E-10	5.57E-09	9.97E-10	9.97E-10	5.48E-10	8.53E-09	2.26E-10	3.01E-09	4.44E-10	4.44E-10	2.20E-10	4.35E-09
1280	257859.41	4084041.83	2.6548E-09	3.55E-08	6.19E-09	6.19E-09	3.45E-09	5.40E-08	4.03E-10	5.40E-09	9.67E-10	9.67E-10	5.32E-10	8.27E-09	2.19E-10	2.92E-09	4.30E-10	4.30E-10	2.13E-10	4.22E-09
1281	257835.08	4084042.83	2.5801E-09	3.45E-08	6.02E-09	6.02E-09	3.36E-09	5.24E-08	3.92E-10	5.25E-09	9.40E-10	9.40E-10	5.17E-10	8.04E-09	2.13E-10	2.84E-09	4.18E-10	4.18E-10	2.07E-10	4.10E-09
1282	257810.74	4084043.83	2.5109E-09	3.35E-08	5.86E-09	5.86E-09	3.27E-09	5.10E-08	3.81E-10	5.11E-09	9.15E-10	9.15E-10	5.03E-10	7.82E-09	2.07E-10	2.76E-09	4.07E-10	4.07E-10	2.01E-10	3.99E-09
1283	257786.41	4084044.83	2.4489E-09	3.27E-08	5.71E-09	5.71E-09	3.19E-09	4.98E-08	3.72E-10	4.98E-09	8.92E-10	8.92E-10	4.90E-10	7.63E-09	2.02E-10	2.70E-09	3.97E-10	3.97E-10	1.96E-10	3.89E-09
1284	257762.08	4084045.83	2.3924E-09	3.20E-08	5.58E-09	5.58E-09	3.11E-09	4.86E-08	3.63E-10	4.87E-09	8.72E-10	8.72E-10	4.79E-10	7.45E-09	1.97E-10	2.63E-09	3.88E-10	3.88E-10	1.92E-10	3.80E-09
1285	257737.75	4084046.83	2.3414E-09	3.13E-08	5.46E-09	5.46E-09	3.05E-09	4.76E-08	3.55E-10	4.76E-09	8.53E-10	8.53E-10	4.69E-10	7.29E-09	1.93E-10	2.58E-09	3.79E-10	3.79E-10	1.88E-10	3.72E-09
1286	257713.42	4084047.83	2.2922E-09	3.06E-08	5.35E-09	5.35E-09	2.98E-09	4.66E-08	3.48E-10	4.66E-09	8.35E-10	8.35E-10	4.59E-10	7.14E-09	1.89E-10	2.52E-09	3.72E-10	3.72E-10	1.84E-10	3.64E-09
1287	257689.08	4084048.83	2.2485E-09	3.00E-08	5.25E-09	5.25E-09	2.92E-09	4.57E-08	3.41E-10	4.58E-09	8.19E-10	8.19E-10	4.50E-10	7.01E-09	1.85E-10	2.48E-09	3.64E-10	3.64E-10	1.80E-10	3.57E-09
1288	257664.75	4084049.83	2.2048E-09	2.95E-08	5.14E-09	5.14E-09	2.87E-09	4.48E-08	3.35E-10	4.49E-09	8.03E-10	8.03E-10	4.42E-10	6.87E-09	1.82E-10	2.43E-09	3.57E-10	3.57E-10	1.77E-10	3.50E-09
1289	257640.42	4084050.83	2.1629E-09	2.89E-08	5.05E-09	5.05E-09	2.81E-09	4.40E-08	3.28E-10	4.40E-09	7.88E-10	7.88E-10	4.33E-10	6.74E-09	1.78E-10	2.38E-09	3.51E-10	3.51E-10	1.74E-10	3.43E-09
1290	257616.09	4084051.83	2.1209E-09	2.83E-08	4.95E-09	4.95E-09	2.76E-09	4.31E-08	3.22E-10	4.32E-09	7.73E-10	7.73E-10	4.25E-10	6.61E-09	1.75E-10	2.34E-09	3.44E-10	3.44E-10	1.70E-10	3.37E-09
1291	257591.76	4084052.83	2.079E-09	2.78E-08	4.85E-09	4.85E-09	2.70E-09	4.23E-08	3.16E-10	4.23E-09	7.57E-10	7.57E-10	4.16E-10	6.48E-09	1.71E-10	2.29E-09	3.37E-10	3.37E-10	1.67E-10	3.30E-09
1292	257567.43	4084053.83	2.0353E-09	2.72E-08	4.75E-09	4.75E-09	2.65E-09	4.14E-08	3.09E-10	4.14E-09	7.41E-10	7.41E-10	4.08E-10	6.34E-09	1.68E-10	2.24E-09	3.30E-10	3.30E-10	1.63E-10	3.23E-09
1293	257543.09	4084054.83	1.9916E-09	2.66E-08	4.65E-09	4.65E-09	2.59E-09	4.05E-08	3.02E-10	4.05E-09	7.25E-10	7.25E-10	3.99E-10	6.20E-09	1.64E-10	2.19E-09	3.23E-10	3.23E-10	1.60E-10	3.16E-09
1294	257518.76	4084055.83	1.9478E-09	2.60E-08	4.54E-09	4.54E-09	2.53E-09	3.96E-08	2.96E-10	3.96E-09	7.10E-10	7.10E-10	3.90E-10	6.07E-09	1.61E-10	2.14E-09	3.16E-10	3.16E-10	1.56E-10	3.09E-09
1295	258336.22	4083831.4	3.4383E-09	4.59E-08	8.02E-09	8.02E-09	4.47E-09	6.99E-08	5.22E-10	7.00E-09	1.25E-09	1.25E-09	6.89E-10	1.07E-08	2.83E-10	3.79E-09	5.57E-10	5.57E-10	2.76E-10	5.46E-09
1296	258358.94	4083839.81	3.6169E-09	4.83E-08	8.44E-09	8.44E-09	4.70E-09	7.35E-08	5.49E-10	7.36E-09	1.32E-09	1.32E-09	7.24E-10	1.13E-08	2.98E-10	3.98E-09	5.86E-10	5.86E-10	2.90E-10	5.74E-09
1297	258381.66	4083848.22	3.81E-09	5.09E-08	8.89E-09	8.89E-09	4.96E-09	7.74E-08	5.78E-10	7.75E-09	1.39E-09	1.39E-09	7.63E-10	1.19E-08	3.14E-10	4.20E-09	6.18E-10	6.18E-10	3.06E-10	6.05E-09
1298	258404.38	4083856.64	4.0196E-09	5.37E-08	9.38E-09	9.38E-09	5.23E-09	8.17E-08	6.10E-10	8.18E-09	1.46E-09	1.46E-09	8.05E-10	1.25E-08	3.31E-10	4.43E-09	6.51E-10	6.51E-10	3.22E-10	6.38E-09
1299	258427.1	4083865.05	4.2455E-09	5.67E-08	9.91E-09	9.91E-09	5.52E-09	8.63E-08	6.44E-10	8.64E-09	1.55E-09	1.55E-09	8.50E-10	1.32E-08	3.50E-10	4.67E-09	6.88E-10	6.88E-10	3.41E-10	6.74E-09
1300	258449.82	4083873.46	4.4897E-09	6.00E-08	1.05E-08	1.05E-08	5.84E-09	9.13E-08	6.81E-10	9.14E-09	1.64E-09	1.64E-09	8.99E-10	1.40E-08	3.70E-10	4.94E-09	7.28E-10	7.28E-10	3.60E-10	7.13E-09
1301	258472.54	4083881.87	4.7521E-09	6.35E-08	1.11E-08	1.11E-08	6.18E-09	9.66E-08	7.21E-10	9.67E-09	1.73E-09	1.73E-09	9.52E-10	1.48E-08	3.92E-10	5.23E-09	7.70E-10	7.70E-10	3.81E-10	7.55E-09
1302	258495.26	4083890.28	5.029E-09	6.72E-08	1.17E-08	1.17E-08	6.54E-09	1.02E-07	7.63E-10	1.02E-08	1.83E-09	1.83E-09	1.01E-09	1.57E-08	4.15E-10	5.54E-09	8.15E-10	8.15E-10	4.03E-10	7.99E-09
1303	258517.98	4083898.69	5.3224E-09	7.11E-08	1.24E-08	1.24E-08	6.92E-09	1.08E-07	8.08E-10	1.08E-08	1.94E-09	1.94E-09	1.07E-09	1.66E-08	4.39E-10	5.86E-09	8.63E-10	8.63E-10	4.27E-10	8.45E-09
1304	258540.7	4083907.11	5.6303E-09	7.52E-08	1.31E-08	1.31E-08	7.32E-09	1.14E-07	8.55E-10	1.15E-08	2.05E-09	2.05E-09	1.13E-09	1.75E-08	4.64E-10	6.20E-09	9.13E-10	9.13E-10	4.52E-10	8.94E-09
1305	258563.42	4083915.52	5.9547E-09	7.95E-08	1.39E-08	1.39E-08	7.75E-09	1.21E-07	9.04E-10	1.21E-08	2.17E-09	2.17E-09	1.19E-09	1.86E-08	4.91E-10	6.56E-09	9.65E-10	9.65E-10	4.78E-10	9.46E-09
1306	258586.14	4083923.93	6.2918E-09	8.40E-08	1.47E-08	1.47E-08	8.18E-09	1.28E-07	9.55E-10	1.28E-08	2.29E-09	2.29E-09	1.26E-09	1.96E-08	5.19E-10	6.93E-09	1.02E-09	1.02E-09	5.05E-10	9.99E-09
1307	258608.86	4083932.34	6.6416E-09	8.87E-08	1.55E-08	1.55E-08	8.64E-09	1.35E-07	1.01E-09	1.35E-08	2.42E-09	2.42E-09	1.33E-09	2.07E-08	5.47E-10	7.31E-09	1.08E-09	1.08E-09	5.33E-10	1.05E-08
1308	258631.58	4083940.75	7.0042E-09	9.36E-08	1.63E-08	1.63E-08	9.11E-09	1.42E-07	1.06E-09	1.43E-08	2.55E-09	2.55E-09	1.40E-09	2.18E-08	5.77E-10	7.71E-09	1.14E-09	1.14E-09	5.62E-10	1.11E-08
1309	258654.3	4083949.17	7.3759E-09	9.85E-08	1.72E-08	1.72E-08	9.59E-09	1.50E-07	1.12E-09	1.50E-08	2.69E-09	2.69E-09	1.48E-09	2.30E-08	6.08E-10	8.12E-09	1.20E-09	1.20E-09	5.92E-10	1.17E-08
1310	258677.02	4083957.58	7.7567E-09	1.04E-07	1.81E-08	1.81E-08	1.01E-08	1.58E-07	1.18E-09	1.58E-08	2.83E-09	2.83E-09	1.55E-09	2.42E-08	6.39E-10	8.54E-09	1.26E-09	1.26E-09	6.22E-10	1.23E-08
1311	258699.74	4083965.99	8.1449E-09	1.09E-07	1.90E-08	1.90E-08	1.06E-08	1.66E-07	1.24E-09	1.66E-08	2.97E-09	2.97E-09	1.63E-09	2.54E-08	6.71E-10	8.97E-09	1.32E-09	1.32E-09	6.53E-10	1.29E-08
1312	258722.46	4083974.4	8.5366E-09	1.14E-07	1.99E-08	1.99E-08	1.11E-08	1.74E-07	1.30E-09	1.74E-08	3.11E-09	3.11E-09	1.71E-09	2.66E-08	7.04E-10	9.40E-09	1.38E-09	1.38E-09	6.85E-10	1.36E-08
1313	258745.18	4083982.81	8.932E-09	1.19E-07	2.08E-08	2.08E-08	1.16E-08	1.82E-07	1.36E-09	1.82E-08	3.25E-09	3.25E-09	1.79E-09	2.78E-08	7.36E-10	9.83E-09	1.45E-09	1.45E-09	7.17E-10	1.42E-08
1314	258767.9	4083991.22	9.3256E-09	1.25E-07	2.18E-08	2.18E-08	1.21E-08	1.90E-07	1.42E-09	1.90E-08	3.40E-09	3.40E-09	1.87E-09	2.91E-08	7.69E-10	1.03E-08	1.51E-09	1.51E-09	7.48E-10	1.48E-08
1315	258790.62	4083999.64	9.7173E-09	1.30E-07	2.27E-08	2.27E-08	1.26E-08	1.97E-07	1.47E-09	1.98E-08	3.54E-09	3.54E-09	1.95E-09	3.03E-08	8.01E-10	1.07E-08	1.57E-09	1.57E-09	7.80E-10	1.54E-08
1316	258813.34	4084008.05	1.0104E-08	1.35E-07	2.36E-08	2.36E-08	1.31E-08	2.05E-07	1.53E-09	2.06E-08	3.68E-09	3.68E-09	2.02E-09	3.15E-08	8.33E-10	1.11E-08	1.64E-09	1.64E-09	8.11E-10	1.60E-08
1317	258836.06	4084016.46	1.0483E-08	1.40E-07	2.45E-08	2.45E-08	1.36E-08	2.13E-07	1.59E-09	2.13E-08	3.82E-09	3.82E-09	2.10E-09	3.27E-08	8.64E-10	1.15E-08	1.70E-09	1.70E-09	8.41E-10	1.66E-08
1318	258858.78	4084024.87	1.0854E-08	1.45E-07	2.53E-08	2.53E-08	1.41E-08	2.21E-07	1.65E-09	2.21E-08	3.95E-09	3.95E-09	2.17E-09	3.38E-08	8.95E-10	1.20E-08	1.76E-09	1.76E-09	8.71E-10	1.72E-08
1319	258881.5	4084033.28	1.1213E-08	1.50E-07	2.62E-08	2.62E-08	1.46E-08	2.28E-07	1.70E-09	2.28E-08	4.08E-09	4.08E-09	2.25E-09	3.49E-08	9.24E-10	1.23E-08	1.82E-09	1.82E-09	9.00E-10	1.78E-08
1320	258904.22	4084041.7	1.1556E-08	1.54E-07	2.70E-08	2.70E-08	1.50E-08	2.35E-07	1.75E-09	2.35E-08	4.21E-09	4.21E-09	2.31E-09	3.60E-08	9.53E-10	1.27E-08	1.87E-09	1.87E-09	9.27E-10	1.83E-08
1321	258926.94	4084050.11	1.1878E-08	1.59E-07	2.77E-08	2.77E-08	1.55E-08	2.41E-07	1.80E-09	2.42E-08	4.33E-09	4.33E-09	2.38E-09	3.70E-08	9.79E-10	1.31E-08	1.93E-09	1.93E-09	9.53E-10	1.89E-08
1322	258949.66	4084058.52	1.2152E-08	1.62E-07	2.84E-08	2.84E-08	1.58E-08	2.47E-07	1.84E-09	2.47E-08	4.43E-09	4.43E-09	2.43E-09	3.79E-08	1.00E-09	1.34E-08	1.97E-09	1.97E-09	9.75E-10	1.93E-08
1323	258972.38	4084066.93	1.2423E-08	1.66E-07	2.90E-08	2.90E-08	1.62E-08	2.52E-07	1.89E-09	2.53E-08	4.53E-09	4.53E-09	2.49E-09	3.87E-08	1.02E-09	1.37E-08	2.01E-09	2.01E-09	9.97E-10	1.97E-08
1324	258995.1	4084075.34	1.2671E-08	1.69E-07	2.96E-08	2.96E-08	1.65E-08	2.58E-07	1.92E-09	2.58E-08	4.62E-09	4.62E-09	2.54E-09	3.95E-08	1.04E-09	1.40E-08	2.05E-09	2.05E-09	1.02E-09	2.01E-08
1325	259017.82	4084083.75	1.2891E-08	1.72E-07	3.01E-08	3.01E-08	1.68E-08	2.62E-07	1.96E-09	2.62E-08	4.70E-09	4.70E-09	2.58E-09	4.02E-08	1.06E-09	1.42E-08	2.09E-09	2.09E-09	1.03E-09	2.05E-08
1326	259040.54	4084092.17	1.3079E-08	1.75E-07	3.05E-08	3.05E-08	1.70E-08	2.66E-07	1.98E-09	2.66E-08	4.76E-09	4.76E-09	2.62E-09	4.07E-08	1.08E-09	1.44E-08	2.12E-09	2.12E-09	1.05E-09	2.08E-08
1327	259063.26	4084100.58	1.323E-08	1.77E-07	3.09E-08	3.09E-08	1.72E-08	2.69E-07	2.01E-09	2.69E-08	4.82E-09	4.82E-09	2.65E-09	4.12E-08	1.09E-09	1.46E-08	2.14E-09	2.14E-09	1.06E-09	2.10E-08
1328	259085.98	4084108.99	1.3347E-08	1.78E-07	3.11E-08	3.11E-08	1.74E-08	2.71E-07	2.03E-09	2.72E-08	4.86E-09	4.86E-09	2.67E-09	4.16E-08	1.10E-09	1.47E-08	2.16E-09	2.16E-09	1.07E-09	2.12E-08
1329	259118.68	4084139.48	1.3819E-08	1.85E-07	3.22E-08	3.22E-08	1.80E-08	2.81E-07	2.10E-09	2.81E-08	5.03E-09	5.03E-09	2.77E-09	4.31E-08	1.14E-09	1.52E-08	2.24E-09	2.24E-09	1.11E-09	2.19E-08
1330	259128.67	4084161.55	1.4182E-08	1.89E-07	3.31E-08	3.31E-08	1.84E-08	2.88E-07	2.15E-09	2.89E-08	5.17E-09	5.17E-09	2.84E-09	4.42E-08	1.17E-09	1.56E-08	2.30E-09	2.30E-09	1.14E-09	2.25E-08
1331	259138.66	4084183.62	1.4506E-08	1.94E-07	3.38E-08	3.38E-08	1.89E-08	2.95E-07	2.20E-09	2.95E-08	5.28E-09	5.28E-09	2.91E-09	4.52E-08	1.20E-09	1.60E-08	2.35E-09	2.35E-09	1.16E-09	2.30E-08
1332	259148.64	4084205.7	1.479E-08	1.98E-07	3.45E-08	3.45E-08	1.92E-08	3.01E-07	2.24E-09	3.01E-08	5.39E-09	5.39E-09	2.96E-09	4.61E-08	1.22E-09	1.63E-08	2.40E-09	2.40E-09	1.19E-09	2.35E-08
1333	259158.63	4084227.77	1.5027E-08	2.01E-07	3.51E-08	3.51E-08	1.95E-08	3.05E-07	2.28E-09	3.06E-08	5.47E-09	5.47E-09	3.01E-09	4.68E-08	1.24E-09	1.65E-08	2.44E-09	2.44E-09	1.21E-09	2.39E-08
1334	259168.61	4084249.84	1.5213E-08	2.03E-07	3.55E-08	3.55E-08	1.98E-08	3.09E-07	2.31E-09	3.10E-08	5.54E-09	5.54E-09	3.05E-09	4.74E-08	1.25E-09	1.68E-08	2.47E-09	2.47E-09	1.22E-09	2.42E-08
1335	259178.6	4084271.92	1.5344E-08	2.05E-07	3.58E-08	3.58E-08	2.00E-08	3.12E-07	2.33E-09	3.12E-08	5.59E-09	5.59E-09	3.07E-09	4.78E-08	1.26E-09	1.69E-08	2.49E-09	2.49E-09	1.23E-09	2.44E-08
1336	259188.59	4084293.99	1.5421E-08	2.06E-07	3.60E-08	3.60E-08	2.01E-08	3.13E-07	2.34E-09	3.14E-08	5.62E-09	5.62E-09	3.09E-09	4.80E-08	1.27E-09	1.70E-08	2.50E-09	2.50E-09	1.24E-09	2.45E-08
1337	259198.57	4084316.06	1.5439E-08	2.06E-07	3.60E-08	3.60E-08	2.01E-08	3.14E-07	2.34E-09	3.14E-08	5.62E-09	5.62E-09	3.09E-09	4.81E-08	1.27E-09	1.70E-08	2.50E-09	2.50E-09	1.24E-09	2.45E-08
1338	259208.56	4084338.14	1.5401E-08	2.06E-07	3.59E-08	3.59E-08	2.00E-08	3.13E-07	2.34E-09	3.13E-08	5.61E-09	5.61E-09	3.08E-09	4.80E-08	1.27E-09	1.70E-08	2.50E-09	2.50E-09	1.24E-09	2.45E-08
1339	259218.54	4084360.21	1.5311E-08	2.05E-07	3.57E-08	3.57E-08	1.99E-08	3.11E-07	2.32E-09	3.12E-08	5.58E-09	5.58E-09	3.07E-09	4.77E-08	1.26E-09	1.69E-08	2.48E-09	2.48E-09	1.23E-09	2.43E-08
1340	259228.53	4084382.28	1.5169E-08	2.03E-07	3.54E-08	3.54E-08	1.97E-08	3.08E-07	2.30E-09	3.09E-08	5.53E-09	5.53E-09	3.04E-09	4.73E-08	1.25E-09	1.67E-08	2.46E-09	2.46E-09	1.22E-09	2.41E-08
1341	259238.52	4084404.36	1.4978E-08	2.00E-07	3.49E-08	3.49E-08	1.95E-08	3.04E-07	2.27E-09	3.05E-08	5.46E-09	5.46E-09	3.00E-09	4.67E-08	1.23E-09	1.65E-08	2.43E-09	2.43E-09	1.20E-09	2.38E-08
1342	259248.5	4084426.43	1.4803E-08	1.98E-07	3.45E-08	3.45E-08	1.93E-08	3.01E-07	2.25E-09	3.01E-08	5.39E-09	5.39E-09	2.96E-09	4.61E-08	1.22E-09	1.63E-08	2.40E-09	2.40E-09	1.19E-09	2.35E-08
1343	259258.49	4084448.5	1.4533E-08	1.94E-07	3.39E-08	3.39E-08	1.89E-08	2.95E-07	2.21E-09	2.96E-08	5.29E-09	5.29E-09	2.91E-09	4.53E-08	1.20E-09	1.60E-08	2.36E-09	2.36E-09	1.17E-09	2.31E-08
1344	259268.48	4084470.58	1.4231E-08	1.90E-07	3.32E-08	3.32E-08	1.85E-08	2.89E-07	2.16E-09	2.90E-08	5.18E-09	5.18E-09	2.85E-09	4.43E-08	1.17E-09	1.57E-08	2.31E-09	2.31E-09	1.14E-09	2.26E-08
1345	259278.46	4084492.65	1.3903E-08	1.86E-07	3.24E-08	3.24E-08	1.81E-08	2.83E-07	2.11E-09	2.83E-08	5.06E-09	5.06E-09	2.78E-09	4.33E-08	1.15E-09	1.53E-08	2.25E-09	2.25E-09	1.12E-09	2.21E-08
1346	259288.45	4084514.72	1.3555E-08	1.81E-07	3.16E-08	3.16E-08	1.76E-08	2.75E-07	2.06E-09	2.76E-08	4.94E-09	4.94E-09	2.71E-09	4.22E-08	1.12E-09	1.49E-08	2.20E-09	2.20E-09	1.09E-09	2.15E-08
1347	259298.43	4084536.8	1.3192E-08	1.76E-07	3.08E-08	3.08E-08	1.72E-08	2.68E-07	2.00E-09	2.68E-08	4.81E-09	4.81E-09	2.64E-09	4.11E-08	1.09E-09	1.45E-08	2.14E-09	2.14E-09	1.06E-09	2.09E-08
1348	259308.42	4084558.87	1.2815E-08	1.71E-07	2.99E-08	2.99E-08	1.67E-08	2.60E-07	1.94E-09	2.61E-08	4.67E-09	4.67E-09	2.57E-09	3.99E-08	1.06E-09	1.41E-08	2.08E-09	2.08E-09	1.03E-09	2.03E-08
1349	259318.41	4084580.94	1.2425E-08	1.66E-07	2.90E-08	2.90E-08	1.62E-08	2.53E-07	1.89E-09	2.53E-08	4.53E-09	4.53E-09	2.49E-09	3.87E-08	1.02E-09	1.37E-08	2.01E-09	2.01E-09	9.97E-10	1.97E-08

1350	259328.39	4084603.02	1.202E-08	1.61E-07	2.80E-08	2.80E-08	1.56E-08	2.44E-07	1.82E-09	2.45E-08	4.38E-09	4.38E-09	2.41E-09	3.74E-08	9.91E-10	1.32E-08	1.95E-09	1.95E-09	9.64E-10	1.91E-08
1351	259338.38	4084625.09	1.16E-08	1.55E-07	2.71E-08	2.71E-08	1.51E-08	2.36E-07	1.76E-09	2.36E-08	4.23E-09	4.23E-09	2.32E-09	3.61E-08	9.56E-10	1.28E-08	1.88E-09	1.88E-09	9.31E-10	1.84E-08
1352	259348.36	4084647.16	1.1166E-08	1.49E-07	2.61E-08	2.61E-08	1.45E-08	2.27E-07	1.69E-09	2.27E-08	4.07E-09	4.07E-09	2.24E-09	3.48E-08	9.20E-10	1.23E-08	1.81E-09	1.81E-09	8.96E-10	1.77E-08
1353	259358.35	4084669.24	1.072E-08	1.43E-07	2.50E-08	2.50E-08	1.39E-08	2.18E-07	1.63E-09	2.18E-08	3.90E-09	3.90E-09	2.15E-09	3.34E-08	8.84E-10	1.18E-08	1.74E-09	1.74E-09	8.60E-10	1.70E-08
1354	259368.34	4084691.31	1.0269E-08	1.37E-07	2.40E-08	2.40E-08	1.34E-08	2.09E-07	1.56E-09	2.09E-08	3.74E-09	3.74E-09	2.06E-09	3.20E-08	8.46E-10	1.13E-08	1.66E-09	1.66E-09	8.24E-10	1.63E-08
1355	259378.32	4084713.38	9.8267E-09	1.31E-07	2.29E-08	2.29E-08	1.28E-08	2.00E-07	1.49E-09	2.00E-08	3.58E-09	3.58E-09	1.97E-09	3.06E-08	8.10E-10	1.08E-08	1.59E-09	1.59E-09	7.88E-10	1.56E-08
1356	259388.31	4084735.46	9.3985E-09	1.26E-07	2.19E-08	2.19E-08	1.22E-08	1.91E-07	1.43E-09	1.91E-08	3.42E-09	3.42E-09	1.88E-09	2.93E-08	7.75E-10	1.03E-08	1.52E-09	1.52E-09	7.54E-10	1.49E-08
1357	259398.29	4084757.53	8.9921E-09	1.20E-07	2.10E-08	2.10E-08	1.17E-08	1.83E-07	1.36E-09	1.83E-08	3.28E-09	3.28E-09	1.80E-09	2.80E-08	7.41E-10	9.90E-09	1.46E-09	1.46E-09	7.21E-10	1.43E-08
1358	259408.28	4084779.6	8.6131E-09	1.15E-07	2.01E-08	2.01E-08	1.12E-08	1.75E-07	1.31E-09	1.75E-08	3.14E-09	3.14E-09	1.72E-09	2.68E-08	7.10E-10	9.48E-09	1.40E-09	1.40E-09	6.91E-10	1.37E-08
1359	259418.27	4084801.68	8.2615E-09	1.10E-07	1.93E-08	1.93E-08	1.07E-08	1.68E-07	1.25E-09	1.68E-08	3.01E-09	3.01E-09	1.65E-09	2.57E-08	6.81E-10	9.10E-09	1.34E-09	1.34E-09	6.63E-10	1.31E-08
1360	259428.25	4084823.75	7.9298E-09	1.06E-07	1.85E-08	1.85E-08	1.03E-08	1.61E-07	1.20E-09	1.61E-08	2.89E-09	2.89E-09	1.59E-09	2.47E-08	6.54E-10	8.73E-09	1.29E-09	1.29E-09	6.36E-10	1.26E-08
1361	259438.24	4084845.82	7.6146E-09	1.02E-07	1.78E-08	1.78E-08	9.90E-09	1.55E-07	1.16E-09	1.55E-08	2.77E-09	2.77E-09	1.52E-09	2.37E-08	6.28E-10	8.38E-09	1.23E-09	1.23E-09	6.11E-10	1.21E-08
1362	259448.23	4084867.9	7.3085E-09	9.76E-08	1.71E-08	1.71E-08	9.51E-09	1.49E-07	1.11E-09	1.49E-08	2.66E-09	2.66E-09	1.46E-09	2.28E-08	6.02E-10	8.05E-09	1.18E-09	1.18E-09	5.86E-10	1.16E-08
1363	258313.5	4083822.99	3.2762E-09	4.38E-08	7.64E-09	7.64E-09	4.26E-09	6.66E-08	4.97E-10	6.67E-09	1.19E-09	1.19E-09	6.56E-10	1.02E-08	2.70E-10	3.61E-09	5.31E-10	5.31E-10	2.63E-10	5.20E-09
1364	258289.16	4083823.99	3.1796E-09	4.25E-08	7.42E-09	7.42E-09	4.14E-09	6.46E-08	4.83E-10	6.47E-09	1.16E-09	1.16E-09	6.37E-10	9.91E-09	2.62E-10	3.50E-09	5.15E-10	5.15E-10	2.55E-10	5.05E-09
1365	258264.83	4083824.99	3.0867E-09	4.12E-08	7.20E-09	7.20E-09	4.01E-09	6.27E-08	4.68E-10	6.28E-09	1.12E-09	1.12E-09	6.18E-10	9.62E-09	2.54E-10	3.40E-09	5.00E-10	5.00E-10	2.48E-10	4.90E-09
1366	258240.5	4083825.99	2.9974E-09	4.00E-08	6.99E-09	6.99E-09	3.90E-09	6.09E-08	4.55E-10	6.10E-09	1.09E-09	1.09E-09	6.00E-10	9.34E-09	2.47E-10	3.30E-09	4.86E-10	4.86E-10	2.40E-10	4.76E-09
1367	258216.17	4083826.99	2.9099E-09	3.89E-08	6.79E-09	6.79E-09	3.79E-09	5.91E-08	4.42E-10	5.92E-09	1.06E-09	1.06E-09	5.83E-10	9.07E-09	2.40E-10	3.20E-09	4.72E-10	4.72E-10	2.33E-10	4.62E-09
1368	258191.84	4083827.99	2.8225E-09	3.77E-08	6.58E-09	6.58E-09	3.67E-09	5.74E-08	4.28E-10	5.74E-09	1.03E-09	1.03E-09	5.65E-10	8.79E-09	2.33E-10	3.11E-09	4.57E-10	4.57E-10	2.26E-10	4.48E-09
1369	258167.51	4083828.99	2.7386E-09	3.66E-08	6.39E-09	6.39E-09	3.56E-09	5.57E-08	4.16E-10	5.57E-09	9.98E-10	9.98E-10	5.48E-10	8.53E-09	2.26E-10	3.02E-09	4.44E-10	4.44E-10	2.20E-10	4.35E-09
1370	258143.17	4083829.99	2.6548E-09	3.55E-08	6.19E-09	6.19E-09	3.45E-09	5.40E-08	4.03E-10	5.40E-09	9.67E-10	9.67E-10	5.32E-10	8.27E-09	2.19E-10	2.92E-09	4.30E-10	4.30E-10	2.13E-10	4.22E-09
1371	258118.84	4083830.99	2.5728E-09	3.44E-08	6.00E-09	6.00E-09	3.35E-09	5.23E-08	3.90E-10	5.24E-09	9.37E-10	9.37E-10	5.15E-10	8.02E-09	2.12E-10	2.83E-09	4.17E-10	4.17E-10	2.06E-10	4.09E-09
1372	258094.51	4083831.99	2.4908E-09	3.33E-08	5.81E-09	5.81E-09	3.24E-09	5.06E-08	3.78E-10	5.07E-09	9.07E-10	9.07E-10	4.99E-10	7.76E-09	2.05E-10	2.74E-09	4.04E-10	4.04E-10	2.00E-10	3.96E-09
1373	258070.18	4083832.99	2.4125E-09	3.22E-08	5.63E-09	5.63E-09	3.14E-09	4.90E-08	3.66E-10	4.91E-09	8.79E-10	8.79E-10	4.83E-10	7.52E-09	1.99E-10	2.66E-09	3.91E-10	3.91E-10	1.94E-10	3.83E-09
1374	258045.85	4083833.99	2.3378E-09	3.12E-08	5.45E-09	5.45E-09	3.04E-09	4.75E-08	3.55E-10	4.76E-09	8.52E-10	8.52E-10	4.68E-10	7.28E-09	1.93E-10	2.57E-09	3.79E-10	3.79E-10	1.88E-10	3.71E-09
1375	258021.51	4083834.99	2.2649E-09	3.03E-08	5.28E-09	5.28E-09	2.95E-09	4.60E-08	3.44E-10	4.61E-09	8.25E-10	8.25E-10	4.54E-10	7.06E-09	1.87E-10	2.49E-09	3.67E-10	3.67E-10	1.82E-10	3.60E-09
1376	257997.18	4083835.99	2.1956E-09	2.93E-08	5.12E-09	5.12E-09	2.86E-09	4.46E-08	3.33E-10	4.47E-09	8.00E-10	8.00E-10	4.40E-10	6.84E-09	1.81E-10	2.42E-09	3.56E-10	3.56E-10	1.76E-10	3.49E-09
1377	257972.85	4083836.99	2.1282E-09	2.84E-08	4.97E-09	4.97E-09	2.77E-09	4.33E-08	3.23E-10	4.33E-09	7.75E-10	7.75E-10	4.26E-10	6.63E-09	1.75E-10	2.34E-09	3.45E-10	3.45E-10	1.71E-10	3.38E-09
1378	257948.52	4083837.99	2.0681E-09	2.76E-08	4.83E-09	4.83E-09	2.69E-09	4.20E-08	3.14E-10	4.21E-09	7.53E-10	7.53E-10	4.14E-10	6.44E-09	1.70E-10	2.28E-09	3.35E-10	3.35E-10	1.66E-10	3.28E-09
1379	257924.19	4083838.99	2.0098E-09	2.68E-08	4.69E-09	4.69E-09	2.61E-09	4.08E-08	3.05E-10	4.09E-09	7.32E-10	7.32E-10	4.02E-10	6.26E-09	1.66E-10	2.21E-09	3.26E-10	3.26E-10	1.61E-10	3.19E-09
1380	257899.86	4083839.99	1.957E-09	2.61E-08	4.57E-09	4.57E-09	2.55E-09	3.98E-08	2.97E-10	3.98E-09	7.13E-10	7.13E-10	3.92E-10	6.10E-09	1.61E-10	2.15E-09	3.17E-10	3.17E-10	1.57E-10	3.11E-09
1381	257875.52	4083840.99	1.9059E-09	2.55E-08	4.45E-09	4.45E-09	2.48E-09	3.87E-08	2.89E-10	3.88E-09	6.94E-10	6.94E-10	3.82E-10	5.94E-09	1.57E-10	2.10E-09	3.09E-10	3.09E-10	1.53E-10	3.03E-09
1382	257851.19	4083841.99	1.8604E-09	2.49E-08	4.34E-09	4.34E-09	2.42E-09	3.78E-08	2.82E-10	3.79E-09	6.78E-10	6.78E-10	3.73E-10	5.80E-09	1.53E-10	2.05E-09	3.02E-10	3.02E-10	1.49E-10	2.95E-09
1383	257826.86	4083842.99	1.8185E-09	2.43E-08	4.24E-09	4.24E-09	2.37E-09	3.70E-08	2.76E-10	3.70E-09	6.62E-10	6.62E-10	3.64E-10	5.67E-09	1.50E-10	2.00E-09	2.95E-10	2.95E-10	1.46E-10	2.89E-09
1384	257802.53	4083843.99	1.7802E-09	2.38E-08	4.15E-09	4.15E-09	2.32E-09	3.62E-08	2.70E-10	3.62E-09	6.48E-10	6.48E-10	3.57E-10	5.55E-09	1.47E-10	1.96E-09	2.89E-10	2.89E-10	1.43E-10	2.83E-09
1385	257778.2	4083845	1.7456E-09	2.33E-08	4.07E-09	4.07E-09	2.27E-09	3.55E-08	2.65E-10	3.55E-09	6.36E-10	6.36E-10	3.50E-10	5.44E-09	1.44E-10	1.92E-09	2.83E-10	2.83E-10	1.40E-10	2.77E-09
1386	257753.86	4083846	1.7146E-09	2.29E-08	4.00E-09	4.00E-09	2.23E-09	3.48E-08	2.60E-10	3.49E-09	6.25E-10	6.25E-10	3.43E-10	5.34E-09	1.41E-10	1.89E-09	2.78E-10	2.78E-10	1.38E-10	2.72E-09
1387	257729.53	4083847	1.6855E-09	2.25E-08	3.93E-09	3.93E-09	2.19E-09	3.43E-08	2.56E-10	3.43E-09	6.14E-10	6.14E-10	3.38E-10	5.25E-09	1.39E-10	1.86E-09	2.73E-10	2.73E-10	1.35E-10	2.68E-09
1388	257705.2	4083848	1.6581E-09	2.21E-08	3.87E-09	3.87E-09	2.16E-09	3.37E-08	2.52E-10	3.37E-09	6.04E-10	6.04E-10	3.32E-10	5.17E-09	1.37E-10	1.83E-09	2.69E-10	2.69E-10	1.33E-10	2.63E-09
1389	257680.87	4083849	1.6344E-09	2.18E-08	3.81E-09	3.81E-09	2.13E-09	3.32E-08	2.48E-10	3.33E-09	5.95E-10	5.95E-10	3.27E-10	5.09E-09	1.35E-10	1.80E-09	2.65E-10	2.65E-10	1.31E-10	2.60E-09
1390	257656.54	4083850	1.6107E-09	2.15E-08	3.76E-09	3.76E-09	2.10E-09	3.27E-08	2.44E-10	3.28E-09	5.87E-10	5.87E-10	3.23E-10	5.02E-09	1.33E-10	1.77E-09	2.61E-10	2.61E-10	1.29E-10	2.56E-09
1391	257632.21	4083851	1.5907E-09	2.12E-08	3.71E-09	3.71E-09	2.07E-09	3.23E-08	2.41E-10	3.24E-09	5.79E-10	5.79E-10	3.19E-10	4.96E-09	1.31E-10	1.75E-09	2.58E-10	2.58E-10	1.28E-10	2.53E-09
1392	257607.87	4083852	1.5688E-09	2.10E-08	3.66E-09	3.66E-09	2.04E-09	3.19E-08	2.38E-10	3.19E-09	5.72E-10	5.72E-10	3.14E-10	4.89E-09	1.29E-10	1.73E-09	2.54E-10	2.54E-10	1.26E-10	2.49E-09
1393	257583.54	4083853	1.5488E-09	2.07E-08	3.61E-09	3.61E-09	2.01E-09	3.15E-08	2.35E-10	3.15E-09	5.64E-10	5.64E-10	3.10E-10	4.83E-09	1.28E-10	1.71E-09	2.51E-10	2.51E-10	1.24E-10	2.46E-09
1394	257559.21	4083854	1.5288E-09	2.04E-08	3.57E-09	3.57E-09	1.99E-09	3.11E-08	2.32E-10	3.11E-09	5.57E-10	5.57E-10	3.06E-10	4.76E-09	1.26E-10	1.68E-09	2.48E-10	2.48E-10	1.23E-10	2.43E-09
1395	257534.88	4083855	1.5069E-09	2.01E-08	3.52E-09	3.52E-09	1.96E-09	3.06E-08	2.29E-10	3.07E-09	5.49E-10	5.49E-10	3.02E-10	4.69E-09	1.24E-10	1.66E-09	2.44E-10	2.44E-10	1.21E-10	2.39E-09
1396	257510.55	4083856	1.4868E-09	1.99E-08	3.47E-09	3.47E-09	1.93E-09	3.02E-08	2.26E-10	3.03E-09	5.42E-10	5.42E-10	2.98E-10	4.63E-09	1.23E-10	1.64E-09	2.41E-10	2.41E-10	1.19E-10	2.36E-09
1397	258327.66	4083631.44	2.3287E-09	3.11E-08	5.43E-09	5.43E-09	3.03E-09	4.73E-08	3.53E-10	4.74E-09	8.48E-10	8.48E-10	4.66E-10	7.26E-09	1.92E-10	2.56E-09	3.77E-10	3.77E-10	1.87E-10	3.70E-09
1398	258350.03	4083639.73	2.4198E-09	3.23E-08	5.65E-09	5.65E-09	3.15E-09	4.92E-08	3.67E-10	4.92E-09	8.81E-10	8.81E-10	4.85E-10	7.54E-09	1.99E-10	2.66E-09	3.92E-10	3.92E-10	1.94E-10	3.84E-09
1399	258372.41	4083648.01	2.5163E-09	3.36E-08	5.87E-09	5.87E-09	3.27E-09	5.11E-08	3.82E-10	5.12E-09	9.17E-10	9.17E-10	5.04E-10	7.84E-09	2.07E-10	2.77E-09	4.08E-10	4.08E-10	2.02E-10	4.00E-09
1400	258394.78	4083656.29	2.6202E-09	3.50E-08	6.11E-09	6.11E-09	3.41E-09	5.33E-08	3.98E-10	5.33E-09	9.54E-10	9.54E-10	5.25E-10	8.16E-09	2.16E-10	2.88E-09	4.25E-10	4.25E-10	2.10E-10	4.16E-09
1401	258417.16	4083664.58	2.7332E-09	3.65E-08	6.38E-09	6.38E-09	3.56E-09	5.55E-08	4.15E-10	5.56E-09	9.96E-10	9.96E-10	5.47E-10	8.52E-09	2.25E-10	3.01E-09	4.43E-10	4.43E-10	2.19E-10	4.34E-09
1402	258439.54	4083672.86	2.8534E-09	3.81E-08	6.66E-09	6.66E-09	3.71E-09	5.80E-08	4.33E-10	5.81E-09	1.04E-09	1.04E-09	5.71E-10	8.89E-09	2.35E-10	3.14E-09	4.62E-10	4.62E-10	2.29E-10	4.53E-09
1403	258461.91	4083681.15	2.9828E-09	3.98E-08	6.96E-09	6.96E-09	3.88E-09	6.06E-08	4.53E-10	6.07E-09	1.09E-09	1.09E-09	5.97E-10	9.29E-09	2.46E-10	3.28E-09	4.83E-10	4.83E-10	2.39E-10	4.74E-09
1404	258484.29	4083689.43	3.1213E-09	4.17E-08	7.28E-09	7.28E-09	4.06E-09	6.34E-08	4.74E-10	6.35E-09	1.14E-09	1.14E-09	6.25E-10	9.72E-09	2.57E-10	3.44E-09	5.06E-10	5.06E-10	2.50E-10	4.96E-09
1405	258506.66	4083697.72	3.2725E-09	4.37E-08	7.63E-09	7.63E-09	4.26E-09	6.65E-08	4.97E-10	6.66E-09	1.19E-09	1.19E-09	6.55E-10	1.02E-08	2.70E-10	3.60E-09	5.30E-10	5.30E-10	2.63E-10	5.20E-09
1406	258529.04	4083706	3.4329E-09	4.59E-08	8.01E-09	8.01E-09	4.47E-09	6.98E-08	5.21E-10	6.99E-09	1.25E-09	1.25E-09	6.87E-10	1.07E-08	2.83E-10	3.78E-09	5.56E-10	5.56E-10	2.75E-10	5.45E-09
1407	258551.41	4083714.29	3.6041E-09	4.81E-08	8.41E-09	8.41E-09	4.69E-09	7.33E-08	5.47E-10	7.33E-09	1.31E-09	1.31E-09	7.22E-10	1.12E-08	2.97E-10	3.97E-09	5.84E-10	5.84E-10	2.89E-10	5.72E-09
1408	258573.79	4083722.57	3.7864E-09	5.06E-08	8.83E-09	8.83E-09	4.92E-09	7.70E-08	5.75E-10	7.70E-09	1.38E-09	1.38E-09	7.58E-10	1.18E-08	3.12E-10	4.17E-09	6.14E-10	6.14E-10	3.04E-10	6.01E-09
1409	258596.17	4083730.85	3.9795E-09	5.32E-08	9.28E-09	9.28E-09	5.18E-09	8.09E-08	6.04E-10	8.10E-09	1.45E-09	1.45E-09	7.97E-10	1.24E-08	3.28E-10	4.38E-09	6.45E-10	6.45E-10	3.19E-10	6.32E-09
1410	258618.54	4083739.14	4.1818E-09	5.59E-08	9.76E-09	9.76E-09	5.44E-09	8.50E-08	6.35E-10	8.51E-09	1.52E-09	1.52E-09	8.37E-10	1.30E-08	3.45E-10	4.60E-09	6.78E-10	6.78E-10	3.35E-10	6.64E-09
1411	258640.92	4083747.42	4.3949E-09	5.87E-08	1.03E-08	1.03E-08	5.72E-09	8.93E-08	6.67E-10	8.94E-09	1.60E-09	1.60E-09	8.80E-10	1.37E-08	3.62E-10	4.84E-09	7.12E-10	7.12E-10	3.53E-10	6.98E-09
1412	258663.29	4083755.71	4.6154E-09	6.17E-08	1.08E-08	1.08E-08	6.00E-09	9.38E-08	7.00E-10	9.39E-09	1.68E-09	1.68E-09	9.24E-10	1.44E-08	3.80E-10	5.08E-09	7.48E-10	7.48E-10	3.70E-10	7.33E-09
1413	258685.67	4083763.99	4.8468E-09	6.47E-08	1.13E-08	1.13E-08	6.30E-09	9.85E-08	7.36E-10	9.86E-09	1.77E-09	1.77E-09	9.71E-10	1.51E-08	4.00E-10	5.34E-09	7.86E-10	7.86E-10	3.89E-10	7.70E-09
1414	258708.04	4083772.28	5.0855E-09	6.79E-08	1.19E-08	1.19E-08	6.62E-09	1.03E-07	7.72E-10	1.03E-08	1.85E-09	1.85E-09	1.02E-09	1.58E-08	4.19E-10	5.60E-09	8.24E-10	8.24E-10	4.08E-10	8.08E-09
1415	258730.42	4083780.56	5.3315E-09	7.12E-08	1.24E-08	1.24E-08	6.94E-09	1.08E-07	8.09E-10	1.08E-08	1.94E-09	1.94E-09	1.07E-09	1.66E-08	4.39E-10	5.87E-09	8.64E-10	8.64E-10	4.28E-10	8.47E-09
1416	258752.8	4083788.84	5.5866E-09	7.46E-08	1.30E-08	1.30E-08	7.27E-09	1.14E-07	8.48E-10	1.14E-08	2.04E-09	2.04E-09	1.12E-09	1.74E-08	4.60E-10	6.15E-09	9.05E-10	9.05E-10	4.48E-10	8.87E-09
1417	258775.17	4083797.13	5.8453E-09	7.81E-08	1.36E-08	1.36E-08	7.60E-09	1.19E-07	8.87E-10	1.19E-08	2.13E-09	2.13E-09	1.17E-09	1.82E-08	4.82E-10	6.44E-09	9.47E-10	9.47E-10	4.69E-10	9.28E-09
1418	258797.55	4083805.41	6.1114E-09	8.16E-08	1.43E-08	1.43E-08	7.95E-09	1.24E-07	9.28E-10	1.24E-08	2.23E-09	2.23E-09	1.22E-09	1.90E-08	5.04E-10	6.73E-09	9.90E-10	9.90E-10	4.90E-10	9.70E-09
1419	258819.92	4083813.7	6.3829E-09	8.53E-08	1.49E-08	1.49E-08	8.30E-09	1.30E-07	9.69E-10	1.30E-08	2.33E-09	2.33E-09	1.28E-09	1.99E-08	5.26E-10	7.03E-09	1.03E-09	1.03E-09	5.12E-10	1.01E-08
1420	258842.3	4083821.98	6.6562E-09	8.89E-08	1.55E-08	1.55E-08	8.66E-09	1.35E-07	1.01E-09	1.35E-08	2.42E-09	2.42E-09	1.33E-09	2.07E-08	5.49E-10	7.33E-09	1.08E-09	1.08E-09	5.34E-10	1.06E-08
1421	258864.68	4083830.27	6.9313E-09	9.26E-08	1.62E-08	1.62E-08	9.02E-09	1.41E-07	1.05E-09	1.41E-08	2.52E-09	2.52E-09	1.39E-09	2.16E-08	5.71E-10	7.63E-09	1.12E-09	1.12E-09	5.56E-10	1.10E-08
1422	258887.05	4083838.55	7.2083E-09	9.63E-08	1.68E-08	1.68E-08	9.38E-09	1.47E-07	1.09E-09	1.47E-08	2.63E-09	2.63E-09	1.44E-09	2.25E-08	5.94E-10	7.94E-09	1.17E-09	1.17E-09	5.78E-10	1.14E-08
1423	258909.43	4083846.83	7.4834E-09	1.00E-07	1.75E-08	1.75E-08	9.73E-09	1.52E-07	1.14E-09	1.52E-08	2.73E-09	2.73E-09	1.50E-09	2.33E-08	6.17E-10	8.24E-09	1.21E-09	1.21E-09	6.00E-10	1.19E-08
1424	258931.8	4083855.12	7.7586E-09	1.04E-07	1.81E-08	1.81E-08	1.01E-08	1.58E-07	1.18E-09	1.58E-08	2.83E-09	2.83E-09	1.55E-09	2.42E-08	6.40E-10	8.54E-09	1.26E-09	1.26E-09	6.22E-10	1.23E-08
1425	258954.18	4083863.4	8.0301E-09	1.07E-07	1.87E-08	1.87E-08	1.04E-08	1.63E-07	1.22E-09	1.63E-08	2.93E-09	2.93E-09	1.61E-09	2.50E-08	6.62E-10	8.84E-09	1.30E-09	1.30E-09	6.44E-10	1.28E-08
1426	258976.55	4083871.69	8.2979E-09	1.11E-07	1.94E-08	1.94E-08	1.08E-08	1.69E-07	1.26E-09	1.69E-08	3.02E-09	3.02E-09	1.66E-09	2.59E-08	6.84E-10	9.14E-09	1.34E-09	1.34E-09	6.66E-10	1.32E-08
1427	258998.93	4083879.97	8.5585E-09	1.14E-07	2.00E-08	2.00E-08	1.11E-08	1.74E-07	1.30E-09	1.74E-08	3.12E-09	3.12E-09	1.71E-09	2.67E-08	7.05E-10	9.42E-09	1.39E-09	1.39E-09	6.87E-10	1.36E-08
1428	259021.31	4083888.26	8.8099E-09	1.18E-07	2.06E-08	2.06E-08	1.15E-08	1.79E-07	1.34E-09	1.79E-08	3.21E-09	3.21E-09	1.76E-09	2.74E-08	7.26E-10	9.70E-09	1.43E-09	1.43E-09	7.07E-10	1.40E-08
1429	259043.68	4083896.54	9.0523E-09	1.21E-07	2.11E-08	2.11E-08	1.18E-08	1.84E-07	1.37E-09	1.84E-08	3.30E-09	3.30E-09	1.81E-09	2.82E-08	7.46E-10	9.97E-09	1.47E-09	1.47E-09	7.26E-10	1.44E-08
1430	259066.06	4083904.83	9.2764E-09	1.24E-07	2.16E-08	2.16E-08	1.21E-08	1.89E-07	1.41E-09	1.89E-08	3.38E-09	3.38E-09	1.86E-09	2.89E-08	7.65E-10	1.02E-08	1.50E-09	1.50E-09	7.44E-10	1.47E-08
1431	259088.43	4083913.11	9.4878E-09	1.27E-07	2.21E-08	2.21E-08	1.23E-08	1.93E-07	1.44E-09	1.93E-08	3.46E-09	3.46E-09	1.90E-09	2.96E-08	7.82E-10	1.04E-08	1.54E-09	1.54E-09	7.61E-10	1.51E-08
1432	259110.81	4083921.39	9.6827E-09	1.29E-07	2.26E-08	2.26E-08	1.26E-08	1.97E-07	1.47E-09	1.97E-08	3.53E-09	3.53E-09	1.94E-09	3.02E-08	7.98E-10	1.07E-08	1.57E-09	1.57E-09	7.77E-10	1.54E-08
1433	259133.18	4083929.68	9.8613E-09	1.32E-07	2.30E-08	2.30E-08	1.28E-08	2.00E-07	1.50E-09	2.01E-08	3.59E-09	3.59E-09	1.97E-09	3.07E-08	8.13E-10	1.09E-08	1.60E-09	1.60E-09	7.91E-10	1.57E-08
1434	259155.56	4083937.96	1.0018E-08	1.34E-07	2.34E-08	2.34E-08	1.30E-08	2.04E-07	1.52E-09	2.04E-08	3.65E-09	3.65E-09	2.01E-09	3.12E-08	8.26E-10	1.10E-08	1.62E-09	1.62E-09	8.04E-10	1.59E-08
1435	259177.94	4083946.25	1.0149E-08	1.36E-07	2.37E-08	2.37E-08	1.32E-08	2.06E-07	1.54E-09	2.07E-08	3.70E-09	3.70E-09	2.03E-09	3.16E-08	8.37E-10	1.12E-08	1.64E-09	1.64E-09	8.14E-10	1.61E-08
1436	259200.31	4083954.53	1.0266E-08	1.37E-07	2.40E-08	2.40E-08	1.34E-08	2.09E-07	1.56E-09	2.09E-08	3.74E-09	3.74E-09	2.06E-09	3.20E-08	8.46E-10	1.13E-08	1.66E-09	1.66E-09	8.24E-10	1.63E-08
1437	259222.69	4083962.82	1.0362E-08	1.38E-07	2.42E-08	2.42E-08	1.35E-08	2.11E-07	1.57E-09	2.11E-08	3.77E-09	3.77E-09	2.08E-09	3.23E-08	8.54E-10	1.14E-08	1.68E-09	1.68E-09	8.31E-10	1.65E-08
1438	259254.9	4083992.84	1.0716E-08	1.43E-07	2.50E-08	2.50E-08	1.39E-08	2.18E-07	1.63E-09	2.18E-08	3.90E-09	3.90E-09	2.15E-09	3.34E-08	8.83E-10	1.18E-08	1.74E-09	1.74E-09	8.60E-10	1.70E-08
1439	259264.73	4084014.58	1.0975E-08	1.47E-07	2.56E-08	2.56E-08	1.43E-08	2.23E-07	1.67E-09	2.23E-08	4.00E-09	4.00E-09	2.20E-09	3.42E-08	9.05E-10	1.21E-08	1.78E-09	1.78E-09	8.80E-10	1.74E-08
1440	259274.57	4084036.32	1.1221E-08	1.50E-07	2.62E-08	2.62E-08	1.46E-08	2.28E-07	1.70E-09	2.28E-08	4.09E-09	4.09E-09	2.25E-09	3.50E-08	9.25E-10	1.24E-08	1.82E-09	1.82E-09	9.00E-10	1.78E-08
1441	259284.4	4084058.06	1.1445E-08	1.53E-07	2.67E-08	2.67E-08	1.49E-08	2.33E-07	1.74E-09	2.33E-08	4.17E-09	4.17E-09	2.29E-09	3.57E-08	9.43E-10	1.26E-08	1.85E-09	1.85E-09	9.18E-10	1.82E-08
1442	259294.24	4084079.8	1.1643E-08	1.56E-07	2.72E-08	2.72E-08	1.51E-08	2.37E-07	1.77E-09	2.37E-08	4.24E-09	4.24E-09	2.33E-09	3.63E-08	9.60E-10	1.28E-08	1.89E-09	1.89E-09	9.34E-10	1.85E-08
1443	259304.07	4084101.53	1.1815E-08	1.58E-07	2.76E-08	2.76E-08	1.54E-08	2.40E-07	1.79E-09	2.40E-08	4.30E-09	4.30E-09	2.37E-09	3.68E-08	9.74E-10	1.30E-08	1.91E-09	1.91E-09	9.48E-10	1.88E-08
1444	259313.91	4084123.27	1.1957E-08	1.60E-07	2.79E-08	2.79E-08	1.56E-08	2.43E-07	1.81E-09	2.43E-08	4.36E-09	4.36E-09	2.39E-09	3.73E-08	9.86E-10	1.32E-08	1.94E-09	1.94E-09	9.59E-10	1.90E-08
1445	259323.74	4084145.01	1.2066E-08	1.61E-07	2.82E-08	2.82E-08	1.57E-08	2.45E-07	1.83E-09	2.46E-08	4.40E-09	4.40E-09	2.42E-09	3.76E-08	9.95E-10	1.33E-08	1.96E-09	1.96E-09	9.68E-10	1.92E-08
1446	259333.58	4084166.75	1.2141E-08	1.62E-07	2.83E-08	2.83E-08	1.58E-08	2.47E-07	1.84E-09	2.47E-08	4.42E-09	4.42E-09	2.43E-09	3.78E-08	1.00E-09	1.34E-08	1.97E-09	1.97E-09	9.74E-10	1.93E-08
1447	259343.41	4084188.49	1.2183E-08	1.63E-07	2.84E-08	2.84E-08	1.58E-08	2.48E-07	1.85E-09	2.48E-08	4.44E-09	4.44E-09	2.44E-09	3.80E-08	1.00E-09	1.34E-08	1.97E-09	1.97E-09	9.77E-10	1.93E-08
1448	259353.25	4084210.23	1.2188E-08	1.63E-07	2.84E-08	2.84E-08	1.59E-08	2.48E-07	1.85E-09	2.48E-08	4.44E-09	4.44E-09	2.44E-09	3.80E-08	1.00E-09	1.34E-08	1.98E-09	1.98E-09	9.78E-10	1.94E-08
1449	259363.08	4084231.97	1.2159E-08	1.62E-07	2.84E-08	2.84E-08	1.58E-08	2.47E-07	1.85E-09	2.47E-08	4.43E-09	4.43E-09	2.44E-09	3.79E-08	1.00E-09	1.34E-08	1.97E-09	1.97E-09	9.75E-10	1.93E-08
1450	259372.92	4084253.71	1.2095E-08	1.62E-07	2.82E-08	2.82E-08	1.57E-08	2.46E-07	1.84E-09	2.46E-08	4.41E-09	4.41E-09	2.42E-09	3.77E-08	9.97E-10	1.33E-08	1.96E-09	1.96E-09	9.70E-10	1.92E-08
1451	259382.75	4084275.45	0.000000012	1.60E-07	2.80E-08	2.80E-08	1.56E-08	2.44E-07	1.82E-09	2.44E-08	4.37E-09	4.37E-09	2.40E-09	3.74E-08	9.89E-10	1.32E-08	1.94E-09	1.94E-09	9.63E-10	1.91E-08
1452	259392.59	4084297.18	1.1873E-08	1.59E-07	2.77E-08	2.77E-08	1.54E-08	2.41E-07	1.80E-09	2.42E-08	4.33E-09	4.33E-09	2.38E-09	3.70E-08	9.79E-10	1.31E-08	1.92E-09	1.92E-09	9.52E-10	1.89E-08
1453	259402.42	4084318.92	1.172E-08	1.57E-07	2.73E-08	2.73E-08	1.52E-08	2.38E-07	1.78E-09	2.38E-08	4.27E-09	4.27E-09	2.35E-09	3.65E-08	9.66E-10	1.29E-08	1.90E-09	1.90E-09	9.40E-10	1.86E-08
1454	259412.26	4084340.66	1.1541E-08	1.54E-07	2.69E-08	2.69E-08	1.50E-08	2.35E-07	1.75E-09	2.35E-08	4.20E-09	4.20E-09	2.31E-09	3.60E-08	9.51E-10	1.27E-08	1.87E-09	1.87E-09	9.26E-10	1.83E-08
1455	259422.09	4084362.4	1.1343E-08	1.52E-07	2.65E-08	2.65E-08	1.48E-08	2.31E-07	1.72E-09	2.31E-08	4.13E-09	4.13E-09	2.27E-09	3.53E-08	9.35E-10	1.25E-08	1.84E-09	1.84E-09	9.10E-10	1.80E-08
1456	259431.93	4084384.14	1.1129E-08	1.49E-07	2.60E-08	2.60E-08	1.45E-08	2.26E-07	1.69E-09	2.26E-08	4.05E-09	4.05E-09	2.23E-09	3.47E-08	9.17E-10	1.23E-08	1.80E-09	1.80E-09	8.93E-10	1.77E-08
1457	259441.76	4084405.88	1.0947E-08	1.46E-07	2.55E-08	2.55E-08	1.42E-08	2.22E-07	1.66E-09	2.23E-08	3.99E-09	3.99E-09	2.19E-09	3.41E-08	9.02E-10	1.21E-08	1.77E-09	1.77E-09	8.78E-10	1.74E-08
1458	259451.6	4084427.62	1.0718E-08	1.43E-07	2.50E-08	2.50E-08	1.39E-08	2.18E-07	1.63E-09	2.18E-08	3.90E-09	3.90E-09	2.15E-09	3.34E-08	8.83E-10	1.18E-08	1.74E-09	1.74E-09	8.60E-10	1.70E-08
1459	259461.43	4084449.36	1.0484E-08	1.40E-07	2.45E-08	2.45E-08	1.36E-08	2.13E-07	1.59E-09	2.13E-08	3.82E-09	3.82E-09	2.10E-09	3.27E-08	8.64E-10	1.15E-08	1.70E-09	1.70E-09	8.41E-10	1.66E-08
1460	259471.26	4084471.1	1.0249E-08	1.37E-07	2.39E-08	2.39E-08	1.33E-08	2.08E-07	1.56E-09	2.09E-08	3.73E-09	3.73E-09	2.05E-09	3.19E-08	8.45E-10	1.13E-08	1.66E-09	1.66E-09	8.22E-10	1.63E-08
1461	259481.1	4084492.84	1.0011E-08	1.34E-07	2.34E-08	2.34E-08	1.30E-08	2.03E-07	1.52E-09	2.04E-08	3.65E-09	3.65E-09	2.00E-09	3.12E-08	8.25E-10	1.10E-08	1.62E-09	1.62E-09	8.03E-10	1.59E-08
1462	259490.93	4084514.57	9.7702E-09	1.31E-07	2.28E-08	2.28E-08	1.27E-08	1.99E-07	1.48E-09	1.99E-08	3.56E-09	3.56E-09	1.96E-09	3.04E-08	8.05E-10	1.08E-08	1.58E-09	1.58E-09	7.84E-10	1.55E-08
1463	259500.77	4084536.31	9.5206E-09	1.27E-07	2.22E-08	2.22E-08	1.24E-08	1.93E-07	1.44E-09	1.94E-08	3.47E-09	3.47E-09	1.91E-09	2.97E-08	7.85E-10	1.05E-08	1.54E-09	1.54E-09	7.64E-10	1.51E-08
1464	259510.6	4084558.05	9.26E-09	1.24E-07	2.16E-08	2.16E-08	1.20E-08	1.88E-07	1.41E-09	1.88E-08	3.37E-09	3.37E-09	1.85E-09	2.88E-08	7.63E-10	1.02E-08	1.50E-09	1.50E-09	7.43E-10	1.47E-08
1465	259520.44	4084579.79	8.983E-09	1.20E-07	2.10E-08	2.10E-08	1.17E-08	1.83E-07	1.36E-09	1.83E-08	3.27E-09	3.27E-09	1.80E-09	2.80E-08	7.40E-10	9.89E-09	1.46E-09	1.46E-09	7.21E-10	1.43E-08
1466	259530.27	4084601.53	8.6915E-09	1.16E-07	2.03E-08	2.03E-08	1.13E-08	1.77E-07	1.32E-09	1.77E-08	3.17E-09	3.17E-09	1.74E-09	2.71E-08	7.16E-10	9.57E-09	1.41E-09	1.41E-09	6.97E-10	1.38E-08
1467	259540.11	4084623.27	8.3872E-09	1.12E-07	1.96E-08	1.96E-08	1.09E-08	1.70E-07	1.27E-09	1.71E-08	3.06E-09	3.06E-09	1.68E-09	2.61E-08	6.91E-10	9.23E-09	1.36E-09	1.36E-09	6.73E-10	1.33E-08
1468	259549.94	4084645.01	8.0756E-09	1.08E-07	1.88E-08	1.88E-08	1.05E-08	1.64E-07	1.23E-09	1.64E-08	2.94E-09	2.94E-09	1.62E-09	2.52E-08	6.66E-10	8.89E-09	1.31E-09	1.31E-09	6.48E-10	1.28E-08
1469	259559.78	4084666.75	7.7659E-09	1.04E-07	1.81E-08	1.81E-08	1.01E-08	1.58E-07	1.18E-09	1.58E-08	2.83E-09	2.83E-09	1.56E-09	2.42E-08	6.40E-10	8.55E-09	1.26E-09	1.26E-09	6.23E-10	1.23E-08
1470	259569.61	4084688.49	7.467E-09	9.97E-08	1.74E-08	1.74E-08	9.71E-09	1.52E-07	1.13E-09	1.52E-08	2.72E-09	2.72E-09	1.50E-09	2.33E-08	6.15E-10	8.22E-09	1.21E-09	1.21E-09	5.99E-10	1.19E-08
1471	259579.45	4084710.22	7.1864E-09	9.60E-08	1.68E-08	1.68E-08	9.35E-09	1.46E-07	1.09E-09	1.46E-08	2.62E-09	2.62E-09	1.44E-09	2.24E-08	5.92E-10	7.91E-09	1.16E-09	1.16E-09	5.77E-10	1.14E-08
1472	259589.28	4084731.96	6.9277E-09	9.25E-08	1.62E-08	1.62E-08	9.01E-09	1.41E-07	1.05E-09	1.41E-08	2.52E-09	2.52E-09	1.39E-09	2.16E-08	5.71E-10	7.63E-09	1.12E-09	1.12E-09	5.56E-10	1.10E-08

1473	259599.12	4084753.7	6.6908E-09	8.94E-08	1.56E-08	1.56E-08	8.70E-09	1.36E-07	1.02E-09	1.36E-08	2.44E-09	2.44E-09	1.34E-09	2.08E-08	5.52E-10	7.37E-09	1.08E-09	1.08E-09	5.37E-10	1.06E-08
1474	259608.95	4084775.44	6.4722E-09	8.65E-08	1.51E-08	1.51E-08	8.42E-09	1.32E-07	9.82E-10	1.32E-08	2.36E-09	2.36E-09	1.30E-09	2.02E-08	5.33E-10	7.13E-09	1.05E-09	1.05E-09	5.19E-10	1.03E-08
1475	259618.79	4084797.18	6.2681E-09	8.37E-08	1.46E-08	1.46E-08	8.15E-09	1.27E-07	9.51E-10	1.28E-08	2.28E-09	2.28E-09	1.26E-09	1.95E-08	5.17E-10	6.90E-09	1.02E-09	1.02E-09	5.03E-10	9.95E-09
1476	259628.62	4084818.92	6.0695E-09	8.11E-08	1.42E-08	1.42E-08	7.89E-09	1.23E-07	9.21E-10	1.24E-08	2.21E-09	2.21E-09	1.22E-09	1.89E-08	5.00E-10	6.68E-09	9.84E-10	9.84E-10	4.87E-10	9.64E-09
1477	259638.46	4084840.66	5.8727E-09	7.84E-08	1.37E-08	1.37E-08	7.64E-09	1.19E-07	8.91E-10	1.20E-08	2.14E-09	2.14E-09	1.18E-09	1.83E-08	4.84E-10	6.47E-09	9.52E-10	9.52E-10	4.71E-10	9.32E-09
1478	259648.29	4084862.4	5.6759E-09	7.58E-08	1.32E-08	1.32E-08	7.38E-09	1.15E-07	8.61E-10	1.16E-08	2.07E-09	2.07E-09	1.14E-09	1.77E-08	4.68E-10	6.25E-09	9.20E-10	9.20E-10	4.55E-10	9.01E-09
1479	258305.28	4083623.16	2.243E-09	3.00E-08	5.23E-09	5.23E-09	2.92E-09	4.56E-08	3.40E-10	4.56E-09	8.17E-10	8.17E-10	4.49E-10	6.99E-09	1.85E-10	2.47E-09	3.64E-10	3.64E-10	1.80E-10	3.56E-09
1480	258280.95	4083624.16	2.1902E-09	2.93E-08	5.11E-09	5.11E-09	2.85E-09	4.45E-08	3.32E-10	4.46E-09	7.98E-10	7.98E-10	4.39E-10	6.82E-09	1.81E-10	2.41E-09	3.55E-10	3.55E-10	1.76E-10	3.48E-09
1481	258256.62	4083625.16	2.1392E-09	2.86E-08	4.99E-09	4.99E-09	2.78E-09	4.35E-08	3.25E-10	4.35E-09	7.79E-10	7.79E-10	4.28E-10	6.66E-09	1.76E-10	2.36E-09	3.47E-10	3.47E-10	1.72E-10	3.40E-09
1482	258232.29	4083626.16	2.09E-09	2.79E-08	4.88E-09	4.88E-09	2.72E-09	4.25E-08	3.17E-10	4.25E-09	7.61E-10	7.61E-10	4.19E-10	6.51E-09	1.72E-10	2.30E-09	3.39E-10	3.39E-10	1.68E-10	3.32E-09
1483	258207.95	4083627.16	2.0408E-09	2.73E-08	4.76E-09	4.76E-09	2.65E-09	4.15E-08	3.10E-10	4.15E-09	7.43E-10	7.43E-10	4.09E-10	6.36E-09	1.68E-10	2.25E-09	3.31E-10	3.31E-10	1.64E-10	3.24E-09
1484	258183.62	4083628.16	1.9934E-09	2.66E-08	4.65E-09	4.65E-09	2.59E-09	4.05E-08	3.03E-10	4.06E-09	7.26E-10	7.26E-10	3.99E-10	6.21E-09	1.64E-10	2.19E-09	3.23E-10	3.23E-10	1.60E-10	3.17E-09
1485	258159.29	4083629.16	1.946E-09	2.60E-08	4.54E-09	4.54E-09	2.53E-09	3.96E-08	2.95E-10	3.96E-09	7.09E-10	7.09E-10	3.90E-10	6.06E-09	1.60E-10	2.14E-09	3.15E-10	3.15E-10	1.56E-10	3.09E-09
1486	258134.96	4083630.16	1.8986E-09	2.54E-08	4.43E-09	4.43E-09	2.47E-09	3.86E-08	2.88E-10	3.86E-09	6.92E-10	6.92E-10	3.80E-10	5.92E-09	1.57E-10	2.09E-09	3.08E-10	3.08E-10	1.52E-10	3.01E-09
1487	258110.63	4083631.16	1.8513E-09	2.47E-08	4.32E-09	4.32E-09	2.41E-09	3.76E-08	2.81E-10	3.77E-09	6.74E-10	6.74E-10	3.71E-10	5.77E-09	1.53E-10	2.04E-09	3.00E-10	3.00E-10	1.49E-10	2.94E-09
1488	258086.29	4083632.16	1.8057E-09	2.41E-08	4.21E-09	4.21E-09	2.35E-09	3.67E-08	2.74E-10	3.67E-09	6.58E-10	6.58E-10	3.62E-10	5.63E-09	1.49E-10	1.99E-09	2.93E-10	2.93E-10	1.45E-10	2.87E-09
1489	258061.96	4083633.16	1.762E-09	2.35E-08	4.11E-09	4.11E-09	2.29E-09	3.58E-08	2.67E-10	3.59E-09	6.42E-10	6.42E-10	3.53E-10	5.49E-09	1.45E-10	1.94E-09	2.86E-10	2.86E-10	1.41E-10	2.80E-09
1490	258037.63	4083634.16	1.7183E-09	2.30E-08	4.01E-09	4.01E-09	2.23E-09	3.49E-08	2.61E-10	3.50E-09	6.26E-10	6.26E-10	3.44E-10	5.35E-09	1.42E-10	1.89E-09	2.78E-10	2.78E-10	1.38E-10	2.73E-09
1491	258013.3	4083635.16	1.6745E-09	2.24E-08	3.91E-09	3.91E-09	2.18E-09	3.40E-08	2.54E-10	3.41E-09	6.10E-10	6.10E-10	3.35E-10	5.22E-09	1.38E-10	1.84E-09	2.71E-10	2.71E-10	1.34E-10	2.66E-09
1492	257988.97	4083636.16	1.6344E-09	2.18E-08	3.81E-09	3.81E-09	2.13E-09	3.32E-08	2.48E-10	3.33E-09	5.95E-10	5.95E-10	3.27E-10	5.09E-09	1.35E-10	1.80E-09	2.65E-10	2.65E-10	1.31E-10	2.60E-09
1493	257964.64	4083637.16	1.5944E-09	2.13E-08	3.72E-09	3.72E-09	2.07E-09	3.24E-08	2.42E-10	3.24E-09	5.81E-10	5.81E-10	3.19E-10	4.97E-09	1.31E-10	1.76E-09	2.58E-10	2.58E-10	1.28E-10	2.53E-09
1494	257940.3	4083638.16	1.5579E-09	2.08E-08	3.63E-09	3.63E-09	2.03E-09	3.17E-08	2.36E-10	3.17E-09	5.68E-10	5.68E-10	3.12E-10	4.85E-09	1.28E-10	1.72E-09	2.52E-10	2.52E-10	1.25E-10	2.47E-09
1495	257915.97	4083639.16	1.5215E-09	2.03E-08	3.55E-09	3.55E-09	1.98E-09	3.09E-08	2.31E-10	3.10E-09	5.54E-10	5.54E-10	3.05E-10	4.74E-09	1.25E-10	1.68E-09	2.47E-10	2.47E-10	1.22E-10	2.42E-09
1496	257891.64	4083640.16	1.4868E-09	1.99E-08	3.47E-09	3.47E-09	1.93E-09	3.02E-08	2.26E-10	3.03E-09	5.42E-10	5.42E-10	2.98E-10	4.63E-09	1.23E-10	1.64E-09	2.41E-10	2.41E-10	1.19E-10	2.36E-09
1497	257867.31	4083641.16	1.4559E-09	1.94E-08	3.40E-09	3.40E-09	1.89E-09	2.96E-08	2.21E-10	2.96E-09	5.30E-10	5.30E-10	2.92E-10	4.54E-09	1.20E-10	1.60E-09	2.36E-10	2.36E-10	1.17E-10	2.31E-09
1498	257842.98	4083642.16	1.4249E-09	1.90E-08	3.32E-09	3.32E-09	1.85E-09	2.90E-08	2.16E-10	2.90E-09	5.19E-10	5.19E-10	2.85E-10	4.44E-09	1.17E-10	1.57E-09	2.31E-10	2.31E-10	1.14E-10	2.26E-09
1499	257818.64	4083643.16	1.3976E-09	1.87E-08	3.26E-09	3.26E-09	1.82E-09	2.84E-08	2.12E-10	2.84E-09	5.09E-10	5.09E-10	2.80E-10	4.35E-09	1.15E-10	1.54E-09	2.27E-10	2.27E-10	1.12E-10	2.22E-09
1500	257794.31	4083644.16	1.3721E-09	1.83E-08	3.20E-09	3.20E-09	1.78E-09	2.79E-08	2.08E-10	2.79E-09	5.00E-10	5.00E-10	2.75E-10	4.27E-09	1.13E-10	1.51E-09	2.22E-10	2.22E-10	1.10E-10	2.18E-09
1501	257769.98	4083645.16	1.3484E-09	1.80E-08	3.15E-09	3.15E-09	1.75E-09	2.74E-08	2.05E-10	2.74E-09	4.91E-10	4.91E-10	2.70E-10	4.20E-09	1.11E-10	1.48E-09	2.19E-10	2.19E-10	1.08E-10	2.14E-09
1502	257745.65	4083646.16	1.3247E-09	1.77E-08	3.09E-09	3.09E-09	1.72E-09	2.69E-08	2.01E-10	2.70E-09	4.83E-10	4.83E-10	2.65E-10	4.13E-09	1.09E-10	1.46E-09	2.15E-10	2.15E-10	1.06E-10	2.10E-09
1503	257721.32	4083647.16	1.3046E-09	1.74E-08	3.04E-09	3.04E-09	1.70E-09	2.65E-08	1.98E-10	2.65E-09	4.75E-10	4.75E-10	2.61E-10	4.06E-09	1.08E-10	1.44E-09	2.11E-10	2.11E-10	1.05E-10	2.07E-09
1504	257696.99	4083648.16	1.2864E-09	1.72E-08	3.00E-09	3.00E-09	1.67E-09	2.61E-08	1.95E-10	2.62E-09	4.69E-10	4.69E-10	2.58E-10	4.01E-09	1.06E-10	1.42E-09	2.08E-10	2.08E-10	1.03E-10	2.04E-09
1505	257672.65	4083649.17	1.2682E-09	1.69E-08	2.96E-09	2.96E-09	1.65E-09	2.58E-08	1.92E-10	2.58E-09	4.62E-10	4.62E-10	2.54E-10	3.95E-09	1.05E-10	1.40E-09	2.06E-10	2.06E-10	1.02E-10	2.01E-09
1506	257648.32	4083650.17	1.2518E-09	1.67E-08	2.92E-09	2.92E-09	1.63E-09	2.54E-08	1.90E-10	2.55E-09	4.56E-10	4.56E-10	2.51E-10	3.90E-09	1.03E-10	1.38E-09	2.03E-10	2.03E-10	1.00E-10	1.99E-09
1507	257623.99	4083651.17	1.2354E-09	1.65E-08	2.88E-09	2.88E-09	1.61E-09	2.51E-08	1.87E-10	2.51E-09	4.50E-10	4.50E-10	2.47E-10	3.85E-09	1.02E-10	1.36E-09	2.00E-10	2.00E-10	9.91E-11	1.96E-09
1508	257599.66	4083652.17	1.2208E-09	1.63E-08	2.85E-09	2.85E-09	1.59E-09	2.48E-08	1.85E-10	2.48E-09	4.45E-10	4.45E-10	2.44E-10	3.80E-09	1.01E-10	1.34E-09	1.98E-10	1.98E-10	9.79E-11	1.94E-09
1509	257575.33	4083653.17	1.2062E-09	1.61E-08	2.81E-09	2.81E-09	1.57E-09	2.45E-08	1.83E-10	2.45E-09	4.39E-10	4.39E-10	2.42E-10	3.76E-09	9.94E-11	1.33E-09	1.95E-10	1.95E-10	9.68E-11	1.92E-09
1510	257550.99	4083654.17	1.1917E-09	1.59E-08	2.78E-09	2.78E-09	1.55E-09	2.42E-08	1.81E-10	2.43E-09	4.34E-10	4.34E-10	2.39E-10	3.71E-09	9.82E-11	1.31E-09	1.93E-10	1.93E-10	9.56E-11	1.89E-09
1511	257526.66	4083655.17	1.1789E-09	1.57E-08	2.75E-09	2.75E-09	1.53E-09	2.40E-08	1.79E-10	2.40E-09	4.29E-10	4.29E-10	2.36E-10	3.67E-09	9.72E-11	1.30E-09	1.91E-10	1.91E-10	9.46E-11	1.87E-09
1512	257502.33	4083656.17	1.1643E-09	1.56E-08	2.72E-09	2.72E-09	1.51E-09	2.37E-08	1.77E-10	2.37E-09	4.24E-10	4.24E-10	2.33E-10	3.63E-09	9.60E-11	1.28E-09	1.89E-10	1.89E-10	9.34E-11	1.85E-09
1513	258319.66	4083431.69	1.7183E-09	2.30E-08	4.01E-09	4.01E-09	2.23E-09	3.49E-08	2.61E-10	3.50E-09	6.26E-10	6.26E-10	3.44E-10	5.35E-09	1.42E-10	1.89E-09	2.78E-10	2.78E-10	1.38E-10	2.73E-09
1514	258342.25	4083440.05	1.7747E-09	2.37E-08	4.14E-09	4.14E-09	2.31E-09	3.61E-08	2.69E-10	3.61E-09	6.46E-10	6.46E-10	3.55E-10	5.53E-09	1.46E-10	1.95E-09	2.88E-10	2.88E-10	1.42E-10	2.82E-09
1515	258364.84	4083448.42	1.833E-09	2.45E-08	4.28E-09	4.28E-09	2.38E-09	3.73E-08	2.78E-10	3.73E-09	6.68E-10	6.68E-10	3.67E-10	5.71E-09	1.51E-10	2.02E-09	2.97E-10	2.97E-10	1.47E-10	2.91E-09
1516	258387.43	4083456.78	1.895E-09	2.53E-08	4.42E-09	4.42E-09	2.46E-09	3.85E-08	2.88E-10	3.86E-09	6.90E-10	6.90E-10	3.80E-10	5.90E-09	1.56E-10	2.09E-09	3.07E-10	3.07E-10	1.52E-10	3.01E-09
1517	258410.02	4083465.15	1.9606E-09	2.62E-08	4.57E-09	4.57E-09	2.55E-09	3.98E-08	2.98E-10	3.99E-09	7.14E-10	7.14E-10	3.93E-10	6.11E-09	1.62E-10	2.16E-09	3.18E-10	3.18E-10	1.57E-10	3.11E-09
1518	258432.61	4083473.51	2.0317E-09	2.71E-08	4.74E-09	4.74E-09	2.64E-09	4.13E-08	3.08E-10	4.13E-09	7.40E-10	7.40E-10	4.07E-10	6.33E-09	1.67E-10	2.24E-09	3.29E-10	3.29E-10	1.63E-10	3.23E-09
1519	258455.2	4083481.87	2.1045E-09	2.81E-08	4.91E-09	4.91E-09	2.74E-09	4.28E-08	3.19E-10	4.28E-09	7.67E-10	7.67E-10	4.21E-10	6.56E-09	1.73E-10	2.32E-09	3.41E-10	3.41E-10	1.69E-10	3.34E-09
1520	258477.79	4083490.24	2.1829E-09	2.92E-08	5.09E-09	5.09E-09	2.84E-09	4.44E-08	3.31E-10	4.44E-09	7.95E-10	7.95E-10	4.37E-10	6.80E-09	1.80E-10	2.40E-09	3.54E-10	3.54E-10	1.75E-10	3.47E-09
1521	258500.38	4083498.6	2.2649E-09	3.03E-08	5.28E-09	5.28E-09	2.95E-09	4.60E-08	3.44E-10	4.61E-09	8.25E-10	8.25E-10	4.54E-10	7.06E-09	1.87E-10	2.49E-09	3.67E-10	3.67E-10	1.82E-10	3.60E-09
1522	258522.97	4083506.97	2.3542E-09	3.14E-08	5.49E-09	5.49E-09	3.06E-09	4.78E-08	3.57E-10	4.79E-09	8.58E-10	8.58E-10	4.71E-10	7.33E-09	1.94E-10	2.59E-09	3.82E-10	3.82E-10	1.89E-10	3.74E-09
1523	258545.57	4083515.33	2.4489E-09	3.27E-08	5.71E-09	5.71E-09	3.19E-09	4.98E-08	3.72E-10	4.98E-09	8.92E-10	8.92E-10	4.90E-10	7.63E-09	2.02E-10	2.70E-09	3.97E-10	3.97E-10	1.96E-10	3.89E-09
1524	258568.16	4083523.69	2.5491E-09	3.41E-08	5.95E-09	5.95E-09	3.32E-09	5.18E-08	3.87E-10	5.19E-09	9.29E-10	9.29E-10	5.11E-10	7.94E-09	2.10E-10	2.81E-09	4.13E-10	4.13E-10	2.05E-10	4.05E-09
1525	258590.75	4083532.06	2.6566E-09	3.55E-08	6.20E-09	6.20E-09	3.46E-09	5.40E-08	4.03E-10	5.41E-09	9.68E-10	9.68E-10	5.32E-10	8.28E-09	2.19E-10	2.93E-09	4.31E-10	4.31E-10	2.13E-10	4.22E-09
1526	258613.34	4083540.42	2.7714E-09	3.70E-08	6.47E-09	6.47E-09	3.60E-09	5.63E-08	4.21E-10	5.64E-09	1.01E-09	1.01E-09	5.55E-10	8.63E-09	2.28E-10	3.05E-09	4.49E-10	4.49E-10	2.22E-10	4.40E-09
1527	258635.93	4083548.79	2.8935E-09	3.87E-08	6.75E-09	6.75E-09	3.76E-09	5.88E-08	4.39E-10	5.89E-09	1.05E-09	1.05E-09	5.79E-10	9.01E-09	2.39E-10	3.19E-09	4.69E-10	4.69E-10	2.32E-10	4.59E-09
1528	258658.52	4083557.15	3.0247E-09	4.04E-08	7.06E-09	7.06E-09	3.93E-09	6.15E-08	4.59E-10	6.16E-09	1.10E-09	1.10E-09	6.06E-10	9.42E-09	2.49E-10	3.33E-09	4.90E-10	4.90E-10	2.43E-10	4.80E-09
1529	258681.11	4083565.51	3.1632E-09	4.23E-08	7.38E-09	7.38E-09	4.11E-09	6.43E-08	4.80E-10	6.44E-09	1.15E-09	1.15E-09	6.33E-10	9.85E-09	2.61E-10	3.48E-09	5.13E-10	5.13E-10	2.54E-10	5.02E-09
1530	258703.7	4083573.88	3.3071E-09	4.42E-08	7.72E-09	7.72E-09	4.30E-09	6.72E-08	5.02E-10	6.73E-09	1.20E-09	1.20E-09	6.62E-10	1.03E-08	2.73E-10	3.64E-09	5.36E-10	5.36E-10	2.65E-10	5.25E-09
1531	258726.29	4083582.24	3.4602E-09	4.62E-08	8.07E-09	8.07E-09	4.50E-09	7.03E-08	5.25E-10	7.04E-09	1.26E-09	1.26E-09	6.93E-10	1.08E-08	2.85E-10	3.81E-09	5.61E-10	5.61E-10	2.78E-10	5.49E-09
1532	258748.88	4083590.61	3.6187E-09	4.83E-08	8.44E-09	8.44E-09	4.71E-09	7.35E-08	5.49E-10	7.36E-09	1.32E-09	1.32E-09	7.25E-10	1.13E-08	2.98E-10	3.98E-09	5.86E-10	5.86E-10	2.90E-10	5.75E-09
1533	258771.48	4083598.97	3.7827E-09	5.05E-08	8.83E-09	8.83E-09	4.92E-09	7.69E-08	5.74E-10	7.70E-09	1.38E-09	1.38E-09	7.58E-10	1.18E-08	3.12E-10	4.16E-09	6.13E-10	6.13E-10	3.03E-10	6.01E-09
1534	258794.07	4083607.33	3.954E-09	5.28E-08	9.22E-09	9.22E-09	5.14E-09	8.04E-08	6.00E-10	8.05E-09	1.44E-09	1.44E-09	7.92E-10	1.23E-08	3.26E-10	4.35E-09	6.41E-10	6.41E-10	3.17E-10	6.28E-09
1535	258816.66	4083615.7	4.1307E-09	5.52E-08	9.64E-09	9.64E-09	5.37E-09	8.40E-08	6.27E-10	8.41E-09	1.50E-09	1.50E-09	8.27E-10	1.29E-08	3.40E-10	4.55E-09	6.69E-10	6.69E-10	3.31E-10	6.56E-09
1536	258839.25	4083624.06	4.3129E-09	5.76E-08	1.01E-08	1.01E-08	5.61E-09	8.77E-08	6.55E-10	8.78E-09	1.57E-09	1.57E-09	8.64E-10	1.34E-08	3.56E-10	4.75E-09	6.99E-10	6.99E-10	3.46E-10	6.85E-09
1537	258861.84	4083632.43	4.4988E-09	6.01E-08	1.05E-08	1.05E-08	5.85E-09	9.14E-08	6.83E-10	9.15E-09	1.64E-09	1.64E-09	9.01E-10	1.40E-08	3.71E-10	4.95E-09	7.29E-10	7.29E-10	3.61E-10	7.14E-09
1538	258884.43	4083640.79	4.6901E-09	6.26E-08	1.09E-08	1.09E-08	6.10E-09	9.53E-08	7.12E-10	9.54E-09	1.71E-09	1.71E-09	9.39E-10	1.46E-08	3.87E-10	5.16E-09	7.60E-10	7.60E-10	3.76E-10	7.45E-09
1539	258907.02	4083649.15	4.8851E-09	6.53E-08	1.14E-08	1.14E-08	6.35E-09	9.93E-08	7.41E-10	9.94E-09	1.78E-09	1.78E-09	9.78E-10	1.52E-08	4.03E-10	5.38E-09	7.92E-10	7.92E-10	3.92E-10	7.76E-09
1540	258929.61	4083657.52	5.0855E-09	6.79E-08	1.19E-08	1.19E-08	6.62E-09	1.03E-07	7.72E-10	1.03E-08	1.85E-09	1.85E-09	1.02E-09	1.58E-08	4.19E-10	5.60E-09	8.24E-10	8.24E-10	4.08E-10	8.08E-09
1541	258952.2	4083665.88	5.2878E-09	7.06E-08	1.23E-08	1.23E-08	6.88E-09	1.07E-07	8.03E-10	1.08E-08	1.93E-09	1.93E-09	1.06E-09	1.65E-08	4.36E-10	5.82E-09	8.57E-10	8.57E-10	4.24E-10	8.40E-09
1542	258974.79	4083674.25	5.4937E-09	7.34E-08	1.28E-08	1.28E-08	7.15E-09	1.12E-07	8.34E-10	1.12E-08	2.00E-09	2.00E-09	1.10E-09	1.71E-08	4.53E-10	6.05E-09	8.90E-10	8.90E-10	4.41E-10	8.72E-09
1543	258997.38	4083682.61	5.7014E-09	7.62E-08	1.33E-08	1.33E-08	7.42E-09	1.16E-07	8.65E-10	1.16E-08	2.08E-09	2.08E-09	1.14E-09	1.78E-08	4.70E-10	6.28E-09	9.24E-10	9.24E-10	4.57E-10	9.05E-09
1544	259019.98	4083690.97	5.9109E-09	7.90E-08	1.38E-08	1.38E-08	7.69E-09	1.20E-07	8.97E-10	1.20E-08	2.15E-09	2.15E-09	1.18E-09	1.84E-08	4.87E-10	6.51E-09	9.58E-10	9.58E-10	4.74E-10	9.39E-09
1545	259042.57	4083699.34	6.1205E-09	8.18E-08	1.43E-08	1.43E-08	7.96E-09	1.24E-07	9.29E-10	1.25E-08	2.23E-09	2.23E-09	1.23E-09	1.91E-08	5.05E-10	6.74E-09	9.92E-10	9.92E-10	4.91E-10	9.72E-09
1546	259065.16	4083707.7	6.3282E-09	8.45E-08	1.48E-08	1.48E-08	8.23E-09	1.29E-07	9.60E-10	1.29E-08	2.31E-09	2.31E-09	1.27E-09	1.97E-08	5.22E-10	6.97E-09	1.03E-09	1.03E-09	5.08E-10	1.00E-08
1547	259087.75	4083716.07	6.5341E-09	8.73E-08	1.52E-08	1.52E-08	8.50E-09	1.33E-07	9.92E-10	1.33E-08	2.38E-09	2.38E-09	1.31E-09	2.04E-08	5.39E-10	7.19E-09	1.06E-09	1.06E-09	5.24E-10	1.04E-08
1548	259110.34	4083724.43	6.7382E-09	9.00E-08	1.57E-08	1.57E-08	8.76E-09	1.37E-07	1.02E-09	1.37E-08	2.45E-09	2.45E-09	1.35E-09	2.10E-08	5.55E-10	7.42E-09	1.09E-09	1.09E-09	5.41E-10	1.07E-08
1549	259132.93	4083732.79	6.9368E-09	9.27E-08	1.62E-08	1.62E-08	9.02E-09	1.41E-07	1.05E-09	1.41E-08	2.53E-09	2.53E-09	1.39E-09	2.16E-08	5.72E-10	7.64E-09	1.12E-09	1.12E-09	5.57E-10	1.10E-08
1550	259155.52	4083741.16	7.1281E-09	9.52E-08	1.66E-08	1.66E-08	9.27E-09	1.45E-07	1.08E-09	1.45E-08	2.60E-09	2.60E-09	1.43E-09	2.22E-08	5.88E-10	7.85E-09	1.16E-09	1.16E-09	5.72E-10	1.13E-08
1551	259178.11	4083749.52	7.3121E-09	9.77E-08	1.71E-08	1.71E-08	9.51E-09	1.49E-07	1.11E-09	1.49E-08	2.66E-09	2.66E-09	1.46E-09	2.28E-08	6.03E-10	8.05E-09	1.19E-09	1.19E-09	5.87E-10	1.16E-08
1552	259200.7	4083757.89	7.4871E-09	1.00E-07	1.75E-08	1.75E-08	9.74E-09	1.52E-07	1.14E-09	1.52E-08	2.73E-09	2.73E-09	1.50E-09	2.33E-08	6.17E-10	8.24E-09	1.21E-09	1.21E-09	6.01E-10	1.19E-08
1553	259223.29	4083766.25	7.6492E-09	1.02E-07	1.78E-08	1.78E-08	9.95E-09	1.55E-07	1.16E-09	1.56E-08	2.79E-09	2.79E-09	1.53E-09	2.38E-08	6.31E-10	8.42E-09	1.24E-09	1.24E-09	6.14E-10	1.21E-08
1554	259245.88	4083774.61	7.8005E-09	1.04E-07	1.82E-08	1.82E-08	1.01E-08	1.59E-07	1.18E-09	1.59E-08	2.84E-09	2.84E-09	1.56E-09	2.43E-08	6.43E-10	8.59E-09	1.26E-09	1.26E-09	6.26E-10	1.24E-08
1555	259268.48	4083782.98	7.9353E-09	1.06E-07	1.85E-08	1.85E-08	1.03E-08	1.61E-07	1.20E-09	1.61E-08	2.89E-09	2.89E-09	1.59E-09	2.47E-08	6.54E-10	8.74E-09	1.29E-09	1.29E-09	6.37E-10	1.26E-08
1556	259291.07	4083791.34	8.0592E-09	1.08E-07	1.88E-08	1.88E-08	1.05E-08	1.64E-07	1.22E-09	1.64E-08	2.94E-09	2.94E-09	1.61E-09	2.51E-08	6.64E-10	8.87E-09	1.31E-09	1.31E-09	6.47E-10	1.28E-08
1557	259313.66	4083799.71	8.1667E-09	1.09E-07	1.91E-08	1.91E-08	1.06E-08	1.66E-07	1.24E-09	1.66E-08	2.97E-09	2.97E-09	1.64E-09	2.54E-08	6.73E-10	8.99E-09	1.32E-09	1.32E-09	6.55E-10	1.30E-08
1558	259336.25	4083808.07	8.2596E-09	1.10E-07	1.93E-08	1.93E-08	1.07E-08	1.68E-07	1.25E-09	1.68E-08	3.01E-09	3.01E-09	1.65E-09	2.57E-08	6.81E-10	9.09E-09	1.34E-09	1.34E-09	6.63E-10	1.31E-08
1559	259358.84	4083816.43	8.3398E-09	1.11E-07	1.95E-08	1.95E-08	1.08E-08	1.70E-07	1.27E-09	1.70E-08	3.04E-09	3.04E-09	1.67E-09	2.60E-08	6.87E-10	9.18E-09	1.35E-09	1.35E-09	6.69E-10	1.32E-08
1560	259391.36	4083846.75	8.615E-09	1.15E-07	2.01E-08	2.01E-08	1.12E-08	1.75E-07	1.31E-09	1.75E-08	3.14E-09	3.14E-09	1.73E-09	2.68E-08	7.10E-10	9.49E-09	1.40E-09	1.40E-09	6.91E-10	1.37E-08
1561	259401.29	4083868.69	8.819E-09	1.18E-07	2.06E-08	2.06E-08	1.15E-08	1.79E-07	1.34E-09	1.79E-08	3.21E-09	3.21E-09	1.77E-09	2.75E-08	7.27E-10	9.71E-09	1.43E-09	1.43E-09	7.07E-10	1.40E-08
1562	259411.22	4083890.64	9.0122E-09	1.20E-07	2.10E-08	2.10E-08	1.17E-08	1.83E-07	1.37E-09	1.83E-08	3.28E-09	3.28E-09	1.80E-09	2.81E-08	7.43E-10	9.92E-09	1.46E-09	1.46E-09	7.23E-10	1.43E-08
1563	259421.15	4083912.59	9.1907E-09	1.23E-07	2.14E-08	2.14E-08	1.20E-08	1.87E-07	1.39E-09	1.87E-08	3.35E-09	3.35E-09	1.84E-09	2.86E-08	7.58E-10	1.01E-08	1.49E-09	1.49E-09	7.37E-10	1.46E-08
1564	259431.08	4083934.54	9.3547E-09	1.25E-07	2.18E-08	2.18E-08	1.22E-08	1.90E-07	1.42E-09	1.90E-08	3.41E-09	3.41E-09	1.87E-09	2.91E-08	7.71E-10	1.03E-08	1.52E-09	1.52E-09	7.50E-10	1.49E-08
1565	259441.01	4083956.49	9.5042E-09	1.27E-07	2.22E-08	2.22E-08	1.24E-08	1.93E-07	1.44E-09	1.93E-08	3.46E-09	3.46E-09	1.90E-09	2.96E-08	7.83E-10	1.05E-08	1.54E-09	1.54E-09	7.62E-10	1.51E-08
1566	259450.94	4083978.43	9.6335E-09	1.29E-07	2.25E-08	2.25E-08	1.25E-08	1.96E-07	1.46E-09	1.96E-08	3.51E-09	3.51E-09	1.93E-09	3.00E-08	7.94E-10	1.06E-08	1.56E-09	1.56E-09	7.73E-10	1.53E-08
1567	259460.87	4084000.38	9.7447E-09	1.30E-07	2.27E-08	2.27E-08	1.27E-08	1.98E-07	1.48E-09	1.98E-08	3.55E-09	3.55E-09	1.95E-09	3.04E-08	8.03E-10	1.07E-08	1.58E-09	1.58E-09	7.82E-10	1.55E-08
1568	259470.79	4084022.33	9.8358E-09	1.31E-07	2.29E-08	2.29E-08	1.28E-08	2.00E-07	1.49E-09	2.00E-08	3.58E-09	3.58E-09	1.97E-09	3.06E-08	8.11E-10	1.08E-08	1.59E-09	1.59E-09	7.89E-10	1.56E-08
1569	259480.72	4084044.28	9.905E-09	1.32E-07	2.31E-08	2.31E-08	1.29E-08	2.01E-07	1.50E-09	2.02E-08	3.61E-09	3.61E-09	1.98E-09	3.09E-08	8.16E-10	1.09E-08	1.61E-09	1.61E-09	7.95E-10	1.57E-08
1570	259490.65	4084066.23	9.9506E-09	1.33E-07	2.32E-08	2.32E-08	1.29E-08	2.02E-07	1.51E-09	2.02E-08	3.62E-09	3.62E-09	1.99E-09	3.10E-08	8.20E-10	1.10E-08	1.61E-09	1.61E-09	7.98E-10	1.58E-08
1571	259500.58	4084088.17	9.9724E-09	1.33E-07	2.33E-08	2.33E-08	1.30E-08	2.03E-07	1.51E-09	2.03E-08	3.63E-09	3.63E-09	2.00E-09	3.11E-08	8.22E-10	1.10E-08	1.62E-09	1.62E-09	8.00E-10	1.58E-08
1572	259510.51	4084110.12	9.9706E-09	1.33E-07	2.33E-08	2.33E-08	1.30E-08	2.03E-07	1.51E-09	2.03E-08	3.63E-09	3.63E-09	2.00E-09	3.11E-08	8.22E-10	1.10E-08	1.62E-09	1.62E-09	8.00E-10	1.58E-08
1573	259520.44	4084132.07	9.9451E-09	1.33E-07	2.32E-08	2.32E-08	1.29E-08	2.02E-07	1.51E-09	2.02E-08	3.62E-09	3.62E-09	1.99E-09	3.10E-08	8.20E-10	1.09E-08	1.61E-09	1.61E-09	7.98E-10	1.58E-08
1574	259530.37	4084154.02	9.8941E-09	1.32E-07	2.31E-08	2.31E-08	1.29E-08	2.01E-07	1.50E-09	2.01E-08	3.60E-09	3.60E-09	1.98E-09	3.08E-08	8.16E-10	1.09E-08	1.60E-09	1.60E-09	7.94E-10	1.57E-08
1575	259540.3	4084175.97	9.8212E-09	1.31E-07	2.29E-08	2.29E-08	1.28E-08	2.00E-07	1.49E-09	2.00E-08	3.58E-09	3.58E-09	1.97E-09	3.06E-08	8.10E-10	1.08E-08	1.59E-09	1.59E-09	7.88E-10	1.56E-08
1576	259550.23	4084197.91	9.7246E-09	1.30E-07	2.27E-08	2.27E-08	1.26E-08	1.98E-07	1.48E-09	1.98E-08	3.54E-09	3.54E-09	1.95E-09	3.03E-08	8.02E-10	1.07E-08	1.58E-09	1.58E-09	7.80E-10	1.54E-08
1577	259560.16	4084219.86	9.6098E-09	1.28E-07	2.24E-08	2.24E-08	1.25E-08	1.95E-07	1.46E-09	1.96E-08	3.50E-09	3.50E-09	1.92E-09	2.99E-08	7.92E-10	1.06E-08	1.56E-09	1.56E-09	7.71E-10	1.53E-08
1578	259570.09	4084241.81	9.4768E-09	1.27E-07	2.21E-08	2.21E-08	1.23E-08	1.93E-07	1.44E-09	1.93E-08	3.45E-09	3.45E-09	1.90E-09	2.95E-08	7.81E-10	1.04E-08	1.54E-09	1.54E-09	7.60E-10	1.50E-08
1579	259580.02	4084263.76	9.3274E-09	1.25E-07	2.18E-08	2.18E-08	1.21E-08	1.90E-07	1.42E-09	1.90E-08	3.40E-09	3.40E-09	1.87E-09	2.91E-08	7.69E-10	1.03E-08	1.51E-09	1.51E-09	7.48E-10	1.48E-08
1580	259589.95	4084285.71	9.1707E-09	1.23E-07	2.14E-08	2.14E-08	1.19E-08	1.86E-07	1.39E-09	1.87E-08	3.34E-09	3.34E-09	1.84E-09	2.86E-08	7.56E-10	1.01E-08	1.49E-09	1.49E-09	7.36E-10	1.46E-08
1581	259599.88	4084307.65	9.0049E-09	1.20E-07	2.10E-08	2.10E-08	1.17E-08	1.83E-07	1.37E-09	1.83E-08	3.28E-09	3.28E-09	1.80E-09	2.81E-08	7.42E-10	9.91E-09	1.46E-09	1.46E-09	7.22E-10	1.43E-08
1582	259609.81	4084329.6	8.8373E-09	1.18E-07	2.06E-08	2.06E-08	1.15E-08	1.80E-07	1.34E-09	1.80E-08	3.22E-09	3.22E-09	1.77E-09	2.75E-08	7.28E-10	9.73E-09	1.43E-09	1.43E-09	7.09E-10	1.40E-08
1583	259619.74	4084351.55	8.6714E-09	1.16E-07	2.02E-08	2.02E-08	1.13E-08	1.76E-07	1.32E-09	1.76E-08	3.16E-09	3.16E-09	1.74E-09	2.70E-08	7.15E-10	9.55E-09	1.41E-09	1.41E-09	6.96E-10	1.38E-08
1584	259629.67	4084373.5	8.5075E-09	1.14E-07	1.98E-08	1.98E-08	1.11E-08	1.73E-07	1.29E-09	1.73E-08	3.10E-09	3.10E-09	1.70E-09	2.65E-08	7.01E-10	9.37E-09	1.38E-09	1.38E-09	6.82E-10	1.35E-08
1585	259639.59	4084395.45	8.3489E-09	1.12E-07	1.95E-08	1.95E-08	1.09E-08	1.70E-07	1.27E-09	1.70E-08	3.04E-09	3.04E-09	1.67E-09	2.60E-08	6.88E-10	9.19E-09	1.35E-09	1.35E-09	6.70E-10	1.33E-08
1586	259649.52	4084417.39	8.2214E-09	1.10E-07	1.92E-08	1.92E-08	1.07E-08	1.67E-07	1.25E-09	1.67E-08	2.99E-09	2.99E-09	1.65E-09	2.56E-08	6.78E-10	9.05E-09	1.33E-09	1.33E-09	6.60E-10	1.31E-08
1587	259659.45	4084439.34	8.0647E-09	1.08E-07	1.88E-08	1.88E-08	1.05E-08	1.64E-07	1.22E-09	1.64E-08	2.94E-09	2.94E-09	1.62E-09	2.51E-08	6.65E-10	8.88E-09	1.31E-09	1.31E-09	6.47E-10	1.28E-08
1588	259669.38	4084461.29	7.9062E-09	1.06E-07	1.84E-08	1.84E-08	1.03E-08	1.61E-07	1.20E-09	1.61E-08	2.88E-09	2.88E-09	1.58E-09	2.46E-08	6.52E-10	8.71E-09	1.28E-09	1.28E-09	6.34E-10	1.26E-08
1589	259679.31	4084483.24	7.7349E-09	1.03E-07	1.80E-08	1.80E-08	1.01E-08	1.57E-07	1.17E-09	1.57E-08	2.82E-09	2.82E-09	1.55E-09	2.41E-08	6.38E-10	8.52E-09	1.25E-09	1.25E-09	6.21E-10	1.23E-08
1590	259689.24	4084505.19	7.5545E-09	1.01E-07	1.76E-08	1.76E-08	9.83E-09	1.54E-07	1.15E-09	1.54E-08	2.75E-09	2.75E-09	1.51E-09	2.35E-08	6.23E-10	8.32E-09	1.22E-09	1.22E-09	6.06E-10	1.20E-08
1591	259699.17	4084527.13	7.3595E-09	9.83E-08	1.72E-08	1.72E-08	9.57E-09	1.50E-07	1.12E-09	1.50E-08	2.68E-09	2.68E-09	1.47E-09	2.29E-08	6.07E-10	8.10E-09	1.19E-09	1.19E-09	5.90E-10	1.17E-08
1592	259709.1	4084549.08	7.1482E-09	9.55E-08	1.67E-08	1.67E-08	9.30E-09	1.45E-07	1.08E-09	1.45E-08	2.60E-09	2.60E-09	1.43E-09	2.23E-08	5.89E-10	7.87E-09	1.16E-09	1.16E-09	5.73E-10	1.14E-08
1593	259719.03	4084571.03	6.924E-09	9.25E-08	1.62E-08	1.62E-08	9.01E-09	1.41E-07	1.05E-09	1.41E-08	2.52E-09	2.52E-09	1.39E-09	2.16E-08	5.71E-10	7.62E-09	1.12E-09	1.12E-09	5.55E-10	1.10E-08
1594	259728.96	4084592.98	6.6908E-09	8.94E-08	1.56E-08	1.56E-08	8.70E-09	1.36E-07	1.02E-09	1.36E-08	2.44E-09	2.44E-09	1.34E-09	2.08E-08	5.52E-10	7.37E-09	1.08E-09	1.08E-09	5.37E-10	1.06E-08
1595	259738.89	4084614.93	6.4576E-09	8.63E-08	1.51E-08	1.51E-08	8.40E-09	1.31E-07	9.80E-10	1.31E-08	2.35E-09	2.35E-09	1.29E-09	2.01E-08	5.32E-10	7.11E-09	1.05E-09	1.05E-09	5.18E-10	1.03E-08

1596	259748.82	4084636.87	6.228E-09	8.32E-08	1.45E-08	1.45E-08	8.10E-09	1.27E-07	9.45E-10	1.27E-08	2.27E-09	2.27E-09	1.25E-09	1.94E-08	5.13E-10	6.86E-09	1.01E-09	1.01E-09	5.00E-10	9.89E-09
1597	259758.75	4084658.82	6.013E-09	8.03E-08	1.40E-08	1.40E-08	7.82E-09	1.22E-07	9.13E-10	1.22E-08	2.19E-09	2.19E-09	1.20E-09	1.87E-08	4.96E-10	6.62E-09	9.75E-10	9.75E-10	4.82E-10	9.55E-09
1598	259768.68	4084680.77	5.8144E-09	7.77E-08	1.36E-08	1.36E-08	7.56E-09	1.18E-07	8.82E-10	1.18E-08	2.12E-09	2.12E-09	1.16E-09	1.81E-08	4.79E-10	6.40E-09	9.42E-10	9.42E-10	4.66E-10	9.23E-09
1599	259778.61	4084702.72	5.6358E-09	7.53E-08	1.31E-08	1.31E-08	7.33E-09	1.15E-07	8.55E-10	1.15E-08	2.05E-09	2.05E-09	1.13E-09	1.76E-08	4.65E-10	6.21E-09	9.13E-10	9.13E-10	4.52E-10	8.95E-09
1600	259788.54	4084724.67	5.4755E-09	7.31E-08	1.28E-08	1.28E-08	7.12E-09	1.11E-07	8.31E-10	1.11E-08	1.99E-09	1.99E-09	1.10E-09	1.71E-08	4.51E-10	6.03E-09	8.87E-10	8.87E-10	4.39E-10	8.69E-09
1601	259798.47	4084746.61	5.3279E-09	7.12E-08	1.24E-08	1.24E-08	6.93E-09	1.08E-07	8.09E-10	1.08E-08	1.94E-09	1.94E-09	1.07E-09	1.66E-08	4.39E-10	5.87E-09	8.64E-10	8.64E-10	4.27E-10	8.46E-09
1602	259808.39	4084768.56	5.1894E-09	6.93E-08	1.21E-08	1.21E-08	6.75E-09	1.05E-07	7.88E-10	1.06E-08	1.89E-09	1.89E-09	1.04E-09	1.62E-08	4.28E-10	5.71E-09	8.41E-10	8.41E-10	4.16E-10	8.24E-09
1603	259818.32	4084790.51	5.0545E-09	6.75E-08	1.18E-08	1.18E-08	6.57E-09	1.03E-07	7.67E-10	1.03E-08	1.84E-09	1.84E-09	1.01E-09	1.57E-08	4.17E-10	5.57E-09	8.19E-10	8.19E-10	4.05E-10	8.03E-09
1604	259828.25	4084812.46	4.9179E-09	6.57E-08	1.15E-08	1.15E-08	6.40E-09	1.00E-07	7.46E-10	1.00E-08	1.79E-09	1.79E-09	9.85E-10	1.53E-08	4.05E-10	5.41E-09	7.97E-10	7.97E-10	3.95E-10	7.81E-09
1605	259838.18	4084834.41	4.7776E-09	6.38E-08	1.11E-08	1.11E-08	6.21E-09	9.71E-08	7.25E-10	9.72E-09	1.74E-09	1.74E-09	9.57E-10	1.49E-08	3.94E-10	5.26E-09	7.74E-10	7.74E-10	3.83E-10	7.59E-09
1606	259848.11	4084856.35	4.6318E-09	6.19E-08	1.08E-08	1.08E-08	6.02E-09	9.41E-08	7.03E-10	9.43E-09	1.69E-09	1.69E-09	9.28E-10	1.44E-08	3.82E-10	5.10E-09	7.51E-10	7.51E-10	3.72E-10	7.35E-09
1607	258297.07	4083423.33	1.6672E-09	2.23E-08	3.89E-09	3.89E-09	2.17E-09	3.39E-08	2.53E-10	3.39E-09	6.07E-10	6.07E-10	3.34E-10	5.19E-09	1.37E-10	1.84E-09	2.70E-10	2.70E-10	1.34E-10	2.65E-09
1608	258272.73	4083424.33	1.6344E-09	2.18E-08	3.81E-09	3.81E-09	2.13E-09	3.32E-08	2.48E-10	3.33E-09	5.95E-10	5.95E-10	3.27E-10	5.09E-09	1.35E-10	1.80E-09	2.65E-10	2.65E-10	1.31E-10	2.60E-09
1609	258248.4	4083425.33	1.6035E-09	2.14E-08	3.74E-09	3.74E-09	2.09E-09	3.26E-08	2.43E-10	3.26E-09	5.84E-10	5.84E-10	3.21E-10	5.00E-09	1.32E-10	1.77E-09	2.60E-10	2.60E-10	1.29E-10	2.55E-09
1610	258224.07	4083426.33	1.5743E-09	2.10E-08	3.67E-09	3.67E-09	2.05E-09	3.20E-08	2.39E-10	3.20E-09	5.73E-10	5.73E-10	3.15E-10	4.90E-09	1.30E-10	1.73E-09	2.55E-10	2.55E-10	1.26E-10	2.50E-09
1611	258199.74	4083427.33	1.5452E-09	2.06E-08	3.60E-09	3.60E-09	2.01E-09	3.14E-08	2.35E-10	3.14E-09	5.63E-10	5.63E-10	3.09E-10	4.81E-09	1.27E-10	1.70E-09	2.50E-10	2.50E-10	1.24E-10	2.45E-09
1612	258175.41	4083428.33	1.5178E-09	2.03E-08	3.54E-09	3.54E-09	1.97E-09	3.08E-08	2.30E-10	3.09E-09	5.53E-10	5.53E-10	3.04E-10	4.73E-09	1.25E-10	1.67E-09	2.46E-10	2.46E-10	1.22E-10	2.41E-09
1613	258151.07	4083429.33	1.4905E-09	1.99E-08	3.48E-09	3.48E-09	1.94E-09	3.03E-08	2.26E-10	3.03E-09	5.43E-10	5.43E-10	2.99E-10	4.64E-09	1.23E-10	1.64E-09	2.42E-10	2.42E-10	1.20E-10	2.37E-09
1614	258126.74	4083430.33	1.4632E-09	1.95E-08	3.41E-09	3.41E-09	1.90E-09	2.97E-08	2.22E-10	2.98E-09	5.33E-10	5.33E-10	2.93E-10	4.56E-09	1.21E-10	1.61E-09	2.37E-10	2.37E-10	1.17E-10	2.32E-09
1615	258102.41	4083431.33	1.4358E-09	1.92E-08	3.35E-09	3.35E-09	1.87E-09	2.92E-08	2.18E-10	2.92E-09	5.23E-10	5.23E-10	2.88E-10	4.47E-09	1.18E-10	1.58E-09	2.33E-10	2.33E-10	1.15E-10	2.28E-09
1616	258078.08	4083432.33	1.4085E-09	1.88E-08	3.29E-09	3.29E-09	1.83E-09	2.86E-08	2.14E-10	2.87E-09	5.13E-10	5.13E-10	2.82E-10	4.39E-09	1.16E-10	1.55E-09	2.28E-10	2.28E-10	1.13E-10	2.24E-09
1617	258053.75	4083433.33	1.383E-09	1.85E-08	3.23E-09	3.23E-09	1.80E-09	2.81E-08	2.10E-10	2.81E-09	5.04E-10	5.04E-10	2.77E-10	4.31E-09	1.14E-10	1.52E-09	2.24E-10	2.24E-10	1.11E-10	2.20E-09
1618	258029.42	4083434.33	1.3557E-09	1.81E-08	3.16E-09	3.16E-09	1.76E-09	2.76E-08	2.06E-10	2.76E-09	4.94E-10	4.94E-10	2.71E-10	4.22E-09	1.12E-10	1.49E-09	2.20E-10	2.20E-10	1.09E-10	2.15E-09
1619	258005.08	4083435.33	1.3301E-09	1.78E-08	3.10E-09	3.10E-09	1.73E-09	2.70E-08	2.02E-10	2.71E-09	4.85E-10	4.85E-10	2.66E-10	4.14E-09	1.10E-10	1.46E-09	2.16E-10	2.16E-10	1.07E-10	2.11E-09
1620	257980.75	4083436.33	1.3028E-09	1.74E-08	3.04E-09	3.04E-09	1.69E-09	2.65E-08	1.98E-10	2.65E-09	4.75E-10	4.75E-10	2.61E-10	4.06E-09	1.07E-10	1.43E-09	2.11E-10	2.11E-10	1.05E-10	2.07E-09
1621	257956.42	4083437.33	1.2773E-09	1.71E-08	2.98E-09	2.98E-09	1.66E-09	2.60E-08	1.94E-10	2.60E-09	4.65E-10	4.65E-10	2.56E-10	3.98E-09	1.05E-10	1.41E-09	2.07E-10	2.07E-10	1.02E-10	2.03E-09
1622	257932.09	4083438.33	1.2536E-09	1.67E-08	2.92E-09	2.92E-09	1.63E-09	2.55E-08	1.90E-10	2.55E-09	4.57E-10	4.57E-10	2.51E-10	3.91E-09	1.03E-10	1.38E-09	2.03E-10	2.03E-10	1.01E-10	1.99E-09
1623	257907.76	4083439.33	1.2281E-09	1.64E-08	2.87E-09	2.87E-09	1.60E-09	2.50E-08	1.86E-10	2.50E-09	4.47E-10	4.47E-10	2.46E-10	3.83E-09	1.01E-10	1.35E-09	1.99E-10	1.99E-10	9.85E-11	1.95E-09
1624	257883.42	4083440.33	1.2044E-09	1.61E-08	2.81E-09	2.81E-09	1.57E-09	2.45E-08	1.83E-10	2.45E-09	4.39E-10	4.39E-10	2.41E-10	3.75E-09	9.93E-11	1.33E-09	1.95E-10	1.95E-10	9.66E-11	1.91E-09
1625	257859.09	4083441.33	1.1826E-09	1.58E-08	2.76E-09	2.76E-09	1.54E-09	2.40E-08	1.79E-10	2.41E-09	4.31E-10	4.31E-10	2.37E-10	3.68E-09	9.75E-11	1.30E-09	1.92E-10	1.92E-10	9.49E-11	1.88E-09
1626	257834.76	4083442.33	1.1607E-09	1.55E-08	2.71E-09	2.71E-09	1.51E-09	2.36E-08	1.76E-10	2.36E-09	4.23E-10	4.23E-10	2.32E-10	3.62E-09	9.57E-11	1.28E-09	1.88E-10	1.88E-10	9.31E-11	1.84E-09
1627	257810.43	4083443.33	1.1406E-09	1.52E-08	2.66E-09	2.66E-09	1.48E-09	2.32E-08	1.73E-10	2.32E-09	4.16E-10	4.16E-10	2.28E-10	3.55E-09	9.40E-11	1.26E-09	1.85E-10	1.85E-10	9.15E-11	1.81E-09
1628	257786.1	4083444.33	1.1206E-09	1.50E-08	2.61E-09	2.61E-09	1.46E-09	2.28E-08	1.70E-10	2.28E-09	4.08E-10	4.08E-10	2.24E-10	3.49E-09	9.24E-11	1.23E-09	1.82E-10	1.82E-10	8.99E-11	1.78E-09
1629	257761.77	4083445.33	1.1024E-09	1.47E-08	2.57E-09	2.57E-09	1.43E-09	2.24E-08	1.67E-10	2.24E-09	4.02E-10	4.02E-10	2.21E-10	3.43E-09	9.09E-11	1.21E-09	1.79E-10	1.79E-10	8.84E-11	1.75E-09
1630	257737.43	4083446.33	1.0842E-09	1.45E-08	2.53E-09	2.53E-09	1.41E-09	2.20E-08	1.65E-10	2.21E-09	3.95E-10	3.95E-10	2.17E-10	3.38E-09	8.94E-11	1.19E-09	1.76E-10	1.76E-10	8.70E-11	1.72E-09
1631	257713.1	4083447.33	1.0678E-09	1.43E-08	2.49E-09	2.49E-09	1.39E-09	2.17E-08	1.62E-10	2.17E-09	3.89E-10	3.89E-10	2.14E-10	3.33E-09	8.80E-11	1.18E-09	1.73E-10	1.73E-10	8.57E-11	1.70E-09
1632	257688.77	4083448.33	1.0514E-09	1.40E-08	2.45E-09	2.45E-09	1.37E-09	2.14E-08	1.60E-10	2.14E-09	3.83E-10	3.83E-10	2.11E-10	3.28E-09	8.67E-11	1.16E-09	1.70E-10	1.70E-10	8.43E-11	1.67E-09
1633	257664.44	4083449.33	1.0368E-09	1.38E-08	2.42E-09	2.42E-09	1.35E-09	2.11E-08	1.57E-10	2.11E-09	3.78E-10	3.78E-10	2.08E-10	3.23E-09	8.55E-11	1.14E-09	1.68E-10	1.68E-10	8.32E-11	1.65E-09
1634	257640.11	4083450.33	1.0222E-09	1.37E-08	2.38E-09	2.38E-09	1.33E-09	2.08E-08	1.55E-10	2.08E-09	3.72E-10	3.72E-10	2.05E-10	3.18E-09	8.43E-11	1.13E-09	1.66E-10	1.66E-10	8.20E-11	1.62E-09
1635	257615.77	4083451.33	1.0076E-09	1.35E-08	2.35E-09	2.35E-09	1.31E-09	2.05E-08	1.53E-10	2.05E-09	3.67E-10	3.67E-10	2.02E-10	3.14E-09	8.31E-11	1.11E-09	1.63E-10	1.63E-10	8.08E-11	1.60E-09
1636	257591.44	4083452.33	9.9487E-10	1.33E-08	2.32E-09	2.32E-09	1.29E-09	2.02E-08	1.51E-10	2.02E-09	3.62E-10	3.62E-10	1.99E-10	3.10E-09	8.20E-11	1.10E-09	1.61E-10	1.61E-10	7.98E-11	1.58E-09
1637	257567.11	4083453.34	9.8212E-10	1.31E-08	2.29E-09	2.29E-09	1.28E-09	2.00E-08	1.49E-10	2.00E-09	3.58E-10	3.58E-10	1.97E-10	3.06E-09	8.10E-11	1.08E-09	1.59E-10	1.59E-10	7.88E-11	1.56E-09
1638	257542.78	4083454.34	9.6937E-10	1.29E-08	2.26E-09	2.26E-09	1.26E-09	1.97E-08	1.47E-10	1.97E-09	3.53E-10	3.53E-10	1.94E-10	3.02E-09	7.99E-11	1.07E-09	1.57E-10	1.57E-10	7.78E-11	1.54E-09
1639	257518.45	4083455.34	9.5661E-10	1.28E-08	2.23E-09	2.23E-09	1.24E-09	1.94E-08	1.45E-10	1.95E-09	3.48E-10	3.48E-10	1.92E-10	2.98E-09	7.89E-11	1.05E-09	1.55E-10	1.55E-10	7.67E-11	1.52E-09
1640	257494.12	4083456.34	9.4568E-10	1.26E-08	2.21E-09	2.21E-09	1.23E-09	1.92E-08	1.44E-10	1.92E-09	3.44E-10	3.44E-10	1.89E-10	2.95E-09	7.80E-11	1.04E-09	1.53E-10	1.53E-10	7.59E-11	1.50E-09
1641	257530.75	4084956	7.2311E-08	9.66E-07	1.69E-07	1.69E-07	9.41E-08	1.47E-06	1.10E-08	1.47E-07	2.63E-08	2.63E-08	1.45E-08	2.25E-07	5.96E-09	7.96E-08	1.17E-08	1.17E-08	5.80E-09	1.15E-07
1642	257532.4	4085000.56	1.9154E-07	2.56E-06	4.47E-07	4.47E-07	2.49E-07	3.89E-06	2.91E-08	3.90E-07	6.98E-08	6.98E-08	3.84E-08	5.97E-07	1.58E-08	2.11E-07	3.10E-08	3.10E-08	1.54E-08	3.04E-07
1643	257534.05	4085045.12	3.0442E-07	4.07E-06	7.10E-07	7.10E-07	3.96E-07	6.19E-06	4.62E-08	6.19E-07	1.11E-07	1.11E-07	6.10E-08	9.48E-07	2.51E-08	3.35E-07	4.93E-08	4.93E-08	2.44E-08	4.83E-07
1644	257534.87	4085067.4	3.4033E-07	4.55E-06	7.94E-07	7.94E-07	4.43E-07	6.92E-06	5.17E-08	6.93E-07	1.24E-07	1.24E-07	6.82E-08	1.06E-06	2.81E-08	3.75E-07	5.52E-08	5.52E-08	2.73E-08	5.40E-07
1645	257536.53	4085111.96	3.827E-07	5.11E-06	8.93E-07	8.93E-07	4.98E-07	7.78E-06	5.81E-08	7.79E-07	1.39E-07	1.39E-07	7.66E-08	1.19E-06	3.15E-08	4.21E-07	6.20E-08	6.20E-08	3.07E-08	6.08E-07
1646	257538.18	4085156.53	3.7016E-07	4.94E-06	8.64E-07	8.64E-07	4.81E-07	7.52E-06	5.62E-08	7.53E-07	1.35E-07	1.35E-07	7.41E-08	1.15E-06	3.05E-08	4.08E-07	6.00E-08	6.00E-08	2.97E-08	5.88E-07
1647	257512.39	4084939.02	4.5239E-08	6.04E-07	1.06E-07	1.06E-07	5.88E-08	9.19E-07	6.87E-09	9.21E-08	1.65E-08	1.65E-08	9.06E-09	1.41E-07	3.73E-09	4.98E-08	7.33E-09	7.33E-09	3.63E-09	7.18E-08
1648	257506.59	4084979.2	7.586E-08	1.01E-06	1.77E-07	1.77E-07	9.87E-08	1.54E-06	1.15E-08	1.54E-07	2.76E-08	2.76E-08	1.52E-08	2.36E-07	6.25E-09	8.35E-08	1.23E-08	1.23E-08	6.09E-09	1.20E-07
1649	257508.24	4085023.76	1.4477E-07	1.93E-06	3.38E-07	3.38E-07	1.88E-07	2.94E-06	2.20E-08	2.95E-07	5.27E-08	5.27E-08	2.90E-08	4.51E-07	1.19E-08	1.59E-07	2.35E-08	2.35E-08	1.16E-08	2.30E-07
1650	257509.89	4085068.33	2.0645E-07	2.76E-06	4.82E-07	4.82E-07	2.69E-07	4.20E-06	3.13E-08	4.20E-07	7.52E-08	7.52E-08	4.13E-08	6.43E-07	1.70E-08	2.27E-07	3.35E-08	3.35E-08	1.66E-08	3.28E-07
1651	257511.54	4085112.89	2.4403E-07	3.26E-06	5.69E-07	5.69E-07	3.17E-07	4.96E-06	3.70E-08	4.97E-07	8.89E-08	8.89E-08	4.89E-08	7.60E-07	2.01E-08	2.69E-07	3.96E-08	3.96E-08	1.96E-08	3.87E-07
1652	257513.19	4085157.45	2.505E-07	3.35E-06	5.84E-07	5.84E-07	3.26E-07	5.09E-06	3.80E-08	5.10E-07	9.13E-08	9.13E-08	5.02E-08	7.80E-07	2.06E-08	2.76E-07	4.06E-08	4.06E-08	2.01E-08	3.98E-07
1653	257487.41	4084939.95	3.7317E-08	4.98E-07	8.71E-08	8.71E-08	4.85E-08	7.58E-07	5.66E-09	7.59E-08	1.36E-08	1.36E-08	7.47E-09	1.16E-07	3.08E-09	4.11E-08	6.05E-09	6.05E-09	2.99E-09	5.93E-08
1654	257517.99	4084896.14	2.9899E-08	3.99E-07	6.98E-08	6.98E-08	3.89E-08	6.08E-07	4.54E-09	6.08E-08	1.09E-08	1.09E-08	5.99E-09	9.32E-08	2.46E-09	3.29E-08	4.85E-09	4.85E-09	2.40E-09	4.75E-08
1655	257481.61	4084980.13	5.5992E-08	7.48E-07	1.31E-07	1.31E-07	7.28E-08	1.14E-06	8.50E-09	1.14E-07	2.04E-08	2.04E-08	1.12E-08	1.74E-07	4.62E-09	6.16E-08	9.07E-09	9.07E-09	4.49E-09	8.89E-08
1656	257483.26	4085024.69	9.5103E-08	1.27E-06	2.22E-07	2.22E-07	1.24E-07	1.93E-06	1.44E-08	1.94E-07	3.46E-08	3.46E-08	1.90E-08	2.96E-07	7.84E-09	1.05E-07	1.54E-08	1.54E-08	7.63E-09	1.51E-07
1657	257484.91	4085069.25	1.3866E-07	1.85E-06	3.24E-07	3.24E-07	1.80E-07	2.82E-06	2.10E-08	2.82E-07	5.05E-08	5.05E-08	2.78E-08	4.32E-07	1.14E-08	1.53E-07	2.25E-08	2.25E-08	1.11E-08	2.20E-07
1658	257486.56	4085113.81	1.7014E-07	2.27E-06	3.97E-07	3.97E-07	2.21E-07	3.46E-06	2.58E-08	3.46E-07	6.20E-08	6.20E-08	3.41E-08	5.30E-07	1.40E-08	1.87E-07	2.76E-08	2.76E-08	1.36E-08	2.70E-07
1659	257488.21	4085158.38	1.8261E-07	2.44E-06	4.26E-07	4.26E-07	2.38E-07	3.71E-06	2.77E-08	3.72E-07	6.65E-08	6.65E-08	3.66E-08	5.69E-07	1.51E-08	2.01E-07	2.96E-08	2.96E-08	1.46E-08	2.90E-07
1660	257462.43	4084940.87	3.1648E-08	4.23E-07	7.38E-08	7.38E-08	4.12E-08	6.43E-07	4.80E-09	6.44E-08	1.15E-08	1.15E-08	6.34E-09	9.86E-08	2.61E-09	3.48E-08	5.13E-09	5.13E-09	2.54E-09	5.03E-08
1661	257475.68	4084905.07	2.5291E-08	3.38E-07	5.90E-08	5.90E-08	3.29E-08	5.14E-07	3.84E-09	5.15E-08	9.21E-09	9.21E-09	5.07E-09	7.88E-08	2.08E-09	2.78E-08	4.10E-09	4.10E-09	2.03E-09	4.02E-08
1662	257499.64	4084879.17	2.3438E-08	3.13E-07	5.47E-08	5.47E-08	3.05E-08	4.76E-07	3.56E-09	4.77E-08	8.54E-09	8.54E-09	4.69E-09	7.30E-08	1.93E-09	2.58E-08	3.80E-09	3.80E-09	1.88E-09	3.72E-08
1663	257456.62	4084981.05	4.4429E-08	5.93E-07	1.04E-07	1.04E-07	5.78E-08	9.03E-07	6.74E-09	9.04E-08	1.62E-08	1.62E-08	8.90E-09	1.38E-07	3.66E-09	4.89E-08	7.20E-09	7.20E-09	3.56E-09	7.05E-08
1664	257458.28	4085025.62	6.8918E-08	9.21E-07	1.61E-07	1.61E-07	8.96E-08	1.40E-06	1.05E-08	1.40E-07	2.51E-08	2.51E-08	1.38E-08	2.15E-07	5.68E-09	7.59E-08	1.12E-08	1.12E-08	5.53E-09	1.09E-07
1665	257459.1	4085047.9	8.4164E-08	1.12E-06	1.96E-07	1.96E-07	1.09E-07	1.71E-06	1.28E-08	1.71E-07	3.07E-08	3.07E-08	1.69E-08	2.62E-07	6.94E-09	9.27E-08	1.36E-08	1.36E-08	6.75E-09	1.34E-07
1666	257460.75	4085092.46	1.1348E-07	1.52E-06	2.65E-07	2.65E-07	1.48E-07	2.31E-06	1.72E-08	2.31E-07	4.13E-08	4.13E-08	2.27E-08	3.54E-07	9.35E-09	1.25E-07	1.84E-08	1.84E-08	9.10E-09	1.80E-07
1667	257462.4	4085137.02	1.3375E-07	1.79E-06	3.12E-07	3.12E-07	1.74E-07	2.72E-06	2.03E-08	2.72E-07	4.87E-08	4.87E-08	2.68E-08	4.17E-07	1.10E-08	1.47E-07	2.17E-08	2.17E-08	1.07E-08	2.12E-07
1668	257412.46	4084942.72	2.4077E-08	3.22E-07	5.62E-08	5.62E-08	3.13E-08	4.89E-07	3.65E-09	4.90E-08	8.77E-09	8.77E-09	4.82E-09	7.50E-08	1.98E-09	2.65E-08	3.90E-09	3.90E-09	1.93E-09	3.82E-08
1669	257425.72	4084906.93	2.004E-08	2.68E-07	4.68E-08	4.68E-08	2.61E-08	4.07E-07	3.04E-09	4.08E-08	7.30E-09	7.30E-09	4.01E-09	6.24E-08	1.65E-09	2.21E-08	3.25E-09	3.25E-09	1.61E-09	3.18E-08
1670	257438.97	4084871.13	1.6973E-08	2.27E-07	3.96E-08	3.96E-08	2.21E-08	3.45E-07	2.58E-09	3.45E-08	6.18E-09	6.18E-09	3.40E-09	5.29E-08	1.40E-09	1.87E-08	2.75E-09	2.75E-09	1.36E-09	2.70E-08
1671	257462.93	4084845.22	1.5996E-08	2.14E-07	3.73E-08	3.73E-08	2.08E-08	3.25E-07	2.43E-09	3.26E-08	5.83E-09	5.83E-09	3.20E-09	4.98E-08	1.32E-09	1.76E-08	2.59E-09	2.59E-09	1.28E-09	2.54E-08
1672	257497.59	4084829.21	1.6594E-08	2.22E-07	3.87E-08	3.87E-08	2.16E-08	3.37E-07	2.52E-09	3.38E-08	6.04E-09	6.04E-09	3.32E-09	5.17E-08	1.37E-09	1.83E-08	2.69E-09	2.69E-09	1.33E-09	2.63E-08
1673	257406.66	4084982.91	3.1271E-08	4.18E-07	7.30E-08	7.30E-08	4.07E-08	6.36E-07	4.75E-09	6.36E-08	1.14E-08	1.14E-08	6.26E-09	9.74E-08	2.58E-09	3.44E-08	5.07E-09	5.07E-09	2.51E-09	4.97E-08
1674	257408.31	4085027.47	4.3219E-08	5.77E-07	1.01E-07	1.01E-07	5.62E-08	8.78E-07	6.56E-09	8.79E-08	1.57E-08	1.57E-08	8.66E-09	1.35E-07	3.56E-09	4.76E-08	7.00E-09	7.00E-09	3.47E-09	6.86E-08
1675	257409.96	4085072.03	5.8814E-08	7.86E-07	1.37E-07	1.37E-07	7.65E-08	1.20E-06	8.93E-09	1.20E-07	2.14E-08	2.14E-08	1.18E-08	1.83E-07	4.85E-09	6.48E-08	9.53E-09	9.53E-09	4.72E-09	9.34E-08
1676	257411.61	4085116.59	7.5024E-08	1.00E-06	1.75E-07	1.75E-07	9.76E-08	1.52E-06	1.14E-08	1.53E-07	2.73E-08	2.73E-08	1.50E-08	2.34E-07	6.18E-09	8.26E-08	1.22E-08	1.22E-08	6.02E-09	1.19E-07
1677	257413.26	4085161.15	8.6984E-08	1.16E-06	2.03E-07	2.03E-07	1.13E-07	1.77E-06	1.32E-08	1.77E-07	3.17E-08	3.17E-08	1.74E-08	2.71E-07	7.17E-09	9.58E-08	1.41E-08	1.41E-08	6.98E-09	1.38E-07
1678	257363.44	4084942.02	1.9028E-08	2.54E-07	4.44E-08	4.44E-08	2.48E-08	3.87E-07	2.89E-09	3.87E-08	6.93E-09	6.93E-09	3.81E-09	5.93E-08	1.57E-09	2.10E-08	3.08E-09	3.08E-09	1.53E-09	3.02E-08
1679	257378.59	4084901.11	1.5913E-08	2.13E-07	3.71E-08	3.71E-08	2.07E-08	3.23E-07	2.42E-09	3.24E-08	5.80E-09	5.80E-09	3.19E-09	4.96E-08	1.31E-09	1.75E-08	2.58E-09	2.58E-09	1.28E-09	2.53E-08
1680	257393.74	4084860.19	1.3549E-08	1.81E-07	3.16E-08	3.16E-08	1.76E-08	2.75E-07	2.06E-09	2.76E-08	4.94E-09	4.94E-09	2.71E-09	4.22E-08	1.12E-09	1.49E-08	2.20E-09	2.20E-09	1.09E-09	2.15E-08
1681	257428.7	4084810.13	1.1884E-08	1.59E-07	2.77E-08	2.77E-08	1.55E-08	2.42E-07	1.80E-09	2.42E-08	4.33E-09	4.33E-09	2.38E-09	3.70E-08	9.80E-10	1.31E-08	1.93E-09	1.93E-09	9.53E-10	1.89E-08
1682	257468.3	4084791.83	1.225E-08	1.64E-07	2.86E-08	2.86E-08	1.59E-08	2.49E-07	1.86E-09	2.49E-08	4.46E-09	4.46E-09	2.45E-09	3.82E-08	1.01E-09	1.35E-08	1.99E-09	1.99E-09	9.83E-10	1.95E-08
1683	257507.91	4084773.54	1.2662E-08	1.69E-07	2.95E-08	2.95E-08	1.65E-08	2.57E-07	1.92E-09	2.58E-08	4.61E-09	4.61E-09	2.54E-09	3.94E-08	1.04E-09	1.39E-08	2.05E-09	2.05E-09	1.02E-09	2.01E-08
1684	257356.69	4084984.76	2.3923E-08	3.20E-07	5.58E-08	5.58E-08	3.11E-08	4.86E-07	3.63E-09	4.87E-08	8.71E-09	8.71E-09	4.79E-09	7.45E-08	1.97E-09	2.63E-08	3.88E-09	3.88E-09	1.92E-09	3.80E-08
1685	257358.34	4085029.32	3.0996E-08	4.14E-07	7.23E-08	7.23E-08	4.03E-08	6.30E-07	4.70E-09	6.31E-08	1.13E-08	1.13E-08	6.21E-09	9.66E-08	2.55E-09	3.41E-08	5.02E-09	5.02E-09	2.49E-09	4.92E-08
1686	257359.99	4085073.88	3.9646E-08	5.30E-07	9.25E-08	9.25E-08	5.16E-08	8.06E-07	6.02E-09	8.07E-08	1.44E-08	1.44E-08	7.94E-09	1.24E-07	3.27E-09	4.37E-08	6.43E-09	6.43E-09	3.18E-09	6.30E-08
1687	257361.65	4085118.44	4.9572E-08	6.62E-07	1.16E-07	1.16E-07	6.45E-08	1.01E-06	7.52E-09	1.01E-07	1.81E-08	1.81E-08	9.93E-09	1.54E-07	4.09E-09	5.46E-08	8.03E-09	8.03E-09	3.98E-09	7.87E-08
1688	257363.3	4085163.01	5.8612E-08	7.83E-07	1.37E-07	1.37E-07	7.62E-08	1.19E-06	8.90E-09	1.19E-07	2.14E-08	2.14E-08	1.17E-08	1.83E-07	4.83E-09	6.45E-08	9.50E-09	9.50E-09	4.70E-09	9.31E-08
1689	257313.27	4084944.44	1.5809E-08	2.11E-07	3.69E-08	3.69E-08	2.06E-08	3.21E-07	2.40E-09	3.22E-08	5.76E-09	5.76E-09	3.17E-09	4.93E-08	1.30E-09	1.74E-08	2.56E-09	2.56E-09	1.27E-09	2.51E-08
1690	257328	4084904.66	1.3524E-08	1.81E-07	3.16E-08	3.16E-08	1.76E-08	2.75E-07	2.05E-09	2.75E-08	4.93E-09	4.93E-09	2.71E-09	4.21E-08	1.11E-09	1.49E-08	2.19E-09	2.19E-09	1.08E-09	2.15E-08
1691	257342.73	4084864.88	1.174E-08	1.57E-07	2.74E-08	2.74E-08	1.53E-08	2.39E-07	1.78E-09	2.39E-08	4.28E-09	4.28E-09	2.35E-09	3.66E-08	9.68E-10	1.29E-08	1.90E-09	1.90E-09	9.42E-10	1.86E-08
1692	257357.46	4084825.11	1.0331E-08	1.38E-07	2.41E-08	2.41E-08	1.34E-08	2.10E-07	1.57E-09	2.10E-08	3.76E-09	3.76E-09	2.07E-09	3.22E-08	8.52E-10	1.14E-08	1.67E-09	1.67E-09	8.29E-10	1.64E-08
1693	257391.44	4084776.44	9.2636E-09	1.24E-07	2.16E-08	2.16E-08	1.20E-08	1.88E-07	1.41E-09	1.89E-08	3.37E-09	3.37E-09	1.86E-09	2.89E-08	7.64E-10	1.02E-08	1.50E-09	1.50E-09	7.43E-10	1.47E-08
1694	257429.94	4084758.65	9.4805E-09	1.27E-07	2.21E-08	2.21E-08	1.23E-08	1.93E-07	1.44E-09	1.93E-08	3.45E-09	3.45E-09	1.90E-09	2.95E-08	7.81E-10	1.04E-08	1.54E-09	1.54E-09	7.61E-10	1.51E-08
1695	257468.45	4084740.86	9.6882E-09	1.29E-07	2.26E-08	2.26E-08	1.26E-08	1.97E-07	1.47E-09	1.97E-08	3.53E-09	3.53E-09	1.94E-09	3.02E-08	7.99E-10	1.07E-08	1.57E-09	1.57E-09	7.77E-10	1.54E-08
1696	257506.96	4084723.07	9.9451E-09	1.33E-07	2.32E-08	2.32E-08	1.29E-08	2.02E-07	1.51E-09	2.02E-08	3.62E-09	3.62E-09	1.99E-09	3.10E-08	8.20E-10	1.09E-08	1.61E-09	1.61E-09	7.98E-10	1.58E-08
1697	257306.73	4084986.61	1.926E-08	2.57E-07	4.49E-08	4.49E-08	2.51E-08	3.91E-07	2.92E-09	3.92E-08	7.02E-09	7.02E-09	3.86E-09	6.00E-08	1.59E-09	2.12E-08	3.12E-09	3.12E-09	1.55E-09	3.06E-08
1698	257307.55	4085008.89	2.1548E-08	2.88E-07	5.03E-08	5.03E-08	2.80E-08	4.38E-07	3.27E-09	4.38E-08	7.85E-09	7.85E-09	4.32E-09	6.71E-08	1.78E-09	2.37E-08	3.49E-09	3.49E-09	1.73E-09	3.42E-08
1699	257309.2	4085053.45	2.6492E-08	3.54E-07	6.18E-08	6.18E-08	3.45E-08	5.38E-07	4.02E-09	5.39E-08	9.65E-09	9.65E-09	5.31E-09	8.25E-08	2.18E-09	2.92E-08	4.29E-09	4.29E-09	2.13E-09	4.21E-08
1700	257310.85	4085098.01	3.2193E-08	4.30E-07	7.51E-08	7.51E-08	4.19E-08	6.54E-07	4.89E-09	6.55E-08	1.17E-08	1.17E-08	6.45E-09	1.00E-07	2.65E-09	3.54E-08	5.22E-09	5.22E-09	2.58E-09	5.11E-08
1701	257312.51	4085142.58	3.8529E-08	5.15E-07	8.99E-08	8.99E-08	5.01E-08	7.83E-07	5.85E-09	7.84E-08	1.40E-08	1.40E-08	7.72E-09	1.20E-07	3.18E-09	4.24E-08	6.24E-09	6.24E-09	3.09E-09	6.12E-08
1702	257263.17	4084946.65	1.3482E-08	1.80E-07	3.15E-08	3.15E-08	1.75E-08	2.74E-07	2.05E-09	2.74E-08	4.91E-09	4.91E-09	2.70E-09	4.20E-08	1.11E-09	1.48E-08	2.19E-09	2.19E-09	1.08E-09	2.14E-08
1703	257277.63	4084907.6	1.1698E-08	1.56E-07	2.73E-08	2.73E-08	1.52E-08	2.38E-07	1.78E-09	2.38E-08	4.26E-09	4.26E-09	2.34E-09	3.64E-08	9.64E-10	1.29E-08	1.90E-09	1.90E-09	9.38E-10	1.86E-08
1704	257292.09	4084868.54	1.0282E-08	1.37E-07	2.40E-08	2.40E-08	1.34E-08	2.09E-07	1.56E-09	2.09E-08	3.75E-09	3.75E-09	2.06E-09	3.20E-08	8.48E-10	1.13E-08	1.67E-09	1.67E-09	8.25E-10	1.63E-08
1705	257306.55	4084829.49	9.158E-09	1.22E-07	2.14E-08	2.14E-08	1.19E-08	1.86E-07	1.39E-09	1.86E-08	3.34E-09	3.34E-09	1.83E-09	2.85E-08	7.55E-10	1.01E-08	1.48E-09	1.48E-09	7.35E-10	1.45E-08
1706	257321.01	4084790.44	8.2287E-09	1.10E-07	1.92E-08	1.92E-08	1.07E-08	1.67E-07	1.25E-09	1.67E-08	3.00E-09	3.00E-09	1.65E-09	2.56E-08	6.78E-10	9.06E-09	1.33E-09	1.33E-09	6.60E-10	1.31E-08
1707	257354.38	4084742.65	7.4871E-09	1.00E-07	1.75E-08	1.75E-08	9.74E-09	1.52E-07	1.14E-09	1.52E-08	2.73E-09	2.73E-09	1.50E-09	2.33E-08	6.17E-10	8.24E-09	1.21E-09	1.21E-09	6.01E-10	1.19E-08
1708	257392.18	4084725.19	7.6237E-09	1.02E-07	1.78E-08	1.78E-08	9.92E-09	1.55E-07	1.16E-09	1.55E-08	2.78E-09	2.78E-09	1.53E-09	2.38E-08	6.28E-10	8.39E-09	1.24E-09	1.24E-09	6.12E-10	1.21E-08
1709	257429.99	4084707.72	7.7495E-09	1.04E-07	1.81E-08	1.81E-08	1.01E-08	1.57E-07	1.18E-09	1.58E-08	2.82E-09	2.82E-09	1.55E-09	2.41E-08	6.39E-10	8.53E-09	1.26E-09	1.26E-09	6.22E-10	1.23E-08
1710	257467.8	4084690.25	7.8825E-09	1.05E-07	1.84E-08	1.84E-08	1.03E-08	1.60E-07	1.20E-09	1.60E-08	2.87E-09	2.87E-09	1.58E-09	2.46E-08	6.50E-10	8.68E-09	1.28E-09	1.28E-09	6.32E-10	1.25E-08
1711	257505.6	4084672.79	8.0629E-09	1.08E-07	1.88E-08	1.88E-08	1.05E-08	1.64E-07	1.22E-09	1.64E-08	2.94E-09	2.94E-09	1.61E-09	2.51E-08	6.65E-10	8.88E-09	1.31E-09	1.31E-09	6.47E-10	1.28E-08
1712	257256.76	4084988.46	1.606E-08	2.15E-07	3.75E-08	3.75E-08	2.09E-08	3.26E-07	2.44E-09	3.27E-08	5.85E-09	5.85E-09	3.22E-09	5.00E-08	1.32E-09	1.77E-08	2.60E-09	2.60E-09	1.29E-09	2.55E-08
1713	257258.41	4085033.02	1.9395E-08	2.59E-07	4.52E-08	4.52E-08	2.52E-08	3.94E-07	2.94E-09	3.95E-08	7.06E-09	7.06E-09	3.88E-09	6.04E-08	1.60E-09	2.14E-08	3.14E-09	3.14E-09	1.56E-09	3.08E-08
1714	257260.06	4085077.58	2.2899E-08	3.06E-07	5.34E-08	5.34E-08	2.98E-08	4.65E-07	3.48E-09	4.66E-08	8.34E-09	8.34E-09	4.59E-09	7.13E-08	1.89E-09	2.52E-08	3.71E-09	3.71E-09	1.84E-09	3.64E-08
1715	257261.71	4085122.15	2.6758E-08	3.57E-07	6.24E-08	6.24E-08	3.48E-08	5.44E-07	4.06E-09	5.45E-08	9.75E-09	9.75E-09	5.36E-09	8.34E-08	2.21E-09	2.95E-08	4.34E-09	4.34E-09	2.15E-09	4.25E-08
1716	257263.37	4085166.71	3.1076E-08	4.15E-07	7.25E-08	7.25E-08	4.04E-08	6.32E-07	4.72E-09	6.32E-08	1.13E-08	1.13E-08	6.22E-09	9.68E-08	2.56E-09	3.42E-08	5.04E-09	5.04E-09	2.49E-09	4.93E-08
1717	257163.58	4084949.42	1.033E-08	1.38E-07	2.41E-08	2.41E-08	1.34E-08	2.10E-07	1.57E-09	2.10E-08	3.76E-09	3.76E-09	2.07E-09	3.22E-08	8.51E-10	1.14E-08	1.67E-09	1.67E-09	8.29E-10	1.64E-08
1718	257178.73	4084908.51	9.0687E-09	1.21E-07	2.12E-08	2.12E-08	1.18E-08	1.84E-07	1.38E-09	1.85E-08	3.30E-09	3.30E-09	1.82E-09	2.83E-08	7.48E-10	9.98E-09	1.47E-09	1.47E-09	7.28E-10	1.44E-08

1719	257193.88	4084867.6	8.0282E-09	1.07E-07	1.87E-08	1.87E-08	1.04E-08	1.63E-07	1.22E-09	1.63E-08	2.92E-09	2.92E-09	1.61E-09	2.50E-08	6.62E-10	8.84E-09	1.30E-09	1.30E-09	6.44E-10	1.27E-08
1720	257209.03	4084826.68	7.2119E-09	9.63E-08	1.68E-08	1.68E-08	9.38E-09	1.47E-07	1.09E-09	1.47E-08	2.63E-09	2.63E-09	1.44E-09	2.25E-08	5.94E-10	7.94E-09	1.17E-09	1.17E-09	5.79E-10	1.15E-08
1721	257224.18	4084785.77	6.545E-09	8.74E-08	1.53E-08	1.53E-08	8.51E-09	1.33E-07	9.93E-10	1.33E-08	2.38E-09	2.38E-09	1.31E-09	2.04E-08	5.39E-10	7.21E-09	1.06E-09	1.06E-09	5.25E-10	1.04E-08
1722	257239.33	4084744.86	5.9802E-09	7.99E-08	1.40E-08	1.40E-08	7.78E-09	1.22E-07	9.08E-10	1.22E-08	2.18E-09	2.18E-09	1.20E-09	1.86E-08	4.93E-10	6.58E-09	9.69E-10	9.69E-10	4.80E-10	9.50E-09
1723	257254.48	4084703.95	5.4663E-09	7.30E-08	1.28E-08	1.28E-08	7.11E-09	1.11E-07	8.30E-10	1.11E-08	1.99E-09	1.99E-09	1.09E-09	1.70E-08	4.51E-10	6.02E-09	8.86E-10	8.86E-10	4.39E-10	8.68E-09
1724	257281.86	4084674.34	5.2568E-09	7.02E-08	1.23E-08	1.23E-08	6.84E-09	1.07E-07	7.98E-10	1.07E-08	1.91E-09	1.91E-09	1.05E-09	1.64E-08	4.33E-10	5.79E-09	8.52E-10	8.52E-10	4.22E-10	8.35E-09
1725	257321.47	4084656.04	5.3279E-09	7.12E-08	1.24E-08	1.24E-08	6.93E-09	1.08E-07	8.09E-10	1.08E-08	1.94E-09	1.94E-09	1.07E-09	1.66E-08	4.39E-10	5.87E-09	8.64E-10	8.64E-10	4.27E-10	8.46E-09
1726	257361.07	4084637.75	5.3989E-09	7.21E-08	1.26E-08	1.26E-08	7.02E-09	1.10E-07	8.19E-10	1.10E-08	1.97E-09	1.97E-09	1.08E-09	1.68E-08	4.45E-10	5.94E-09	8.75E-10	8.75E-10	4.33E-10	8.57E-09
1727	257400.68	4084619.45	5.4663E-09	7.30E-08	1.28E-08	1.28E-08	7.11E-09	1.11E-07	8.30E-10	1.11E-08	1.99E-09	1.99E-09	1.09E-09	1.70E-08	4.51E-10	6.02E-09	8.86E-10	8.86E-10	4.39E-10	8.68E-09
1728	257440.28	4084601.15	5.5392E-09	7.40E-08	1.29E-08	1.29E-08	7.20E-09	1.13E-07	8.41E-10	1.13E-08	2.02E-09	2.02E-09	1.11E-09	1.73E-08	4.57E-10	6.10E-09	8.98E-10	8.98E-10	4.44E-10	8.80E-09
1729	257479.89	4084582.85	5.6413E-09	7.54E-08	1.32E-08	1.32E-08	7.34E-09	1.15E-07	8.56E-10	1.15E-08	2.05E-09	2.05E-09	1.13E-09	1.76E-08	4.65E-10	6.21E-09	9.14E-10	9.14E-10	4.53E-10	8.96E-09
1730	257156.83	4084992.16	1.1971E-08	1.60E-07	2.79E-08	2.79E-08	1.56E-08	2.43E-07	1.82E-09	2.44E-08	4.36E-09	4.36E-09	2.40E-09	3.73E-08	9.87E-10	1.32E-08	1.94E-09	1.94E-09	9.60E-10	1.90E-08
1731	257158.48	4085036.72	1.3912E-08	1.86E-07	3.25E-08	3.25E-08	1.81E-08	2.83E-07	2.11E-09	2.83E-08	5.07E-09	5.07E-09	2.79E-09	4.33E-08	1.15E-09	1.53E-08	2.25E-09	2.25E-09	1.12E-09	2.21E-08
1732	257160.13	4085081.29	1.5739E-08	2.10E-07	3.67E-08	3.67E-08	2.05E-08	3.20E-07	2.39E-09	3.20E-08	5.73E-09	5.73E-09	3.15E-09	4.90E-08	1.30E-09	1.73E-08	2.55E-09	2.55E-09	1.26E-09	2.50E-08
1733	257161.78	4085125.85	1.7494E-08	2.34E-07	4.08E-08	4.08E-08	2.28E-08	3.56E-07	2.66E-09	3.56E-08	6.37E-09	6.37E-09	3.50E-09	5.45E-08	1.44E-09	1.93E-08	2.84E-09	2.84E-09	1.40E-09	2.78E-08
1734	257162.61	4085148.13	1.8425E-08	2.46E-07	4.30E-08	4.30E-08	2.40E-08	3.74E-07	2.80E-09	3.75E-08	6.71E-09	6.71E-09	3.69E-09	5.74E-08	1.52E-09	2.03E-08	2.99E-09	2.99E-09	1.48E-09	2.93E-08
1735	257063.44	4084953.69	8.3817E-09	1.12E-07	1.96E-08	1.96E-08	1.09E-08	1.70E-07	1.27E-09	1.71E-08	3.05E-09	3.05E-09	1.68E-09	2.61E-08	6.91E-10	9.23E-09	1.36E-09	1.36E-09	6.72E-10	1.33E-08
1736	257078.17	4084913.92	7.4925E-09	1.00E-07	1.75E-08	1.75E-08	9.75E-09	1.52E-07	1.14E-09	1.52E-08	2.73E-09	2.73E-09	1.50E-09	2.33E-08	6.18E-10	8.25E-09	1.21E-09	1.21E-09	6.01E-10	1.19E-08
1737	257092.9	4084874.14	6.7181E-09	8.97E-08	1.57E-08	1.57E-08	8.74E-09	1.37E-07	1.02E-09	1.37E-08	2.45E-09	2.45E-09	1.35E-09	2.09E-08	5.54E-10	7.40E-09	1.09E-09	1.09E-09	5.39E-10	1.07E-08
1738	257107.63	4084834.36	6.0768E-09	8.12E-08	1.42E-08	1.42E-08	7.90E-09	1.24E-07	9.22E-10	1.24E-08	2.21E-09	2.21E-09	1.22E-09	1.89E-08	5.01E-10	6.69E-09	9.85E-10	9.85E-10	4.87E-10	9.65E-09
1739	257122.36	4084794.59	5.5538E-09	7.42E-08	1.30E-08	1.30E-08	7.22E-09	1.13E-07	8.43E-10	1.13E-08	2.02E-09	2.02E-09	1.11E-09	1.73E-08	4.58E-10	6.12E-09	9.00E-10	9.00E-10	4.46E-10	8.82E-09
1740	257137.09	4084754.81	5.1129E-09	6.83E-08	1.19E-08	1.19E-08	6.65E-09	1.04E-07	7.76E-10	1.04E-08	1.86E-09	1.86E-09	1.02E-09	1.59E-08	4.21E-10	5.63E-09	8.29E-10	8.29E-10	4.10E-10	8.12E-09
1741	257151.82	4084715.03	4.7375E-09	6.33E-08	1.11E-08	1.11E-08	6.16E-09	9.63E-08	7.19E-10	9.64E-09	1.73E-09	1.73E-09	9.49E-10	1.48E-08	3.91E-10	5.22E-09	7.68E-10	7.68E-10	3.80E-10	7.52E-09
1742	257166.55	4084675.26	4.4004E-09	5.88E-08	1.03E-08	1.03E-08	5.72E-09	8.94E-08	6.68E-10	8.95E-09	1.60E-09	1.60E-09	8.81E-10	1.37E-08	3.63E-10	4.85E-09	7.13E-10	7.13E-10	3.53E-10	6.99E-09
1743	257181.27	4084635.48	4.0797E-09	5.45E-08	9.52E-09	9.52E-09	5.31E-09	8.29E-08	6.19E-10	8.30E-09	1.49E-09	1.49E-09	8.17E-10	1.27E-08	3.36E-10	4.49E-09	6.61E-10	6.61E-10	3.27E-10	6.48E-09
1744	257207.89	4084606.7	3.9449E-09	5.27E-08	9.20E-09	9.20E-09	5.13E-09	8.02E-08	5.99E-10	8.03E-09	1.44E-09	1.44E-09	7.90E-10	1.23E-08	3.25E-10	4.34E-09	6.39E-10	6.39E-10	3.16E-10	6.26E-09
1745	257246.4	4084588.91	3.985E-09	5.32E-08	9.30E-09	9.30E-09	5.18E-09	8.10E-08	6.05E-10	8.11E-09	1.45E-09	1.45E-09	7.98E-10	1.24E-08	3.28E-10	4.39E-09	6.46E-10	6.46E-10	3.20E-10	6.33E-09
1746	257284.9	4084571.12	4.036E-09	5.39E-08	9.42E-09	9.42E-09	5.25E-09	8.20E-08	6.13E-10	8.21E-09	1.47E-09	1.47E-09	8.08E-10	1.26E-08	3.33E-10	4.44E-09	6.54E-10	6.54E-10	3.24E-10	6.41E-09
1747	257323.41	4084553.33	4.0925E-09	5.47E-08	9.55E-09	9.55E-09	5.32E-09	8.32E-08	6.21E-10	8.33E-09	1.49E-09	1.49E-09	8.20E-10	1.28E-08	3.37E-10	4.51E-09	6.63E-10	6.63E-10	3.28E-10	6.50E-09
1748	257361.92	4084535.54	4.1435E-09	5.53E-08	9.67E-09	9.67E-09	5.39E-09	8.42E-08	6.29E-10	8.43E-09	1.51E-09	1.51E-09	8.30E-10	1.29E-08	3.42E-10	4.56E-09	6.72E-10	6.72E-10	3.32E-10	6.58E-09
1749	257400.42	4084517.75	4.189E-09	5.60E-08	9.77E-09	9.77E-09	5.45E-09	8.51E-08	6.36E-10	8.52E-09	1.53E-09	1.53E-09	8.39E-10	1.31E-08	3.45E-10	4.61E-09	6.79E-10	6.79E-10	3.36E-10	6.65E-09
1750	257438.93	4084499.96	4.2364E-09	5.66E-08	9.88E-09	9.88E-09	5.51E-09	8.61E-08	6.43E-10	8.62E-09	1.54E-09	1.54E-09	8.48E-10	1.32E-08	3.49E-10	4.66E-09	6.87E-10	6.87E-10	3.40E-10	6.73E-09
1751	257477.43	4084482.18	4.2929E-09	5.73E-08	1.00E-08	1.00E-08	5.58E-09	8.73E-08	6.52E-10	8.74E-09	1.56E-09	1.56E-09	8.60E-10	1.34E-08	3.54E-10	4.73E-09	6.96E-10	6.96E-10	3.44E-10	6.82E-09
1752	257056.9	4084995.86	9.5005E-09	1.27E-07	2.22E-08	2.22E-08	1.24E-08	1.93E-07	1.44E-09	1.93E-08	3.46E-09	3.46E-09	1.90E-09	2.96E-08	7.83E-10	1.05E-08	1.54E-09	1.54E-09	7.62E-10	1.51E-08
1753	257057.72	4085018.15	1.0153E-08	1.36E-07	2.37E-08	2.37E-08	1.32E-08	2.06E-07	1.54E-09	2.07E-08	3.70E-09	3.70E-09	2.03E-09	3.16E-08	8.37E-10	1.12E-08	1.65E-09	1.65E-09	8.15E-10	1.61E-08
1754	257059.38	4085062.71	1.1346E-08	1.52E-07	2.65E-08	2.65E-08	1.48E-08	2.31E-07	1.72E-09	2.31E-08	4.13E-09	4.13E-09	2.27E-09	3.53E-08	9.35E-10	1.25E-08	1.84E-09	1.84E-09	9.10E-10	1.80E-08
1755	257061.03	4085107.27	1.2361E-08	1.65E-07	2.88E-08	2.88E-08	1.61E-08	2.51E-07	1.88E-09	2.52E-08	4.50E-09	4.50E-09	2.48E-09	3.85E-08	1.02E-09	1.36E-08	2.00E-09	2.00E-09	9.92E-10	1.96E-08
1756	257062.68	4085151.83	1.3278E-08	1.77E-07	3.10E-08	3.10E-08	1.73E-08	2.70E-07	2.02E-09	2.70E-08	4.84E-09	4.84E-09	2.66E-09	4.14E-08	1.09E-09	1.46E-08	2.15E-09	2.15E-09	1.07E-09	2.11E-08
1757	256963.72	4084956.83	7.0297E-09	9.39E-08	1.64E-08	1.64E-08	9.14E-09	1.43E-07	1.07E-09	1.43E-08	2.56E-09	2.56E-09	1.41E-09	2.19E-08	5.79E-10	7.74E-09	1.14E-09	1.14E-09	5.64E-10	1.12E-08
1758	256978.87	4084915.92	6.33E-09	8.46E-08	1.48E-08	1.48E-08	8.23E-09	1.29E-07	9.61E-10	1.29E-08	2.31E-09	2.31E-09	1.27E-09	1.97E-08	5.22E-10	6.97E-09	1.03E-09	1.03E-09	5.08E-10	1.01E-08
1759	256994.02	4084875	5.7105E-09	7.63E-08	1.33E-08	1.33E-08	7.43E-09	1.16E-07	8.67E-10	1.16E-08	2.08E-09	2.08E-09	1.14E-09	1.78E-08	4.71E-10	6.29E-09	9.26E-10	9.26E-10	4.58E-10	9.07E-09
1760	257009.17	4084834.09	5.2021E-09	6.95E-08	1.21E-08	1.21E-08	6.77E-09	1.06E-07	7.90E-10	1.06E-08	1.90E-09	1.90E-09	1.04E-09	1.62E-08	4.29E-10	5.73E-09	8.43E-10	8.43E-10	4.17E-10	8.26E-09
1761	257024.32	4084793.18	4.7703E-09	6.37E-08	1.11E-08	1.11E-08	6.20E-09	9.70E-08	7.24E-10	9.71E-09	1.74E-09	1.74E-09	9.55E-10	1.49E-08	3.93E-10	5.25E-09	7.73E-10	7.73E-10	3.83E-10	7.57E-09
1762	257039.47	4084752.26	4.3913E-09	5.87E-08	1.02E-08	1.02E-08	5.71E-09	8.93E-08	6.66E-10	8.94E-09	1.60E-09	1.60E-09	8.79E-10	1.37E-08	3.62E-10	4.84E-09	7.12E-10	7.12E-10	3.52E-10	6.97E-09
1763	257054.62	4084711.35	4.067E-09	5.43E-08	9.49E-09	9.49E-09	5.29E-09	8.27E-08	6.17E-10	8.28E-09	1.48E-09	1.48E-09	8.14E-10	1.27E-08	3.35E-10	4.48E-09	6.59E-10	6.59E-10	3.26E-10	6.46E-09
1764	257069.77	4084670.44	3.79E-09	5.06E-08	8.84E-09	8.84E-09	4.93E-09	7.70E-08	5.75E-10	7.71E-09	1.38E-09	1.38E-09	7.59E-10	1.18E-08	3.12E-10	4.17E-09	6.14E-10	6.14E-10	3.04E-10	6.02E-09
1765	257084.92	4084629.52	3.5458E-09	4.74E-08	8.27E-09	8.27E-09	4.61E-09	7.21E-08	5.38E-10	7.22E-09	1.29E-09	1.29E-09	7.10E-10	1.10E-08	2.92E-10	3.90E-09	5.75E-10	5.75E-10	2.84E-10	5.63E-09
1766	257100.07	4084588.61	3.3162E-09	4.43E-08	7.74E-09	7.74E-09	4.31E-09	6.74E-08	5.03E-10	6.75E-09	1.21E-09	1.21E-09	6.64E-10	1.03E-08	2.73E-10	3.65E-09	5.37E-10	5.37E-10	2.66E-10	5.27E-09
1767	257135.02	4084538.55	3.1122E-09	4.16E-08	7.26E-09	7.26E-09	4.05E-09	6.33E-08	4.72E-10	6.33E-09	1.13E-09	1.13E-09	6.23E-10	9.70E-09	2.57E-10	3.43E-09	5.04E-10	5.04E-10	2.50E-10	4.94E-09
1768	257174.63	4084520.25	3.1431E-09	4.20E-08	7.33E-09	7.33E-09	4.09E-09	6.39E-08	4.77E-10	6.40E-09	1.14E-09	1.14E-09	6.29E-10	9.79E-09	2.59E-10	3.46E-09	5.09E-10	5.09E-10	2.52E-10	4.99E-09
1769	257214.24	4084501.95	3.1887E-09	4.26E-08	7.44E-09	7.44E-09	4.15E-09	6.48E-08	4.84E-10	6.49E-09	1.16E-09	1.16E-09	6.39E-10	9.93E-09	2.63E-10	3.51E-09	5.17E-10	5.17E-10	2.56E-10	5.06E-09
1770	257253.84	4084483.66	3.2415E-09	4.33E-08	7.56E-09	7.56E-09	4.22E-09	6.59E-08	4.92E-10	6.60E-09	1.18E-09	1.18E-09	6.49E-10	1.01E-08	2.67E-10	3.57E-09	5.25E-10	5.25E-10	2.60E-10	5.15E-09
1771	257293.45	4084465.36	3.2907E-09	4.40E-08	7.68E-09	7.68E-09	4.28E-09	6.69E-08	4.99E-10	6.70E-09	1.20E-09	1.20E-09	6.59E-10	1.03E-08	2.71E-10	3.62E-09	5.33E-10	5.33E-10	2.64E-10	5.23E-09
1772	257333.05	4084447.06	3.3272E-09	4.44E-08	7.76E-09	7.76E-09	4.33E-09	6.76E-08	5.05E-10	6.77E-09	1.21E-09	1.21E-09	6.66E-10	1.04E-08	2.74E-10	3.66E-09	5.39E-10	5.39E-10	2.67E-10	5.28E-09
1773	257372.66	4084428.77	3.3472E-09	4.47E-08	7.81E-09	7.81E-09	4.35E-09	6.80E-08	5.08E-10	6.81E-09	1.22E-09	1.22E-09	6.70E-10	1.04E-08	2.76E-10	3.69E-09	5.42E-10	5.42E-10	2.69E-10	5.31E-09
1774	257412.27	4084410.47	3.3563E-09	4.48E-08	7.83E-09	7.83E-09	4.37E-09	6.82E-08	5.09E-10	6.83E-09	1.22E-09	1.22E-09	6.72E-10	1.05E-08	2.77E-10	3.70E-09	5.44E-10	5.44E-10	2.69E-10	5.33E-09
1775	257451.87	4084392.17	3.3654E-09	4.50E-08	7.85E-09	7.85E-09	4.38E-09	6.84E-08	5.11E-10	6.85E-09	1.23E-09	1.23E-09	6.74E-10	1.05E-08	2.77E-10	3.71E-09	5.45E-10	5.45E-10	2.70E-10	5.34E-09
1776	257491.48	4084373.87	3.3782E-09	4.51E-08	7.88E-09	7.88E-09	4.39E-09	6.87E-08	5.13E-10	6.87E-09	1.23E-09	1.23E-09	6.77E-10	1.05E-08	2.78E-10	3.72E-09	5.48E-10	5.48E-10	2.71E-10	5.36E-09
1777	256956.97	4084999.57	7.8661E-09	1.05E-07	1.84E-08	1.84E-08	1.02E-08	1.60E-07	1.19E-09	1.60E-08	2.87E-09	2.87E-09	1.58E-09	2.45E-08	6.48E-10	8.66E-09	1.27E-09	1.27E-09	6.31E-10	1.25E-08
1778	256958.62	4085044.13	8.7589E-09	1.17E-07	2.04E-08	2.04E-08	1.14E-08	1.78E-07	1.33E-09	1.78E-08	3.19E-09	3.19E-09	1.75E-09	2.73E-08	7.22E-10	9.64E-09	1.42E-09	1.42E-09	7.03E-10	1.39E-08
1779	256960.27	4085088.69	9.4878E-09	1.27E-07	2.21E-08	2.21E-08	1.23E-08	1.93E-07	1.44E-09	1.93E-08	3.46E-09	3.46E-09	1.90E-09	2.96E-08	7.82E-10	1.04E-08	1.54E-09	1.54E-09	7.61E-10	1.51E-08
1780	256961.92	4085133.25	1.006E-08	1.34E-07	2.35E-08	2.35E-08	1.31E-08	2.04E-07	1.53E-09	2.05E-08	3.66E-09	3.66E-09	2.01E-09	3.13E-08	8.29E-10	1.11E-08	1.63E-09	1.63E-09	8.07E-10	1.60E-08
1781	256963.57	4085177.82	1.0592E-08	1.41E-07	2.47E-08	2.47E-08	1.38E-08	2.15E-07	1.61E-09	2.16E-08	3.86E-09	3.86E-09	2.12E-09	3.30E-08	8.73E-10	1.17E-08	1.72E-09	1.72E-09	8.50E-10	1.68E-08
1782	256863.94	4084960.11	6.0567E-09	8.09E-08	1.41E-08	1.41E-08	7.88E-09	1.23E-07	9.19E-10	1.23E-08	2.21E-09	2.21E-09	1.21E-09	1.89E-08	4.99E-10	6.67E-09	9.82E-10	9.82E-10	4.86E-10	9.62E-09
1783	256879.41	4084918.34	5.4827E-09	7.32E-08	1.28E-08	1.28E-08	7.13E-09	1.11E-07	8.32E-10	1.12E-08	2.00E-09	2.00E-09	1.10E-09	1.71E-08	4.52E-10	6.04E-09	8.89E-10	8.89E-10	4.40E-10	8.71E-09
1784	256894.88	4084876.57	4.9762E-09	6.65E-08	1.16E-08	1.16E-08	6.47E-09	1.01E-07	7.55E-10	1.01E-08	1.81E-09	1.81E-09	9.97E-10	1.55E-08	4.10E-10	5.48E-09	8.07E-10	8.07E-10	3.99E-10	7.90E-09
1785	256910.34	4084834.81	4.5608E-09	6.09E-08	1.06E-08	1.06E-08	5.93E-09	9.27E-08	6.92E-10	9.28E-09	1.66E-09	1.66E-09	9.13E-10	1.42E-08	3.76E-10	5.02E-09	7.39E-10	7.39E-10	3.66E-10	7.24E-09
1786	256925.81	4084793.04	4.2109E-09	5.62E-08	9.82E-09	9.82E-09	5.48E-09	8.56E-08	6.39E-10	8.57E-09	1.53E-09	1.53E-09	8.43E-10	1.31E-08	3.47E-10	4.64E-09	6.82E-10	6.82E-10	3.38E-10	6.69E-09
1787	256941.27	4084751.28	3.892E-09	5.20E-08	9.08E-09	9.08E-09	5.06E-09	7.91E-08	5.91E-10	7.92E-09	1.42E-09	1.42E-09	7.79E-10	1.21E-08	3.21E-10	4.29E-09	6.31E-10	6.31E-10	3.12E-10	6.18E-09
1788	256956.74	4084709.51	3.5987E-09	4.81E-08	8.40E-09	8.40E-09	4.68E-09	7.31E-08	5.46E-10	7.32E-09	1.31E-09	1.31E-09	7.21E-10	1.12E-08	2.97E-10	3.96E-09	5.83E-10	5.83E-10	2.89E-10	5.71E-09
1789	256972.21	4084667.75	3.3399E-09	4.46E-08	7.79E-09	7.79E-09	4.34E-09	6.79E-08	5.07E-10	6.80E-09	1.22E-09	1.22E-09	6.69E-10	1.04E-08	2.75E-10	3.68E-09	5.41E-10	5.41E-10	2.68E-10	5.30E-09
1790	256987.67	4084625.98	3.1249E-09	4.17E-08	7.29E-09	7.29E-09	4.06E-09	6.35E-08	4.74E-10	6.36E-09	1.14E-09	1.14E-09	6.26E-10	9.74E-09	2.58E-10	3.44E-09	5.06E-10	5.06E-10	2.51E-10	4.96E-09
1791	257003.14	4084584.22	2.9409E-09	3.93E-08	6.86E-09	6.86E-09	3.83E-09	5.98E-08	4.46E-10	5.98E-09	1.07E-09	1.07E-09	5.89E-10	9.16E-09	2.42E-10	3.24E-09	4.77E-10	4.77E-10	2.36E-10	4.67E-09
1792	257018.6	4084542.45	2.7733E-09	3.70E-08	6.47E-09	6.47E-09	3.61E-09	5.64E-08	4.21E-10	5.64E-09	1.01E-09	1.01E-09	5.55E-10	8.64E-09	2.29E-10	3.05E-09	4.49E-10	4.49E-10	2.22E-10	4.40E-09
1793	257034.07	4084500.69	2.6166E-09	3.50E-08	6.10E-09	6.10E-09	3.40E-09	5.32E-08	3.97E-10	5.32E-09	9.53E-10	9.53E-10	5.24E-10	8.15E-09	2.16E-10	2.88E-09	4.24E-10	4.24E-10	2.10E-10	4.15E-09
1794	257062.02	4084470.46	2.551E-09	3.41E-08	5.95E-09	5.95E-09	3.32E-09	5.18E-08	3.87E-10	5.19E-09	9.29E-10	9.29E-10	5.11E-10	7.95E-09	2.10E-10	2.81E-09	4.13E-10	4.13E-10	2.05E-10	4.05E-09
1795	257102.45	4084451.78	2.5783E-09	3.44E-08	6.02E-09	6.02E-09	3.35E-09	5.24E-08	3.91E-10	5.25E-09	9.39E-10	9.39E-10	5.16E-10	8.03E-09	2.13E-10	2.84E-09	4.18E-10	4.18E-10	2.07E-10	4.09E-09
1796	257142.88	4084433.11	2.6202E-09	3.50E-08	6.11E-09	6.11E-09	3.41E-09	5.33E-08	3.98E-10	5.33E-09	9.54E-10	9.54E-10	5.25E-10	8.16E-09	2.16E-10	2.88E-09	4.25E-10	4.25E-10	2.10E-10	4.16E-09
1797	257183.31	4084414.43	2.673E-09	3.57E-08	6.24E-09	6.24E-09	3.48E-09	5.43E-08	4.06E-10	5.44E-09	9.74E-10	9.74E-10	5.35E-10	8.33E-09	2.20E-10	2.94E-09	4.33E-10	4.33E-10	2.14E-10	4.24E-09
1798	257223.74	4084395.75	2.7186E-09	3.63E-08	6.34E-09	6.34E-09	3.54E-09	5.53E-08	4.13E-10	5.53E-09	9.90E-10	9.90E-10	5.44E-10	8.47E-09	2.24E-10	2.99E-09	4.41E-10	4.41E-10	2.18E-10	4.32E-09
1799	257264.17	4084377.07	2.7496E-09	3.67E-08	6.41E-09	6.41E-09	3.58E-09	5.59E-08	4.17E-10	5.60E-09	1.00E-09	1.00E-09	5.51E-10	8.57E-09	2.27E-10	3.03E-09	4.46E-10	4.46E-10	2.21E-10	4.37E-09
1800	257304.61	4084358.39	2.7605E-09	3.69E-08	6.44E-09	6.44E-09	3.59E-09	5.61E-08	4.19E-10	5.62E-09	1.01E-09	1.01E-09	5.53E-10	8.60E-09	2.28E-10	3.04E-09	4.47E-10	4.47E-10	2.21E-10	4.38E-09
1801	257345.04	4084339.71	2.7514E-09	3.68E-08	6.42E-09	6.42E-09	3.58E-09	5.59E-08	4.18E-10	5.60E-09	1.00E-09	1.00E-09	5.51E-10	8.57E-09	2.27E-10	3.03E-09	4.46E-10	4.46E-10	2.21E-10	4.37E-09
1802	257385.47	4084321.04	2.7314E-09	3.65E-08	6.37E-09	6.37E-09	3.55E-09	5.55E-08	4.15E-10	5.56E-09	9.95E-10	9.95E-10	5.47E-10	8.51E-09	2.25E-10	3.01E-09	4.43E-10	4.43E-10	2.19E-10	4.34E-09
1803	257425.9	4084302.36	2.7113E-09	3.62E-08	6.33E-09	6.33E-09	3.53E-09	5.51E-08	4.11E-10	5.52E-09	9.88E-10	9.88E-10	5.43E-10	8.45E-09	2.23E-10	2.99E-09	4.39E-10	4.39E-10	2.18E-10	4.31E-09
1804	257466.33	4084283.68	2.7058E-09	3.61E-08	6.31E-09	6.31E-09	3.52E-09	5.50E-08	4.11E-10	5.51E-09	9.86E-10	9.86E-10	5.42E-10	8.43E-09	2.23E-10	2.98E-09	4.39E-10	4.39E-10	2.17E-10	4.30E-09
1805	256857.04	4085003.27	6.7109E-09	8.96E-08	1.57E-08	1.57E-08	8.73E-09	1.36E-07	1.02E-09	1.37E-08	2.44E-09	2.44E-09	1.34E-09	2.09E-08	5.53E-10	7.39E-09	1.09E-09	1.09E-09	5.38E-10	1.07E-08
1806	256858.69	4085047.83	7.3686E-09	9.84E-08	1.72E-08	1.72E-08	9.58E-09	1.50E-07	1.12E-09	1.50E-08	2.68E-09	2.68E-09	1.48E-09	2.30E-08	6.07E-10	8.11E-09	1.19E-09	1.19E-09	5.91E-10	1.17E-08
1807	256860.34	4085092.39	7.8788E-09	1.05E-07	1.84E-08	1.84E-08	1.02E-08	1.60E-07	1.20E-09	1.60E-08	2.87E-09	2.87E-09	1.58E-09	2.45E-08	6.49E-10	8.67E-09	1.28E-09	1.28E-09	6.32E-10	1.25E-08
1808	256861.99	4085136.96	8.2542E-09	1.10E-07	1.93E-08	1.93E-08	1.07E-08	1.68E-07	1.25E-09	1.68E-08	3.01E-09	3.01E-09	1.65E-09	2.57E-08	6.80E-10	9.09E-09	1.34E-09	1.34E-09	6.62E-10	1.31E-08
1809	256863.64	4085181.52	8.584E-09	1.15E-07	2.00E-08	2.00E-08	1.12E-08	1.74E-07	1.30E-09	1.75E-08	3.13E-09	3.13E-09	1.72E-09	2.67E-08	7.08E-10	9.45E-09	1.39E-09	1.39E-09	6.89E-10	1.36E-08
1810	256664.04	4084967.61	4.7776E-09	6.38E-08	1.11E-08	1.11E-08	6.21E-09	9.71E-08	7.25E-10	9.72E-09	1.74E-09	1.74E-09	9.57E-10	1.49E-08	3.94E-10	5.26E-09	7.74E-10	7.74E-10	3.83E-10	7.59E-09
1811	256679.44	4084926.03	4.3785E-09	5.85E-08	1.02E-08	1.02E-08	5.70E-09	8.90E-08	6.65E-10	8.91E-09	1.59E-09	1.59E-09	8.77E-10	1.36E-08	3.61E-10	4.82E-09	7.10E-10	7.10E-10	3.51E-10	6.95E-09
1812	256694.83	4084884.46	4.0105E-09	5.36E-08	9.36E-09	9.36E-09	5.22E-09	8.15E-08	6.09E-10	8.16E-09	1.46E-09	1.46E-09	8.03E-10	1.25E-08	3.31E-10	4.42E-09	6.50E-10	6.50E-10	3.22E-10	6.37E-09
1813	256710.23	4084842.89	3.7062E-09	4.95E-08	8.65E-09	8.65E-09	4.82E-09	7.53E-08	5.62E-10	7.54E-09	1.35E-09	1.35E-09	7.42E-10	1.15E-08	3.05E-10	4.08E-09	6.01E-10	6.01E-10	2.97E-10	5.88E-09
1814	256725.62	4084801.32	3.462E-09	4.62E-08	8.08E-09	8.08E-09	4.50E-09	7.04E-08	5.25E-10	7.04E-09	1.26E-09	1.26E-09	6.93E-10	1.08E-08	2.85E-10	3.81E-09	5.61E-10	5.61E-10	2.78E-10	5.50E-09
1815	256741.02	4084759.74	3.2561E-09	4.35E-08	7.60E-09	7.60E-09	4.24E-09	6.62E-08	4.94E-10	6.63E-09	1.19E-09	1.19E-09	6.52E-10	1.01E-08	2.68E-10	3.59E-09	5.28E-10	5.28E-10	2.61E-10	5.17E-09
1816	256756.41	4084718.17	3.0593E-09	4.09E-08	7.14E-09	7.14E-09	3.98E-09	6.22E-08	4.64E-10	6.23E-09	1.11E-09	1.11E-09	6.13E-10	9.53E-09	2.52E-10	3.37E-09	4.96E-10	4.96E-10	2.45E-10	4.86E-09
1817	256771.81	4084676.6	2.8571E-09	3.82E-08	6.67E-09	6.67E-09	3.72E-09	5.81E-08	4.34E-10	5.81E-09	1.04E-09	1.04E-09	5.72E-10	8.90E-09	2.36E-10	3.15E-09	4.63E-10	4.63E-10	2.29E-10	4.54E-09
1818	256787.2	4084635.02	2.6548E-09	3.55E-08	6.19E-09	6.19E-09	3.45E-09	5.40E-08	4.03E-10	5.40E-09	9.67E-10	9.67E-10	5.32E-10	8.27E-09	2.19E-10	2.92E-09	4.30E-10	4.30E-10	2.13E-10	4.22E-09
1819	256802.6	4084593.45	2.4671E-09	3.30E-08	5.76E-09	5.76E-09	3.21E-09	5.01E-08	3.74E-10	5.02E-09	8.99E-10	8.99E-10	4.94E-10	7.69E-09	2.03E-10	2.72E-09	4.00E-10	4.00E-10	1.98E-10	3.92E-09
1820	256817.99	4084551.88	2.3123E-09	3.09E-08	5.39E-09	5.39E-09	3.01E-09	4.70E-08	3.51E-10	4.71E-09	8.42E-10	8.42E-10	4.63E-10	7.20E-09	1.91E-10	2.55E-09	3.75E-10	3.75E-10	1.85E-10	3.67E-09
1821	256833.39	4084510.3	2.1902E-09	2.93E-08	5.11E-09	5.11E-09	2.85E-09	4.45E-08	3.32E-10	4.46E-09	7.98E-10	7.98E-10	4.39E-10	6.82E-09	1.81E-10	2.41E-09	3.55E-10	3.55E-10	1.76E-10	3.48E-09
1822	256848.78	4084468.73	2.0936E-09	2.80E-08	4.88E-09	4.88E-09	2.72E-09	4.26E-08	3.18E-10	4.26E-09	7.63E-10	7.63E-10	4.19E-10	6.52E-09	1.73E-10	2.31E-09	3.39E-10	3.39E-10	1.68E-10	3.32E-09
1823	256864.18	4084427.16	2.0098E-09	2.68E-08	4.69E-09	4.69E-09	2.61E-09	4.08E-08	3.05E-10	4.09E-09	7.32E-10	7.32E-10	4.02E-10	6.26E-09	1.66E-10	2.21E-09	3.26E-10	3.26E-10	1.61E-10	3.19E-09
1824	256879.57	4084385.58	1.9333E-09	2.58E-08	4.51E-09	4.51E-09	2.51E-09	3.93E-08	2.93E-10	3.93E-09	7.04E-10	7.04E-10	3.87E-10	6.02E-09	1.59E-10	2.13E-09	3.13E-10	3.13E-10	1.55E-10	3.07E-09
1825	256915.09	4084334.72	1.8731E-09	2.50E-08	4.37E-09	4.37E-09	2.44E-09	3.81E-08	2.84E-10	3.81E-09	6.82E-10	6.82E-10	3.75E-10	5.84E-09	1.54E-10	2.06E-09	3.04E-10	3.04E-10	1.50E-10	2.97E-09
1826	256955.33	4084316.12	1.8968E-09	2.53E-08	4.43E-09	4.43E-09	2.47E-09	3.86E-08	2.88E-10	3.86E-09	6.91E-10	6.91E-10	3.80E-10	5.91E-09	1.56E-10	2.09E-09	3.07E-10	3.07E-10	1.52E-10	3.01E-09
1827	256995.58	4084297.53	1.9278E-09	2.58E-08	4.50E-09	4.50E-09	2.51E-09	3.92E-08	2.93E-10	3.92E-09	7.02E-10	7.02E-10	3.86E-10	6.01E-09	1.59E-10	2.12E-09	3.12E-10	3.12E-10	1.55E-10	3.06E-09
1828	257035.82	4084278.94	1.9642E-09	2.62E-08	4.58E-09	4.58E-09	2.55E-09	3.99E-08	2.98E-10	4.00E-09	7.16E-10	7.16E-10	3.93E-10	6.12E-09	1.62E-10	2.16E-09	3.18E-10	3.18E-10	1.58E-10	3.12E-09
1829	257076.07	4084260.35	2.0007E-09	2.67E-08	4.67E-09	4.67E-09	2.60E-09	4.07E-08	3.04E-10	4.07E-09	7.29E-10	7.29E-10	4.01E-10	6.23E-09	1.65E-10	2.20E-09	3.24E-10	3.24E-10	1.61E-10	3.18E-09
1830	257116.31	4084241.75	2.0244E-09	2.70E-08	4.72E-09	4.72E-09	2.63E-09	4.11E-08	3.07E-10	4.12E-09	7.37E-10	7.37E-10	4.05E-10	6.31E-09	1.67E-10	2.23E-09	3.28E-10	3.28E-10	1.62E-10	3.21E-09
1831	257156.56	4084223.16	2.0317E-09	2.71E-08	4.74E-09	4.74E-09	2.64E-09	4.13E-08	3.08E-10	4.13E-09	7.40E-10	7.40E-10	4.07E-10	6.33E-09	1.67E-10	2.24E-09	3.29E-10	3.29E-10	1.63E-10	3.23E-09
1832	257196.8	4084204.57	2.0225E-09	2.70E-08	4.72E-09	4.72E-09	2.63E-09	4.11E-08	3.07E-10	4.12E-09	7.37E-10	7.37E-10	4.05E-10	6.30E-09	1.67E-10	2.23E-09	3.28E-10	3.28E-10	1.62E-10	3.21E-09
1833	257237.05	4084185.98	1.997E-09	2.67E-08	4.66E-09	4.66E-09	2.60E-09	4.06E-08	3.03E-10	4.06E-09	7.27E-10	7.27E-10	4.00E-10	6.22E-09	1.65E-10	2.20E-09	3.24E-10	3.24E-10	1.60E-10	3.17E-09
1834	257277.29	4084167.38	1.9642E-09	2.62E-08	4.58E-09	4.58E-09	2.55E-09	3.99E-08	2.98E-10	4.00E-09	7.16E-10	7.16E-10	3.93E-10	6.12E-09	1.62E-10	2.16E-09	3.18E-10	3.18E-10	1.58E-10	3.12E-09
1835	257317.54	4084148.79	1.9314E-09	2.58E-08	4.51E-09	4.51E-09	2.51E-09	3.93E-08	2.93E-10	3.93E-09	7.04E-10	7.04E-10	3.87E-10	6.02E-09	1.59E-10	2.13E-09	3.13E-10	3.13E-10	1.55E-10	3.07E-09
1836	257357.78	4084130.2	1.9078E-09	2.55E-08	4.45E-09	4.45E-09	2.48E-09	3.88E-08	2.90E-10	3.88E-09	6.95E-10	6.95E-10	3.82E-10	5.94E-09	1.57E-10	2.10E-09	3.09E-10	3.09E-10	1.53E-10	3.03E-09
1837	257398.03	4084111.61	1.8986E-09	2.54E-08	4.43E-09	4.43E-09	2.47E-09	3.86E-08	2.88E-10	3.86E-09	6.92E-10	6.92E-10	3.80E-10	5.92E-09	1.57E-10	2.09E-09	3.08E-10	3.08E-10	1.52E-10	3.01E-09
1838	257438.27	4084093.01	1.9041E-09	2.54E-08	4.44E-09	4.44E-09	2.48E-09	3.87E-08	2.89E-10	3.87E-09	6.94E-10	6.94E-10	3.81E-10	5.93E-09	1.57E-10	2.10E-09	3.09E-10	3.09E-10	1.53E-10	3.02E-09
1839	257478.52	4084074.42	1.9242E-09	2.57E-08	4.49E-09	4.49E-09	2.50E-09	3.91E-08	2.92E-10	3.92E-09	7.01E-10	7.01E-10	3.85E-10	5.99E-09	1.59E-10	2.12E-09	3.12E-10	3.12E-10	1.54E-10	3.06E-09
1840	256657.17	4085010.67	5.1949E-09	6.94E-08	1.21E-08	1.21E-08	6.76E-09	1.06E-07	7.88E-10	1.06E-08	1.89E-09	1.89E-09	1.04E-09	1.62E-08	4.28E-10	5.72E-09	8.42E-10	8.42E-10	4.17E-10	8.25E-09
1841	256658.82	4085055.24	5.5866E-09	7.46E-08	1.30E-08	1.30E-08	7.27E-09	1.14E-07	8.48E-10	1.14E-08	2.04E-09	2.04E-09	1.12E-09	1.74E-08	4.60E-10	6.15E-09	9.05E-10	9.05E-10	4.48E-10	8.87E-09

1842	256660.47	4085099.8	5.8636E-09	7.83E-08	1.37E-08	1.37E-08	7.63E-09	1.19E-07	8.90E-10	1.19E-08	2.14E-09	2.14E-09	1.17E-09	1.83E-08	4.83E-10	6.46E-09	9.50E-10	9.50E-10	4.70E-10	9.31E-09
1843	256662.13	4085144.36	6.0512E-09	8.08E-08	1.41E-08	1.41E-08	7.87E-09	1.23E-07	9.18E-10	1.23E-08	2.20E-09	2.20E-09	1.21E-09	1.89E-08	4.99E-10	6.66E-09	9.81E-10	9.81E-10	4.85E-10	9.61E-09
1844	256662.95	4085166.64	6.1296E-09	8.19E-08	1.43E-08	1.43E-08	7.97E-09	1.25E-07	9.30E-10	1.25E-08	2.23E-09	2.23E-09	1.23E-09	1.91E-08	5.05E-10	6.75E-09	9.93E-10	9.93E-10	4.92E-10	9.73E-09
1845	256464.16	4084975.07	3.9613E-09	5.29E-08	9.24E-09	9.24E-09	5.15E-09	8.05E-08	6.01E-10	8.06E-09	1.44E-09	1.44E-09	7.93E-10	1.23E-08	3.27E-10	4.36E-09	6.42E-10	6.42E-10	3.18E-10	6.29E-09
1846	256479.51	4084933.62	3.6697E-09	4.90E-08	8.56E-09	8.56E-09	4.77E-09	7.46E-08	5.57E-10	7.47E-09	1.34E-09	1.34E-09	7.35E-10	1.14E-08	3.02E-10	4.04E-09	5.95E-10	5.95E-10	2.94E-10	5.83E-09
1847	256494.86	4084892.17	3.3891E-09	4.53E-08	7.91E-09	7.91E-09	4.41E-09	6.89E-08	5.14E-10	6.90E-09	1.23E-09	1.23E-09	6.79E-10	1.06E-08	2.79E-10	3.73E-09	5.49E-10	5.49E-10	2.72E-10	5.38E-09
1848	256510.21	4084850.72	3.1413E-09	4.20E-08	7.33E-09	7.33E-09	4.09E-09	6.38E-08	4.77E-10	6.39E-09	1.14E-09	1.14E-09	6.29E-10	9.79E-09	2.59E-10	3.46E-09	5.09E-10	5.09E-10	2.52E-10	4.99E-09
1849	256525.56	4084809.27	2.9427E-09	3.93E-08	6.87E-09	6.87E-09	3.83E-09	5.98E-08	4.47E-10	5.99E-09	1.07E-09	1.07E-09	5.89E-10	9.17E-09	2.43E-10	3.24E-09	4.77E-10	4.77E-10	2.36E-10	4.67E-09
1850	256540.91	4084767.82	2.786E-09	3.72E-08	6.50E-09	6.50E-09	3.62E-09	5.66E-08	4.23E-10	5.67E-09	1.01E-09	1.01E-09	5.58E-10	8.68E-09	2.30E-10	3.07E-09	4.52E-10	4.52E-10	2.24E-10	4.42E-09
1851	256556.26	4084726.36	2.6548E-09	3.55E-08	6.19E-09	6.19E-09	3.45E-09	5.40E-08	4.03E-10	5.40E-09	9.67E-10	9.67E-10	5.32E-10	8.27E-09	2.19E-10	2.92E-09	4.30E-10	4.30E-10	2.13E-10	4.22E-09
1852	256571.61	4084684.91	2.5309E-09	3.38E-08	5.90E-09	5.90E-09	3.29E-09	5.14E-08	3.84E-10	5.15E-09	9.22E-10	9.22E-10	5.07E-10	7.89E-09	2.09E-10	2.79E-09	4.10E-10	4.10E-10	2.03E-10	4.02E-09
1853	256586.96	4084643.46	2.3961E-09	3.20E-08	5.59E-09	5.59E-09	3.12E-09	4.87E-08	3.64E-10	4.88E-09	8.73E-10	8.73E-10	4.80E-10	7.47E-09	1.98E-10	2.64E-09	3.88E-10	3.88E-10	1.92E-10	3.80E-09
1854	256602.31	4084602.01	2.2467E-09	3.00E-08	5.24E-09	5.24E-09	2.92E-09	4.57E-08	3.41E-10	4.57E-09	8.18E-10	8.18E-10	4.50E-10	7.00E-09	1.85E-10	2.47E-09	3.64E-10	3.64E-10	1.80E-10	3.57E-09
1855	256617.66	4084560.56	2.09E-09	2.79E-08	4.88E-09	4.88E-09	2.72E-09	4.25E-08	3.17E-10	4.25E-09	7.61E-10	7.61E-10	4.19E-10	6.51E-09	1.72E-10	2.30E-09	3.39E-10	3.39E-10	1.68E-10	3.32E-09
1856	256633.01	4084519.11	1.9406E-09	2.59E-08	4.53E-09	4.53E-09	2.52E-09	3.94E-08	2.95E-10	3.95E-09	7.07E-10	7.07E-10	3.89E-10	6.05E-09	1.60E-10	2.14E-09	3.15E-10	3.15E-10	1.56E-10	3.08E-09
1857	256648.36	4084477.66	1.813E-09	2.42E-08	4.23E-09	4.23E-09	2.36E-09	3.68E-08	2.75E-10	3.69E-09	6.60E-10	6.60E-10	3.63E-10	5.65E-09	1.49E-10	2.00E-09	2.94E-10	2.94E-10	1.45E-10	2.88E-09
1858	256663.71	4084436.2	1.7183E-09	2.30E-08	4.01E-09	4.01E-09	2.23E-09	3.49E-08	2.61E-10	3.50E-09	6.26E-10	6.26E-10	3.44E-10	5.35E-09	1.42E-10	1.89E-09	2.78E-10	2.78E-10	1.38E-10	2.73E-09
1859	256679.06	4084394.75	1.6508E-09	2.21E-08	3.85E-09	3.85E-09	2.15E-09	3.36E-08	2.51E-10	3.36E-09	6.01E-10	6.01E-10	3.31E-10	5.14E-09	1.36E-10	1.82E-09	2.68E-10	2.68E-10	1.32E-10	2.62E-09
1860	256694.41	4084353.3	1.6035E-09	2.14E-08	3.74E-09	3.74E-09	2.09E-09	3.26E-08	2.43E-10	3.26E-09	5.84E-10	5.84E-10	3.21E-10	5.00E-09	1.32E-10	1.77E-09	2.60E-10	2.60E-10	1.29E-10	2.55E-09
1861	256709.76	4084311.85	1.567E-09	2.09E-08	3.66E-09	3.66E-09	2.04E-09	3.18E-08	2.38E-10	3.19E-09	5.71E-10	5.71E-10	3.14E-10	4.88E-09	1.29E-10	1.73E-09	2.54E-10	2.54E-10	1.26E-10	2.49E-09
1862	256725.11	4084270.4	1.5342E-09	2.05E-08	3.58E-09	3.58E-09	2.00E-09	3.12E-08	2.33E-10	3.12E-09	5.59E-10	5.59E-10	3.07E-10	4.78E-09	1.26E-10	1.69E-09	2.49E-10	2.49E-10	1.23E-10	2.44E-09
1863	256740.46	4084228.95	1.5014E-09	2.01E-08	3.50E-09	3.50E-09	1.95E-09	3.05E-08	2.28E-10	3.06E-09	5.47E-10	5.47E-10	3.01E-10	4.68E-09	1.24E-10	1.65E-09	2.43E-10	2.43E-10	1.20E-10	2.38E-09
1864	256768.19	4084198.95	1.496E-09	2.00E-08	3.49E-09	3.49E-09	1.95E-09	3.04E-08	2.27E-10	3.04E-09	5.45E-10	5.45E-10	3.00E-10	4.66E-09	1.23E-10	1.65E-09	2.42E-10	2.42E-10	1.20E-10	2.38E-09
1865	256808.32	4084180.41	1.5124E-09	2.02E-08	3.53E-09	3.53E-09	1.97E-09	3.07E-08	2.30E-10	3.08E-09	5.51E-10	5.51E-10	3.03E-10	4.71E-09	1.25E-10	1.67E-09	2.45E-10	2.45E-10	1.21E-10	2.40E-09
1866	256848.45	4084161.88	1.5324E-09	2.05E-08	3.58E-09	3.58E-09	1.99E-09	3.11E-08	2.33E-10	3.12E-09	5.58E-10	5.58E-10	3.07E-10	4.77E-09	1.26E-10	1.69E-09	2.48E-10	2.48E-10	1.23E-10	2.43E-09
1867	256888.58	4084143.34	1.5524E-09	2.07E-08	3.62E-09	3.62E-09	2.02E-09	3.16E-08	2.36E-10	3.16E-09	5.66E-10	5.66E-10	3.11E-10	4.84E-09	1.28E-10	1.71E-09	2.52E-10	2.52E-10	1.25E-10	2.47E-09
1868	256928.7	4084124.8	1.5743E-09	2.10E-08	3.67E-09	3.67E-09	2.05E-09	3.20E-08	2.39E-10	3.20E-09	5.73E-10	5.73E-10	3.15E-10	4.90E-09	1.30E-10	1.73E-09	2.55E-10	2.55E-10	1.26E-10	2.50E-09
1869	256968.83	4084106.26	1.5889E-09	2.12E-08	3.71E-09	3.71E-09	2.07E-09	3.23E-08	2.41E-10	3.23E-09	5.79E-10	5.79E-10	3.18E-10	4.95E-09	1.31E-10	1.75E-09	2.58E-10	2.58E-10	1.27E-10	2.52E-09
1870	257008.96	4084087.72	1.5944E-09	2.13E-08	3.72E-09	3.72E-09	2.07E-09	3.24E-08	2.42E-10	3.24E-09	5.81E-10	5.81E-10	3.19E-10	4.97E-09	1.31E-10	1.76E-09	2.58E-10	2.58E-10	1.28E-10	2.53E-09
1871	257049.08	4084069.19	1.5889E-09	2.12E-08	3.71E-09	3.71E-09	2.07E-09	3.23E-08	2.41E-10	3.23E-09	5.79E-10	5.79E-10	3.18E-10	4.95E-09	1.31E-10	1.75E-09	2.58E-10	2.58E-10	1.27E-10	2.52E-09
1872	257089.21	4084050.65	1.5743E-09	2.10E-08	3.67E-09	3.67E-09	2.05E-09	3.20E-08	2.39E-10	3.20E-09	5.73E-10	5.73E-10	3.15E-10	4.90E-09	1.30E-10	1.73E-09	2.55E-10	2.55E-10	1.26E-10	2.50E-09
1873	257129.34	4084032.11	1.5524E-09	2.07E-08	3.62E-09	3.62E-09	2.02E-09	3.16E-08	2.36E-10	3.16E-09	5.66E-10	5.66E-10	3.11E-10	4.84E-09	1.28E-10	1.71E-09	2.52E-10	2.52E-10	1.25E-10	2.47E-09
1874	257169.47	4084013.57	1.5288E-09	2.04E-08	3.57E-09	3.57E-09	1.99E-09	3.11E-08	2.32E-10	3.11E-09	5.57E-10	5.57E-10	3.06E-10	4.76E-09	1.26E-10	1.68E-09	2.48E-10	2.48E-10	1.23E-10	2.43E-09
1875	257209.59	4083995.03	1.5051E-09	2.01E-08	3.51E-09	3.51E-09	1.96E-09	3.06E-08	2.28E-10	3.06E-09	5.48E-10	5.48E-10	3.01E-10	4.69E-09	1.24E-10	1.66E-09	2.44E-10	2.44E-10	1.21E-10	2.39E-09
1876	257249.72	4083976.5	1.485E-09	1.98E-08	3.46E-09	3.46E-09	1.93E-09	3.02E-08	2.25E-10	3.02E-09	5.41E-10	5.41E-10	2.97E-10	4.63E-09	1.22E-10	1.64E-09	2.41E-10	2.41E-10	1.19E-10	2.36E-09
1877	257289.85	4083957.96	1.4723E-09	1.97E-08	3.43E-09	3.43E-09	1.92E-09	2.99E-08	2.23E-10	3.00E-09	5.36E-10	5.36E-10	2.95E-10	4.59E-09	1.21E-10	1.62E-09	2.39E-10	2.39E-10	1.18E-10	2.34E-09
1878	257329.97	4083939.42	1.465E-09	1.96E-08	3.42E-09	3.42E-09	1.91E-09	2.98E-08	2.22E-10	2.98E-09	5.34E-10	5.34E-10	2.93E-10	4.56E-09	1.21E-10	1.61E-09	2.37E-10	2.37E-10	1.18E-10	2.33E-09
1879	257370.1	4083920.88	1.465E-09	1.96E-08	3.42E-09	3.42E-09	1.91E-09	2.98E-08	2.22E-10	2.98E-09	5.34E-10	5.34E-10	2.93E-10	4.56E-09	1.21E-10	1.61E-09	2.37E-10	2.37E-10	1.18E-10	2.33E-09
1880	257410.23	4083902.34	1.4686E-09	1.96E-08	3.43E-09	3.43E-09	1.91E-09	2.98E-08	2.23E-10	2.99E-09	5.35E-10	5.35E-10	2.94E-10	4.58E-09	1.21E-10	1.62E-09	2.38E-10	2.38E-10	1.18E-10	2.33E-09
1881	257450.36	4083883.81	1.4759E-09	1.97E-08	3.44E-09	3.44E-09	1.92E-09	3.00E-08	2.24E-10	3.00E-09	5.38E-10	5.38E-10	2.96E-10	4.60E-09	1.22E-10	1.63E-09	2.39E-10	2.39E-10	1.18E-10	2.34E-09
1882	256457.31	4085018.08	4.2455E-09	5.67E-08	9.91E-09	9.91E-09	5.52E-09	8.63E-08	6.44E-10	8.64E-09	1.55E-09	1.55E-09	8.50E-10	1.32E-08	3.50E-10	4.67E-09	6.88E-10	6.88E-10	3.41E-10	6.74E-09
1883	256458.96	4085062.64	4.4988E-09	6.01E-08	1.05E-08	1.05E-08	5.85E-09	9.14E-08	6.83E-10	9.15E-09	1.64E-09	1.64E-09	9.01E-10	1.40E-08	3.71E-10	4.95E-09	7.29E-10	7.29E-10	3.61E-10	7.14E-09
1884	256460.61	4085107.2	4.6646E-09	6.23E-08	1.09E-08	1.09E-08	6.07E-09	9.48E-08	7.08E-10	9.49E-09	1.70E-09	1.70E-09	9.34E-10	1.45E-08	3.84E-10	5.14E-09	7.56E-10	7.56E-10	3.74E-10	7.41E-09
1885	256462.26	4085151.77	4.7685E-09	6.37E-08	1.11E-08	1.11E-08	6.20E-09	9.69E-08	7.24E-10	9.70E-09	1.74E-09	1.74E-09	9.55E-10	1.49E-08	3.93E-10	5.25E-09	7.73E-10	7.73E-10	3.83E-10	7.57E-09
1886	256463.91	4085196.33	4.8541E-09	6.48E-08	1.13E-08	1.13E-08	6.31E-09	9.87E-08	7.37E-10	9.88E-09	1.77E-09	1.77E-09	9.72E-10	1.51E-08	4.00E-10	5.34E-09	7.87E-10	7.87E-10	3.89E-10	7.71E-09
1887	256264.28	4084982.52	3.3891E-09	4.53E-08	7.91E-09	7.91E-09	4.41E-09	6.89E-08	5.14E-10	6.90E-09	1.23E-09	1.23E-09	6.79E-10	1.06E-08	2.79E-10	3.73E-09	5.49E-10	5.49E-10	2.72E-10	5.38E-09
1888	256279.6	4084941.15	3.1723E-09	4.24E-08	7.40E-09	7.40E-09	4.13E-09	6.45E-08	4.81E-10	6.46E-09	1.16E-09	1.16E-09	6.35E-10	9.88E-09	2.61E-10	3.49E-09	5.14E-10	5.14E-10	2.54E-10	5.04E-09
1889	256294.92	4084899.78	2.9518E-09	3.94E-08	6.89E-09	6.89E-09	3.84E-09	6.00E-08	4.48E-10	6.01E-09	1.08E-09	1.08E-09	5.91E-10	9.20E-09	2.43E-10	3.25E-09	4.78E-10	4.78E-10	2.37E-10	4.69E-09
1890	256310.24	4084858.42	2.7496E-09	3.67E-08	6.41E-09	6.41E-09	3.58E-09	5.59E-08	4.17E-10	5.60E-09	1.00E-09	1.00E-09	5.51E-10	8.57E-09	2.27E-10	3.03E-09	4.46E-10	4.46E-10	2.21E-10	4.37E-09
1891	256325.56	4084817.05	2.5783E-09	3.44E-08	6.02E-09	6.02E-09	3.35E-09	5.24E-08	3.91E-10	5.25E-09	9.39E-10	9.39E-10	5.16E-10	8.03E-09	2.13E-10	2.84E-09	4.18E-10	4.18E-10	2.07E-10	4.09E-09
1892	256340.87	4084775.68	2.4416E-09	3.26E-08	5.70E-09	5.70E-09	3.18E-09	4.96E-08	3.71E-10	4.97E-09	8.89E-10	8.89E-10	4.89E-10	7.61E-09	2.01E-10	2.69E-09	3.96E-10	3.96E-10	1.96E-10	3.88E-09
1893	256356.19	4084734.31	2.3341E-09	3.12E-08	5.45E-09	5.45E-09	3.04E-09	4.74E-08	3.54E-10	4.75E-09	8.50E-10	8.50E-10	4.67E-10	7.27E-09	1.92E-10	2.57E-09	3.78E-10	3.78E-10	1.87E-10	3.71E-09
1894	256371.51	4084692.95	2.2448E-09	3.00E-08	5.24E-09	5.24E-09	2.92E-09	4.56E-08	3.41E-10	4.57E-09	8.18E-10	8.18E-10	4.50E-10	6.99E-09	1.85E-10	2.47E-09	3.64E-10	3.64E-10	1.80E-10	3.56E-09
1895	256386.83	4084651.58	2.161E-09	2.89E-08	5.04E-09	5.04E-09	2.81E-09	4.39E-08	3.28E-10	4.40E-09	7.87E-10	7.87E-10	4.33E-10	6.73E-09	1.78E-10	2.38E-09	3.50E-10	3.50E-10	1.73E-10	3.43E-09
1896	256402.15	4084610.21	2.0699E-09	2.76E-08	4.83E-09	4.83E-09	2.69E-09	4.21E-08	3.14E-10	4.21E-09	7.54E-10	7.54E-10	4.15E-10	6.45E-09	1.71E-10	2.28E-09	3.35E-10	3.35E-10	1.66E-10	3.29E-09
1897	256417.47	4084568.84	1.9661E-09	2.63E-08	4.59E-09	4.59E-09	2.56E-09	4.00E-08	2.98E-10	4.00E-09	7.16E-10	7.16E-10	3.94E-10	6.13E-09	1.62E-10	2.16E-09	3.19E-10	3.19E-10	1.58E-10	3.12E-09
1898	256432.79	4084527.48	1.8458E-09	2.47E-08	4.31E-09	4.31E-09	2.40E-09	3.75E-08	2.80E-10	3.76E-09	6.72E-10	6.72E-10	3.70E-10	5.75E-09	1.52E-10	2.03E-09	2.99E-10	2.99E-10	1.48E-10	2.93E-09
1899	256448.11	4084486.11	1.7146E-09	2.29E-08	4.00E-09	4.00E-09	2.23E-09	3.48E-08	2.60E-10	3.49E-09	6.25E-10	6.25E-10	3.43E-10	5.34E-09	1.41E-10	1.89E-09	2.78E-10	2.78E-10	1.38E-10	2.72E-09
1900	256463.43	4084444.74	1.5907E-09	2.12E-08	3.71E-09	3.71E-09	2.07E-09	3.23E-08	2.41E-10	3.24E-09	5.79E-10	5.79E-10	3.19E-10	4.96E-09	1.31E-10	1.75E-09	2.58E-10	2.58E-10	1.28E-10	2.53E-09
1901	256478.74	4084403.37	1.485E-09	1.98E-08	3.46E-09	3.46E-09	1.93E-09	3.02E-08	2.25E-10	3.02E-09	5.41E-10	5.41E-10	2.97E-10	4.63E-09	1.22E-10	1.64E-09	2.41E-10	2.41E-10	1.19E-10	2.36E-09
1902	256494.06	4084362	1.403E-09	1.87E-08	3.27E-09	3.27E-09	1.82E-09	2.85E-08	2.13E-10	2.86E-09	5.11E-10	5.11E-10	2.81E-10	4.37E-09	1.16E-10	1.54E-09	2.27E-10	2.27E-10	1.13E-10	2.23E-09
1903	256509.38	4084320.64	1.3484E-09	1.80E-08	3.15E-09	3.15E-09	1.75E-09	2.74E-08	2.05E-10	2.74E-09	4.91E-10	4.91E-10	2.70E-10	4.20E-09	1.11E-10	1.48E-09	2.19E-10	2.19E-10	1.08E-10	2.14E-09
1904	256524.7	4084279.27	1.3156E-09	1.76E-08	3.07E-09	3.07E-09	1.71E-09	2.67E-08	2.00E-10	2.68E-09	4.79E-10	4.79E-10	2.63E-10	4.10E-09	1.08E-10	1.45E-09	2.13E-10	2.13E-10	1.06E-10	2.09E-09
1905	256540.02	4084237.9	1.2973E-09	1.73E-08	3.03E-09	3.03E-09	1.69E-09	2.64E-08	1.97E-10	2.64E-09	4.73E-10	4.73E-10	2.60E-10	4.04E-09	1.07E-10	1.43E-09	2.10E-10	2.10E-10	1.04E-10	2.06E-09
1906	256555.34	4084196.53	1.2864E-09	1.72E-08	3.00E-09	3.00E-09	1.67E-09	2.61E-08	1.95E-10	2.62E-09	4.69E-10	4.69E-10	2.58E-10	4.01E-09	1.06E-10	1.42E-09	2.08E-10	2.08E-10	1.03E-10	2.04E-09
1907	256570.66	4084155.17	1.2773E-09	1.71E-08	2.98E-09	2.98E-09	1.66E-09	2.60E-08	1.94E-10	2.60E-09	4.65E-10	4.65E-10	2.56E-10	3.98E-09	1.05E-10	1.41E-09	2.07E-10	2.07E-10	1.02E-10	2.03E-09
1908	256585.98	4084113.8	1.2682E-09	1.69E-08	2.96E-09	2.96E-09	1.65E-09	2.58E-08	1.92E-10	2.58E-09	4.62E-10	4.62E-10	2.54E-10	3.95E-09	1.05E-10	1.40E-09	2.06E-10	2.06E-10	1.02E-10	2.01E-09
1909	256621.32	4084063.18	1.2591E-09	1.68E-08	2.94E-09	2.94E-09	1.64E-09	2.56E-08	1.91E-10	2.56E-09	4.59E-10	4.59E-10	2.52E-10	3.92E-09	1.04E-10	1.39E-09	2.04E-10	2.04E-10	1.01E-10	2.00E-09
1910	256661.36	4084044.68	1.27E-09	1.70E-08	2.96E-09	2.96E-09	1.65E-09	2.58E-08	1.93E-10	2.58E-09	4.63E-10	4.63E-10	2.54E-10	3.96E-09	1.05E-10	1.40E-09	2.06E-10	2.06E-10	1.02E-10	2.02E-09
1911	256701.41	4084026.18	1.2773E-09	1.71E-08	2.98E-09	2.98E-09	1.66E-09	2.60E-08	1.94E-10	2.60E-09	4.65E-10	4.65E-10	2.56E-10	3.98E-09	1.05E-10	1.41E-09	2.07E-10	2.07E-10	1.02E-10	2.03E-09
1912	256741.46	4084007.68	1.2846E-09	1.72E-08	3.00E-09	3.00E-09	1.67E-09	2.61E-08	1.95E-10	2.61E-09	4.68E-10	4.68E-10	2.57E-10	4.00E-09	1.06E-10	1.41E-09	2.08E-10	2.08E-10	1.03E-10	2.04E-09
1913	256781.5	4083989.18	1.2919E-09	1.73E-08	3.01E-09	3.01E-09	1.68E-09	2.63E-08	1.96E-10	2.63E-09	4.71E-10	4.71E-10	2.59E-10	4.02E-09	1.06E-10	1.42E-09	2.09E-10	2.09E-10	1.04E-10	2.05E-09
1914	256821.55	4083970.68	1.2973E-09	1.73E-08	3.03E-09	3.03E-09	1.69E-09	2.64E-08	1.97E-10	2.64E-09	4.73E-10	4.73E-10	2.60E-10	4.04E-09	1.07E-10	1.43E-09	2.10E-10	2.10E-10	1.04E-10	2.06E-09
1915	256861.59	4083952.18	1.2992E-09	1.74E-08	3.03E-09	3.03E-09	1.69E-09	2.64E-08	1.97E-10	2.64E-09	4.73E-10	4.73E-10	2.60E-10	4.05E-09	1.07E-10	1.43E-09	2.11E-10	2.11E-10	1.04E-10	2.06E-09
1916	256901.64	4083933.68	1.2973E-09	1.73E-08	3.03E-09	3.03E-09	1.69E-09	2.64E-08	1.97E-10	2.64E-09	4.73E-10	4.73E-10	2.60E-10	4.04E-09	1.07E-10	1.43E-09	2.10E-10	2.10E-10	1.04E-10	2.06E-09
1917	256941.69	4083915.18	1.2901E-09	1.72E-08	3.01E-09	3.01E-09	1.68E-09	2.62E-08	1.96E-10	2.63E-09	4.70E-10	4.70E-10	2.58E-10	4.02E-09	1.06E-10	1.42E-09	2.09E-10	2.09E-10	1.03E-10	2.05E-09
1918	256981.73	4083896.67	1.2791E-09	1.71E-08	2.98E-09	2.98E-09	1.66E-09	2.60E-08	1.94E-10	2.60E-09	4.66E-10	4.66E-10	2.56E-10	3.99E-09	1.05E-10	1.41E-09	2.07E-10	2.07E-10	1.03E-10	2.03E-09
1919	257021.78	4083878.17	1.2664E-09	1.69E-08	2.95E-09	2.95E-09	1.65E-09	2.57E-08	1.92E-10	2.58E-09	4.61E-10	4.61E-10	2.54E-10	3.95E-09	1.04E-10	1.39E-09	2.05E-10	2.05E-10	1.02E-10	2.01E-09
1920	257061.82	4083859.67	1.2536E-09	1.67E-08	2.92E-09	2.92E-09	1.63E-09	2.55E-08	1.90E-10	2.55E-09	4.57E-10	4.57E-10	2.51E-10	3.91E-09	1.03E-10	1.38E-09	2.03E-10	2.03E-10	1.01E-10	1.99E-09
1921	257101.87	4083841.17	1.2427E-09	1.66E-08	2.90E-09	2.90E-09	1.62E-09	2.53E-08	1.89E-10	2.53E-09	4.53E-10	4.53E-10	2.49E-10	3.87E-09	1.02E-10	1.37E-09	2.01E-10	2.01E-10	9.97E-11	1.97E-09
1922	257141.92	4083822.67	1.2317E-09	1.65E-08	2.87E-09	2.87E-09	1.60E-09	2.50E-08	1.87E-10	2.51E-09	4.49E-10	4.49E-10	2.47E-10	3.84E-09	1.02E-10	1.36E-09	2.00E-10	2.00E-10	9.88E-11	1.96E-09
1923	257181.96	4083804.17	1.2208E-09	1.63E-08	2.85E-09	2.85E-09	1.59E-09	2.48E-08	1.85E-10	2.48E-09	4.45E-10	4.45E-10	2.44E-10	3.80E-09	1.01E-10	1.34E-09	1.98E-10	1.98E-10	9.79E-11	1.94E-09
1924	257222.01	4083785.67	1.2099E-09	1.62E-08	2.82E-09	2.82E-09	1.57E-09	2.46E-08	1.84E-10	2.46E-09	4.41E-10	4.41E-10	2.42E-10	3.77E-09	9.97E-11	1.33E-09	1.96E-10	1.96E-10	9.71E-11	1.92E-09
1925	257262.05	4083767.17	1.2008E-09	1.60E-08	2.80E-09	2.80E-09	1.56E-09	2.44E-08	1.82E-10	2.44E-09	4.37E-10	4.37E-10	2.40E-10	3.74E-09	9.90E-11	1.32E-09	1.95E-10	1.95E-10	9.63E-11	1.91E-09
1926	257302.1	4083748.67	1.1917E-09	1.59E-08	2.78E-09	2.78E-09	1.55E-09	2.42E-08	1.81E-10	2.43E-09	4.34E-10	4.34E-10	2.39E-10	3.71E-09	9.82E-11	1.31E-09	1.93E-10	1.93E-10	9.56E-11	1.89E-09
1927	257342.15	4083730.17	1.1826E-09	1.58E-08	2.76E-09	2.76E-09	1.54E-09	2.40E-08	1.79E-10	2.41E-09	4.31E-10	4.31E-10	2.37E-10	3.68E-09	9.75E-11	1.30E-09	1.92E-10	1.92E-10	9.49E-11	1.88E-09
1928	257382.19	4083711.67	1.1753E-09	1.57E-08	2.74E-09	2.74E-09	1.53E-09	2.39E-08	1.78E-10	2.39E-09	4.28E-10	4.28E-10	2.35E-10	3.66E-09	9.69E-11	1.29E-09	1.90E-10	1.90E-10	9.43E-11	1.87E-09
1929	257422.24	4083693.17	1.1698E-09	1.56E-08	2.73E-09	2.73E-09	1.52E-09	2.38E-08	1.78E-10	2.38E-09	4.26E-10	4.26E-10	2.34E-10	3.64E-09	9.64E-11	1.29E-09	1.90E-10	1.90E-10	9.38E-11	1.86E-09
1930	257462.28	4083674.67	1.1662E-09	1.56E-08	2.72E-09	2.72E-09	1.52E-09	2.37E-08	1.77E-10	2.37E-09	4.25E-10	4.25E-10	2.34E-10	3.63E-09	9.61E-11	1.28E-09	1.89E-10	1.89E-10	9.36E-11	1.85E-09
1931	256257.45	4085025.49	3.5932E-09	4.80E-08	8.38E-09	8.38E-09	4.67E-09	7.30E-08	5.45E-10	7.31E-09	1.31E-09	1.31E-09	7.20E-10	1.12E-08	2.96E-10	3.96E-09	5.82E-10	5.82E-10	2.88E-10	5.71E-09
1932	256259.1	4085070.05	3.7663E-09	5.03E-08	8.79E-09	8.79E-09	4.90E-09	7.65E-08	5.72E-10	7.66E-09	1.37E-09	1.37E-09	7.54E-10	1.17E-08	3.10E-10	4.15E-09	6.10E-10	6.10E-10	3.02E-10	5.98E-09
1933	256260.75	4085114.61	3.872E-09	5.17E-08	9.03E-09	9.03E-09	5.04E-09	7.87E-08	5.88E-10	7.88E-09	1.41E-09	1.41E-09	7.75E-10	1.21E-08	3.19E-10	4.26E-09	6.28E-10	6.28E-10	3.11E-10	6.15E-09
1934	256261.57	4085136.89	3.9066E-09	5.22E-08	9.11E-09	9.11E-09	5.08E-09	7.94E-08	5.93E-10	7.95E-09	1.42E-09	1.42E-09	7.82E-10	1.22E-08	3.22E-10	4.30E-09	6.33E-10	6.33E-10	3.13E-10	6.20E-09
1935	256263.23	4085181.45	3.9576E-09	5.29E-08	9.23E-09	9.23E-09	5.15E-09	8.04E-08	6.01E-10	8.05E-09	1.44E-09	1.44E-09	7.93E-10	1.23E-08	3.26E-10	4.36E-09	6.41E-10	6.41E-10	3.17E-10	6.28E-09
1936	256064.41	4084989.96	2.9664E-09	3.96E-08	6.92E-09	6.92E-09	3.86E-09	6.03E-08	4.50E-10	6.04E-09	1.08E-09	1.08E-09	5.94E-10	9.24E-09	2.45E-10	3.27E-09	4.81E-10	4.81E-10	2.38E-10	4.71E-09
1937	256079.7	4084948.65	2.8061E-09	3.75E-08	6.55E-09	6.55E-09	3.65E-09	5.70E-08	4.26E-10	5.71E-09	1.02E-09	1.02E-09	5.62E-10	8.74E-09	2.31E-10	3.09E-09	4.55E-10	4.55E-10	2.25E-10	4.46E-09
1938	256095	4084907.34	2.6311E-09	3.51E-08	6.14E-09	6.14E-09	3.42E-09	5.35E-08	3.99E-10	5.35E-09	9.58E-10	9.58E-10	5.27E-10	8.20E-09	2.17E-10	2.90E-09	4.26E-10	4.26E-10	2.11E-10	4.18E-09
1939	256110.3	4084866.04	2.4635E-09	3.29E-08	5.75E-09	5.75E-09	3.20E-09	5.01E-08	3.74E-10	5.01E-09	8.97E-10	8.97E-10	4.93E-10	7.68E-09	2.03E-10	2.71E-09	3.99E-10	3.99E-10	1.98E-10	3.91E-09
1940	256125.59	4084824.73	2.3141E-09	3.09E-08	5.40E-09	5.40E-09	3.01E-09	4.70E-08	3.51E-10	4.71E-09	8.43E-10	8.43E-10	4.63E-10	7.21E-09	1.91E-10	2.55E-09	3.75E-10	3.75E-10	1.86E-10	3.67E-09
1941	256140.89	4084783.42	2.1902E-09	2.93E-08	5.11E-09	5.11E-09	2.85E-09	4.45E-08	3.32E-10	4.46E-09	7.98E-10	7.98E-10	4.39E-10	6.82E-09	1.81E-10	2.41E-09	3.55E-10	3.55E-10	1.76E-10	3.48E-09
1942	256156.18	4084742.12	2.0918E-09	2.79E-08	4.88E-09	4.88E-09	2.72E-09	4.25E-08	3.17E-10	4.26E-09	7.62E-10	7.62E-10	4.19E-10	6.52E-09	1.72E-10	2.30E-09	3.39E-10	3.39E-10	1.68E-10	3.32E-09
1943	256171.48	4084700.81	2.0134E-09	2.69E-08	4.70E-09	4.70E-09	2.62E-09	4.09E-08	3.06E-10	4.10E-09	7.33E-10	7.33E-10	4.03E-10	6.27E-09	1.66E-10	2.22E-09	3.26E-10	3.26E-10	1.62E-10	3.20E-09
1944	256186.78	4084659.5	1.9478E-09	2.60E-08	4.54E-09	4.54E-09	2.53E-09	3.96E-08	2.96E-10	3.96E-09	7.10E-10	7.10E-10	3.90E-10	6.07E-09	1.61E-10	2.14E-09	3.16E-10	3.16E-10	1.56E-10	3.09E-09
1945	256202.07	4084618.2	1.8877E-09	2.52E-08	4.40E-09	4.40E-09	2.46E-09	3.84E-08	2.86E-10	3.84E-09	6.88E-10	6.88E-10	3.78E-10	5.88E-09	1.56E-10	2.08E-09	3.06E-10	3.06E-10	1.51E-10	3.00E-09
1946	256217.37	4084576.89	1.8239E-09	2.44E-08	4.26E-09	4.26E-09	2.37E-09	3.71E-08	2.77E-10	3.71E-09	6.64E-10	6.64E-10	3.65E-10	5.68E-09	1.50E-10	2.01E-09	2.96E-10	2.96E-10	1.46E-10	2.90E-09
1947	256232.66	4084535.58	1.7511E-09	2.34E-08	4.09E-09	4.09E-09	2.28E-09	3.56E-08	2.66E-10	3.56E-09	6.38E-10	6.38E-10	3.51E-10	5.46E-09	1.44E-10	1.93E-09	2.84E-10	2.84E-10	1.40E-10	2.78E-09
1948	256247.96	4084494.28	1.6618E-09	2.22E-08	3.88E-09	3.88E-09	2.16E-09	3.38E-08	2.52E-10	3.38E-09	6.05E-10	6.05E-10	3.33E-10	5.18E-09	1.37E-10	1.83E-09	2.69E-10	2.69E-10	1.33E-10	2.64E-09
1949	256263.26	4084452.97	1.5561E-09	2.08E-08	3.63E-09	3.63E-09	2.02E-09	3.16E-08	2.36E-10	3.17E-09	5.67E-10	5.67E-10	3.12E-10	4.85E-09	1.28E-10	1.71E-09	2.52E-10	2.52E-10	1.25E-10	2.47E-09
1950	256278.55	4084411.66	1.4504E-09	1.94E-08	3.38E-09	3.38E-09	1.89E-09	2.95E-08	2.20E-10	2.95E-09	5.28E-10	5.28E-10	2.90E-10	4.52E-09	1.20E-10	1.60E-09	2.35E-10	2.35E-10	1.16E-10	2.30E-09
1951	256293.85	4084370.36	1.3447E-09	1.80E-08	3.14E-09	3.14E-09	1.75E-09	2.73E-08	2.04E-10	2.74E-09	4.90E-10	4.90E-10	2.69E-10	4.19E-09	1.11E-10	1.48E-09	2.18E-10	2.18E-10	1.08E-10	2.14E-09
1952	256309.15	4084329.05	1.2536E-09	1.67E-08	2.92E-09	2.92E-09	1.63E-09	2.55E-08	1.90E-10	2.55E-09	4.57E-10	4.57E-10	2.51E-10	3.91E-09	1.03E-10	1.38E-09	2.03E-10	2.03E-10	1.01E-10	1.99E-09
1953	256324.44	4084287.74	1.1826E-09	1.58E-08	2.76E-09	2.76E-09	1.54E-09	2.40E-08	1.79E-10	2.41E-09	4.31E-10	4.31E-10	2.37E-10	3.68E-09	9.75E-11	1.30E-09	1.92E-10	1.92E-10	9.49E-11	1.88E-09
1954	256339.74	4084246.44	1.1334E-09	1.51E-08	2.64E-09	2.64E-09	1.47E-09	2.30E-08	1.72E-10	2.31E-09	4.13E-10	4.13E-10	2.27E-10	3.53E-09	9.34E-11	1.25E-09	1.84E-10	1.84E-10	9.09E-11	1.80E-09
1955	256355.03	4084205.13	1.1042E-09	1.47E-08	2.58E-09	2.58E-09	1.44E-09	2.24E-08	1.68E-10	2.25E-09	4.02E-10	4.02E-10	2.21E-10	3.44E-09	9.10E-11	1.22E-09	1.79E-10	1.79E-10	8.86E-11	1.75E-09
1956	256370.33	4084163.83	1.0933E-09	1.46E-08	2.55E-09	2.55E-09	1.42E-09	2.22E-08	1.66E-10	2.22E-09	3.98E-10	3.98E-10	2.19E-10	3.41E-09	9.01E-11	1.20E-09	1.77E-10	1.77E-10	8.77E-11	1.74E-09
1957	256385.63	4084122.52	1.0933E-09	1.46E-08	2.55E-09	2.55E-09	1.42E-09	2.22E-08	1.66E-10	2.22E-09	3.98E-10	3.98E-10	2.19E-10	3.41E-09	9.01E-11	1.20E-09	1.77E-10	1.77E-10	8.77E-11	1.74E-09
1958	256400.92	4084081.21	1.0987E-09	1.47E-08	2.56E-09	2.56E-09	1.43E-09	2.23E-08	1.67E-10	2.24E-09	4.00E-10	4.00E-10	2.20E-10	3.42E-09	9.06E-11	1.21E-09	1.78E-10	1.78E-10	8.81E-11	1.74E-09
1959	256416.22	4084039.91	1.1024E-09	1.47E-08	2.57E-09	2.57E-09	1.43E-09	2.24E-08	1.67E-10	2.24E-09	4.02E-10	4.02E-10	2.21E-10	3.43E-09	9.09E-11	1.21E-09	1.79E-10	1.79E-10	8.84E-11	1.75E-09
1960	256431.51	4083998.6	1.1042E-09	1.47E-08	2.58E-09	2.58E-09	1.44E-09	2.24E-08	1.68E-10	2.25E-09	4.02E-10	4.02E-10	2.21E-10	3.44E-09	9.10E-11	1.22E-09	1.79E-10	1.79E-10	8.86E-11	1.75E-09
1961	256446.81	4083957.29	1.0969E-09	1.47E-08	2.56E-09	2.56E-09	1.43E-09	2.23E-08	1.66E-10	2.23E-09	4.00E-10	4.00E-10	2.20E-10	3.42E-09	9.04E-11	1.21E-09	1.78E-10	1.78E-10	8.80E-11	1.74E-09
1962	256474.45	4083927.4	1.0951E-09	1.46E-08	2.55E-09	2.55E-09	1.42E-09	2.23E-08	1.66E-10	2.23E-09	3.99E-10	3.99E-10	2.19E-10	3.41E-09	9.03E-11	1.21E-09	1.77E-10	1.77E-10	8.79E-11	1.74E-09
1963	256514.44	4083908.93	1.0987E-09	1.47E-08	2.56E-09	2.56E-09	1.43E-09	2.23E-08	1.67E-10	2.24E-09	4.00E-10	4.00E-10	2.20E-10	3.42E-09	9.06E-11	1.21E-09	1.78E-10	1.78E-10	8.81E-11	1.74E-09
1964	256554.43	4083890.46	1.0987E-09	1.47E-08	2.56E-09	2.56E-09	1.43E-09	2.23E-08	1.67E-10	2.24E-09	4.00E-10	4.00E-10	2.20E-10	3.42E-09	9.06E-11	1.21E-09	1.78E-10	1.78E-10	8.81E-11	1.74E-09

1965	256594.41	4083871.98	1.0951E-09	1.46E-08	2.55E-09	2.55E-09	1.42E-09	2.23E-08	1.66E-10	2.23E-09	3.99E-10	3.99E-10	2.19E-10	3.41E-09	9.03E-11	1.21E-09	1.77E-10	1.77E-10	8.79E-11	1.74E-09
1966	256634.4	4083853.51	1.0914E-09	1.46E-08	2.55E-09	2.55E-09	1.42E-09	2.22E-08	1.66E-10	2.22E-09	3.98E-10	3.98E-10	2.19E-10	3.40E-09	9.00E-11	1.20E-09	1.77E-10	1.77E-10	8.76E-11	1.73E-09
1967	256674.39	4083835.04	1.0896E-09	1.46E-08	2.54E-09	2.54E-09	1.42E-09	2.21E-08	1.65E-10	2.22E-09	3.97E-10	3.97E-10	2.18E-10	3.39E-09	8.98E-11	1.20E-09	1.77E-10	1.77E-10	8.74E-11	1.73E-09
1968	256714.37	4083816.56	1.0878E-09	1.45E-08	2.54E-09	2.54E-09	1.41E-09	2.21E-08	1.65E-10	2.21E-09	3.96E-10	3.96E-10	2.18E-10	3.39E-09	8.97E-11	1.20E-09	1.76E-10	1.76E-10	8.73E-11	1.73E-09
1969	256754.36	4083798.09	1.086E-09	1.45E-08	2.53E-09	2.53E-09	1.41E-09	2.21E-08	1.65E-10	2.21E-09	3.96E-10	3.96E-10	2.17E-10	3.38E-09	8.95E-11	1.20E-09	1.76E-10	1.76E-10	8.71E-11	1.72E-09
1970	256794.35	4083779.62	1.0823E-09	1.45E-08	2.53E-09	2.53E-09	1.41E-09	2.20E-08	1.64E-10	2.20E-09	3.94E-10	3.94E-10	2.17E-10	3.37E-09	8.92E-11	1.19E-09	1.75E-10	1.75E-10	8.68E-11	1.72E-09
1971	256834.33	4083761.14	1.0787E-09	1.44E-08	2.52E-09	2.52E-09	1.40E-09	2.19E-08	1.64E-10	2.20E-09	3.93E-10	3.93E-10	2.16E-10	3.36E-09	8.89E-11	1.19E-09	1.75E-10	1.75E-10	8.65E-11	1.71E-09
1972	256874.32	4083742.67	1.0769E-09	1.44E-08	2.51E-09	2.51E-09	1.40E-09	2.19E-08	1.63E-10	2.19E-09	3.92E-10	3.92E-10	2.16E-10	3.35E-09	8.88E-11	1.19E-09	1.75E-10	1.75E-10	8.64E-11	1.71E-09
1973	256914.31	4083724.2	1.0732E-09	1.43E-08	2.50E-09	2.50E-09	1.40E-09	2.18E-08	1.63E-10	2.18E-09	3.91E-10	3.91E-10	2.15E-10	3.34E-09	8.85E-11	1.18E-09	1.74E-10	1.74E-10	8.61E-11	1.70E-09
1974	256954.29	4083705.72	1.0696E-09	1.43E-08	2.50E-09	2.50E-09	1.39E-09	2.17E-08	1.62E-10	2.18E-09	3.90E-10	3.90E-10	2.14E-10	3.33E-09	8.82E-11	1.18E-09	1.73E-10	1.73E-10	8.58E-11	1.70E-09
1975	256994.28	4083687.25	1.0659E-09	1.42E-08	2.49E-09	2.49E-09	1.39E-09	2.17E-08	1.62E-10	2.17E-09	3.88E-10	3.88E-10	2.13E-10	3.32E-09	8.79E-11	1.17E-09	1.73E-10	1.73E-10	8.55E-11	1.69E-09
1976	257034.27	4083668.78	1.0605E-09	1.42E-08	2.47E-09	2.47E-09	1.38E-09	2.16E-08	1.61E-10	2.16E-09	3.86E-10	3.86E-10	2.12E-10	3.30E-09	8.74E-11	1.17E-09	1.72E-10	1.72E-10	8.51E-11	1.68E-09
1977	257074.25	4083650.3	1.0532E-09	1.41E-08	2.46E-09	2.46E-09	1.37E-09	2.14E-08	1.60E-10	2.14E-09	3.84E-10	3.84E-10	2.11E-10	3.28E-09	8.68E-11	1.16E-09	1.71E-10	1.71E-10	8.45E-11	1.67E-09
1978	257114.24	4083631.83	1.0441E-09	1.39E-08	2.44E-09	2.44E-09	1.36E-09	2.12E-08	1.58E-10	2.12E-09	3.80E-10	3.80E-10	2.09E-10	3.25E-09	8.61E-11	1.15E-09	1.69E-10	1.69E-10	8.38E-11	1.66E-09
1979	257154.23	4083613.36	1.0331E-09	1.38E-08	2.41E-09	2.41E-09	1.34E-09	2.10E-08	1.57E-10	2.10E-09	3.76E-10	3.76E-10	2.07E-10	3.22E-09	8.52E-11	1.14E-09	1.67E-10	1.67E-10	8.29E-11	1.64E-09
1980	257194.21	4083594.88	1.0186E-09	1.36E-08	2.38E-09	2.38E-09	1.32E-09	2.07E-08	1.55E-10	2.07E-09	3.71E-10	3.71E-10	2.04E-10	3.17E-09	8.40E-11	1.12E-09	1.65E-10	1.65E-10	8.17E-11	1.62E-09
1981	257234.2	4083576.41	1.0022E-09	1.34E-08	2.34E-09	2.34E-09	1.30E-09	2.04E-08	1.52E-10	2.04E-09	3.65E-10	3.65E-10	2.01E-10	3.12E-09	8.26E-11	1.10E-09	1.62E-10	1.62E-10	8.04E-11	1.59E-09
1982	257274.19	4083557.94	9.8576E-10	1.32E-08	2.30E-09	2.30E-09	1.28E-09	2.00E-08	1.50E-10	2.01E-09	3.59E-10	3.59E-10	1.97E-10	3.07E-09	8.13E-11	1.09E-09	1.60E-10	1.60E-10	7.91E-11	1.57E-09
1983	257314.18	4083539.47	9.6937E-10	1.29E-08	2.26E-09	2.26E-09	1.26E-09	1.97E-08	1.47E-10	1.97E-09	3.53E-10	3.53E-10	1.94E-10	3.02E-09	7.99E-11	1.07E-09	1.57E-10	1.57E-10	7.78E-11	1.54E-09
1984	257354.16	4083520.99	9.5661E-10	1.28E-08	2.23E-09	2.23E-09	1.24E-09	1.94E-08	1.45E-10	1.95E-09	3.48E-10	3.48E-10	1.92E-10	2.98E-09	7.89E-11	1.05E-09	1.55E-10	1.55E-10	7.67E-11	1.52E-09
1985	257394.15	4083502.52	9.475E-10	1.27E-08	2.21E-09	2.21E-09	1.23E-09	1.93E-08	1.44E-10	1.93E-09	3.45E-10	3.45E-10	1.90E-10	2.95E-09	7.81E-11	1.04E-09	1.54E-10	1.54E-10	7.60E-11	1.50E-09
1986	257434.14	4083484.05	9.4386E-10	1.26E-08	2.20E-09	2.20E-09	1.23E-09	1.92E-08	1.43E-10	1.92E-09	3.44E-10	3.44E-10	1.89E-10	2.94E-09	7.78E-11	1.04E-09	1.53E-10	1.53E-10	7.57E-11	1.50E-09
1987	256057.58	4085032.89	3.1158E-09	4.16E-08	7.27E-09	7.27E-09	4.05E-09	6.33E-08	4.73E-10	6.34E-09	1.14E-09	1.14E-09	6.24E-10	9.71E-09	2.57E-10	3.43E-09	5.05E-10	5.05E-10	2.50E-10	4.95E-09
1988	256059.24	4085077.45	3.2397E-09	4.33E-08	7.56E-09	7.56E-09	4.21E-09	6.58E-08	4.92E-10	6.59E-09	1.18E-09	1.18E-09	6.49E-10	1.01E-08	2.67E-10	3.57E-09	5.25E-10	5.25E-10	2.60E-10	5.14E-09
1989	256060.89	4085122.02	3.3108E-09	4.42E-08	7.72E-09	7.72E-09	4.31E-09	6.73E-08	5.02E-10	6.74E-09	1.21E-09	1.21E-09	6.63E-10	1.03E-08	2.73E-10	3.65E-09	5.37E-10	5.37E-10	2.66E-10	5.26E-09
1990	256062.54	4085166.58	3.3472E-09	4.47E-08	7.81E-09	7.81E-09	4.35E-09	6.80E-08	5.08E-10	6.81E-09	1.22E-09	1.22E-09	6.70E-10	1.04E-08	2.76E-10	3.69E-09	5.42E-10	5.42E-10	2.69E-10	5.31E-09
1991	256064.19	4085211.14	3.3746E-09	4.51E-08	7.87E-09	7.87E-09	4.39E-09	6.86E-08	5.12E-10	6.87E-09	1.23E-09	1.23E-09	6.76E-10	1.05E-08	2.78E-10	3.72E-09	5.47E-10	5.47E-10	2.71E-10	5.36E-09
1992	257564.27	4085180.58	4.0645E-07	5.43E-06	9.48E-07	9.48E-07	5.29E-07	8.26E-06	6.17E-08	8.27E-07	1.48E-07	1.48E-07	8.14E-08	1.27E-06	3.35E-08	4.48E-07	6.59E-08	6.59E-08	3.26E-08	6.45E-07
1993	257588.55	4085179.5	4.7924E-07	6.40E-06	1.12E-06	1.12E-06	6.23E-07	9.74E-06	7.27E-08	9.75E-07	1.75E-07	1.75E-07	9.60E-08	1.49E-06	3.95E-08	5.28E-07	7.77E-08	7.77E-08	3.84E-08	7.61E-07
1994	257612.83	4085178.42	5.225E-07	6.98E-06	1.22E-06	1.22E-06	6.80E-07	1.06E-05	7.93E-08	1.06E-06	1.90E-07	1.90E-07	1.05E-07	1.63E-06	4.31E-08	5.75E-07	8.47E-08	8.47E-08	4.19E-08	8.30E-07
1995	257637.11	4085177.35	5.4921E-07	7.34E-06	1.28E-06	1.28E-06	7.14E-07	1.12E-05	8.34E-08	1.12E-06	2.00E-07	2.00E-07	1.10E-07	1.71E-06	4.53E-08	6.05E-07	8.90E-08	8.90E-08	4.41E-08	8.72E-07
1996	257661.39	4085176.27	5.6715E-07	7.58E-06	1.32E-06	1.32E-06	7.38E-07	1.15E-05	8.61E-08	1.15E-06	2.07E-07	2.07E-07	1.14E-07	1.77E-06	4.67E-08	6.24E-07	9.19E-08	9.19E-08	4.55E-08	9.01E-07
1997	257685.68	4085175.2	5.7977E-07	7.74E-06	1.35E-06	1.35E-06	7.54E-07	1.18E-05	8.80E-08	1.18E-06	2.11E-07	2.11E-07	1.16E-07	1.81E-06	4.78E-08	6.38E-07	9.40E-08	9.40E-08	4.65E-08	9.21E-07
1998	257709.96	4085174.12	5.8912E-07	7.87E-06	1.37E-06	1.37E-06	7.66E-07	1.20E-05	8.94E-08	1.20E-06	2.15E-07	2.15E-07	1.18E-07	1.84E-06	4.86E-08	6.49E-07	9.55E-08	9.55E-08	4.73E-08	9.35E-07
1999	257734.24	4085173.05	5.9597E-07	7.96E-06	1.39E-06	1.39E-06	7.75E-07	1.21E-05	9.04E-08	1.21E-06	2.17E-07	2.17E-07	1.19E-07	1.86E-06	4.91E-08	6.56E-07	9.66E-08	9.66E-08	4.78E-08	9.46E-07
2000	257758.52	4085171.97	6.0106E-07	8.03E-06	1.40E-06	1.40E-06	7.82E-07	1.22E-05	9.12E-08	1.22E-06	2.19E-07	2.19E-07	1.20E-07	1.87E-06	4.95E-08	6.62E-07	9.74E-08	9.74E-08	4.82E-08	9.54E-07
2001	257782.8	4085170.9	6.0473E-07	8.08E-06	1.41E-06	1.41E-06	7.87E-07	1.23E-05	9.18E-08	1.23E-06	2.20E-07	2.20E-07	1.21E-07	1.88E-06	4.98E-08	6.66E-07	9.80E-08	9.80E-08	4.85E-08	9.60E-07
2002	257807.08	4085169.82	6.0748E-07	8.11E-06	1.42E-06	1.42E-06	7.90E-07	1.23E-05	9.22E-08	1.24E-06	2.21E-07	2.21E-07	1.22E-07	1.89E-06	5.01E-08	6.69E-07	9.85E-08	9.85E-08	4.87E-08	9.65E-07
2003	257831.37	4085168.75	6.0916E-07	8.14E-06	1.42E-06	1.42E-06	7.92E-07	1.24E-05	9.25E-08	1.24E-06	2.22E-07	2.22E-07	1.22E-07	1.90E-06	5.02E-08	6.71E-07	9.87E-08	9.87E-08	4.89E-08	9.67E-07
2004	257855.65	4085167.67	6.1033E-07	8.15E-06	1.42E-06	1.42E-06	7.94E-07	1.24E-05	9.26E-08	1.24E-06	2.22E-07	2.22E-07	1.22E-07	1.90E-06	5.03E-08	6.72E-07	9.89E-08	9.89E-08	4.90E-08	9.69E-07
2005	257879.93	4085166.59	6.1088E-07	8.16E-06	1.43E-06	1.43E-06	7.95E-07	1.24E-05	9.27E-08	1.24E-06	2.23E-07	2.23E-07	1.22E-07	1.90E-06	5.04E-08	6.73E-07	9.90E-08	9.90E-08	4.90E-08	9.70E-07
2006	257904.21	4085165.52	6.1075E-07	8.16E-06	1.42E-06	1.42E-06	7.94E-07	1.24E-05	9.27E-08	1.24E-06	2.22E-07	2.22E-07	1.22E-07	1.90E-06	5.03E-08	6.72E-07	9.90E-08	9.90E-08	4.90E-08	9.70E-07
2007	257928.49	4085164.44	6.1021E-07	8.15E-06	1.42E-06	1.42E-06	7.94E-07	1.24E-05	9.26E-08	1.24E-06	2.22E-07	2.22E-07	1.22E-07	1.90E-06	5.03E-08	6.72E-07	9.89E-08	9.89E-08	4.90E-08	9.69E-07
2008	257952.78	4085163.37	6.0905E-07	8.14E-06	1.42E-06	1.42E-06	7.92E-07	1.24E-05	9.24E-08	1.24E-06	2.22E-07	2.22E-07	1.22E-07	1.90E-06	5.02E-08	6.71E-07	9.87E-08	9.87E-08	4.89E-08	9.67E-07
2009	257977.06	4085162.29	6.0725E-07	8.11E-06	1.42E-06	1.42E-06	7.90E-07	1.23E-05	9.22E-08	1.24E-06	2.21E-07	2.21E-07	1.22E-07	1.89E-06	5.01E-08	6.69E-07	9.84E-08	9.84E-08	4.87E-08	9.64E-07
2010	258001.34	4085161.22	6.0496E-07	8.08E-06	1.41E-06	1.41E-06	7.87E-07	1.23E-05	9.18E-08	1.23E-06	2.20E-07	2.20E-07	1.21E-07	1.88E-06	4.99E-08	6.66E-07	9.80E-08	9.80E-08	4.85E-08	9.61E-07
2011	258025.62	4085160.14	6.0214E-07	8.04E-06	1.40E-06	1.40E-06	7.83E-07	1.22E-05	9.14E-08	1.23E-06	2.19E-07	2.19E-07	1.21E-07	1.88E-06	4.96E-08	6.63E-07	9.76E-08	9.76E-08	4.83E-08	9.56E-07
2012	258049.9	4085159.07	5.9857E-07	8.00E-06	1.40E-06	1.40E-06	7.79E-07	1.22E-05	9.08E-08	1.22E-06	2.18E-07	2.18E-07	1.20E-07	1.86E-06	4.93E-08	6.59E-07	9.70E-08	9.70E-08	4.80E-08	9.50E-07
2013	258074.18	4085157.99	5.9382E-07	7.93E-06	1.39E-06	1.39E-06	7.72E-07	1.21E-05	9.01E-08	1.21E-06	2.16E-07	2.16E-07	1.19E-07	1.85E-06	4.89E-08	6.54E-07	9.62E-08	9.62E-08	4.76E-08	9.43E-07
2014	258098.47	4085156.92	5.7834E-07	7.73E-06	1.35E-06	1.35E-06	7.52E-07	1.18E-05	8.78E-08	1.18E-06	2.11E-07	2.11E-07	1.16E-07	1.80E-06	4.77E-08	6.37E-07	9.37E-08	9.37E-08	4.64E-08	9.18E-07
2015	258122.75	4085155.84	5.7068E-07	7.62E-06	1.33E-06	1.33E-06	7.42E-07	1.16E-05	8.66E-08	1.16E-06	2.08E-07	2.08E-07	1.14E-07	1.78E-06	4.70E-08	6.28E-07	9.25E-08	9.25E-08	4.58E-08	9.06E-07
2016	258147.03	4085154.76	5.6175E-07	7.50E-06	1.31E-06	1.31E-06	7.31E-07	1.14E-05	8.53E-08	1.14E-06	2.05E-07	2.05E-07	1.13E-07	1.75E-06	4.63E-08	6.19E-07	9.10E-08	9.10E-08	4.51E-08	8.92E-07
2017	258171.31	4085153.69	5.5059E-07	7.35E-06	1.28E-06	1.28E-06	7.16E-07	1.12E-05	8.36E-08	1.12E-06	2.01E-07	2.01E-07	1.10E-07	1.72E-06	4.54E-08	6.06E-07	8.92E-08	8.92E-08	4.42E-08	8.74E-07
2018	258195.59	4085152.61	5.3616E-07	7.16E-06	1.25E-06	1.25E-06	6.97E-07	1.09E-05	8.14E-08	1.09E-06	1.95E-07	1.95E-07	1.07E-07	1.67E-06	4.42E-08	5.90E-07	8.69E-08	8.69E-08	4.30E-08	8.51E-07
2019	258219.88	4085151.54	5.1748E-07	6.91E-06	1.21E-06	1.21E-06	6.73E-07	1.05E-05	7.85E-08	1.05E-06	1.89E-07	1.89E-07	1.04E-07	1.61E-06	4.27E-08	5.70E-07	8.39E-08	8.39E-08	4.15E-08	8.22E-07
2020	258244.16	4085150.46	4.9323E-07	6.59E-06	1.15E-06	1.15E-06	6.42E-07	1.00E-05	7.49E-08	1.00E-06	1.80E-07	1.80E-07	9.88E-08	1.54E-06	4.07E-08	5.43E-07	7.99E-08	7.99E-08	3.96E-08	7.83E-07
2021	258268.44	4085149.39	4.608E-07	6.16E-06	1.08E-06	1.08E-06	5.99E-07	9.37E-06	6.99E-08	9.38E-07	1.68E-07	1.68E-07	9.23E-08	1.44E-06	3.80E-08	5.07E-07	7.47E-08	7.47E-08	3.70E-08	7.32E-07
2022	258292.72	4085148.31	4.1658E-07	5.56E-06	9.72E-07	9.72E-07	5.42E-07	8.47E-06	6.32E-08	8.48E-07	1.52E-07	1.52E-07	8.34E-08	1.30E-06	3.43E-08	4.59E-07	6.75E-08	6.75E-08	3.34E-08	6.61E-07
2023	258317	4085147.24	3.5567E-07	4.75E-06	8.30E-07	8.30E-07	4.63E-07	7.23E-06	5.40E-08	7.24E-07	1.30E-07	1.30E-07	7.12E-08	1.11E-06	2.93E-08	3.92E-07	5.76E-08	5.76E-08	2.85E-08	5.65E-07
2024	258341.28	4085146.16	2.7699E-07	3.70E-06	6.46E-07	6.46E-07	3.60E-07	5.63E-06	4.20E-08	5.64E-07	1.01E-07	1.01E-07	5.55E-08	8.63E-07	2.28E-08	3.05E-07	4.49E-08	4.49E-08	2.22E-08	4.40E-07
2025	258365.57	4085145.09	1.9934E-07	2.66E-06	4.65E-07	4.65E-07	2.59E-07	4.05E-06	3.03E-08	4.06E-07	7.26E-08	7.26E-08	3.99E-08	6.21E-07	1.64E-08	2.19E-07	3.23E-08	3.23E-08	1.60E-08	3.17E-07
2026	257547.32	4085198.96	2.8146E-07	3.76E-06	6.57E-07	6.57E-07	3.66E-07	5.72E-06	4.27E-08	5.73E-07	1.03E-07	1.03E-07	5.64E-08	8.77E-07	2.32E-08	3.10E-07	4.56E-08	4.56E-08	2.26E-08	4.47E-07
2027	257589.65	4085204.48	3.2733E-07	4.37E-06	7.64E-07	7.64E-07	4.26E-07	6.65E-06	4.97E-08	6.66E-07	1.19E-07	1.19E-07	6.56E-08	1.02E-06	2.70E-08	3.60E-07	5.31E-08	5.31E-08	2.63E-08	5.20E-07
2028	257613.94	4085203.4	3.5169E-07	4.70E-06	8.21E-07	8.21E-07	4.57E-07	7.15E-06	5.34E-08	7.16E-07	1.28E-07	1.28E-07	7.04E-08	1.10E-06	2.90E-08	3.87E-07	5.70E-08	5.70E-08	2.82E-08	5.58E-07
2029	257638.22	4085202.32	3.6883E-07	4.93E-06	8.61E-07	8.61E-07	4.80E-07	7.50E-06	5.60E-08	7.51E-07	1.34E-07	1.34E-07	7.39E-08	1.15E-06	3.04E-08	4.06E-07	5.98E-08	5.98E-08	2.96E-08	5.86E-07
2030	257662.5	4085201.25	3.8116E-07	5.09E-06	8.89E-07	8.89E-07	4.96E-07	7.75E-06	5.78E-08	7.76E-07	1.39E-07	1.39E-07	7.63E-08	1.19E-06	3.14E-08	4.20E-07	6.18E-08	6.18E-08	3.06E-08	6.05E-07
2031	257686.78	4085200.17	3.9038E-07	5.21E-06	9.11E-07	9.11E-07	5.08E-07	7.93E-06	5.92E-08	7.94E-07	1.42E-07	1.42E-07	7.82E-08	1.22E-06	3.22E-08	4.30E-07	6.33E-08	6.33E-08	3.13E-08	6.20E-07
2032	257711.06	4085199.1	3.9734E-07	5.31E-06	9.27E-07	9.27E-07	5.17E-07	8.08E-06	6.03E-08	8.09E-07	1.45E-07	1.45E-07	7.96E-08	1.24E-06	3.28E-08	4.37E-07	6.44E-08	6.44E-08	3.19E-08	6.31E-07
2033	257735.35	4085198.02	4.0272E-07	5.38E-06	9.40E-07	9.40E-07	5.24E-07	8.18E-06	6.11E-08	8.20E-07	1.47E-07	1.47E-07	8.07E-08	1.25E-06	3.32E-08	4.43E-07	6.53E-08	6.53E-08	3.23E-08	6.39E-07
2034	257759.63	4085196.95	4.0683E-07	5.43E-06	9.49E-07	9.49E-07	5.29E-07	8.27E-06	6.17E-08	8.28E-07	1.48E-07	1.48E-07	8.15E-08	1.27E-06	3.35E-08	4.48E-07	6.59E-08	6.59E-08	3.26E-08	6.46E-07
2035	257783.91	4085195.87	4.1002E-07	5.48E-06	9.57E-07	9.57E-07	5.33E-07	8.33E-06	6.22E-08	8.34E-07	1.49E-07	1.49E-07	8.21E-08	1.28E-06	3.38E-08	4.51E-07	6.65E-08	6.65E-08	3.29E-08	6.51E-07
2036	257808.19	4085194.8	4.1237E-07	5.51E-06	9.62E-07	9.62E-07	5.36E-07	8.38E-06	6.26E-08	8.39E-07	1.50E-07	1.50E-07	8.26E-08	1.28E-06	3.40E-08	4.54E-07	6.68E-08	6.68E-08	3.31E-08	6.55E-07
2037	257832.47	4085193.72	4.1408E-07	5.53E-06	9.66E-07	9.66E-07	5.39E-07	8.42E-06	6.28E-08	8.43E-07	1.51E-07	1.51E-07	8.29E-08	1.29E-06	3.41E-08	4.56E-07	6.71E-08	6.71E-08	3.32E-08	6.58E-07
2038	257856.75	4085192.65	4.1515E-07	5.55E-06	9.69E-07	9.69E-07	5.40E-07	8.44E-06	6.30E-08	8.45E-07	1.51E-07	1.51E-07	8.31E-08	1.29E-06	3.42E-08	4.57E-07	6.73E-08	6.73E-08	3.33E-08	6.59E-07
2039	257881.04	4085191.57	4.157E-07	5.55E-06	9.70E-07	9.70E-07	5.41E-07	8.45E-06	6.31E-08	8.46E-07	1.51E-07	1.51E-07	8.33E-08	1.30E-06	3.43E-08	4.58E-07	6.74E-08	6.74E-08	3.33E-08	6.60E-07
2040	257905.32	4085190.49	4.157E-07	5.55E-06	9.70E-07	9.70E-07	5.41E-07	8.45E-06	6.31E-08	8.46E-07	1.51E-07	1.51E-07	8.33E-08	1.30E-06	3.43E-08	4.58E-07	6.74E-08	6.74E-08	3.33E-08	6.60E-07
2041	257929.6	4085189.42	4.1511E-07	5.54E-06	9.68E-07	9.68E-07	5.40E-07	8.44E-06	6.30E-08	8.45E-07	1.51E-07	1.51E-07	8.31E-08	1.29E-06	3.42E-08	4.57E-07	6.73E-08	6.73E-08	3.33E-08	6.59E-07
2042	257953.88	4085188.34	4.1404E-07	5.53E-06	9.66E-07	9.66E-07	5.39E-07	8.42E-06	6.28E-08	8.43E-07	1.51E-07	1.51E-07	8.29E-08	1.29E-06	3.41E-08	4.56E-07	6.71E-08	6.71E-08	3.32E-08	6.57E-07
2043	257978.16	4085187.27	4.0728E-07	5.44E-06	9.50E-07	9.50E-07	5.30E-07	8.28E-06	6.18E-08	8.29E-07	1.48E-07	1.48E-07	8.16E-08	1.27E-06	3.36E-08	4.48E-07	6.60E-08	6.60E-08	3.27E-08	6.47E-07
2044	258002.45	4085186.19	4.0496E-07	5.41E-06	9.45E-07	9.45E-07	5.27E-07	8.23E-06	6.15E-08	8.24E-07	1.48E-07	1.48E-07	8.11E-08	1.26E-06	3.34E-08	4.46E-07	6.56E-08	6.56E-08	3.25E-08	6.43E-07
2045	258026.73	4085185.12	4.0203E-07	5.37E-06	9.38E-07	9.38E-07	5.23E-07	8.17E-06	6.10E-08	8.18E-07	1.46E-07	1.46E-07	8.05E-08	1.25E-06	3.31E-08	4.43E-07	6.52E-08	6.52E-08	3.23E-08	6.38E-07
2046	258051.01	4085184.04	3.9834E-07	5.32E-06	9.29E-07	9.29E-07	5.18E-07	8.10E-06	6.05E-08	8.11E-07	1.45E-07	1.45E-07	7.98E-08	1.24E-06	3.28E-08	4.39E-07	6.46E-08	6.46E-08	3.20E-08	6.33E-07
2047	258075.29	4085182.97	3.9366E-07	5.26E-06	9.18E-07	9.18E-07	5.12E-07	8.00E-06	5.97E-08	8.01E-07	1.43E-07	1.43E-07	7.88E-08	1.23E-06	3.24E-08	4.33E-07	6.38E-08	6.38E-08	3.16E-08	6.25E-07
2048	258099.57	4085181.89	3.8791E-07	5.18E-06	9.05E-07	9.05E-07	5.05E-07	7.88E-06	5.89E-08	7.89E-07	1.41E-07	1.41E-07	7.77E-08	1.21E-06	3.20E-08	4.27E-07	6.29E-08	6.29E-08	3.11E-08	6.16E-07
2049	258123.85	4085180.82	3.8077E-07	5.09E-06	8.88E-07	8.88E-07	4.95E-07	7.74E-06	5.78E-08	7.75E-07	1.39E-07	1.39E-07	7.63E-08	1.19E-06	3.14E-08	4.19E-07	6.17E-08	6.17E-08	3.05E-08	6.05E-07
2050	258148.14	4085179.74	3.7202E-07	4.97E-06	8.68E-07	8.68E-07	4.84E-07	7.56E-06	5.65E-08	7.57E-07	1.36E-07	1.36E-07	7.45E-08	1.16E-06	3.07E-08	4.10E-07	6.03E-08	6.03E-08	2.98E-08	5.91E-07
2051	258172.42	4085178.66	3.612E-07	4.82E-06	8.43E-07	8.43E-07	4.70E-07	7.34E-06	5.48E-08	7.35E-07	1.32E-07	1.32E-07	7.23E-08	1.13E-06	2.98E-08	3.98E-07	5.85E-08	5.85E-08	2.90E-08	5.74E-07
2052	258196.7	4085177.59	3.4772E-07	4.64E-06	8.11E-07	8.11E-07	4.52E-07	7.07E-06	5.28E-08	7.08E-07	1.27E-07	1.27E-07	6.96E-08	1.08E-06	2.87E-08	3.83E-07	5.64E-08	5.64E-08	2.79E-08	5.52E-07
2053	258220.98	4085176.51	3.3094E-07	4.42E-06	7.72E-07	7.72E-07	4.30E-07	6.73E-06	5.02E-08	6.73E-07	1.21E-07	1.21E-07	6.63E-08	1.03E-06	2.73E-08	3.64E-07	5.36E-08	5.36E-08	2.65E-08	5.25E-07
2054	258245.26	4085175.44	3.0986E-07	4.14E-06	7.23E-07	7.23E-07	4.03E-07	6.30E-06	4.70E-08	6.31E-07	1.13E-07	1.13E-07	6.21E-08	9.65E-07	2.55E-08	3.41E-07	5.02E-08	5.02E-08	2.49E-08	4.92E-07
2055	258269.55	4085174.36	2.8367E-07	3.79E-06	6.62E-07	6.62E-07	3.69E-07	5.77E-06	4.31E-08	5.77E-07	1.03E-07	1.03E-07	5.68E-08	8.84E-07	2.34E-08	3.12E-07	4.60E-08	4.60E-08	2.28E-08	4.50E-07
2056	258293.83	4085173.29	2.516E-07	3.36E-06	5.87E-07	5.87E-07	3.27E-07	5.11E-06	3.82E-08	5.12E-07	9.17E-08	9.17E-08	5.04E-08	7.84E-07	2.07E-08	2.77E-07	4.08E-08	4.08E-08	2.02E-08	4.00E-07
2057	258318.11	4085172.21	2.1388E-07	2.86E-06	4.99E-07	4.99E-07	2.78E-07	4.35E-06	3.25E-08	4.35E-07	7.79E-08	7.79E-08	4.28E-08	6.66E-07	1.76E-08	2.35E-07	3.47E-08	3.47E-08	1.72E-08	3.40E-07
2058	258342.39	4085171.14	1.7354E-07	2.32E-06	4.05E-07	4.05E-07	2.26E-07	3.53E-06	2.63E-08	3.53E-07	6.32E-08	6.32E-08	3.48E-08	5.41E-07	1.43E-08	1.91E-07	2.81E-08	2.81E-08	1.39E-08	2.76E-07
2059	257548.43	4085223.93	2.243E-07	3.00E-06	5.23E-07	5.23E-07	2.92E-07	4.56E-06	3.40E-08	4.56E-07	8.17E-08	8.17E-08	4.49E-08	6.99E-07	1.85E-08	2.47E-07	3.64E-08	3.64E-08	1.80E-08	3.56E-07
2060	257504.29	4085193.29	2.0105E-07	2.69E-06	4.69E-07	4.69E-07	2.62E-07	4.09E-06	3.05E-08	4.09E-07	7.32E-08	7.32E-08	4.03E-08	6.26E-07	1.66E-08	2.21E-07	3.26E-08	3.26E-08	1.61E-08	3.19E-07
2061	257590.76	4085229.45	2.4896E-07	3.33E-06	5.81E-07	5.81E-07	3.24E-07	5.06E-06	3.78E-08	5.07E-07	9.07E-08	9.07E-08	4.99E-08	7.76E-07	2.05E-08	2.74E-07	4.04E-08	4.04E-08	2.00E-08	3.95E-07
2062	257615.04	4085228.38	2.6447E-07	3.53E-06	6.17E-07	6.17E-07	3.44E-07	5.38E-06	4.01E-08	5.38E-07	9.63E-08	9.63E-08	5.30E-08	8.24E-07	2.18E-08	2.91E-07	4.29E-08	4.29E-08	2.12E-08	4.20E-07
2063	257639.32	4085227.3	2.7633E-07	3.69E-06	6.45E-07	6.45E-07	3.59E-07	5.62E-06	4.19E-08	5.62E-07	1.01E-07	1.01E-07	5.53E-08	8.61E-07	2.28E-08	3.04E-07	4.48E-08	4.48E-08	2.22E-08	4.39E-07
2064	257663.61	4085226.22	2.8537E-07	3.81E-06	6.66E-07	6.66E-07	3.71E-07	5.80E-06	4.33E-08	5.81E-07	1.04E-07	1.04E-07	5.72E-08	8.89E-07	2.35E-08	3.14E-07	4.63E-08	4.63E-08	2.29E-08	4.53E-07
2065	257687.89	4085225.15	2.9227E-07	3.90E-06	6.82E-07	6.82E-07	3.80E-07	5.94E-06	4.44E-08	5.95E-07	1.06E-07	1.06E-07	5.85E-08	9.11E-07	2.41E-08	3.22E-07	4.74E-08	4.74E-08	2.34E-08	4.64E-07
2066	257712.17	4085224.07	2.9762E-07	3.98E-06	6.94E-07	6.94E-07	3.87E-07	6.05E-06	4.52E-08	6.06E-07	1.08E-07	1.08E-07	5.96E-08	9.27E-07	2.45E-08	3.28E-07	4.82E-08	4.82E-08	2.39E-08	4.73E-07
2067	257736.45	4085223	3.0174E-07	4.03E-06	7.04E-07	7.04E-07	3.92E-07	6.13E-06	4.58E-08	6.14E-07	1.10E-07	1.10E-07	6.04E-08	9.40E-07	2.49E-08	3.32E-07	4.89E-08	4.89E-08	2.42E-08	4.79E-07
2068	257760.73	4085221.92	3.0497E-07	4.07E-06	7.12E-07	7.12E-07	3.97E-07	6.20E-06	4.63E-08	6.21E-07	1.11E-07	1.11E-07	6.11E-08	9.50E-07	2.51E-08	3.36E-07	4.94E-08	4.94E-08	2.45E-08	4.84E-07
2069	257785.01	4085220.85	3.0741E-07	4.11E-06	7.17E-07	7.17E-07	4.00E-07	6.25E-06	4.67E-08	6.26E-07	1.12E-07	1.12E-07	6.16E-08	9.58E-07	2.53E-08	3.38E-07	4.98E-08	4.98E-08	2.47E-08	4.88E-07
2070	257809.3	4085219.77	3.0923E-07	4.13E-06	7.21E-07	7.21E-07	4.02E-07	6.28E-06	4.69E-08	6.29E-07	1.13E-07	1.13E-07	6.19E-08	9.63E-07	2.55E-08	3.40E-07	5.01E-08	5.01E-08	2.48E-08	4.91E-07
2071	257833.58	4085218.7	3.1045E-07	4.15E-06	7.24E-07	7.24E-07	4.04E-07	6.31E-06	4.71E-08	6.32E-07	1.13E-07	1.13E-07	6.22E-08	9.67E-07	2.56E-08	3.42E-07	5.03E-08	5.03E-08	2.49E-08	4.93E-07
2072	257857.86	4085217.62	3.1121E-07	4.16E-06	7.26E-07	7.26E-07	4.05E-07	6.33E-06	4.72E-08	6.33E-07	1.13E-07	1.13E-07	6.23E-08	9.70E-07	2.57E-08	3.43E-07	5.04E-08	5.04E-08	2.50E-08	4.94E-07
2073	257882.14	4085216.55	3.1144E-07	4.16E-06	7.27E-07	7.27E-07	4.05E-07	6.33E-06	4.73E-08	6.34E-07	1.13E-07	1.13E-07	6.24E-08	9.70E-07	2.57E-08	3.43E-07	5.05E-08	5.05E-08	2.50E-08	4.95E-07
2074	257906.42	4085215.47	3.1005E-07	4.14E-06	7.23E-07	7.23E-07	4.03E-07	6.30E-06	4.71E-08	6.31E-07	1.13E-07	1.13E-07	6.21E-08	9.66E-07	2.56E-08	3.41E-07	5.03E-08	5.03E-08	2.49E-08	4.92E-07
2075	257930.71	4085214.39	3.0721E-07	4.10E-06	7.17E-07	7.17E-07	4.00E-07	6.24E-06	4.66E-08	6.25E-07	1.12E-07	1.12E-07	6.15E-08	9.57E-07	2.53E-08	3.38E-07	4.98E-08	4.98E-08	2.46E-08	4.88E-07
2076	257954.99	4085213.32	3.0596E-07	4.09E-06	7.14E-07	7.14E-07	3.98E-07	6.22E-06	4.64E-08	6.23E-07	1.11E-07	1.11E-07	6.13E-08	9.53E-07	2.52E-08	3.37E-07	4.96E-08	4.96E-08	2.45E-08	4.86E-07
2077	257979.27	4085212.24	3.0419E-07	4.06E-06	7.10E-07	7.10E-07	3.96E-07	6.18E-06	4.62E-08	6.19E-07	1.11E-07	1.11E-07	6.09E-08	9.48E-07	2.51E-08	3.35E-07	4.93E-08	4.93E-08	2.44E-08	4.83E-07
2078	258003.55	4085211.17	3.0179E-07	4.03E-06	7.04E-07	7.04E-07	3.93E-07	6.13E-06	4.58E-08	6.14E-07	1.10E-07	1.10E-07	6.04E-08	9.40E-07	2.49E-08	3.32E-07	4.89E-08	4.89E-08	2.42E-08	4.79E-07
2079	258027.83	4085210.09	2.9875E-07	3.99E-06	6.97E-07	6.97E-07	3.89E-07	6.07E-06	4.53E-08	6.08E-07	1.09E-07	1.09E-07	5.98E-08	9.31E-07	2.46E-08	3.29E-07	4.84E-08	4.84E-08	2.40E-08	4.74E-07
2080	258052.11	4085209.02	2.9491E-07	3.94E-06	6.88E-07	6.88E-07	3.84E-07	5.99E-06	4.48E-08	6.00E-07	1.07E-07	1.07E-07	5.91E-08	9.19E-07	2.43E-08	3.25E-07	4.78E-08	4.78E-08	2.37E-08	4.68E-07
2081	258076.4	4085207.94	2.9023E-07	3.88E-06	6.77E-07	6.77E-07	3.78E-07	5.90E-06	4.40E-08	5.91E-07	1.06E-07	1.06E-07	5.81E-08	9.04E-07	2.39E-08	3.20E-07	4.70E-08	4.70E-08	2.33E-08	4.61E-07
2082	258100.68	4085206.87	2.8449E-07	3.80E-06	6.64E-07	6.64E-07	3.70E-07	5.78E-06	4.32E-08	5.79E-07	1.04E-07	1.04E-07	5.70E-08	8.86E-07	2.35E-08	3.13E-07	4.61E-08	4.61E-08	2.28E-08	4.52E-07
2083	258124.96	4085205.79	2.7759E-07	3.71E-06	6.48E-07	6.48E-07	3.61E-07	5.64E-06	4.21E-08	5.65E-07	1.01E-07	1.01E-07	5.56E-08	8.65E-07	2.29E-08	3.06E-07	4.50E-08	4.50E-08	2.23E-08	4.41E-07
2084	258149.24	4085204.72	2.6925E-07	3.60E-06	6.28E-07	6.28E-07	3.50E-07	5.47E-06	4.09E-08	5.48E-07	9.81E-08	9.81E-08	5.39E-08	8.39E-07	2.22E-08	2.96E-07	4.36E-08	4.36E-08	2.16E-08	4.28E-07
2085	258173.52	4085203.64	2.5924E-07	3.46E-06	6.05E-07	6.05E-07	3.37E-07	5.27E-06	3.93E-08	5.28E-07	9.44E-08	9.44E-08	5.19E-08	8.08E-07	2.14E-08	2.85E-07	4.20E-08	4.20E-08	2.08E-08	4.12E-07
2086	258197.81	4085202.56	2.4717E-07	3.30E-06	5.77E-07	5.77E-07	3.22E-07	5.02E-06	3.75E-08	5.03E-07	9.00E-08	9.00E-08	4.95E-08	7.70E-07	2.04E-08	2.72E-07	4.01E-08	4.01E-08	1.98E-08	3.92E-07
2087	258222.09	4085201.49	2.3269E-07	3.11E-06	5.43E-07	5.43E-07	3.03E-07	4.73E-06	3.53E-08	4.74E-07	8.48E-08	8.48E-08	4.66E-08	7.25E-07	1.92E-08	2.56E-07	3.77E-08	3.77E-08	1.87E-08	3.69E-07

2088	258246.37	4085200.41	2.1555E-07	2.88E-06	5.03E-07	5.03E-07	2.80E-07	4.38E-06	3.27E-08	4.39E-07	7.85E-08	7.85E-08	4.32E-08	6.72E-07	1.78E-08	2.37E-07	3.49E-08	3.49E-08	1.73E-08	3.42E-07
2089	258270.65	4085199.34	1.956E-07	2.61E-06	4.56E-07	4.56E-07	2.54E-07	3.98E-06	2.97E-08	3.98E-07	7.13E-08	7.13E-08	3.92E-08	6.09E-07	1.61E-08	2.15E-07	3.17E-08	3.17E-08	1.57E-08	3.11E-07
2090	258294.93	4085198.26	1.7309E-07	2.31E-06	4.04E-07	4.04E-07	2.25E-07	3.52E-06	2.63E-08	3.52E-07	6.31E-08	6.31E-08	3.47E-08	5.39E-07	1.43E-08	1.91E-07	2.81E-08	2.81E-08	1.39E-08	2.75E-07
2091	258319.21	4085197.19	1.4894E-07	1.99E-06	3.47E-07	3.47E-07	1.94E-07	3.03E-06	2.26E-08	3.03E-07	5.43E-08	5.43E-08	2.98E-08	4.64E-07	1.23E-08	1.64E-07	2.41E-08	2.41E-08	1.19E-08	2.36E-07
2092	258343.5	4085196.11	1.2506E-07	1.67E-06	2.92E-07	2.92E-07	1.63E-07	2.54E-06	1.90E-08	2.54E-07	4.56E-08	4.56E-08	2.50E-08	3.90E-07	1.03E-08	1.38E-07	2.03E-08	2.03E-08	1.00E-08	1.99E-07
2093	258367.78	4085195.04	1.037E-07	1.39E-06	2.42E-07	2.42E-07	1.35E-07	2.11E-06	1.57E-08	2.11E-07	3.78E-08	3.78E-08	2.08E-08	3.23E-07	8.55E-09	1.14E-07	1.68E-08	1.68E-08	8.32E-09	1.65E-07
2094	257549.53	4085248.91	1.8512E-07	2.47E-06	4.32E-07	4.32E-07	2.41E-07	3.76E-06	2.81E-08	3.77E-07	6.74E-08	6.74E-08	3.71E-08	5.77E-07	1.53E-08	2.04E-07	3.00E-08	3.00E-08	1.49E-08	2.94E-07
2095	257513.43	4085235.72	1.7103E-07	2.28E-06	3.99E-07	3.99E-07	2.22E-07	3.48E-06	2.60E-08	3.48E-07	6.23E-08	6.23E-08	3.43E-08	5.33E-07	1.41E-08	1.88E-07	2.77E-08	2.77E-08	1.37E-08	2.72E-07
2096	257487.34	4085211.67	1.6171E-07	2.16E-06	3.77E-07	3.77E-07	2.10E-07	3.29E-06	2.45E-08	3.29E-07	5.89E-08	5.89E-08	3.24E-08	5.04E-07	1.33E-08	1.78E-07	2.62E-08	2.62E-08	1.30E-08	2.57E-07
2097	257471.27	4085176.76	1.5081E-07	2.01E-06	3.52E-07	3.52E-07	1.96E-07	3.07E-06	2.29E-08	3.07E-07	5.49E-08	5.49E-08	3.02E-08	4.70E-07	1.24E-08	1.66E-07	2.44E-08	2.44E-08	1.21E-08	2.39E-07
2098	257591.87	4085254.43	2.0049E-07	2.68E-06	4.68E-07	4.68E-07	2.61E-07	4.07E-06	3.04E-08	4.08E-07	7.30E-08	7.30E-08	4.02E-08	6.25E-07	1.65E-08	2.21E-07	3.25E-08	3.25E-08	1.61E-08	3.18E-07
2099	257616.15	4085253.35	2.1117E-07	2.82E-06	4.93E-07	4.93E-07	2.75E-07	4.29E-06	3.20E-08	4.30E-07	7.69E-08	7.69E-08	4.23E-08	6.58E-07	1.74E-08	2.33E-07	3.42E-08	3.42E-08	1.69E-08	3.35E-07
2100	257640.43	4085252.28	2.197E-07	2.93E-06	5.13E-07	5.13E-07	2.86E-07	4.47E-06	3.33E-08	4.47E-07	8.00E-08	8.00E-08	4.40E-08	6.84E-07	1.81E-08	2.42E-07	3.56E-08	3.56E-08	1.76E-08	3.49E-07
2101	257664.71	4085251.2	2.2649E-07	3.03E-06	5.28E-07	5.28E-07	2.95E-07	4.60E-06	3.44E-08	4.61E-07	8.25E-08	8.25E-08	4.54E-08	7.06E-07	1.87E-08	2.49E-07	3.67E-08	3.67E-08	1.82E-08	3.60E-07
2102	257688.99	4085250.12	2.3184E-07	3.10E-06	5.41E-07	5.41E-07	3.02E-07	4.71E-06	3.52E-08	4.72E-07	8.45E-08	8.45E-08	4.64E-08	7.22E-07	1.91E-08	2.55E-07	3.76E-08	3.76E-08	1.86E-08	3.68E-07
2103	257713.28	4085249.05	2.3599E-07	3.15E-06	5.51E-07	5.51E-07	3.07E-07	4.80E-06	3.58E-08	4.80E-07	8.60E-08	8.60E-08	4.73E-08	7.35E-07	1.95E-08	2.60E-07	3.82E-08	3.82E-08	1.89E-08	3.75E-07
2104	257737.56	4085247.97	2.3924E-07	3.20E-06	5.58E-07	5.58E-07	3.11E-07	4.86E-06	3.63E-08	4.87E-07	8.71E-08	8.71E-08	4.79E-08	7.45E-07	1.97E-08	2.63E-07	3.88E-08	3.88E-08	1.92E-08	3.80E-07
2105	257761.84	4085246.9	2.4171E-07	3.23E-06	5.64E-07	5.64E-07	3.14E-07	4.91E-06	3.67E-08	4.92E-07	8.80E-08	8.80E-08	4.84E-08	7.53E-07	1.99E-08	2.66E-07	3.92E-08	3.92E-08	1.94E-08	3.84E-07
2106	257786.12	4085245.82	2.4357E-07	3.25E-06	5.68E-07	5.68E-07	3.17E-07	4.95E-06	3.70E-08	4.96E-07	8.87E-08	8.87E-08	4.88E-08	7.59E-07	2.01E-08	2.68E-07	3.95E-08	3.95E-08	1.95E-08	3.87E-07
2107	257810.4	4085244.75	2.4487E-07	3.27E-06	5.71E-07	5.71E-07	3.19E-07	4.98E-06	3.72E-08	4.98E-07	8.92E-08	8.92E-08	4.90E-08	7.63E-07	2.02E-08	2.70E-07	3.97E-08	3.97E-08	1.96E-08	3.89E-07
2108	257834.68	4085243.67	2.4571E-07	3.28E-06	5.73E-07	5.73E-07	3.20E-07	4.99E-06	3.73E-08	5.00E-07	8.95E-08	8.95E-08	4.92E-08	7.66E-07	2.03E-08	2.71E-07	3.98E-08	3.98E-08	1.97E-08	3.90E-07
2109	257858.97	4085242.6	2.4605E-07	3.29E-06	5.74E-07	5.74E-07	3.20E-07	5.00E-06	3.73E-08	5.01E-07	8.96E-08	8.96E-08	4.93E-08	7.67E-07	2.03E-08	2.71E-07	3.99E-08	3.99E-08	1.97E-08	3.91E-07
2110	257883.25	4085241.52	2.4439E-07	3.26E-06	5.70E-07	5.70E-07	3.18E-07	4.97E-06	3.71E-08	4.97E-07	8.90E-08	8.90E-08	4.89E-08	7.61E-07	2.01E-08	2.69E-07	3.96E-08	3.96E-08	1.96E-08	3.88E-07
2111	257907.53	4085240.45	2.4308E-07	3.25E-06	5.67E-07	5.67E-07	3.16E-07	4.94E-06	3.69E-08	4.95E-07	8.85E-08	8.85E-08	4.87E-08	7.57E-07	2.00E-08	2.68E-07	3.94E-08	3.94E-08	1.95E-08	3.86E-07
2112	257931.81	4085239.37	2.421E-07	3.23E-06	5.65E-07	5.65E-07	3.15E-07	4.92E-06	3.67E-08	4.93E-07	8.82E-08	8.82E-08	4.85E-08	7.54E-07	2.00E-08	2.67E-07	3.92E-08	3.92E-08	1.94E-08	3.84E-07
2113	257956.09	4085238.29	2.4065E-07	3.21E-06	5.61E-07	5.61E-07	3.13E-07	4.89E-06	3.65E-08	4.90E-07	8.77E-08	8.77E-08	4.82E-08	7.50E-07	1.98E-08	2.65E-07	3.90E-08	3.90E-08	1.93E-08	3.82E-07
2114	257980.38	4085237.22	2.3866E-07	3.19E-06	5.57E-07	5.57E-07	3.10E-07	4.85E-06	3.62E-08	4.86E-07	8.69E-08	8.69E-08	4.78E-08	7.44E-07	1.97E-08	2.63E-07	3.87E-08	3.87E-08	1.91E-08	3.79E-07
2115	258004.66	4085236.14	2.3613E-07	3.15E-06	5.51E-07	5.51E-07	3.07E-07	4.80E-06	3.58E-08	4.80E-07	8.60E-08	8.60E-08	4.73E-08	7.36E-07	1.95E-08	2.60E-07	3.83E-08	3.83E-08	1.89E-08	3.75E-07
2116	258028.94	4085235.07	2.3295E-07	3.11E-06	5.43E-07	5.43E-07	3.03E-07	4.73E-06	3.54E-08	4.74E-07	8.49E-08	8.49E-08	4.67E-08	7.26E-07	1.92E-08	2.56E-07	3.78E-08	3.78E-08	1.87E-08	3.70E-07
2117	258053.22	4085233.99	2.2911E-07	3.06E-06	5.35E-07	5.35E-07	2.98E-07	4.66E-06	3.48E-08	4.66E-07	8.35E-08	8.35E-08	4.59E-08	7.14E-07	1.89E-08	2.52E-07	3.71E-08	3.71E-08	1.84E-08	3.64E-07
2118	258077.5	4085232.92	2.2447E-07	3.00E-06	5.24E-07	5.24E-07	2.92E-07	4.56E-06	3.41E-08	4.57E-07	8.18E-08	8.18E-08	4.50E-08	6.99E-07	1.85E-08	2.47E-07	3.64E-08	3.64E-08	1.80E-08	3.56E-07
2119	258101.78	4085231.84	2.1899E-07	2.93E-06	5.11E-07	5.11E-07	2.85E-07	4.45E-06	3.32E-08	4.46E-07	7.98E-08	7.98E-08	4.39E-08	6.82E-07	1.81E-08	2.41E-07	3.55E-08	3.55E-08	1.76E-08	3.48E-07
2120	258126.07	4085230.77	2.1248E-07	2.84E-06	4.96E-07	4.96E-07	2.76E-07	4.32E-06	3.22E-08	4.32E-07	7.74E-08	7.74E-08	4.26E-08	6.62E-07	1.75E-08	2.34E-07	3.44E-08	3.44E-08	1.70E-08	3.37E-07
2121	258150.35	4085229.69	2.0485E-07	2.74E-06	4.78E-07	4.78E-07	2.66E-07	4.16E-06	3.11E-08	4.17E-07	7.46E-08	7.46E-08	4.10E-08	6.38E-07	1.69E-08	2.26E-07	3.32E-08	3.32E-08	1.64E-08	3.25E-07
2122	258174.63	4085228.62	1.959E-07	2.62E-06	4.57E-07	4.57E-07	2.55E-07	3.98E-06	2.97E-08	3.99E-07	7.14E-08	7.14E-08	3.92E-08	6.10E-07	1.61E-08	2.16E-07	3.18E-08	3.18E-08	1.57E-08	3.11E-07
2123	258198.91	4085227.54	1.855E-07	2.48E-06	4.33E-07	4.33E-07	2.41E-07	3.77E-06	2.82E-08	3.77E-07	6.76E-08	6.76E-08	3.72E-08	5.78E-07	1.53E-08	2.04E-07	3.01E-08	3.01E-08	1.49E-08	2.95E-07
2124	258223.19	4085226.46	1.7352E-07	2.32E-06	4.05E-07	4.05E-07	2.26E-07	3.53E-06	2.63E-08	3.53E-07	6.32E-08	6.32E-08	3.48E-08	5.41E-07	1.43E-08	1.91E-07	2.81E-08	2.81E-08	1.39E-08	2.76E-07
2125	258247.48	4085225.39	1.5992E-07	2.14E-06	3.73E-07	3.73E-07	2.08E-07	3.25E-06	2.43E-08	3.25E-07	5.83E-08	5.83E-08	3.20E-08	4.98E-07	1.32E-08	1.76E-07	2.59E-08	2.59E-08	1.28E-08	2.54E-07
2126	258271.76	4085224.31	1.4489E-07	1.94E-06	3.38E-07	3.38E-07	1.88E-07	2.94E-06	2.20E-08	2.95E-07	5.28E-08	5.28E-08	2.90E-08	4.51E-07	1.19E-08	1.60E-07	2.35E-08	2.35E-08	1.16E-08	2.30E-07
2127	258296.04	4085223.24	1.2881E-07	1.72E-06	3.01E-07	3.01E-07	1.68E-07	2.62E-06	1.95E-08	2.62E-07	4.69E-08	4.69E-08	2.58E-08	4.01E-07	1.06E-08	1.42E-07	2.09E-08	2.09E-08	1.03E-08	2.05E-07
2128	258320.32	4085222.16	1.1252E-07	1.50E-06	2.63E-07	2.63E-07	1.46E-07	2.29E-06	1.71E-08	2.29E-07	4.10E-08	4.10E-08	2.25E-08	3.51E-07	9.27E-09	1.24E-07	1.82E-08	1.82E-08	9.03E-09	1.79E-07
2129	258344.6	4085221.09	9.6796E-08	1.29E-06	2.26E-07	2.26E-07	1.26E-07	1.97E-06	1.47E-08	1.97E-07	3.53E-08	3.53E-08	1.94E-08	3.02E-07	7.98E-09	1.07E-07	1.57E-08	1.57E-08	7.77E-09	1.54E-07
2130	257548.14	4085297.54	1.3521E-07	1.81E-06	3.15E-07	3.15E-07	1.76E-07	2.75E-06	2.05E-08	2.75E-07	4.93E-08	4.93E-08	2.71E-08	4.21E-07	1.11E-08	1.49E-07	2.19E-08	2.19E-08	1.08E-08	2.15E-07
2131	257526.47	4085289.63	1.328E-07	1.77E-06	3.10E-07	3.10E-07	1.73E-07	2.70E-06	2.02E-08	2.70E-07	4.84E-08	4.84E-08	2.66E-08	4.14E-07	1.09E-08	1.46E-07	2.15E-08	2.15E-08	1.07E-08	2.11E-07
2132	257504.81	4085281.71	1.284E-07	1.72E-06	3.00E-07	3.00E-07	1.67E-07	2.61E-06	1.95E-08	2.61E-07	4.68E-08	4.68E-08	2.57E-08	4.00E-07	1.06E-08	1.41E-07	2.08E-08	2.08E-08	1.03E-08	2.04E-07
2133	257483.15	4085273.8	1.2176E-07	1.63E-06	2.84E-07	2.84E-07	1.58E-07	2.47E-06	1.85E-08	2.48E-07	4.44E-08	4.44E-08	2.44E-08	3.79E-07	1.00E-08	1.34E-07	1.97E-08	1.97E-08	9.77E-09	1.93E-07
2134	257451.85	4085244.94	1.145E-07	1.53E-06	2.67E-07	2.67E-07	1.49E-07	2.33E-06	1.74E-08	2.33E-07	4.17E-08	4.17E-08	2.29E-08	3.57E-07	9.44E-09	1.26E-07	1.86E-08	1.86E-08	9.19E-09	1.82E-07
2135	257442.2	4085223.99	1.1235E-07	1.50E-06	2.62E-07	2.62E-07	1.46E-07	2.28E-06	1.71E-08	2.29E-07	4.09E-08	4.09E-08	2.25E-08	3.50E-07	9.26E-09	1.24E-07	1.82E-08	1.82E-08	9.01E-09	1.78E-07
2136	257432.55	4085203.05	1.0635E-07	1.42E-06	2.48E-07	2.48E-07	1.38E-07	2.16E-06	1.61E-08	2.16E-07	3.87E-08	3.87E-08	2.13E-08	3.31E-07	8.77E-09	1.17E-07	1.72E-08	1.72E-08	8.53E-09	1.69E-07
2137	257422.91	4085182.1	9.7447E-08	1.30E-06	2.27E-07	2.27E-07	1.27E-07	1.98E-06	1.48E-08	1.98E-07	3.55E-08	3.55E-08	1.95E-08	3.04E-07	8.03E-09	1.07E-07	1.58E-08	1.58E-08	7.82E-09	1.55E-07
2138	257569.8	4085305.45	1.3581E-07	1.81E-06	3.17E-07	3.17E-07	1.77E-07	2.76E-06	2.06E-08	2.76E-07	4.95E-08	4.95E-08	2.72E-08	4.23E-07	1.12E-08	1.50E-07	2.20E-08	2.20E-08	1.09E-08	2.16E-07
2139	257594.08	4085304.38	1.4274E-07	1.91E-06	3.33E-07	3.33E-07	1.86E-07	2.90E-06	2.17E-08	2.90E-07	5.20E-08	5.20E-08	2.86E-08	4.45E-07	1.18E-08	1.57E-07	2.31E-08	2.31E-08	1.15E-08	2.27E-07
2140	257618.36	4085303.3	1.4851E-07	1.98E-06	3.46E-07	3.46E-07	1.93E-07	3.02E-06	2.25E-08	3.02E-07	5.41E-08	5.41E-08	2.97E-08	4.63E-07	1.22E-08	1.64E-07	2.41E-08	2.41E-08	1.19E-08	2.36E-07
2141	257642.64	4085302.23	1.5328E-07	2.05E-06	3.58E-07	3.58E-07	1.99E-07	3.12E-06	2.33E-08	3.12E-07	5.58E-08	5.58E-08	3.07E-08	4.78E-07	1.26E-08	1.69E-07	2.48E-08	2.48E-08	1.23E-08	2.43E-07
2142	257666.92	4085301.15	1.5726E-07	2.10E-06	3.67E-07	3.67E-07	2.05E-07	3.20E-06	2.39E-08	3.20E-07	5.73E-08	5.73E-08	3.15E-08	4.90E-07	1.30E-08	1.73E-07	2.55E-08	2.55E-08	1.26E-08	2.50E-07
2143	257691.21	4085300.08	1.6051E-07	2.14E-06	3.74E-07	3.74E-07	2.09E-07	3.26E-06	2.44E-08	3.27E-07	5.85E-08	5.85E-08	3.21E-08	5.00E-07	1.32E-08	1.77E-07	2.60E-08	2.60E-08	1.29E-08	2.55E-07
2144	257715.49	4085299	1.6307E-07	2.18E-06	3.80E-07	3.80E-07	2.12E-07	3.31E-06	2.47E-08	3.32E-07	5.94E-08	5.94E-08	3.27E-08	5.08E-07	1.34E-08	1.80E-07	2.64E-08	2.64E-08	1.31E-08	2.59E-07
2145	257739.77	4085297.92	1.6501E-07	2.20E-06	3.85E-07	3.85E-07	2.15E-07	3.35E-06	2.50E-08	3.36E-07	6.01E-08	6.01E-08	3.30E-08	5.14E-07	1.36E-08	1.82E-07	2.67E-08	2.67E-08	1.32E-08	2.62E-07
2146	257764.05	4085296.85	1.6639E-07	2.22E-06	3.88E-07	3.88E-07	2.16E-07	3.38E-06	2.53E-08	3.39E-07	6.06E-08	6.06E-08	3.33E-08	5.18E-07	1.37E-08	1.83E-07	2.70E-08	2.70E-08	1.33E-08	2.64E-07
2147	257788.33	4085295.77	1.6709E-07	2.23E-06	3.90E-07	3.90E-07	2.17E-07	3.40E-06	2.54E-08	3.40E-07	6.09E-08	6.09E-08	3.35E-08	5.21E-07	1.38E-08	1.84E-07	2.71E-08	2.71E-08	1.34E-08	2.65E-07
2148	257812.62	4085294.7	1.6685E-07	2.23E-06	3.89E-07	3.89E-07	2.17E-07	3.39E-06	2.53E-08	3.40E-07	6.08E-08	6.08E-08	3.34E-08	5.20E-07	1.38E-08	1.84E-07	2.70E-08	2.70E-08	1.34E-08	2.65E-07
2149	257836.9	4085293.62	1.6689E-07	2.23E-06	3.89E-07	3.89E-07	2.17E-07	3.39E-06	2.53E-08	3.40E-07	6.08E-08	6.08E-08	3.34E-08	5.20E-07	1.38E-08	1.84E-07	2.70E-08	2.70E-08	1.34E-08	2.65E-07
2150	257861.18	4085292.55	1.662E-07	2.22E-06	3.88E-07	3.88E-07	2.16E-07	3.38E-06	2.52E-08	3.38E-07	6.05E-08	6.05E-08	3.33E-08	5.18E-07	1.37E-08	1.83E-07	2.69E-08	2.69E-08	1.33E-08	2.64E-07
2151	257885.46	4085291.47	1.6555E-07	2.21E-06	3.86E-07	3.86E-07	2.15E-07	3.36E-06	2.51E-08	3.37E-07	6.03E-08	6.03E-08	3.32E-08	5.16E-07	1.36E-08	1.82E-07	2.68E-08	2.68E-08	1.33E-08	2.63E-07
2152	257909.74	4085290.4	1.6453E-07	2.20E-06	3.84E-07	3.84E-07	2.14E-07	3.34E-06	2.50E-08	3.35E-07	5.99E-08	5.99E-08	3.30E-08	5.13E-07	1.36E-08	1.81E-07	2.67E-08	2.67E-08	1.32E-08	2.61E-07
2153	257934.02	4085289.32	1.6314E-07	2.18E-06	3.81E-07	3.81E-07	2.12E-07	3.32E-06	2.48E-08	3.32E-07	5.94E-08	5.94E-08	3.27E-08	5.08E-07	1.34E-08	1.80E-07	2.64E-08	2.64E-08	1.31E-08	2.59E-07
2154	257958.31	4085288.25	1.6135E-07	2.16E-06	3.76E-07	3.76E-07	2.10E-07	3.28E-06	2.45E-08	3.28E-07	5.88E-08	5.88E-08	3.23E-08	5.03E-07	1.33E-08	1.78E-07	2.62E-08	2.62E-08	1.29E-08	2.56E-07
2155	257982.59	4085287.17	1.5916E-07	2.13E-06	3.71E-07	3.71E-07	2.07E-07	3.23E-06	2.42E-08	3.24E-07	5.80E-08	5.80E-08	3.19E-08	4.96E-07	1.31E-08	1.75E-07	2.58E-08	2.58E-08	1.28E-08	2.53E-07
2156	258006.87	4085286.09	1.5654E-07	2.09E-06	3.65E-07	3.65E-07	2.04E-07	3.18E-06	2.38E-08	3.19E-07	5.70E-08	5.70E-08	3.13E-08	4.88E-07	1.29E-08	1.72E-07	2.54E-08	2.54E-08	1.26E-08	2.49E-07
2157	258031.15	4085285.02	1.5345E-07	2.05E-06	3.58E-07	3.58E-07	2.00E-07	3.12E-06	2.33E-08	3.12E-07	5.59E-08	5.59E-08	3.07E-08	4.78E-07	1.26E-08	1.69E-07	2.49E-08	2.49E-08	1.23E-08	2.44E-07
2158	258055.43	4085283.94	1.4988E-07	2.00E-06	3.50E-07	3.50E-07	1.95E-07	3.05E-06	2.27E-08	3.05E-07	5.46E-08	5.46E-08	3.00E-08	4.67E-07	1.24E-08	1.65E-07	2.43E-08	2.43E-08	1.20E-08	2.38E-07
2159	258079.72	4085282.87	1.4578E-07	1.95E-06	3.40E-07	3.40E-07	1.90E-07	2.96E-06	2.21E-08	2.97E-07	5.31E-08	5.31E-08	2.92E-08	4.54E-07	1.20E-08	1.61E-07	2.36E-08	2.36E-08	1.17E-08	2.31E-07
2160	258104	4085281.79	1.4113E-07	1.89E-06	3.29E-07	3.29E-07	1.84E-07	2.87E-06	2.14E-08	2.87E-07	5.14E-08	5.14E-08	2.83E-08	4.40E-07	1.16E-08	1.55E-07	2.29E-08	2.29E-08	1.13E-08	2.24E-07
2161	258128.28	4085280.72	1.3586E-07	1.81E-06	3.17E-07	3.17E-07	1.77E-07	2.76E-06	2.06E-08	2.76E-07	4.95E-08	4.95E-08	2.72E-08	4.23E-07	1.12E-08	1.50E-07	2.20E-08	2.20E-08	1.09E-08	2.16E-07
2162	258152.56	4085279.64	1.2994E-07	1.74E-06	3.03E-07	3.03E-07	1.69E-07	2.64E-06	1.97E-08	2.64E-07	4.73E-08	4.73E-08	2.60E-08	4.05E-07	1.07E-08	1.43E-07	2.11E-08	2.11E-08	1.04E-08	2.06E-07
2163	258176.84	4085278.57	1.2332E-07	1.65E-06	2.88E-07	2.88E-07	1.60E-07	2.51E-06	1.87E-08	2.51E-07	4.49E-08	4.49E-08	2.47E-08	3.84E-07	1.02E-08	1.36E-07	2.00E-08	2.00E-08	9.89E-09	1.96E-07
2164	258201.12	4085277.49	0.000000116	1.55E-06	2.71E-07	2.71E-07	1.51E-07	2.36E-06	1.76E-08	2.36E-07	4.23E-08	4.23E-08	2.32E-08	3.61E-07	9.56E-09	1.28E-07	1.88E-08	1.88E-08	9.31E-09	1.84E-07
2165	258225.41	4085276.42	0.000000108	1.44E-06	2.52E-07	2.52E-07	1.40E-07	2.20E-06	1.64E-08	2.20E-07	3.93E-08	3.93E-08	2.16E-08	3.36E-07	8.90E-09	1.19E-07	1.75E-08	1.75E-08	8.66E-09	1.71E-07
2166	258249.69	4085275.34	9.9482E-08	1.33E-06	2.32E-07	2.32E-07	1.29E-07	2.02E-06	1.51E-08	2.02E-07	3.62E-08	3.62E-08	1.99E-08	3.10E-07	8.20E-09	1.10E-07	1.61E-08	1.61E-08	7.98E-09	1.58E-07
2167	258273.97	4085274.26	9.0685E-08	1.21E-06	2.12E-07	2.12E-07	1.18E-07	1.84E-06	1.38E-08	1.85E-07	3.30E-08	3.30E-08	1.82E-08	2.83E-07	7.48E-09	9.98E-08	1.47E-08	1.47E-08	7.28E-09	1.44E-07
2168	258298.25	4085273.19	8.1891E-08	1.09E-06	1.91E-07	1.91E-07	1.07E-07	1.66E-06	1.24E-08	1.67E-07	2.98E-08	2.98E-08	1.64E-08	2.55E-07	6.75E-09	9.02E-08	1.33E-08	1.33E-08	6.57E-09	1.30E-07
2169	258322.53	4085272.11	7.3275E-08	9.79E-07	1.71E-07	1.71E-07	9.53E-08	1.49E-06	1.11E-08	1.49E-07	2.67E-08	2.67E-08	1.47E-08	2.28E-07	6.04E-09	8.07E-08	1.19E-08	1.19E-08	5.88E-09	1.16E-07
2170	258346.82	4085271.04	6.5022E-08	8.69E-07	1.52E-07	1.52E-07	8.46E-08	1.32E-06	9.87E-09	1.32E-07	2.37E-08	2.37E-08	1.30E-08	2.03E-07	5.36E-09	7.16E-08	1.05E-08	1.05E-08	5.22E-09	1.03E-07
2171	258371.1	4085269.96	5.753E-08	7.68E-07	1.34E-07	1.34E-07	7.48E-08	1.17E-06	8.73E-09	1.17E-07	2.10E-08	2.10E-08	1.15E-08	1.79E-07	4.74E-09	6.33E-08	9.32E-09	9.32E-09	4.62E-09	9.13E-08
2172	257551.38	4085347.87	1.0497E-07	1.40E-06	2.45E-07	2.45E-07	1.37E-07	2.13E-06	1.59E-08	2.14E-07	3.82E-08	3.82E-08	2.10E-08	3.27E-07	8.65E-09	1.16E-07	1.70E-08	1.70E-08	8.42E-09	1.67E-07
2173	257510.12	4085332.8	1.0283E-07	1.37E-06	2.40E-07	2.40E-07	1.34E-07	2.09E-06	1.56E-08	2.09E-07	3.75E-08	3.75E-08	2.06E-08	3.20E-07	8.48E-09	1.13E-07	1.67E-08	1.67E-08	8.25E-09	1.63E-07
2174	257468.86	4085317.72	9.6807E-08	1.29E-06	2.26E-07	2.26E-07	1.26E-07	1.97E-06	1.47E-08	1.97E-07	3.53E-08	3.53E-08	1.94E-08	3.02E-07	7.98E-09	1.07E-07	1.57E-08	1.57E-08	7.77E-09	1.54E-07
2175	257418.42	4085282.7	8.7383E-08	1.17E-06	2.04E-07	2.04E-07	1.14E-07	1.78E-06	1.33E-08	1.78E-07	3.18E-08	3.18E-08	1.75E-08	2.72E-07	7.20E-09	9.62E-08	1.42E-08	1.42E-08	7.01E-09	1.39E-07
2176	257400.04	4085242.8	8.3672E-08	1.12E-06	1.95E-07	1.95E-07	1.09E-07	1.70E-06	1.27E-08	1.70E-07	3.05E-08	3.05E-08	1.68E-08	2.61E-07	6.90E-09	9.21E-08	1.36E-08	1.36E-08	6.71E-09	1.33E-07
2177	257381.67	4085202.9	7.281E-08	9.73E-07	1.70E-07	1.70E-07	9.47E-08	1.48E-06	1.11E-08	1.48E-07	2.65E-08	2.65E-08	1.46E-08	2.27E-07	6.00E-09	8.02E-08	1.18E-08	1.18E-08	5.84E-09	1.16E-07
2178	257596.29	4085354.33	1.0881E-07	1.45E-06	2.54E-07	2.54E-07	1.42E-07	2.21E-06	1.65E-08	2.21E-07	3.96E-08	3.96E-08	2.18E-08	3.39E-07	8.97E-09	1.20E-07	1.76E-08	1.76E-08	8.73E-09	1.73E-07
2179	257620.57	4085353.25	1.1219E-07	1.50E-06	2.62E-07	2.62E-07	1.46E-07	2.28E-06	1.70E-08	2.28E-07	4.09E-08	4.09E-08	2.25E-08	3.50E-07	9.25E-09	1.24E-07	1.82E-08	1.82E-08	9.00E-09	1.78E-07
2180	257644.85	4085352.18	1.1497E-07	1.54E-06	2.68E-07	2.68E-07	1.50E-07	2.34E-06	1.74E-08	2.34E-07	4.19E-08	4.19E-08	2.30E-08	3.58E-07	9.48E-09	1.27E-07	1.86E-08	1.86E-08	9.22E-09	1.83E-07
2181	257669.14	4085351.1	1.1729E-07	1.57E-06	2.74E-07	2.74E-07	1.53E-07	2.38E-06	1.78E-08	2.39E-07	4.27E-08	4.27E-08	2.35E-08	3.65E-07	9.67E-09	1.29E-07	1.90E-08	1.90E-08	9.41E-09	1.86E-07
2182	257693.42	4085350.03	1.1919E-07	1.59E-06	2.78E-07	2.78E-07	1.55E-07	2.42E-06	1.81E-08	2.43E-07	4.34E-08	4.34E-08	2.39E-08	3.71E-07	9.82E-09	1.31E-07	1.93E-08	1.93E-08	9.56E-09	1.89E-07
2183	257717.7	4085348.95	1.2069E-07	1.61E-06	2.82E-07	2.82E-07	1.57E-07	2.45E-06	1.83E-08	2.46E-07	4.40E-08	4.40E-08	2.42E-08	3.76E-07	9.95E-09	1.33E-07	1.96E-08	1.96E-08	9.68E-09	1.92E-07
2184	257741.98	4085347.88	1.215E-07	1.62E-06	2.83E-07	2.83E-07	1.58E-07	2.47E-06	1.84E-08	2.47E-07	4.43E-08	4.43E-08	2.43E-08	3.79E-07	1.00E-08	1.34E-07	1.97E-08	1.97E-08	9.75E-09	1.93E-07
2185	257766.26	4085346.8	1.2162E-07	1.62E-06	2.84E-07	2.84E-07	1.58E-07	2.47E-06	1.85E-08	2.47E-07	4.43E-08	4.43E-08	2.44E-08	3.79E-07	1.00E-08	1.34E-07	1.97E-08	1.97E-08	9.76E-09	1.93E-07
2186	257790.55	4085345.73	1.2185E-07	1.63E-06	2.84E-07	2.84E-07	1.58E-07	2.48E-06	1.85E-08	2.48E-07	4.44E-08	4.44E-08	2.44E-08	3.80E-07	1.00E-08	1.34E-07	1.97E-08	1.97E-08	9.78E-09	1.93E-07
2187	257814.83	4085344.65	1.218E-07	1.63E-06	2.84E-07	2.84E-07	1.58E-07	2.48E-06	1.85E-08	2.48E-07	4.44E-08	4.44E-08	2.44E-08	3.79E-07	1.00E-08	1.34E-07	1.97E-08	1.97E-08	9.77E-09	1.93E-07
2188	257839.11	4085343.57	1.2143E-07	1.62E-06	2.83E-07	2.83E-07	1.58E-07	2.47E-06	1.84E-08	2.47E-07	4.42E-08	4.42E-08	2.43E-08	3.78E-07	1.00E-08	1.34E-07	1.97E-08	1.97E-08	9.74E-09	1.93E-07
2189	257863.39	4085342.5	1.2075E-07	1.61E-06	2.82E-07	2.82E-07	1.57E-07	2.45E-06	1.83E-08	2.46E-07	4.40E-08	4.40E-08	2.42E-08	3.76E-07	9.95E-09	1.33E-07	1.96E-08	1.96E-08	9.69E-09	1.92E-07
2190	257887.67	4085341.42	1.1978E-07	1.60E-06	2.79E-07	2.79E-07	1.56E-07	2.43E-06	1.82E-08	2.44E-07	4.36E-08	4.36E-08	2.40E-08	3.73E-07	9.87E-09	1.32E-07	1.94E-08	1.94E-08	9.61E-09	1.90E-07
2191	257911.95	4085340.35	1.1853E-07	1.58E-06	2.77E-07	2.77E-07	1.54E-07	2.41E-06	1.80E-08	2.41E-07	4.32E-08	4.32E-08	2.37E-08	3.69E-07	9.77E-09	1.31E-07	1.92E-08	1.92E-08	9.51E-09	1.88E-07
2192	257936.24	4085339.27	0.000000117	1.56E-06	2.73E-07	2.73E-07	1.52E-07	2.38E-06	1.78E-08	2.38E-07	4.26E-08	4.26E-08	2.34E-08	3.65E-07	9.64E-09	1.29E-07	1.90E-08	1.90E-08	9.39E-09	1.86E-07
2193	257960.52	4085338.2	1.1518E-07	1.54E-06	2.69E-07	2.69E-07	1.50E-07	2.34E-06	1.75E-08	2.34E-07	4.20E-08	4.20E-08	2.31E-08	3.59E-07	9.49E-09	1.27E-07	1.87E-08	1.87E-08	9.24E-09	1.83E-07
2194	257984.8	4085337.12	1.1308E-07	1.51E-06	2.64E-07	2.64E-07	1.47E-07	2.30E-06	1.72E-08	2.30E-07	4.12E-08	4.12E-08	2.26E-08	3.52E-07	9.32E-09	1.25E-07	1.83E-08	1.83E-08	9.07E-09	1.80E-07
2195	258009.08	4085336.05	1.1069E-07	1.48E-06	2.58E-07	2.58E-07	1.44E-07	2.25E-06	1.68E-08	2.25E-07	4.03E-08	4.03E-08	2.22E-08	3.45E-07	9.12E-09	1.22E-07	1.79E-08	1.79E-08	8.88E-09	1.76E-07
2196	258033.36	4085334.97	0.000000108	1.44E-06	2.52E-07	2.52E-07	1.40E-07	2.20E-06	1.64E-08	2.20E-07	3.93E-08	3.93E-08	2.16E-08	3.36E-07	8.90E-09	1.19E-07	1.75E-08	1.75E-08	8.66E-09	1.71E-07
2197	258057.65	4085333.9	1.0499E-07	1.40E-06	2.45E-07	2.45E-07	1.37E-07	2.13E-06	1.59E-08	2.14E-07	3.82E-08	3.82E-08	2.10E-08	3.27E-07	8.65E-09	1.16E-07	1.70E-08	1.70E-08	8.42E-09	1.67E-07
2198	258081.93	4085332.82	1.0167E-07	1.36E-06	2.37E-07	2.37E-07	1.32E-07	2.07E-06	1.54E-08	2.07E-07	3.70E-08	3.70E-08	2.04E-08	3.17E-07	8.38E-09	1.12E-07	1.65E-08	1.65E-08	8.16E-09	1.61E-07
2199	258106.21	4085331.74	9.7995E-08	1.31E-06	2.29E-07	2.29E-07	1.27E-07	1.99E-06	1.49E-08	1.99E-07	3.57E-08	3.57E-08	1.96E-08	3.05E-07	8.08E-09	1.08E-07	1.59E-08	1.59E-08	7.86E-09	1.56E-07
2200	258130.49	4085330.67	9.3943E-08	1.25E-06	2.19E-07	2.19E-07	1.22E-07	1.91E-06	1.43E-08	1.91E-07	3.42E-08	3.42E-08	1.88E-08	2.93E-07	7.74E-09	1.03E-07	1.52E-08	1.52E-08	7.54E-09	1.49E-07
2201	258154.77	4085329.59	8.9502E-08	1.20E-06	2.09E-07	2.09E-07	1.16E-07	1.82E-06	1.36E-08	1.82E-07	3.26E-08	3.26E-08	1.79E-08	2.79E-07	7.38E-09	9.85E-08	1.45E-08	1.45E-08	7.18E-09	1.42E-07
2202	258179.05	4085328.52	8.4666E-08	1.13E-06	1.98E-07	1.98E-07	1.10E-07	1.72E-06	1.28E-08	1.72E-07	3.08E-08	3.08E-08	1.70E-08	2.64E-07	6.98E-09	9.32E-08	1.37E-08	1.37E-08	6.79E-09	1.34E-07
2203	258203.34	4085327.44	7.9495E-08	1.06E-06	1.85E-07	1.85E-07	1.03E-07	1.62E-06	1.21E-08	1.62E-07	2.90E-08	2.90E-08	1.59E-08	2.48E-07	6.55E-09	8.75E-08	1.29E-08	1.29E-08	6.38E-09	1.26E-07
2204	258227.62	4085326.37	7.4096E-08	9.90E-07	1.73E-07	1.73E-07	9.64E-08	1.51E-06	1.12E-08	1.51E-07	2.70E-08	2.70E-08	1.48E-08	2.31E-07	6.11E-09	8.16E-08	1.20E-08	1.20E-08	5.94E-09	1.18E-07
2205	258251.9	4085325.29	6.863E-08	9.17E-07	1.60E-07	1.60E-07	8.93E-08	1.39E-06	1.04E-08	1.40E-07	2.50E-08	2.50E-08	1.37E-08	2.14E-07	5.66E-09	7.56E-08	1.11E-08	1.11E-08	5.51E-09	1.09E-07
2206	258276.18	4085324.22	6.3207E-08	8.44E-07	1.47E-07	1.47E-07	8.22E-08	1.28E-06	9.59E-09	1.29E-07	2.30E-08	2.30E-08	1.27E-08	1.97E-07	5.21E-09	6.96E-08	1.02E-08	1.02E-08	5.07E-09	1.00E-07
2207	258300.46	4085323.14	5.7863E-08	7.73E-07	1.35E-07	1.35E-07	7.53E-08	1.18E-06	8.78E-09	1.18E-07	2.11E-08	2.11E-08	1.16E-08	1.80E-07	4.77E-09	6.37E-08	9.38E-09	9.38E-09	4.64E-09	9.19E-08
2208	258324.75	4085322.07	5.2617E-08	7.03E-07	1.23E-07	1.23E-07	6.84E-08	1.07E-06	7.99E-09	1.07E-07	1.92E-08	1.92E-08	1.05E-08	1.64E-07	4.34E-09	5.79E-08	8.53E-09	8.53E-09	4.22E-09	8.35E-08
2209	258349.03	4085320.99	4.7616E-08	6.36E-07	1.11E-07	1.11E-07	6.19E-08	9.68E-07	7.23E-09	9.69E-08	1.73E-08	1.73E-08	9.54E-09	1.48E-07	3.92E-09	5.24E-08	7.72E-09	7.72E-09	3.82E-09	7.56E-08
2210	258373.31	4085319.91	4.3024E-08	5.75E-07	1.00E-07	1.00E-07	5.60E-08	8.74E-07	6.53E-09	8.76E-08	1.57E-08	1.57E-08	8.62E-09	1.34E-07	3.55E-09	4.74E-08	6.97E-09	6.97E-09	3.45E-09	6.83E-08

2211	257551.66	4085397.11	8.4273E-08	1.13E-06	1.97E-07	1.97E-07	1.10E-07	1.71E-06	1.28E-08	1.71E-07	3.07E-08	3.07E-08	1.69E-08	2.63E-07	6.95E-09	9.28E-08	1.37E-08	1.37E-08	6.76E-09	1.34E-07
2212	257529.09	4085388.87	8.4256E-08	1.13E-06	1.97E-07	1.97E-07	1.10E-07	1.71E-06	1.28E-08	1.71E-07	3.07E-08	3.07E-08	1.69E-08	2.63E-07	6.95E-09	9.28E-08	1.37E-08	1.37E-08	6.76E-09	1.34E-07
2213	257506.53	4085380.63	8.3621E-08	1.12E-06	1.95E-07	1.95E-07	1.09E-07	1.70E-06	1.27E-08	1.70E-07	3.05E-08	3.05E-08	1.67E-08	2.61E-07	6.89E-09	9.21E-08	1.36E-08	1.36E-08	6.71E-09	1.33E-07
2214	257483.97	4085372.38	8.2343E-08	1.10E-06	1.92E-07	1.92E-07	1.07E-07	1.67E-06	1.25E-08	1.68E-07	3.00E-08	3.00E-08	1.65E-08	2.57E-07	6.79E-09	9.07E-08	1.33E-08	1.33E-08	6.61E-09	1.31E-07
2215	257461.4	4085364.14	8.031E-08	1.07E-06	1.87E-07	1.87E-07	1.04E-07	1.63E-06	1.22E-08	1.63E-07	2.93E-08	2.93E-08	1.61E-08	2.50E-07	6.62E-09	8.84E-08	1.30E-08	1.30E-08	6.44E-09	1.28E-07
2216	257438.84	4085355.9	7.7433E-08	1.03E-06	1.81E-07	1.81E-07	1.01E-07	1.57E-06	1.18E-08	1.58E-07	2.82E-08	2.82E-08	1.55E-08	2.41E-07	6.38E-09	8.53E-08	1.25E-08	1.25E-08	6.21E-09	1.23E-07
2217	257416.28	4085347.66	7.3801E-08	9.86E-07	1.72E-07	1.72E-07	9.60E-08	1.50E-06	1.12E-08	1.50E-07	2.69E-08	2.69E-08	1.48E-08	2.30E-07	6.08E-09	8.13E-08	1.20E-08	1.20E-08	5.92E-09	1.17E-07
2218	257383.67	4085317.59	6.9977E-08	9.35E-07	1.63E-07	1.63E-07	9.10E-08	1.42E-06	1.06E-08	1.42E-07	2.55E-08	2.55E-08	1.40E-08	2.18E-07	5.77E-09	7.70E-08	1.13E-08	1.13E-08	5.61E-09	1.11E-07
2219	257373.62	4085295.77	6.9255E-08	9.25E-07	1.62E-07	1.62E-07	9.01E-08	1.41E-06	1.05E-08	1.41E-07	2.52E-08	2.52E-08	1.39E-08	2.16E-07	5.71E-09	7.63E-08	1.12E-08	1.12E-08	5.56E-09	1.10E-07
2220	257363.57	4085273.96	6.7158E-08	8.97E-07	1.57E-07	1.57E-07	8.74E-08	1.36E-06	1.02E-08	1.37E-07	2.45E-08	2.45E-08	1.34E-08	2.09E-07	5.54E-09	7.39E-08	1.09E-08	1.09E-08	5.39E-09	1.07E-07
2221	257353.52	4085252.14	6.3588E-08	8.49E-07	1.48E-07	1.48E-07	8.27E-08	1.29E-06	9.65E-09	1.29E-07	2.32E-08	2.32E-08	1.27E-08	1.98E-07	5.24E-09	7.00E-08	1.03E-08	1.03E-08	5.10E-09	1.01E-07
2222	257343.47	4085230.32	5.8781E-08	7.85E-07	1.37E-07	1.37E-07	7.65E-08	1.19E-06	8.92E-09	1.20E-07	2.14E-08	2.14E-08	1.18E-08	1.83E-07	4.85E-09	6.47E-08	9.53E-09	9.53E-09	4.72E-09	9.33E-08
2223	257333.43	4085208.5	5.3217E-08	7.11E-07	1.24E-07	1.24E-07	6.92E-08	1.08E-06	8.08E-09	1.08E-07	1.94E-08	1.94E-08	1.07E-08	1.66E-07	4.39E-09	5.86E-08	8.63E-09	8.63E-09	4.27E-09	8.45E-08
2224	257323.38	4085186.68	4.7386E-08	6.33E-07	1.11E-07	1.11E-07	6.16E-08	9.63E-07	7.19E-09	9.64E-08	1.73E-08	1.73E-08	9.49E-09	1.48E-07	3.91E-09	5.22E-08	7.68E-09	7.68E-09	3.80E-09	7.52E-08
2225	257574.22	4085405.36	8.3688E-08	1.12E-06	1.95E-07	1.95E-07	1.09E-07	1.70E-06	1.27E-08	1.70E-07	3.05E-08	3.05E-08	1.68E-08	2.61E-07	6.90E-09	9.21E-08	1.36E-08	1.36E-08	6.71E-09	1.33E-07
2226	257598.5	4085404.28	8.6133E-08	1.15E-06	2.01E-07	2.01E-07	1.12E-07	1.75E-06	1.31E-08	1.75E-07	3.14E-08	3.14E-08	1.72E-08	2.68E-07	7.10E-09	9.48E-08	1.40E-08	1.40E-08	6.91E-09	1.37E-07
2227	257622.79	4085403.2	8.8167E-08	1.18E-06	2.06E-07	2.06E-07	1.15E-07	1.79E-06	1.34E-08	1.79E-07	3.21E-08	3.21E-08	1.77E-08	2.75E-07	7.27E-09	9.71E-08	1.43E-08	1.43E-08	7.07E-09	1.40E-07
2228	257647.07	4085402.13	8.979E-08	1.20E-06	2.09E-07	2.09E-07	1.17E-07	1.82E-06	1.36E-08	1.83E-07	3.27E-08	3.27E-08	1.80E-08	2.80E-07	7.40E-09	9.89E-08	1.46E-08	1.46E-08	7.20E-09	1.43E-07
2229	257671.35	4085401.05	9.1077E-08	1.22E-06	2.12E-07	2.12E-07	1.18E-07	1.85E-06	1.38E-08	1.85E-07	3.32E-08	3.32E-08	1.82E-08	2.84E-07	7.51E-09	1.00E-07	1.48E-08	1.48E-08	7.31E-09	1.45E-07
2230	257695.63	4085399.98	9.2002E-08	1.23E-06	2.15E-07	2.15E-07	1.20E-07	1.87E-06	1.40E-08	1.87E-07	3.35E-08	3.35E-08	1.84E-08	2.87E-07	7.58E-09	1.01E-07	1.49E-08	1.49E-08	7.38E-09	1.46E-07
2231	257719.91	4085398.9	9.2274E-08	1.23E-06	2.15E-07	2.15E-07	1.20E-07	1.88E-06	1.40E-08	1.88E-07	3.36E-08	3.36E-08	1.85E-08	2.87E-07	7.61E-09	1.02E-07	1.50E-08	1.50E-08	7.40E-09	1.47E-07
2232	257744.19	4085397.83	9.2769E-08	1.24E-06	2.16E-07	2.16E-07	1.21E-07	1.89E-06	1.41E-08	1.89E-07	3.38E-08	3.38E-08	1.86E-08	2.89E-07	7.65E-09	1.02E-07	1.50E-08	1.50E-08	7.44E-09	1.47E-07
2233	257768.48	4085396.75	9.2992E-08	1.24E-06	2.17E-07	2.17E-07	1.21E-07	1.89E-06	1.41E-08	1.89E-07	3.39E-08	3.39E-08	1.86E-08	2.90E-07	7.67E-09	1.02E-07	1.51E-08	1.51E-08	7.46E-09	1.48E-07
2234	257792.76	4085395.68	9.2922E-08	1.24E-06	2.17E-07	2.17E-07	1.21E-07	1.89E-06	1.41E-08	1.89E-07	3.38E-08	3.38E-08	1.86E-08	2.90E-07	7.66E-09	1.02E-07	1.51E-08	1.51E-08	7.45E-09	1.48E-07
2235	257817.04	4085394.6	9.2589E-08	1.24E-06	2.16E-07	2.16E-07	1.20E-07	1.88E-06	1.41E-08	1.88E-07	3.37E-08	3.37E-08	1.85E-08	2.88E-07	7.63E-09	1.02E-07	1.50E-08	1.50E-08	7.43E-09	1.47E-07
2236	257841.32	4085393.53	9.1999E-08	1.23E-06	2.15E-07	2.15E-07	1.20E-07	1.87E-06	1.40E-08	1.87E-07	3.35E-08	3.35E-08	1.84E-08	2.87E-07	7.58E-09	1.01E-07	1.49E-08	1.49E-08	7.38E-09	1.46E-07
2237	257865.6	4085392.45	9.118E-08	1.22E-06	2.13E-07	2.13E-07	1.19E-07	1.85E-06	1.38E-08	1.86E-07	3.32E-08	3.32E-08	1.83E-08	2.84E-07	7.52E-09	1.00E-07	1.48E-08	1.48E-08	7.31E-09	1.45E-07
2238	257889.89	4085391.37	9.0142E-08	1.20E-06	2.10E-07	2.10E-07	1.17E-07	1.83E-06	1.37E-08	1.83E-07	3.28E-08	3.28E-08	1.81E-08	2.81E-07	7.43E-09	9.93E-08	1.46E-08	1.46E-08	7.23E-09	1.43E-07
2239	257914.17	4085390.3	8.8892E-08	1.19E-06	2.07E-07	2.07E-07	1.16E-07	1.81E-06	1.35E-08	1.81E-07	3.24E-08	3.24E-08	1.78E-08	2.77E-07	7.33E-09	9.79E-08	1.44E-08	1.44E-08	7.13E-09	1.41E-07
2240	257938.45	4085389.22	8.7447E-08	1.17E-06	2.04E-07	2.04E-07	1.14E-07	1.78E-06	1.33E-08	1.78E-07	3.19E-08	3.19E-08	1.75E-08	2.72E-07	7.21E-09	9.63E-08	1.42E-08	1.42E-08	7.02E-09	1.39E-07
2241	257962.73	4085388.15	8.5805E-08	1.15E-06	2.00E-07	2.00E-07	1.12E-07	1.74E-06	1.30E-08	1.75E-07	3.13E-08	3.13E-08	1.72E-08	2.67E-07	7.07E-09	9.45E-08	1.39E-08	1.39E-08	6.88E-09	1.36E-07
2242	257987.01	4085387.07	8.3974E-08	1.12E-06	1.96E-07	1.96E-07	1.09E-07	1.71E-06	1.27E-08	1.71E-07	3.06E-08	3.06E-08	1.68E-08	2.62E-07	6.92E-09	9.25E-08	1.36E-08	1.36E-08	6.74E-09	1.33E-07
2243	258011.29	4085386	8.1944E-08	1.09E-06	1.91E-07	1.91E-07	1.07E-07	1.67E-06	1.24E-08	1.67E-07	2.99E-08	2.99E-08	1.64E-08	2.55E-07	6.75E-09	9.02E-08	1.33E-08	1.33E-08	6.57E-09	1.30E-07
2244	258035.58	4085384.92	7.9719E-08	1.06E-06	1.86E-07	1.86E-07	1.04E-07	1.62E-06	1.21E-08	1.62E-07	2.90E-08	2.90E-08	1.60E-08	2.48E-07	6.57E-09	8.78E-08	1.29E-08	1.29E-08	6.40E-09	1.27E-07
2245	258059.86	4085383.85	7.7283E-08	1.03E-06	1.80E-07	1.80E-07	1.01E-07	1.57E-06	1.17E-08	1.57E-07	2.82E-08	2.82E-08	1.55E-08	2.41E-07	6.37E-09	8.51E-08	1.25E-08	1.25E-08	6.20E-09	1.23E-07
2246	258084.14	4085382.77	7.4628E-08	9.97E-07	1.74E-07	1.74E-07	9.71E-08	1.52E-06	1.13E-08	1.52E-07	2.72E-08	2.72E-08	1.49E-08	2.33E-07	6.15E-09	8.22E-08	1.21E-08	1.21E-08	5.99E-09	1.18E-07
2247	258108.42	4085381.7	7.1724E-08	9.58E-07	1.67E-07	1.67E-07	9.33E-08	1.46E-06	1.09E-08	1.46E-07	2.61E-08	2.61E-08	1.44E-08	2.23E-07	5.91E-09	7.90E-08	1.16E-08	1.16E-08	5.75E-09	1.14E-07
2248	258132.7	4085380.62	6.8573E-08	9.16E-07	1.60E-07	1.60E-07	8.92E-08	1.39E-06	1.04E-08	1.40E-07	2.50E-08	2.50E-08	1.37E-08	2.14E-07	5.65E-09	7.55E-08	1.11E-08	1.11E-08	5.50E-09	1.09E-07
2249	258156.99	4085379.54	6.5186E-08	8.71E-07	1.52E-07	1.52E-07	8.48E-08	1.32E-06	9.89E-09	1.33E-07	2.37E-08	2.37E-08	1.31E-08	2.03E-07	5.37E-09	7.18E-08	1.06E-08	1.06E-08	5.23E-09	1.04E-07
2250	258181.27	4085378.47	6.1611E-08	8.23E-07	1.44E-07	1.44E-07	8.01E-08	1.25E-06	9.35E-09	1.25E-07	2.24E-08	2.24E-08	1.23E-08	1.92E-07	5.08E-09	6.78E-08	9.99E-09	9.99E-09	4.94E-09	9.78E-08
2251	258205.55	4085377.39	5.794E-08	7.74E-07	1.35E-07	1.35E-07	7.54E-08	1.18E-06	8.79E-09	1.18E-07	2.11E-08	2.11E-08	1.16E-08	1.81E-07	4.78E-09	6.38E-08	9.39E-09	9.39E-09	4.65E-09	9.20E-08
2252	258229.83	4085376.32	5.4264E-08	7.25E-07	1.27E-07	1.27E-07	7.06E-08	1.10E-06	8.24E-09	1.10E-07	1.98E-08	1.98E-08	1.09E-08	1.69E-07	4.47E-09	5.97E-08	8.79E-09	8.79E-09	4.35E-09	8.62E-08
2253	258254.11	4085375.24	5.0644E-08	6.76E-07	1.18E-07	1.18E-07	6.59E-08	1.03E-06	7.69E-09	1.03E-07	1.84E-08	1.84E-08	1.01E-08	1.58E-07	4.17E-09	5.58E-08	8.21E-09	8.21E-09	4.06E-09	8.04E-08
2254	258278.39	4085374.17	4.7067E-08	6.29E-07	1.10E-07	1.10E-07	6.12E-08	9.57E-07	7.14E-09	9.58E-08	1.71E-08	1.71E-08	9.43E-09	1.47E-07	3.88E-09	5.18E-08	7.63E-09	7.63E-09	3.78E-09	7.47E-08
2255	258302.68	4085373.09	4.3521E-08	5.81E-07	1.02E-07	1.02E-07	5.66E-08	8.85E-07	6.61E-09	8.86E-08	1.59E-08	1.59E-08	8.72E-09	1.36E-07	3.59E-09	4.79E-08	7.05E-09	7.05E-09	3.49E-09	6.91E-08
2256	258326.96	4085372.02	4.0052E-08	5.35E-07	9.34E-08	9.34E-08	5.21E-08	8.14E-07	6.08E-09	8.15E-08	1.46E-08	1.46E-08	8.02E-09	1.25E-07	3.30E-09	4.41E-08	6.49E-09	6.49E-09	3.21E-09	6.36E-08
2257	258351.24	4085370.94	3.6747E-08	4.91E-07	8.57E-08	8.57E-08	4.78E-08	7.47E-07	5.58E-09	7.48E-08	1.34E-08	1.34E-08	7.36E-09	1.14E-07	3.03E-09	4.05E-08	5.96E-09	5.96E-09	2.95E-09	5.83E-08
2258	258375.52	4085369.87	3.3684E-08	4.50E-07	7.86E-08	7.86E-08	4.38E-08	6.85E-07	5.11E-09	6.85E-08	1.23E-08	1.23E-08	6.75E-09	1.05E-07	2.78E-09	3.71E-08	5.46E-09	5.46E-09	2.70E-09	5.35E-08
2259	257554.77	4085447.39	6.9107E-08	9.23E-07	1.61E-07	1.61E-07	8.99E-08	1.40E-06	1.05E-08	1.41E-07	2.52E-08	2.52E-08	1.38E-08	2.15E-07	5.70E-09	7.61E-08	1.12E-08	1.12E-08	5.54E-09	1.10E-07
2260	257533.11	4085439.48	6.9517E-08	9.29E-07	1.62E-07	1.62E-07	9.04E-08	1.41E-06	1.06E-08	1.41E-07	2.53E-08	2.53E-08	1.39E-08	2.17E-07	5.73E-09	7.65E-08	1.13E-08	1.13E-08	5.58E-09	1.10E-07
2261	257511.45	4085431.57	6.9557E-08	9.29E-07	1.62E-07	1.62E-07	9.05E-08	1.41E-06	1.06E-08	1.42E-07	2.53E-08	2.53E-08	1.39E-08	2.17E-07	5.73E-09	7.66E-08	1.13E-08	1.13E-08	5.58E-09	1.10E-07
2262	257489.79	4085423.65	6.9226E-08	9.25E-07	1.62E-07	1.62E-07	9.00E-08	1.41E-06	1.05E-08	1.41E-07	2.52E-08	2.52E-08	1.39E-08	2.16E-07	5.71E-09	7.62E-08	1.12E-08	1.12E-08	5.55E-09	1.10E-07
2263	257468.13	4085415.74	6.8501E-08	9.15E-07	1.60E-07	1.60E-07	8.91E-08	1.39E-06	1.04E-08	1.39E-07	2.50E-08	2.50E-08	1.37E-08	2.13E-07	5.65E-09	7.54E-08	1.11E-08	1.11E-08	5.50E-09	1.09E-07
2264	257446.47	4085407.83	6.7316E-08	8.99E-07	1.57E-07	1.57E-07	8.76E-08	1.37E-06	1.02E-08	1.37E-07	2.45E-08	2.45E-08	1.35E-08	2.10E-07	5.55E-09	7.41E-08	1.09E-08	1.09E-08	5.40E-09	1.07E-07
2265	257424.81	4085399.92	6.5593E-08	8.76E-07	1.53E-07	1.53E-07	8.53E-08	1.33E-06	9.95E-09	1.33E-07	2.39E-08	2.39E-08	1.31E-08	2.04E-07	5.41E-09	7.22E-08	1.06E-08	1.06E-08	5.26E-09	1.04E-07
2266	257403.15	4085392	6.3348E-08	8.46E-07	1.48E-07	1.48E-07	8.24E-08	1.29E-06	9.61E-09	1.29E-07	2.31E-08	2.31E-08	1.27E-08	1.97E-07	5.22E-09	6.97E-08	1.03E-08	1.03E-08	5.08E-09	1.01E-07
2267	257381.48	4085384.09	6.0687E-08	8.11E-07	1.42E-07	1.42E-07	7.89E-08	1.23E-06	9.21E-09	1.23E-07	2.21E-08	2.21E-08	1.22E-08	1.89E-07	5.00E-09	6.68E-08	9.84E-09	9.84E-09	4.87E-09	9.64E-08
2268	257350.18	4085355.23	5.7992E-08	7.75E-07	1.35E-07	1.35E-07	7.54E-08	1.18E-06	8.80E-09	1.18E-07	2.11E-08	2.11E-08	1.16E-08	1.81E-07	4.78E-09	6.39E-08	9.40E-09	9.40E-09	4.65E-09	9.21E-08
2269	257340.53	4085334.28	5.7621E-08	7.70E-07	1.34E-07	1.34E-07	7.49E-08	1.17E-06	8.75E-09	1.17E-07	2.10E-08	2.10E-08	1.15E-08	1.80E-07	4.75E-09	6.34E-08	9.34E-09	9.34E-09	4.62E-09	9.15E-08
2270	257330.89	4085313.34	5.646E-08	7.54E-07	1.32E-07	1.32E-07	7.34E-08	1.15E-06	8.57E-09	1.15E-07	2.06E-08	2.06E-08	1.13E-08	1.76E-07	4.65E-09	6.22E-08	9.15E-09	9.15E-09	4.53E-09	8.96E-08
2271	257321.24	4085292.39	5.4381E-08	7.26E-07	1.27E-07	1.27E-07	7.07E-08	1.11E-06	8.25E-09	1.11E-07	1.98E-08	1.98E-08	1.09E-08	1.69E-07	4.48E-09	5.99E-08	8.81E-09	8.81E-09	4.36E-09	8.63E-08
2272	257311.59	4085271.44	5.1389E-08	6.86E-07	1.20E-07	1.20E-07	6.68E-08	1.04E-06	7.80E-09	1.05E-07	1.87E-08	1.87E-08	1.03E-08	1.60E-07	4.24E-09	5.66E-08	8.33E-09	8.33E-09	4.12E-09	8.16E-08
2273	257301.95	4085250.5	4.7654E-08	6.37E-07	1.11E-07	1.11E-07	6.20E-08	9.69E-07	7.23E-09	9.70E-08	1.74E-08	1.74E-08	9.54E-09	1.48E-07	3.93E-09	5.25E-08	7.72E-09	7.72E-09	3.82E-09	7.57E-08
2274	257292.3	4085229.55	4.3461E-08	5.81E-07	1.01E-07	1.01E-07	5.65E-08	8.83E-07	6.60E-09	8.84E-08	1.58E-08	1.58E-08	8.70E-09	1.35E-07	3.58E-09	4.79E-08	7.04E-09	7.04E-09	3.49E-09	6.90E-08
2275	257282.66	4085208.6	3.9137E-08	5.23E-07	9.13E-08	9.13E-08	5.09E-08	7.95E-07	5.94E-09	7.96E-08	1.43E-08	1.43E-08	7.84E-09	1.22E-07	3.23E-09	4.31E-08	6.34E-09	6.34E-09	3.14E-09	6.21E-08
2276	257273.01	4085187.65	3.4941E-08	4.67E-07	8.15E-08	8.15E-08	4.54E-08	7.10E-07	5.30E-09	7.11E-08	1.27E-08	1.27E-08	7.00E-09	1.09E-07	2.88E-09	3.85E-08	5.66E-09	5.66E-09	2.80E-09	5.55E-08
2277	257576.43	4085455.31	6.8344E-08	9.13E-07	1.59E-07	1.59E-07	8.89E-08	1.39E-06	1.04E-08	1.39E-07	2.49E-08	2.49E-08	1.37E-08	2.13E-07	5.63E-09	7.53E-08	1.11E-08	1.11E-08	5.48E-09	1.09E-07
2278	257600.72	4085454.23	6.9834E-08	9.33E-07	1.63E-07	1.63E-07	9.08E-08	1.42E-06	1.06E-08	1.42E-07	2.54E-08	2.54E-08	1.40E-08	2.18E-07	5.76E-09	7.69E-08	1.13E-08	1.13E-08	5.60E-09	1.11E-07
2279	257625	4085453.16	7.1041E-08	9.49E-07	1.66E-07	1.66E-07	9.24E-08	1.44E-06	1.08E-08	1.45E-07	2.59E-08	2.59E-08	1.42E-08	2.21E-07	5.86E-09	7.82E-08	1.15E-08	1.15E-08	5.70E-09	1.13E-07
2280	257649.28	4085452.08	7.1964E-08	9.61E-07	1.68E-07	1.68E-07	9.36E-08	1.46E-06	1.09E-08	1.46E-07	2.62E-08	2.62E-08	1.44E-08	2.24E-07	5.93E-09	7.92E-08	1.17E-08	1.17E-08	5.77E-09	1.14E-07
2281	257673.56	4085451	7.2353E-08	9.66E-07	1.69E-07	1.69E-07	9.41E-08	1.47E-06	1.10E-08	1.47E-07	2.64E-08	2.64E-08	1.45E-08	2.25E-07	5.96E-09	7.97E-08	1.17E-08	1.17E-08	5.80E-09	1.15E-07
2282	257697.84	4085449.93	7.2673E-08	9.71E-07	1.70E-07	1.70E-07	9.45E-08	1.48E-06	1.10E-08	1.48E-07	2.65E-08	2.65E-08	1.46E-08	2.26E-07	5.99E-09	8.00E-08	1.18E-08	1.18E-08	5.83E-09	1.15E-07
2283	257722.13	4085448.85	7.2959E-08	9.75E-07	1.70E-07	1.70E-07	9.49E-08	1.48E-06	1.11E-08	1.48E-07	2.66E-08	2.66E-08	1.46E-08	2.27E-07	6.01E-09	8.03E-08	1.18E-08	1.18E-08	5.85E-09	1.16E-07
2284	257746.41	4085447.78	7.3087E-08	9.76E-07	1.71E-07	1.71E-07	9.51E-08	1.49E-06	1.11E-08	1.49E-07	2.66E-08	2.66E-08	1.46E-08	2.28E-07	6.02E-09	8.05E-08	1.18E-08	1.18E-08	5.86E-09	1.16E-07
2285	257770.69	4085446.7	7.3041E-08	9.76E-07	1.70E-07	1.70E-07	9.50E-08	1.48E-06	1.11E-08	1.49E-07	2.66E-08	2.66E-08	1.46E-08	2.28E-07	6.02E-09	8.04E-08	1.18E-08	1.18E-08	5.86E-09	1.16E-07
2286	257794.97	4085445.63	7.2795E-08	9.72E-07	1.70E-07	1.70E-07	9.47E-08	1.48E-06	1.10E-08	1.48E-07	2.65E-08	2.65E-08	1.46E-08	2.27E-07	6.00E-09	8.02E-08	1.18E-08	1.18E-08	5.84E-09	1.16E-07
2287	257819.25	4085444.55	7.2356E-08	9.67E-07	1.69E-07	1.69E-07	9.41E-08	1.47E-06	1.10E-08	1.47E-07	2.64E-08	2.64E-08	1.45E-08	2.25E-07	5.96E-09	7.97E-08	1.17E-08	1.17E-08	5.80E-09	1.15E-07
2288	257843.53	4085443.48	7.1724E-08	9.58E-07	1.67E-07	1.67E-07	9.33E-08	1.46E-06	1.09E-08	1.46E-07	2.61E-08	2.61E-08	1.44E-08	2.23E-07	5.91E-09	7.90E-08	1.16E-08	1.16E-08	5.75E-09	1.14E-07
2289	257867.82	4085442.4	7.092E-08	9.47E-07	1.65E-07	1.65E-07	9.22E-08	1.44E-06	1.08E-08	1.44E-07	2.58E-08	2.58E-08	1.42E-08	2.21E-07	5.85E-09	7.81E-08	1.15E-08	1.15E-08	5.69E-09	1.13E-07
2290	257892.1	4085441.33	6.9953E-08	9.34E-07	1.63E-07	1.63E-07	9.10E-08	1.42E-06	1.06E-08	1.42E-07	2.55E-08	2.55E-08	1.40E-08	2.18E-07	5.77E-09	7.70E-08	1.13E-08	1.13E-08	5.61E-09	1.11E-07
2291	257916.38	4085440.25	6.8841E-08	9.20E-07	1.61E-07	1.61E-07	8.95E-08	1.40E-06	1.04E-08	1.40E-07	2.51E-08	2.51E-08	1.38E-08	2.14E-07	5.67E-09	7.58E-08	1.12E-08	1.12E-08	5.52E-09	1.09E-07
2292	257940.66	4085439.17	6.7586E-08	9.03E-07	1.58E-07	1.58E-07	8.79E-08	1.37E-06	1.03E-08	1.38E-07	2.46E-08	2.46E-08	1.35E-08	2.11E-07	5.57E-09	7.44E-08	1.10E-08	1.10E-08	5.42E-09	1.07E-07
2293	257964.94	4085438.1	6.6188E-08	8.84E-07	1.54E-07	1.54E-07	8.61E-08	1.35E-06	1.00E-08	1.35E-07	2.41E-08	2.41E-08	1.33E-08	2.06E-07	5.46E-09	7.29E-08	1.07E-08	1.07E-08	5.31E-09	1.05E-07
2294	257989.23	4085437.02	6.4654E-08	8.64E-07	1.51E-07	1.51E-07	8.41E-08	1.31E-06	9.81E-09	1.32E-07	2.36E-08	2.36E-08	1.29E-08	2.01E-07	5.33E-09	7.12E-08	1.05E-08	1.05E-08	5.19E-09	1.03E-07
2295	258013.51	4085435.95	6.2972E-08	8.41E-07	1.47E-07	1.47E-07	8.19E-08	1.28E-06	9.56E-09	1.28E-07	2.29E-08	2.29E-08	1.26E-08	1.96E-07	5.19E-09	6.93E-08	1.02E-08	1.02E-08	5.05E-09	1.00E-07
2296	258037.79	4085434.87	6.1141E-08	8.17E-07	1.43E-07	1.43E-07	7.95E-08	1.24E-06	9.28E-09	1.24E-07	2.23E-08	2.23E-08	1.22E-08	1.90E-07	5.04E-09	6.73E-08	9.91E-09	9.91E-09	4.90E-09	9.71E-08
2297	258062.07	4085433.8	5.9142E-08	7.90E-07	1.38E-07	1.38E-07	7.69E-08	1.20E-06	8.98E-09	1.20E-07	2.15E-08	2.15E-08	1.18E-08	1.84E-07	4.88E-09	6.51E-08	9.59E-09	9.59E-09	4.74E-09	9.39E-08
2298	258086.35	4085432.72	5.6974E-08	7.61E-07	1.33E-07	1.33E-07	7.41E-08	1.16E-06	8.65E-09	1.16E-07	2.08E-08	2.08E-08	1.14E-08	1.78E-07	4.70E-09	6.27E-08	9.23E-09	9.23E-09	4.57E-09	9.05E-08
2299	258110.63	4085431.65	5.4629E-08	7.30E-07	1.27E-07	1.27E-07	7.11E-08	1.11E-06	8.29E-09	1.11E-07	1.99E-08	1.99E-08	1.09E-08	1.70E-07	4.50E-09	6.01E-08	8.85E-09	8.85E-09	4.38E-09	8.67E-08
2300	258134.92	4085430.57	5.2134E-08	6.96E-07	1.22E-07	1.22E-07	6.78E-08	1.06E-06	7.91E-09	1.06E-07	1.90E-08	1.90E-08	1.04E-08	1.62E-07	4.30E-09	5.74E-08	8.45E-09	8.45E-09	4.18E-09	8.28E-08
2301	258159.2	4085429.5	4.9534E-08	6.62E-07	1.16E-07	1.16E-07	6.44E-08	1.01E-06	7.52E-09	1.01E-07	1.80E-08	1.80E-08	9.92E-09	1.54E-07	4.08E-09	5.45E-08	8.03E-09	8.03E-09	3.97E-09	7.87E-08
2302	258183.48	4085428.42	4.6896E-08	6.26E-07	1.09E-07	1.09E-07	6.10E-08	9.53E-07	7.12E-09	9.54E-08	1.71E-08	1.71E-08	9.39E-09	1.46E-07	3.87E-09	5.16E-08	7.60E-09	7.60E-09	3.76E-09	7.45E-08
2303	258207.76	4085427.34	4.4283E-08	5.92E-07	1.03E-07	1.03E-07	5.76E-08	9.00E-07	6.72E-09	9.01E-08	1.61E-08	1.61E-08	8.87E-09	1.38E-07	3.65E-09	4.88E-08	7.18E-09	7.18E-09	3.55E-09	7.03E-08
2304	258232.04	4085426.27	4.1717E-08	5.57E-07	9.73E-08	9.73E-08	5.43E-08	8.48E-07	6.33E-09	8.49E-08	1.52E-08	1.52E-08	8.35E-09	1.30E-07	3.44E-09	4.59E-08	6.76E-09	6.76E-09	3.35E-09	6.62E-08
2305	258256.33	4085425.19	3.9188E-08	5.23E-07	9.14E-08	9.14E-08	5.10E-08	7.96E-07	5.95E-09	7.97E-08	1.43E-08	1.43E-08	7.85E-09	1.22E-07	3.23E-09	4.31E-08	6.35E-09	6.35E-09	3.14E-09	6.22E-08
2306	258280.61	4085424.12	3.6668E-08	4.90E-07	8.55E-08	8.55E-08	4.77E-08	7.45E-07	5.57E-09	7.46E-08	1.34E-08	1.34E-08	7.34E-09	1.14E-07	3.02E-09	4.04E-08	5.94E-09	5.94E-09	2.94E-09	5.82E-08
2307	258304.89	4085423.04	3.4172E-08	4.56E-07	7.97E-08	7.97E-08	4.44E-08	6.95E-07	5.19E-09	6.95E-08	1.24E-08	1.24E-08	6.84E-09	1.06E-07	2.82E-09	3.76E-08	5.54E-09	5.54E-09	2.74E-09	5.43E-08
2308	258329.17	4085421.97	3.1739E-08	4.24E-07	7.40E-08	7.40E-08	4.13E-08	6.45E-07	4.82E-09	6.46E-08	1.16E-08	1.16E-08	6.36E-09	9.89E-08	2.62E-09	3.49E-08	5.14E-09	5.14E-09	2.55E-09	5.04E-08
2309	258353.45	4085420.89	2.9422E-08	3.93E-07	6.86E-08	6.86E-08	3.83E-08	5.98E-07	4.47E-09	5.99E-08	1.07E-08	1.07E-08	5.89E-09	9.17E-08	2.43E-09	3.24E-08	4.77E-09	4.77E-09	2.36E-09	4.67E-08
2310	258377.73	4085419.82	2.7257E-08	3.64E-07	6.36E-08	6.36E-08	3.55E-08	5.54E-07	4.14E-09	5.55E-08	9.93E-09	9.93E-09	5.46E-09	8.49E-08	2.25E-09	3.00E-08	4.42E-09	4.42E-09	2.19E-09	4.33E-08
2311	257558.64	4085547.09	4.8286E-08	6.45E-07	1.13E-07	1.13E-07	6.28E-08	9.81E-07	7.33E-09	9.83E-08	1.76E-08	1.76E-08	9.67E-09	1.50E-07	3.98E-09	5.32E-08	7.83E-09	7.83E-09	3.87E-09	7.67E-08
2312	257536.43	4085538.98	4.9181E-08	6.57E-07	1.15E-07	1.15E-07	6.40E-08	1.00E-06	7.46E-09	1.00E-07	1.79E-08	1.79E-08	9.85E-09	1.53E-07	4.05E-09	5.42E-08	7.97E-09	7.97E-09	3.95E-09	7.81E-08
2313	257514.21	4085530.86	4.9693E-08	6.64E-07	1.16E-07	1.16E-07	6.46E-08	1.01E-06	7.54E-09	1.01E-07	1.81E-08	1.81E-08	9.95E-09	1.55E-07	4.10E-09	5.47E-08	8.05E-09	8.05E-09	3.99E-09	7.89E-08
2314	257491.99	4085522.75	5.0021E-08	6.68E-07	1.17E-07	1.17E-07	6.51E-08	1.02E-06	7.59E-09	1.02E-07	1.82E-08	1.82E-08	1.00E-08	1.56E-07	4.12E-09	5.51E-08	8.11E-09	8.11E-09	4.01E-09	7.94E-08
2315	257469.78	4085514.63	5.0165E-08	6.70E-07	1.17E-07	1.17E-07	6.53E-08	1.02E-06	7.61E-09	1.02E-07	1.83E-08	1.83E-08	1.00E-08	1.56E-07	4.14E-09	5.52E-08	8.13E-09	8.13E-09	4.02E-09	7.97E-08
2316	257447.56	4085506.51	5.0123E-08	6.70E-07	1.17E-07	1.17E-07	6.52E-08	1.02E-06	7.61E-09	1.02E-07	1.83E-08	1.83E-08	1.00E-08	1.56E-07	4.13E-09	5.52E-08	8.12E-09	8.12E-09	4.02E-09	7.96E-08
2317	257425.34	4085498.4	4.9859E-08	6.66E-07	1.16E-07	1.16E-07	6.49E-08	1.01E-06	7.57E-09	1.01E-07	1.82E-08	1.82E-08	9.98E-09	1.55E-07	4.11E-09	5.49E-08	8.08E-09	8.08E-09	4.00E-09	7.92E-08
2318	257403.13	4085490.28	4.9319E-08	6.59E-07	1.15E-07	1.15E-07	6.41E-08	1.00E-06	7.49E-09	1.00E-07	1.80E-08	1.80E-08	9.88E-09	1.54E-07	4.07E-09	5.43E-08	7.99E-09	7.99E-09	3.96E-09	7.83E-08
2319	257380.91	4085482.17	4.8454E-08	6.47E-07	1.13E-07	1.13E-07	6.30E-08	9.85E-07	7.35E-09	9.86E-08	1.76E-08	1.76E-08	9.70E-09	1.51E-07	3.99E-09	5.34E-08	7.85E-09	7.85E-09	3.89E-09	7.69E-08
2320	257358.69	4085474.05	4.7275E-08	6.31E-07	1.10E-07	1.10E-07	6.15E-08	9.61E-07	7.17E-09	9.62E-08	1.72E-08	1.72E-08	9.47E-09	1.47E-07	3.90E-09	5.21E-08	7.66E-09	7.66E-09	3.79E-09	7.51E-08
2321	257336.48	4085465.93	4.585E-08	6.12E-07	1.07E-07	1.07E-07	5.96E-08	9.32E-07	6.96E-09	9.33E-08	1.67E-08	1.67E-08	9.18E-09	1.43E-07	3.78E-09	5.05E-08	7.43E-09	7.43E-09	3.68E-09	7.28E-08
2322	257314.26	4085457.82	4.425E-08	5.91E-07	1.03E-07	1.03E-07	5.76E-08	8.99E-07	6.72E-09	9.00E-08	1.61E-08	1.61E-08	8.86E-09	1.38E-07	3.65E-09	4.87E-08	7.17E-09	7.17E-09	3.55E-09	7.03E-08
2323	257282.15	4085428.22	4.2738E-08	5.71E-07	9.97E-08	9.97E-08	5.56E-08	8.69E-07	6.49E-09	8.70E-08	1.56E-08	1.56E-08	8.56E-09	1.33E-07	3.52E-09	4.71E-08	6.93E-09	6.93E-09	3.43E-09	6.79E-08
2324	257272.26	4085406.73	4.2614E-08	5.69E-07	9.94E-08	9.94E-08	5.54E-08	8.66E-07	6.47E-09	8.67E-08	1.55E-08	1.55E-08	8.53E-09	1.33E-07	3.51E-09	4.69E-08	6.91E-09	6.91E-09	3.42E-09	6.77E-08
2325	257262.37	4085385.25	4.2082E-08	5.62E-07	9.82E-08	9.82E-08	5.47E-08	8.55E-07	6.39E-09	8.56E-08	1.53E-08	1.53E-08	8.43E-09	1.31E-07	3.47E-09	4.63E-08	6.82E-09	6.82E-09	3.38E-09	6.68E-08
2326	257252.47	4085363.77	4.1056E-08	5.48E-07	9.58E-08	9.58E-08	5.34E-08	8.34E-07	6.23E-09	8.35E-08	1.50E-08	1.50E-08	8.22E-09	1.28E-07	3.38E-09	4.52E-08	6.65E-09	6.65E-09	3.29E-09	6.52E-08
2327	257242.58	4085342.28	3.9496E-08	5.28E-07	9.21E-08	9.21E-08	5.14E-08	8.03E-07	5.99E-09	8.04E-08	1.44E-08	1.44E-08	7.91E-09	1.23E-07	3.26E-09	4.35E-08	6.40E-09	6.40E-09	3.17E-09	6.27E-08
2328	257232.69	4085320.8	3.7408E-08	5.00E-07	8.73E-08	8.73E-08	4.87E-08	7.60E-07	5.68E-09	7.61E-08	1.36E-08	1.36E-08	7.49E-09	1.17E-07	3.08E-09	4.12E-08	6.06E-09	6.06E-09	3.00E-09	5.94E-08
2329	257222.79	4085299.31	3.4877E-08	4.66E-07	8.14E-08	8.14E-08	4.54E-08	7.09E-07	5.29E-09	7.10E-08	1.27E-08	1.27E-08	6.98E-09	1.09E-07	2.87E-09	3.84E-08	5.65E-09	5.65E-09	2.80E-09	5.54E-08
2330	257212.9	4085277.83	3.2064E-08	4.28E-07	7.48E-08	7.48E-08	4.17E-08	6.52E-07	4.87E-09	6.52E-08	1.17E-08	1.17E-08	6.42E-09	9.99E-08	2.64E-09	3.53E-08	5.20E-09	5.20E-09	2.57E-09	5.09E-08
2331	257203.01	4085256.35	2.9157E-08	3.89E-07	6.80E-08	6.80E-08	3.79E-08	5.93E-07	4.43E-09	5.93E-08	1.06E-08	1.06E-08	5.84E-09	9.08E-08	2.40E-09	3.21E-08	4.73E-09	4.73E-09	2.34E-09	4.63E-08
2332	257193.11	4085234.86	2.6333E-08	3.52E-07	6.14E-08	6.14E-08	3.43E-08	5.35E-07	4.00E-09	5.36E-08	9.59E-09	9.59E-09	5.27E-09	8.20E-08	2.17E-09	2.90E-08	4.27E-09	4.27E-09	2.11E-09	4.18E-08
2333	257183.22	4085213.38	2.3728E-08	3.17E-07	5.54E-08	5.54E-08	3.09E-08	4.82E-07	3.60E-09	4.83E-08	8.64E-09	8.64E-09	4.75E-09	7.39E-08	1.96E-09	2.61E-08	3.85E-09	3.85E-09	1.90E-09	3.77E-08

2334	257173.33	4085191.89	2.1424E-08	2.86E-07	5.00E-08	5.00E-08	2.79E-08	4.35E-07	3.25E-09	4.36E-08	7.80E-09	7.80E-09	4.29E-09	6.67E-08	1.77E-09	2.36E-08	3.47E-09	3.47E-09	1.72E-09	3.40E-08
2335	257580.86	4085555.21	4.7448E-08	6.34E-07	1.11E-07	1.11E-07	6.17E-08	9.64E-07	7.20E-09	9.66E-08	1.73E-08	1.73E-08	9.50E-09	1.48E-07	3.91E-09	5.22E-08	7.69E-09	7.69E-09	3.81E-09	7.53E-08
2336	257605.14	4085554.13	4.7973E-08	6.41E-07	1.12E-07	1.12E-07	6.24E-08	9.75E-07	7.28E-09	9.76E-08	1.75E-08	1.75E-08	9.61E-09	1.49E-07	3.95E-09	5.28E-08	7.77E-09	7.77E-09	3.85E-09	7.62E-08
2337	257629.42	4085553.06	4.8353E-08	6.46E-07	1.13E-07	1.13E-07	6.29E-08	9.83E-07	7.34E-09	9.84E-08	1.76E-08	1.76E-08	9.68E-09	1.51E-07	3.99E-09	5.32E-08	7.84E-09	7.84E-09	3.88E-09	7.68E-08
2338	257653.7	4085551.98	4.8589E-08	6.49E-07	1.13E-07	1.13E-07	6.32E-08	9.88E-07	7.37E-09	9.89E-08	1.77E-08	1.77E-08	9.73E-09	1.51E-07	4.01E-09	5.35E-08	7.88E-09	7.88E-09	3.90E-09	7.72E-08
2339	257677.99	4085550.91	4.8678E-08	6.50E-07	1.14E-07	1.14E-07	6.33E-08	9.89E-07	7.39E-09	9.91E-08	1.77E-08	1.77E-08	9.75E-09	1.52E-07	4.01E-09	5.36E-08	7.89E-09	7.89E-09	3.91E-09	7.73E-08
2340	257702.27	4085549.83	4.864E-08	6.50E-07	1.13E-07	1.13E-07	6.33E-08	9.89E-07	7.38E-09	9.90E-08	1.77E-08	1.77E-08	9.74E-09	1.52E-07	4.01E-09	5.36E-08	7.88E-09	7.88E-09	3.90E-09	7.72E-08
2341	257726.55	4085548.76	4.8501E-08	6.48E-07	1.13E-07	1.13E-07	6.31E-08	9.86E-07	7.36E-09	9.87E-08	1.77E-08	1.77E-08	9.71E-09	1.51E-07	4.00E-09	5.34E-08	7.86E-09	7.86E-09	3.89E-09	7.70E-08
2342	257750.83	4085547.68	4.8292E-08	6.45E-07	1.13E-07	1.13E-07	6.28E-08	9.81E-07	7.33E-09	9.83E-08	1.76E-08	1.76E-08	9.67E-09	1.50E-07	3.98E-09	5.32E-08	7.83E-09	7.83E-09	3.87E-09	7.67E-08
2343	257775.11	4085546.6	4.8022E-08	6.41E-07	1.12E-07	1.12E-07	6.25E-08	9.76E-07	7.29E-09	9.77E-08	1.75E-08	1.75E-08	9.62E-09	1.50E-07	3.96E-09	5.29E-08	7.78E-09	7.78E-09	3.85E-09	7.63E-08
2344	257799.4	4085545.53	4.7685E-08	6.37E-07	1.11E-07	1.11E-07	6.20E-08	9.69E-07	7.24E-09	9.70E-08	1.74E-08	1.74E-08	9.55E-09	1.49E-07	3.93E-09	5.25E-08	7.73E-09	7.73E-09	3.83E-09	7.57E-08
2345	257823.68	4085544.45	4.7271E-08	6.31E-07	1.10E-07	1.10E-07	6.15E-08	9.61E-07	7.17E-09	9.62E-08	1.72E-08	1.72E-08	9.47E-09	1.47E-07	3.90E-09	5.20E-08	7.66E-09	7.66E-09	3.79E-09	7.51E-08
2346	257847.96	4085543.38	4.6763E-08	6.25E-07	1.09E-07	1.09E-07	6.08E-08	9.50E-07	7.10E-09	9.52E-08	1.70E-08	1.70E-08	9.37E-09	1.46E-07	3.85E-09	5.15E-08	7.58E-09	7.58E-09	3.75E-09	7.43E-08
2347	257872.24	4085542.3	4.6154E-08	6.17E-07	1.08E-07	1.08E-07	6.00E-08	9.38E-07	7.00E-09	9.39E-08	1.68E-08	1.68E-08	9.24E-09	1.44E-07	3.80E-09	5.08E-08	7.48E-09	7.48E-09	3.70E-09	7.33E-08
2348	257896.52	4085541.23	4.5444E-08	6.07E-07	1.06E-07	1.06E-07	5.91E-08	9.24E-07	6.90E-09	9.25E-08	1.66E-08	1.66E-08	9.10E-09	1.42E-07	3.75E-09	5.00E-08	7.37E-09	7.37E-09	3.65E-09	7.22E-08
2349	257920.8	4085540.15	4.4638E-08	5.96E-07	1.04E-07	1.04E-07	5.81E-08	9.07E-07	6.77E-09	9.08E-08	1.63E-08	1.63E-08	8.94E-09	1.39E-07	3.68E-09	4.91E-08	7.23E-09	7.23E-09	3.58E-09	7.09E-08
2350	257945.09	4085539.08	4.3733E-08	5.84E-07	1.02E-07	1.02E-07	5.69E-08	8.89E-07	6.64E-09	8.90E-08	1.59E-08	1.59E-08	8.76E-09	1.36E-07	3.60E-09	4.82E-08	7.09E-09	7.09E-09	3.51E-09	6.94E-08
2351	257969.37	4085538	4.273E-08	5.71E-07	9.97E-08	9.97E-08	5.56E-08	8.68E-07	6.49E-09	8.70E-08	1.56E-08	1.56E-08	8.56E-09	1.33E-07	3.52E-09	4.70E-08	6.93E-09	6.93E-09	3.43E-09	6.78E-08
2352	257993.65	4085536.93	4.1626E-08	5.56E-07	9.71E-08	9.71E-08	5.41E-08	8.46E-07	6.32E-09	8.47E-08	1.52E-08	1.52E-08	8.34E-09	1.30E-07	3.43E-09	4.58E-08	6.75E-09	6.75E-09	3.34E-09	6.61E-08
2353	258017.93	4085535.85	4.0416E-08	5.40E-07	9.43E-08	9.43E-08	5.26E-08	8.21E-07	6.13E-09	8.22E-08	1.47E-08	1.47E-08	8.09E-09	1.26E-07	3.33E-09	4.45E-08	6.55E-09	6.55E-09	3.24E-09	6.42E-08
2354	258042.21	4085534.77	3.9103E-08	5.22E-07	9.12E-08	9.12E-08	5.09E-08	7.95E-07	5.93E-09	7.96E-08	1.42E-08	1.42E-08	7.83E-09	1.22E-07	3.22E-09	4.31E-08	6.34E-09	6.34E-09	3.14E-09	6.21E-08
2355	258066.5	4085533.7	3.7689E-08	5.03E-07	8.79E-08	8.79E-08	4.90E-08	7.66E-07	5.72E-09	7.67E-08	1.37E-08	1.37E-08	7.55E-09	1.17E-07	3.11E-09	4.15E-08	6.11E-09	6.11E-09	3.02E-09	5.98E-08
2356	258090.78	4085532.62	3.6205E-08	4.84E-07	8.45E-08	8.45E-08	4.71E-08	7.36E-07	5.49E-09	7.37E-08	1.32E-08	1.32E-08	7.25E-09	1.13E-07	2.98E-09	3.99E-08	5.87E-09	5.87E-09	2.90E-09	5.75E-08
2357	258115.06	4085531.55	3.4678E-08	4.63E-07	8.09E-08	8.09E-08	4.51E-08	7.05E-07	5.26E-09	7.06E-08	1.26E-08	1.26E-08	6.95E-09	1.08E-07	2.86E-09	3.82E-08	5.62E-09	5.62E-09	2.78E-09	5.51E-08
2358	258139.34	4085530.47	3.3153E-08	4.43E-07	7.73E-08	7.73E-08	4.31E-08	6.74E-07	5.03E-09	6.75E-08	1.21E-08	1.21E-08	6.64E-09	1.03E-07	2.73E-09	3.65E-08	5.37E-09	5.37E-09	2.66E-09	5.26E-08
2359	258163.62	4085529.4	3.1656E-08	4.23E-07	7.39E-08	7.39E-08	4.12E-08	6.43E-07	4.80E-09	6.44E-08	1.15E-08	1.15E-08	6.34E-09	9.86E-08	2.61E-09	3.49E-08	5.13E-09	5.13E-09	2.54E-09	5.03E-08
2360	258187.9	4085528.32	3.0198E-08	4.03E-07	7.05E-08	7.05E-08	3.93E-08	6.14E-07	4.58E-09	6.15E-08	1.10E-08	1.10E-08	6.05E-09	9.41E-08	2.49E-09	3.32E-08	4.89E-09	4.89E-09	2.42E-09	4.80E-08
2361	258212.19	4085527.25	2.8764E-08	3.84E-07	6.71E-08	6.71E-08	3.74E-08	5.85E-07	4.37E-09	5.85E-08	1.05E-08	1.05E-08	5.76E-09	8.96E-08	2.37E-09	3.17E-08	4.66E-09	4.66E-09	2.31E-09	4.57E-08
2362	258236.47	4085526.17	2.7334E-08	3.65E-07	6.38E-08	6.38E-08	3.56E-08	5.56E-07	4.15E-09	5.56E-08	9.96E-09	9.96E-09	5.47E-09	8.52E-08	2.25E-09	3.01E-08	4.43E-09	4.43E-09	2.19E-09	4.34E-08
2363	258260.75	4085525.1	2.5896E-08	3.46E-07	6.04E-08	6.04E-08	3.37E-08	5.26E-07	3.93E-09	5.27E-08	9.43E-09	9.43E-09	5.19E-09	8.07E-08	2.13E-09	2.85E-08	4.20E-09	4.20E-09	2.08E-09	4.11E-08
2364	258285.03	4085524.02	2.4466E-08	3.27E-07	5.71E-08	5.71E-08	3.18E-08	4.97E-07	3.71E-09	4.98E-08	8.91E-09	8.91E-09	4.90E-09	7.62E-08	2.02E-09	2.69E-08	3.97E-09	3.97E-09	1.96E-09	3.88E-08
2365	258309.31	4085522.94	2.3063E-08	3.08E-07	5.38E-08	5.38E-08	3.00E-08	4.69E-07	3.50E-09	4.69E-08	8.40E-09	8.40E-09	4.62E-09	7.19E-08	1.90E-09	2.54E-08	3.74E-09	3.74E-09	1.85E-09	3.66E-08
2366	258333.6	4085521.87	2.1701E-08	2.90E-07	5.06E-08	5.06E-08	2.82E-08	4.41E-07	3.29E-09	4.42E-08	7.91E-09	7.91E-09	4.35E-09	6.76E-08	1.79E-09	2.39E-08	3.52E-09	3.52E-09	1.74E-09	3.45E-08
2367	258357.88	4085520.79	2.0404E-08	2.73E-07	4.76E-08	4.76E-08	2.65E-08	4.15E-07	3.10E-09	4.15E-08	7.43E-09	7.43E-09	4.09E-09	6.36E-08	1.68E-09	2.25E-08	3.31E-09	3.31E-09	1.64E-09	3.24E-08
2368	258382.16	4085519.72	1.918E-08	2.56E-07	4.47E-08	4.47E-08	2.49E-08	3.90E-07	2.91E-09	3.90E-08	6.99E-09	6.99E-09	3.84E-09	5.98E-08	1.58E-09	2.11E-08	3.11E-09	3.11E-09	1.54E-09	3.05E-08
2369	257562.72	4085646.87	3.5422E-08	4.73E-07	8.26E-08	8.26E-08	4.61E-08	7.20E-07	5.38E-09	7.21E-08	1.29E-08	1.29E-08	7.09E-09	1.10E-07	2.92E-09	3.90E-08	5.74E-09	5.74E-09	2.84E-09	5.62E-08
2370	257540.16	4085638.63	3.6071E-08	4.82E-07	8.42E-08	8.42E-08	4.69E-08	7.33E-07	5.47E-09	7.34E-08	1.31E-08	1.31E-08	7.22E-09	1.12E-07	2.97E-09	3.97E-08	5.85E-09	5.85E-09	2.89E-09	5.73E-08
2371	257517.59	4085630.38	3.6645E-08	4.89E-07	8.55E-08	8.55E-08	4.77E-08	7.45E-07	5.56E-09	7.46E-08	1.33E-08	1.33E-08	7.34E-09	1.14E-07	3.02E-09	4.03E-08	5.94E-09	5.94E-09	2.94E-09	5.82E-08
2372	257495.03	4085622.14	3.7131E-08	4.96E-07	8.66E-08	8.66E-08	4.83E-08	7.55E-07	5.64E-09	7.56E-08	1.35E-08	1.35E-08	7.44E-09	1.16E-07	3.06E-09	4.09E-08	6.02E-09	6.02E-09	2.98E-09	5.90E-08
2373	257472.47	4085613.9	3.7525E-08	5.01E-07	8.75E-08	8.75E-08	4.88E-08	7.63E-07	5.70E-09	7.64E-08	1.37E-08	1.37E-08	7.52E-09	1.17E-07	3.09E-09	4.13E-08	6.08E-09	6.08E-09	3.01E-09	5.96E-08
2374	257449.9	4085605.65	3.7827E-08	5.05E-07	8.83E-08	8.83E-08	4.92E-08	7.69E-07	5.74E-09	7.70E-08	1.38E-08	1.38E-08	7.58E-09	1.18E-07	3.12E-09	4.16E-08	6.13E-09	6.13E-09	3.03E-09	6.01E-08
2375	257427.34	4085597.41	3.8161E-08	5.10E-07	8.90E-08	8.90E-08	4.96E-08	7.76E-07	5.79E-09	7.77E-08	1.39E-08	1.39E-08	7.64E-09	1.19E-07	3.15E-09	4.20E-08	6.18E-09	6.18E-09	3.06E-09	6.06E-08
2376	257404.77	4085589.17	3.8288E-08	5.11E-07	8.93E-08	8.93E-08	4.98E-08	7.78E-07	5.81E-09	7.79E-08	1.39E-08	1.39E-08	7.67E-09	1.19E-07	3.16E-09	4.22E-08	6.21E-09	6.21E-09	3.07E-09	6.08E-08
2377	257382.21	4085580.93	3.8257E-08	5.11E-07	8.93E-08	8.93E-08	4.98E-08	7.78E-07	5.81E-09	7.79E-08	1.39E-08	1.39E-08	7.66E-09	1.19E-07	3.15E-09	4.21E-08	6.20E-09	6.20E-09	3.07E-09	6.07E-08
2378	257359.65	4085572.68	3.8046E-08	5.08E-07	8.88E-08	8.88E-08	4.95E-08	7.73E-07	5.77E-09	7.74E-08	1.39E-08	1.39E-08	7.62E-09	1.19E-07	3.14E-09	4.19E-08	6.17E-09	6.17E-09	3.05E-09	6.04E-08
2379	257337.08	4085564.44	3.7621E-08	5.03E-07	8.78E-08	8.78E-08	4.89E-08	7.65E-07	5.71E-09	7.66E-08	1.37E-08	1.37E-08	7.53E-09	1.17E-07	3.10E-09	4.14E-08	6.10E-09	6.10E-09	3.02E-09	5.97E-08
2380	257314.52	4085556.2	3.6996E-08	4.94E-07	8.63E-08	8.63E-08	4.81E-08	7.52E-07	5.61E-09	7.53E-08	1.35E-08	1.35E-08	7.41E-09	1.15E-07	3.05E-09	4.07E-08	6.00E-09	6.00E-09	2.97E-09	5.87E-08
2381	257291.96	4085547.96	3.6213E-08	4.84E-07	8.45E-08	8.45E-08	4.71E-08	7.36E-07	5.50E-09	7.37E-08	1.32E-08	1.32E-08	7.25E-09	1.13E-07	2.99E-09	3.99E-08	5.87E-09	5.87E-09	2.91E-09	5.75E-08
2382	257269.39	4085539.71	3.5316E-08	4.72E-07	8.24E-08	8.24E-08	4.59E-08	7.18E-07	5.36E-09	7.19E-08	1.29E-08	1.29E-08	7.07E-09	1.10E-07	2.91E-09	3.89E-08	5.72E-09	5.72E-09	2.83E-09	5.61E-08
2383	257246.83	4085531.47	3.4347E-08	4.59E-07	8.01E-08	8.01E-08	4.47E-08	6.98E-07	5.21E-09	6.99E-08	1.25E-08	1.25E-08	6.88E-09	1.07E-07	2.83E-09	3.78E-08	5.57E-09	5.57E-09	2.76E-09	5.45E-08
2384	257214.22	4085501.41	3.3542E-08	4.48E-07	7.83E-08	7.83E-08	4.36E-08	6.82E-07	5.09E-09	6.83E-08	1.22E-08	1.22E-08	6.72E-09	1.04E-07	2.76E-09	3.69E-08	5.44E-09	5.44E-09	2.69E-09	5.33E-08
2385	257204.17	4085479.59	3.3563E-08	4.48E-07	7.83E-08	7.83E-08	4.37E-08	6.82E-07	5.09E-09	6.83E-08	1.22E-08	1.22E-08	6.72E-09	1.05E-07	2.77E-09	3.70E-08	5.44E-09	5.44E-09	2.69E-09	5.33E-08
2386	257194.12	4085457.77	3.3337E-08	4.45E-07	7.78E-08	7.78E-08	4.34E-08	6.78E-07	5.06E-09	6.78E-08	1.21E-08	1.21E-08	6.68E-09	1.04E-07	2.75E-09	3.67E-08	5.40E-09	5.40E-09	2.67E-09	5.29E-08
2387	257184.08	4085435.95	3.2813E-08	4.38E-07	7.66E-08	7.66E-08	4.27E-08	6.67E-07	4.98E-09	6.68E-08	1.20E-08	1.20E-08	6.57E-09	1.02E-07	2.70E-09	3.61E-08	5.32E-09	5.32E-09	2.63E-09	5.21E-08
2388	257174.03	4085414.13	3.1949E-08	4.27E-07	7.45E-08	7.45E-08	4.16E-08	6.49E-07	4.85E-09	6.50E-08	1.16E-08	1.16E-08	6.40E-09	9.95E-08	2.63E-09	3.52E-08	5.18E-09	5.18E-09	2.56E-09	5.07E-08
2389	257163.98	4085392.31	3.0734E-08	4.11E-07	7.17E-08	7.17E-08	4.00E-08	6.25E-07	4.66E-09	6.25E-08	1.12E-08	1.12E-08	6.16E-09	9.58E-08	2.53E-09	3.38E-08	4.98E-09	4.98E-09	2.47E-09	4.88E-08
2390	257153.93	4085370.49	2.9179E-08	3.90E-07	6.81E-08	6.81E-08	3.80E-08	5.93E-07	4.43E-09	5.94E-08	1.06E-08	1.06E-08	5.84E-09	9.09E-08	2.41E-09	3.21E-08	4.73E-09	4.73E-09	2.34E-09	4.63E-08
2391	257143.88	4085348.67	2.7341E-08	3.65E-07	6.38E-08	6.38E-08	3.56E-08	5.56E-07	4.15E-09	5.56E-08	9.96E-09	9.96E-09	5.48E-09	8.52E-08	2.25E-09	3.01E-08	4.43E-09	4.43E-09	2.19E-09	4.34E-08
2392	257133.84	4085326.85	2.5311E-08	3.38E-07	5.91E-08	5.91E-08	3.29E-08	5.14E-07	3.84E-09	5.15E-08	9.22E-09	9.22E-09	5.07E-09	7.89E-08	2.09E-09	2.79E-08	4.10E-09	4.10E-09	2.03E-09	4.02E-08
2393	257123.79	4085305.03	2.321E-08	3.10E-07	5.42E-08	5.42E-08	3.02E-08	4.72E-07	3.52E-09	4.72E-08	8.45E-09	8.45E-09	4.65E-09	7.23E-08	1.91E-09	2.56E-08	3.76E-09	3.76E-09	1.86E-09	3.69E-08
2394	257113.74	4085283.21	2.1151E-08	2.83E-07	4.93E-08	4.93E-08	2.75E-08	4.30E-07	3.21E-09	4.30E-08	7.70E-09	7.70E-09	4.24E-09	6.59E-08	1.74E-09	2.33E-08	3.43E-09	3.43E-09	1.70E-09	3.36E-08
2395	257103.69	4085261.39	1.9229E-08	2.57E-07	4.49E-08	4.49E-08	2.50E-08	3.91E-07	2.92E-09	3.91E-08	7.00E-09	7.00E-09	3.85E-09	5.99E-08	1.59E-09	2.12E-08	3.12E-09	3.12E-09	1.54E-09	3.05E-08
2396	257093.65	4085239.57	1.7503E-08	2.34E-07	4.08E-08	4.08E-08	2.28E-08	3.56E-07	2.66E-09	3.56E-08	6.38E-09	6.38E-09	3.51E-09	5.45E-08	1.44E-09	1.93E-08	2.84E-09	2.84E-09	1.40E-09	2.78E-08
2397	257083.6	4085217.75	1.6026E-08	2.14E-07	3.74E-08	3.74E-08	2.08E-08	3.26E-07	2.43E-09	3.26E-08	5.84E-09	5.84E-09	3.21E-09	4.99E-08	1.32E-09	1.76E-08	2.60E-09	2.60E-09	1.29E-09	2.54E-08
2398	257073.55	4085195.93	1.4792E-08	1.98E-07	3.45E-08	3.45E-08	1.92E-08	3.01E-07	2.24E-09	3.01E-08	5.39E-09	5.39E-09	2.96E-09	4.61E-08	1.22E-09	1.63E-08	2.40E-09	2.40E-09	1.19E-09	2.35E-08
2399	257585.28	4085655.11	3.4702E-08	4.64E-07	8.10E-08	8.10E-08	4.51E-08	7.05E-07	5.27E-09	7.06E-08	1.26E-08	1.26E-08	6.95E-09	1.08E-07	2.86E-09	3.82E-08	5.62E-09	5.62E-09	2.78E-09	5.51E-08
2400	257609.57	4085654.03	3.4864E-08	4.66E-07	8.13E-08	8.13E-08	4.53E-08	7.09E-07	5.29E-09	7.09E-08	1.27E-08	1.27E-08	6.98E-09	1.09E-07	2.87E-09	3.84E-08	5.65E-09	5.65E-09	2.80E-09	5.54E-08
2401	257633.85	4085652.96	3.495E-08	4.67E-07	8.15E-08	8.15E-08	4.55E-08	7.10E-07	5.30E-09	7.11E-08	1.27E-08	1.27E-08	7.00E-09	1.09E-07	2.88E-09	3.85E-08	5.66E-09	5.66E-09	2.80E-09	5.55E-08
2402	257658.13	4085651.88	3.4957E-08	4.67E-07	8.16E-08	8.16E-08	4.55E-08	7.10E-07	5.31E-09	7.11E-08	1.27E-08	1.27E-08	7.00E-09	1.09E-07	2.88E-09	3.85E-08	5.67E-09	5.67E-09	2.80E-09	5.55E-08
2403	257682.41	4085650.81	3.4883E-08	4.66E-07	8.14E-08	8.14E-08	4.54E-08	7.09E-07	5.29E-09	7.10E-08	1.27E-08	1.27E-08	6.99E-09	1.09E-07	2.88E-09	3.84E-08	5.65E-09	5.65E-09	2.80E-09	5.54E-08
2404	257706.69	4085649.73	3.4735E-08	4.64E-07	8.10E-08	8.10E-08	4.52E-08	7.06E-07	5.27E-09	7.07E-08	1.27E-08	1.27E-08	6.96E-09	1.08E-07	2.86E-09	3.82E-08	5.63E-09	5.63E-09	2.79E-09	5.52E-08
2405	257730.97	4085648.66	3.4518E-08	4.61E-07	8.05E-08	8.05E-08	4.49E-08	7.02E-07	5.24E-09	7.02E-08	1.26E-08	1.26E-08	6.91E-09	1.08E-07	2.85E-09	3.80E-08	5.59E-09	5.59E-09	2.77E-09	5.48E-08
2406	257755.26	4085647.58	3.4252E-08	4.58E-07	7.99E-08	7.99E-08	4.46E-08	6.96E-07	5.20E-09	6.97E-08	1.25E-08	1.25E-08	6.86E-09	1.07E-07	2.82E-09	3.77E-08	5.55E-09	5.55E-09	2.75E-09	5.44E-08
2407	257779.54	4085646.51	3.3948E-08	4.53E-07	7.92E-08	7.92E-08	4.42E-08	6.90E-07	5.15E-09	6.91E-08	1.24E-08	1.24E-08	6.80E-09	1.06E-07	2.80E-09	3.74E-08	5.50E-09	5.50E-09	2.72E-09	5.39E-08
2408	257803.82	4085645.43	3.3614E-08	4.49E-07	7.84E-08	7.84E-08	4.37E-08	6.83E-07	5.10E-09	6.84E-08	1.22E-08	1.22E-08	6.73E-09	1.05E-07	2.77E-09	3.70E-08	5.45E-09	5.45E-09	2.70E-09	5.34E-08
2409	257828.1	4085644.36	3.325E-08	4.44E-07	7.76E-08	7.76E-08	4.32E-08	6.76E-07	5.05E-09	6.77E-08	1.21E-08	1.21E-08	6.66E-09	1.04E-07	2.74E-09	3.66E-08	5.39E-09	5.39E-09	2.67E-09	5.28E-08
2410	257852.38	4085643.28	3.2842E-08	4.39E-07	7.66E-08	7.66E-08	4.27E-08	6.67E-07	4.98E-09	6.68E-08	1.20E-08	1.20E-08	6.58E-09	1.02E-07	2.71E-09	3.62E-08	5.32E-09	5.32E-09	2.63E-09	5.21E-08
2411	257876.67	4085642.2	3.2308E-08	4.32E-07	7.54E-08	7.54E-08	4.20E-08	6.57E-07	4.90E-09	6.57E-08	1.18E-08	1.18E-08	6.47E-09	1.01E-07	2.66E-09	3.56E-08	5.24E-09	5.24E-09	2.59E-09	5.13E-08
2412	257900.95	4085641.13	3.1736E-08	4.24E-07	7.40E-08	7.40E-08	4.13E-08	6.45E-07	4.82E-09	6.46E-08	1.16E-08	1.16E-08	6.36E-09	9.89E-08	2.62E-09	3.49E-08	5.14E-09	5.14E-09	2.55E-09	5.04E-08
2413	257925.23	4085640.05	3.1133E-08	4.16E-07	7.26E-08	7.26E-08	4.05E-08	6.33E-07	4.73E-09	6.34E-08	1.13E-08	1.13E-08	6.23E-09	9.70E-08	2.57E-09	3.43E-08	5.05E-09	5.05E-09	2.50E-09	4.94E-08
2414	257949.51	4085638.98	3.0442E-08	4.07E-07	7.10E-08	7.10E-08	3.96E-08	6.19E-07	4.62E-09	6.19E-08	1.11E-08	1.11E-08	6.10E-09	9.48E-08	2.51E-09	3.35E-08	4.93E-09	4.93E-09	2.44E-09	4.83E-08
2415	257973.79	4085637.9	2.9675E-08	3.96E-07	6.92E-08	6.92E-08	3.86E-08	6.03E-07	4.50E-09	6.04E-08	1.08E-08	1.08E-08	5.94E-09	9.25E-08	2.45E-09	3.27E-08	4.81E-09	4.81E-09	2.38E-09	4.71E-08
2416	257998.07	4085636.83	2.8875E-08	3.86E-07	6.74E-08	6.74E-08	3.76E-08	5.87E-07	4.38E-09	5.88E-08	1.05E-08	1.05E-08	5.78E-09	9.00E-08	2.38E-09	3.18E-08	4.68E-09	4.68E-09	2.32E-09	4.58E-08
2417	258022.36	4085635.75	2.7986E-08	3.74E-07	6.53E-08	6.53E-08	3.64E-08	5.69E-07	4.25E-09	5.69E-08	1.02E-08	1.02E-08	5.60E-09	8.72E-08	2.31E-09	3.08E-08	4.54E-09	4.54E-09	2.25E-09	4.44E-08
2418	258046.64	4085634.68	2.7038E-08	3.61E-07	6.31E-08	6.31E-08	3.52E-08	5.50E-07	4.10E-09	5.50E-08	9.85E-09	9.85E-09	5.42E-09	8.42E-08	2.23E-09	2.98E-08	4.38E-09	4.38E-09	2.17E-09	4.29E-08
2419	258070.92	4085633.6	2.6076E-08	3.48E-07	6.08E-08	6.08E-08	3.39E-08	5.30E-07	3.96E-09	5.31E-08	9.50E-09	9.50E-09	5.22E-09	8.12E-08	2.15E-09	2.87E-08	4.23E-09	4.23E-09	2.09E-09	4.14E-08
2420	258095.2	4085632.53	2.512E-08	3.36E-07	5.86E-08	5.86E-08	3.27E-08	5.11E-07	3.81E-09	5.11E-08	9.15E-09	9.15E-09	5.03E-09	7.83E-08	2.07E-09	2.77E-08	4.07E-09	4.07E-09	2.02E-09	3.99E-08
2421	258119.48	4085631.45	2.4189E-08	3.23E-07	5.64E-08	5.64E-08	3.15E-08	4.92E-07	3.67E-09	4.92E-08	8.81E-09	8.81E-09	4.84E-09	7.54E-08	1.99E-09	2.66E-08	3.92E-09	3.92E-09	1.94E-09	3.84E-08
2422	258143.77	4085630.37	2.3281E-08	3.11E-07	5.43E-08	5.43E-08	3.03E-08	4.73E-07	3.53E-09	4.74E-08	8.48E-09	8.48E-09	4.66E-09	7.25E-08	1.92E-09	2.56E-08	3.77E-09	3.77E-09	1.87E-09	3.70E-08
2423	258168.05	4085629.3	2.2388E-08	2.99E-07	5.22E-08	5.22E-08	2.91E-08	4.55E-07	3.40E-09	4.56E-08	8.16E-09	8.16E-09	4.48E-09	6.98E-08	1.85E-09	2.47E-08	3.63E-09	3.63E-09	1.80E-09	3.55E-08
2424	258192.33	4085628.22	2.1472E-08	2.87E-07	5.01E-08	5.01E-08	2.79E-08	4.36E-07	3.26E-09	4.37E-08	7.82E-09	7.82E-09	4.30E-09	6.69E-08	1.77E-09	2.36E-08	3.48E-09	3.48E-09	1.72E-09	3.41E-08
2425	258216.61	4085627.15	2.0437E-08	2.73E-07	4.77E-08	4.77E-08	2.66E-08	4.15E-07	3.10E-09	4.16E-08	7.44E-09	7.44E-09	4.09E-09	6.37E-08	1.68E-09	2.25E-08	3.31E-09	3.31E-09	1.64E-09	3.25E-08
2426	258240.89	4085626.07	1.952E-08	2.61E-07	4.55E-08	4.55E-08	2.54E-08	3.97E-07	2.96E-09	3.97E-08	7.11E-09	7.11E-09	3.91E-09	6.08E-08	1.61E-09	2.15E-08	3.16E-09	3.16E-09	1.57E-09	3.10E-08
2427	258265.17	4085625	1.8613E-08	2.49E-07	4.34E-08	4.34E-08	2.42E-08	3.78E-07	2.82E-09	3.79E-08	6.78E-09	6.78E-09	3.73E-09	5.80E-08	1.53E-09	2.05E-08	3.02E-09	3.02E-09	1.49E-09	2.96E-08
2428	258289.46	4085623.92	1.7716E-08	2.37E-07	4.13E-08	4.13E-08	2.30E-08	3.60E-07	2.69E-09	3.61E-08	6.45E-09	6.45E-09	3.55E-09	5.52E-08	1.46E-09	1.95E-08	2.87E-09	2.87E-09	1.42E-09	2.81E-08
2429	258313.74	4085622.85	1.684E-08	2.25E-07	3.93E-08	3.93E-08	2.19E-08	3.42E-07	2.56E-09	3.43E-08	6.13E-09	6.13E-09	3.37E-09	5.25E-08	1.39E-09	1.85E-08	2.73E-09	2.73E-09	1.35E-09	2.67E-08
2430	258338.02	4085621.77	1.5993E-08	2.14E-07	3.73E-08	3.73E-08	2.08E-08	3.25E-07	2.43E-09	3.25E-08	5.83E-09	5.83E-09	3.20E-09	4.98E-08	1.32E-09	1.76E-08	2.59E-09	2.59E-09	1.28E-09	2.54E-08
2431	258362.3	4085620.7	1.5176E-08	2.03E-07	3.54E-08	3.54E-08	1.97E-08	3.08E-07	2.30E-09	3.09E-08	5.53E-09	5.53E-09	3.04E-09	4.73E-08	1.25E-09	1.67E-08	2.46E-09	2.46E-09	1.22E-09	2.41E-08
2432	258386.58	4085619.62	1.4453E-08	1.93E-07	3.37E-08	3.37E-08	1.88E-08	2.94E-07	2.19E-09	2.94E-08	5.27E-09	5.27E-09	2.89E-09	4.50E-08	1.19E-09	1.59E-08	2.34E-09	2.34E-09	1.16E-09	2.29E-08
2433	257566.91	4085746.68	2.7033E-08	3.61E-07	6.31E-08	6.31E-08	3.52E-08	5.49E-07	4.10E-09	5.50E-08	9.85E-09	9.85E-09	5.41E-09	8.42E-08	2.23E-09	2.98E-08	4.38E-09	4.38E-09	2.17E-09	4.29E-08
2434	257544.11	4085738.35	2.7561E-08	3.68E-07	6.43E-08	6.43E-08	3.58E-08	5.60E-07	4.18E-09	5.61E-08	1.00E-08	1.00E-08	5.52E-09	8.59E-08	2.27E-09	3.03E-08	4.47E-09	4.47E-09	2.21E-09	4.38E-08
2435	257521.3	4085730.02	2.8057E-08	3.75E-07	6.55E-08	6.55E-08	3.65E-08	5.70E-07	4.26E-09	5.71E-08	1.02E-08	1.02E-08	5.62E-09	8.74E-08	2.31E-09	3.09E-08	4.55E-09	4.55E-09	2.25E-09	4.46E-08
2436	257498.5	4085721.69	2.8516E-08	3.81E-07	6.65E-08	6.65E-08	3.71E-08	5.80E-07	4.33E-09	5.80E-08	1.04E-08	1.04E-08	5.71E-09	8.88E-08	2.35E-09	3.14E-08	4.62E-09	4.62E-09	2.29E-09	4.53E-08
2437	257475.7	4085713.37	2.893E-08	3.86E-07	6.75E-08	6.75E-08	3.76E-08	5.88E-07	4.39E-09	5.89E-08	1.05E-08	1.05E-08	5.79E-09	9.01E-08	2.38E-09	3.19E-08	4.69E-09	4.69E-09	2.32E-09	4.59E-08
2438	257452.9	4085705.04	2.9296E-08	3.91E-07	6.83E-08	6.83E-08	3.81E-08	5.95E-07	4.45E-09	5.96E-08	1.07E-08	1.07E-08	5.87E-09	9.13E-08	2.41E-09	3.23E-08	4.75E-09	4.75E-09	2.35E-09	4.65E-08
2439	257430.1	4085696.71	2.9617E-08	3.96E-07	6.91E-08	6.91E-08	3.85E-08	6.02E-07	4.49E-09	6.03E-08	1.08E-08	1.08E-08	5.93E-09	9.23E-08	2.44E-09	3.26E-08	4.80E-09	4.80E-09	2.38E-09	4.70E-08
2440	257407.3	4085688.38	2.9894E-08	3.99E-07	6.97E-08	6.97E-08	3.89E-08	6.08E-07	4.54E-09	6.08E-08	1.09E-08	1.09E-08	5.99E-09	9.31E-08	2.46E-09	3.29E-08	4.84E-09	4.84E-09	2.40E-09	4.75E-08
2441	257384.5	4085680.05	3.0123E-08	4.02E-07	7.03E-08	7.03E-08	3.92E-08	6.12E-07	4.57E-09	6.13E-08	1.10E-08	1.10E-08	6.03E-09	9.38E-08	2.48E-09	3.32E-08	4.88E-09	4.88E-09	2.42E-09	4.78E-08
2442	257361.7	4085671.72	3.0287E-08	4.05E-07	7.07E-08	7.07E-08	3.94E-08	6.16E-07	4.60E-09	6.16E-08	1.10E-08	1.10E-08	6.07E-09	9.44E-08	2.50E-09	3.33E-08	4.91E-09	4.91E-09	2.43E-09	4.81E-08
2443	257338.9	4085663.39	3.0358E-08	4.06E-07	7.08E-08	7.08E-08	3.95E-08	6.17E-07	4.61E-09	6.18E-08	1.11E-08	1.11E-08	6.08E-09	9.46E-08	2.50E-09	3.34E-08	4.92E-09	4.92E-09	2.44E-09	4.82E-08
2444	257316.09	4085655.06	3.0346E-08	4.05E-07	7.08E-08	7.08E-08	3.95E-08	6.17E-07	4.61E-09	6.18E-08	1.11E-08	1.11E-08	6.08E-09	9.45E-08	2.50E-09	3.34E-08	4.92E-09	4.92E-09	2.43E-09	4.82E-08
2445	257293.29	4085646.73	3.02E-08	4.03E-07	7.05E-08	7.05E-08	3.93E-08	6.14E-07	4.58E-09	6.15E-08	1.10E-08	1.10E-08	6.05E-09	9.41E-08	2.49E-09	3.33E-08	4.89E-09	4.89E-09	2.42E-09	4.80E-08
2446	257270.49	4085638.4	2.9872E-08	3.99E-07	6.97E-08	6.97E-08	3.89E-08	6.07E-07	4.53E-09	6.08E-08	1.09E-08	1.09E-08	5.98E-09	9.31E-08	2.46E-09	3.29E-08	4.84E-09	4.84E-09	2.40E-09	4.74E-08
2447	257247.69	4085630.07	2.944E-08	3.93E-07	6.87E-08	6.87E-08	3.83E-08	5.98E-07	4.47E-09	5.99E-08	1.07E-08	1.07E-08	5.90E-09	9.17E-08	2.43E-09	3.24E-08	4.77E-09	4.77E-09	2.36E-09	4.67E-08
2448	257224.89	4085621.74	2.8937E-08	3.87E-07	6.75E-08	6.75E-08	3.76E-08	5.88E-07	4.39E-09	5.89E-08	1.05E-08	1.05E-08	5.80E-09	9.02E-08	2.39E-09	3.19E-08	4.69E-09	4.69E-09	2.32E-09	4.59E-08
2449	257202.09	4085613.41	2.8385E-08	3.79E-07	6.62E-08	6.62E-08	3.69E-08	5.77E-07	4.31E-09	5.78E-08	1.03E-08	1.03E-08	5.68E-09	8.84E-08	2.34E-09	3.13E-08	4.60E-09	4.60E-09	2.28E-09	4.51E-08
2450	257179.29	4085605.08	2.7796E-08	3.71E-07	6.49E-08	6.49E-08	3.62E-08	5.65E-07	4.22E-09	5.66E-08	1.01E-08	1.01E-08	5.57E-09	8.66E-08	2.29E-09	3.06E-08	4.51E-09	4.51E-09	2.23E-09	4.41E-08
2451	257146.33	4085574.71	2.7421E-08	3.66E-07	6.40E-08	6.40E-08	3.57E-08	5.57E-07	4.16E-09	5.58E-08	9.99E-09	9.99E-09	5.49E-09	8.54E-08	2.26E-09	3.02E-08	4.44E-09	4.44E-09	2.20E-09	4.35E-08
2452	257136.18	4085552.66	2.7539E-08	3.68E-07	6.43E-08	6.43E-08	3.58E-08	5.60E-07	4.18E-09	5.60E-08	1.00E-08	1.00E-08	5.52E-09	8.58E-08	2.27E-09	3.03E-08	4.46E-09	4.46E-09	2.21E-09	4.37E-08
2453	257126.03	4085530.61	2.749E-08	3.67E-07	6.41E-08	6.41E-08	3.58E-08	5.59E-07	4.17E-09	5.59E-08	1.00E-08	1.00E-08	5.51E-09	8.56E-08	2.27E-09	3.03E-08	4.46E-09	4.46E-09	2.21E-09	4.37E-08
2454	257115.87	4085508.56	2.7239E-08	3.64E-07	6.35E-08	6.35E-08	3.54E-08	5.54E-07	4.13E-09	5.54E-08	9.92E-09	9.92E-09	5.46E-09	8.49E-08	2.25E-09	3.00E-08	4.41E-09	4.41E-09	2.19E-09	4.33E-08
2455	257105.72	4085486.51	2.6761E-08	3.57E-07	6.24E-08	6.24E-08	3.48E-08	5.44E-07	4.06E-09	5.45E-08	9.75E-09	9.75E-09	5.36E-09	8.34E-08	2.21E-09	2.95E-08	4.34E-09	4.34E-09	2.15E-09	4.25E-08
2456	257095.57	4085464.46	2.6036E-08	3.48E-07	6.07E-08	6.07E-08	3.39E-08	5.29E-07	3.95E-09	5.30E-08	9.48E-09	9.48E-09	5.21E-09	8.11E-08	2.15E-09	2.87E-08	4.22E-09	4.22E-09	2.09E-09	4.13E-08

2457	257085.41	4085442.41	2.5063E-08	3.35E-07	5.85E-08	5.85E-08	3.26E-08	5.09E-07	3.80E-09	5.10E-08	9.13E-09	9.13E-09	5.02E-09	7.81E-08	2.07E-09	2.76E-08	4.06E-09	4.06E-09	2.01E-09	3.98E-08
2458	257075.26	4085420.36	2.3857E-08	3.19E-07	5.57E-08	5.57E-08	3.10E-08	4.85E-07	3.62E-09	4.85E-08	8.69E-09	8.69E-09	4.78E-09	7.43E-08	1.97E-09	2.63E-08	3.87E-09	3.87E-09	1.91E-09	3.79E-08
2459	257065.11	4085398.31	2.2454E-08	3.00E-07	5.24E-08	5.24E-08	2.92E-08	4.56E-07	3.41E-09	4.57E-08	8.18E-09	8.18E-09	4.50E-09	7.00E-08	1.85E-09	2.47E-08	3.64E-09	3.64E-09	1.80E-09	3.57E-08
2460	257054.95	4085376.26	2.0912E-08	2.79E-07	4.88E-08	4.88E-08	2.72E-08	4.25E-07	3.17E-09	4.26E-08	7.62E-09	7.62E-09	4.19E-09	6.52E-08	1.72E-09	2.30E-08	3.39E-09	3.39E-09	1.68E-09	3.32E-08
2461	257044.8	4085354.21	1.9313E-08	2.58E-07	4.51E-08	4.51E-08	2.51E-08	3.93E-07	2.93E-09	3.93E-08	7.04E-09	7.04E-09	3.87E-09	6.02E-08	1.59E-09	2.13E-08	3.13E-09	3.13E-09	1.55E-09	3.07E-08
2462	257034.65	4085332.16	1.7729E-08	2.37E-07	4.14E-08	4.14E-08	2.31E-08	3.60E-07	2.69E-09	3.61E-08	6.46E-09	6.46E-09	3.55E-09	5.52E-08	1.46E-09	1.95E-08	2.87E-09	2.87E-09	1.42E-09	2.82E-08
2463	257024.49	4085310.11	1.6233E-08	2.17E-07	3.79E-08	3.79E-08	2.11E-08	3.30E-07	2.46E-09	3.30E-08	5.91E-09	5.91E-09	3.25E-09	5.06E-08	1.34E-09	1.79E-08	2.63E-09	2.63E-09	1.30E-09	2.58E-08
2464	257014.34	4085288.06	1.4878E-08	1.99E-07	3.47E-08	3.47E-08	1.94E-08	3.02E-07	2.26E-09	3.03E-08	5.42E-09	5.42E-09	2.98E-09	4.64E-08	1.23E-09	1.64E-08	2.41E-09	2.41E-09	1.19E-09	2.36E-08
2465	257004.19	4085266.01	1.369E-08	1.83E-07	3.19E-08	3.19E-08	1.78E-08	2.78E-07	2.08E-09	2.79E-08	4.99E-09	4.99E-09	2.74E-09	4.27E-08	1.13E-09	1.51E-08	2.22E-09	2.22E-09	1.10E-09	2.17E-08
2466	256994.03	4085243.96	1.2675E-08	1.69E-07	2.96E-08	2.96E-08	1.65E-08	2.58E-07	1.92E-09	2.58E-08	4.62E-09	4.62E-09	2.54E-09	3.95E-08	1.04E-09	1.40E-08	2.05E-09	2.05E-09	1.02E-09	2.01E-08
2467	256983.88	4085221.91	1.1838E-08	1.58E-07	2.76E-08	2.76E-08	1.54E-08	2.41E-07	1.80E-09	2.41E-08	4.31E-09	4.31E-09	2.37E-09	3.69E-08	9.76E-10	1.30E-08	1.92E-09	1.92E-09	9.50E-10	1.88E-08
2468	256973.72	4085199.87	1.1157E-08	1.49E-07	2.60E-08	2.60E-08	1.45E-08	2.27E-07	1.69E-09	2.27E-08	4.06E-09	4.06E-09	2.23E-09	3.48E-08	9.20E-10	1.23E-08	1.81E-09	1.81E-09	8.95E-10	1.77E-08
2469	257589.71	4085755.01	2.6479E-08	3.54E-07	6.18E-08	6.18E-08	3.44E-08	5.38E-07	4.02E-09	5.39E-08	9.65E-09	9.65E-09	5.30E-09	8.25E-08	2.18E-09	2.92E-08	4.29E-09	4.29E-09	2.12E-09	4.20E-08
2470	257613.99	4085753.94	2.6512E-08	3.54E-07	6.19E-08	6.19E-08	3.45E-08	5.39E-07	4.02E-09	5.39E-08	9.66E-09	9.66E-09	5.31E-09	8.26E-08	2.19E-09	2.92E-08	4.30E-09	4.30E-09	2.13E-09	4.21E-08
2471	257638.27	4085752.86	2.6503E-08	3.54E-07	6.18E-08	6.18E-08	3.45E-08	5.39E-07	4.02E-09	5.39E-08	9.65E-09	9.65E-09	5.31E-09	8.26E-08	2.18E-09	2.92E-08	4.30E-09	4.30E-09	2.13E-09	4.21E-08
2472	257662.55	4085751.79	2.6444E-08	3.53E-07	6.17E-08	6.17E-08	3.44E-08	5.37E-07	4.01E-09	5.38E-08	9.63E-09	9.63E-09	5.30E-09	8.24E-08	2.18E-09	2.91E-08	4.29E-09	4.29E-09	2.12E-09	4.20E-08
2473	257686.84	4085750.71	2.6337E-08	3.52E-07	6.14E-08	6.14E-08	3.43E-08	5.35E-07	4.00E-09	5.36E-08	9.59E-09	9.59E-09	5.27E-09	8.21E-08	2.17E-09	2.90E-08	4.27E-09	4.27E-09	2.11E-09	4.18E-08
2474	257711.12	4085749.64	2.6175E-08	3.50E-07	6.11E-08	6.11E-08	3.40E-08	5.32E-07	3.97E-09	5.33E-08	9.53E-09	9.53E-09	5.24E-09	8.15E-08	2.16E-09	2.88E-08	4.24E-09	4.24E-09	2.10E-09	4.16E-08
2475	257735.4	4085748.56	2.5963E-08	3.47E-07	6.06E-08	6.06E-08	3.38E-08	5.28E-07	3.94E-09	5.28E-08	9.46E-09	9.46E-09	5.20E-09	8.09E-08	2.14E-09	2.86E-08	4.21E-09	4.21E-09	2.08E-09	4.12E-08
2476	257759.68	4085747.48	2.5703E-08	3.43E-07	6.00E-08	6.00E-08	3.34E-08	5.22E-07	3.90E-09	5.23E-08	9.36E-09	9.36E-09	5.15E-09	8.01E-08	2.12E-09	2.83E-08	4.17E-09	4.17E-09	2.06E-09	4.08E-08
2477	257783.96	4085746.41	2.5402E-08	3.39E-07	5.93E-08	5.93E-08	3.30E-08	5.16E-07	3.86E-09	5.17E-08	9.25E-09	9.25E-09	5.09E-09	7.91E-08	2.09E-09	2.80E-08	4.12E-09	4.12E-09	2.04E-09	4.03E-08
2478	257808.24	4085745.33	2.5019E-08	3.34E-07	5.84E-08	5.84E-08	3.25E-08	5.09E-07	3.80E-09	5.09E-08	9.11E-09	9.11E-09	5.01E-09	7.79E-08	2.06E-09	2.75E-08	4.06E-09	4.06E-09	2.01E-09	3.97E-08
2479	257832.53	4085744.26	2.456E-08	3.28E-07	5.73E-08	5.73E-08	3.19E-08	4.99E-07	3.73E-09	5.00E-08	8.95E-09	8.95E-09	4.92E-09	7.65E-08	2.02E-09	2.70E-08	3.98E-09	3.98E-09	1.97E-09	3.90E-08
2480	257856.81	4085743.18	2.415E-08	3.23E-07	5.63E-08	5.63E-08	3.14E-08	4.91E-07	3.67E-09	4.91E-08	8.80E-09	8.80E-09	4.84E-09	7.52E-08	1.99E-09	2.66E-08	3.91E-09	3.91E-09	1.94E-09	3.83E-08
2481	257881.09	4085742.11	2.3733E-08	3.17E-07	5.54E-08	5.54E-08	3.09E-08	4.82E-07	3.60E-09	4.83E-08	8.65E-09	8.65E-09	4.75E-09	7.39E-08	1.96E-09	2.61E-08	3.85E-09	3.85E-09	1.90E-09	3.77E-08
2482	257905.37	4085741.03	2.3278E-08	3.11E-07	5.43E-08	5.43E-08	3.03E-08	4.73E-07	3.53E-09	4.74E-08	8.48E-09	8.48E-09	4.66E-09	7.25E-08	1.92E-09	2.56E-08	3.77E-09	3.77E-09	1.87E-09	3.70E-08
2483	257929.65	4085739.96	2.2776E-08	3.04E-07	5.31E-08	5.31E-08	2.96E-08	4.63E-07	3.46E-09	4.63E-08	8.30E-09	8.30E-09	4.56E-09	7.10E-08	1.88E-09	2.51E-08	3.69E-09	3.69E-09	1.83E-09	3.62E-08
2484	257953.94	4085738.88	2.2226E-08	2.97E-07	5.19E-08	5.19E-08	2.89E-08	4.52E-07	3.37E-09	4.52E-08	8.10E-09	8.10E-09	4.45E-09	6.92E-08	1.83E-09	2.45E-08	3.60E-09	3.60E-09	1.78E-09	3.53E-08
2485	257978.22	4085737.81	2.1634E-08	2.89E-07	5.05E-08	5.05E-08	2.81E-08	4.40E-07	3.28E-09	4.40E-08	7.88E-09	7.88E-09	4.33E-09	6.74E-08	1.78E-09	2.38E-08	3.51E-09	3.51E-09	1.74E-09	3.44E-08
2486	258002.5	4085736.73	2.1014E-08	2.81E-07	4.90E-08	4.90E-08	2.73E-08	4.27E-07	3.19E-09	4.28E-08	7.66E-09	7.66E-09	4.21E-09	6.55E-08	1.73E-09	2.31E-08	3.41E-09	3.41E-09	1.69E-09	3.34E-08
2487	258026.78	4085735.65	2.0382E-08	2.72E-07	4.76E-08	4.76E-08	2.65E-08	4.14E-07	3.09E-09	4.15E-08	7.42E-09	7.42E-09	4.08E-09	6.35E-08	1.68E-09	2.24E-08	3.30E-09	3.30E-09	1.64E-09	3.24E-08
2488	258051.06	4085734.58	1.9754E-08	2.64E-07	4.61E-08	4.61E-08	2.57E-08	4.01E-07	3.00E-09	4.02E-08	7.20E-09	7.20E-09	3.96E-09	6.15E-08	1.63E-09	2.17E-08	3.20E-09	3.20E-09	1.58E-09	3.14E-08
2489	258075.34	4085733.5	1.9143E-08	2.56E-07	4.47E-08	4.47E-08	2.49E-08	3.89E-07	2.91E-09	3.90E-08	6.97E-09	6.97E-09	3.83E-09	5.96E-08	1.58E-09	2.11E-08	3.10E-09	3.10E-09	1.54E-09	3.04E-08
2490	258099.63	4085732.43	1.8547E-08	2.48E-07	4.33E-08	4.33E-08	2.41E-08	3.77E-07	2.81E-09	3.77E-08	6.76E-09	6.76E-09	3.71E-09	5.78E-08	1.53E-09	2.04E-08	3.01E-09	3.01E-09	1.49E-09	2.95E-08
2491	258123.91	4085731.35	1.7966E-08	2.40E-07	4.19E-08	4.19E-08	2.34E-08	3.65E-07	2.73E-09	3.66E-08	6.54E-09	6.54E-09	3.60E-09	5.60E-08	1.48E-09	1.98E-08	2.91E-09	2.91E-09	1.44E-09	2.85E-08
2492	258148.19	4085730.28	1.7385E-08	2.32E-07	4.06E-08	4.06E-08	2.26E-08	3.53E-07	2.64E-09	3.54E-08	6.33E-09	6.33E-09	3.48E-09	5.42E-08	1.43E-09	1.91E-08	2.82E-09	2.82E-09	1.39E-09	2.76E-08
2493	258172.47	4085729.2	1.6794E-08	2.24E-07	3.92E-08	3.92E-08	2.18E-08	3.41E-07	2.55E-09	3.42E-08	6.12E-09	6.12E-09	3.36E-09	5.23E-08	1.38E-09	1.85E-08	2.72E-09	2.72E-09	1.35E-09	2.67E-08
2494	258196.75	4085728.13	1.6191E-08	2.16E-07	3.78E-08	3.78E-08	2.11E-08	3.29E-07	2.46E-09	3.29E-08	5.90E-09	5.90E-09	3.24E-09	5.04E-08	1.33E-09	1.78E-08	2.62E-09	2.62E-09	1.30E-09	2.57E-08
2495	258221.04	4085727.05	1.5574E-08	2.08E-07	3.63E-08	3.63E-08	2.03E-08	3.17E-07	2.36E-09	3.17E-08	5.67E-09	5.67E-09	3.12E-09	4.85E-08	1.28E-09	1.71E-08	2.52E-09	2.52E-09	1.25E-09	2.47E-08
2496	258245.32	4085725.98	1.4952E-08	2.00E-07	3.49E-08	3.49E-08	1.94E-08	3.04E-07	2.27E-09	3.04E-08	5.45E-09	5.45E-09	2.99E-09	4.66E-08	1.23E-09	1.65E-08	2.42E-09	2.42E-09	1.20E-09	2.37E-08
2497	258269.6	4085724.9	1.4335E-08	1.91E-07	3.34E-08	3.34E-08	1.86E-08	2.91E-07	2.18E-09	2.92E-08	5.22E-09	5.22E-09	2.87E-09	4.47E-08	1.18E-09	1.58E-08	2.32E-09	2.32E-09	1.15E-09	2.28E-08
2498	258293.88	4085723.82	1.3728E-08	1.83E-07	3.20E-08	3.20E-08	1.79E-08	2.79E-07	2.08E-09	2.79E-08	5.00E-09	5.00E-09	2.75E-09	4.28E-08	1.13E-09	1.51E-08	2.22E-09	2.22E-09	1.10E-09	2.18E-08
2499	258318.16	4085722.75	1.3134E-08	1.75E-07	3.06E-08	3.06E-08	1.71E-08	2.67E-07	1.99E-09	2.67E-08	4.78E-09	4.78E-09	2.63E-09	4.09E-08	1.08E-09	1.45E-08	2.13E-09	2.13E-09	1.05E-09	2.09E-08
2500	258342.44	4085721.67	1.2553E-08	1.68E-07	2.93E-08	2.93E-08	1.63E-08	2.55E-07	1.91E-09	2.55E-08	4.57E-09	4.57E-09	2.51E-09	3.91E-08	1.03E-09	1.38E-08	2.03E-09	2.03E-09	1.01E-09	1.99E-08
2501	258366.73	4085720.6	1.1991E-08	1.60E-07	2.80E-08	2.80E-08	1.56E-08	2.44E-07	1.82E-09	2.44E-08	4.37E-09	4.37E-09	2.40E-09	3.74E-08	9.88E-10	1.32E-08	1.94E-09	1.94E-09	9.62E-10	1.90E-08
2502	258391.01	4085719.52	1.1456E-08	1.53E-07	2.67E-08	2.67E-08	1.49E-08	2.33E-07	1.74E-09	2.33E-08	4.17E-09	4.17E-09	2.29E-09	3.57E-08	9.44E-10	1.26E-08	1.86E-09	1.86E-09	9.19E-10	1.82E-08
2503	257572.16	4085846.89	2.1399E-08	2.86E-07	4.99E-08	4.99E-08	2.78E-08	4.35E-07	3.25E-09	4.35E-08	7.80E-09	7.80E-09	4.29E-09	6.67E-08	1.76E-09	2.36E-08	3.47E-09	3.47E-09	1.72E-09	3.40E-08
2504	257550.18	4085838.86	2.1785E-08	2.91E-07	5.08E-08	5.08E-08	2.83E-08	4.43E-07	3.31E-09	4.43E-08	7.94E-09	7.94E-09	4.36E-09	6.79E-08	1.80E-09	2.40E-08	3.53E-09	3.53E-09	1.75E-09	3.46E-08
2505	257528.21	4085830.83	2.2157E-08	2.96E-07	5.17E-08	5.17E-08	2.88E-08	4.50E-07	3.36E-09	4.51E-08	8.07E-09	8.07E-09	4.44E-09	6.90E-08	1.83E-09	2.44E-08	3.59E-09	3.59E-09	1.78E-09	3.52E-08
2506	257506.23	4085822.8	2.2516E-08	3.01E-07	5.25E-08	5.25E-08	2.93E-08	4.58E-07	3.42E-09	4.58E-08	8.20E-09	8.20E-09	4.51E-09	7.01E-08	1.86E-09	2.48E-08	3.65E-09	3.65E-09	1.81E-09	3.58E-08
2507	257484.26	4085814.78	2.2857E-08	3.05E-07	5.33E-08	5.33E-08	2.97E-08	4.65E-07	3.47E-09	4.65E-08	8.33E-09	8.33E-09	4.58E-09	7.12E-08	1.88E-09	2.52E-08	3.70E-09	3.70E-09	1.83E-09	3.63E-08
2508	257462.28	4085806.75	2.3179E-08	3.10E-07	5.41E-08	5.41E-08	3.01E-08	4.71E-07	3.52E-09	4.72E-08	8.44E-09	8.44E-09	4.64E-09	7.22E-08	1.91E-09	2.55E-08	3.76E-09	3.76E-09	1.86E-09	3.68E-08
2509	257440.31	4085798.72	2.3482E-08	3.14E-07	5.48E-08	5.48E-08	3.05E-08	4.77E-07	3.56E-09	4.78E-08	8.55E-09	8.55E-09	4.70E-09	7.32E-08	1.94E-09	2.59E-08	3.81E-09	3.81E-09	1.88E-09	3.73E-08
2510	257418.33	4085790.69	2.3762E-08	3.17E-07	5.54E-08	5.54E-08	3.09E-08	4.83E-07	3.61E-09	4.84E-08	8.66E-09	8.66E-09	4.76E-09	7.40E-08	1.96E-09	2.62E-08	3.85E-09	3.85E-09	1.91E-09	3.77E-08
2511	257396.36	4085782.67	2.4025E-08	3.21E-07	5.61E-08	5.61E-08	3.12E-08	4.88E-07	3.65E-09	4.89E-08	8.75E-09	8.75E-09	4.81E-09	7.48E-08	1.98E-09	2.65E-08	3.89E-09	3.89E-09	1.93E-09	3.81E-08
2512	257374.38	4085774.64	2.4271E-08	3.24E-07	5.66E-08	5.66E-08	3.16E-08	4.93E-07	3.68E-09	4.94E-08	8.84E-09	8.84E-09	4.86E-09	7.56E-08	2.00E-09	2.67E-08	3.93E-09	3.93E-09	1.95E-09	3.85E-08
2513	257352.41	4085766.61	2.4497E-08	3.27E-07	5.72E-08	5.72E-08	3.19E-08	4.98E-07	3.72E-09	4.98E-08	8.92E-09	8.92E-09	4.91E-09	7.63E-08	2.02E-09	2.70E-08	3.97E-09	3.97E-09	1.97E-09	3.89E-08
2514	257330.43	4085758.58	2.4688E-08	3.30E-07	5.76E-08	5.76E-08	3.21E-08	5.02E-07	3.75E-09	5.02E-08	8.99E-09	8.99E-09	4.94E-09	7.69E-08	2.04E-09	2.72E-08	4.00E-09	4.00E-09	1.98E-09	3.92E-08
2515	257308.46	4085750.56	2.4824E-08	3.32E-07	5.79E-08	5.79E-08	3.23E-08	5.05E-07	3.77E-09	5.05E-08	9.04E-09	9.04E-09	4.97E-09	7.73E-08	2.05E-09	2.73E-08	4.02E-09	4.02E-09	1.99E-09	3.94E-08
2516	257286.48	4085742.53	2.489E-08	3.32E-07	5.81E-08	5.81E-08	3.24E-08	5.06E-07	3.78E-09	5.06E-08	9.07E-09	9.07E-09	4.98E-09	7.75E-08	2.05E-09	2.74E-08	4.03E-09	4.03E-09	2.00E-09	3.95E-08
2517	257264.51	4085734.5	2.4868E-08	3.32E-07	5.80E-08	5.80E-08	3.23E-08	5.05E-07	3.77E-09	5.06E-08	9.06E-09	9.06E-09	4.98E-09	7.75E-08	2.05E-09	2.74E-08	4.03E-09	4.03E-09	2.00E-09	3.95E-08
2518	257242.53	4085726.47	2.4761E-08	3.31E-07	5.78E-08	5.78E-08	3.22E-08	5.03E-07	3.76E-09	5.04E-08	9.02E-09	9.02E-09	4.96E-09	7.71E-08	2.04E-09	2.73E-08	4.01E-09	4.01E-09	1.99E-09	3.93E-08
2519	257220.56	4085718.45	2.4617E-08	3.29E-07	5.74E-08	5.74E-08	3.20E-08	5.00E-07	3.74E-09	5.01E-08	8.97E-09	8.97E-09	4.93E-09	7.67E-08	2.03E-09	2.71E-08	3.99E-09	3.99E-09	1.97E-09	3.91E-08
2520	257198.58	4085710.42	2.4404E-08	3.26E-07	5.69E-08	5.69E-08	3.17E-08	4.96E-07	3.70E-09	4.97E-08	8.89E-09	8.89E-09	4.89E-09	7.60E-08	2.01E-09	2.69E-08	3.96E-09	3.96E-09	1.96E-09	3.87E-08
2521	257176.61	4085702.39	2.4125E-08	3.22E-07	5.63E-08	5.63E-08	3.14E-08	4.90E-07	3.66E-09	4.91E-08	8.79E-09	8.79E-09	4.83E-09	7.52E-08	1.99E-09	2.66E-08	3.91E-09	3.91E-09	1.94E-09	3.83E-08
2522	257154.63	4085694.36	2.3821E-08	3.18E-07	5.56E-08	5.56E-08	3.10E-08	4.84E-07	3.62E-09	4.85E-08	8.68E-09	8.68E-09	4.77E-09	7.42E-08	1.96E-09	2.62E-08	3.86E-09	3.86E-09	1.91E-09	3.78E-08
2523	257132.66	4085686.34	2.35E-08	3.14E-07	5.48E-08	5.48E-08	3.06E-08	4.78E-07	3.57E-09	4.78E-08	8.56E-09	8.56E-09	4.71E-09	7.32E-08	1.94E-09	2.59E-08	3.81E-09	3.81E-09	1.89E-09	3.73E-08
2524	257110.68	4085678.31	2.3159E-08	3.09E-07	5.40E-08	5.40E-08	3.01E-08	4.71E-07	3.51E-09	4.71E-08	8.44E-09	8.44E-09	4.64E-09	7.22E-08	1.91E-09	2.55E-08	3.75E-09	3.75E-09	1.86E-09	3.68E-08
2525	257078.92	4085649.03	2.3053E-08	3.08E-07	5.38E-08	5.38E-08	3.00E-08	4.69E-07	3.50E-09	4.69E-08	8.40E-09	8.40E-09	4.62E-09	7.18E-08	1.90E-09	2.54E-08	3.74E-09	3.74E-09	1.85E-09	3.66E-08
2526	257069.14	4085627.78	2.3228E-08	3.10E-07	5.42E-08	5.42E-08	3.02E-08	4.72E-07	3.53E-09	4.73E-08	8.46E-09	8.46E-09	4.65E-09	7.24E-08	1.91E-09	2.56E-08	3.76E-09	3.76E-09	1.86E-09	3.69E-08
2527	257059.35	4085606.53	2.3298E-08	3.11E-07	5.44E-08	5.44E-08	3.03E-08	4.74E-07	3.54E-09	4.74E-08	8.49E-09	8.49E-09	4.67E-09	7.26E-08	1.92E-09	2.57E-08	3.78E-09	3.78E-09	1.87E-09	3.70E-08
2528	257049.57	4085585.28	2.3243E-08	3.10E-07	5.42E-08	5.42E-08	3.02E-08	4.72E-07	3.53E-09	4.73E-08	8.47E-09	8.47E-09	4.65E-09	7.24E-08	1.92E-09	2.56E-08	3.77E-09	3.77E-09	1.86E-09	3.69E-08
2529	257039.78	4085564.03	2.3039E-08	3.08E-07	5.38E-08	5.38E-08	3.00E-08	4.68E-07	3.50E-09	4.69E-08	8.39E-09	8.39E-09	4.61E-09	7.18E-08	1.90E-09	2.54E-08	3.73E-09	3.73E-09	1.85E-09	3.66E-08
2530	257029.99	4085542.78	2.2676E-08	3.03E-07	5.29E-08	5.29E-08	2.95E-08	4.61E-07	3.44E-09	4.61E-08	8.26E-09	8.26E-09	4.54E-09	7.06E-08	1.87E-09	2.50E-08	3.68E-09	3.68E-09	1.82E-09	3.60E-08
2531	257020.21	4085521.53	2.2142E-08	2.96E-07	5.17E-08	5.17E-08	2.88E-08	4.50E-07	3.36E-09	4.51E-08	8.07E-09	8.07E-09	4.43E-09	6.90E-08	1.83E-09	2.44E-08	3.59E-09	3.59E-09	1.78E-09	3.52E-08
2532	257010.42	4085500.28	2.1439E-08	2.86E-07	5.00E-08	5.00E-08	2.79E-08	4.36E-07	3.25E-09	4.36E-08	7.81E-09	7.81E-09	4.29E-09	6.68E-08	1.77E-09	2.36E-08	3.47E-09	3.47E-09	1.72E-09	3.40E-08
2533	257000.64	4085479.03	2.0573E-08	2.75E-07	4.80E-08	4.80E-08	2.68E-08	4.18E-07	3.12E-09	4.19E-08	7.49E-09	7.49E-09	4.12E-09	6.41E-08	1.70E-09	2.27E-08	3.33E-09	3.33E-09	1.65E-09	3.27E-08
2534	256990.85	4085457.78	1.9564E-08	2.61E-07	4.56E-08	4.56E-08	2.54E-08	3.98E-07	2.97E-09	3.98E-08	7.13E-09	7.13E-09	3.92E-09	6.10E-08	1.61E-09	2.15E-08	3.17E-09	3.17E-09	1.57E-09	3.11E-08
2535	256981.07	4085436.52	1.8443E-08	2.46E-07	4.30E-08	4.30E-08	2.40E-08	3.75E-07	2.80E-09	3.75E-08	6.72E-09	6.72E-09	3.69E-09	5.75E-08	1.52E-09	2.03E-08	2.99E-09	2.99E-09	1.48E-09	2.93E-08
2536	256971.28	4085415.27	1.725E-08	2.30E-07	4.02E-08	4.02E-08	2.24E-08	3.51E-07	2.62E-09	3.51E-08	6.28E-09	6.28E-09	3.45E-09	5.37E-08	1.42E-09	1.90E-08	2.80E-09	2.80E-09	1.38E-09	2.74E-08
2537	256961.5	4085394.02	1.6031E-08	2.14E-07	3.74E-08	3.74E-08	2.09E-08	3.26E-07	2.43E-09	3.26E-08	5.84E-09	5.84E-09	3.21E-09	4.99E-08	1.32E-09	1.77E-08	2.60E-09	2.60E-09	1.29E-09	2.55E-08
2538	256951.71	4085372.77	1.4836E-08	1.98E-07	3.46E-08	3.46E-08	1.93E-08	3.02E-07	2.25E-09	3.02E-08	5.40E-09	5.40E-09	2.97E-09	4.62E-08	1.22E-09	1.63E-08	2.40E-09	2.40E-09	1.19E-09	2.36E-08
2539	256941.92	4085351.52	1.3708E-08	1.83E-07	3.20E-08	3.20E-08	1.78E-08	2.79E-07	2.08E-09	2.79E-08	4.99E-09	4.99E-09	2.75E-09	4.27E-08	1.13E-09	1.51E-08	2.22E-09	2.22E-09	1.10E-09	2.18E-08
2540	256932.14	4085330.27	1.2678E-08	1.69E-07	2.96E-08	2.96E-08	1.65E-08	2.58E-07	1.92E-09	2.58E-08	4.62E-09	4.62E-09	2.54E-09	3.95E-08	1.05E-09	1.40E-08	2.05E-09	2.05E-09	1.02E-09	2.01E-08
2541	256922.35	4085309.02	1.176E-08	1.57E-07	2.74E-08	2.74E-08	1.53E-08	2.39E-07	1.78E-09	2.39E-08	4.28E-09	4.28E-09	2.36E-09	3.66E-08	9.69E-10	1.29E-08	1.91E-09	1.91E-09	9.43E-10	1.87E-08
2542	256912.57	4085287.77	1.0975E-08	1.47E-07	2.56E-08	2.56E-08	1.43E-08	2.23E-07	1.67E-09	2.23E-08	4.00E-09	4.00E-09	2.20E-09	3.42E-08	9.05E-10	1.21E-08	1.78E-09	1.78E-09	8.80E-10	1.74E-08
2543	256902.78	4085266.52	1.0315E-08	1.38E-07	2.41E-08	2.41E-08	1.34E-08	2.10E-07	1.57E-09	2.10E-08	3.76E-09	3.76E-09	2.07E-09	3.21E-08	8.50E-10	1.14E-08	1.67E-09	1.67E-09	8.28E-10	1.64E-08
2544	256893	4085245.27	9.7629E-09	1.30E-07	2.28E-08	2.28E-08	1.27E-08	1.98E-07	1.48E-09	1.99E-08	3.56E-09	3.56E-09	1.96E-09	3.04E-08	8.05E-10	1.07E-08	1.58E-09	1.58E-09	7.83E-10	1.55E-08
2545	256883.21	4085224.02	9.3037E-09	1.24E-07	2.17E-08	2.17E-08	1.21E-08	1.89E-07	1.41E-09	1.89E-08	3.39E-09	3.39E-09	1.86E-09	2.90E-08	7.67E-10	1.02E-08	1.51E-09	1.51E-09	7.46E-10	1.48E-08
2546	256873.43	4085202.77	8.9174E-09	1.19E-07	2.08E-08	2.08E-08	1.16E-08	1.81E-07	1.35E-09	1.81E-08	3.25E-09	3.25E-09	1.79E-09	2.78E-08	7.35E-10	9.82E-09	1.45E-09	1.45E-09	7.15E-10	1.42E-08
2547	257594.13	4085854.91	2.0998E-08	2.80E-07	4.90E-08	4.90E-08	2.73E-08	4.27E-07	3.19E-09	4.27E-08	7.65E-09	7.65E-09	4.21E-09	6.54E-08	1.73E-09	2.31E-08	3.40E-09	3.40E-09	1.68E-09	3.33E-08
2548	257618.41	4085853.84	2.0976E-08	2.80E-07	4.89E-08	4.89E-08	2.73E-08	4.26E-07	3.18E-09	4.27E-08	7.64E-09	7.64E-09	4.20E-09	6.54E-08	1.73E-09	2.31E-08	3.40E-09	3.40E-09	1.68E-09	3.33E-08
2549	257642.7	4085852.76	2.0923E-08	2.79E-07	4.88E-08	4.88E-08	2.72E-08	4.25E-07	3.18E-09	4.26E-08	7.62E-09	7.62E-09	4.19E-09	6.52E-08	1.72E-09	2.30E-08	3.39E-09	3.39E-09	1.68E-09	3.32E-08
2550	257666.98	4085851.69	2.0834E-08	2.78E-07	4.86E-08	4.86E-08	2.71E-08	4.23E-07	3.16E-09	4.24E-08	7.59E-09	7.59E-09	4.17E-09	6.49E-08	1.72E-09	2.29E-08	3.38E-09	3.38E-09	1.67E-09	3.31E-08
2551	257691.26	4085850.61	2.0707E-08	2.77E-07	4.83E-08	4.83E-08	2.69E-08	4.21E-07	3.14E-09	4.21E-08	7.54E-09	7.54E-09	4.15E-09	6.45E-08	1.71E-09	2.28E-08	3.36E-09	3.36E-09	1.66E-09	3.29E-08
2552	257715.54	4085849.54	2.0537E-08	2.74E-07	4.79E-08	4.79E-08	2.67E-08	4.17E-07	3.12E-09	4.18E-08	7.48E-09	7.48E-09	4.11E-09	6.40E-08	1.69E-09	2.26E-08	3.33E-09	3.33E-09	1.65E-09	3.26E-08
2553	257739.82	4085848.46	2.032E-08	2.71E-07	4.74E-08	4.74E-08	2.64E-08	4.13E-07	3.08E-09	4.14E-08	7.40E-09	7.40E-09	4.07E-09	6.33E-08	1.67E-09	2.24E-08	3.29E-09	3.29E-09	1.63E-09	3.23E-08
2554	257764.11	4085847.39	1.9965E-08	2.67E-07	4.66E-08	4.66E-08	2.60E-08	4.06E-07	3.03E-09	4.06E-08	7.27E-09	7.27E-09	4.00E-09	6.22E-08	1.65E-09	2.20E-08	3.24E-09	3.24E-09	1.60E-09	3.17E-08
2555	257788.39	4085846.31	1.9655E-08	2.63E-07	4.59E-08	4.59E-08	2.56E-08	3.99E-07	2.98E-09	4.00E-08	7.16E-09	7.16E-09	3.94E-09	6.12E-08	1.62E-09	2.16E-08	3.19E-09	3.19E-09	1.58E-09	3.12E-08
2556	257812.67	4085845.24	1.9329E-08	2.58E-07	4.51E-08	4.51E-08	2.51E-08	3.93E-07	2.93E-09	3.93E-08	7.04E-09	7.04E-09	3.87E-09	6.02E-08	1.59E-09	2.13E-08	3.13E-09	3.13E-09	1.55E-09	3.07E-08
2557	257836.95	4085844.16	1.8976E-08	2.53E-07	4.43E-08	4.43E-08	2.47E-08	3.86E-07	2.88E-09	3.86E-08	6.91E-09	6.91E-09	3.80E-09	5.91E-08	1.56E-09	2.09E-08	3.08E-09	3.08E-09	1.52E-09	3.01E-08
2558	257861.23	4085843.08	1.86E-08	2.48E-07	4.34E-08	4.34E-08	2.42E-08	3.78E-07	2.82E-09	3.78E-08	6.78E-09	6.78E-09	3.73E-09	5.79E-08	1.53E-09	2.05E-08	3.01E-09	3.01E-09	1.49E-09	2.95E-08
2559	257885.51	4085842.01	1.8207E-08	2.43E-07	4.25E-08	4.25E-08	2.37E-08	3.70E-07	2.76E-09	3.70E-08	6.63E-09	6.63E-09	3.65E-09	5.67E-08	1.50E-09	2.00E-08	2.95E-09	2.95E-09	1.46E-09	2.89E-08
2560	257909.8	4085840.93	1.78E-08	2.38E-07	4.15E-08	4.15E-08	2.32E-08	3.62E-07	2.70E-09	3.62E-08	6.48E-09	6.48E-09	3.56E-09	5.55E-08	1.47E-09	1.96E-08	2.88E-09	2.88E-09	1.43E-09	2.83E-08
2561	257934.08	4085839.86	1.7387E-08	2.32E-07	4.06E-08	4.06E-08	2.26E-08	3.53E-07	2.64E-09	3.54E-08	6.33E-09	6.33E-09	3.48E-09	5.42E-08	1.43E-09	1.91E-08	2.82E-09	2.82E-09	1.39E-09	2.76E-08
2562	257958.36	4085838.78	1.6971E-08	2.27E-07	3.96E-08	3.96E-08	2.21E-08	3.45E-07	2.58E-09	3.45E-08	6.18E-09	6.18E-09	3.40E-09	5.29E-08	1.40E-09	1.87E-08	2.75E-09	2.75E-09	1.36E-09	2.69E-08
2563	257982.64	4085837.71	1.6554E-08	2.21E-07	3.86E-08	3.86E-08	2.15E-08	3.36E-07	2.51E-09	3.37E-08	6.03E-09	6.03E-09	3.32E-09	5.16E-08	1.36E-09	1.82E-08	2.68E-09	2.68E-09	1.33E-09	2.63E-08
2564	258006.92	4085836.63	1.6144E-08	2.16E-07	3.77E-08	3.77E-08	2.10E-08	3.28E-07	2.45E-09	3.29E-08	5.88E-09	5.88E-09	3.23E-09	5.03E-08	1.33E-09	1.78E-08	2.62E-09	2.62E-09	1.30E-09	2.56E-08
2565	258031.21	4085835.56	1.5739E-08	2.10E-07	3.67E-08	3.67E-08	2.05E-08	3.20E-07	2.39E-09	3.20E-08	5.73E-09	5.73E-09	3.15E-09	4.90E-08	1.30E-09	1.73E-08	2.55E-09	2.55E-09	1.26E-09	2.50E-08
2566	258055.49	4085834.48	1.5342E-08	2.05E-07	3.58E-08	3.58E-08	2.00E-08	3.12E-07	2.33E-09	3.12E-08	5.59E-09	5.59E-09	3.07E-09	4.78E-08	1.26E-09	1.69E-08	2.49E-09	2.49E-09	1.23E-09	2.44E-08
2567	258079.77	4085833.41	1.4949E-08	2.00E-07	3.49E-08	3.49E-08	1.94E-08	3.04E-07	2.27E-09	3.04E-08	5.45E-09	5.45E-09	2.99E-09	4.66E-08	1.23E-09	1.65E-08	2.42E-09	2.42E-09	1.20E-09	2.37E-08
2568	258104.05	4085832.33	1.4553E-08	1.94E-07	3.40E-08	3.40E-08	1.89E-08	2.96E-07	2.21E-09	2.96E-08	5.30E-09	5.30E-09	2.91E-09	4.53E-08	1.20E-09	1.60E-08	2.36E-09	2.36E-09	1.17E-09	2.31E-08
2569	258128.33	4085831.25	1.4147E-08	1.89E-07	3.30E-08	3.30E-08	1.84E-08	2.88E-07	2.15E-09	2.88E-08	5.15E-09	5.15E-09	2.83E-09	4.41E-08	1.17E-09	1.56E-08	2.29E-09	2.29E-09	1.13E-09	2.25E-08
2570	258152.61	4085830.18	1.3728E-08	1.83E-07	3.20E-08	3.20E-08	1.79E-08	2.79E-07	2.08E-09	2.79E-08	5.00E-09	5.00E-09	2.75E-09	4.28E-08	1.13E-09	1.51E-08	2.22E-09	2.22E-09	1.10E-09	2.18E-08
2571	258176.9	4085829.1	1.3296E-08	1.78E-07	3.10E-08	3.10E-08	1.73E-08	2.70E-07	2.02E-09	2.71E-08	4.84E-09	4.84E-09	2.66E-09	4.14E-08	1.10E-09	1.46E-08	2.15E-09	2.15E-09	1.07E-09	2.11E-08
2572	258201.18	4085828.03	1.2853E-08	1.72E-07	3.00E-08	3.00E-08	1.67E-08	2.61E-07	1.95E-09	2.62E-08	4.68E-09	4.68E-09	2.57E-09	4.00E-08	1.06E-09	1.42E-08	2.08E-09	2.08E-09	1.03E-09	2.04E-08
2573	258225.46	4085826.95	1.2409E-08	1.66E-07	2.90E-08	2.90E-08	1.61E-08	2.52E-07	1.88E-09	2.53E-08	4.52E-09	4.52E-09	2.49E-09	3.87E-08	1.02E-09	1.37E-08	2.01E-09	2.01E-09	9.95E-10	1.97E-08
2574	258249.74	4085825.88	1.1966E-08	1.60E-07	2.79E-08	2.79E-08	1.56E-08	2.43E-07	1.82E-09	2.43E-08	4.36E-09	4.36E-09	2.40E-09	3.73E-08	9.86E-10	1.32E-08	1.94E-09	1.94E-09	9.60E-10	1.90E-08
2575	258274.02	4085824.8	1.153E-08	1.54E-07	2.69E-08	2.69E-08	1.50E-08	2.34E-07	1.75E-09	2.35E-08	4.20E-09	4.20E-09	2.31E-09	3.59E-08	9.50E-10	1.27E-08	1.87E-09	1.87E-09	9.25E-10	1.83E-08
2576	258298.31	4085823.73	1.1104E-08	1.48E-07	2.59E-08	2.59E-08	1.44E-08	2.26E-07	1.69E-09	2.26E-08	4.04E-09	4.04E-09	2.22E-09	3.46E-08	9.15E-10	1.22E-08	1.80E-09	1.80E-09	8.91E-10	1.76E-08
2577	258322.59	4085822.65	1.0685E-08	1.43E-07	2.49E-08	2.49E-08	1.39E-08	2.17E-07	1.62E-09	2.17E-08	3.89E-09	3.89E-09	2.14E-09	3.33E-08	8.81E-10	1.18E-08	1.73E-09	1.73E-09	8.57E-10	1.70E-08
2578	258346.87	4085821.58	1.0275E-08	1.37E-07	2.40E-08	2.40E-08	1.34E-08	2.09E-07	1.56E-09	2.09E-08	3.74E-09	3.74E-09	2.06E-09	3.20E-08	8.47E-10	1.13E-08	1.67E-09	1.67E-09	8.24E-10	1.63E-08
2579	258371.15	4085820.5	9.8759E-09	1.32E-07	2.30E-08	2.30E-08	1.28E-08	2.01E-07	1.50E-09	2.01E-08	3.60E-09	3.60E-09	1.98E-09	3.08E-08	8.14E-10	1.09E-08	1.60E-09	1.60E-09	7.92E-10	1.57E-08

2580	258395.43	4085819.42	9.4896E-09	1.27E-07	2.21E-08	2.21E-08	1.23E-08	1.93E-07	1.44E-09	1.93E-08	3.46E-09	3.46E-09	1.90E-09	2.96E-08	7.82E-10	1.04E-08	1.54E-09	1.54E-09	7.61E-10	1.51E-08
2581	257580.57	4086046.53	1.455E-08	1.94E-07	3.39E-08	3.39E-08	1.89E-08	2.96E-07	2.21E-09	2.96E-08	5.30E-09	5.30E-09	2.91E-09	4.53E-08	1.20E-09	1.60E-08	2.36E-09	2.36E-09	1.17E-09	2.31E-08
2582	257558.17	4086038.35	1.4837E-08	1.98E-07	3.46E-08	3.46E-08	1.93E-08	3.02E-07	2.25E-09	3.02E-08	5.41E-09	5.41E-09	2.97E-09	4.62E-08	1.22E-09	1.63E-08	2.40E-09	2.40E-09	1.19E-09	2.36E-08
2583	257535.76	4086030.16	1.5134E-08	2.02E-07	3.53E-08	3.53E-08	1.97E-08	3.08E-07	2.30E-09	3.08E-08	5.51E-09	5.51E-09	3.03E-09	4.72E-08	1.25E-09	1.67E-08	2.45E-09	2.45E-09	1.21E-09	2.40E-08
2584	257513.35	4086021.98	1.5384E-08	2.05E-07	3.59E-08	3.59E-08	2.00E-08	3.13E-07	2.33E-09	3.13E-08	5.60E-09	5.60E-09	3.08E-09	4.79E-08	1.27E-09	1.69E-08	2.49E-09	2.49E-09	1.23E-09	2.44E-08
2585	257490.94	4086013.79	1.5617E-08	2.09E-07	3.64E-08	3.64E-08	2.03E-08	3.17E-07	2.37E-09	3.18E-08	5.69E-09	5.69E-09	3.13E-09	4.87E-08	1.29E-09	1.72E-08	2.53E-09	2.53E-09	1.25E-09	2.48E-08
2586	257468.53	4086005.6	1.5838E-08	2.12E-07	3.70E-08	3.70E-08	2.06E-08	3.22E-07	2.40E-09	3.22E-08	5.77E-09	5.77E-09	3.17E-09	4.93E-08	1.31E-09	1.74E-08	2.57E-09	2.57E-09	1.27E-09	2.51E-08
2587	257446.13	4085997.42	1.6046E-08	2.14E-07	3.74E-08	3.74E-08	2.09E-08	3.26E-07	2.44E-09	3.27E-08	5.85E-09	5.85E-09	3.21E-09	5.00E-08	1.32E-09	1.77E-08	2.60E-09	2.60E-09	1.29E-09	2.55E-08
2588	257423.72	4085989.23	1.6241E-08	2.17E-07	3.79E-08	3.79E-08	2.11E-08	3.30E-07	2.46E-09	3.30E-08	5.92E-09	5.92E-09	3.25E-09	5.06E-08	1.34E-09	1.79E-08	2.63E-09	2.63E-09	1.30E-09	2.58E-08
2589	257401.31	4085981.05	1.6425E-08	2.19E-07	3.83E-08	3.83E-08	2.14E-08	3.34E-07	2.49E-09	3.34E-08	5.98E-09	5.98E-09	3.29E-09	5.12E-08	1.35E-09	1.81E-08	2.66E-09	2.66E-09	1.32E-09	2.61E-08
2590	257378.9	4085972.86	1.6605E-08	2.22E-07	3.87E-08	3.87E-08	2.16E-08	3.37E-07	2.52E-09	3.38E-08	6.05E-09	6.05E-09	3.33E-09	5.17E-08	1.37E-09	1.83E-08	2.69E-09	2.69E-09	1.33E-09	2.64E-08
2591	257356.49	4085964.68	1.6784E-08	2.24E-07	3.92E-08	3.92E-08	2.18E-08	3.41E-07	2.55E-09	3.42E-08	6.11E-09	6.11E-09	3.36E-09	5.23E-08	1.38E-09	1.85E-08	2.72E-09	2.72E-09	1.35E-09	2.67E-08
2592	257334.09	4085956.49	1.6966E-08	2.27E-07	3.96E-08	3.96E-08	2.21E-08	3.45E-07	2.57E-09	3.45E-08	6.18E-09	6.18E-09	3.40E-09	5.29E-08	1.40E-09	1.87E-08	2.75E-09	2.75E-09	1.36E-09	2.69E-08
2593	257311.68	4085948.3	1.715E-08	2.29E-07	4.00E-08	4.00E-08	2.23E-08	3.49E-07	2.60E-09	3.49E-08	6.25E-09	6.25E-09	3.43E-09	5.34E-08	1.41E-09	1.89E-08	2.78E-09	2.78E-09	1.38E-09	2.72E-08
2594	257289.27	4085940.12	1.7334E-08	2.32E-07	4.04E-08	4.04E-08	2.25E-08	3.52E-07	2.63E-09	3.53E-08	6.31E-09	6.31E-09	3.47E-09	5.40E-08	1.43E-09	1.91E-08	2.81E-09	2.81E-09	1.39E-09	2.75E-08
2595	257266.86	4085931.93	1.7509E-08	2.34E-07	4.08E-08	4.08E-08	2.28E-08	3.56E-07	2.66E-09	3.56E-08	6.38E-09	6.38E-09	3.51E-09	5.45E-08	1.44E-09	1.93E-08	2.84E-09	2.84E-09	1.40E-09	2.78E-08
2596	257244.45	4085923.75	1.7664E-08	2.36E-07	4.12E-08	4.12E-08	2.30E-08	3.59E-07	2.68E-09	3.59E-08	6.43E-09	6.43E-09	3.54E-09	5.50E-08	1.46E-09	1.94E-08	2.86E-09	2.86E-09	1.42E-09	2.80E-08
2597	257222.05	4085915.56	1.7786E-08	2.38E-07	4.15E-08	4.15E-08	2.31E-08	3.61E-07	2.70E-09	3.62E-08	6.48E-09	6.48E-09	3.56E-09	5.54E-08	1.47E-09	1.96E-08	2.88E-09	2.88E-09	1.43E-09	2.82E-08
2598	257199.64	4085907.37	1.7864E-08	2.39E-07	4.17E-08	4.17E-08	2.32E-08	3.63E-07	2.71E-09	3.64E-08	6.51E-09	6.51E-09	3.58E-09	5.57E-08	1.47E-09	1.97E-08	2.90E-09	2.90E-09	1.43E-09	2.84E-08
2599	257177.23	4085899.19	1.7895E-08	2.39E-07	4.18E-08	4.18E-08	2.33E-08	3.64E-07	2.72E-09	3.64E-08	6.52E-09	6.52E-09	3.58E-09	5.58E-08	1.48E-09	1.97E-08	2.90E-09	2.90E-09	1.44E-09	2.84E-08
2600	257154.82	4085891	1.7879E-08	2.39E-07	4.17E-08	4.17E-08	2.33E-08	3.63E-07	2.71E-09	3.64E-08	6.51E-09	6.51E-09	3.58E-09	5.57E-08	1.47E-09	1.97E-08	2.90E-09	2.90E-09	1.43E-09	2.84E-08
2601	257132.41	4085882.82	1.7826E-08	2.38E-07	4.16E-08	4.16E-08	2.32E-08	3.62E-07	2.71E-09	3.63E-08	6.49E-09	6.49E-09	3.57E-09	5.55E-08	1.47E-09	1.96E-08	2.89E-09	2.89E-09	1.43E-09	2.83E-08
2602	257110.01	4085874.63	1.7746E-08	2.37E-07	4.14E-08	4.14E-08	2.31E-08	3.61E-07	2.69E-09	3.61E-08	6.46E-09	6.46E-09	3.55E-09	5.53E-08	1.46E-09	1.95E-08	2.88E-09	2.88E-09	1.42E-09	2.82E-08
2603	257087.6	4085866.45	1.7651E-08	2.36E-07	4.12E-08	4.12E-08	2.30E-08	3.59E-07	2.68E-09	3.59E-08	6.43E-09	6.43E-09	3.53E-09	5.50E-08	1.45E-09	1.94E-08	2.86E-09	2.86E-09	1.42E-09	2.80E-08
2604	257065.19	4085858.26	1.7549E-08	2.34E-07	4.09E-08	4.09E-08	2.28E-08	3.57E-07	2.66E-09	3.57E-08	6.39E-09	6.39E-09	3.51E-09	5.47E-08	1.45E-09	1.93E-08	2.84E-09	2.84E-09	1.41E-09	2.79E-08
2605	257042.78	4085850.07	1.7447E-08	2.33E-07	4.07E-08	4.07E-08	2.27E-08	3.55E-07	2.65E-09	3.55E-08	6.36E-09	6.36E-09	3.49E-09	5.44E-08	1.44E-09	1.92E-08	2.83E-09	2.83E-09	1.40E-09	2.77E-08
2606	257020.37	4085841.89	1.7341E-08	2.32E-07	4.05E-08	4.05E-08	2.26E-08	3.52E-07	2.63E-09	3.53E-08	6.32E-09	6.32E-09	3.47E-09	5.40E-08	1.43E-09	1.91E-08	2.81E-09	2.81E-09	1.39E-09	2.75E-08
2607	256997.97	4085833.7	1.7234E-08	2.30E-07	4.02E-08	4.02E-08	2.24E-08	3.50E-07	2.62E-09	3.51E-08	6.28E-09	6.28E-09	3.45E-09	5.37E-08	1.42E-09	1.90E-08	2.79E-09	2.79E-09	1.38E-09	2.74E-08
2608	256975.56	4085825.52	1.7117E-08	2.29E-07	3.99E-08	3.99E-08	2.23E-08	3.48E-07	2.60E-09	3.48E-08	6.24E-09	6.24E-09	3.43E-09	5.33E-08	1.41E-09	1.88E-08	2.77E-09	2.77E-09	1.37E-09	2.72E-08
2609	256943.17	4085795.66	1.7241E-08	2.30E-07	4.02E-08	4.02E-08	2.24E-08	3.50E-07	2.62E-09	3.51E-08	6.28E-09	6.28E-09	3.45E-09	5.37E-08	1.42E-09	1.90E-08	2.79E-09	2.79E-09	1.38E-09	2.74E-08
2610	256933.19	4085773.99	1.7467E-08	2.33E-07	4.08E-08	4.08E-08	2.27E-08	3.55E-07	2.65E-09	3.55E-08	6.36E-09	6.36E-09	3.50E-09	5.44E-08	1.44E-09	1.92E-08	2.83E-09	2.83E-09	1.40E-09	2.77E-08
2611	256923.22	4085752.32	1.7656E-08	2.36E-07	4.12E-08	4.12E-08	2.30E-08	3.59E-07	2.68E-09	3.59E-08	6.43E-09	6.43E-09	3.54E-09	5.50E-08	1.46E-09	1.94E-08	2.86E-09	2.86E-09	1.42E-09	2.80E-08
2612	256913.24	4085730.65	1.7755E-08	2.37E-07	4.14E-08	4.14E-08	2.31E-08	3.61E-07	2.69E-09	3.61E-08	6.47E-09	6.47E-09	3.56E-09	5.53E-08	1.46E-09	1.95E-08	2.88E-09	2.88E-09	1.42E-09	2.82E-08
2613	256903.26	4085708.99	1.7771E-08	2.37E-07	4.15E-08	4.15E-08	2.31E-08	3.61E-07	2.70E-09	3.62E-08	6.47E-09	6.47E-09	3.56E-09	5.54E-08	1.46E-09	1.96E-08	2.88E-09	2.88E-09	1.43E-09	2.82E-08
2614	256893.28	4085687.32	1.7696E-08	2.36E-07	4.13E-08	4.13E-08	2.30E-08	3.60E-07	2.69E-09	3.60E-08	6.45E-09	6.45E-09	3.54E-09	5.51E-08	1.46E-09	1.95E-08	2.87E-09	2.87E-09	1.42E-09	2.81E-08
2615	256883.3	4085665.65	1.7518E-08	2.34E-07	4.09E-08	4.09E-08	2.28E-08	3.56E-07	2.66E-09	3.56E-08	6.38E-09	6.38E-09	3.51E-09	5.46E-08	1.44E-09	1.93E-08	2.84E-09	2.84E-09	1.41E-09	2.78E-08
2616	256873.32	4085643.98	1.7234E-08	2.30E-07	4.02E-08	4.02E-08	2.24E-08	3.50E-07	2.62E-09	3.51E-08	6.28E-09	6.28E-09	3.45E-09	5.37E-08	1.42E-09	1.90E-08	2.79E-09	2.79E-09	1.38E-09	2.74E-08
2617	256863.35	4085622.31	1.684E-08	2.25E-07	3.93E-08	3.93E-08	2.19E-08	3.42E-07	2.56E-09	3.43E-08	6.13E-09	6.13E-09	3.37E-09	5.25E-08	1.39E-09	1.85E-08	2.73E-09	2.73E-09	1.35E-09	2.67E-08
2618	256853.37	4085600.64	1.6343E-08	2.18E-07	3.81E-08	3.81E-08	2.13E-08	3.32E-07	2.48E-09	3.33E-08	5.95E-09	5.95E-09	3.27E-09	5.09E-08	1.35E-09	1.80E-08	2.65E-09	2.65E-09	1.31E-09	2.60E-08
2619	256843.39	4085578.97	1.5743E-08	2.10E-07	3.67E-08	3.67E-08	2.05E-08	3.20E-07	2.39E-09	3.20E-08	5.73E-09	5.73E-09	3.15E-09	4.90E-08	1.30E-09	1.73E-08	2.55E-09	2.55E-09	1.26E-09	2.50E-08
2620	256833.41	4085557.3	1.5056E-08	2.01E-07	3.51E-08	3.51E-08	1.96E-08	3.06E-07	2.29E-09	3.06E-08	5.48E-09	5.48E-09	3.02E-09	4.69E-08	1.24E-09	1.66E-08	2.44E-09	2.44E-09	1.21E-09	2.39E-08
2621	256823.43	4085535.63	1.4296E-08	1.91E-07	3.34E-08	3.34E-08	1.86E-08	2.91E-07	2.17E-09	2.91E-08	5.21E-09	5.21E-09	2.86E-09	4.45E-08	1.18E-09	1.57E-08	2.32E-09	2.32E-09	1.15E-09	2.27E-08
2622	256813.45	4085513.96	1.3482E-08	1.80E-07	3.15E-08	3.15E-08	1.75E-08	2.74E-07	2.05E-09	2.74E-08	4.91E-09	4.91E-09	2.70E-09	4.20E-08	1.11E-09	1.48E-08	2.19E-09	2.19E-09	1.08E-09	2.14E-08
2623	256803.47	4085492.29	1.264E-08	1.69E-07	2.95E-08	2.95E-08	1.64E-08	2.57E-07	1.92E-09	2.57E-08	4.60E-09	4.60E-09	2.53E-09	3.94E-08	1.04E-09	1.39E-08	2.05E-09	2.05E-09	1.01E-09	2.01E-08
2624	256793.5	4085470.62	1.1798E-08	1.58E-07	2.75E-08	2.75E-08	1.53E-08	2.40E-07	1.79E-09	2.40E-08	4.30E-09	4.30E-09	2.36E-09	3.68E-08	9.73E-10	1.30E-08	1.91E-09	1.91E-09	9.47E-10	1.87E-08
2625	256783.52	4085448.95	1.0984E-08	1.47E-07	2.56E-08	2.56E-08	1.43E-08	2.23E-07	1.67E-09	2.24E-08	4.00E-09	4.00E-09	2.20E-09	3.42E-08	9.05E-10	1.21E-08	1.78E-09	1.78E-09	8.81E-10	1.74E-08
2626	256773.54	4085427.29	1.0222E-08	1.37E-07	2.38E-08	2.38E-08	1.33E-08	2.08E-07	1.55E-09	2.08E-08	3.72E-09	3.72E-09	2.05E-09	3.18E-08	8.43E-10	1.13E-08	1.66E-09	1.66E-09	8.20E-10	1.62E-08
2627	256763.56	4085405.62	9.5315E-09	1.27E-07	2.22E-08	2.22E-08	1.24E-08	1.94E-07	1.45E-09	1.94E-08	3.47E-09	3.47E-09	1.91E-09	2.97E-08	7.86E-10	1.05E-08	1.54E-09	1.54E-09	7.65E-10	1.51E-08
2628	256753.58	4085383.95	8.9247E-09	1.19E-07	2.08E-08	2.08E-08	1.16E-08	1.81E-07	1.35E-09	1.82E-08	3.25E-09	3.25E-09	1.79E-09	2.78E-08	7.36E-10	9.83E-09	1.45E-09	1.45E-09	7.16E-10	1.42E-08
2629	256743.6	4085362.28	8.4036E-09	1.12E-07	1.96E-08	1.96E-08	1.09E-08	1.71E-07	1.28E-09	1.71E-08	3.06E-09	3.06E-09	1.68E-09	2.62E-08	6.93E-10	9.25E-09	1.36E-09	1.36E-09	6.74E-10	1.33E-08
2630	256733.63	4085340.61	7.9645E-09	1.06E-07	1.86E-08	1.86E-08	1.04E-08	1.62E-07	1.21E-09	1.62E-08	2.90E-09	2.90E-09	1.60E-09	2.48E-08	6.57E-10	8.77E-09	1.29E-09	1.29E-09	6.39E-10	1.26E-08
2631	256723.65	4085318.94	7.5928E-09	1.01E-07	1.77E-08	1.77E-08	9.88E-09	1.54E-07	1.15E-09	1.55E-08	2.77E-09	2.77E-09	1.52E-09	2.37E-08	6.26E-10	8.36E-09	1.23E-09	1.23E-09	6.09E-10	1.21E-08
2632	256713.67	4085297.27	7.2793E-09	9.72E-08	1.70E-08	1.70E-08	9.47E-09	1.48E-07	1.10E-09	1.48E-08	2.65E-09	2.65E-09	1.46E-09	2.27E-08	6.00E-10	8.01E-09	1.18E-09	1.18E-09	5.84E-10	1.16E-08
2633	256703.69	4085275.6	7.0097E-09	9.36E-08	1.64E-08	1.64E-08	9.12E-09	1.42E-07	1.06E-09	1.43E-08	2.55E-09	2.55E-09	1.40E-09	2.18E-08	5.78E-10	7.72E-09	1.14E-09	1.14E-09	5.62E-10	1.11E-08
2634	256693.71	4085253.93	6.771E-09	9.04E-08	1.58E-08	1.58E-08	8.81E-09	1.38E-07	1.03E-09	1.38E-08	2.47E-09	2.47E-09	1.36E-09	2.11E-08	5.58E-10	7.46E-09	1.10E-09	1.10E-09	5.43E-10	1.08E-08
2635	256683.73	4085232.26	6.5596E-09	8.76E-08	1.53E-08	1.53E-08	8.53E-09	1.33E-07	9.96E-10	1.33E-08	2.39E-09	2.39E-09	1.31E-09	2.04E-08	5.41E-10	7.22E-09	1.06E-09	1.06E-09	5.26E-10	1.04E-08
2636	256673.76	4085210.59	6.3756E-09	8.52E-08	1.49E-08	1.49E-08	8.29E-09	1.30E-07	9.68E-10	1.30E-08	2.32E-09	2.32E-09	1.28E-09	1.99E-08	5.26E-10	7.02E-09	1.03E-09	1.03E-09	5.11E-10	1.01E-08
2637	257602.98	4086054.72	1.4258E-08	1.90E-07	3.33E-08	3.33E-08	1.85E-08	2.90E-07	2.16E-09	2.90E-08	5.19E-09	5.19E-09	2.86E-09	4.44E-08	1.18E-09	1.57E-08	2.31E-09	2.31E-09	1.14E-09	2.26E-08
2638	257627.26	4086053.64	1.4174E-08	1.89E-07	3.31E-08	3.31E-08	1.84E-08	2.88E-07	2.15E-09	2.88E-08	5.16E-09	5.16E-09	2.84E-09	4.42E-08	1.17E-09	1.56E-08	2.30E-09	2.30E-09	1.14E-09	2.25E-08
2639	257651.55	4086052.57	1.4067E-08	1.88E-07	3.28E-08	3.28E-08	1.83E-08	2.86E-07	2.13E-09	2.86E-08	5.12E-09	5.12E-09	2.82E-09	4.38E-08	1.16E-09	1.55E-08	2.28E-09	2.28E-09	1.13E-09	2.23E-08
2640	257675.83	4086051.49	1.3937E-08	1.86E-07	3.25E-08	3.25E-08	1.81E-08	2.83E-07	2.12E-09	2.84E-08	5.08E-09	5.08E-09	2.79E-09	4.34E-08	1.15E-09	1.53E-08	2.26E-09	2.26E-09	1.12E-09	2.21E-08
2641	257700.11	4086050.42	1.3782E-08	1.84E-07	3.22E-08	3.22E-08	1.79E-08	2.80E-07	2.09E-09	2.80E-08	5.02E-09	5.02E-09	2.76E-09	4.29E-08	1.14E-09	1.52E-08	2.23E-09	2.23E-09	1.11E-09	2.19E-08
2642	257724.39	4086049.34	1.3602E-08	1.82E-07	3.17E-08	3.17E-08	1.77E-08	2.76E-07	2.06E-09	2.77E-08	4.95E-09	4.95E-09	2.72E-09	4.24E-08	1.12E-09	1.50E-08	2.20E-09	2.20E-09	1.09E-09	2.16E-08
2643	257748.67	4086048.27	1.3393E-08	1.79E-07	3.12E-08	3.12E-08	1.74E-08	2.72E-07	2.03E-09	2.73E-08	4.88E-09	4.88E-09	2.68E-09	4.17E-08	1.10E-09	1.47E-08	2.17E-09	2.17E-09	1.07E-09	2.13E-08
2644	257772.96	4086047.19	1.3159E-08	1.76E-07	3.07E-08	3.07E-08	1.71E-08	2.67E-07	2.00E-09	2.68E-08	4.79E-09	4.79E-09	2.64E-09	4.10E-08	1.08E-09	1.45E-08	2.13E-09	2.13E-09	1.06E-09	2.09E-08
2645	257797.24	4086046.11	1.2902E-08	1.72E-07	3.01E-08	3.01E-08	1.68E-08	2.62E-07	1.96E-09	2.63E-08	4.70E-09	4.70E-09	2.58E-09	4.02E-08	1.06E-09	1.42E-08	2.09E-09	2.09E-09	1.04E-09	2.05E-08
2646	257821.52	4086045.04	1.2629E-08	1.69E-07	2.95E-08	2.95E-08	1.64E-08	2.57E-07	1.92E-09	2.57E-08	4.60E-09	4.60E-09	2.53E-09	3.93E-08	1.04E-09	1.39E-08	2.05E-09	2.05E-09	1.01E-09	2.01E-08
2647	257845.8	4086043.96	1.2347E-08	1.65E-07	2.88E-08	2.88E-08	1.61E-08	2.51E-07	1.87E-09	2.51E-08	4.50E-09	4.50E-09	2.47E-09	3.85E-08	1.02E-09	1.36E-08	2.00E-09	2.00E-09	9.90E-10	1.96E-08
2648	257870.08	4086042.89	1.2064E-08	1.61E-07	2.81E-08	2.81E-08	1.57E-08	2.45E-07	1.83E-09	2.46E-08	4.39E-09	4.39E-09	2.42E-09	3.76E-08	9.94E-10	1.33E-08	1.96E-09	1.96E-09	9.68E-10	1.92E-08
2649	257894.36	4086041.81	1.1791E-08	1.58E-07	2.75E-08	2.75E-08	1.53E-08	2.40E-07	1.79E-09	2.40E-08	4.30E-09	4.30E-09	2.36E-09	3.67E-08	9.72E-10	1.30E-08	1.91E-09	1.91E-09	9.46E-10	1.87E-08
2650	257918.65	4086040.74	1.1532E-08	1.54E-07	2.69E-08	2.69E-08	1.50E-08	2.34E-07	1.75E-09	2.35E-08	4.20E-09	4.20E-09	2.31E-09	3.59E-08	9.51E-10	1.27E-08	1.87E-09	1.87E-09	9.25E-10	1.83E-08
2651	257942.93	4086039.66	1.1293E-08	1.51E-07	2.63E-08	2.63E-08	1.47E-08	2.30E-07	1.71E-09	2.30E-08	4.11E-09	4.11E-09	2.26E-09	3.52E-08	9.31E-10	1.24E-08	1.83E-09	1.83E-09	9.06E-10	1.79E-08
2652	257967.21	4086038.59	1.1075E-08	1.48E-07	2.58E-08	2.58E-08	1.44E-08	2.25E-07	1.68E-09	2.25E-08	4.03E-09	4.03E-09	2.22E-09	3.45E-08	9.13E-10	1.22E-08	1.79E-09	1.79E-09	8.88E-10	1.76E-08
2653	257991.49	4086037.51	1.0874E-08	1.45E-07	2.54E-08	2.54E-08	1.41E-08	2.21E-07	1.65E-09	2.21E-08	3.96E-09	3.96E-09	2.18E-09	3.39E-08	8.96E-10	1.20E-08	1.76E-09	1.76E-09	8.72E-10	1.73E-08
2654	258015.77	4086036.44	1.0683E-08	1.43E-07	2.49E-08	2.49E-08	1.39E-08	2.17E-07	1.62E-09	2.17E-08	3.89E-09	3.89E-09	2.14E-09	3.33E-08	8.81E-10	1.18E-08	1.73E-09	1.73E-09	8.57E-10	1.70E-08
2655	258040.06	4086035.36	1.0494E-08	1.40E-07	2.45E-08	2.45E-08	1.36E-08	2.13E-07	1.59E-09	2.14E-08	3.82E-09	3.82E-09	2.10E-09	3.27E-08	8.65E-10	1.16E-08	1.70E-09	1.70E-09	8.42E-10	1.67E-08
2656	258064.34	4086034.28	1.0302E-08	1.38E-07	2.40E-08	2.40E-08	1.34E-08	2.09E-07	1.56E-09	2.10E-08	3.75E-09	3.75E-09	2.06E-09	3.21E-08	8.49E-10	1.13E-08	1.67E-09	1.67E-09	8.27E-10	1.64E-08
2657	258088.62	4086033.21	1.0098E-08	1.35E-07	2.36E-08	2.36E-08	1.31E-08	2.05E-07	1.53E-09	2.05E-08	3.68E-09	3.68E-09	2.02E-09	3.15E-08	8.32E-10	1.11E-08	1.64E-09	1.64E-09	8.10E-10	1.60E-08
2658	258112.9	4086032.13	9.8813E-09	1.32E-07	2.31E-08	2.31E-08	1.29E-08	2.01E-07	1.50E-09	2.01E-08	3.60E-09	3.60E-09	1.98E-09	3.08E-08	8.15E-10	1.09E-08	1.60E-09	1.60E-09	7.93E-10	1.57E-08
2659	258137.18	4086031.06	9.6499E-09	1.29E-07	2.25E-08	2.25E-08	1.26E-08	1.96E-07	1.46E-09	1.96E-08	3.52E-09	3.52E-09	1.93E-09	3.01E-08	7.95E-10	1.06E-08	1.56E-09	1.56E-09	7.74E-10	1.53E-08
2660	258161.46	4086029.98	9.4058E-09	1.26E-07	2.19E-08	2.19E-08	1.22E-08	1.91E-07	1.43E-09	1.91E-08	3.43E-09	3.43E-09	1.88E-09	2.93E-08	7.75E-10	1.04E-08	1.52E-09	1.52E-09	7.55E-10	1.49E-08
2661	258185.75	4086028.91	9.1543E-09	1.22E-07	2.14E-08	2.14E-08	1.19E-08	1.86E-07	1.39E-09	1.86E-08	3.33E-09	3.33E-09	1.83E-09	2.85E-08	7.55E-10	1.01E-08	1.48E-09	1.48E-09	7.34E-10	1.45E-08
2662	258210.03	4086027.83	8.901E-09	1.19E-07	2.08E-08	2.08E-08	1.16E-08	1.81E-07	1.35E-09	1.81E-08	3.24E-09	3.24E-09	1.78E-09	2.77E-08	7.34E-10	9.80E-09	1.44E-09	1.44E-09	7.14E-10	1.41E-08
2663	258234.31	4086026.76	8.6478E-09	1.16E-07	2.02E-08	2.02E-08	1.12E-08	1.76E-07	1.31E-09	1.76E-08	3.15E-09	3.15E-09	1.73E-09	2.69E-08	7.13E-10	9.52E-09	1.40E-09	1.40E-09	6.94E-10	1.37E-08
2664	258258.59	4086025.68	8.3981E-09	1.12E-07	1.96E-08	1.96E-08	1.09E-08	1.71E-07	1.27E-09	1.71E-08	3.06E-09	3.06E-09	1.68E-09	2.62E-08	6.92E-10	9.25E-09	1.36E-09	1.36E-09	6.74E-10	1.33E-08
2665	258282.87	4086024.61	8.1521E-09	1.09E-07	1.90E-08	1.90E-08	1.06E-08	1.66E-07	1.24E-09	1.66E-08	2.97E-09	2.97E-09	1.63E-09	2.54E-08	6.72E-10	8.98E-09	1.32E-09	1.32E-09	6.54E-10	1.29E-08
2666	258307.16	4086023.53	7.9098E-09	1.06E-07	1.85E-08	1.85E-08	1.03E-08	1.61E-07	1.20E-09	1.61E-08	2.88E-09	2.88E-09	1.58E-09	2.46E-08	6.52E-10	8.71E-09	1.28E-09	1.28E-09	6.35E-10	1.26E-08
2667	258331.44	4086022.45	7.6711E-09	1.02E-07	1.79E-08	1.79E-08	9.98E-09	1.56E-07	1.16E-09	1.56E-08	2.79E-09	2.79E-09	1.54E-09	2.39E-08	6.32E-10	8.45E-09	1.24E-09	1.24E-09	6.15E-10	1.22E-08
2668	258355.72	4086021.38	7.4379E-09	9.94E-08	1.74E-08	1.74E-08	9.67E-09	1.51E-07	1.13E-09	1.51E-08	2.71E-09	2.71E-09	1.49E-09	2.32E-08	6.13E-10	8.19E-09	1.21E-09	1.21E-09	5.97E-10	1.18E-08
2669	258380	4086020.3	7.2101E-09	9.63E-08	1.68E-08	1.68E-08	9.38E-09	1.47E-07	1.09E-09	1.47E-08	2.63E-09	2.63E-09	1.44E-09	2.25E-08	5.94E-10	7.94E-09	1.17E-09	1.17E-09	5.78E-10	1.14E-08
2670	258404.28	4086019.23	6.9915E-09	9.34E-08	1.63E-08	1.63E-08	9.09E-09	1.42E-07	1.06E-09	1.42E-08	2.55E-09	2.55E-09	1.40E-09	2.18E-08	5.76E-10	7.70E-09	1.13E-09	1.13E-09	5.61E-10	1.11E-08
2671	257589.14	4086246.23	1.0643E-08	1.42E-07	2.48E-08	2.48E-08	1.38E-08	2.16E-07	1.62E-09	2.17E-08	3.88E-09	3.88E-09	2.13E-09	3.32E-08	8.77E-10	1.17E-08	1.72E-09	1.72E-09	8.54E-10	1.69E-08
2672	257566.45	4086237.94	1.0865E-08	1.45E-07	2.53E-08	2.53E-08	1.41E-08	2.21E-07	1.65E-09	2.21E-08	3.96E-09	3.96E-09	2.18E-09	3.39E-08	8.96E-10	1.20E-08	1.76E-09	1.76E-09	8.72E-10	1.73E-08
2673	257543.75	4086229.65	1.1075E-08	1.48E-07	2.58E-08	2.58E-08	1.44E-08	2.25E-07	1.68E-09	2.25E-08	4.03E-09	4.03E-09	2.22E-09	3.45E-08	9.13E-10	1.22E-08	1.79E-09	1.79E-09	8.88E-10	1.76E-08
2674	257521.06	4086221.36	1.1275E-08	1.51E-07	2.63E-08	2.63E-08	1.47E-08	2.29E-07	1.71E-09	2.29E-08	4.11E-09	4.11E-09	2.26E-09	3.51E-08	9.29E-10	1.24E-08	1.83E-09	1.83E-09	9.05E-10	1.79E-08
2675	257498.37	4086213.07	1.1467E-08	1.53E-07	2.68E-08	2.68E-08	1.49E-08	2.33E-07	1.74E-09	2.33E-08	4.18E-09	4.18E-09	2.30E-09	3.57E-08	9.45E-10	1.26E-08	1.86E-09	1.86E-09	9.20E-10	1.82E-08
2676	257475.68	4086204.78	1.1649E-08	1.56E-07	2.72E-08	2.72E-08	1.52E-08	2.37E-07	1.77E-09	2.37E-08	4.24E-09	4.24E-09	2.33E-09	3.63E-08	9.60E-10	1.28E-08	1.89E-09	1.89E-09	9.35E-10	1.85E-08
2677	257452.98	4086196.49	1.182E-08	1.58E-07	2.76E-08	2.76E-08	1.54E-08	2.40E-07	1.79E-09	2.41E-08	4.31E-09	4.31E-09	2.37E-09	3.68E-08	9.74E-10	1.30E-08	1.92E-09	1.92E-09	9.48E-10	1.88E-08
2678	257430.29	4086188.21	1.1982E-08	1.60E-07	2.80E-08	2.80E-08	1.56E-08	2.44E-07	1.82E-09	2.44E-08	4.36E-09	4.36E-09	2.40E-09	3.73E-08	9.88E-10	1.32E-08	1.94E-09	1.94E-09	9.61E-10	1.90E-08
2679	257407.6	4086179.92	1.2133E-08	1.62E-07	2.83E-08	2.83E-08	1.58E-08	2.47E-07	1.84E-09	2.47E-08	4.42E-09	4.42E-09	2.43E-09	3.78E-08	1.00E-09	1.34E-08	1.97E-09	1.97E-09	9.73E-10	1.93E-08
2680	257384.91	4086171.63	1.2274E-08	1.64E-07	2.86E-08	2.86E-08	1.60E-08	2.49E-07	1.86E-09	2.50E-08	4.47E-09	4.47E-09	2.46E-09	3.82E-08	1.01E-09	1.35E-08	1.99E-09	1.99E-09	9.85E-10	1.95E-08
2681	257362.21	4086163.34	1.2401E-08	1.66E-07	2.89E-08	2.89E-08	1.61E-08	2.52E-07	1.88E-09	2.52E-08	4.52E-09	4.52E-09	2.48E-09	3.86E-08	1.02E-09	1.37E-08	2.01E-09	2.01E-09	9.95E-10	1.97E-08
2682	257339.52	4086155.05	1.2533E-08	1.67E-07	2.92E-08	2.92E-08	1.63E-08	2.55E-07	1.90E-09	2.55E-08	4.57E-09	4.57E-09	2.51E-09	3.90E-08	1.03E-09	1.38E-08	2.03E-09	2.03E-09	1.01E-09	1.99E-08
2683	257316.83	4086146.76	1.2684E-08	1.69E-07	2.96E-08	2.96E-08	1.65E-08	2.58E-07	1.93E-09	2.58E-08	4.62E-09	4.62E-09	2.54E-09	3.95E-08	1.05E-09	1.40E-08	2.06E-09	2.06E-09	1.02E-09	2.01E-08
2684	257294.14	4086138.47	1.2817E-08	1.71E-07	2.99E-08	2.99E-08	1.67E-08	2.60E-07	1.95E-09	2.61E-08	4.67E-09	4.67E-09	2.57E-09	3.99E-08	1.06E-09	1.41E-08	2.08E-09	2.08E-09	1.03E-09	2.04E-08
2685	257271.44	4086130.18	1.2941E-08	1.73E-07	3.02E-08	3.02E-08	1.68E-08	2.63E-07	1.96E-09	2.63E-08	4.71E-09	4.71E-09	2.59E-09	4.03E-08	1.07E-09	1.42E-08	2.10E-09	2.10E-09	1.04E-09	2.05E-08
2686	257248.75	4086121.89	1.3068E-08	1.75E-07	3.05E-08	3.05E-08	1.70E-08	2.66E-07	1.98E-09	2.66E-08	4.76E-09	4.76E-09	2.62E-09	4.07E-08	1.08E-09	1.44E-08	2.12E-09	2.12E-09	1.05E-09	2.08E-08
2687	257226.06	4086113.6	1.3198E-08	1.76E-07	3.08E-08	3.08E-08	1.72E-08	2.68E-07	2.00E-09	2.69E-08	4.81E-09	4.81E-09	2.64E-09	4.11E-08	1.09E-09	1.45E-08	2.14E-09	2.14E-09	1.06E-09	2.10E-08
2688	257203.37	4086105.31	1.3325E-08	1.78E-07	3.11E-08	3.11E-08	1.73E-08	2.71E-07	2.02E-09	2.71E-08	4.85E-09	4.85E-09	2.67E-09	4.15E-08	1.10E-09	1.47E-08	2.16E-09	2.16E-09	1.07E-09	2.12E-08
2689	257180.67	4086097.02	1.3445E-08	1.80E-07	3.14E-08	3.14E-08	1.75E-08	2.73E-07	2.04E-09	2.74E-08	4.90E-09	4.90E-09	2.69E-09	4.19E-08	1.11E-09	1.48E-08	2.18E-09	2.18E-09	1.08E-09	2.13E-08
2690	257157.98	4086088.73	1.3553E-08	1.81E-07	3.16E-08	3.16E-08	1.76E-08	2.75E-07	2.06E-09	2.76E-08	4.94E-09	4.94E-09	2.71E-09	4.22E-08	1.12E-09	1.49E-08	2.20E-09	2.20E-09	1.09E-09	2.15E-08
2691	257135.29	4086080.44	1.3639E-08	1.82E-07	3.18E-08	3.18E-08	1.77E-08	2.77E-07	2.07E-09	2.78E-08	4.97E-09	4.97E-09	2.73E-09	4.25E-08	1.12E-09	1.50E-08	2.21E-09	2.21E-09	1.09E-09	2.17E-08
2692	257112.6	4086072.15	1.3697E-08	1.83E-07	3.20E-08	3.20E-08	1.78E-08	2.78E-07	2.08E-09	2.79E-08	4.99E-09	4.99E-09	2.74E-09	4.27E-08	1.13E-09	1.51E-08	2.22E-09	2.22E-09	1.10E-09	2.17E-08
2693	257089.9	4086063.86	1.373E-08	1.83E-07	3.20E-08	3.20E-08	1.79E-08	2.79E-07	2.08E-09	2.79E-08	5.00E-09	5.00E-09	2.75E-09	4.28E-08	1.13E-09	1.51E-08	2.23E-09	2.23E-09	1.10E-09	2.18E-08
2694	257067.21	4086055.57	1.3735E-08	1.83E-07	3.20E-08	3.20E-08	1.79E-08	2.79E-07	2.08E-09	2.80E-08	5.00E-09	5.00E-09	2.75E-09	4.28E-08	1.13E-09	1.51E-08	2.23E-09	2.23E-09	1.10E-09	2.18E-08
2695	257044.52	4086047.28	1.3722E-08	1.83E-07	3.20E-08	3.20E-08	1.78E-08	2.79E-07	2.08E-09	2.79E-08	5.00E-09	5.00E-09	2.75E-09	4.28E-08	1.13E-09	1.51E-08	2.22E-09	2.22E-09	1.10E-09	2.18E-08
2696	257021.83	4086038.99	1.3695E-08	1.83E-07	3.20E-08	3.20E-08	1.78E-08	2.78E-07	2.08E-09	2.79E-08	4.99E-09	4.99E-09	2.74E-09	4.27E-08	1.13E-09	1.51E-08	2.22E-09	2.22E-09	1.10E-09	2.17E-08
2697	256999.13	4086030.7	1.366E-08	1.82E-07	3.19E-08	3.19E-08	1.78E-08	2.78E-07	2.07E-09	2.78E-08	4.98E-09	4.98E-09	2.74E-09	4.26E-08	1.13E-09	1.50E-08	2.21E-09	2.21E-09	1.10E-09	2.17E-08
2698	256976.44	4086022.41	1.3628E-08	1.82E-07	3.18E-08	3.18E-08	1.77E-08	2.77E-07	2.07E-09	2.77E-08	4.96E-09	4.96E-09	2.73E-09	4.25E-08	1.12E-09	1.50E-08	2.21E-09	2.21E-09	1.09E-09	2.16E-08
2699	256953.75	4086014.12	1.3595E-08	1.82E-07	3.17E-08	3.17E-08	1.77E-08	2.76E-07	2.06E-09	2.77E-08	4.95E-09	4.95E-09	2.72E-09	4.24E-08	1.12E-09	1.50E-08	2.20E-09	2.20E-09	1.09E-09	2.16E-08
2700	256931.06	4086005.83	1.3567E-08	1.81E-07	3.17E-08	3.17E-08	1.76E-08	2.76E-07	2.06E-09	2.76E-08	4.94E-09	4.94E-09	2.72E-09	4.23E-08	1.12E-09	1.49E-08	2.20E-09	2.20E-09	1.09E-09	2.15E-08
2701	256908.36	4085997.54	1.3542E-08	1.81E-07	3.16E-08	3.16E-08	1.76E-08	2.75E-07	2.06E-09	2.76E-08	4.93E-09	4.93E-09	2.71E-09	4.22E-08	1.12E-09	1.49E-08	2.19E-09	2.19E-09	1.09E-09	2.15E-08
2702	256885.67	4085989.25	1.3516E-08	1.81E-07	3.15E-08	3.15E-08	1.76E-08	2.75E-07	2.05E-09	2.75E-08	4.92E-09	4.92E-09	2.71E-09	4.21E-08	1.11E-09	1.49E-08	2.19E-09	2.19E-09	1.08E-09	2.15E-08

2703	256862.98	4085980.96	1.3489E-08	1.80E-07	3.15E-08	3.15E-08	1.75E-08	2.74E-07	2.05E-09	2.74E-08	4.91E-09	4.91E-09	2.70E-09	4.20E-08	1.11E-09	1.49E-08	2.19E-09	2.19E-09	1.08E-09	2.14E-08
2704	256840.29	4085972.67	1.3458E-08	1.80E-07	3.14E-08	3.14E-08	1.75E-08	2.74E-07	2.04E-09	2.74E-08	4.90E-09	4.90E-09	2.70E-09	4.19E-08	1.11E-09	1.48E-08	2.18E-09	2.18E-09	1.08E-09	2.14E-08
2705	256807.49	4085942.44	1.3642E-08	1.82E-07	3.18E-08	3.18E-08	1.77E-08	2.77E-07	2.07E-09	2.78E-08	4.97E-09	4.97E-09	2.73E-09	4.25E-08	1.12E-09	1.50E-08	2.21E-09	2.21E-09	1.09E-09	2.17E-08
2706	256797.38	4085920.49	1.3846E-08	1.85E-07	3.23E-08	3.23E-08	1.80E-08	2.81E-07	2.10E-09	2.82E-08	5.04E-09	5.04E-09	2.77E-09	4.31E-08	1.14E-09	1.52E-08	2.24E-09	2.24E-09	1.11E-09	2.20E-08
2707	256787.28	4085898.55	1.4028E-08	1.87E-07	3.27E-08	3.27E-08	1.82E-08	2.85E-07	2.13E-09	2.85E-08	5.11E-09	5.11E-09	2.81E-09	4.37E-08	1.16E-09	1.54E-08	2.27E-09	2.27E-09	1.13E-09	2.23E-08
2708	256777.17	4085876.61	1.4176E-08	1.89E-07	3.31E-08	3.31E-08	1.84E-08	2.88E-07	2.15E-09	2.88E-08	5.16E-09	5.16E-09	2.84E-09	4.42E-08	1.17E-09	1.56E-08	2.30E-09	2.30E-09	1.14E-09	2.25E-08
2709	256767.07	4085854.66	1.4284E-08	1.91E-07	3.33E-08	3.33E-08	1.86E-08	2.90E-07	2.17E-09	2.91E-08	5.20E-09	5.20E-09	2.86E-09	4.45E-08	1.18E-09	1.57E-08	2.31E-09	2.31E-09	1.15E-09	2.27E-08
2710	256756.96	4085832.72	1.4336E-08	1.92E-07	3.34E-08	3.34E-08	1.86E-08	2.91E-07	2.18E-09	2.92E-08	5.22E-09	5.22E-09	2.87E-09	4.47E-08	1.18E-09	1.58E-08	2.32E-09	2.32E-09	1.15E-09	2.28E-08
2711	256746.86	4085810.77	1.4329E-08	1.91E-07	3.34E-08	3.34E-08	1.86E-08	2.91E-07	2.17E-09	2.92E-08	5.22E-09	5.22E-09	2.87E-09	4.46E-08	1.18E-09	1.58E-08	2.32E-09	2.32E-09	1.15E-09	2.28E-08
2712	256736.75	4085788.83	1.4256E-08	1.90E-07	3.33E-08	3.33E-08	1.85E-08	2.90E-07	2.16E-09	2.90E-08	5.19E-09	5.19E-09	2.86E-09	4.44E-08	1.18E-09	1.57E-08	2.31E-09	2.31E-09	1.14E-09	2.26E-08
2713	256726.65	4085766.88	1.411E-08	1.88E-07	3.29E-08	3.29E-08	1.84E-08	2.87E-07	2.14E-09	2.87E-08	5.14E-09	5.14E-09	2.83E-09	4.40E-08	1.16E-09	1.55E-08	2.29E-09	2.29E-09	1.13E-09	2.24E-08
2714	256716.54	4085744.94	1.3892E-08	1.86E-07	3.24E-08	3.24E-08	1.81E-08	2.82E-07	2.11E-09	2.83E-08	5.06E-09	5.06E-09	2.78E-09	4.33E-08	1.15E-09	1.53E-08	2.25E-09	2.25E-09	1.11E-09	2.21E-08
2715	256706.44	4085722.99	1.36E-08	1.82E-07	3.17E-08	3.17E-08	1.77E-08	2.76E-07	2.06E-09	2.77E-08	4.95E-09	4.95E-09	2.72E-09	4.24E-08	1.12E-09	1.50E-08	2.20E-09	2.20E-09	1.09E-09	2.16E-08
2716	256696.33	4085701.05	1.3263E-08	1.77E-07	3.09E-08	3.09E-08	1.73E-08	2.70E-07	2.01E-09	2.70E-08	4.83E-09	4.83E-09	2.66E-09	4.13E-08	1.09E-09	1.46E-08	2.15E-09	2.15E-09	1.06E-09	2.11E-08
2717	256686.23	4085679.11	1.2831E-08	1.71E-07	2.99E-08	2.99E-08	1.67E-08	2.61E-07	1.95E-09	2.61E-08	4.67E-09	4.67E-09	2.57E-09	4.00E-08	1.06E-09	1.41E-08	2.08E-09	2.08E-09	1.03E-09	2.04E-08
2718	256676.12	4085657.16	1.2338E-08	1.65E-07	2.88E-08	2.88E-08	1.60E-08	2.51E-07	1.87E-09	2.51E-08	4.49E-09	4.49E-09	2.47E-09	3.84E-08	1.02E-09	1.36E-08	2.00E-09	2.00E-09	9.90E-10	1.96E-08
2719	256666.02	4085635.22	1.1791E-08	1.58E-07	2.75E-08	2.75E-08	1.53E-08	2.40E-07	1.79E-09	2.40E-08	4.30E-09	4.30E-09	2.36E-09	3.67E-08	9.72E-10	1.30E-08	1.91E-09	1.91E-09	9.46E-10	1.87E-08
2720	256655.91	4085613.27	1.1199E-08	1.50E-07	2.61E-08	2.61E-08	1.46E-08	2.28E-07	1.70E-09	2.28E-08	4.08E-09	4.08E-09	2.24E-09	3.49E-08	9.23E-10	1.23E-08	1.82E-09	1.82E-09	8.98E-10	1.78E-08
2721	256645.81	4085591.33	1.0579E-08	1.41E-07	2.47E-08	2.47E-08	1.38E-08	2.15E-07	1.61E-09	2.15E-08	3.85E-09	3.85E-09	2.12E-09	3.30E-08	8.72E-10	1.16E-08	1.71E-09	1.71E-09	8.49E-10	1.68E-08
2722	256635.7	4085569.38	9.9451E-09	1.33E-07	2.32E-08	2.32E-08	1.29E-08	2.02E-07	1.51E-09	2.02E-08	3.62E-09	3.62E-09	1.99E-09	3.10E-08	8.20E-10	1.09E-08	1.61E-09	1.61E-09	7.98E-10	1.58E-08
2723	256625.6	4085547.44	9.3183E-09	1.24E-07	2.17E-08	2.17E-08	1.21E-08	1.89E-07	1.41E-09	1.90E-08	3.39E-09	3.39E-09	1.87E-09	2.90E-08	7.68E-10	1.03E-08	1.51E-09	1.51E-09	7.48E-10	1.48E-08
2724	256615.49	4085525.5	8.717E-09	1.16E-07	2.03E-08	2.03E-08	1.13E-08	1.77E-07	1.32E-09	1.77E-08	3.18E-09	3.18E-09	1.75E-09	2.72E-08	7.19E-10	9.60E-09	1.41E-09	1.41E-09	6.99E-10	1.38E-08
2725	256605.39	4085503.55	8.1576E-09	1.09E-07	1.90E-08	1.90E-08	1.06E-08	1.66E-07	1.24E-09	1.66E-08	2.97E-09	2.97E-09	1.63E-09	2.54E-08	6.72E-10	8.98E-09	1.32E-09	1.32E-09	6.54E-10	1.30E-08
2726	256595.28	4085481.61	7.6511E-09	1.02E-07	1.79E-08	1.79E-08	9.95E-09	1.56E-07	1.16E-09	1.56E-08	2.79E-09	2.79E-09	1.53E-09	2.38E-08	6.31E-10	8.42E-09	1.24E-09	1.24E-09	6.14E-10	1.21E-08
2727	256585.18	4085459.66	7.2046E-09	9.62E-08	1.68E-08	1.68E-08	9.37E-09	1.46E-07	1.09E-09	1.47E-08	2.62E-09	2.62E-09	1.44E-09	2.24E-08	5.94E-10	7.93E-09	1.17E-09	1.17E-09	5.78E-10	1.14E-08
2728	256575.07	4085437.72	6.822E-09	9.11E-08	1.59E-08	1.59E-08	8.87E-09	1.39E-07	1.04E-09	1.39E-08	2.49E-09	2.49E-09	1.37E-09	2.13E-08	5.62E-10	7.51E-09	1.11E-09	1.11E-09	5.47E-10	1.08E-08
2729	256564.97	4085415.77	6.4995E-09	8.68E-08	1.52E-08	1.52E-08	8.45E-09	1.32E-07	9.86E-10	1.32E-08	2.37E-09	2.37E-09	1.30E-09	2.02E-08	5.36E-10	7.16E-09	1.05E-09	1.05E-09	5.21E-10	1.03E-08
2730	256554.86	4085393.83	6.2298E-09	8.32E-08	1.45E-08	1.45E-08	8.10E-09	1.27E-07	9.45E-10	1.27E-08	2.27E-09	2.27E-09	1.25E-09	1.94E-08	5.14E-10	6.86E-09	1.01E-09	1.01E-09	5.00E-10	9.89E-09
2731	256544.76	4085371.88	6.002E-09	8.02E-08	1.40E-08	1.40E-08	7.81E-09	1.22E-07	9.11E-10	1.22E-08	2.19E-09	2.19E-09	1.20E-09	1.87E-08	4.95E-10	6.61E-09	9.73E-10	9.73E-10	4.82E-10	9.53E-09
2732	256534.65	4085349.94	5.8053E-09	7.75E-08	1.35E-08	1.35E-08	7.55E-09	1.18E-07	8.81E-10	1.18E-08	2.11E-09	2.11E-09	1.16E-09	1.81E-08	4.79E-10	6.39E-09	9.41E-10	9.41E-10	4.66E-10	9.22E-09
2733	256524.54	4085328	5.6322E-09	7.52E-08	1.31E-08	1.31E-08	7.33E-09	1.14E-07	8.55E-10	1.15E-08	2.05E-09	2.05E-09	1.13E-09	1.75E-08	4.64E-10	6.20E-09	9.13E-10	9.13E-10	4.52E-10	8.94E-09
2734	256514.44	4085306.05	5.4755E-09	7.31E-08	1.28E-08	1.28E-08	7.12E-09	1.11E-07	8.31E-10	1.11E-08	1.99E-09	1.99E-09	1.10E-09	1.71E-08	4.51E-10	6.03E-09	8.87E-10	8.87E-10	4.39E-10	8.69E-09
2735	256504.33	4085284.11	5.3279E-09	7.12E-08	1.24E-08	1.24E-08	6.93E-09	1.08E-07	8.09E-10	1.08E-08	1.94E-09	1.94E-09	1.07E-09	1.66E-08	4.39E-10	5.87E-09	8.64E-10	8.64E-10	4.27E-10	8.46E-09
2736	256494.23	4085262.16	5.193E-09	6.94E-08	1.21E-08	1.21E-08	6.75E-09	1.06E-07	7.88E-10	1.06E-08	1.89E-09	1.89E-09	1.04E-09	1.62E-08	4.28E-10	5.72E-09	8.42E-10	8.42E-10	4.17E-10	8.25E-09
2737	256484.12	4085240.22	5.0673E-09	6.77E-08	1.18E-08	1.18E-08	6.59E-09	1.03E-07	7.69E-10	1.03E-08	1.85E-09	1.85E-09	1.01E-09	1.58E-08	4.18E-10	5.58E-09	8.21E-10	8.21E-10	4.07E-10	8.05E-09
2738	256474.02	4085218.27	4.9562E-09	6.62E-08	1.16E-08	1.16E-08	6.45E-09	1.01E-07	7.52E-10	1.01E-08	1.81E-09	1.81E-09	9.93E-10	1.54E-08	4.09E-10	5.46E-09	8.03E-10	8.03E-10	3.98E-10	7.87E-09
2739	257611.83	4086254.52	1.0408E-08	1.39E-07	2.43E-08	2.43E-08	1.35E-08	2.12E-07	1.58E-09	2.12E-08	3.79E-09	3.79E-09	2.08E-09	3.24E-08	8.58E-10	1.15E-08	1.69E-09	1.69E-09	8.35E-10	1.65E-08
2740	257636.11	4086253.45	1.0293E-08	1.37E-07	2.40E-08	2.40E-08	1.34E-08	2.09E-07	1.56E-09	2.09E-08	3.75E-09	3.75E-09	2.06E-09	3.21E-08	8.48E-10	1.13E-08	1.67E-09	1.67E-09	8.26E-10	1.63E-08
2741	257660.4	4086252.37	1.0166E-08	1.36E-07	2.37E-08	2.37E-08	1.32E-08	2.07E-07	1.54E-09	2.07E-08	3.70E-09	3.70E-09	2.04E-09	3.17E-08	8.38E-10	1.12E-08	1.65E-09	1.65E-09	8.16E-10	1.61E-08
2742	257684.68	4086251.3	1.0025E-08	1.34E-07	2.34E-08	2.34E-08	1.30E-08	2.04E-07	1.52E-09	2.04E-08	3.65E-09	3.65E-09	2.01E-09	3.12E-08	8.26E-10	1.10E-08	1.62E-09	1.62E-09	8.04E-10	1.59E-08
2743	257708.96	4086250.22	9.8759E-09	1.32E-07	2.30E-08	2.30E-08	1.28E-08	2.01E-07	1.50E-09	2.01E-08	3.60E-09	3.60E-09	1.98E-09	3.08E-08	8.14E-10	1.09E-08	1.60E-09	1.60E-09	7.92E-10	1.57E-08
2744	257733.24	4086249.15	9.7173E-09	1.30E-07	2.27E-08	2.27E-08	1.26E-08	1.97E-07	1.47E-09	1.98E-08	3.54E-09	3.54E-09	1.95E-09	3.03E-08	8.01E-10	1.07E-08	1.57E-09	1.57E-09	7.80E-10	1.54E-08
2745	257757.52	4086248.07	9.557E-09	1.28E-07	2.23E-08	2.23E-08	1.24E-08	1.94E-07	1.45E-09	1.94E-08	3.48E-09	3.48E-09	1.91E-09	2.98E-08	7.88E-10	1.05E-08	1.55E-09	1.55E-09	7.67E-10	1.52E-08
2746	257781.8	4086246.99	9.393E-09	1.25E-07	2.19E-08	2.19E-08	1.22E-08	1.91E-07	1.43E-09	1.91E-08	3.42E-09	3.42E-09	1.88E-09	2.93E-08	7.74E-10	1.03E-08	1.52E-09	1.52E-09	7.54E-10	1.49E-08
2747	257806.09	4086245.92	9.2235E-09	1.23E-07	2.15E-08	2.15E-08	1.20E-08	1.87E-07	1.40E-09	1.88E-08	3.36E-09	3.36E-09	1.85E-09	2.87E-08	7.60E-10	1.02E-08	1.49E-09	1.49E-09	7.40E-10	1.46E-08
2748	257830.37	4086244.84	9.0504E-09	1.21E-07	2.11E-08	2.11E-08	1.18E-08	1.84E-07	1.37E-09	1.84E-08	3.30E-09	3.30E-09	1.81E-09	2.82E-08	7.46E-10	9.96E-09	1.47E-09	1.47E-09	7.26E-10	1.44E-08
2749	257854.65	4086243.77	8.8937E-09	1.19E-07	2.08E-08	2.08E-08	1.16E-08	1.81E-07	1.35E-09	1.81E-08	3.24E-09	3.24E-09	1.78E-09	2.77E-08	7.33E-10	9.79E-09	1.44E-09	1.44E-09	7.14E-10	1.41E-08
2750	257878.93	4086242.69	8.7279E-09	1.17E-07	2.04E-08	2.04E-08	1.14E-08	1.77E-07	1.32E-09	1.78E-08	3.18E-09	3.18E-09	1.75E-09	2.72E-08	7.19E-10	9.61E-09	1.41E-09	1.41E-09	7.00E-10	1.39E-08
2751	257903.21	4086241.62	8.5694E-09	1.14E-07	2.00E-08	2.00E-08	1.11E-08	1.74E-07	1.30E-09	1.74E-08	3.12E-09	3.12E-09	1.72E-09	2.67E-08	7.06E-10	9.44E-09	1.39E-09	1.39E-09	6.87E-10	1.36E-08
2752	257927.5	4086240.54	8.42E-09	1.12E-07	1.96E-08	1.96E-08	1.10E-08	1.71E-07	1.28E-09	1.71E-08	3.07E-09	3.07E-09	1.69E-09	2.62E-08	6.94E-10	9.27E-09	1.36E-09	1.36E-09	6.75E-10	1.34E-08
2753	257951.78	4086239.47	8.2724E-09	1.11E-07	1.93E-08	1.93E-08	1.08E-08	1.68E-07	1.26E-09	1.68E-08	3.01E-09	3.01E-09	1.66E-09	2.58E-08	6.82E-10	9.11E-09	1.34E-09	1.34E-09	6.64E-10	1.31E-08
2754	257976.06	4086238.39	8.1266E-09	1.09E-07	1.90E-08	1.90E-08	1.06E-08	1.65E-07	1.23E-09	1.65E-08	2.96E-09	2.96E-09	1.63E-09	2.53E-08	6.70E-10	8.95E-09	1.32E-09	1.32E-09	6.52E-10	1.29E-08
2755	258000.34	4086237.32	7.9809E-09	1.07E-07	1.86E-08	1.86E-08	1.04E-08	1.62E-07	1.21E-09	1.62E-08	2.91E-09	2.91E-09	1.60E-09	2.49E-08	6.58E-10	8.79E-09	1.29E-09	1.29E-09	6.40E-10	1.27E-08
2756	258024.62	4086236.24	7.8351E-09	1.05E-07	1.83E-08	1.83E-08	1.02E-08	1.59E-07	1.19E-09	1.59E-08	2.85E-09	2.85E-09	1.57E-09	2.44E-08	6.46E-10	8.63E-09	1.27E-09	1.27E-09	6.29E-10	1.24E-08
2757	258048.9	4086235.16	7.6893E-09	1.03E-07	1.79E-08	1.79E-08	1.00E-08	1.56E-07	1.17E-09	1.56E-08	2.80E-09	2.80E-09	1.54E-09	2.40E-08	6.34E-10	8.47E-09	1.25E-09	1.25E-09	6.17E-10	1.22E-08
2758	258073.19	4086234.09	7.5436E-09	1.01E-07	1.76E-08	1.76E-08	9.81E-09	1.53E-07	1.14E-09	1.54E-08	2.75E-09	2.75E-09	1.51E-09	2.35E-08	6.22E-10	8.31E-09	1.22E-09	1.22E-09	6.05E-10	1.20E-08
2759	258097.47	4086233.01	7.3978E-09	9.88E-08	1.73E-08	1.73E-08	9.62E-09	1.50E-07	1.12E-09	1.51E-08	2.69E-09	2.69E-09	1.48E-09	2.30E-08	6.10E-10	8.15E-09	1.20E-09	1.20E-09	5.93E-10	1.17E-08
2760	258121.75	4086231.94	7.2721E-09	9.71E-08	1.70E-08	1.70E-08	9.46E-09	1.48E-07	1.10E-09	1.48E-08	2.65E-09	2.65E-09	1.46E-09	2.27E-08	5.99E-10	8.01E-09	1.18E-09	1.18E-09	5.83E-10	1.15E-08
2761	258146.03	4086230.86	7.1336E-09	9.53E-08	1.66E-08	1.66E-08	9.28E-09	1.45E-07	1.08E-09	1.45E-08	2.60E-09	2.60E-09	1.43E-09	2.22E-08	5.88E-10	7.85E-09	1.16E-09	1.16E-09	5.72E-10	1.13E-08
2762	258170.31	4086229.79	6.9878E-09	9.33E-08	1.63E-08	1.63E-08	9.09E-09	1.42E-07	1.06E-09	1.42E-08	2.55E-09	2.55E-09	1.40E-09	2.18E-08	5.76E-10	7.69E-09	1.13E-09	1.13E-09	5.61E-10	1.11E-08
2763	258194.6	4086228.71	6.842E-09	9.14E-08	1.60E-08	1.60E-08	8.90E-09	1.39E-07	1.04E-09	1.39E-08	2.49E-09	2.49E-09	1.37E-09	2.13E-08	5.64E-10	7.53E-09	1.11E-09	1.11E-09	5.49E-10	1.09E-08
2764	258218.88	4086227.64	6.6981E-09	8.95E-08	1.56E-08	1.56E-08	8.71E-09	1.36E-07	1.02E-09	1.36E-08	2.44E-09	2.44E-09	1.34E-09	2.09E-08	5.52E-10	7.37E-09	1.09E-09	1.09E-09	5.37E-10	1.06E-08
2765	258243.16	4086226.56	6.5523E-09	8.75E-08	1.53E-08	1.53E-08	8.52E-09	1.33E-07	9.94E-10	1.33E-08	2.39E-09	2.39E-09	1.31E-09	2.04E-08	5.40E-10	7.21E-09	1.06E-09	1.06E-09	5.26E-10	1.04E-08
2766	258267.44	4086225.49	6.4047E-09	8.56E-08	1.49E-08	1.49E-08	8.33E-09	1.30E-07	9.72E-10	1.30E-08	2.33E-09	2.33E-09	1.28E-09	2.00E-08	5.28E-10	7.05E-09	1.04E-09	1.04E-09	5.14E-10	1.02E-08
2767	258291.72	4086224.41	6.2553E-09	8.36E-08	1.46E-08	1.46E-08	8.14E-09	1.27E-07	9.49E-10	1.27E-08	2.28E-09	2.28E-09	1.25E-09	1.95E-08	5.16E-10	6.89E-09	1.01E-09	1.01E-09	5.02E-10	9.93E-09
2768	258316	4086223.33	6.1041E-09	8.15E-08	1.42E-08	1.42E-08	7.94E-09	1.24E-07	9.26E-10	1.24E-08	2.22E-09	2.22E-09	1.22E-09	1.90E-08	5.03E-10	6.72E-09	9.89E-10	9.89E-10	4.90E-10	9.69E-09
2769	258340.29	4086222.26	5.9529E-09	7.95E-08	1.39E-08	1.39E-08	7.74E-09	1.21E-07	9.03E-10	1.21E-08	2.17E-09	2.17E-09	1.19E-09	1.85E-08	4.91E-10	6.55E-09	9.65E-10	9.65E-10	4.78E-10	9.45E-09
2770	258364.57	4086221.18	5.8034E-09	7.75E-08	1.35E-08	1.35E-08	7.55E-09	1.18E-07	8.81E-10	1.18E-08	2.11E-09	2.11E-09	1.16E-09	1.81E-08	4.78E-10	6.39E-09	9.41E-10	9.41E-10	4.66E-10	9.22E-09
2771	258388.85	4086220.11	5.6558E-09	7.55E-08	1.32E-08	1.32E-08	7.36E-09	1.15E-07	8.58E-10	1.15E-08	2.06E-09	2.06E-09	1.13E-09	1.76E-08	4.66E-10	6.23E-09	9.17E-10	9.17E-10	4.54E-10	8.98E-09
2772	258413.13	4086219.03	5.5083E-09	7.36E-08	1.29E-08	1.29E-08	7.16E-09	1.12E-07	8.36E-10	1.12E-08	2.01E-09	2.01E-09	1.10E-09	1.72E-08	4.54E-10	6.06E-09	8.93E-10	8.93E-10	4.42E-10	8.75E-09
2773	257598.33	4086446.16	8.1193E-09	1.08E-07	1.89E-08	1.89E-08	1.06E-08	1.65E-07	1.23E-09	1.65E-08	2.96E-09	2.96E-09	1.63E-09	2.53E-08	6.69E-10	8.94E-09	1.32E-09	1.32E-09	6.51E-10	1.29E-08
2774	257575.98	4086438	8.3016E-09	1.11E-07	1.94E-08	1.94E-08	1.08E-08	1.69E-07	1.26E-09	1.69E-08	3.02E-09	3.02E-09	1.66E-09	2.59E-08	6.84E-10	9.14E-09	1.35E-09	1.35E-09	6.66E-10	1.32E-08
2775	257553.64	4086429.83	8.4801E-09	1.13E-07	1.98E-08	1.98E-08	1.10E-08	1.72E-07	1.29E-09	1.73E-08	3.09E-09	3.09E-09	1.70E-09	2.64E-08	6.99E-10	9.34E-09	1.37E-09	1.37E-09	6.80E-10	1.35E-08
2776	257531.29	4086421.67	8.6532E-09	1.16E-07	2.02E-08	2.02E-08	1.13E-08	1.76E-07	1.31E-09	1.76E-08	3.15E-09	3.15E-09	1.73E-09	2.70E-08	7.13E-10	9.53E-09	1.40E-09	1.40E-09	6.94E-10	1.37E-08
2777	257508.94	4086413.51	8.8209E-09	1.18E-07	2.06E-08	2.06E-08	1.15E-08	1.79E-07	1.34E-09	1.79E-08	3.21E-09	3.21E-09	1.77E-09	2.75E-08	7.27E-10	9.71E-09	1.43E-09	1.43E-09	7.08E-10	1.40E-08
2778	257486.59	4086405.34	8.983E-09	1.20E-07	2.10E-08	2.10E-08	1.17E-08	1.83E-07	1.36E-09	1.83E-08	3.27E-09	3.27E-09	1.80E-09	2.80E-08	7.40E-10	9.89E-09	1.46E-09	1.46E-09	7.21E-10	1.43E-08
2779	257464.24	4086397.18	9.1361E-09	1.22E-07	2.13E-08	2.13E-08	1.19E-08	1.86E-07	1.39E-09	1.86E-08	3.33E-09	3.33E-09	1.83E-09	2.85E-08	7.53E-10	1.01E-08	1.48E-09	1.48E-09	7.33E-10	1.45E-08
2780	257441.89	4086389.01	9.2819E-09	1.24E-07	2.17E-08	2.17E-08	1.21E-08	1.89E-07	1.41E-09	1.89E-08	3.38E-09	3.38E-09	1.86E-09	2.89E-08	7.65E-10	1.02E-08	1.50E-09	1.50E-09	7.45E-10	1.47E-08
2781	257419.54	4086380.85	9.4185E-09	1.26E-07	2.20E-08	2.20E-08	1.23E-08	1.91E-07	1.43E-09	1.92E-08	3.43E-09	3.43E-09	1.89E-09	2.93E-08	7.76E-10	1.04E-08	1.53E-09	1.53E-09	7.56E-10	1.50E-08
2782	257397.19	4086372.69	9.5461E-09	1.28E-07	2.23E-08	2.23E-08	1.24E-08	1.94E-07	1.45E-09	1.94E-08	3.48E-09	3.48E-09	1.91E-09	2.97E-08	7.87E-10	1.05E-08	1.55E-09	1.55E-09	7.66E-10	1.52E-08
2783	257374.85	4086364.52	9.6645E-09	1.29E-07	2.25E-08	2.25E-08	1.26E-08	1.96E-07	1.47E-09	1.97E-08	3.52E-09	3.52E-09	1.94E-09	3.01E-08	7.97E-10	1.06E-08	1.57E-09	1.57E-09	7.75E-10	1.53E-08
2784	257352.5	4086356.36	9.7756E-09	1.31E-07	2.28E-08	2.28E-08	1.27E-08	1.99E-07	1.48E-09	1.99E-08	3.56E-09	3.56E-09	1.96E-09	3.05E-08	8.06E-10	1.08E-08	1.58E-09	1.58E-09	7.84E-10	1.55E-08
2785	257330.15	4086348.19	9.8777E-09	1.32E-07	2.30E-08	2.30E-08	1.28E-08	2.01E-07	1.50E-09	2.01E-08	3.60E-09	3.60E-09	1.98E-09	3.08E-08	8.14E-10	1.09E-08	1.60E-09	1.60E-09	7.92E-10	1.57E-08
2786	257307.8	4086340.03	9.9761E-09	1.33E-07	2.33E-08	2.33E-08	1.30E-08	2.03E-07	1.51E-09	2.03E-08	3.63E-09	3.63E-09	2.00E-09	3.11E-08	8.22E-10	1.10E-08	1.62E-09	1.62E-09	8.00E-10	1.58E-08
2787	257285.45	4086331.87	1.0071E-08	1.35E-07	2.35E-08	2.35E-08	1.31E-08	2.05E-07	1.53E-09	2.05E-08	3.67E-09	3.67E-09	2.02E-09	3.14E-08	8.30E-10	1.11E-08	1.63E-09	1.63E-09	8.08E-10	1.60E-08
2788	257263.1	4086323.7	1.0164E-08	1.36E-07	2.37E-08	2.37E-08	1.32E-08	2.07E-07	1.54E-09	2.07E-08	3.70E-09	3.70E-09	2.04E-09	3.17E-08	8.38E-10	1.12E-08	1.65E-09	1.65E-09	8.15E-10	1.61E-08
2789	257240.75	4086315.54	1.0257E-08	1.37E-07	2.39E-08	2.39E-08	1.33E-08	2.08E-07	1.56E-09	2.09E-08	3.74E-09	3.74E-09	2.05E-09	3.20E-08	8.45E-10	1.13E-08	1.66E-09	1.66E-09	8.23E-10	1.63E-08
2790	257218.4	4086307.37	1.035E-08	1.38E-07	2.41E-08	2.41E-08	1.35E-08	2.10E-07	1.57E-09	2.11E-08	3.77E-09	3.77E-09	2.07E-09	3.22E-08	8.53E-10	1.14E-08	1.68E-09	1.68E-09	8.30E-10	1.64E-08
2791	257196.06	4086299.21	1.0443E-08	1.39E-07	2.44E-08	2.44E-08	1.36E-08	2.12E-07	1.58E-09	2.13E-08	3.80E-09	3.80E-09	2.09E-09	3.25E-08	8.61E-10	1.15E-08	1.69E-09	1.69E-09	8.38E-10	1.66E-08
2792	257173.71	4086291.04	1.0537E-08	1.41E-07	2.46E-08	2.46E-08	1.37E-08	2.14E-07	1.60E-09	2.14E-08	3.84E-09	3.84E-09	2.11E-09	3.28E-08	8.69E-10	1.16E-08	1.71E-09	1.71E-09	8.45E-10	1.67E-08
2793	257151.36	4086282.88	1.0656E-08	1.42E-07	2.49E-08	2.49E-08	1.39E-08	2.17E-07	1.62E-09	2.17E-08	3.88E-09	3.88E-09	2.13E-09	3.32E-08	8.78E-10	1.17E-08	1.73E-09	1.73E-09	8.55E-10	1.69E-08
2794	257129.01	4086274.72	1.076E-08	1.44E-07	2.51E-08	2.51E-08	1.40E-08	2.19E-07	1.63E-09	2.19E-08	3.92E-09	3.92E-09	2.15E-09	3.35E-08	8.87E-10	1.18E-08	1.74E-09	1.74E-09	8.63E-10	1.71E-08
2795	257106.66	4086266.55	1.0843E-08	1.45E-07	2.53E-08	2.53E-08	1.41E-08	2.20E-07	1.65E-09	2.21E-08	3.95E-09	3.95E-09	2.17E-09	3.38E-08	8.94E-10	1.19E-08	1.76E-09	1.76E-09	8.70E-10	1.72E-08
2796	257084.31	4086258.39	1.0916E-08	1.46E-07	2.55E-08	2.55E-08	1.42E-08	2.22E-07	1.66E-09	2.22E-08	3.98E-09	3.98E-09	2.19E-09	3.40E-08	9.00E-10	1.20E-08	1.77E-09	1.77E-09	8.76E-10	1.73E-08
2797	257061.96	4086250.22	1.0976E-08	1.47E-07	2.56E-08	2.56E-08	1.43E-08	2.23E-07	1.67E-09	2.23E-08	4.00E-09	4.00E-09	2.20E-09	3.42E-08	9.05E-10	1.21E-08	1.78E-09	1.78E-09	8.81E-10	1.74E-08
2798	257039.61	4086242.06	1.1022E-08	1.47E-07	2.57E-08	2.57E-08	1.43E-08	2.24E-07	1.67E-09	2.24E-08	4.02E-09	4.02E-09	2.21E-09	3.43E-08	9.09E-10	1.21E-08	1.79E-09	1.79E-09	8.84E-10	1.75E-08
2799	257017.27	4086233.9	1.1049E-08	1.48E-07	2.58E-08	2.58E-08	1.44E-08	2.25E-07	1.68E-09	2.25E-08	4.03E-09	4.03E-09	2.21E-09	3.44E-08	9.11E-10	1.22E-08	1.79E-09	1.79E-09	8.86E-10	1.75E-08
2800	256994.92	4086225.73	1.1062E-08	1.48E-07	2.58E-08	2.58E-08	1.44E-08	2.25E-07	1.68E-09	2.25E-08	4.03E-09	4.03E-09	2.22E-09	3.45E-08	9.12E-10	1.22E-08	1.79E-09	1.79E-09	8.87E-10	1.76E-08
2801	256972.57	4086217.57	1.104E-08	1.47E-07	2.58E-08	2.58E-08	1.44E-08	2.24E-07	1.68E-09	2.25E-08	4.02E-09	4.02E-09	2.21E-09	3.44E-08	9.10E-10	1.22E-08	1.79E-09	1.79E-09	8.86E-10	1.75E-08
2802	256950.22	4086209.4	1.1015E-08	1.47E-07	2.57E-08	2.57E-08	1.43E-08	2.24E-07	1.67E-09	2.24E-08	4.01E-09	4.01E-09	2.21E-09	3.43E-08	9.08E-10	1.21E-08	1.79E-09	1.79E-09	8.84E-10	1.75E-08
2803	256927.87	4086201.24	0.000000011	1.47E-07	2.57E-08	2.57E-08	1.43E-08	2.24E-07	1.67E-09	2.24E-08	4.01E-09	4.01E-09	2.20E-09	3.43E-08	9.07E-10	1.21E-08	1.78E-09	1.78E-09	8.82E-10	1.75E-08
2804	256905.52	4086193.08	1.0987E-08	1.47E-07	2.56E-08	2.56E-08	1.43E-08	2.23E-07	1.67E-09	2.24E-08	4.00E-09	4.00E-09	2.20E-09	3.42E-08	9.06E-10	1.21E-08	1.78E-09	1.78E-09	8.81E-10	1.74E-08
2805	256883.17	4086184.91	1.0976E-08	1.47E-07	2.56E-08	2.56E-08	1.43E-08	2.23E-07	1.67E-09	2.23E-08	4.00E-09	4.00E-09	2.20E-09	3.42E-08	9.05E-10	1.21E-08	1.78E-09	1.78E-09	8.81E-10	1.74E-08
2806	256860.83	4086176.75	1.0971E-08	1.47E-07	2.56E-08	2.56E-08	1.43E-08	2.23E-07	1.67E-09	2.23E-08	4.00E-09	4.00E-09	2.20E-09	3.42E-08	9.04E-10	1.21E-08	1.78E-09	1.78E-09	8.80E-10	1.74E-08
2807	256838.48	4086168.58	1.0971E-08	1.47E-07	2.56E-08	2.56E-08	1.43E-08	2.23E-07	1.67E-09	2.23E-08	4.00E-09	4.00E-09	2.20E-09	3.42E-08	9.04E-10	1.21E-08	1.78E-09	1.78E-09	8.80E-10	1.74E-08
2808	256816.13	4086160.42	1.0975E-08	1.47E-07	2.56E-08	2.56E-08	1.43E-08	2.23E-07	1.67E-09	2.23E-08	4.00E-09	4.00E-09	2.20E-09	3.42E-08	9.05E-10	1.21E-08	1.78E-09	1.78E-09	8.80E-10	1.74E-08
2809	256793.78	4086152.26	1.098E-08	1.47E-07	2.56E-08	2.56E-08	1.43E-08	2.23E-07	1.67E-09	2.23E-08	4.00E-09	4.00E-09	2.20E-09	3.42E-08	9.05E-10	1.21E-08	1.78E-09	1.78E-09	8.81E-10	1.74E-08
2810	256771.43	4086144.09	1.0987E-08	1.47E-07	2.56E-08	2.56E-08	1.43E-08	2.23E-07	1.67E-09	2.24E-08	4.00E-09	4.00E-09	2.20E-09	3.42E-08	9.06E-10	1.21E-08	1.78E-09	1.78E-09	8.81E-10	1.74E-08
2811	256749.08	4086135.93	1.0995E-08	1.47E-07	2.57E-08	2.57E-08	1.43E-08	2.23E-07	1.67E-09	2.24E-08	4.01E-09	4.01E-09	2.20E-09	3.43E-08	9.06E-10	1.21E-08	1.78E-09	1.78E-09	8.82E-10	1.75E-08
2812	256726.73	4086127.76	0.000000011	1.47E-07	2.57E-08	2.57E-08	1.43E-08	2.24E-07	1.67E-09	2.24E-08	4.01E-09	4.01E-09	2.20E-09	3.43E-08	9.07E-10	1.21E-08	1.78E-09	1.78E-09	8.82E-10	1.75E-08
2813	256704.38	4086119.6	1.1004E-08	1.47E-07	2.57E-08	2.57E-08	1.43E-08	2.24E-07	1.67E-09	2.24E-08	4.01E-09	4.01E-09	2.20E-09	3.43E-08	9.07E-10	1.21E-08	1.78E-09	1.78E-09	8.83E-10	1.75E-08
2814	256672.08	4086089.82	1.1184E-08	1.49E-07	2.61E-08	2.61E-08	1.45E-08	2.27E-07	1.70E-09	2.28E-08	4.07E-09	4.07E-09	2.24E-09	3.48E-08	9.22E-10	1.23E-08	1.81E-09	1.81E-09	8.97E-10	1.78E-08
2815	256662.13	4086068.21	1.1368E-08	1.52E-07	2.65E-08	2.65E-08	1.48E-08	2.31E-07	1.73E-09	2.31E-08	4.14E-09	4.14E-09	2.28E-09	3.54E-08	9.37E-10	1.25E-08	1.84E-09	1.84E-09	9.12E-10	1.81E-08
2816	256652.18	4086046.6	1.1556E-08	1.54E-07	2.70E-08	2.70E-08	1.50E-08	2.35E-07	1.75E-09	2.35E-08	4.21E-09	4.21E-09	2.31E-09	3.60E-08	9.53E-10	1.27E-08	1.87E-09	1.87E-09	9.27E-10	1.83E-08
2817	256642.23	4086024.99	1.1705E-08	1.56E-07	2.73E-08	2.73E-08	1.52E-08	2.38E-07	1.78E-09	2.38E-08	4.26E-09	4.26E-09	2.34E-09	3.65E-08	9.65E-10	1.29E-08	1.90E-09	1.90E-09	9.39E-10	1.86E-08
2818	256632.28	4086003.38	1.1835E-08	1.58E-07	2.76E-08	2.76E-08	1.54E-08	2.41E-07	1.80E-09	2.41E-08	4.31E-09	4.31E-09	2.37E-09	3.69E-08	9.76E-10	1.30E-08	1.92E-09	1.92E-09	9.49E-10	1.88E-08
2819	256622.32	4085981.76	1.194E-08	1.59E-07	2.79E-08	2.79E-08	1.55E-08	2.43E-07	1.81E-09	2.43E-08	4.35E-09	4.35E-09	2.39E-09	3.72E-08	9.84E-10	1.31E-08	1.94E-09	1.94E-09	9.58E-10	1.90E-08
2820	256612.37	4085960.15	1.2011E-08	1.60E-07	2.80E-08	2.80E-08	1.56E-08	2.44E-07	1.82E-09	2.44E-08	4.38E-09	4.38E-09	2.41E-09	3.74E-08	9.90E-10	1.32E-08	1.95E-09	1.95E-09	9.64E-10	1.91E-08
2821	256602.42	4085938.54	1.2048E-08	1.61E-07	2.81E-08	2.81E-08	1.57E-08	2.45E-07	1.83E-09	2.45E-08	4.39E-09	4.39E-09	2.41E-09	3.75E-08	9.93E-10	1.33E-08	1.95E-09	1.95E-09	9.67E-10	1.91E-08
2822	256592.47	4085916.93	1.2041E-08	1.61E-07	2.81E-08	2.81E-08	1.57E-08	2.45E-07	1.83E-09	2.45E-08	4.39E-09	4.39E-09	2.41E-09	3.75E-08	9.93E-10	1.33E-08	1.95E-09	1.95E-09	9.66E-10	1.91E-08
2823	256582.52	4085895.32	1.1988E-08	1.60E-07	2.80E-08	2.80E-08	1.56E-08	2.44E-07	1.82E-09	2.44E-08	4.37E-09	4.37E-09	2.40E-09	3.73E-08	9.88E-10	1.32E-08	1.94E-09	1.94E-09	9.62E-10	1.90E-08
2824	256572.56	4085873.7	1.1886E-08	1.59E-07	2.77E-08	2.77E-08	1.55E-08	2.42E-07	1.80E-09	2.42E-08	4.33E-09	4.33E-09	2.38E-09	3.70E-08	9.80E-10	1.31E-08	1.93E-09	1.93E-09	9.54E-10	1.89E-08
2825	256562.61	4085852.09	1.1736E-08	1.57E-07	2.74E-08	2.74E-08	1.53E-08	2.39E-07	1.78E-09	2.39E-08	4.28E-09	4.28E-09	2.35E-09	3.66E-08	9.67E-10	1.29E-08	1.90E-09	1.90E-09	9.42E-10	1.86E-08

2826	256552.66	4085830.48	1.1536E-08	1.54E-07	2.69E-08	2.69E-08	1.50E-08	2.34E-07	1.75E-09	2.35E-08	4.20E-09	4.20E-09	2.31E-09	3.59E-08	9.51E-10	1.27E-08	1.87E-09	1.87E-09	9.25E-10	1.83E-08
2827	256542.71	4085808.87	1.1288E-08	1.51E-07	2.63E-08	2.63E-08	1.47E-08	2.29E-07	1.71E-09	2.30E-08	4.11E-09	4.11E-09	2.26E-09	3.52E-08	9.30E-10	1.24E-08	1.83E-09	1.83E-09	9.06E-10	1.79E-08
2828	256532.76	4085787.26	1.0991E-08	1.47E-07	2.56E-08	2.56E-08	1.43E-08	2.23E-07	1.67E-09	2.24E-08	4.00E-09	4.00E-09	2.20E-09	3.42E-08	9.06E-10	1.21E-08	1.78E-09	1.78E-09	8.82E-10	1.75E-08
2829	256522.8	4085765.64	1.0648E-08	1.42E-07	2.48E-08	2.48E-08	1.39E-08	2.16E-07	1.62E-09	2.17E-08	3.88E-09	3.88E-09	2.13E-09	3.32E-08	8.78E-10	1.17E-08	1.73E-09	1.73E-09	8.54E-10	1.69E-08
2830	256512.85	4085744.03	1.0264E-08	1.37E-07	2.39E-08	2.39E-08	1.34E-08	2.09E-07	1.56E-09	2.09E-08	3.74E-09	3.74E-09	2.06E-09	3.20E-08	8.46E-10	1.13E-08	1.66E-09	1.66E-09	8.23E-10	1.63E-08
2831	256502.9	4085722.42	9.8431E-09	1.31E-07	2.30E-08	2.30E-08	1.28E-08	2.00E-07	1.49E-09	2.00E-08	3.59E-09	3.59E-09	1.97E-09	3.07E-08	8.11E-10	1.08E-08	1.60E-09	1.60E-09	7.90E-10	1.56E-08
2832	256492.95	4085700.81	9.4094E-09	1.26E-07	2.20E-08	2.20E-08	1.22E-08	1.91E-07	1.43E-09	1.91E-08	3.43E-09	3.43E-09	1.88E-09	2.93E-08	7.76E-10	1.04E-08	1.53E-09	1.53E-09	7.55E-10	1.49E-08
2833	256483	4085679.2	8.9357E-09	1.19E-07	2.08E-08	2.08E-08	1.16E-08	1.82E-07	1.36E-09	1.82E-08	3.26E-09	3.26E-09	1.79E-09	2.78E-08	7.37E-10	9.84E-09	1.45E-09	1.45E-09	7.17E-10	1.42E-08
2834	256473.04	4085657.58	8.451E-09	1.13E-07	1.97E-08	1.97E-08	1.10E-08	1.72E-07	1.28E-09	1.72E-08	3.08E-09	3.08E-09	1.69E-09	2.63E-08	6.97E-10	9.30E-09	1.37E-09	1.37E-09	6.78E-10	1.34E-08
2835	256463.09	4085635.97	7.9681E-09	1.06E-07	1.86E-08	1.86E-08	1.04E-08	1.62E-07	1.21E-09	1.62E-08	2.90E-09	2.90E-09	1.60E-09	2.48E-08	6.57E-10	8.77E-09	1.29E-09	1.29E-09	6.39E-10	1.27E-08
2836	256453.14	4085614.36	7.498E-09	1.00E-07	1.75E-08	1.75E-08	9.75E-09	1.52E-07	1.14E-09	1.53E-08	2.73E-09	2.73E-09	1.50E-09	2.34E-08	6.18E-10	8.26E-09	1.22E-09	1.22E-09	6.02E-10	1.19E-08
2837	256443.19	4085592.75	7.0534E-09	9.42E-08	1.65E-08	1.65E-08	9.17E-09	1.43E-07	1.07E-09	1.44E-08	2.57E-09	2.57E-09	1.41E-09	2.20E-08	5.81E-10	7.77E-09	1.14E-09	1.14E-09	5.66E-10	1.12E-08
2838	256433.24	4085571.14	6.6434E-09	8.87E-08	1.55E-08	1.55E-08	8.64E-09	1.35E-07	1.01E-09	1.35E-08	2.42E-09	2.42E-09	1.33E-09	2.07E-08	5.48E-10	7.31E-09	1.08E-09	1.08E-09	5.33E-10	1.05E-08
2839	256423.28	4085549.52	6.2735E-09	8.38E-08	1.46E-08	1.46E-08	8.16E-09	1.28E-07	9.52E-10	1.28E-08	2.29E-09	2.29E-09	1.26E-09	1.95E-08	5.17E-10	6.91E-09	1.02E-09	1.02E-09	5.03E-10	9.96E-09
2840	256413.33	4085527.91	5.951E-09	7.95E-08	1.39E-08	1.39E-08	7.74E-09	1.21E-07	9.03E-10	1.21E-08	2.17E-09	2.17E-09	1.19E-09	1.85E-08	4.91E-10	6.55E-09	9.65E-10	9.65E-10	4.77E-10	9.45E-09
2841	256403.38	4085506.3	5.6722E-09	7.58E-08	1.32E-08	1.32E-08	7.38E-09	1.15E-07	8.61E-10	1.15E-08	2.07E-09	2.07E-09	1.14E-09	1.77E-08	4.68E-10	6.25E-09	9.19E-10	9.19E-10	4.55E-10	9.01E-09
2842	256393.43	4085484.69	5.439E-09	7.27E-08	1.27E-08	1.27E-08	7.07E-09	1.11E-07	8.25E-10	1.11E-08	1.98E-09	1.98E-09	1.09E-09	1.69E-08	4.48E-10	5.99E-09	8.81E-10	8.81E-10	4.36E-10	8.64E-09
2843	256383.48	4085463.08	5.2422E-09	7.00E-08	1.22E-08	1.22E-08	6.82E-09	1.07E-07	7.96E-10	1.07E-08	1.91E-09	1.91E-09	1.05E-09	1.63E-08	4.32E-10	5.77E-09	8.50E-10	8.50E-10	4.21E-10	8.32E-09
2844	256373.52	4085441.47	5.0764E-09	6.78E-08	1.18E-08	1.18E-08	6.60E-09	1.03E-07	7.70E-10	1.03E-08	1.85E-09	1.85E-09	1.02E-09	1.58E-08	4.18E-10	5.59E-09	8.23E-10	8.23E-10	4.07E-10	8.06E-09
2845	256363.57	4085419.85	4.9361E-09	6.59E-08	1.15E-08	1.15E-08	6.42E-09	1.00E-07	7.49E-10	1.00E-08	1.80E-09	1.80E-09	9.89E-10	1.54E-08	4.07E-10	5.43E-09	8.00E-10	8.00E-10	3.96E-10	7.84E-09
2846	256353.62	4085398.24	4.8122E-09	6.43E-08	1.12E-08	1.12E-08	6.26E-09	9.78E-08	7.30E-10	9.79E-09	1.75E-09	1.75E-09	9.64E-10	1.50E-08	3.97E-10	5.30E-09	7.80E-10	7.80E-10	3.86E-10	7.64E-09
2847	256343.67	4085376.63	4.6992E-09	6.28E-08	1.10E-08	1.10E-08	6.11E-09	9.55E-08	7.13E-10	9.56E-09	1.71E-09	1.71E-09	9.41E-10	1.46E-08	3.87E-10	5.17E-09	7.62E-10	7.62E-10	3.77E-10	7.46E-09
2848	256333.72	4085355.02	4.5936E-09	6.14E-08	1.07E-08	1.07E-08	5.97E-09	9.34E-08	6.97E-10	9.35E-09	1.67E-09	1.67E-09	9.20E-10	1.43E-08	3.79E-10	5.06E-09	7.44E-10	7.44E-10	3.69E-10	7.29E-09
2849	256323.76	4085333.41	4.4915E-09	6.00E-08	1.05E-08	1.05E-08	5.84E-09	9.13E-08	6.82E-10	9.14E-09	1.64E-09	1.64E-09	9.00E-10	1.40E-08	3.70E-10	4.95E-09	7.28E-10	7.28E-10	3.60E-10	7.13E-09
2850	256313.81	4085311.79	4.3931E-09	5.87E-08	1.02E-08	1.02E-08	5.71E-09	8.93E-08	6.67E-10	8.94E-09	1.60E-09	1.60E-09	8.80E-10	1.37E-08	3.62E-10	4.84E-09	7.12E-10	7.12E-10	3.52E-10	6.98E-09
2851	256303.86	4085290.18	4.2984E-09	5.74E-08	1.00E-08	1.00E-08	5.59E-09	8.74E-08	6.52E-10	8.75E-09	1.57E-09	1.57E-09	8.61E-10	1.34E-08	3.54E-10	4.73E-09	6.97E-10	6.97E-10	3.45E-10	6.83E-09
2852	256293.91	4085268.57	4.2091E-09	5.62E-08	9.82E-09	9.82E-09	5.47E-09	8.55E-08	6.39E-10	8.57E-09	1.53E-09	1.53E-09	8.43E-10	1.31E-08	3.47E-10	4.63E-09	6.82E-10	6.82E-10	3.38E-10	6.68E-09
2853	256283.96	4085246.96	4.1271E-09	5.51E-08	9.63E-09	9.63E-09	5.37E-09	8.39E-08	6.26E-10	8.40E-09	1.50E-09	1.50E-09	8.27E-10	1.29E-08	3.40E-10	4.54E-09	6.69E-10	6.69E-10	3.31E-10	6.55E-09
2854	256274	4085225.35	4.0542E-09	5.42E-08	9.46E-09	9.46E-09	5.27E-09	8.24E-08	6.15E-10	8.25E-09	1.48E-09	1.48E-09	8.12E-10	1.26E-08	3.34E-10	4.46E-09	6.57E-10	6.57E-10	3.25E-10	6.44E-09
2855	257620.68	4086454.33	7.9371E-09	1.06E-07	1.85E-08	1.85E-08	1.03E-08	1.61E-07	1.20E-09	1.62E-08	2.89E-09	2.89E-09	1.59E-09	2.47E-08	6.54E-10	8.74E-09	1.29E-09	1.29E-09	6.37E-10	1.26E-08
2856	257644.96	4086453.25	7.8369E-09	1.05E-07	1.83E-08	1.83E-08	1.02E-08	1.59E-07	1.19E-09	1.59E-08	2.85E-09	2.85E-09	1.57E-09	2.44E-08	6.46E-10	8.63E-09	1.27E-09	1.27E-09	6.29E-10	1.24E-08
2857	257669.24	4086452.18	7.7367E-09	1.03E-07	1.81E-08	1.81E-08	1.01E-08	1.57E-07	1.17E-09	1.57E-08	2.82E-09	2.82E-09	1.55E-09	2.41E-08	6.38E-10	8.52E-09	1.25E-09	1.25E-09	6.21E-10	1.23E-08
2858	257693.53	4086451.1	7.6328E-09	1.02E-07	1.78E-08	1.78E-08	9.93E-09	1.55E-07	1.16E-09	1.55E-08	2.78E-09	2.78E-09	1.53E-09	2.38E-08	6.29E-10	8.40E-09	1.24E-09	1.24E-09	6.12E-10	1.21E-08
2859	257717.81	4086450.02	7.529E-09	1.01E-07	1.76E-08	1.76E-08	9.79E-09	1.53E-07	1.14E-09	1.53E-08	2.74E-09	2.74E-09	1.51E-09	2.35E-08	6.21E-10	8.29E-09	1.22E-09	1.22E-09	6.04E-10	1.20E-08
2860	257742.09	4086448.95	7.4251E-09	9.92E-08	1.73E-08	1.73E-08	9.66E-09	1.51E-07	1.13E-09	1.51E-08	2.70E-09	2.70E-09	1.49E-09	2.31E-08	6.12E-10	8.18E-09	1.20E-09	1.20E-09	5.96E-10	1.18E-08
2861	257766.37	4086447.87	7.3358E-09	9.80E-08	1.71E-08	1.71E-08	9.54E-09	1.49E-07	1.11E-09	1.49E-08	2.67E-09	2.67E-09	1.47E-09	2.29E-08	6.05E-10	8.08E-09	1.19E-09	1.19E-09	5.89E-10	1.16E-08
2862	257790.65	4086446.8	7.2484E-09	9.68E-08	1.69E-08	1.69E-08	9.43E-09	1.47E-07	1.10E-09	1.47E-08	2.64E-09	2.64E-09	1.45E-09	2.26E-08	5.97E-10	7.98E-09	1.17E-09	1.17E-09	5.82E-10	1.15E-08
2863	257814.94	4086445.72	7.1609E-09	9.57E-08	1.67E-08	1.67E-08	9.31E-09	1.46E-07	1.09E-09	1.46E-08	2.61E-09	2.61E-09	1.43E-09	2.23E-08	5.90E-10	7.88E-09	1.16E-09	1.16E-09	5.74E-10	1.14E-08
2864	257839.22	4086444.65	7.0716E-09	9.45E-08	1.65E-08	1.65E-08	9.20E-09	1.44E-07	1.07E-09	1.44E-08	2.58E-09	2.58E-09	1.42E-09	2.20E-08	5.83E-10	7.79E-09	1.15E-09	1.15E-09	5.67E-10	1.12E-08
2865	257863.5	4086443.57	6.9805E-09	9.32E-08	1.63E-08	1.63E-08	9.08E-09	1.42E-07	1.06E-09	1.42E-08	2.54E-09	2.54E-09	1.40E-09	2.17E-08	5.75E-10	7.69E-09	1.13E-09	1.13E-09	5.60E-10	1.11E-08
2866	257887.78	4086442.5	6.884E-09	9.20E-08	1.61E-08	1.61E-08	8.95E-09	1.40E-07	1.04E-09	1.40E-08	2.51E-09	2.51E-09	1.38E-09	2.14E-08	5.67E-10	7.58E-09	1.12E-09	1.12E-09	5.52E-10	1.09E-08
2867	257912.06	4086441.42	6.7837E-09	9.06E-08	1.58E-08	1.58E-08	8.82E-09	1.38E-07	1.03E-09	1.38E-08	2.47E-09	2.47E-09	1.36E-09	2.11E-08	5.59E-10	7.47E-09	1.10E-09	1.10E-09	5.44E-10	1.08E-08
2868	257936.34	4086440.35	6.6744E-09	8.92E-08	1.56E-08	1.56E-08	8.68E-09	1.36E-07	1.01E-09	1.36E-08	2.43E-09	2.43E-09	1.34E-09	2.08E-08	5.50E-10	7.35E-09	1.08E-09	1.08E-09	5.35E-10	1.06E-08
2869	257960.63	4086439.27	6.5614E-09	8.76E-08	1.53E-08	1.53E-08	8.53E-09	1.33E-07	9.96E-10	1.34E-08	2.39E-09	2.39E-09	1.31E-09	2.04E-08	5.41E-10	7.22E-09	1.06E-09	1.06E-09	5.26E-10	1.04E-08
2870	257984.91	4086438.19	6.4412E-09	8.60E-08	1.50E-08	1.50E-08	8.38E-09	1.31E-07	9.78E-10	1.31E-08	2.35E-09	2.35E-09	1.29E-09	2.01E-08	5.31E-10	7.09E-09	1.04E-09	1.04E-09	5.17E-10	1.02E-08
2871	258009.19	4086437.12	6.3155E-09	8.44E-08	1.47E-08	1.47E-08	8.21E-09	1.28E-07	9.58E-10	1.29E-08	2.30E-09	2.30E-09	1.26E-09	1.97E-08	5.21E-10	6.95E-09	1.02E-09	1.02E-09	5.07E-10	1.00E-08
2872	258033.47	4086436.04	6.1879E-09	8.27E-08	1.44E-08	1.44E-08	8.05E-09	1.26E-07	9.39E-10	1.26E-08	2.25E-09	2.25E-09	1.24E-09	1.93E-08	5.10E-10	6.81E-09	1.00E-09	1.00E-09	4.96E-10	9.83E-09
2873	258057.75	4086434.97	6.0604E-09	8.10E-08	1.41E-08	1.41E-08	7.88E-09	1.23E-07	9.20E-10	1.23E-08	2.21E-09	2.21E-09	1.21E-09	1.89E-08	5.00E-10	6.67E-09	9.82E-10	9.82E-10	4.86E-10	9.62E-09
2874	258082.04	4086433.89	5.9328E-09	7.92E-08	1.38E-08	1.38E-08	7.72E-09	1.21E-07	9.00E-10	1.21E-08	2.16E-09	2.16E-09	1.19E-09	1.85E-08	4.89E-10	6.53E-09	9.62E-10	9.62E-10	4.76E-10	9.42E-09
2875	258106.32	4086432.82	5.8089E-09	7.76E-08	1.36E-08	1.36E-08	7.56E-09	1.18E-07	8.82E-10	1.18E-08	2.12E-09	2.12E-09	1.16E-09	1.81E-08	4.79E-10	6.40E-09	9.41E-10	9.41E-10	4.66E-10	9.22E-09
2876	258130.6	4086431.74	5.6923E-09	7.60E-08	1.33E-08	1.33E-08	7.40E-09	1.16E-07	8.64E-10	1.16E-08	2.07E-09	2.07E-09	1.14E-09	1.77E-08	4.69E-10	6.27E-09	9.23E-10	9.23E-10	4.57E-10	9.04E-09
2877	258154.88	4086430.67	5.583E-09	7.46E-08	1.30E-08	1.30E-08	7.26E-09	1.13E-07	8.47E-10	1.14E-08	2.03E-09	2.03E-09	1.12E-09	1.74E-08	4.60E-10	6.15E-09	9.05E-10	9.05E-10	4.48E-10	8.86E-09
2878	258179.16	4086429.59	5.4809E-09	7.32E-08	1.28E-08	1.28E-08	7.13E-09	1.11E-07	8.32E-10	1.12E-08	2.00E-09	2.00E-09	1.10E-09	1.71E-08	4.52E-10	6.03E-09	8.88E-10	8.88E-10	4.40E-10	8.70E-09
2879	258203.44	4086428.52	5.3844E-09	7.19E-08	1.26E-08	1.26E-08	7.00E-09	1.09E-07	8.17E-10	1.10E-08	1.96E-09	1.96E-09	1.08E-09	1.68E-08	4.44E-10	5.93E-09	8.73E-10	8.73E-10	4.32E-10	8.55E-09
2880	258227.73	4086427.44	5.2932E-09	7.07E-08	1.23E-08	1.23E-08	6.88E-09	1.08E-07	8.03E-10	1.08E-08	1.93E-09	1.93E-09	1.06E-09	1.65E-08	4.36E-10	5.83E-09	8.58E-10	8.58E-10	4.25E-10	8.40E-09
2881	258252.01	4086426.36	5.2058E-09	6.95E-08	1.21E-08	1.21E-08	6.77E-09	1.06E-07	7.90E-10	1.06E-08	1.90E-09	1.90E-09	1.04E-09	1.62E-08	4.29E-10	5.73E-09	8.44E-10	8.44E-10	4.18E-10	8.27E-09
2882	258276.29	4086425.29	5.1165E-09	6.83E-08	1.19E-08	1.19E-08	6.66E-09	1.04E-07	7.77E-10	1.04E-08	1.86E-09	1.86E-09	1.02E-09	1.59E-08	4.22E-10	5.63E-09	8.29E-10	8.29E-10	4.10E-10	8.12E-09
2883	258300.57	4086424.21	5.0254E-09	6.71E-08	1.17E-08	1.17E-08	6.54E-09	1.02E-07	7.63E-10	1.02E-08	1.83E-09	1.83E-09	1.01E-09	1.57E-08	4.14E-10	5.53E-09	8.14E-10	8.14E-10	4.03E-10	7.98E-09
2884	258324.85	4086423.14	4.9325E-09	6.59E-08	1.15E-08	1.15E-08	6.42E-09	1.00E-07	7.49E-10	1.00E-08	1.80E-09	1.80E-09	9.88E-10	1.54E-08	4.07E-10	5.43E-09	7.99E-10	7.99E-10	3.96E-10	7.83E-09
2885	258349.14	4086422.06	4.8377E-09	6.46E-08	1.13E-08	1.13E-08	6.29E-09	9.83E-08	7.34E-10	9.84E-09	1.76E-09	1.76E-09	9.69E-10	1.51E-08	3.99E-10	5.33E-09	7.84E-10	7.84E-10	3.88E-10	7.68E-09
2886	258373.42	4086420.99	4.7411E-09	6.33E-08	1.11E-08	1.11E-08	6.17E-09	9.64E-08	7.20E-10	9.65E-09	1.73E-09	1.73E-09	9.49E-10	1.48E-08	3.91E-10	5.22E-09	7.68E-10	7.68E-10	3.80E-10	7.53E-09
2887	258397.7	4086419.91	4.6446E-09	6.20E-08	1.08E-08	1.08E-08	6.04E-09	9.44E-08	7.05E-10	9.45E-09	1.69E-09	1.69E-09	9.30E-10	1.45E-08	3.83E-10	5.11E-09	7.53E-10	7.53E-10	3.73E-10	7.37E-09
2888	258421.98	4086418.84	4.548E-09	6.08E-08	1.06E-08	1.06E-08	5.92E-09	9.24E-08	6.90E-10	9.25E-09	1.66E-09	1.66E-09	9.11E-10	1.42E-08	3.75E-10	5.01E-09	7.37E-10	7.37E-10	3.65E-10	7.22E-09
2889	257606.97	4086645.89	6.4612E-09	8.63E-08	1.51E-08	1.51E-08	8.40E-09	1.31E-07	9.81E-10	1.31E-08	2.35E-09	2.35E-09	1.29E-09	2.01E-08	5.33E-10	7.11E-09	1.05E-09	1.05E-09	5.18E-10	1.03E-08
2890	257584.4	4086637.65	6.5833E-09	8.79E-08	1.54E-08	1.54E-08	8.56E-09	1.34E-07	9.99E-10	1.34E-08	2.40E-09	2.40E-09	1.32E-09	2.05E-08	5.43E-10	7.25E-09	1.07E-09	1.07E-09	5.28E-10	1.05E-08
2891	257561.84	4086629.4	6.7127E-09	8.97E-08	1.57E-08	1.57E-08	8.73E-09	1.36E-07	1.02E-09	1.37E-08	2.45E-09	2.45E-09	1.34E-09	2.09E-08	5.53E-10	7.39E-09	1.09E-09	1.09E-09	5.39E-10	1.07E-08
2892	257539.28	4086621.16	6.8439E-09	9.14E-08	1.60E-08	1.60E-08	8.90E-09	1.39E-07	1.04E-09	1.39E-08	2.49E-09	2.49E-09	1.37E-09	2.13E-08	5.64E-10	7.54E-09	1.11E-09	1.11E-09	5.49E-10	1.09E-08
2893	257516.71	4086612.92	6.9805E-09	9.32E-08	1.63E-08	1.63E-08	9.08E-09	1.42E-07	1.06E-09	1.42E-08	2.54E-09	2.54E-09	1.40E-09	2.17E-08	5.75E-10	7.69E-09	1.13E-09	1.13E-09	5.60E-10	1.11E-08
2894	257494.15	4086604.68	7.119E-09	9.51E-08	1.66E-08	1.66E-08	9.26E-09	1.45E-07	1.08E-09	1.45E-08	2.59E-09	2.59E-09	1.43E-09	2.22E-08	5.87E-10	7.84E-09	1.15E-09	1.15E-09	5.71E-10	1.13E-08
2895	257471.59	4086596.43	7.2575E-09	9.69E-08	1.69E-08	1.69E-08	9.44E-09	1.48E-07	1.10E-09	1.48E-08	2.64E-09	2.64E-09	1.45E-09	2.26E-08	5.98E-10	7.99E-09	1.18E-09	1.18E-09	5.82E-10	1.15E-08
2896	257449.02	4086588.19	7.3941E-09	9.88E-08	1.73E-08	1.73E-08	9.62E-09	1.50E-07	1.12E-09	1.50E-08	2.69E-09	2.69E-09	1.48E-09	2.30E-08	6.09E-10	8.14E-09	1.20E-09	1.20E-09	5.93E-10	1.17E-08
2897	257426.46	4086579.95	7.5253E-09	1.01E-07	1.76E-08	1.76E-08	9.79E-09	1.53E-07	1.14E-09	1.53E-08	2.74E-09	2.74E-09	1.51E-09	2.34E-08	6.20E-10	8.29E-09	1.22E-09	1.22E-09	6.04E-10	1.19E-08
2898	257403.89	4086571.7	7.6511E-09	1.02E-07	1.79E-08	1.79E-08	9.95E-09	1.56E-07	1.16E-09	1.56E-08	2.79E-09	2.79E-09	1.53E-09	2.38E-08	6.31E-10	8.42E-09	1.24E-09	1.24E-09	6.14E-10	1.21E-08
2899	257381.33	4086563.46	7.7695E-09	1.04E-07	1.81E-08	1.81E-08	1.01E-08	1.58E-07	1.18E-09	1.58E-08	2.83E-09	2.83E-09	1.56E-09	2.42E-08	6.40E-10	8.55E-09	1.26E-09	1.26E-09	6.23E-10	1.23E-08
2900	257358.77	4086555.22	7.877E-09	1.05E-07	1.84E-08	1.84E-08	1.02E-08	1.60E-07	1.20E-09	1.60E-08	2.87E-09	2.87E-09	1.58E-09	2.45E-08	6.49E-10	8.67E-09	1.28E-09	1.28E-09	6.32E-10	1.25E-08
2901	257336.2	4086546.98	7.9772E-09	1.07E-07	1.86E-08	1.86E-08	1.04E-08	1.62E-07	1.21E-09	1.62E-08	2.91E-09	2.91E-09	1.60E-09	2.49E-08	6.58E-10	8.78E-09	1.29E-09	1.29E-09	6.40E-10	1.27E-08
2902	257313.64	4086538.73	8.0683E-09	1.08E-07	1.88E-08	1.88E-08	1.05E-08	1.64E-07	1.22E-09	1.64E-08	2.94E-09	2.94E-09	1.62E-09	2.51E-08	6.65E-10	8.88E-09	1.31E-09	1.31E-09	6.47E-10	1.28E-08
2903	257291.08	4086530.49	8.154E-09	1.09E-07	1.90E-08	1.90E-08	1.06E-08	1.66E-07	1.24E-09	1.66E-08	2.97E-09	2.97E-09	1.63E-09	2.54E-08	6.72E-10	8.98E-09	1.32E-09	1.32E-09	6.54E-10	1.29E-08
2904	257268.51	4086522.25	8.236E-09	1.10E-07	1.92E-08	1.92E-08	1.07E-08	1.67E-07	1.25E-09	1.68E-08	3.00E-09	3.00E-09	1.65E-09	2.57E-08	6.79E-10	9.07E-09	1.33E-09	1.33E-09	6.61E-10	1.31E-08
2905	257245.95	4086514.01	8.3216E-09	1.11E-07	1.94E-08	1.94E-08	1.08E-08	1.69E-07	1.26E-09	1.69E-08	3.03E-09	3.03E-09	1.67E-09	2.59E-08	6.86E-10	9.16E-09	1.35E-09	1.35E-09	6.68E-10	1.32E-08
2906	257223.39	4086505.76	8.4145E-09	1.12E-07	1.96E-08	1.96E-08	1.09E-08	1.71E-07	1.28E-09	1.71E-08	3.07E-09	3.07E-09	1.69E-09	2.62E-08	6.94E-10	9.27E-09	1.36E-09	1.36E-09	6.75E-10	1.34E-08
2907	257200.82	4086497.52	8.4983E-09	1.14E-07	1.98E-08	1.98E-08	1.11E-08	1.73E-07	1.29E-09	1.73E-08	3.10E-09	3.10E-09	1.70E-09	2.65E-08	7.01E-10	9.36E-09	1.38E-09	1.38E-09	6.82E-10	1.35E-08
2908	257178.26	4086489.28	8.5785E-09	1.15E-07	2.00E-08	2.00E-08	1.12E-08	1.74E-07	1.30E-09	1.75E-08	3.12E-09	3.12E-09	1.72E-09	2.67E-08	7.07E-10	9.45E-09	1.39E-09	1.39E-09	6.88E-10	1.36E-08
2909	257155.7	4086481.04	8.6605E-09	1.16E-07	2.02E-08	2.02E-08	1.13E-08	1.76E-07	1.31E-09	1.76E-08	3.15E-09	3.15E-09	1.73E-09	2.70E-08	7.14E-10	9.54E-09	1.40E-09	1.40E-09	6.95E-10	1.38E-08
2910	257133.13	4086472.79	8.7407E-09	1.17E-07	2.04E-08	2.04E-08	1.14E-08	1.78E-07	1.33E-09	1.78E-08	3.18E-09	3.18E-09	1.75E-09	2.72E-08	7.20E-10	9.62E-09	1.42E-09	1.42E-09	7.01E-10	1.39E-08
2911	257110.57	4086464.55	8.8209E-09	1.18E-07	2.06E-08	2.06E-08	1.15E-08	1.79E-07	1.34E-09	1.79E-08	3.21E-09	3.21E-09	1.77E-09	2.75E-08	7.27E-10	9.71E-09	1.43E-09	1.43E-09	7.08E-10	1.40E-08
2912	257088	4086456.31	8.8992E-09	1.19E-07	2.08E-08	2.08E-08	1.16E-08	1.81E-07	1.35E-09	1.81E-08	3.24E-09	3.24E-09	1.78E-09	2.77E-08	7.34E-10	9.80E-09	1.44E-09	1.44E-09	7.14E-10	1.41E-08
2913	257065.44	4086448.07	8.9721E-09	1.20E-07	2.09E-08	2.09E-08	1.17E-08	1.82E-07	1.36E-09	1.83E-08	3.27E-09	3.27E-09	1.80E-09	2.80E-08	7.40E-10	9.88E-09	1.45E-09	1.45E-09	7.20E-10	1.42E-08
2914	257042.88	4086439.82	9.0395E-09	1.21E-07	2.11E-08	2.11E-08	1.18E-08	1.84E-07	1.37E-09	1.84E-08	3.29E-09	3.29E-09	1.81E-09	2.82E-08	7.45E-10	9.95E-09	1.47E-09	1.47E-09	7.25E-10	1.44E-08
2915	257020.31	4086431.58	9.0996E-09	1.22E-07	2.12E-08	2.12E-08	1.18E-08	1.85E-07	1.38E-09	1.85E-08	3.31E-09	3.31E-09	1.82E-09	2.84E-08	7.50E-10	1.00E-08	1.47E-09	1.47E-09	7.30E-10	1.44E-08
2916	256997.75	4086423.34	9.1488E-09	1.22E-07	2.13E-08	2.13E-08	1.19E-08	1.86E-07	1.39E-09	1.86E-08	3.33E-09	3.33E-09	1.83E-09	2.85E-08	7.54E-10	1.01E-08	1.48E-09	1.48E-09	7.34E-10	1.45E-08
2917	256975.19	4086415.1	9.1853E-09	1.23E-07	2.14E-08	2.14E-08	1.19E-08	1.87E-07	1.39E-09	1.87E-08	3.35E-09	3.35E-09	1.84E-09	2.86E-08	7.57E-10	1.01E-08	1.49E-09	1.49E-09	7.37E-10	1.46E-08
2918	256952.62	4086406.85	9.2108E-09	1.23E-07	2.15E-08	2.15E-08	1.20E-08	1.87E-07	1.40E-09	1.87E-08	3.36E-09	3.36E-09	1.84E-09	2.87E-08	7.59E-10	1.01E-08	1.49E-09	1.49E-09	7.39E-10	1.46E-08
2919	256930.06	4086398.61	9.2235E-09	1.23E-07	2.15E-08	2.15E-08	1.20E-08	1.87E-07	1.40E-09	1.88E-08	3.36E-09	3.36E-09	1.85E-09	2.87E-08	7.60E-10	1.02E-08	1.49E-09	1.49E-09	7.40E-10	1.46E-08
2920	256907.5	4086390.37	9.2235E-09	1.23E-07	2.15E-08	2.15E-08	1.20E-08	1.87E-07	1.40E-09	1.88E-08	3.36E-09	3.36E-09	1.85E-09	2.87E-08	7.60E-10	1.02E-08	1.49E-09	1.49E-09	7.40E-10	1.46E-08
2921	256884.93	4086382.13	9.2181E-09	1.23E-07	2.15E-08	2.15E-08	1.20E-08	1.87E-07	1.40E-09	1.88E-08	3.36E-09	3.36E-09	1.85E-09	2.87E-08	7.60E-10	1.01E-08	1.49E-09	1.49E-09	7.40E-10	1.46E-08
2922	256862.37	4086373.88	9.2053E-09	1.23E-07	2.15E-08	2.15E-08	1.20E-08	1.87E-07	1.40E-09	1.87E-08	3.35E-09	3.35E-09	1.84E-09	2.87E-08	7.59E-10	1.01E-08	1.49E-09	1.49E-09	7.38E-10	1.46E-08
2923	256839.8	4086365.64	9.1926E-09	1.23E-07	2.14E-08	2.14E-08	1.20E-08	1.87E-07	1.40E-09	1.87E-08	3.35E-09	3.35E-09	1.84E-09	2.86E-08	7.58E-10	1.01E-08	1.49E-09	1.49E-09	7.37E-10	1.46E-08
2924	256817.24	4086357.4	9.1798E-09	1.23E-07	2.14E-08	2.14E-08	1.19E-08	1.87E-07	1.39E-09	1.87E-08	3.34E-09	3.34E-09	1.84E-09	2.86E-08	7.57E-10	1.01E-08	1.49E-09	1.49E-09	7.36E-10	1.46E-08
2925	256794.68	4086349.15	9.1725E-09	1.23E-07	2.14E-08	2.14E-08	1.19E-08	1.86E-07	1.39E-09	1.87E-08	3.34E-09	3.34E-09	1.84E-09	2.86E-08	7.56E-10	1.01E-08	1.49E-09	1.49E-09	7.36E-10	1.46E-08
2926	256772.11	4086340.91	9.1707E-09	1.23E-07	2.14E-08	2.14E-08	1.19E-08	1.86E-07	1.39E-09	1.87E-08	3.34E-09	3.34E-09	1.84E-09	2.86E-08	7.56E-10	1.01E-08	1.49E-09	1.49E-09	7.36E-10	1.46E-08
2927	256749.55	4086332.67	9.1762E-09	1.23E-07	2.14E-08	2.14E-08	1.19E-08	1.86E-07	1.39E-09	1.87E-08	3.34E-09	3.34E-09	1.84E-09	2.86E-08	7.56E-10	1.01E-08	1.49E-09	1.49E-09	7.36E-10	1.46E-08
2928	256726.99	4086324.43	9.1853E-09	1.23E-07	2.14E-08	2.14E-08	1.19E-08	1.87E-07	1.39E-09	1.87E-08	3.35E-09	3.35E-09	1.84E-09	2.86E-08	7.57E-10	1.01E-08	1.49E-09	1.49E-09	7.37E-10	1.46E-08
2929	256704.42	4086316.18	9.1999E-09	1.23E-07	2.15E-08	2.15E-08	1.20E-08	1.87E-07	1.40E-09	1.87E-08	3.35E-09	3.35E-09	1.84E-09	2.87E-08	7.58E-10	1.01E-08	1.49E-09	1.49E-09	7.38E-10	1.46E-08
2930	256681.86	4086307.94	9.2181E-09	1.23E-07	2.15E-08	2.15E-08	1.20E-08	1.87E-07	1.40E-09	1.88E-08	3.36E-09	3.36E-09	1.85E-09	2.87E-08	7.60E-10	1.01E-08	1.49E-09	1.49E-09	7.40E-10	1.46E-08
2931	256659.3	4086299.7	9.2381E-09	1.23E-07	2.16E-08	2.16E-08	1.20E-08	1.88E-07	1.40E-09	1.88E-08	3.37E-09	3.37E-09	1.85E-09	2.88E-08	7.61E-10	1.02E-08	1.50E-09	1.50E-09	7.41E-10	1.47E-08
2932	256636.73	4086291.46	9.2582E-09	1.24E-07	2.16E-08	2.16E-08	1.20E-08	1.88E-07	1.41E-09	1.88E-08	3.37E-09	3.37E-09	1.85E-09	2.88E-08	7.63E-10	1.02E-08	1.50E-09	1.50E-09	7.43E-10	1.47E-08
2933	256614.17	4086283.21	9.291E-09	1.24E-07	2.17E-08	2.17E-08	1.21E-08	1.89E-07	1.41E-09	1.89E-08	3.38E-09	3.38E-09	1.86E-09	2.89E-08	7.66E-10	1.02E-08	1.51E-09	1.51E-09	7.45E-10	1.48E-08
2934	256591.61	4086274.97	9.3256E-09	1.25E-07	2.18E-08	2.18E-08	1.21E-08	1.90E-07	1.42E-09	1.90E-08	3.40E-09	3.40E-09	1.87E-09	2.91E-08	7.69E-10	1.03E-08	1.51E-09	1.51E-09	7.48E-10	1.48E-08
2935	256569.04	4086266.73	9.3438E-09	1.25E-07	2.18E-08	2.18E-08	1.22E-08	1.90E-07	1.42E-09	1.90E-08	3.40E-09	3.40E-09	1.87E-09	2.91E-08	7.70E-10	1.03E-08	1.51E-09	1.51E-09	7.50E-10	1.48E-08
2936	256536.43	4086236.67	9.506E-09	1.27E-07	2.22E-08	2.22E-08	1.24E-08	1.93E-07	1.44E-09	1.93E-08	3.46E-09	3.46E-09	1.90E-09	2.96E-08	7.84E-10	1.05E-08	1.54E-09	1.54E-09	7.63E-10	1.51E-08
2937	256526.38	4086214.85	9.6517E-09	1.29E-07	2.25E-08	2.25E-08	1.26E-08	1.96E-07	1.46E-09	1.96E-08	3.52E-09	3.52E-09	1.93E-09	3.01E-08	7.96E-10	1.06E-08	1.56E-09	1.56E-09	7.74E-10	1.53E-08
2938	256516.33	4086193.03	9.7939E-09	1.31E-07	2.29E-08	2.29E-08	1.27E-08	1.99E-07	1.49E-09	1.99E-08	3.57E-09	3.57E-09	1.96E-09	3.05E-08	8.07E-10	1.08E-08	1.59E-09	1.59E-09	7.86E-10	1.56E-08
2939	256506.29	4086171.21	9.9287E-09	1.33E-07	2.32E-08	2.32E-08	1.29E-08	2.02E-07	1.51E-09	2.02E-08	3.62E-09	3.62E-09	1.99E-09	3.09E-08	8.18E-10	1.09E-08	1.61E-09	1.61E-09	7.97E-10	1.58E-08
2940	256496.24	4086149.39	1.0054E-08	1.34E-07	2.35E-08	2.35E-08	1.31E-08	2.04E-07	1.53E-09	2.05E-08	3.66E-09	3.66E-09	2.01E-09	3.13E-08	8.29E-10	1.11E-08	1.63E-09	1.63E-09	8.07E-10	1.60E-08
2941	256486.19	4086127.57	1.0166E-08	1.36E-07	2.37E-08	2.37E-08	1.32E-08	2.07E-07	1.54E-09	2.07E-08	3.70E-09	3.70E-09	2.04E-09	3.17E-08	8.38E-10	1.12E-08	1.65E-09	1.65E-09	8.16E-10	1.61E-08
2942	256476.14	4086105.75	1.026E-08	1.37E-07	2.39E-08	2.39E-08	1.33E-08	2.09E-07	1.56E-09	2.09E-08	3.74E-09	3.74E-09	2.05E-09	3.20E-08	8.46E-10	1.13E-08	1.66E-09	1.66E-09	8.23E-10	1.63E-08
2943	256466.1	4086083.93	1.0333E-08	1.38E-07	2.41E-08	2.41E-08	1.34E-08	2.10E-07	1.57E-09	2.10E-08	3.76E-09	3.76E-09	2.07E-09	3.22E-08	8.52E-10	1.14E-08	1.67E-09	1.67E-09	8.29E-10	1.64E-08
2944	256456.05	4086062.11	1.0382E-08	1.39E-07	2.42E-08	2.42E-08	1.35E-08	2.11E-07	1.58E-09	2.11E-08	3.78E-09	3.78E-09	2.08E-09	3.23E-08	8.56E-10	1.14E-08	1.68E-09	1.68E-09	8.33E-10	1.65E-08
2945	256446	4086040.29	1.0401E-08	1.39E-07	2.43E-08	2.43E-08	1.35E-08	2.11E-07	1.58E-09	2.12E-08	3.79E-09	3.79E-09	2.08E-09	3.24E-08	8.57E-10	1.15E-08	1.69E-09	1.69E-09	8.34E-10	1.65E-08
2946	256435.95	4086018.47	1.039E-08	1.39E-07	2.42E-08	2.42E-08	1.35E-08	2.11E-07	1.58E-09	2.11E-08	3.78E-09	3.78E-09	2.08E-09	3.24E-08	8.56E-10	1.14E-08	1.68E-09	1.68E-09	8.34E-10	1.65E-08
2947	256425.91	4085996.65	1.0344E-08	1.38E-07	2.41E-08	2.41E-08	1.35E-08	2.10E-07	1.57E-09	2.10E-08	3.77E-09	3.77E-09	2.07E-09	3.22E-08	8.53E-10	1.14E-08	1.68E-09	1.68E-09	8.30E-10	1.64E-08
2948	256415.86	4085974.83	1.0264E-08	1.37E-07	2.39E-08	2.39E-08	1.34E-08	2.09E-07	1.56E-09	2.09E-08	3.74E-09	3.74E-09	2.06E-09	3.20E-08	8.46E-10	1.13E-08	1.66E-09	1.66E-09	8.23E-10	1.63E-08

2949	256405.81	4085953.01	1.0147E-08	1.36E-07	2.37E-08	2.37E-08	1.32E-08	2.06E-07	1.54E-09	2.06E-08	3.70E-09	3.70E-09	2.03E-09	3.16E-08	8.36E-10	1.12E-08	1.64E-09	1.64E-09	8.14E-10	1.61E-08
2950	256395.76	4085931.19	9.9925E-09	1.33E-07	2.33E-08	2.33E-08	1.30E-08	2.03E-07	1.52E-09	2.03E-08	3.64E-09	3.64E-09	2.00E-09	3.11E-08	8.24E-10	1.10E-08	1.62E-09	1.62E-09	8.02E-10	1.59E-08
2951	256385.71	4085909.37	9.803E-09	1.31E-07	2.29E-08	2.29E-08	1.28E-08	1.99E-07	1.49E-09	1.99E-08	3.57E-09	3.57E-09	1.96E-09	3.05E-08	8.08E-10	1.08E-08	1.59E-09	1.59E-09	7.86E-10	1.56E-08
2952	256375.67	4085887.55	9.5825E-09	1.28E-07	2.24E-08	2.24E-08	1.25E-08	1.95E-07	1.45E-09	1.95E-08	3.49E-09	3.49E-09	1.92E-09	2.99E-08	7.90E-10	1.06E-08	1.55E-09	1.55E-09	7.69E-10	1.52E-08
2953	256365.62	4085865.73	9.3311E-09	1.25E-07	2.18E-08	2.18E-08	1.21E-08	1.90E-07	1.42E-09	1.90E-08	3.40E-09	3.40E-09	1.87E-09	2.91E-08	7.69E-10	1.03E-08	1.51E-09	1.51E-09	7.49E-10	1.48E-08
2954	256355.57	4085843.91	9.0249E-09	1.21E-07	2.11E-08	2.11E-08	1.17E-08	1.83E-07	1.37E-09	1.84E-08	3.29E-09	3.29E-09	1.81E-09	2.81E-08	7.44E-10	9.94E-09	1.46E-09	1.46E-09	7.24E-10	1.43E-08
2955	256345.52	4085822.09	8.6951E-09	1.16E-07	2.03E-08	2.03E-08	1.13E-08	1.77E-07	1.32E-09	1.77E-08	3.17E-09	3.17E-09	1.74E-09	2.71E-08	7.17E-10	9.57E-09	1.41E-09	1.41E-09	6.98E-10	1.38E-08
2956	256335.48	4085800.27	8.3362E-09	1.11E-07	1.94E-08	1.94E-08	1.08E-08	1.69E-07	1.27E-09	1.70E-08	3.04E-09	3.04E-09	1.67E-09	2.60E-08	6.87E-10	9.18E-09	1.35E-09	1.35E-09	6.69E-10	1.32E-08
2957	256325.43	4085778.45	7.9608E-09	1.06E-07	1.86E-08	1.86E-08	1.04E-08	1.62E-07	1.21E-09	1.62E-08	2.90E-09	2.90E-09	1.59E-09	2.48E-08	6.56E-10	8.77E-09	1.29E-09	1.29E-09	6.39E-10	1.26E-08
2958	256315.38	4085756.63	7.5709E-09	1.01E-07	1.77E-08	1.77E-08	9.85E-09	1.54E-07	1.15E-09	1.54E-08	2.76E-09	2.76E-09	1.52E-09	2.36E-08	6.24E-10	8.34E-09	1.23E-09	1.23E-09	6.07E-10	1.20E-08
2959	256305.33	4085734.81	7.1773E-09	9.59E-08	1.67E-08	1.67E-08	9.34E-09	1.46E-07	1.09E-09	1.46E-08	2.61E-09	2.61E-09	1.44E-09	2.24E-08	5.92E-10	7.90E-09	1.16E-09	1.16E-09	5.76E-10	1.14E-08
2960	256295.29	4085712.99	6.791E-09	9.07E-08	1.58E-08	1.58E-08	8.83E-09	1.38E-07	1.03E-09	1.38E-08	2.47E-09	2.47E-09	1.36E-09	2.12E-08	5.60E-10	7.48E-09	1.10E-09	1.10E-09	5.45E-10	1.08E-08
2961	256285.24	4085691.17	6.4193E-09	8.57E-08	1.50E-08	1.50E-08	8.35E-09	1.30E-07	9.74E-10	1.31E-08	2.34E-09	2.34E-09	1.29E-09	2.00E-08	5.29E-10	7.07E-09	1.04E-09	1.04E-09	5.15E-10	1.02E-08
2962	256275.19	4085669.35	6.0585E-09	8.09E-08	1.41E-08	1.41E-08	7.88E-09	1.23E-07	9.19E-10	1.23E-08	2.21E-09	2.21E-09	1.21E-09	1.89E-08	4.99E-10	6.67E-09	9.82E-10	9.82E-10	4.86E-10	9.62E-09
2963	256265.14	4085647.53	5.7269E-09	7.65E-08	1.34E-08	1.34E-08	7.45E-09	1.16E-07	8.69E-10	1.17E-08	2.09E-09	2.09E-09	1.15E-09	1.78E-08	4.72E-10	6.31E-09	9.28E-10	9.28E-10	4.59E-10	9.09E-09
2964	256255.09	4085625.71	5.4263E-09	7.25E-08	1.27E-08	1.27E-08	7.06E-09	1.10E-07	8.24E-10	1.10E-08	1.98E-09	1.98E-09	1.09E-09	1.69E-08	4.47E-10	5.97E-09	8.79E-10	8.79E-10	4.35E-10	8.62E-09
2965	256245.05	4085603.89	5.1602E-09	6.89E-08	1.20E-08	1.20E-08	6.71E-09	1.05E-07	7.83E-10	1.05E-08	1.88E-09	1.88E-09	1.03E-09	1.61E-08	4.25E-10	5.68E-09	8.36E-10	8.36E-10	4.14E-10	8.19E-09
2966	256235	4085582.07	4.9288E-09	6.58E-08	1.15E-08	1.15E-08	6.41E-09	1.00E-07	7.48E-10	1.00E-08	1.80E-09	1.80E-09	9.87E-10	1.54E-08	4.06E-10	5.43E-09	7.99E-10	7.99E-10	3.95E-10	7.83E-09
2967	256224.95	4085560.26	4.7339E-09	6.32E-08	1.10E-08	1.10E-08	6.16E-09	9.62E-08	7.18E-10	9.63E-09	1.72E-09	1.72E-09	9.48E-10	1.47E-08	3.90E-10	5.21E-09	7.67E-10	7.67E-10	3.80E-10	7.52E-09
2968	256214.9	4085538.44	4.5699E-09	6.10E-08	1.07E-08	1.07E-08	5.94E-09	9.29E-08	6.94E-10	9.30E-09	1.66E-09	1.66E-09	9.15E-10	1.42E-08	3.77E-10	5.03E-09	7.41E-10	7.41E-10	3.67E-10	7.26E-09
2969	256204.86	4085516.62	4.4332E-09	5.92E-08	1.03E-08	1.03E-08	5.77E-09	9.01E-08	6.73E-10	9.02E-09	1.61E-09	1.61E-09	8.88E-10	1.38E-08	3.65E-10	4.88E-09	7.19E-10	7.19E-10	3.56E-10	7.04E-09
2970	256194.81	4085494.8	4.3184E-09	5.77E-08	1.01E-08	1.01E-08	5.62E-09	8.78E-08	6.55E-10	8.79E-09	1.57E-09	1.57E-09	8.65E-10	1.35E-08	3.56E-10	4.75E-09	7.00E-10	7.00E-10	3.46E-10	6.86E-09
2971	256184.76	4085472.98	4.2218E-09	5.64E-08	9.85E-09	9.85E-09	5.49E-09	8.58E-08	6.41E-10	8.59E-09	1.54E-09	1.54E-09	8.46E-10	1.32E-08	3.48E-10	4.65E-09	6.84E-10	6.84E-10	3.39E-10	6.70E-09
2972	256174.71	4085451.16	4.1344E-09	5.52E-08	9.65E-09	9.65E-09	5.38E-09	8.40E-08	6.27E-10	8.41E-09	1.51E-09	1.51E-09	8.28E-10	1.29E-08	3.41E-10	4.55E-09	6.70E-10	6.70E-10	3.32E-10	6.56E-09
2973	256164.67	4085429.34	4.056E-09	5.42E-08	9.46E-09	9.46E-09	5.28E-09	8.24E-08	6.16E-10	8.25E-09	1.48E-09	1.48E-09	8.12E-10	1.26E-08	3.34E-10	4.47E-09	6.57E-10	6.57E-10	3.25E-10	6.44E-09
2974	256154.62	4085407.52	3.9795E-09	5.32E-08	9.28E-09	9.28E-09	5.18E-09	8.09E-08	6.04E-10	8.10E-09	1.45E-09	1.45E-09	7.97E-10	1.24E-08	3.28E-10	4.38E-09	6.45E-10	6.45E-10	3.19E-10	6.32E-09
2975	256144.57	4085385.7	3.903E-09	5.21E-08	9.11E-09	9.11E-09	5.08E-09	7.93E-08	5.92E-10	7.94E-09	1.42E-09	1.42E-09	7.82E-10	1.22E-08	3.22E-10	4.30E-09	6.33E-10	6.33E-10	3.13E-10	6.20E-09
2976	256134.52	4085363.88	3.8264E-09	5.11E-08	8.93E-09	8.93E-09	4.98E-09	7.78E-08	5.81E-10	7.79E-09	1.39E-09	1.39E-09	7.66E-10	1.19E-08	3.15E-10	4.21E-09	6.20E-10	6.20E-10	3.07E-10	6.08E-09
2977	256124.47	4085342.06	3.7499E-09	5.01E-08	8.75E-09	8.75E-09	4.88E-09	7.62E-08	5.69E-10	7.63E-09	1.37E-09	1.37E-09	7.51E-10	1.17E-08	3.09E-10	4.13E-09	6.08E-10	6.08E-10	3.01E-10	5.95E-09
2978	256114.43	4085320.24	3.6734E-09	4.91E-08	8.57E-09	8.57E-09	4.78E-09	7.47E-08	5.58E-10	7.48E-09	1.34E-09	1.34E-09	7.36E-10	1.14E-08	3.03E-10	4.04E-09	5.95E-10	5.95E-10	2.95E-10	5.83E-09
2979	256104.38	4085298.42	3.6023E-09	4.81E-08	8.40E-09	8.40E-09	4.69E-09	7.32E-08	5.47E-10	7.33E-09	1.31E-09	1.31E-09	7.21E-10	1.12E-08	2.97E-10	3.97E-09	5.84E-10	5.84E-10	2.89E-10	5.72E-09
2980	256094.33	4085276.6	3.5367E-09	4.72E-08	8.25E-09	8.25E-09	4.60E-09	7.19E-08	5.37E-10	7.20E-09	1.29E-09	1.29E-09	7.08E-10	1.10E-08	2.92E-10	3.89E-09	5.73E-10	5.73E-10	2.84E-10	5.62E-09
2981	256084.28	4085254.78	3.473E-09	4.64E-08	8.10E-09	8.10E-09	4.52E-09	7.06E-08	5.27E-10	7.07E-09	1.27E-09	1.27E-09	6.96E-10	1.08E-08	2.86E-10	3.82E-09	5.63E-10	5.63E-10	2.79E-10	5.51E-09
2982	256074.24	4085232.96	3.4201E-09	4.57E-08	7.98E-09	7.98E-09	4.45E-09	6.95E-08	5.19E-10	6.96E-09	1.25E-09	1.25E-09	6.85E-10	1.07E-08	2.82E-10	3.77E-09	5.54E-10	5.54E-10	2.74E-10	5.43E-09
2983	257629.53	4086654.13	6.3464E-09	8.48E-08	1.48E-08	1.48E-08	8.25E-09	1.29E-07	9.63E-10	1.29E-08	2.31E-09	2.31E-09	1.27E-09	1.98E-08	5.23E-10	6.99E-09	1.03E-09	1.03E-09	5.09E-10	1.01E-08
2984	257653.81	4086653.06	6.2881E-09	8.40E-08	1.47E-08	1.47E-08	8.18E-09	1.28E-07	9.54E-10	1.28E-08	2.29E-09	2.29E-09	1.26E-09	1.96E-08	5.18E-10	6.92E-09	1.02E-09	1.02E-09	5.04E-10	9.98E-09
2985	257678.09	4086651.98	6.2335E-09	8.33E-08	1.45E-08	1.45E-08	8.11E-09	1.27E-07	9.46E-10	1.27E-08	2.27E-09	2.27E-09	1.25E-09	1.94E-08	5.14E-10	6.86E-09	1.01E-09	1.01E-09	5.00E-10	9.90E-09
2986	257702.38	4086650.9	6.1788E-09	8.25E-08	1.44E-08	1.44E-08	8.04E-09	1.26E-07	9.38E-10	1.26E-08	2.25E-09	2.25E-09	1.24E-09	1.93E-08	5.09E-10	6.80E-09	1.00E-09	1.00E-09	4.96E-10	9.81E-09
2987	257726.66	4086649.83	6.1278E-09	8.19E-08	1.43E-08	1.43E-08	7.97E-09	1.25E-07	9.30E-10	1.25E-08	2.23E-09	2.23E-09	1.23E-09	1.91E-08	5.05E-10	6.75E-09	9.93E-10	9.93E-10	4.92E-10	9.73E-09
2988	257750.94	4086648.75	6.0768E-09	8.12E-08	1.42E-08	1.42E-08	7.90E-09	1.24E-07	9.22E-10	1.24E-08	2.21E-09	2.21E-09	1.22E-09	1.89E-08	5.01E-10	6.69E-09	9.85E-10	9.85E-10	4.87E-10	9.65E-09
2989	257775.22	4086647.68	6.0239E-09	8.05E-08	1.41E-08	1.41E-08	7.84E-09	1.22E-07	9.14E-10	1.23E-08	2.19E-09	2.19E-09	1.21E-09	1.88E-08	4.97E-10	6.63E-09	9.76E-10	9.76E-10	4.83E-10	9.57E-09
2990	257799.5	4086646.6	5.9692E-09	7.97E-08	1.39E-08	1.39E-08	7.76E-09	1.21E-07	9.06E-10	1.21E-08	2.17E-09	2.17E-09	1.20E-09	1.86E-08	4.92E-10	6.57E-09	9.67E-10	9.67E-10	4.79E-10	9.48E-09
2991	257823.79	4086645.53	5.9109E-09	7.90E-08	1.38E-08	1.38E-08	7.69E-09	1.20E-07	8.97E-10	1.20E-08	2.15E-09	2.15E-09	1.18E-09	1.84E-08	4.87E-10	6.51E-09	9.58E-10	9.58E-10	4.74E-10	9.39E-09
2992	257848.07	4086644.45	5.8472E-09	7.81E-08	1.36E-08	1.36E-08	7.61E-09	1.19E-07	8.87E-10	1.19E-08	2.13E-09	2.13E-09	1.17E-09	1.82E-08	4.82E-10	6.44E-09	9.48E-10	9.48E-10	4.69E-10	9.28E-09
2993	257872.35	4086643.38	5.7779E-09	7.72E-08	1.35E-08	1.35E-08	7.52E-09	1.17E-07	8.77E-10	1.18E-08	2.10E-09	2.10E-09	1.16E-09	1.80E-08	4.76E-10	6.36E-09	9.36E-10	9.36E-10	4.64E-10	9.17E-09
2994	257896.63	4086642.3	5.7014E-09	7.62E-08	1.33E-08	1.33E-08	7.42E-09	1.16E-07	8.65E-10	1.16E-08	2.08E-09	2.08E-09	1.14E-09	1.78E-08	4.70E-10	6.28E-09	9.24E-10	9.24E-10	4.57E-10	9.05E-09
2995	257920.91	4086641.23	5.6194E-09	7.51E-08	1.31E-08	1.31E-08	7.31E-09	1.14E-07	8.53E-10	1.14E-08	2.05E-09	2.05E-09	1.13E-09	1.75E-08	4.63E-10	6.19E-09	9.11E-10	9.11E-10	4.51E-10	8.92E-09
2996	257945.19	4086640.15	5.5301E-09	7.39E-08	1.29E-08	1.29E-08	7.19E-09	1.12E-07	8.39E-10	1.13E-08	2.01E-09	2.01E-09	1.11E-09	1.72E-08	4.56E-10	6.09E-09	8.96E-10	8.96E-10	4.44E-10	8.78E-09
2997	257969.48	4086639.07	5.4354E-09	7.26E-08	1.27E-08	1.27E-08	7.07E-09	1.10E-07	8.25E-10	1.11E-08	1.98E-09	1.98E-09	1.09E-09	1.69E-08	4.48E-10	5.98E-09	8.81E-10	8.81E-10	4.36E-10	8.63E-09
2998	257993.76	4086638	5.3352E-09	7.13E-08	1.24E-08	1.24E-08	6.94E-09	1.08E-07	8.10E-10	1.09E-08	1.94E-09	1.94E-09	1.07E-09	1.66E-08	4.40E-10	5.87E-09	8.65E-10	8.65E-10	4.28E-10	8.47E-09
2999	258018.04	4086636.92	5.2295E-09	6.99E-08	1.22E-08	1.22E-08	6.80E-09	1.06E-07	7.94E-10	1.06E-08	1.91E-09	1.91E-09	1.05E-09	1.63E-08	4.31E-10	5.76E-09	8.48E-10	8.48E-10	4.20E-10	8.30E-09
3000	258042.32	4086635.85	5.122E-09	6.84E-08	1.20E-08	1.20E-08	6.66E-09	1.04E-07	7.77E-10	1.04E-08	1.87E-09	1.87E-09	1.03E-09	1.60E-08	4.22E-10	5.64E-09	8.30E-10	8.30E-10	4.11E-10	8.13E-09
3001	258066.6	4086634.77	5.0145E-09	6.70E-08	1.17E-08	1.17E-08	6.52E-09	1.02E-07	7.61E-10	1.02E-08	1.83E-09	1.83E-09	1.00E-09	1.56E-08	4.13E-10	5.52E-09	8.13E-10	8.13E-10	4.02E-10	7.96E-09
3002	258090.89	4086633.7	4.9088E-09	6.56E-08	1.15E-08	1.15E-08	6.38E-09	9.98E-08	7.45E-10	9.99E-09	1.79E-09	1.79E-09	9.83E-10	1.53E-08	4.05E-10	5.40E-09	7.96E-10	7.96E-10	3.94E-10	7.79E-09
3003	258115.17	4086632.62	4.8049E-09	6.42E-08	1.12E-08	1.12E-08	6.25E-09	9.77E-08	7.29E-10	9.78E-09	1.75E-09	1.75E-09	9.62E-10	1.50E-08	3.96E-10	5.29E-09	7.79E-10	7.79E-10	3.85E-10	7.63E-09
3004	258139.45	4086631.55	4.7065E-09	6.29E-08	1.10E-08	1.10E-08	6.12E-09	9.57E-08	7.14E-10	9.58E-09	1.71E-09	1.71E-09	9.43E-10	1.47E-08	3.88E-10	5.18E-09	7.63E-10	7.63E-10	3.78E-10	7.47E-09
3005	258163.73	4086630.47	4.6154E-09	6.17E-08	1.08E-08	1.08E-08	6.00E-09	9.38E-08	7.00E-10	9.39E-09	1.68E-09	1.68E-09	9.24E-10	1.44E-08	3.80E-10	5.08E-09	7.48E-10	7.48E-10	3.70E-10	7.33E-09
3006	258188.01	4086629.4	4.5316E-09	6.05E-08	1.06E-08	1.06E-08	5.89E-09	9.21E-08	6.88E-10	9.22E-09	1.65E-09	1.65E-09	9.08E-10	1.41E-08	3.74E-10	4.99E-09	7.34E-10	7.34E-10	3.64E-10	7.20E-09
3007	258212.29	4086628.32	4.4533E-09	5.95E-08	1.04E-08	1.04E-08	5.79E-09	9.05E-08	6.76E-10	9.06E-09	1.62E-09	1.62E-09	8.92E-10	1.39E-08	3.67E-10	4.90E-09	7.22E-10	7.22E-10	3.57E-10	7.07E-09
3008	258236.58	4086627.24	4.3804E-09	5.85E-08	1.02E-08	1.02E-08	5.70E-09	8.90E-08	6.65E-10	8.91E-09	1.60E-09	1.60E-09	8.77E-10	1.36E-08	3.61E-10	4.82E-09	7.10E-10	7.10E-10	3.51E-10	6.96E-09
3009	258260.86	4086626.17	4.3111E-09	5.76E-08	1.01E-08	1.01E-08	5.61E-09	8.76E-08	6.54E-10	8.77E-09	1.57E-09	1.57E-09	8.63E-10	1.34E-08	3.55E-10	4.75E-09	6.99E-10	6.99E-10	3.46E-10	6.85E-09
3010	258285.14	4086625.09	4.2455E-09	5.67E-08	9.91E-09	9.91E-09	5.52E-09	8.63E-08	6.44E-10	8.64E-09	1.55E-09	1.55E-09	8.50E-10	1.32E-08	3.50E-10	4.67E-09	6.88E-10	6.88E-10	3.41E-10	6.74E-09
3011	258309.42	4086624.02	4.1818E-09	5.59E-08	9.76E-09	9.76E-09	5.44E-09	8.50E-08	6.35E-10	8.51E-09	1.52E-09	1.52E-09	8.37E-10	1.30E-08	3.45E-10	4.60E-09	6.78E-10	6.78E-10	3.35E-10	6.64E-09
3012	258333.7	4086622.94	4.118E-09	5.50E-08	9.61E-09	9.61E-09	5.36E-09	8.37E-08	6.25E-10	8.38E-09	1.50E-09	1.50E-09	8.25E-10	1.28E-08	3.39E-10	4.53E-09	6.67E-10	6.67E-10	3.30E-10	6.54E-09
3013	258357.99	4086621.87	4.056E-09	5.42E-08	9.46E-09	9.46E-09	5.28E-09	8.24E-08	6.16E-10	8.25E-09	1.48E-09	1.48E-09	8.12E-10	1.26E-08	3.34E-10	4.47E-09	6.57E-10	6.57E-10	3.25E-10	6.44E-09
3014	258382.27	4086620.79	3.9959E-09	5.34E-08	9.32E-09	9.32E-09	5.20E-09	8.12E-08	6.06E-10	8.13E-09	1.46E-09	1.46E-09	8.00E-10	1.24E-08	3.29E-10	4.40E-09	6.48E-10	6.48E-10	3.21E-10	6.34E-09
3015	258406.55	4086619.72	3.9339E-09	5.25E-08	9.18E-09	9.18E-09	5.12E-09	8.00E-08	5.97E-10	8.01E-09	1.43E-09	1.43E-09	7.88E-10	1.23E-08	3.24E-10	4.33E-09	6.38E-10	6.38E-10	3.16E-10	6.25E-09
3016	258430.83	4086618.64	3.872E-09	5.17E-08	9.03E-09	9.03E-09	5.04E-09	7.87E-08	5.88E-10	7.88E-09	1.41E-09	1.41E-09	7.75E-10	1.21E-08	3.19E-10	4.26E-09	6.28E-10	6.28E-10	3.11E-10	6.15E-09

			UnMitigated		2827			T2					T2L3				
			2823	256582.52	4085895.32												
			1.35E-05	1.95E-04	1.44E-04	1.44E-04	8.01E-05	2.05E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.61E-05	9.98E-06	9.98E-06	4.94E-06
			Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
1	258389.45	4085119.38	2.39E-04	3.46E-03	2.55E-03	2.55E-03	1.42E-03	3.63E-05	5.26E-04	3.98E-04	3.98E-04	2.19E-04	1.97E-05	2.85E-04	1.77E-04	1.77E-04	8.76E-05
2	258388.73	4085094.62	3.81E-04	5.51E-03	4.06E-03	4.06E-03	2.26E-03	5.78E-05	8.39E-04	6.34E-04	6.34E-04	3.48E-04	3.14E-05	4.54E-04	2.82E-04	2.82E-04	1.40E-04
3	258388	4085069.87	5.28E-04	7.63E-03	5.63E-03	5.63E-03	3.14E-03	8.01E-05	1.16E-03	8.79E-04	8.79E-04	4.83E-04	4.35E-05	6.29E-04	3.91E-04	3.91E-04	1.93E-04
4	258387.28	4085045.11	6.21E-04	8.98E-03	6.62E-03	6.62E-03	3.69E-03	9.42E-05	1.37E-03	1.03E-03	1.03E-03	5.68E-04	5.12E-05	7.40E-04	4.60E-04	4.60E-04	2.28E-04
5	258386.56	4085020.36	6.74E-04	9.75E-03	7.19E-03	7.19E-03	4.01E-03	1.02E-04	1.49E-03	1.12E-03	1.12E-03	6.17E-04	5.56E-05	8.04E-04	4.99E-04	4.99E-04	2.47E-04
6	258385.84	4084995.6	7.00E-04	1.01E-02	7.46E-03	7.46E-03	4.16E-03	1.06E-04	1.54E-03	1.17E-03	1.17E-03	6.41E-04	5.77E-05	8.35E-04	5.18E-04	5.18E-04	2.57E-04
7	258385.11	4084970.84	7.00E-04	1.01E-02	7.46E-03	7.46E-03	4.16E-03	1.06E-04	1.54E-03	1.17E-03	1.17E-03	6.41E-04	5.77E-05	8.35E-04	5.19E-04	5.19E-04	2.57E-04
8	258384.39	4084946.09	6.71E-04	9.71E-03	7.16E-03	7.16E-03	3.99E-03	1.02E-04	1.48E-03	1.12E-03	1.12E-03	6.14E-04	5.53E-05	8.00E-04	4.97E-04	4.97E-04	2.46E-04
9	258383.67	4084921.33	5.79E-04	8.37E-03	6.17E-03	6.17E-03	3.44E-03	8.79E-05	1.28E-03	9.64E-04	9.64E-04	5.30E-04	4.77E-05	6.90E-04	4.29E-04	4.29E-04	2.12E-04
10	258407.76	4085136.4	1.47E-04	2.13E-03	1.57E-03	1.57E-03	8.74E-04	2.23E-05	3.24E-04	2.45E-04	2.45E-04	1.35E-04	1.21E-05	1.75E-04	1.09E-04	1.09E-04	5.39E-05
11	258383.88	4085162.1	1.42E-04	2.05E-03	1.51E-03	1.51E-03	8.43E-04	2.15E-05	3.13E-04	2.36E-04	2.36E-04	1.30E-04	1.17E-05	1.69E-04	1.05E-04	1.05E-04	5.20E-05
12	258413.72	4085093.9	2.34E-04	3.39E-03	2.50E-03	2.50E-03	1.39E-03	3.56E-05	5.16E-04	3.90E-04	3.90E-04	2.14E-04	1.93E-05	2.79E-04	1.74E-04	1.74E-04	8.59E-05
13	258412.99	4085069.14	3.15E-04	4.55E-03	3.35E-03	3.35E-03	1.87E-03	4.78E-05	6.93E-04	5.24E-04	5.24E-04	2.88E-04	2.59E-05	3.75E-04	2.33E-04	2.33E-04	1.15E-04
14	258412.27	4085044.38	3.83E-04	5.54E-03	4.09E-03	4.09E-03	2.28E-03	5.82E-05	8.45E-04	6.38E-04	6.38E-04	3.51E-04	3.16E-05	4.57E-04	2.84E-04	2.84E-04	1.40E-04
15	258411.55	4085019.63	4.32E-04	6.25E-03	4.60E-03	4.60E-03	2.57E-03	6.55E-05	9.51E-04	7.19E-04	7.19E-04	3.95E-04	3.56E-05	5.15E-04	3.20E-04	3.20E-04	1.58E-04
16	258410.83	4084994.87	4.61E-04	6.67E-03	4.92E-03	4.92E-03	2.74E-03	7.00E-05	1.02E-03	7.67E-04	7.67E-04	4.22E-04	3.80E-05	5.50E-04	3.41E-04	3.41E-04	1.69E-04
17	258410.1	4084970.11	4.72E-04	6.83E-03	5.03E-03	5.03E-03	2.81E-03	7.17E-05	1.04E-03	7.86E-04	7.86E-04	4.32E-04	3.89E-05	5.63E-04	3.50E-04	3.50E-04	1.73E-04
18	258409.38	4084945.36	4.63E-04	6.70E-03	4.93E-03	4.93E-03	2.75E-03	7.03E-05	1.02E-03	7.71E-04	7.71E-04	4.24E-04	3.82E-05	5.52E-04	3.43E-04	3.43E-04	1.70E-04
19	258408.66	4084920.6	4.30E-04	6.21E-03	4.58E-03	4.58E-03	2.55E-03	6.52E-05	9.46E-04	7.15E-04	7.15E-04	3.93E-04	3.54E-05	5.12E-04	3.18E-04	3.18E-04	1.57E-04
20	258432.75	4085135.67	1.16E-04	1.67E-03	1.23E-03	1.23E-03	6.88E-04	1.76E-05	2.55E-04	1.93E-04	1.93E-04	1.06E-04	9.54E-06	1.38E-04	8.57E-05	8.57E-05	4.24E-05
21	258402.2	4085179.12	1.02E-04	1.48E-03	1.09E-03	1.09E-03	6.06E-04	1.55E-05	2.25E-04	1.70E-04	1.70E-04	9.34E-05	8.41E-06	1.22E-04	7.56E-05	7.56E-05	3.74E-05
22	258438.71	4085093.17	1.66E-04	2.40E-03	1.77E-03	1.77E-03	9.88E-04	2.52E-05	3.66E-04	2.77E-04	2.77E-04	1.52E-04	1.37E-05	1.98E-04	1.23E-04	1.23E-04	6.09E-05
23	258437.98	4085068.41	2.14E-04	3.09E-03	2.28E-03	2.28E-03	1.27E-03	3.24E-05	4.70E-04	3.55E-04	3.55E-04	1.95E-04	1.76E-05	2.55E-04	1.58E-04	1.58E-04	7.83E-05
24	258437.26	4085043.65	2.61E-04	3.77E-03	2.78E-03	2.78E-03	1.55E-03	3.96E-05	5.74E-04	4.34E-04	4.34E-04	2.39E-04	2.15E-05	3.11E-04	1.93E-04	1.93E-04	9.56E-05
25	258436.54	4085018.9	3.00E-04	4.34E-03	3.20E-03	3.20E-03	1.78E-03	4.55E-05	6.61E-04	4.99E-04	4.99E-04	2.74E-04	2.47E-05	3.57E-04	2.22E-04	2.22E-04	1.10E-04
26	258435.82	4084994.14	3.28E-04	4.74E-03	3.49E-03	3.49E-03	1.95E-03	4.97E-05	7.22E-04	5.45E-04	5.45E-04	3.00E-04	2.70E-05	3.91E-04	2.43E-04	2.43E-04	1.20E-04
27	258435.09	4084969.38	3.43E-04	4.96E-03	3.66E-03	3.66E-03	2.04E-03	5.21E-05	7.56E-04	5.71E-04	5.71E-04	3.14E-04	2.83E-05	4.09E-04	2.54E-04	2.54E-04	1.26E-04
28	258434.37	4084944.63	3.45E-04	4.99E-03	3.68E-03	3.68E-03	2.05E-03	5.23E-05	7.60E-04	5.74E-04	5.74E-04	3.16E-04	2.84E-05	4.11E-04	2.55E-04	2.55E-04	1.26E-04
29	258433.65	4084919.87	3.33E-04	4.82E-03	3.55E-03	3.55E-03	1.98E-03	5.06E-05	7.34E-04	5.55E-04	5.55E-04	3.05E-04	2.75E-05	3.97E-04	2.47E-04	2.47E-04	1.22E-04
30	258457.74	4085134.94	9.45E-05	1.37E-03	1.01E-03	1.01E-03	5.62E-04	1.43E-05	2.08E-04	1.57E-04	1.57E-04	8.65E-05	7.79E-06	1.13E-04	7.00E-05	7.00E-05	3.46E-05
31	258444.39	4085170.43	7.99E-05	1.16E-03	8.52E-04	8.52E-04	4.75E-04	1.21E-05	1.76E-04	1.33E-04	1.33E-04	7.31E-05	6.59E-06	9.53E-05	5.92E-05	5.92E-05	2.93E-05
32	258420.51	4085196.14	7.84E-05	1.13E-03	8.36E-04	8.36E-04	4.66E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.17E-05	6.46E-06	9.35E-05	5.81E-05	5.81E-05	2.87E-05
33	258386.09	4085212.05	8.81E-05	1.27E-03	9.39E-04	9.39E-04	5.23E-04	1.34E-05	1.94E-04	1.47E-04	1.47E-04	8.06E-05	7.26E-06	1.05E-04	6.52E-05	6.52E-05	3.23E-05
34	258463.69	4085092.44	1.27E-04	1.84E-03	1.36E-03	1.36E-03	7.57E-04	1.93E-05	2.81E-04	2.12E-04	2.12E-04	1.17E-04	1.05E-05	1.52E-04	9.43E-05	9.43E-05	4.67E-05
35	258462.97	4085067.68	1.58E-04	2.28E-03	1.68E-03	1.68E-03	9.37E-04	2.39E-05	3.47E-04	2.62E-04	2.62E-04	1.44E-04	1.30E-05	1.88E-04	1.17E-04	1.17E-04	5.78E-05
36	258462.25	4085042.92	1.90E-04	2.75E-03	2.03E-03	2.03E-03	1.13E-03	2.89E-05	4.19E-04	3.16E-04	3.16E-04	1.74E-04	1.57E-05	2.27E-04	1.41E-04	1.41E-04	6.97E-05
37	258461.53	4085018.17	2.20E-04	3.18E-03	2.35E-03	2.35E-03	1.31E-03	3.34E-05	4.85E-04	3.66E-04	3.66E-04	2.01E-04	1.81E-05	2.62E-04	1.63E-04	1.63E-04	8.07E-05
38	258460.8	4084993.41	2.44E-04	3.53E-03	2.60E-03	2.60E-03	1.45E-03	3.71E-05	5.38E-04	4.06E-04	4.06E-04	2.23E-04	2.01E-05	2.91E-04	1.81E-04	1.81E-04	8.95E-05
39	258460.08	4084968.66	2.60E-04	3.77E-03	2.78E-03	2.78E-03	1.55E-03	3.95E-05	5.74E-04	4.33E-04	4.33E-04	2.38E-04	2.15E-05	3.10E-04	1.93E-04	1.93E-04	9.54E-05
40	258459.36	4084943.9	2.67E-04	3.87E-03	2.85E-03	2.85E-03	1.59E-03	4.06E-05	5.89E-04	4.45E-04	4.45E-04	2.45E-04	2.20E-05	3.19E-04	1.98E-04	1.98E-04	9.80E-05
41	258458.64	4084919.14	2.64E-04	3.82E-03	2.81E-03	2.81E-03	1.57E-03	4.01E-05	5.82E-04	4.39E-04	4.39E-04	2.42E-04	2.18E-05	3.15E-04	1.96E-04	1.96E-04	9.68E-05
42	258506.39	4085137.03	6.69E-05	9.67E-04	7.13E-04	7.13E-04	3.97E-04	1.02E-05	1.47E-04	1.11E-04	1.11E-04	6.12E-05	5.51E-06	7.97E-05	4.95E-05	4.95E-05	2.45E-05
43	258498.38	4085158.32	6.18E-05	8.94E-04	6.59E-04	6.59E-04	3.67E-04	9.38E-06	1.36E-04	1.03E-04	1.03E-04	5.65E-05	5.09E-06	7.37E-05	4.58E-05	4.58E-05	2.26E-05
44	258490.37	4085179.62	5.71E-05	8.26E-04	6.09E-04	6.09E-04	3.40E-04	8.67E-06	1.26E-04	9.51E-05	9.51E-05	5.23E-05	4.71E-06	6.81E-05	4.23E-05	4.23E-05	2.09E-05
45	258482.36	4085200.92	5.30E-05	7.66E-04	5.65E-04	5.65E-04	3.15E-04	8.04E-06	1.17E-04	8.82E-05	8.82E-05	4.85E-05	4.37E-06	6.32E-05	3.92E-05	3.92E-05	1.94E-05
46	258453.7	4085231.76	5.22E-05	7.55E-04	5.56E-04	5.56E-04	3.10E-04	7.92E-06	1.15E-04	8.69E-05	8.69E-05	4.78E-05	4.30E-06	6.22E-05	3.87E-05	3.87E-05	1.91E-05
47	258433.05	4085241.31	5.52E-05	7.99E-04	5.89E-04	5.89E-04	3.28E-04	8.38E-06	1.22E-04	9.19E-05	9.19E-05	5.05E-05	4.55E-06	6.59E-05	4.09E-05	4.09E-05	2.02E-05
48	258412.4	4085250.86	5.83E-05	8.44E-04	6.22E-04	6.22E-04	3.47E-04	8.85E-06	1.29E-04	9.71E-05	9.71E-05	5.34E-05	4.81E-06	6.96E-05	4.32E-05	4.32E-05	2.14E-05
49	258391.75	4085260.41	6.15E-05	8.89E-04	6.55E-04	6.55E-04	3.65E-04	9.33E-06	1.35E-04	1.02E-04	1.02E-04	5.63E-05	5.07E-06	7.33E-05	4.55E-05	4.55E-05	2.25E-05
50	258514.4	4085115.73	7.23E-05	1.05E-03	7.71E-04	7.71E-04	4.30E-04	1.10E-05	1.59E-04	1.20E-04	1.20E-04	6.62E-05	5.96E-06	8.62E-05	5.35E-05	5.35E-05	2.65E-05
51	258513.67	4085090.98	8.46E-05	1.22E-03	9.02E-04	9.02E-04	5.03E-04	1.28E-05	1.86E-04	1.41E-04	1.41E-04	7.75E-05	6.98E-06	1.01E-04	6.27E-05	6.27E-05	3.10E-05
52	258512.95	4085066.22	9.95E-05	1.44E-03	1.06E-03	1.06E-03	5.91E-04	1.51E-05	2.19E-04	1.66E-04	1.66E-04	9.10E-05	8.20E-06	1.19E-04	7.37E-05	7.37E-05	3.65E-05
53	258512.23	4085041.47	1.16E-04	1.68E-03	1.24E-03	1.24E-03	6.90E-04	1.76E-05	2.56E-04	1.93E-04	1.93E-04	1.06E-04	9.57E-06	1.38E-04	8.60E-05	8.60E-05	4.26E-05
54	258511.51	4085016.71	1.33E-04	1.93E-03	1.42E-03	1.42E-03	7.92E-04	2.02E-05	2.94E-04	2.22E-04	2.22E-04	1.22E-04	1.10E-05	1.59E-04	9.87E-05	9.87E-05	4.89E-05
55	258510.78	4084991.95	1.49E-04	2.16E-03	1.59E-03	1.59E-03	8.87E-04	2.27E-05	3.29E-04	2.49E-04	2.49E-04	1.37E-04	1.23E-05	1.78E-04	1.11E-04	1.11E-04	5.47E-05
56	258510.06	4084967.2	1.63E-04	2.35E-03	1.73E-03	1.73E-03	9.66E-04	2.47E-05	3.58E-04	2.71E-04	2.71E-04	1.49E-04	1.34E-05	1.94E-04	1.20E-04	1.20E-04	5.96E-05
57	258509.34	4084942.44	1.72E-04	2.49E-03	1.83E-03	1.83E-03	1.02E-03	2.61E-05	3.79E-04	2.86E-04	2.86E-04	1.57E-04	1.42E-05	2.05E-04	1.27E-04	1.27E-04	6.31E-05
58	258508.62	4084917.68	1.77E-04	2.56E-03	1.89E-03	1.89E-03	1.05E-03	2.68E-05	3.90E-04	2.94E-04	2.94E-04	1.62E-04	1.46E-05	2.11E-04	1.31E-04	1.31E-04	6.48E-05
59	258556.75	4085134.56	5.12E-05	7.41E-04	5.46E-04	5.46E-04	3.05E-04	7.78E-06	1.13E-04	8.53E-05	8.53E-05	4.69E-05	4.22E-06	6.11E-05	3.80E-05	3.80E-05	1.88E-05
60	258541.49	4085175.12	4.54E-05	6.56E-04	4.84E-04	4.84E-04	2.70E-04	6.88E-06	9.99E-05	7.55E-05	7.55E-05	4.15E-05	3.74E-06	5.41E-05	3.36E-05	3.36E-05	1.66E-05
61	258526.23	4085215.68	4.01E-05	5.80E-04	4.28E-04	4.28E-04	2.38E-04	6.09E-06	8.84E-05	6.68E-05	6.68E-05	3.67E-05	3.31E-06	4.78E-05	2.97E-05	2.97E-05	1.47E-05
62	258491.31	4085265.34	3.74E-05	5.41E-04	3.99E-04	3.99E-04	2.22E-04	5.68E-06	8.24E-05	6.23E-05	6.23E-05	3.42E-05	3.08E-06	4.46E-05	2.77E-05	2.77E-05	1.37E-05
63	258451.98	4085283.53	4.10E-05	5.93E-04	4.37E-04	4.37E-04	2.44E-04	6.22E-06	9.03E-05	6.82E-05	6.82E-05	3.75E-05	3.38E-06	4.89E-05	3.04E-05	3.04E-05	1.50E-05
64	258412.64	4085301.72	4.46E-05	6.45E-04	4.76E-04	4.76E-04	2.65E-04	6.77E-06	9.83E-05	7.43E-05	7.43E-05	4.08E-05	3.68E-06	5.32E-05	3.30E-05	3.30E-05	1.64E-05
65	258563.65	4085089.52	6.16E-05	8.91E-04	6.57E-04	6.57E-04	3.66E-04	9.35E-06	1.36E-04	1.03E-04	1.03E-04	5.64E-05	5.08E-06	7.34E-05	4.56E-05	4.56E-05	2.26E-05
66	258562.93	4085064.76	7.01E-05	1.01E-03	7.47E-04	7.47E-04	4.17E-04	1.06E-05	1.54E-04	1.17E-04	1.17E-04	6.41E-05	5.78E-06	8.36E-05	5.19E-05	5.19E-05	2.57E-05
67	258562.21	4085040.01	7.97E-05	1.15E-03	8.49E-04	8.49E-04	4.73E-04	1.21E-05	1.76E-04	1.33E-04	1.33E-04	7.29E-05	6.57E-06	9.50E-05	5.90E-05	5.90E-05	2.92E-05
68	258561.48	4085015.25	8.99E-05	1.30E-03	9.59E-04	9.59E-04	5.34E-04	1.36E-05	1.98E-04	1.50E-04	1.50E-04	8.23E-05	7.41E-06	1.07E-04	6.66E-05	6.66E-05	3.30E-05
69	258560.76	4084990.49	1.00E-04	1.45E-03	1.07E-03	1.07E-03	5.96E-04	1.52E-05	2.21E-04	1.67E-04	1.67E-04	9.17E-05	8.26E-06	1.19E-04	7.42E-05	7.42E-05	3.67E-05
70	258560.04	4084965.74	1.10E-04	1.59E-03	1.17E-03	1.17E-03	6.53E-04	1.67E-05	2.42E-04	1.83E-04	1.83E-04	1.01E-04	9.05E-06	1.31E-04	8.13E-05	8.13E-05	4.03E-05
71	258559.32	4084940.98	1.18E-04	1.71E-03	1.26E-03	1.26E-03	7.01E-04	1.79E-05	2.60E-04	1.96E-04	1.96E-04	1.08E-04	9.73E-06	1.41E-04	8.74E-05	8.74E-05	4.33E-05
72	258558.59	4084916.23	1.24E-04	1.80E-03	1.32E-03	1.32E-03	7.38E-04	1.88E-05	2.73E-04	2.07E-04	2.07E-04	1.14E-04	1.02E-05	1.48E-04	9.19E-05	9.19E-05	4.55E-05
73	258606.01	4085135	4.05E-05	5.85E-04	4.31E-04	4.31E-04	2.40E-04	6.14E-06	8.91E-05	6.73E-05	6.73E-05	3.70E-05	3.33E-06	4.82E-05	3.00E-05	3.00E-05	1.48E-05
74	258597.67	4085157.18	3.83E-05	5.54E-04	4.08E-04	4.08E-04	2.28E-04	5.81E-06	8.44E-05	6.38E-05	6.38E-05	3.51E-05	3.16E-06	4.57E-05	2.84E-05	2.84E-05	1.40E-05
75	258589.32	4085179.36	3.62E-05	5.24E-04	3.86E-04	3.86E-04	2.15E-04	5.49E-06	7.98E-05	6.03E-05	6.03E-05	3.31E-05	2.98E-06	4.32E-05	2.68E-05	2.68E-05	1.33E-05
76	258580.98	4085201.55	3.42E-05	4.94E-04	3.64E-04	3.64E-04	2.03E-04	5.18E-06	7.53E-05	5.69E-05	5.69E-05	3.13E-05	2.82E-06	4.07E-05	2.53E-05	2.53E-05	1.25E-05
77	258572.64	4085223.73	3.22E-05	4.66E-04	3.44E-04	3.44E-04	1.92E-04	4.89E-06	7.10E-05	5.37E-05	5.37E-05	2.95E-05	2.66E-06	3.84E-05	2.39E-05	2.39E-05	1.18E-05
78	258564.29	4085245.91	3.05E-05	4.40E-04	3.25E-04	3.25E-04	1.81E-04	4.62E-06	6.71E-05	5.07E-05	5.07E-05	2.79E-05	2.51E-06	3.63E-05	2.26E-05	2.26E-05	1.12E-05
79	258555.95	4085268.1	2.88E-05	4.17E-04	3.07E-04	3.07E-04	1.71E-04	4.38E-06	6.35E-05	4.80E-05	4.80E-05	2.64E-05	2.38E-06	3.44E-05	2.13E-05	2.13E-05	1.06E-05
80	258526.1	4085300.23	2.85E-05	4.12E-04	3.04E-04	3.04E-04	1.69E-04	4.33E-06	6.28E-05	4.75E-05	4.75E-05	2.61E-05	2.35E-06	3.40E-05	2.11E-05	2.11E-05	1.05E-05
81	258504.59	4085310.17	2.98E-05	4.31E-04	3.18E-04	3.18E-04	1.77E-04	4.52E-06	6.56E-05	4.96E-05	4.96E-05	2.73E-05	2.46E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
82	258483.08	4085320.12	3.11E-05	4.50E-04	3.32E-04	3.32E-04	1.85E-04	4.73E-06	6.86E-05	5.18E-05	5.18E-05	2.85E-05	2.57E-06	3.71E-05	2.31E-05	2.31E-05	1.14E-05
83	258461.56	4085330.07	3.25E-05	4.70E-04	3.46E-04	3.46E-04	1.93E-04	4.93E-06	7.16E-05	5.41E-05	5.41E-05	2.97E-05	2.68E-06	3.87E-05	2.41E-05	2.41E-05	1.19E-05
84	258440.05	4085340.02	3.38E-05	4.89E-04	3.60E-04	3.60E-04	2.01E-04	5.13E-06	7.45E-05	5.63E-05	5.63E-05	3.09E-05	2.79E-06	4.03E-05	2.50E-05	2.50E-05	1.24E-05
85	258418.54	4085349.97	3.51E-05	5.08E-04	3.74E-04	3.74E-04	2.09E-04	5.33E-06	7.74E-05	5.84E-05	5.84E-05	3.21E-05	2.89E-06	4.19E-05	2.60E-05	2.60E-05	1.29E-05
86	258397.03	4085359.92	3.65E-05	5.28E-04	3.89E-04	3.89E-04	2.17E-04	5.54E-06	8.04E-05	6.07E-05	6.07E-05	3.34E-05	3.01E-06	4.35E-05	2.70E-05	2.70E-05	1.34E-05
87	258614.35	4085112.82	4.26E-05	6.16E-04	4.54E-04	4.54E-04	2.53E-04	6.47E-06	9.39E-05	7.09E-05	7.09E-05	3.90E-05	3.51E-06	5.08E-05	3.15E-05	3.15E-05	1.56E-05
88	258613.63	4085088.06	4.73E-05	6.84E-04	5.04E-04	5.04E-04	2.81E-04	7.18E-06	1.04E-04	7.87E-05	7.87E-05	4.33E-05	3.90E-06	5.64E-05	3.50E-05	3.50E-05	1.73E-05
89	258612.91	4085063.3	5.27E-05	7.62E-04	5.61E-04	5.61E-04	3.13E-04	7.99E-06	1.16E-04	8.76E-05	8.76E-05	4.82E-05	4.34E-06	6.28E-05	3.90E-05	3.90E-05	1.93E-05
90	258612.19	4085038.55	5.87E-05	8.48E-04	6.25E-04	6.25E-04	3.49E-04	8.90E-06	1.29E-04	9.76E-05	9.76E-05	5.37E-05	4.83E-06	6.99E-05	4.34E-05	4.34E-05	2.15E-05
91	258611.46	4085013.79	6.52E-05	9.43E-04	6.95E-04	6.95E-04	3.87E-04	9.89E-06	1.44E-04	1.08E-04	1.08E-04	5.96E-05	5.37E-06	7.77E-05	4.83E-05	4.83E-05	2.39E-05
92	258610.74	4084989.04	7.20E-05	1.04E-03	7.67E-04	7.67E-04	4.28E-04	1.09E-05	1.59E-04	1.20E-04	1.20E-04	6.59E-05	5.93E-06	8.58E-05	5.33E-05	5.33E-05	2.64E-05
93	258610.02	4084964.28	7.87E-05	1.14E-03	8.39E-04	8.39E-04	4.68E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.20E-05	6.49E-06	9.38E-05	5.83E-05	5.83E-05	2.89E-05
94	258609.3	4084939.52	8.50E-05	1.23E-03	9.07E-04	9.07E-04	5.05E-04	1.29E-05	1.87E-04	1.42E-04	1.42E-04	7.78E-05	7.01E-06	1.01E-04	6.30E-05	6.30E-05	3.12E-05
95	258608.57	4084914.77	9.05E-05	1.31E-03	9.64E-04	9.64E-04	5.38E-04	1.37E-05	1.99E-04	1.51E-04	1.51E-04	8.28E-05	7.46E-06	1.08E-04	6.70E-05	6.70E-05	3.32E-05
96	258656.32	4085132.65	3.31E-05	4.78E-04	3.52E-04	3.52E-04	1.96E-04	5.02E-06	7.28E-05	5.50E-05	5.50E-05	3.02E-05	2.72E-06	3.94E-05	2.45E-05	2.45E-05	1.21E-05
97	258648.31	4085153.95	3.17E-05	4.58E-04	3.37E-04	3.37E-04	1.88E-04	4.80E-06	6.97E-05	5.27E-05	5.27E-05	2.90E-05	2.61E-06	3.77E-05	2.34E-05	2.34E-05	1.16E-05
98	258640.3	4085175.24	3.02E-05	4.37E-04	3.22E-04	3.22E-04	1.80E-04	4.59E-06	6.66E-05	5.03E-05	5.03E-05	2.77E-05	2.49E-06	3.60E-05	2.24E-05	2.24E-05	1.11E-05
99	258632.29	4085196.54	2.88E-05	4.17E-04	3.07E-04	3.07E-04	1.71E-04	4.37E-06	6.35E-05	4.80E-05	4.80E-05	2.64E-05	2.38E-06	3.44E-05	2.13E-05	2.13E-05	1.06E-05
100	258624.28	4085217.83	2.75E-05	3.97E-04	2.93E-04	2.93E-04	1.63E-04	4.17E-06	6.05E-05	4.57E-05	4.57E-05	2.51E-05	2.26E-06	3.27E-05	2.03E-05	2.03E-05	1.01E-05
101	258616.27	4085239.13	2.61E-05	3.78E-04	2.79E-04	2.79E-04	1.55E-04	3.97E-06	5.76E-05	4.35E-05	4.35E-05	2.39E-05	2.16E-06	3.12E-05	1.94E-05	1.94E-05	9.59E-06
102	258608.27	4085260.43	2.49E-05	3.60E-04	2.66E-04	2.66E-04	1.48E-04	3.78E-06	5.49E-05	4.15E-05	4.15E-05	2.28E-05	2.05E-06	2.97E-05	1.84E-05	1.84E-05	9.13E-06
103	258600.26	4085281.72	2.38E-05	3.44E-04	2.53E-04	2.53E-04	1.41E-04	3.61E-06	5.24E-05	3.95E-05	3.95E-05	2.17E-05	1.96E-06	2.83E-05	1.76E-05	1.76E-05	8.71E-06
104	258592.25	4085303.02	2.27E-05	3.28E-04	2.42E-04	2.42E-04	1.35E-04	3.45E-06	5.00E-05	3.78E-05	3.78E-05	2.08E-05	1.87E-06	2.71E-05	1.68E-05	1.68E-05	8.32E-06
105	258563.59	4085333.86	2.25E-05	3.25E-04	2.40E-04	2.40E-04	1.34E-04	3.41E-06	4.96E-05	3.74E-05	3.74E-05	2.06E-05	1.85E-06	2.68E-05	1.67E-05	1.67E-05	8.25E-06
106	258542.94	4085343.41	2.33E-05	3.37E-04	2.49E-04	2.49E-04	1.39E-04	3.54E-06	5.14E-05	3.88E-05	3.88E-05	2.13E-05	1.92E-06	2.78E-05	1.73E-05	1.73E-05	8.55E-06
107	258522.29	4085352.96	2.42E-05	3.50E-04	2.58E-04	2.58E-04	1.44E-04	3.68E-06	5.34E-05	4.03E-05	4.03E-05	2.22E-05	2.00E-06	2.89E-05	1.79E-05	1.79E-05	8.88E-06
108	258501.64	4085362.51	2.52E-05	3.64E-04	2.68E-04	2.68E-04	1.50E-04	3.82E-06	5.55E-05	4.19E-05	4.19E-05	2.30E-05	2.07E-06	3.00E-05	1.86E-05	1.86E-05	9.23E-06
109	258480.99	4085372.06	2.61E-05	3.78E-04	2.78E-04	2.78E-04	1.55E-04	3.96E-06	5.75E-05	4.34E-05	4.34E-05	2.39E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.57E-06
110	258460.34	4085381.61	2.70E-05	3.90E-04	2.88E-04	2.88E-04	1.60E-04	4.10E-06	5.95E-05	4.49E-05	4.49E-05	2.47E-05	2.22E-06	3.22E-05	2.00E-05	2.00E-05	9.89E-06
111	258439.68	4085391.16	2.79E-05	4.03E-04	2.97E-04	2.97E-04	1.66E-04	4.23E-06	6.14E-05	4.64E-05	4.64E-05	2.55E-05	2.30E-06	3.32E-05	2.06E-05	2.06E-05	1.02E-05
112	258419.03	4085400.72	2.88E-05	4.16E-04	3.06E-04	3.06E-04	1.71E-04	4.36E-06	6.34E-05	4.79E-05	4.79E-05	2.63E-05	2.37E-06	3.43E-05	2.13E-05	2.13E-05	1.05E-05
113	258398.38	4085410.27	2.97E-05	4.29E-04	3.16E-04	3.16E-04	1.76E-04	4.51E-06	6.54E-05	4.94E-05	4.94E-05	2.72E-05	2.45E-06	3.54E-05	2.20E-05	2.20E-05	1.09E-05

114	258664.33	4085111.36	3.44E-05	4.98E-04	3.67E-04	3.67E-04	2.05E-04	5.23E-06	7.59E-05	5.73E-05	5.73E-05	3.15E-05	2.84E-06	4.11E-05	2.55E-05	2.55E-05	1.26E-05
115	258663.61	4085086.6	3.77E-05	5.45E-04	4.02E-04	4.02E-04	2.24E-04	5.72E-06	8.30E-05	6.27E-05	6.27E-05	3.45E-05	3.11E-06	4.49E-05	2.79E-05	2.79E-05	1.38E-05
116	258662.89	4085061.85	4.13E-05	5.97E-04	4.40E-04	4.40E-04	2.45E-04	6.27E-06	9.10E-05	6.87E-05	6.87E-05	3.78E-05	3.40E-06	4.92E-05	3.06E-05	3.06E-05	1.51E-05
117	258662.16	4085037.09	4.53E-05	6.55E-04	4.83E-04	4.83E-04	2.69E-04	6.88E-06	9.98E-05	7.54E-05	7.54E-05	4.15E-05	3.74E-06	5.40E-05	3.36E-05	3.36E-05	1.66E-05
118	258661.44	4085012.33	4.97E-05	7.19E-04	5.30E-04	5.30E-04	2.95E-04	7.54E-06	1.09E-04	8.27E-05	8.27E-05	4.55E-05	4.10E-06	5.92E-05	3.68E-05	3.68E-05	1.82E-05
119	258660.72	4084987.58	5.43E-05	7.86E-04	5.79E-04	5.79E-04	3.23E-04	8.25E-06	1.20E-04	9.04E-05	9.04E-05	4.97E-05	4.48E-06	6.48E-05	4.02E-05	4.02E-05	1.99E-05
120	258660	4084962.82	5.91E-05	8.55E-04	6.30E-04	6.30E-04	3.51E-04	8.97E-06	1.30E-04	9.84E-05	9.84E-05	5.41E-05	4.87E-06	7.05E-05	4.38E-05	4.38E-05	2.17E-05
121	258659.27	4084938.06	6.38E-05	9.23E-04	6.81E-04	6.81E-04	3.79E-04	9.69E-06	1.41E-04	1.06E-04	1.06E-04	5.84E-05	5.26E-06	7.61E-05	4.73E-05	4.73E-05	2.34E-05
122	258658.55	4084913.31	6.82E-05	9.87E-04	7.27E-04	7.27E-04	4.06E-04	1.04E-05	1.50E-04	1.14E-04	1.14E-04	6.24E-05	5.62E-06	8.14E-05	5.05E-05	5.05E-05	2.50E-05
123	258756.07	4085130.28	2.34E-05	3.38E-04	2.49E-04	2.49E-04	1.39E-04	3.55E-06	5.15E-05	3.89E-05	3.89E-05	2.14E-05	1.93E-06	2.78E-05	1.73E-05	1.73E-05	8.56E-06
124	258747.86	4085152.12	2.26E-05	3.27E-04	2.41E-04	2.41E-04	1.34E-04	3.43E-06	4.98E-05	3.76E-05	3.76E-05	2.07E-05	1.86E-06	2.69E-05	1.67E-05	1.67E-05	8.28E-06
125	258739.64	4085173.97	2.18E-05	3.16E-04	2.33E-04	2.33E-04	1.30E-04	3.31E-06	4.81E-05	3.63E-05	3.63E-05	2.00E-05	1.80E-06	2.60E-05	1.62E-05	1.62E-05	8.00E-06
126	258731.43	4085195.81	2.10E-05	3.04E-04	2.24E-04	2.24E-04	1.25E-04	3.19E-06	4.63E-05	3.50E-05	3.50E-05	1.92E-05	1.73E-06	2.51E-05	1.56E-05	1.56E-05	7.71E-06
127	258723.22	4085217.65	2.02E-05	2.93E-04	2.16E-04	2.16E-04	1.20E-04	3.07E-06	4.46E-05	3.37E-05	3.37E-05	1.85E-05	1.67E-06	2.41E-05	1.50E-05	1.50E-05	7.42E-06
128	258715	4085239.49	1.95E-05	2.81E-04	2.07E-04	2.07E-04	1.16E-04	2.95E-06	4.29E-05	3.24E-05	3.24E-05	1.78E-05	1.60E-06	2.32E-05	1.44E-05	1.44E-05	7.13E-06
129	258706.79	4085261.33	1.87E-05	2.70E-04	1.99E-04	1.99E-04	1.11E-04	2.84E-06	4.12E-05	3.11E-05	3.11E-05	1.71E-05	1.54E-06	2.23E-05	1.38E-05	1.38E-05	6.85E-06
130	258698.57	4085283.17	1.80E-05	2.60E-04	1.91E-04	1.91E-04	1.07E-04	2.73E-06	3.96E-05	2.99E-05	2.99E-05	1.64E-05	1.48E-06	2.14E-05	1.33E-05	1.33E-05	6.58E-06
131	258690.36	4085305.01	1.72E-05	2.49E-04	1.84E-04	1.84E-04	1.02E-04	2.62E-06	3.80E-05	2.87E-05	2.87E-05	1.58E-05	1.42E-06	2.06E-05	1.28E-05	1.28E-05	6.32E-06
132	258682.14	4085326.85	1.65E-05	2.39E-04	1.76E-04	1.76E-04	9.83E-05	2.51E-06	3.64E-05	2.75E-05	2.75E-05	1.51E-05	1.36E-06	1.97E-05	1.22E-05	1.22E-05	6.06E-06
133	258673.93	4085348.7	1.60E-05	2.31E-04	1.70E-04	1.70E-04	9.48E-05	2.42E-06	3.51E-05	2.66E-05	2.66E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.85E-06
134	258665.71	4085370.54	1.54E-05	2.22E-04	1.64E-04	1.64E-04	9.13E-05	2.33E-06	3.38E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.83E-05	1.14E-05	1.14E-05	5.63E-06
135	258636.32	4085402.17	1.53E-05	2.21E-04	1.63E-04	1.63E-04	9.09E-05	2.32E-06	3.37E-05	2.54E-05	2.54E-05	1.40E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.60E-06
136	258615.14	4085411.97	1.57E-05	2.27E-04	1.68E-04	1.68E-04	9.35E-05	2.39E-06	3.47E-05	2.62E-05	2.62E-05	1.44E-05	1.30E-06	1.88E-05	1.16E-05	1.16E-05	5.77E-06
137	258593.96	4085421.76	1.62E-05	2.35E-04	1.73E-04	1.73E-04	9.64E-05	2.46E-06	3.57E-05	2.70E-05	2.70E-05	1.48E-05	1.34E-06	1.93E-05	1.20E-05	1.20E-05	5.95E-06
138	258572.78	4085431.56	1.68E-05	2.42E-04	1.79E-04	1.79E-04	9.96E-05	2.54E-06	3.69E-05	2.79E-05	2.79E-05	1.53E-05	1.38E-06	2.00E-05	1.24E-05	1.24E-05	6.14E-06
139	258551.6	4085441.36	1.73E-05	2.51E-04	1.85E-04	1.85E-04	1.03E-04	2.63E-06	3.82E-05	2.88E-05	2.88E-05	1.59E-05	1.43E-06	2.07E-05	1.28E-05	1.28E-05	6.35E-06
140	258530.42	4085451.15	1.79E-05	2.59E-04	1.91E-04	1.91E-04	1.06E-04	2.72E-06	3.94E-05	2.98E-05	2.98E-05	1.64E-05	1.48E-06	2.13E-05	1.33E-05	1.33E-05	6.56E-06
141	258509.24	4085460.95	1.84E-05	2.67E-04	1.96E-04	1.96E-04	1.10E-04	2.80E-06	4.06E-05	3.07E-05	3.07E-05	1.69E-05	1.52E-06	2.20E-05	1.36E-05	1.36E-05	6.75E-06
142	258488.06	4085470.74	1.89E-05	2.74E-04	2.02E-04	2.02E-04	1.12E-04	2.87E-06	4.17E-05	3.15E-05	3.15E-05	1.73E-05	1.56E-06	2.26E-05	1.40E-05	1.40E-05	6.94E-06
143	258466.88	4085480.54	1.94E-05	2.81E-04	2.07E-04	2.07E-04	1.15E-04	2.95E-06	4.28E-05	3.23E-05	3.23E-05	1.78E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.11E-06
144	258445.7	4085490.33	1.99E-05	2.88E-04	2.12E-04	2.12E-04	1.18E-04	3.02E-06	4.39E-05	3.31E-05	3.31E-05	1.82E-05	1.64E-06	2.37E-05	1.47E-05	1.47E-05	7.30E-06
145	258424.52	4085500.13	2.04E-05	2.96E-04	2.18E-04	2.18E-04	1.21E-04	3.10E-06	4.50E-05	3.40E-05	3.40E-05	1.87E-05	1.68E-06	2.44E-05	1.51E-05	1.51E-05	7.49E-06
146	258403.34	4085509.92	2.10E-05	3.04E-04	2.24E-04	2.24E-04	1.25E-04	3.19E-06	4.63E-05	3.49E-05	3.49E-05	1.92E-05	1.73E-06	2.50E-05	1.55E-05	1.55E-05	7.69E-06
147	258764.29	4085108.44	2.41E-05	3.49E-04	2.57E-04	2.57E-04	1.43E-04	3.66E-06	5.31E-05	4.01E-05	4.01E-05	2.21E-05	1.99E-06	2.87E-05	1.79E-05	1.79E-05	8.84E-06
148	258763.57	4085083.68	2.58E-05	3.73E-04	2.75E-04	2.75E-04	1.53E-04	3.92E-06	5.69E-05	4.30E-05	4.30E-05	2.36E-05	2.13E-06	3.08E-05	1.91E-05	1.91E-05	9.46E-06
149	258762.84	4085058.93	2.77E-05	4.01E-04	2.95E-04	2.95E-04	1.65E-04	4.21E-06	6.11E-05	4.61E-05	4.61E-05	2.54E-05	2.28E-06	3.30E-05	2.05E-05	2.05E-05	1.02E-05
150	258762.12	4085034.17	2.98E-05	4.31E-04	3.17E-04	3.17E-04	1.77E-04	4.52E-06	6.56E-05	4.96E-05	4.96E-05	2.73E-05	2.45E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
151	258761.4	4085009.42	3.20E-05	4.63E-04	3.41E-04	3.41E-04	1.90E-04	4.86E-06	7.06E-05	5.33E-05	5.33E-05	2.93E-05	2.64E-06	3.82E-05	2.37E-05	2.37E-05	1.17E-05
152	258760.68	4084984.66	3.44E-05	4.98E-04	3.67E-04	3.67E-04	2.05E-04	5.23E-06	7.59E-05	5.73E-05	5.73E-05	3.15E-05	2.84E-06	4.11E-05	2.55E-05	2.55E-05	1.26E-05
153	258759.95	4084959.9	3.70E-05	5.35E-04	3.95E-04	3.95E-04	2.20E-04	5.62E-06	8.15E-05	6.16E-05	6.16E-05	3.39E-05	3.05E-06	4.41E-05	2.74E-05	2.74E-05	1.36E-05
154	258759.23	4084935.15	3.97E-05	5.74E-04	4.23E-04	4.23E-04	2.36E-04	6.02E-06	8.74E-05	6.61E-05	6.61E-05	3.63E-05	3.27E-06	4.73E-05	2.94E-05	2.94E-05	1.45E-05
155	258758.51	4084910.39	4.24E-05	6.13E-04	4.52E-04	4.52E-04	2.52E-04	6.43E-06	9.34E-05	7.05E-05	7.05E-05	3.88E-05	3.49E-06	5.05E-05	3.14E-05	3.14E-05	1.55E-05
156	258855.9	4085127.71	1.76E-05	2.54E-04	1.87E-04	1.87E-04	1.04E-04	2.67E-06	3.87E-05	2.93E-05	2.93E-05	1.61E-05	1.45E-06	2.10E-05	1.30E-05	1.30E-05	6.44E-06
157	258847.56	4085149.89	1.71E-05	2.48E-04	1.83E-04	1.83E-04	1.02E-04	2.60E-06	3.77E-05	2.85E-05	2.85E-05	1.57E-05	1.41E-06	2.04E-05	1.27E-05	1.27E-05	6.28E-06
158	258839.22	4085172.07	1.66E-05	2.41E-04	1.77E-04	1.77E-04	9.89E-05	2.53E-06	3.67E-05	2.77E-05	2.77E-05	1.52E-05	1.37E-06	1.98E-05	1.23E-05	1.23E-05	6.10E-06
159	258830.87	4085194.25	1.61E-05	2.33E-04	1.72E-04	1.72E-04	9.59E-05	2.45E-06	3.56E-05	2.69E-05	2.69E-05	1.48E-05	1.33E-06	1.92E-05	1.20E-05	1.20E-05	5.92E-06
160	258822.53	4085216.44	1.56E-05	2.26E-04	1.67E-04	1.67E-04	9.29E-05	2.37E-06	3.45E-05	2.60E-05	2.60E-05	1.43E-05	1.29E-06	1.86E-05	1.16E-05	1.16E-05	5.73E-06
161	258814.19	4085238.62	1.51E-05	2.19E-04	1.61E-04	1.61E-04	9.00E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.80E-05	1.12E-05	1.12E-05	5.55E-06
162	258805.84	4085260.8	1.47E-05	2.12E-04	1.56E-04	1.56E-04	8.71E-05	2.22E-06	3.23E-05	2.44E-05	2.44E-05	1.34E-05	1.21E-06	1.75E-05	1.09E-05	1.09E-05	5.37E-06
163	258797.5	4085282.98	1.42E-05	2.05E-04	1.51E-04	1.51E-04	8.43E-05	2.15E-06	3.12E-05	2.36E-05	2.36E-05	1.30E-05	1.17E-06	1.69E-05	1.05E-05	1.05E-05	5.20E-06
164	258789.16	4085305.17	1.37E-05	1.98E-04	1.46E-04	1.46E-04	8.14E-05	2.08E-06	3.02E-05	2.28E-05	2.28E-05	1.25E-05	1.13E-06	1.63E-05	1.01E-05	1.01E-05	5.02E-06
165	258780.81	4085327.35	1.32E-05	1.91E-04	1.40E-04	1.40E-04	7.83E-05	2.00E-06	2.90E-05	2.19E-05	2.19E-05	1.21E-05	1.09E-06	1.57E-05	9.76E-06	9.76E-06	4.83E-06
166	258772.47	4085349.53	1.27E-05	1.84E-04	1.36E-04	1.36E-04	7.57E-05	1.93E-06	2.81E-05	2.12E-05	2.12E-05	1.17E-05	1.05E-06	1.52E-05	9.43E-06	9.43E-06	4.67E-06
167	258764.13	4085371.72	1.23E-05	1.78E-04	1.31E-04	1.31E-04	7.33E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.13E-06	9.13E-06	4.52E-06
168	258755.78	4085393.9	1.19E-05	1.73E-04	1.27E-04	1.27E-04	7.09E-05	1.81E-06	2.63E-05	1.99E-05	1.99E-05	1.09E-05	9.84E-07	1.42E-05	8.84E-06	8.84E-06	4.38E-06
169	258747.44	4085416.08	1.16E-05	1.67E-04	1.23E-04	1.23E-04	6.88E-05	1.76E-06	2.55E-05	1.93E-05	1.93E-05	1.06E-05	9.54E-07	1.38E-05	8.57E-06	8.57E-06	4.24E-06
170	258739.1	4085438.26	1.12E-05	1.62E-04	1.20E-04	1.20E-04	6.67E-05	1.70E-06	2.47E-05	1.87E-05	1.87E-05	1.03E-05	9.26E-07	1.34E-05	8.32E-06	8.32E-06	4.12E-06
171	258709.24	4085470.39	1.12E-05	1.61E-04	1.19E-04	1.19E-04	6.63E-05	1.69E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.19E-07	1.33E-05	8.26E-06	8.26E-06	4.09E-06
172	258687.73	4085480.34	1.14E-05	1.65E-04	1.22E-04	1.22E-04	6.78E-05	1.73E-06	2.51E-05	1.90E-05	1.90E-05	1.04E-05	9.40E-07	1.36E-05	8.45E-06	8.45E-06	4.18E-06
173	258666.22	4085490.29	1.17E-05	1.69E-04	1.25E-04	1.25E-04	6.95E-05	1.77E-06	2.58E-05	1.95E-05	1.95E-05	1.07E-05	9.64E-07	1.39E-05	8.66E-06	8.66E-06	4.29E-06
174	258644.71	4085500.24	1.20E-05	1.74E-04	1.28E-04	1.28E-04	7.14E-05	1.82E-06	2.65E-05	2.00E-05	2.00E-05	1.10E-05	9.90E-07	1.43E-05	8.89E-06	8.89E-06	4.40E-06
175	258623.2	4085510.19	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.15E-06	9.15E-06	4.53E-06
176	258601.69	4085520.14	1.27E-05	1.84E-04	1.36E-04	1.36E-04	7.57E-05	1.93E-06	2.81E-05	2.12E-05	2.12E-05	1.17E-05	1.05E-06	1.52E-05	9.44E-06	9.44E-06	4.67E-06
177	258580.18	4085530.08	1.31E-05	1.90E-04	1.40E-04	1.40E-04	7.81E-05	1.99E-06	2.89E-05	2.19E-05	2.19E-05	1.20E-05	1.08E-06	1.57E-05	9.73E-06	9.73E-06	4.82E-06
178	258558.67	4085540.03	1.35E-05	1.96E-04	1.44E-04	1.44E-04	8.05E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.12E-06	1.61E-05	1.00E-05	1.00E-05	4.96E-06
179	258537.16	4085549.98	1.39E-05	2.01E-04	1.48E-04	1.48E-04	8.26E-05	2.11E-06	3.06E-05	2.31E-05	2.31E-05	1.27E-05	1.15E-06	1.66E-05	1.03E-05	1.03E-05	5.10E-06
180	258515.65	4085559.93	1.42E-05	2.06E-04	1.51E-04	1.51E-04	8.45E-05	2.16E-06	3.13E-05	2.37E-05	2.37E-05	1.30E-05	1.17E-06	1.69E-05	1.05E-05	1.05E-05	5.21E-06
181	258494.14	4085569.88	1.45E-05	2.10E-04	1.55E-04	1.55E-04	8.62E-05	2.20E-06	3.20E-05	2.41E-05	2.41E-05	1.33E-05	1.20E-06	1.73E-05	1.07E-05	1.07E-05	5.32E-06
182	258472.63	4085579.83	1.48E-05	2.14E-04	1.58E-04	1.58E-04	8.81E-05	2.25E-06	3.26E-05	2.47E-05	2.47E-05	1.36E-05	1.22E-06	1.77E-05	1.10E-05	1.10E-05	5.43E-06
183	258451.12	4085589.78	1.52E-05	2.19E-04	1.62E-04	1.62E-04	9.01E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.81E-05	1.12E-05	1.12E-05	5.55E-06
184	258429.6	4085599.72	1.55E-05	2.24E-04	1.65E-04	1.65E-04	9.22E-05	2.35E-06	3.42E-05	2.58E-05	2.58E-05	1.42E-05	1.28E-06	1.85E-05	1.15E-05	1.15E-05	5.69E-06
185	258408.09	4085609.67	1.59E-05	2.30E-04	1.69E-04	1.69E-04	9.45E-05	2.41E-06	3.50E-05	2.65E-05	2.65E-05	1.45E-05	1.31E-06	1.89E-05	1.18E-05	1.18E-05	5.83E-06
186	258864.25	4085105.52	1.80E-05	2.61E-04	1.92E-04	1.92E-04	1.07E-04	2.73E-06	3.97E-05	3.00E-05	3.00E-05	1.65E-05	1.49E-06	2.15E-05	1.33E-05	1.33E-05	6.60E-06
187	258863.52	4085080.77	1.90E-05	2.75E-04	2.03E-04	2.03E-04	1.13E-04	2.89E-06	4.19E-05	3.17E-05	3.17E-05	1.74E-05	1.57E-06	2.27E-05	1.41E-05	1.41E-05	6.98E-06
188	258862.8	4085056.01	2.01E-05	2.91E-04	2.15E-04	2.15E-04	1.20E-04	3.06E-06	4.44E-05	3.35E-05	3.35E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.38E-06
189	258862.08	4085031.26	2.13E-05	3.09E-04	2.28E-04	2.28E-04	1.27E-04	3.24E-06	4.70E-05	3.55E-05	3.55E-05	1.95E-05	1.76E-06	2.55E-05	1.58E-05	1.58E-05	7.83E-06
190	258861.36	4085006.5	2.27E-05	3.28E-04	2.41E-04	2.41E-04	1.35E-04	3.44E-06	4.99E-05	3.77E-05	3.77E-05	2.07E-05	1.87E-06	2.70E-05	1.68E-05	1.68E-05	8.30E-06
191	258860.63	4084981.74	2.41E-05	3.48E-04	2.57E-04	2.57E-04	1.43E-04	3.65E-06	5.30E-05	4.01E-05	4.01E-05	2.20E-05	1.98E-06	2.87E-05	1.78E-05	1.78E-05	8.82E-06
192	258859.91	4084956.99	2.56E-05	3.70E-04	2.73E-04	2.73E-04	1.52E-04	3.88E-06	5.64E-05	4.26E-05	4.26E-05	2.34E-05	2.11E-06	3.05E-05	1.89E-05	1.89E-05	9.38E-06
193	258859.19	4084932.23	2.72E-05	3.93E-04	2.90E-04	2.90E-04	1.62E-04	4.13E-06	5.99E-05	4.53E-05	4.53E-05	2.49E-05	2.24E-06	3.24E-05	2.01E-05	2.01E-05	9.97E-06
194	258858.47	4084907.47	2.89E-05	4.18E-04	3.08E-04	3.08E-04	1.72E-04	4.38E-06	6.36E-05	4.81E-05	4.81E-05	2.64E-05	2.38E-06	3.44E-05	2.14E-05	2.14E-05	1.06E-05
195	258955.77	4085125.02	1.39E-05	2.00E-04	1.48E-04	1.48E-04	8.23E-05	2.10E-06	3.05E-05	2.31E-05	2.31E-05	1.27E-05	1.14E-06	1.65E-05	1.03E-05	1.03E-05	5.08E-06
196	258947.34	4085147.44	1.36E-05	1.96E-04	1.45E-04	1.45E-04	8.06E-05	2.06E-06	2.99E-05	2.26E-05	2.26E-05	1.24E-05	1.12E-06	1.62E-05	1.00E-05	1.00E-05	4.97E-06
197	258938.91	4085169.86	1.32E-05	1.92E-04	1.41E-04	1.41E-04	7.87E-05	2.01E-06	2.92E-05	2.20E-05	2.20E-05	1.21E-05	1.09E-06	1.58E-05	9.81E-06	9.81E-06	4.85E-06
198	258930.48	4085192.27	1.29E-05	1.87E-04	1.38E-04	1.38E-04	7.67E-05	1.96E-06	2.84E-05	2.15E-05	2.15E-05	1.18E-05	1.06E-06	1.54E-05	9.56E-06	9.56E-06	4.73E-06
199	258922.05	4085214.69	1.26E-05	1.82E-04	1.34E-04	1.34E-04	7.46E-05	1.91E-06	2.77E-05	2.09E-05	2.09E-05	1.15E-05	1.04E-06	1.50E-05	9.30E-06	9.30E-06	4.60E-06
200	258913.62	4085237.1	1.22E-05	1.77E-04	1.30E-04	1.30E-04	7.26E-05	1.85E-06	2.69E-05	2.03E-05	2.03E-05	1.12E-05	1.01E-06	1.46E-05	9.04E-06	9.04E-06	4.47E-06
201	258905.19	4085259.52	1.19E-05	1.72E-04	1.26E-04	1.26E-04	7.05E-05	1.80E-06	2.61E-05	1.97E-05	1.97E-05	1.09E-05	9.78E-07	1.41E-05	8.79E-06	8.79E-06	4.35E-06
202	258896.76	4085281.94	1.15E-05	1.66E-04	1.23E-04	1.23E-04	6.83E-05	1.75E-06	2.53E-05	1.91E-05	1.91E-05	1.05E-05	9.48E-07	1.37E-05	8.52E-06	8.52E-06	4.22E-06
203	258888.32	4085304.35	1.11E-05	1.61E-04	1.19E-04	1.19E-04	6.62E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.18E-07	1.33E-05	8.25E-06	8.25E-06	4.08E-06
204	258879.89	4085326.77	1.08E-05	1.57E-04	1.16E-04	1.16E-04	6.44E-05	1.65E-06	2.39E-05	1.80E-05	1.80E-05	9.92E-06	8.94E-07	1.29E-05	8.03E-06	8.03E-06	3.97E-06
205	258871.46	4085349.18	1.05E-05	1.53E-04	1.12E-04	1.12E-04	6.27E-05	1.60E-06	2.32E-05	1.76E-05	1.76E-05	9.65E-06	8.69E-07	1.26E-05	7.81E-06	7.81E-06	3.87E-06
206	258863.03	4085371.6	1.03E-05	1.48E-04	1.09E-04	1.09E-04	6.10E-05	1.56E-06	2.26E-05	1.71E-05	1.71E-05	9.38E-06	8.45E-07	1.22E-05	7.60E-06	7.60E-06	3.76E-06
207	258854.6	4085394.02	9.97E-06	1.44E-04	1.06E-04	1.06E-04	5.93E-05	1.51E-06	2.20E-05	1.66E-05	1.66E-05	9.12E-06	8.22E-07	1.19E-05	7.38E-06	7.38E-06	3.65E-06
208	258846.17	4085416.43	9.69E-06	1.40E-04	1.03E-04	1.03E-04	5.76E-05	1.47E-06	2.14E-05	1.61E-05	1.61E-05	8.87E-06	7.99E-07	1.16E-05	7.18E-06	7.18E-06	3.55E-06
209	258837.74	4085438.85	9.43E-06	1.36E-04	1.00E-04	1.00E-04	5.60E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.63E-06	7.77E-07	1.12E-05	6.98E-06	6.98E-06	3.46E-06
210	258829.31	4085461.26	9.17E-06	1.33E-04	9.78E-05	9.78E-05	5.45E-05	1.39E-06	2.02E-05	1.53E-05	1.53E-05	8.39E-06	7.56E-07	1.09E-05	6.79E-06	6.79E-06	3.36E-06
211	258820.88	4085483.68	8.93E-06	1.29E-04	9.52E-05	9.52E-05	5.31E-05	1.36E-06	1.97E-05	1.49E-05	1.49E-05	8.18E-06	7.36E-07	1.07E-05	6.62E-06	6.62E-06	3.27E-06
212	258812.44	4085506.1	8.71E-06	1.26E-04	9.29E-05	9.29E-05	5.18E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.97E-06	7.18E-07	1.04E-05	6.45E-06	6.45E-06	3.19E-06
213	258782.28	4085538.57	8.66E-06	1.25E-04	9.24E-05	9.24E-05	5.15E-05	1.31E-06	1.91E-05	1.44E-05	1.44E-05	7.93E-06	7.14E-07	1.03E-05	6.42E-06	6.42E-06	3.18E-06
214	258760.54	4085548.62	8.83E-06	1.28E-04	9.41E-05	9.41E-05	5.25E-05	1.34E-06	1.95E-05	1.47E-05	1.47E-05	8.08E-06	7.28E-07	1.05E-05	6.54E-06	6.54E-06	3.24E-06
215	258738.8	4085558.67	9.01E-06	1.30E-04	9.60E-05	9.60E-05	5.35E-05	1.37E-06	1.98E-05	1.50E-05	1.50E-05	8.24E-06	7.43E-07	1.07E-05	6.67E-06	6.67E-06	3.30E-06
216	258717.06	4085568.73	9.20E-06	1.33E-04	9.81E-05	9.81E-05	5.47E-05	1.40E-06	2.03E-05	1.53E-05	1.53E-05	8.42E-06	7.59E-07	1.10E-05	6.82E-06	6.82E-06	3.37E-06
217	258695.33	4085578.78	9.42E-06	1.36E-04	1.00E-04	1.00E-04	5.60E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.62E-06	7.76E-07	1.12E-05	6.98E-06	6.98E-06	3.45E-06
218	258673.59	4085588.83	9.66E-06	1.40E-04	1.03E-04	1.03E-04	5.74E-05	1.47E-06	2.13E-05	1.61E-05	1.61E-05	8.84E-06	7.97E-07	1.15E-05	7.16E-06	7.16E-06	3.54E-06
219	258651.85	4085598.88	9.93E-06	1.44E-04	1.06E-04	1.06E-04	5.90E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.08E-06	8.18E-07	1.18E-05	7.35E-06	7.35E-06	3.64E-06
220	258630.12	4085608.94	1.02E-05	1.48E-04	1.09E-04	1.09E-04	6.06E-05	1.55E-06	2.25E-05	1.70E-05	1.70E-05	9.33E-06	8.41E-07	1.22E-05	7.55E-06	7.55E-06	3.74E-06
221	258608.38	4085618.99	1.05E-05	1.51E-04	1.12E-04	1.12E-04	6.22E-05	1.59E-06	2.31E-05	1.74E-05	1.74E-05	9.58E-06	8.63E-07	1.25E-05	7.75E-06	7.75E-06	3.84E-06
222	258586.64	4085629.04	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.37E-05	1.63E-06	2.36E-05	1.78E-05	1.78E-05	9.80E-06	8.83E-07	1.28E-05	7.93E-06	7.93E-06	3.93E-06
223	258564.91	4085639.1	1.10E-05	1.59E-04	1.17E-04	1.17E-04	6.51E-05	1.66E-06	2.42E-05	1.82E-05	1.82E-05	1.00E-05	9.04E-07	1.31E-05	8.12E-06	8.12E-06	4.02E-06
224	258543.17	4085649.15	1.12E-05	1.62E-04	1.19E-04	1.19E-04	6.64E-05	1.70E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.21E-07	1.33E-05	8.27E-06	8.27E-06	4.09E-06
225	258521.43	4085659.2	1.13E-05	1.64E-04	1.21E-04	1.21E-04	6.74E-05	1.72E-06	2.50E-05	1.89E-05	1.89E-05	1.04E-05	9.35E-07	1.35E-05	8.40E-06	8.40E-06	4.16E-06
226	258499.69	4085669.26	1.16E-05	1.68E-04	1.24E-04	1.24E-04	6.89E-05	1.76E-06	2.55E-05	1.93E-05	1.93E-05	1.06E-05	9.55E-07	1.38E-05	8.58E-06	8.58E-06	4.25E-06
227	258477.96	4085679.31	1.18E-05	1.71E-04	1.26E-04	1.26E-04	7.02E-05	1.79E-06	2.60E-05	1.97E-05	1.97E-05	1.08E-05	9.74E-07	1.41E-05	8.75E-06	8.75E-06	4.33E-06
228	258456.22	4085689.36	1.20E-05	1.74E-04	1.28E-04	1.28E-04	7.15E-05	1.83E-06	2.65E-05	2.00E-05	2.00E-05	1.10E-05	9.92E-07	1.43E-05	8.91E-06	8.91E-06	4.41E-06
229	258434.48	4085699.42	1.23E-05	1.78E-04	1.31E-04	1.31E-04	7.31E-05	1.87E-06	2.71E-05	2.05E-05	2.05E-05	1.13E-05	1.01E-06	1.47E-05	9.11E-06	9.11E-06	4.51E-06
230	258412.75	4085709.47	1.26E-05	1.82E-04	1.34E-04	1.34E-04	7.48E-05	1.91E-06	2.77E-05	2.10E-05	2.10E-05	1.15E-05	1.04E-06	1.50E-05	9.32E-06	9.32E-06	4.61E-06

231	258964.2	4085102.61	1.41E-05	2.04E-04	1.51E-04	1.51E-04	8.39E-05	2.14E-06	3.11E-05	2.35E-05	2.35E-05	1.29E-05	1.16E-06	1.68E-05	1.05E-05	1.05E-05	5.18E-06
232	258963.48	4085077.85	1.48E-05	2.14E-04	1.57E-04	1.57E-04	8.78E-05	2.24E-06	3.25E-05	2.46E-05	2.46E-05	1.35E-05	1.22E-06	1.76E-05	1.09E-05	1.09E-05	5.41E-06
233	258962.76	4085053.09	1.55E-05	2.24E-04	1.65E-04	1.65E-04	9.19E-05	2.35E-06	3.41E-05	2.57E-05	2.57E-05	1.42E-05	1.27E-06	1.84E-05	1.15E-05	1.15E-05	5.67E-06
234	258962.04	4085028.34	1.62E-05	2.35E-04	1.73E-04	1.73E-04	9.65E-05	2.46E-06	3.58E-05	2.70E-05	2.70E-05	1.49E-05	1.34E-06	1.94E-05	1.20E-05	1.20E-05	5.95E-06
235	258961.31	4085003.58	1.71E-05	2.47E-04	1.82E-04	1.82E-04	1.01E-04	2.59E-06	3.76E-05	2.84E-05	2.84E-05	1.56E-05	1.41E-06	2.03E-05	1.26E-05	1.26E-05	6.26E-06
236	258960.59	4084978.83	1.80E-05	2.60E-04	1.92E-04	1.92E-04	1.07E-04	2.73E-06	3.96E-05	2.99E-05	2.99E-05	1.64E-05	1.48E-06	2.14E-05	1.33E-05	1.33E-05	6.59E-06
237	258959.87	4084954.07	1.89E-05	2.74E-04	2.02E-04	2.02E-04	1.13E-04	2.88E-06	4.17E-05	3.15E-05	3.15E-05	1.73E-05	1.56E-06	2.26E-05	1.40E-05	1.40E-05	6.95E-06
238	258959.15	4084929.31	2.00E-05	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.03E-06	4.41E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.38E-05	1.48E-05	1.48E-05	7.33E-06
239	258958.42	4084904.56	2.11E-05	3.05E-04	2.25E-04	2.25E-04	1.25E-04	3.20E-06	4.65E-05	3.51E-05	3.51E-05	1.93E-05	1.74E-06	2.51E-05	1.56E-05	1.56E-05	7.73E-06
240	259055.67	4085122.28	1.13E-05	1.63E-04	1.20E-04	1.20E-04	6.71E-05	1.71E-06	2.49E-05	1.88E-05	1.88E-05	1.03E-05	9.31E-07	1.35E-05	8.36E-06	8.36E-06	4.14E-06
241	259047.17	4085144.86	1.11E-05	1.61E-04	1.18E-04	1.18E-04	6.60E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.15E-07	1.32E-05	8.22E-06	8.22E-06	4.07E-06
242	259038.68	4085167.45	1.09E-05	1.58E-04	1.16E-04	1.16E-04	6.47E-05	1.65E-06	2.40E-05	1.81E-05	1.81E-05	9.97E-06	8.98E-07	1.30E-05	8.07E-06	8.07E-06	3.99E-06
243	259030.18	4085190.03	1.06E-05	1.54E-04	1.13E-04	1.13E-04	6.32E-05	1.61E-06	2.34E-05	1.77E-05	1.77E-05	9.73E-06	8.77E-07	1.27E-05	7.88E-06	7.88E-06	3.90E-06
244	259021.69	4085212.62	1.04E-05	1.50E-04	1.10E-04	1.10E-04	6.15E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.48E-06	8.53E-07	1.23E-05	7.67E-06	7.67E-06	3.80E-06
245	259013.19	4085235.21	1.01E-05	1.46E-04	1.08E-04	1.08E-04	5.99E-05	1.53E-06	2.22E-05	1.68E-05	1.68E-05	9.23E-06	8.31E-07	1.20E-05	7.47E-06	7.47E-06	3.70E-06
246	259004.7	4085257.79	9.82E-06	1.42E-04	1.05E-04	1.05E-04	5.84E-05	1.49E-06	2.16E-05	1.63E-05	1.63E-05	8.99E-06	8.10E-07	1.17E-05	7.27E-06	7.27E-06	3.60E-06
247	258996.2	4085280.38	9.57E-06	1.38E-04	1.02E-04	1.02E-04	5.69E-05	1.45E-06	2.11E-05	1.59E-05	1.59E-05	8.76E-06	7.89E-07	1.14E-05	7.09E-06	7.09E-06	3.51E-06
248	258987.71	4085302.96	9.33E-06	1.35E-04	9.95E-05	9.95E-05	5.55E-05	1.42E-06	2.06E-05	1.55E-05	1.55E-05	8.54E-06	7.69E-07	1.11E-05	6.91E-06	6.91E-06	3.42E-06
249	258979.21	4085325.55	9.11E-06	1.32E-04	9.71E-05	9.71E-05	5.41E-05	1.38E-06	2.01E-05	1.52E-05	1.52E-05	8.33E-06	7.51E-07	1.09E-05	6.74E-06	6.74E-06	3.34E-06
250	258970.72	4085348.13	8.90E-06	1.29E-04	9.48E-05	9.48E-05	5.29E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.14E-06	7.33E-07	1.06E-05	6.59E-06	6.59E-06	3.26E-06
251	258962.22	4085370.72	8.69E-06	1.26E-04	9.27E-05	9.27E-05	5.17E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.95E-06	7.16E-07	1.04E-05	6.44E-06	6.44E-06	3.19E-06
252	258953.73	4085393.31	8.49E-06	1.23E-04	9.05E-05	9.05E-05	5.05E-05	1.29E-06	1.87E-05	1.41E-05	1.41E-05	7.77E-06	7.00E-07	1.01E-05	6.29E-06	6.29E-06	3.11E-06
253	258945.23	4085415.89	8.29E-06	1.20E-04	8.84E-05	8.84E-05	4.93E-05	1.26E-06	1.83E-05	1.38E-05	1.38E-05	7.59E-06	6.84E-07	9.89E-06	6.14E-06	6.14E-06	3.04E-06
254	258936.74	4085438.48	8.10E-06	1.17E-04	8.63E-05	8.63E-05	4.81E-05	1.23E-06	1.78E-05	1.35E-05	1.35E-05	7.41E-06	6.68E-07	9.65E-06	6.00E-06	6.00E-06	2.97E-06
255	258928.24	4085461.06	7.90E-06	1.14E-04	8.43E-05	8.43E-05	4.70E-05	1.20E-06	1.74E-05	1.32E-05	1.32E-05	7.23E-06	6.51E-07	9.42E-06	5.85E-06	5.85E-06	2.90E-06
256	258919.75	4085483.65	7.71E-06	1.12E-04	8.22E-05	8.22E-05	4.58E-05	1.17E-06	1.70E-05	1.28E-05	1.28E-05	7.06E-06	6.36E-07	9.20E-06	5.71E-06	5.71E-06	2.83E-06
257	258911.25	4085506.24	7.53E-06	1.09E-04	8.03E-05	8.03E-05	4.47E-05	1.14E-06	1.66E-05	1.25E-05	1.25E-05	6.89E-06	6.21E-07	8.98E-06	5.58E-06	5.58E-06	2.76E-06
258	258902.76	4085528.82	7.35E-06	1.06E-04	7.84E-05	7.84E-05	4.37E-05	1.12E-06	1.62E-05	1.22E-05	1.22E-05	6.73E-06	6.06E-07	8.77E-06	5.45E-06	5.45E-06	2.70E-06
259	258894.26	4085551.41	7.19E-06	1.04E-04	7.66E-05	7.66E-05	4.27E-05	1.09E-06	1.58E-05	1.20E-05	1.20E-05	6.58E-06	5.93E-07	8.57E-06	5.32E-06	5.32E-06	2.63E-06
260	258885.77	4085573.99	7.04E-06	1.02E-04	7.50E-05	7.50E-05	4.18E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.44E-06	5.80E-07	8.39E-06	5.21E-06	5.21E-06	2.58E-06
261	258855.37	4085606.71	7.00E-06	1.01E-04	7.46E-05	7.46E-05	4.16E-05	1.06E-06	1.54E-05	1.17E-05	1.17E-05	6.41E-06	5.77E-07	8.35E-06	5.19E-06	5.19E-06	2.57E-06
262	258833.47	4085616.84	7.11E-06	1.03E-04	7.58E-05	7.58E-05	4.23E-05	1.08E-06	1.57E-05	1.18E-05	1.18E-05	6.51E-06	5.86E-07	8.48E-06	5.27E-06	5.27E-06	2.61E-06
263	258811.57	4085626.97	7.24E-06	1.05E-04	7.72E-05	7.72E-05	4.30E-05	1.10E-06	1.59E-05	1.20E-05	1.20E-05	6.62E-06	5.97E-07	8.63E-06	5.36E-06	5.36E-06	2.65E-06
264	258789.66	4085637.1	7.37E-06	1.07E-04	7.85E-05	7.85E-05	4.38E-05	1.12E-06	1.62E-05	1.23E-05	1.23E-05	6.74E-06	6.07E-07	8.78E-06	5.46E-06	5.46E-06	2.70E-06
265	258767.76	4085647.23	7.51E-06	1.09E-04	8.00E-05	8.00E-05	4.46E-05	1.14E-06	1.65E-05	1.25E-05	1.25E-05	6.87E-06	6.19E-07	8.95E-06	5.56E-06	5.56E-06	2.75E-06
266	258745.86	4085657.36	7.67E-06	1.11E-04	8.17E-05	8.17E-05	4.56E-05	1.16E-06	1.69E-05	1.28E-05	1.28E-05	7.02E-06	6.32E-07	9.14E-06	5.68E-06	5.68E-06	2.81E-06
267	258723.96	4085667.49	7.85E-06	1.14E-04	8.37E-05	8.37E-05	4.66E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.18E-06	6.47E-07	9.36E-06	5.81E-06	5.81E-06	2.88E-06
268	258702.06	4085677.61	8.05E-06	1.16E-04	8.58E-05	8.58E-05	4.78E-05	1.22E-06	1.77E-05	1.34E-05	1.34E-05	7.36E-06	6.63E-07	9.59E-06	5.96E-06	5.96E-06	2.95E-06
269	258680.16	4085687.74	8.26E-06	1.19E-04	8.80E-05	8.80E-05	4.91E-05	1.25E-06	1.82E-05	1.37E-05	1.37E-05	7.55E-06	6.81E-07	9.84E-06	6.11E-06	6.11E-06	3.03E-06
270	258658.25	4085697.87	8.47E-06	1.22E-04	9.03E-05	9.03E-05	5.03E-05	1.29E-06	1.87E-05	1.41E-05	1.41E-05	7.75E-06	6.98E-07	1.01E-05	6.27E-06	6.27E-06	3.10E-06
271	258636.35	4085708	8.67E-06	1.25E-04	9.24E-05	9.24E-05	5.15E-05	1.32E-06	1.91E-05	1.44E-05	1.44E-05	7.93E-06	7.14E-07	1.03E-05	6.42E-06	6.42E-06	3.18E-06
272	258614.45	4085718.13	8.84E-06	1.28E-04	9.43E-05	9.43E-05	5.26E-05	1.34E-06	1.95E-05	1.47E-05	1.47E-05	8.09E-06	7.29E-07	1.05E-05	6.55E-06	6.55E-06	3.24E-06
273	258592.55	4085728.26	9.01E-06	1.30E-04	9.60E-05	9.60E-05	5.35E-05	1.37E-06	1.98E-05	1.50E-05	1.50E-05	8.24E-06	7.42E-07	1.07E-05	6.67E-06	6.67E-06	3.30E-06
274	258570.65	4085738.39	9.16E-06	1.32E-04	9.76E-05	9.76E-05	5.44E-05	1.39E-06	2.02E-05	1.52E-05	1.52E-05	8.38E-06	7.55E-07	1.09E-05	6.78E-06	6.78E-06	3.36E-06
275	258548.75	4085748.52	9.30E-06	1.35E-04	9.92E-05	9.92E-05	5.53E-05	1.41E-06	2.05E-05	1.55E-05	1.55E-05	8.51E-06	7.67E-07	1.11E-05	6.89E-06	6.89E-06	3.41E-06
276	258526.84	4085758.65	9.46E-06	1.37E-04	1.01E-04	1.01E-04	5.62E-05	1.44E-06	2.08E-05	1.57E-05	1.57E-05	8.66E-06	7.80E-07	1.13E-05	7.00E-06	7.00E-06	3.47E-06
277	258504.94	4085768.78	9.63E-06	1.39E-04	1.03E-04	1.03E-04	5.72E-05	1.46E-06	2.12E-05	1.60E-05	1.60E-05	8.81E-06	7.94E-07	1.15E-05	7.13E-06	7.13E-06	3.53E-06
278	258483.04	4085778.91	9.82E-06	1.42E-04	1.05E-04	1.05E-04	5.84E-05	1.49E-06	2.16E-05	1.63E-05	1.63E-05	8.98E-06	8.09E-07	1.17E-05	7.27E-06	7.27E-06	3.60E-06
279	258461.14	4085789.04	1.00E-05	1.45E-04	1.07E-04	1.07E-04	5.96E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.17E-06	8.26E-07	1.19E-05	7.42E-06	7.42E-06	3.67E-06
280	258439.24	4085799.17	1.02E-05	1.48E-04	1.09E-04	1.09E-04	6.08E-05	1.55E-06	2.25E-05	1.70E-05	1.70E-05	9.36E-06	8.43E-07	1.22E-05	7.58E-06	7.58E-06	3.75E-06
281	258417.33	4085809.3	1.05E-05	1.51E-04	1.11E-04	1.11E-04	6.21E-05	1.59E-06	2.30E-05	1.74E-05	1.74E-05	9.56E-06	8.61E-07	1.25E-05	7.74E-06	7.74E-06	3.83E-06
282	259064.16	4085099.69	1.15E-05	1.66E-04	1.22E-04	1.22E-04	6.82E-05	1.74E-06	2.53E-05	1.91E-05	1.91E-05	1.05E-05	9.45E-07	1.37E-05	8.49E-06	8.49E-06	4.20E-06
283	259063.44	4085074.93	1.19E-05	1.72E-04	1.27E-04	1.27E-04	7.07E-05	1.81E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.80E-07	1.42E-05	8.81E-06	8.81E-06	4.36E-06
284	259062.72	4085050.18	1.24E-05	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.16E-06	9.16E-06	4.53E-06
285	259061.99	4085025.42	1.29E-05	1.86E-04	1.37E-04	1.37E-04	7.66E-05	1.96E-06	2.84E-05	2.14E-05	2.14E-05	1.18E-05	1.06E-06	1.54E-05	9.54E-06	9.54E-06	4.72E-06
286	259061.27	4085000.66	1.35E-05	1.95E-04	1.43E-04	1.43E-04	8.00E-05	2.04E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.60E-05	9.97E-06	9.97E-06	4.93E-06
287	259060.55	4084975.91	1.41E-05	2.04E-04	1.50E-04	1.50E-04	8.37E-05	2.14E-06	3.10E-05	2.34E-05	2.34E-05	1.29E-05	1.16E-06	1.68E-05	1.04E-05	1.04E-05	5.16E-06
288	259059.83	4084951.15	1.48E-05	2.13E-04	1.57E-04	1.57E-04	8.77E-05	2.24E-06	3.25E-05	2.46E-05	2.46E-05	1.35E-05	1.22E-06	1.76E-05	1.09E-05	1.09E-05	5.41E-06
289	259059.1	4084926.4	1.55E-05	2.24E-04	1.65E-04	1.65E-04	9.20E-05	2.35E-06	3.41E-05	2.58E-05	2.58E-05	1.42E-05	1.28E-06	1.84E-05	1.15E-05	1.15E-05	5.67E-06
290	259058.38	4084901.64	1.62E-05	2.35E-04	1.73E-04	1.73E-04	9.64E-05	2.46E-06	3.58E-05	2.70E-05	2.70E-05	1.48E-05	1.34E-06	1.93E-05	1.20E-05	1.20E-05	5.95E-06
291	259255.5	4085116.67	8.09E-06	1.17E-04	8.62E-05	8.62E-05	4.81E-05	1.23E-06	1.78E-05	1.35E-05	1.35E-05	7.40E-06	6.66E-07	9.64E-06	5.99E-06	5.99E-06	2.96E-06
292	259246.91	4085139.49	8.01E-06	1.16E-04	8.54E-05	8.54E-05	4.76E-05	1.22E-06	1.76E-05	1.33E-05	1.33E-05	7.33E-06	6.60E-07	9.55E-06	5.93E-06	5.93E-06	2.94E-06
293	259238.33	4085162.3	7.91E-06	1.14E-04	8.44E-05	8.44E-05	4.70E-05	1.20E-06	1.74E-05	1.32E-05	1.32E-05	7.24E-06	6.52E-07	9.43E-06	5.86E-06	5.86E-06	2.90E-06
294	259229.75	4085185.12	7.79E-06	1.13E-04	8.31E-05	8.31E-05	4.63E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.13E-06	6.42E-07	9.29E-06	5.77E-06	5.77E-06	2.86E-06
295	259221.17	4085207.94	7.63E-06	1.10E-04	8.13E-05	8.13E-05	4.53E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.98E-06	6.29E-07	9.09E-06	5.65E-06	5.65E-06	2.80E-06
296	259212.59	4085230.75	7.47E-06	1.08E-04	7.96E-05	7.96E-05	4.44E-05	1.13E-06	1.65E-05	1.24E-05	1.24E-05	6.84E-06	6.16E-07	8.91E-06	5.53E-06	5.53E-06	2.74E-06
297	259204.01	4085253.57	7.31E-06	1.06E-04	7.79E-05	7.79E-05	4.34E-05	1.11E-06	1.61E-05	1.22E-05	1.22E-05	6.68E-06	6.02E-07	8.71E-06	5.41E-06	5.41E-06	2.68E-06
298	259195.42	4085276.39	7.14E-06	1.03E-04	7.61E-05	7.61E-05	4.24E-05	1.08E-06	1.57E-05	1.19E-05	1.19E-05	6.53E-06	5.88E-07	8.51E-06	5.29E-06	5.29E-06	2.62E-06
299	259186.84	4085299.2	6.97E-06	1.01E-04	7.43E-05	7.43E-05	4.14E-05	1.06E-06	1.54E-05	1.16E-05	1.16E-05	6.38E-06	5.75E-07	8.31E-06	5.16E-06	5.16E-06	2.56E-06
300	259178.26	4085322.02	6.82E-06	9.86E-05	7.27E-05	7.27E-05	4.05E-05	1.03E-06	1.50E-05	1.13E-05	1.13E-05	6.24E-06	5.62E-07	8.13E-06	5.05E-06	5.05E-06	2.50E-06
301	259169.68	4085344.84	6.67E-06	9.65E-05	7.11E-05	7.11E-05	3.96E-05	1.01E-06	1.47E-05	1.11E-05	1.11E-05	6.10E-06	5.50E-07	7.95E-06	4.94E-06	4.94E-06	2.44E-06
302	259161.1	4085367.65	6.54E-06	9.45E-05	6.97E-05	6.97E-05	3.88E-05	9.92E-07	1.44E-05	1.09E-05	1.09E-05	5.98E-06	5.39E-07	7.79E-06	4.84E-06	4.84E-06	2.40E-06
303	259152.52	4085390.47	6.41E-06	9.28E-05	6.84E-05	6.84E-05	3.81E-05	9.73E-07	1.41E-05	1.07E-05	1.07E-05	5.87E-06	5.29E-07	7.65E-06	4.75E-06	4.75E-06	2.35E-06
304	259143.93	4085413.28	6.30E-06	9.11E-05	6.72E-05	6.72E-05	3.74E-05	9.56E-07	1.39E-05	1.05E-05	1.05E-05	5.77E-06	5.19E-07	7.51E-06	4.67E-06	4.67E-06	2.31E-06
305	259135.35	4085436.1	6.20E-06	8.96E-05	6.61E-05	6.61E-05	3.68E-05	9.40E-07	1.37E-05	1.03E-05	1.03E-05	5.67E-06	5.11E-07	7.39E-06	4.59E-06	4.59E-06	2.27E-06
306	259126.77	4085458.92	6.09E-06	8.81E-05	6.50E-05	6.50E-05	3.62E-05	9.25E-07	1.34E-05	1.01E-05	1.01E-05	5.58E-06	5.02E-07	7.27E-06	4.51E-06	4.51E-06	2.23E-06
307	259118.19	4085481.73	5.99E-06	8.67E-05	6.39E-05	6.39E-05	3.56E-05	9.10E-07	1.32E-05	9.98E-06	9.98E-06	5.48E-06	4.94E-07	7.15E-06	4.44E-06	4.44E-06	2.20E-06
308	259109.61	4085504.55	5.89E-06	8.52E-05	6.28E-05	6.28E-05	3.50E-05	8.94E-07	1.30E-05	9.81E-06	9.81E-06	5.39E-06	4.86E-07	7.02E-06	4.36E-06	4.36E-06	2.16E-06
309	259101.02	4085527.37	5.79E-06	8.37E-05	6.17E-05	6.17E-05	3.44E-05	8.79E-07	1.28E-05	9.64E-06	9.64E-06	5.30E-06	4.77E-07	6.90E-06	4.29E-06	4.29E-06	2.12E-06
310	259092.44	4085550.18	5.69E-06	8.22E-05	6.06E-05	6.06E-05	3.38E-05	8.63E-07	1.25E-05	9.46E-06	9.46E-06	5.20E-06	4.69E-07	6.78E-06	4.21E-06	4.21E-06	2.08E-06
311	259083.86	4085573	5.58E-06	8.07E-05	5.95E-05	5.95E-05	3.32E-05	8.47E-07	1.23E-05	9.29E-06	9.29E-06	5.11E-06	4.60E-07	6.65E-06	4.13E-06	4.13E-06	2.05E-06
312	259075.28	4085595.82	5.47E-06	7.92E-05	5.83E-05	5.83E-05	3.25E-05	8.31E-07	1.21E-05	9.11E-06	9.11E-06	5.01E-06	4.51E-07	6.53E-06	4.05E-06	4.05E-06	2.01E-06
313	259066.7	4085618.63	5.37E-06	7.76E-05	5.72E-05	5.72E-05	3.19E-05	8.14E-07	1.18E-05	8.93E-06	8.93E-06	4.91E-06	4.42E-07	6.40E-06	3.97E-06	3.97E-06	1.97E-06
314	259058.12	4085641.45	5.26E-06	7.61E-05	5.61E-05	5.61E-05	3.13E-05	7.99E-07	1.16E-05	8.76E-06	8.76E-06	4.82E-06	4.34E-07	6.28E-06	3.90E-06	3.90E-06	1.93E-06
315	259049.53	4085664.27	5.17E-06	7.47E-05	5.51E-05	5.51E-05	3.07E-05	7.84E-07	1.14E-05	8.60E-06	8.60E-06	4.73E-06	4.26E-07	6.16E-06	3.83E-06	3.83E-06	1.89E-06
316	259040.95	4085687.08	5.08E-06	7.34E-05	5.41E-05	5.41E-05	3.02E-05	7.70E-07	1.12E-05	8.45E-06	8.45E-06	4.64E-06	4.18E-07	6.05E-06	3.76E-06	3.76E-06	1.86E-06
317	259032.37	4085709.9	4.99E-06	7.22E-05	5.32E-05	5.32E-05	2.97E-05	7.58E-07	1.10E-05	8.31E-06	8.31E-06	4.57E-06	4.11E-07	5.95E-06	3.70E-06	3.70E-06	1.83E-06
318	259001.66	4085742.95	4.98E-06	7.20E-05	5.30E-05	5.30E-05	2.96E-05	7.55E-07	1.10E-05	8.28E-06	8.28E-06	4.55E-06	4.10E-07	5.93E-06	3.68E-06	3.68E-06	1.82E-06
319	258979.54	4085753.18	5.04E-06	7.29E-05	5.37E-05	5.37E-05	2.99E-05	7.65E-07	1.11E-05	8.39E-06	8.39E-06	4.61E-06	4.15E-07	6.01E-06	3.73E-06	3.73E-06	1.85E-06
320	258957.41	4085763.41	5.11E-06	7.39E-05	5.44E-05	5.44E-05	3.03E-05	7.75E-07	1.13E-05	8.50E-06	8.50E-06	4.67E-06	4.21E-07	6.09E-06	3.78E-06	3.78E-06	1.87E-06
321	258935.29	4085773.65	5.18E-06	7.49E-05	5.52E-05	5.52E-05	3.08E-05	7.86E-07	1.14E-05	8.62E-06	8.62E-06	4.74E-06	4.27E-07	6.17E-06	3.83E-06	3.83E-06	1.90E-06
322	258913.16	4085783.88	5.25E-06	7.60E-05	5.60E-05	5.60E-05	3.12E-05	7.97E-07	1.16E-05	8.75E-06	8.75E-06	4.81E-06	4.33E-07	6.26E-06	3.89E-06	3.89E-06	1.93E-06
323	258891.04	4085794.11	5.34E-06	7.72E-05	5.69E-05	5.69E-05	3.17E-05	8.10E-07	1.18E-05	8.88E-06	8.88E-06	4.88E-06	4.40E-07	6.36E-06	3.95E-06	3.95E-06	1.96E-06
324	258868.91	4085804.34	5.42E-06	7.84E-05	5.78E-05	5.78E-05	3.22E-05	8.23E-07	1.20E-05	9.03E-06	9.03E-06	4.96E-06	4.47E-07	6.47E-06	4.02E-06	4.02E-06	1.99E-06
325	258846.79	4085814.58	5.52E-06	7.99E-05	5.89E-05	5.89E-05	3.28E-05	8.38E-07	1.22E-05	9.19E-06	9.19E-06	5.05E-06	4.55E-07	6.58E-06	4.09E-06	4.09E-06	2.02E-06
326	258824.66	4085824.81	5.64E-06	8.15E-05	6.01E-05	6.01E-05	3.35E-05	8.55E-07	1.24E-05	9.38E-06	9.38E-06	5.16E-06	4.64E-07	6.72E-06	4.17E-06	4.17E-06	2.07E-06
327	258802.54	4085835.04	5.76E-06	8.33E-05	6.14E-05	6.14E-05	3.42E-05	8.74E-07	1.27E-05	9.58E-06	9.58E-06	5.27E-06	4.75E-07	6.86E-06	4.26E-06	4.26E-06	2.11E-06
328	258780.41	4085845.27	5.89E-06	8.52E-05	6.28E-05	6.28E-05	3.50E-05	8.94E-07	1.30E-05	9.81E-06	9.81E-06	5.39E-06	4.86E-07	7.02E-06	4.36E-06	4.36E-06	2.16E-06
329	258758.29	4085855.51	6.04E-06	8.73E-05	6.44E-05	6.44E-05	3.59E-05	9.16E-07	1.33E-05	1.00E-05	1.00E-05	5.52E-06	4.98E-07	7.20E-06	4.47E-06	4.47E-06	2.21E-06
330	258736.16	4085865.74	6.18E-06	8.94E-05	6.59E-05	6.59E-05	3.67E-05	9.38E-07	1.36E-05	1.03E-05	1.03E-05	5.66E-06	5.09E-07	7.37E-06	4.58E-06	4.58E-06	2.27E-06
331	258714.04	4085875.97	6.31E-06	9.13E-05	6.73E-05	6.73E-05	3.75E-05	9.58E-07	1.39E-05	1.05E-05	1.05E-05	5.78E-06	5.20E-07	7.53E-06	4.68E-06	4.68E-06	2.31E-06
332	258691.91	4085886.2	6.44E-06	9.31E-05	6.87E-05	6.87E-05	3.83E-05	9.77E-07	1.42E-05	1.07E-05	1.07E-05	5.89E-06	5.31E-07	7.68E-06	4.77E-06	4.77E-06	2.36E-06
333	258669.79	4085896.44	6.55E-06	9.47E-05	6.98E-05	6.98E-05	3.89E-05	9.94E-07	1.44E-05	1.09E-05	1.09E-05	5.99E-06	5.40E-07	7.81E-06	4.85E-06	4.85E-06	2.40E-06
334	258647.66	4085906.67	6.65E-06	9.62E-05	7.09E-05	7.09E-05	3.95E-05	1.01E-06	1.47E-05	1.11E-05	1.11E-05	6.09E-06	5.48E-07	7.93E-06	4.93E-06	4.93E-06	2.44E-06
335	258625.54	4085916.9	6.75E-06	9.76E-05	7.19E-05	7.19E-05	4.01E-05	1.02E-06	1.49E-05	1.12E-05	1.12E-05	6.17E-06	5.56E-07	8.04E-06	5.00E-06	5.00E-06	2.47E-06
336	258603.41	4085927.13	6.84E-06	9.89E-05	7.29E-05	7.29E-05	4.07E-05	1.04E-06	1.51E-05	1.14E-05	1.14E-05	6.26E-06	5.64E-07	8.15E-06	5.07E-06	5.07E-06	2.51E-06
337	258581.28	4085937.37	6.93E-06	1.00E-04	7.39E-05	7.39E-05	4.12E-05	1.05E-06	1.53E-05	1.15E-05	1.15E-05	6.35E-06	5.72E-07	8.27E-06	5.14E-06	5.14E-06	2.54E-06
338	258559.16	4085947.6	7.03E-06	1.02E-04	7.50E-05	7.50E-05	4.18E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.44E-06	5.80E-07	8.38E-06	5.21E-06	5.21E-06	2.58E-06
339	258537.03	4085957.83	7.14E-06	1.03E-04	7.61E-05	7.61E-05	4.24E-05	1.08E-06	1.57E-05	1.19E-05	1.19E-05	6.53E-06	5.88E-07	8.51E-06	5.29E-06	5.29E-06	2.62E-06
340	258514.91	4085968.07	7.25E-06	1.05E-04	7.73E-05	7.73E-05	4.31E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.63E-06	5.98E-07	8.64E-06	5.37E-06	5.37E-06	2.66E-06
341	258492.78	4085978.3	7.37E-06	1.07E-04	7.85E-05	7.85E-05	4.38E-05	1.12E-06	1.62E-05	1.23E-05	1.23E-05	6.74E-06	6.07E-07	8.78E-06	5.46E-06	5.46E-06	2.70E-06
342	258470.66	4085988.53	7.49E-06	1.08E-04	7.98E-05	7.98E-05	4.45E-05	1.14E-06	1.65E-05	1.25E-05	1.25E-05	6.85E-06	6.17E-07	8.93E-06	5.54E-06	5.54E-06	2.74E-06
343	258448.53	4085998.76	7.61E-06	1.10E-04	8.11E-05	8.11E-05	4.52E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.96E-06	6.27E-07	9.07E-06	5.64E-06	5.64E-06	2.79E-06
344	258426.41	4086009	7.74E-06	1.12E-04	8.25E-05	8.25E-05	4.60E-05	1.17E-06	1.70E-05	1.29E-05	1.29E-05	7.08E-06	6.38E-07	9.22E-06	5.73E-06	5.73E-06	2.84E-06
345	259264.08	4085093.86	8.16E-06	1.18E-04	8.70E-05	8.70E-05	4.85E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.46E-06	6.72E-07	9.73E-06	6.04E-06	6.04E-06	2.99E-06
346	259263.35	4085069.1	8.37E-06	1.21E-04	8.92E-05	8.92E-05	4.97E-05	1.27E-06	1.84E-05	1.39E-05	1.39E-05	7.66E-06	6.90E-07	9.98E-06	6.20E-06	6.20E-06	3.07E-06
347	259262.63	4085044.34	8.61E-06	1.25E-04	9.18E-05	9.18E-05	5.12E-05	1.31E-06	1.90E-05	1.43E-05	1.43E-05	7.88E-06	7.10E-07	1.03E-05	6.38E-06	6.38E-06	3.16E-06

348	259261.91	4085019.59	8.89E-06	1.29E-04	9.47E-05	9.47E-05	5.28E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.13E-06	7.33E-07	1.06E-05	6.58E-06	6.58E-06	3.26E-06
349	259261.19	4084994.83	9.20E-06	1.33E-04	9.81E-05	9.81E-05	5.47E-05	1.40E-06	2.03E-05	1.53E-05	1.53E-05	8.42E-06	7.59E-07	1.10E-05	6.82E-06	6.82E-06	3.37E-06
350	259260.46	4084970.07	9.56E-06	1.38E-04	1.02E-04	1.02E-04	5.68E-05	1.45E-06	2.11E-05	1.59E-05	1.59E-05	8.75E-06	7.88E-07	1.14E-05	7.08E-06	7.08E-06	3.50E-06
351	259259.74	4084945.32	9.94E-06	1.44E-04	1.06E-04	1.06E-04	5.91E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.09E-06	8.19E-07	1.18E-05	7.36E-06	7.36E-06	3.64E-06
352	259259.02	4084920.56	1.03E-05	1.49E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.46E-06	8.52E-07	1.23E-05	7.65E-06	7.65E-06	3.79E-06
353	259258.3	4084895.81	1.07E-05	1.55E-04	1.14E-04	1.14E-04	6.38E-05	1.63E-06	2.37E-05	1.79E-05	1.79E-05	9.83E-06	8.85E-07	1.28E-05	7.95E-06	7.95E-06	3.94E-06
354	259455.35	4085110.99	6.21E-06	8.98E-05	6.62E-05	6.62E-05	3.69E-05	9.42E-07	1.37E-05	1.03E-05	1.03E-05	5.68E-06	5.12E-07	7.40E-06	4.60E-06	4.60E-06	2.28E-06
355	259446.72	4085133.95	6.18E-06	8.94E-05	6.59E-05	6.59E-05	3.67E-05	9.38E-07	1.36E-05	1.03E-05	1.03E-05	5.65E-06	5.09E-07	7.37E-06	4.58E-06	4.58E-06	2.26E-06
356	259438.08	4085156.92	6.14E-06	8.88E-05	6.54E-05	6.54E-05	3.65E-05	9.32E-07	1.35E-05	1.02E-05	1.02E-05	5.62E-06	5.06E-07	7.32E-06	4.55E-06	4.55E-06	2.25E-06
357	259429.44	4085179.88	6.09E-06	8.81E-05	6.49E-05	6.49E-05	3.62E-05	9.24E-07	1.34E-05	1.01E-05	1.01E-05	5.57E-06	5.02E-07	7.26E-06	4.51E-06	4.51E-06	2.23E-06
358	259420.8	4085202.85	6.02E-06	8.70E-05	6.42E-05	6.42E-05	3.58E-05	9.13E-07	1.33E-05	1.00E-05	1.00E-05	5.51E-06	4.96E-07	7.18E-06	4.46E-06	4.46E-06	2.21E-06
359	259412.17	4085225.81	5.93E-06	8.58E-05	6.32E-05	6.32E-05	3.52E-05	9.00E-07	1.31E-05	9.87E-06	9.87E-06	5.43E-06	4.89E-07	7.07E-06	4.39E-06	4.39E-06	2.17E-06
360	259403.53	4085248.78	5.83E-06	8.43E-05	6.21E-05	6.21E-05	3.46E-05	8.84E-07	1.28E-05	9.70E-06	9.70E-06	5.33E-06	4.80E-07	6.95E-06	4.32E-06	4.32E-06	2.14E-06
361	259394.89	4085271.74	5.71E-06	8.26E-05	6.09E-05	6.09E-05	3.40E-05	8.67E-07	1.26E-05	9.51E-06	9.51E-06	5.23E-06	4.71E-07	6.81E-06	4.23E-06	4.23E-06	2.09E-06
362	259386.25	4085294.71	5.59E-06	8.09E-05	5.96E-05	5.96E-05	3.32E-05	8.49E-07	1.23E-05	9.31E-06	9.31E-06	5.12E-06	4.61E-07	6.67E-06	4.14E-06	4.14E-06	2.05E-06
363	259377.61	4085317.68	5.47E-06	7.91E-05	5.83E-05	5.83E-05	3.25E-05	8.30E-07	1.20E-05	9.10E-06	9.10E-06	5.00E-06	4.51E-07	6.52E-06	4.05E-06	4.05E-06	2.00E-06
364	259368.98	4085340.64	5.34E-06	7.72E-05	5.69E-05	5.69E-05	3.17E-05	8.10E-07	1.18E-05	8.88E-06	8.88E-06	4.88E-06	4.40E-07	6.36E-06	3.95E-06	3.95E-06	1.96E-06
365	259360.34	4085363.61	5.23E-06	7.56E-05	5.57E-05	5.57E-05	3.11E-05	7.93E-07	1.15E-05	8.70E-06	8.70E-06	4.78E-06	4.31E-07	6.23E-06	3.87E-06	3.87E-06	1.92E-06
366	259351.7	4085386.57	5.12E-06	7.41E-05	5.46E-05	5.46E-05	3.05E-05	7.78E-07	1.13E-05	8.53E-06	8.53E-06	4.69E-06	4.22E-07	6.11E-06	3.80E-06	3.80E-06	1.88E-06
367	259343.06	4085409.54	5.03E-06	7.28E-05	5.36E-05	5.36E-05	2.99E-05	7.64E-07	1.11E-05	8.38E-06	8.38E-06	4.61E-06	4.15E-07	6.00E-06	3.73E-06	3.73E-06	1.84E-06
368	259334.43	4085432.5	4.95E-06	7.16E-05	5.28E-05	5.28E-05	2.94E-05	7.51E-07	1.09E-05	8.24E-06	8.24E-06	4.53E-06	4.08E-07	5.90E-06	3.67E-06	3.67E-06	1.81E-06
369	259325.79	4085455.47	4.88E-06	7.06E-05	5.20E-05	5.20E-05	2.90E-05	7.40E-07	1.08E-05	8.12E-06	8.12E-06	4.46E-06	4.02E-07	5.82E-06	3.61E-06	3.61E-06	1.79E-06
370	259317.15	4085478.43	4.81E-06	6.96E-05	5.13E-05	5.13E-05	2.86E-05	7.30E-07	1.06E-05	8.01E-06	8.01E-06	4.40E-06	3.97E-07	5.74E-06	3.56E-06	3.56E-06	1.76E-06
371	259308.51	4085501.4	4.75E-06	6.87E-05	5.06E-05	5.06E-05	2.82E-05	7.21E-07	1.05E-05	7.91E-06	7.91E-06	4.35E-06	3.92E-07	5.66E-06	3.52E-06	3.52E-06	1.74E-06
372	259299.87	4085524.37	4.69E-06	6.78E-05	5.00E-05	5.00E-05	2.79E-05	7.12E-07	1.03E-05	7.81E-06	7.81E-06	4.29E-06	3.87E-07	5.59E-06	3.47E-06	3.47E-06	1.72E-06
373	259291.24	4085547.33	4.63E-06	6.70E-05	4.94E-05	4.94E-05	2.75E-05	7.03E-07	1.02E-05	7.71E-06	7.71E-06	4.24E-06	3.82E-07	5.52E-06	3.43E-06	3.43E-06	1.70E-06
374	259282.6	4085570.3	4.58E-06	6.62E-05	4.88E-05	4.88E-05	2.72E-05	6.95E-07	1.01E-05	7.62E-06	7.62E-06	4.19E-06	3.77E-07	5.46E-06	3.39E-06	3.39E-06	1.68E-06
375	259273.96	4085593.26	4.52E-06	6.54E-05	4.82E-05	4.82E-05	2.69E-05	6.86E-07	9.96E-06	7.52E-06	7.52E-06	4.14E-06	3.73E-07	5.39E-06	3.35E-06	3.35E-06	1.66E-06
376	259265.32	4085616.23	4.46E-06	6.45E-05	4.76E-05	4.76E-05	2.65E-05	6.77E-07	9.83E-06	7.43E-06	7.43E-06	4.08E-06	3.68E-07	5.32E-06	3.31E-06	3.31E-06	1.64E-06
377	259256.69	4085639.19	4.40E-06	6.37E-05	4.69E-05	4.69E-05	2.62E-05	6.68E-07	9.70E-06	7.33E-06	7.33E-06	4.03E-06	3.63E-07	5.25E-06	3.26E-06	3.26E-06	1.61E-06
378	259248.05	4085662.16	4.34E-06	6.28E-05	4.63E-05	4.63E-05	2.58E-05	6.59E-07	9.56E-06	7.22E-06	7.22E-06	3.97E-06	3.58E-07	5.17E-06	3.21E-06	3.21E-06	1.59E-06
379	259239.41	4085685.12	4.27E-06	6.18E-05	4.56E-05	4.56E-05	2.54E-05	6.49E-07	9.42E-06	7.11E-06	7.11E-06	3.91E-06	3.52E-07	5.10E-06	3.17E-06	3.17E-06	1.57E-06
380	259230.77	4085708.09	4.20E-06	6.08E-05	4.48E-05	4.48E-05	2.50E-05	6.38E-07	9.26E-06	7.00E-06	7.00E-06	3.85E-06	3.47E-07	5.01E-06	3.11E-06	3.11E-06	1.54E-06
381	259222.13	4085731.06	4.14E-06	5.98E-05	4.41E-05	4.41E-05	2.46E-05	6.28E-07	9.11E-06	6.88E-06	6.88E-06	3.78E-06	3.41E-07	4.93E-06	3.06E-06	3.06E-06	1.52E-06
382	259213.5	4085754.02	4.07E-06	5.88E-05	4.34E-05	4.34E-05	2.42E-05	6.17E-07	8.96E-06	6.77E-06	6.77E-06	3.72E-06	3.35E-07	4.85E-06	3.01E-06	3.01E-06	1.49E-06
383	259204.86	4085776.99	4.00E-06	5.79E-05	4.26E-05	4.26E-05	2.38E-05	6.07E-07	8.81E-06	6.66E-06	6.66E-06	3.66E-06	3.30E-07	4.77E-06	2.96E-06	2.96E-06	1.47E-06
384	259196.22	4085799.95	3.94E-06	5.70E-05	4.20E-05	4.20E-05	2.34E-05	5.98E-07	8.68E-06	6.56E-06	6.56E-06	3.60E-06	3.25E-07	4.70E-06	2.92E-06	2.92E-06	1.44E-06
385	259187.58	4085822.92	3.88E-06	5.61E-05	4.14E-05	4.14E-05	2.31E-05	5.89E-07	8.55E-06	6.46E-06	6.46E-06	3.55E-06	3.20E-07	4.63E-06	2.87E-06	2.87E-06	1.42E-06
386	259178.95	4085845.88	3.83E-06	5.54E-05	4.08E-05	4.08E-05	2.28E-05	5.81E-07	8.44E-06	6.37E-06	6.37E-06	3.50E-06	3.16E-07	4.57E-06	2.84E-06	2.84E-06	1.40E-06
387	259148.04	4085879.15	3.83E-06	5.53E-05	4.08E-05	4.08E-05	2.27E-05	5.81E-07	8.43E-06	6.37E-06	6.37E-06	3.50E-06	3.15E-07	4.56E-06	2.83E-06	2.83E-06	1.40E-06
388	259125.77	4085889.45	3.87E-06	5.60E-05	4.13E-05	4.13E-05	2.30E-05	5.87E-07	8.53E-06	6.44E-06	6.44E-06	3.54E-06	3.19E-07	4.61E-06	2.87E-06	2.87E-06	1.42E-06
389	259103.5	4085899.75	3.92E-06	5.66E-05	4.17E-05	4.17E-05	2.33E-05	5.94E-07	8.63E-06	6.52E-06	6.52E-06	3.58E-06	3.23E-07	4.67E-06	2.90E-06	2.90E-06	1.44E-06
390	259081.23	4085910.05	3.96E-06	5.73E-05	4.22E-05	4.22E-05	2.36E-05	6.01E-07	8.73E-06	6.60E-06	6.60E-06	3.63E-06	3.27E-07	4.72E-06	2.93E-06	2.93E-06	1.45E-06
391	259058.96	4085920.35	4.01E-06	5.80E-05	4.28E-05	4.28E-05	2.38E-05	6.09E-07	8.84E-06	6.68E-06	6.68E-06	3.67E-06	3.31E-07	4.78E-06	2.97E-06	2.97E-06	1.47E-06
392	259036.69	4085930.65	4.06E-06	5.88E-05	4.33E-05	4.33E-05	2.42E-05	6.17E-07	8.95E-06	6.76E-06	6.76E-06	3.72E-06	3.35E-07	4.84E-06	3.01E-06	3.01E-06	1.49E-06
393	259014.42	4085940.95	4.12E-06	5.95E-05	4.39E-05	4.39E-05	2.45E-05	6.25E-07	9.07E-06	6.85E-06	6.85E-06	3.77E-06	3.39E-07	4.91E-06	3.05E-06	3.05E-06	1.51E-06
394	258992.15	4085951.25	4.17E-06	6.04E-05	4.45E-05	4.45E-05	2.48E-05	6.33E-07	9.20E-06	6.95E-06	6.95E-06	3.82E-06	3.44E-07	4.98E-06	3.09E-06	3.09E-06	1.53E-06
395	258969.88	4085961.54	4.23E-06	6.12E-05	4.51E-05	4.51E-05	2.52E-05	6.42E-07	9.33E-06	7.05E-06	7.05E-06	3.87E-06	3.49E-07	5.05E-06	3.14E-06	3.14E-06	1.55E-06
396	258947.61	4085971.84	4.29E-06	6.21E-05	4.57E-05	4.57E-05	2.55E-05	6.51E-07	9.45E-06	7.14E-06	7.14E-06	3.93E-06	3.54E-07	5.12E-06	3.18E-06	3.18E-06	1.57E-06
397	258925.34	4085982.14	4.36E-06	6.31E-05	4.65E-05	4.65E-05	2.59E-05	6.62E-07	9.62E-06	7.26E-06	7.26E-06	3.99E-06	3.60E-07	5.20E-06	3.23E-06	3.23E-06	1.60E-06
398	258903.07	4085992.44	4.45E-06	6.44E-05	4.75E-05	4.75E-05	2.65E-05	6.76E-07	9.81E-06	7.41E-06	7.41E-06	4.07E-06	3.67E-07	5.31E-06	3.30E-06	3.30E-06	1.63E-06
399	258880.8	4086002.74	4.55E-06	6.58E-05	4.85E-05	4.85E-05	2.70E-05	6.90E-07	1.00E-05	7.57E-06	7.57E-06	4.16E-06	3.75E-07	5.42E-06	3.37E-06	3.37E-06	1.67E-06
400	258858.53	4086013.04	4.66E-06	6.73E-05	4.96E-05	4.96E-05	2.77E-05	7.07E-07	1.03E-05	7.75E-06	7.75E-06	4.26E-06	3.84E-07	5.55E-06	3.45E-06	3.45E-06	1.71E-06
401	258836.26	4086023.34	4.77E-06	6.89E-05	5.08E-05	5.08E-05	2.83E-05	7.23E-07	1.05E-05	7.93E-06	7.93E-06	4.36E-06	3.93E-07	5.68E-06	3.53E-06	3.53E-06	1.75E-06
402	258813.99	4086033.64	4.88E-06	7.05E-05	5.20E-05	5.20E-05	2.90E-05	7.40E-07	1.07E-05	8.12E-06	8.12E-06	4.46E-06	4.02E-07	5.81E-06	3.61E-06	3.61E-06	1.79E-06
403	258791.72	4086043.94	4.98E-06	7.20E-05	5.31E-05	5.31E-05	2.96E-05	7.56E-07	1.10E-05	8.29E-06	8.29E-06	4.56E-06	4.11E-07	5.94E-06	3.69E-06	3.69E-06	1.83E-06
404	258769.45	4086054.24	5.08E-06	7.34E-05	5.41E-05	5.41E-05	3.02E-05	7.71E-07	1.12E-05	8.45E-06	8.45E-06	4.65E-06	4.19E-07	6.05E-06	3.76E-06	3.76E-06	1.86E-06
405	258747.18	4086064.54	5.16E-06	7.47E-05	5.50E-05	5.50E-05	3.07E-05	7.84E-07	1.14E-05	8.60E-06	8.60E-06	4.73E-06	4.26E-07	6.16E-06	3.82E-06	3.82E-06	1.89E-06
406	258724.91	4086074.84	5.24E-06	7.57E-05	5.58E-05	5.58E-05	3.11E-05	7.95E-07	1.15E-05	8.71E-06	8.71E-06	4.79E-06	4.32E-07	6.24E-06	3.88E-06	3.88E-06	1.92E-06
407	258702.64	4086085.14	5.30E-06	7.66E-05	5.65E-05	5.65E-05	3.15E-05	8.04E-07	1.17E-05	8.82E-06	8.82E-06	4.85E-06	4.37E-07	6.32E-06	3.92E-06	3.92E-06	1.94E-06
408	258680.37	4086095.44	5.36E-06	7.75E-05	5.71E-05	5.71E-05	3.18E-05	8.13E-07	1.18E-05	8.92E-06	8.92E-06	4.90E-06	4.42E-07	6.39E-06	3.97E-06	3.97E-06	1.96E-06
409	258658.1	4086105.74	5.41E-06	7.82E-05	5.76E-05	5.76E-05	3.21E-05	8.21E-07	1.19E-05	9.00E-06	9.00E-06	4.95E-06	4.46E-07	6.45E-06	4.00E-06	4.00E-06	1.98E-06
410	258635.83	4086116.04	5.46E-06	7.90E-05	5.82E-05	5.82E-05	3.24E-05	8.28E-07	1.20E-05	9.09E-06	9.09E-06	5.00E-06	4.50E-07	6.51E-06	4.04E-06	4.04E-06	2.00E-06
411	258613.56	4086126.34	5.51E-06	7.97E-05	5.88E-05	5.88E-05	3.28E-05	8.37E-07	1.21E-05	9.17E-06	9.17E-06	5.04E-06	4.54E-07	6.57E-06	4.08E-06	4.08E-06	2.02E-06
412	258591.29	4086136.64	5.57E-06	8.05E-05	5.94E-05	5.94E-05	3.31E-05	8.45E-07	1.23E-05	9.27E-06	9.27E-06	5.09E-06	4.59E-07	6.64E-06	4.12E-06	4.12E-06	2.04E-06
413	258569.02	4086146.94	5.63E-06	8.14E-05	6.00E-05	6.00E-05	3.35E-05	8.54E-07	1.24E-05	9.37E-06	9.37E-06	5.15E-06	4.64E-07	6.71E-06	4.17E-06	4.17E-06	2.06E-06
414	258546.75	4086157.24	5.69E-06	8.24E-05	6.07E-05	6.07E-05	3.38E-05	8.64E-07	1.25E-05	9.48E-06	9.48E-06	5.21E-06	4.69E-07	6.79E-06	4.22E-06	4.22E-06	2.09E-06
415	258524.48	4086167.54	5.77E-06	8.34E-05	6.15E-05	6.15E-05	3.43E-05	8.75E-07	1.27E-05	9.60E-06	9.60E-06	5.28E-06	4.75E-07	6.87E-06	4.27E-06	4.27E-06	2.11E-06
416	258502.21	4086177.83	5.84E-06	8.45E-05	6.23E-05	6.23E-05	3.47E-05	8.87E-07	1.29E-05	9.72E-06	9.72E-06	5.35E-06	4.82E-07	6.96E-06	4.33E-06	4.33E-06	2.14E-06
417	258479.94	4086188.13	5.93E-06	8.57E-05	6.32E-05	6.32E-05	3.52E-05	8.99E-07	1.31E-05	9.86E-06	9.86E-06	5.42E-06	4.88E-07	7.07E-06	4.39E-06	4.39E-06	2.17E-06
418	258457.67	4086198.43	6.01E-06	8.69E-05	6.40E-05	6.40E-05	3.57E-05	9.12E-07	1.32E-05	1.00E-05	1.00E-05	5.50E-06	4.95E-07	7.16E-06	4.45E-06	4.45E-06	2.20E-06
419	258435.4	4086208.73	6.10E-06	8.83E-05	6.51E-05	6.51E-05	3.63E-05	9.26E-07	1.35E-05	1.02E-05	1.02E-05	5.59E-06	5.03E-07	7.28E-06	4.52E-06	4.52E-06	2.24E-06
420	259463.99	4085088.02	6.24E-06	9.02E-05	6.65E-05	6.65E-05	3.71E-05	9.47E-07	1.37E-05	1.04E-05	1.04E-05	5.71E-06	5.14E-07	7.44E-06	4.62E-06	4.62E-06	2.29E-06
421	259463.27	4085063.26	6.36E-06	9.19E-05	6.78E-05	6.78E-05	3.78E-05	9.65E-07	1.40E-05	1.06E-05	1.06E-05	5.82E-06	5.24E-07	7.58E-06	4.71E-06	4.71E-06	2.33E-06
422	259462.55	4085038.51	6.51E-06	9.41E-05	6.94E-05	6.94E-05	3.87E-05	9.88E-07	1.43E-05	1.08E-05	1.08E-05	5.96E-06	5.36E-07	7.76E-06	4.82E-06	4.82E-06	2.39E-06
423	259461.82	4085013.75	6.68E-06	9.66E-05	7.12E-05	7.12E-05	3.97E-05	1.01E-06	1.47E-05	1.11E-05	1.11E-05	6.11E-06	5.51E-07	7.97E-06	4.95E-06	4.95E-06	2.45E-06
424	259461.1	4084989	6.89E-06	9.96E-05	7.34E-05	7.34E-05	4.09E-05	1.05E-06	1.52E-05	1.15E-05	1.15E-05	6.30E-06	5.68E-07	8.21E-06	5.10E-06	5.10E-06	2.52E-06
425	259460.38	4084964.24	7.12E-06	1.03E-04	7.59E-05	7.59E-05	4.23E-05	1.08E-06	1.57E-05	1.18E-05	1.18E-05	6.51E-06	5.87E-07	8.48E-06	5.27E-06	5.27E-06	2.61E-06
426	259459.66	4084939.48	7.37E-06	1.07E-04	7.85E-05	7.85E-05	4.38E-05	1.12E-06	1.62E-05	1.23E-05	1.23E-05	6.74E-06	6.07E-07	8.78E-06	5.46E-06	5.46E-06	2.70E-06
427	259458.93	4084914.73	7.62E-06	1.10E-04	8.13E-05	8.13E-05	4.53E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.98E-06	6.28E-07	9.09E-06	5.65E-06	5.65E-06	2.79E-06
428	259458.21	4084889.97	7.88E-06	1.14E-04	8.40E-05	8.40E-05	4.69E-05	1.20E-06	1.74E-05	1.31E-05	1.31E-05	7.21E-06	6.50E-07	9.40E-06	5.84E-06	5.84E-06	2.89E-06
429	259655.23	4085105.26	5.01E-06	7.25E-05	5.34E-05	5.34E-05	2.98E-05	7.61E-07	1.10E-05	8.34E-06	8.34E-06	4.59E-06	4.13E-07	5.98E-06	3.71E-06	3.71E-06	1.84E-06
430	259646.55	4085128.33	5.00E-06	7.24E-05	5.33E-05	5.33E-05	2.97E-05	7.59E-07	1.10E-05	8.33E-06	8.33E-06	4.58E-06	4.12E-07	5.97E-06	3.71E-06	3.71E-06	1.83E-06
431	259637.88	4085151.4	4.99E-06	7.22E-05	5.32E-05	5.32E-05	2.97E-05	7.58E-07	1.10E-05	8.31E-06	8.31E-06	4.57E-06	4.12E-07	5.95E-06	3.70E-06	3.70E-06	1.83E-06
432	259629.2	4085174.47	4.97E-06	7.18E-05	5.30E-05	5.30E-05	2.95E-05	7.54E-07	1.09E-05	8.27E-06	8.27E-06	4.55E-06	4.09E-07	5.92E-06	3.68E-06	3.68E-06	1.82E-06
433	259620.52	4085197.54	4.93E-06	7.14E-05	5.26E-05	5.26E-05	2.93E-05	7.49E-07	1.09E-05	8.21E-06	8.21E-06	4.52E-06	4.07E-07	5.88E-06	3.65E-06	3.65E-06	1.81E-06
434	259611.84	4085220.61	4.89E-06	7.07E-05	5.21E-05	5.21E-05	2.91E-05	7.42E-07	1.08E-05	8.14E-06	8.14E-06	4.47E-06	4.03E-07	5.83E-06	3.62E-06	3.62E-06	1.79E-06
435	259603.17	4085243.68	4.83E-06	6.99E-05	5.15E-05	5.15E-05	2.87E-05	7.33E-07	1.06E-05	8.04E-06	8.04E-06	4.42E-06	3.98E-07	5.76E-06	3.58E-06	3.58E-06	1.77E-06
436	259594.49	4085266.75	4.76E-06	6.88E-05	5.07E-05	5.07E-05	2.83E-05	7.22E-07	1.05E-05	7.92E-06	7.92E-06	4.35E-06	3.92E-07	5.67E-06	3.52E-06	3.52E-06	1.74E-06
437	259585.81	4085289.82	4.67E-06	6.76E-05	4.98E-05	4.98E-05	2.78E-05	7.09E-07	1.03E-05	7.78E-06	7.78E-06	4.28E-06	3.85E-07	5.57E-06	3.46E-06	3.46E-06	1.71E-06
438	259577.14	4085312.89	4.59E-06	6.63E-05	4.89E-05	4.89E-05	2.73E-05	6.96E-07	1.01E-05	7.63E-06	7.63E-06	4.20E-06	3.78E-07	5.47E-06	3.40E-06	3.40E-06	1.68E-06
439	259568.46	4085335.96	4.49E-06	6.50E-05	4.79E-05	4.79E-05	2.67E-05	6.82E-07	9.90E-06	7.48E-06	7.48E-06	4.11E-06	3.70E-07	5.36E-06	3.33E-06	3.33E-06	1.65E-06
440	259559.78	4085359.03	4.40E-06	6.37E-05	4.69E-05	4.69E-05	2.62E-05	6.68E-07	9.70E-06	7.33E-06	7.33E-06	4.03E-06	3.63E-07	5.25E-06	3.26E-06	3.26E-06	1.61E-06
441	259551.11	4085382.1	4.32E-06	6.24E-05	4.60E-05	4.60E-05	2.56E-05	6.55E-07	9.51E-06	7.18E-06	7.18E-06	3.95E-06	3.56E-07	5.14E-06	3.20E-06	3.20E-06	1.58E-06
442	259542.43	4085405.17	4.23E-06	6.12E-05	4.51E-05	4.51E-05	2.51E-05	6.42E-07	9.32E-06	7.04E-06	7.04E-06	3.87E-06	3.49E-07	5.04E-06	3.13E-06	3.13E-06	1.55E-06
443	259533.75	4085428.24	4.15E-06	6.01E-05	4.43E-05	4.43E-05	2.47E-05	6.30E-07	9.15E-06	6.91E-06	6.91E-06	3.80E-06	3.42E-07	4.95E-06	3.08E-06	3.08E-06	1.52E-06
444	259525.07	4085451.31	4.08E-06	5.90E-05	4.35E-05	4.35E-05	2.43E-05	6.19E-07	8.99E-06	6.79E-06	6.79E-06	3.74E-06	3.36E-07	4.87E-06	3.02E-06	3.02E-06	1.50E-06
445	259516.4	4085474.37	4.02E-06	5.81E-05	4.28E-05	4.28E-05	2.39E-05	6.10E-07	8.85E-06	6.68E-06	6.68E-06	3.68E-06	3.31E-07	4.79E-06	2.97E-06	2.97E-06	1.47E-06
446	259507.72	4085497.44	3.96E-06	5.73E-05	4.22E-05	4.22E-05	2.35E-05	6.01E-07	8.73E-06	6.59E-06	6.59E-06	3.62E-06	3.26E-07	4.72E-06	2.93E-06	2.93E-06	1.45E-06
447	259499.04	4085520.51	3.91E-06	5.66E-05	4.17E-05	4.17E-05	2.32E-05	5.94E-07	8.62E-06	6.51E-06	6.51E-06	3.58E-06	3.22E-07	4.66E-06	2.90E-06	2.90E-06	1.43E-06
448	259490.37	4085543.58	3.87E-06	5.60E-05	4.12E-05	4.12E-05	2.30E-05	5.87E-07	8.52E-06	6.44E-06	6.44E-06	3.54E-06	3.19E-07	4.61E-06	2.87E-06	2.87E-06	1.42E-06
449	259481.69	4085566.65	3.83E-06	5.54E-05	4.08E-05	4.08E-05	2.28E-05	5.81E-07	8.44E-06	6.37E-06	6.37E-06	3.50E-06	3.16E-07	4.57E-06	2.84E-06	2.84E-06	1.40E-06
450	259473.01	4085589.72	3.79E-06	5.49E-05	4.04E-05	4.04E-05	2.25E-05	5.76E-07	8.36E-06	6.31E-06	6.31E-06	3.47E-06	3.13E-07	4.52E-06	2.81E-06	2.81E-06	1.39E-06
451	259464.33	4085612.79	3.76E-06	5.44E-05	4.01E-05	4.01E-05	2.23E-05	5.70E-07	8.28E-06	6.26E-06	6.26E-06	3.44E-06	3.10E-07	4.48E-06	2.78E-06	2.78E-06	1.38E-06
452	259455.66	4085635.86	3.73E-06	5.39E-05	3.97E-05	3.97E-05	2.21E-05	5.65E-07	8.21E-06	6.20E-06	6.20E-06	3.41E-06	3.07E-07	4.44E-06	2.76E-06	2.76E-06	1.37E-06
453	259446.98	4085658.93	3.69E-06	5.34E-05	3.93E-05	3.93E-05	2.19E-05	5.60E-07	8.13E-06	6.14E-06	6.14E-06	3.38E-06	3.04E-07	4.40E-06	2.73E-06	2.73E-06	1.35E-06
454	259438.3	4085682	3.66E-06	5.29E-05	3.90E-05	3.90E-05	2.17E-05	5.55E-07	8.06E-06	6.09E-06	6.09E-06	3.35E-06	3.01E-07	4.36E-06	2.71E-06	2.71E-06	1.34E-06
455	259429.63	4085705.07	3.62E-06	5.24E-05	3.86E-05	3.86E-05	2.15E-05	5.50E-07	7.98E-06	6.03E-06	6.03E-06	3.32E-06	2.99E-07	4.32E-06	2.68E-06	2.68E-06	1.33E-06
456	259420.95	4085728.14	3.59E-06	5.19E-05	3.82E-05	3.82E-05	2.13E-05	5.44E-07	7.90E-06	5.97E-06	5.97E-06	3.28E-06	2.96E-07	4.28E-06	2.66E-06	2.66E-06	1.31E-06
457	259412.27	4085751.21	3.55E-06	5.13E-05	3.78E-05	3.78E-05	2.11E-05	5.38E-07	7.82E-06	5.90E-06	5.90E-06	3.25E-06	2.92E-07	4.23E-06	2.63E-06	2.63E-06	1.30E-06
458	259403.6	4085774.28	3.50E-06	5.07E-05	3.74E-05	3.74E-05	2.08E-05	5.32E-07	7.72E-06	5.83E-06	5.83E-06	3.21E-06	2.89E-07	4.18E-06	2.59E-06	2.59E-06	1.28E-06
459	259394.92	4085797.35	3.46E-06	5.00E-05	3.69E-05	3.69E-05	2.06E-05	5.25E-07	7.62E-06	5.76E-06	5.76E-06	3.17E-06	2.85E-07	4.12E-06	2.56E-06	2.56E-06	1.27E-06
460	259386.24	4085820.42	3.41E-06	4.93E-05	3.63E-05	3.63E-05	2.03E-05	5.17E-07	7.51E-06	5.68E-06	5.68E-06	3.12E-06	2.81E-07	4.07E-06	2.53E-06	2.53E-06	1.25E-06
461	259377.56	4085843.49	3.36E-06	4.86E-05	3.58E-05	3.58E-05	2.00E-05	5.10E-07	7.40E-06	5.59E-06	5.59E-06	3.07E-06	2.77E-07	4.00E-06	2.49E-06	2.49E-06	1.23E-06
462	259368.89	4085866.56	3.31E-06	4.78E-05	3.53E-05	3.53E-05	1.97E-05	5.02E-07	7.29E-06	5.50E-06	5.50E-06	3.03E-06	2.73E-07	3.94E-06	2.45E-06	2.45E-06	1.21E-06
463	259360.21	4085889.63	3.26E-06	4.71E-05	3.47E-05	3.47E-05	1.94E-05	4.94E-07	7.18E-06	5.42E-06	5.42E-06	2.98E-06	2.69E-07	3.88E-06	2.41E-06	2.41E-06	1.19E-06
464	259351.53	4085912.7	3.21E-06	4.65E-05	3.43E-05	3.43E-05	1.91E-05	4.88E-07	7.08E-06	5.35E-06	5.35E-06	2.94E-06	2.65E-07	3.83E-06	2.38E-06	2.38E-06	1.18E-06

465	259342.86	4085935.77	3.17E-06	4.58E-05	3.38E-05	3.38E-05	1.88E-05	4.81E-07	6.98E-06	5.28E-06	5.28E-06	2.90E-06	2.61E-07	3.78E-06	2.35E-06	2.35E-06	1.16E-06
466	259334.18	4085958.84	3.14E-06	4.53E-05	3.34E-05	3.34E-05	1.86E-05	4.76E-07	6.91E-06	5.22E-06	5.22E-06	2.87E-06	2.58E-07	3.74E-06	2.32E-06	2.32E-06	1.15E-06
467	259325.5	4085981.91	3.10E-06	4.49E-05	3.31E-05	3.31E-05	1.85E-05	4.71E-07	6.84E-06	5.17E-06	5.17E-06	2.84E-06	2.56E-07	3.70E-06	2.30E-06	2.30E-06	1.14E-06
468	259294.45	4086015.33	3.11E-06	4.50E-05	3.31E-05	3.31E-05	1.85E-05	4.72E-07	6.85E-06	5.17E-06	5.17E-06	2.84E-06	2.56E-07	3.71E-06	2.30E-06	2.30E-06	1.14E-06
469	259272.08	4086025.68	3.14E-06	4.54E-05	3.35E-05	3.35E-05	1.87E-05	4.77E-07	6.92E-06	5.23E-06	5.23E-06	2.87E-06	2.59E-07	3.75E-06	2.33E-06	2.33E-06	1.15E-06
470	259249.71	4086036.02	3.17E-06	4.59E-05	3.38E-05	3.38E-05	1.89E-05	4.82E-07	6.99E-06	5.28E-06	5.28E-06	2.90E-06	2.62E-07	3.78E-06	2.35E-06	2.35E-06	1.16E-06
471	259227.34	4086046.37	3.21E-06	4.64E-05	3.42E-05	3.42E-05	1.91E-05	4.87E-07	7.07E-06	5.34E-06	5.34E-06	2.94E-06	2.65E-07	3.83E-06	2.38E-06	2.38E-06	1.18E-06
472	259204.97	4086056.71	3.24E-06	4.69E-05	3.46E-05	3.46E-05	1.93E-05	4.92E-07	7.14E-06	5.40E-06	5.40E-06	2.97E-06	2.67E-07	3.86E-06	2.40E-06	2.40E-06	1.19E-06
473	259182.6	4086067.06	3.27E-06	4.74E-05	3.49E-05	3.49E-05	1.95E-05	4.97E-07	7.22E-06	5.45E-06	5.45E-06	3.00E-06	2.70E-07	3.90E-06	2.42E-06	2.42E-06	1.20E-06
474	259160.23	4086077.41	3.31E-06	4.78E-05	3.53E-05	3.53E-05	1.97E-05	5.02E-07	7.29E-06	5.50E-06	5.50E-06	3.03E-06	2.73E-07	3.94E-06	2.45E-06	2.45E-06	1.21E-06
475	259137.86	4086087.75	3.35E-06	4.84E-05	3.57E-05	3.57E-05	1.99E-05	5.08E-07	7.37E-06	5.57E-06	5.57E-06	3.06E-06	2.76E-07	3.99E-06	2.48E-06	2.48E-06	1.23E-06
476	259115.49	4086098.1	3.39E-06	4.90E-05	3.61E-05	3.61E-05	2.01E-05	5.14E-07	7.46E-06	5.64E-06	5.64E-06	3.10E-06	2.79E-07	4.04E-06	2.51E-06	2.51E-06	1.24E-06
477	259093.11	4086108.45	3.43E-06	4.96E-05	3.66E-05	3.66E-05	2.04E-05	5.21E-07	7.56E-06	5.71E-06	5.71E-06	3.14E-06	2.83E-07	4.09E-06	2.54E-06	2.54E-06	1.26E-06
478	259070.74	4086118.79	3.48E-06	5.03E-05	3.71E-05	3.71E-05	2.07E-05	5.28E-07	7.66E-06	5.79E-06	5.79E-06	3.18E-06	2.87E-07	4.15E-06	2.58E-06	2.58E-06	1.27E-06
479	259048.37	4086129.14	3.53E-06	5.11E-05	3.76E-05	3.76E-05	2.10E-05	5.36E-07	7.78E-06	5.88E-06	5.88E-06	3.23E-06	2.91E-07	4.21E-06	2.61E-06	2.61E-06	1.29E-06
480	259026	4086139.49	3.59E-06	5.19E-05	3.83E-05	3.83E-05	2.13E-05	5.45E-07	7.91E-06	5.98E-06	5.98E-06	3.29E-06	2.96E-07	4.28E-06	2.66E-06	2.66E-06	1.32E-06
481	259003.63	4086149.83	3.66E-06	5.29E-05	3.90E-05	3.90E-05	2.17E-05	5.55E-07	8.06E-06	6.09E-06	6.09E-06	3.35E-06	3.01E-07	4.36E-06	2.71E-06	2.71E-06	1.34E-06
482	258981.26	4086160.18	3.73E-06	5.40E-05	3.98E-05	3.98E-05	2.22E-05	5.67E-07	8.23E-06	6.21E-06	6.21E-06	3.42E-06	3.08E-07	4.45E-06	2.76E-06	2.76E-06	1.37E-06
483	258958.89	4086170.52	3.82E-06	5.52E-05	4.07E-05	4.07E-05	2.27E-05	5.79E-07	8.41E-06	6.35E-06	6.35E-06	3.49E-06	3.15E-07	4.55E-06	2.83E-06	2.83E-06	1.40E-06
484	258936.52	4086180.87	3.91E-06	5.65E-05	4.16E-05	4.16E-05	2.32E-05	5.93E-07	8.61E-06	6.50E-06	6.50E-06	3.57E-06	3.22E-07	4.66E-06	2.89E-06	2.89E-06	1.43E-06
485	258914.15	4086191.22	4.00E-06	5.78E-05	4.26E-05	4.26E-05	2.37E-05	6.06E-07	8.80E-06	6.65E-06	6.65E-06	3.66E-06	3.29E-07	4.76E-06	2.96E-06	2.96E-06	1.46E-06
486	258891.77	4086201.56	4.08E-06	5.91E-05	4.35E-05	4.35E-05	2.43E-05	6.20E-07	9.00E-06	6.80E-06	6.80E-06	3.74E-06	3.37E-07	4.87E-06	3.02E-06	3.02E-06	1.50E-06
487	258869.4	4086211.91	4.17E-06	6.03E-05	4.44E-05	4.44E-05	2.48E-05	6.33E-07	9.18E-06	6.94E-06	6.94E-06	3.81E-06	3.44E-07	4.97E-06	3.09E-06	3.09E-06	1.53E-06
488	258847.03	4086222.26	4.24E-06	6.13E-05	4.52E-05	4.52E-05	2.52E-05	6.43E-07	9.34E-06	7.06E-06	7.06E-06	3.88E-06	3.49E-07	5.05E-06	3.14E-06	3.14E-06	1.55E-06
489	258824.66	4086232.6	4.30E-06	6.22E-05	4.59E-05	4.59E-05	2.56E-05	6.53E-07	9.48E-06	7.16E-06	7.16E-06	3.94E-06	3.55E-07	5.13E-06	3.19E-06	3.19E-06	1.58E-06
490	258802.29	4086242.95	4.35E-06	6.30E-05	4.64E-05	4.64E-05	2.59E-05	6.61E-07	9.59E-06	7.25E-06	7.25E-06	3.98E-06	3.59E-07	5.19E-06	3.22E-06	3.22E-06	1.60E-06
491	258779.92	4086253.3	4.40E-06	6.36E-05	4.69E-05	4.69E-05	2.61E-05	6.67E-07	9.69E-06	7.32E-06	7.32E-06	4.02E-06	3.62E-07	5.24E-06	3.26E-06	3.26E-06	1.61E-06
492	258757.55	4086263.64	4.43E-06	6.41E-05	4.72E-05	4.72E-05	2.63E-05	6.72E-07	9.76E-06	7.37E-06	7.37E-06	4.05E-06	3.65E-07	5.28E-06	3.28E-06	3.28E-06	1.62E-06
493	258735.18	4086273.99	4.46E-06	6.45E-05	4.76E-05	4.76E-05	2.65E-05	6.77E-07	9.83E-06	7.43E-06	7.43E-06	4.08E-06	3.68E-07	5.32E-06	3.30E-06	3.30E-06	1.64E-06
494	258712.81	4086284.33	4.49E-06	6.49E-05	4.78E-05	4.78E-05	2.67E-05	6.81E-07	9.89E-06	7.47E-06	7.47E-06	4.11E-06	3.70E-07	5.35E-06	3.32E-06	3.32E-06	1.64E-06
495	258690.43	4086294.68	4.51E-06	6.53E-05	4.81E-05	4.81E-05	2.68E-05	6.85E-07	9.95E-06	7.51E-06	7.51E-06	4.13E-06	3.72E-07	5.38E-06	3.34E-06	3.34E-06	1.65E-06
496	258668.06	4086305.03	4.54E-06	6.57E-05	4.85E-05	4.85E-05	2.70E-05	6.90E-07	1.00E-05	7.56E-06	7.56E-06	4.16E-06	3.75E-07	5.42E-06	3.37E-06	3.37E-06	1.67E-06
497	258645.69	4086315.37	4.58E-06	6.62E-05	4.88E-05	4.88E-05	2.72E-05	6.95E-07	1.01E-05	7.62E-06	7.62E-06	4.19E-06	3.77E-07	5.46E-06	3.39E-06	3.39E-06	1.68E-06
498	258623.32	4086325.72	4.62E-06	6.68E-05	4.92E-05	4.92E-05	2.74E-05	7.01E-07	1.02E-05	7.68E-06	7.68E-06	4.22E-06	3.81E-07	5.50E-06	3.42E-06	3.42E-06	1.69E-06
499	258600.95	4086336.07	4.66E-06	6.74E-05	4.97E-05	4.97E-05	2.77E-05	7.07E-07	1.03E-05	7.76E-06	7.76E-06	4.26E-06	3.84E-07	5.56E-06	3.45E-06	3.45E-06	1.71E-06
500	258578.58	4086346.41	4.71E-06	6.81E-05	5.02E-05	5.02E-05	2.80E-05	7.15E-07	1.04E-05	7.84E-06	7.84E-06	4.31E-06	3.88E-07	5.61E-06	3.49E-06	3.49E-06	1.73E-06
501	258556.21	4086356.76	4.76E-06	6.88E-05	5.07E-05	5.07E-05	2.83E-05	7.22E-07	1.05E-05	7.92E-06	7.92E-06	4.36E-06	3.92E-07	5.68E-06	3.53E-06	3.53E-06	1.74E-06
502	258533.84	4086367.11	4.82E-06	6.96E-05	5.13E-05	5.13E-05	2.86E-05	7.31E-07	1.06E-05	8.02E-06	8.02E-06	4.41E-06	3.97E-07	5.74E-06	3.57E-06	3.57E-06	1.77E-06
503	258511.47	4086377.45	4.87E-06	7.05E-05	5.19E-05	5.19E-05	2.90E-05	7.40E-07	1.07E-05	8.11E-06	8.11E-06	4.46E-06	4.02E-07	5.81E-06	3.61E-06	3.61E-06	1.79E-06
504	258489.09	4086387.8	4.93E-06	7.13E-05	5.26E-05	5.26E-05	2.93E-05	7.49E-07	1.09E-05	8.21E-06	8.21E-06	4.51E-06	4.07E-07	5.88E-06	3.65E-06	3.65E-06	1.81E-06
505	258466.72	4086398.14	4.99E-06	7.22E-05	5.32E-05	5.32E-05	2.97E-05	7.58E-07	1.10E-05	8.31E-06	8.31E-06	4.57E-06	4.12E-07	5.95E-06	3.70E-06	3.70E-06	1.83E-06
506	258444.35	4086408.49	5.05E-06	7.31E-05	5.39E-05	5.39E-05	3.00E-05	7.67E-07	1.11E-05	8.41E-06	8.41E-06	4.62E-06	4.17E-07	6.02E-06	3.74E-06	3.74E-06	1.85E-06
507	259663.91	4085082.19	5.03E-06	7.27E-05	5.36E-05	5.36E-05	2.99E-05	7.63E-07	1.11E-05	8.37E-06	8.37E-06	4.60E-06	4.14E-07	5.99E-06	3.72E-06	3.72E-06	1.84E-06
508	259663.18	4085057.43	5.10E-06	7.38E-05	5.44E-05	5.44E-05	3.03E-05	7.74E-07	1.12E-05	8.49E-06	8.49E-06	4.67E-06	4.21E-07	6.08E-06	3.78E-06	3.78E-06	1.87E-06
509	259662.46	4085032.67	5.20E-06	7.52E-05	5.54E-05	5.54E-05	3.09E-05	7.89E-07	1.15E-05	8.65E-06	8.65E-06	4.76E-06	4.28E-07	6.20E-06	3.85E-06	3.85E-06	1.90E-06
510	259661.74	4085007.92	5.31E-06	7.68E-05	5.66E-05	5.66E-05	3.16E-05	8.06E-07	1.17E-05	8.84E-06	8.84E-06	4.86E-06	4.38E-07	6.33E-06	3.93E-06	3.93E-06	1.95E-06
511	259661.02	4084983.16	5.45E-06	7.88E-05	5.81E-05	5.81E-05	3.24E-05	8.27E-07	1.20E-05	9.07E-06	9.07E-06	4.99E-06	4.49E-07	6.50E-06	4.04E-06	4.04E-06	2.00E-06
512	259660.29	4084958.4	5.61E-06	8.11E-05	5.98E-05	5.98E-05	3.33E-05	8.51E-07	1.24E-05	9.34E-06	9.34E-06	5.13E-06	4.62E-07	6.69E-06	4.15E-06	4.15E-06	2.06E-06
513	259659.57	4084933.65	5.79E-06	8.37E-05	6.17E-05	6.17E-05	3.44E-05	8.79E-07	1.28E-05	9.64E-06	9.64E-06	5.30E-06	4.77E-07	6.90E-06	4.29E-06	4.29E-06	2.12E-06
514	259658.85	4084908.89	5.97E-06	8.64E-05	6.37E-05	6.37E-05	3.55E-05	9.07E-07	1.32E-05	9.94E-06	9.94E-06	5.47E-06	4.92E-07	7.12E-06	4.42E-06	4.42E-06	2.19E-06
515	259658.13	4084884.14	6.16E-06	8.91E-05	6.56E-05	6.56E-05	3.66E-05	9.35E-07	1.36E-05	1.02E-05	1.02E-05	5.63E-06	5.08E-07	7.34E-06	4.56E-06	4.56E-06	2.26E-06
516	259855.12	4085099.5	4.19E-06	6.06E-05	4.47E-05	4.47E-05	2.49E-05	6.36E-07	9.23E-06	6.97E-06	6.97E-06	3.83E-06	3.45E-07	5.00E-06	3.10E-06	3.10E-06	1.54E-06
517	259846.41	4085122.65	4.19E-06	6.06E-05	4.46E-05	4.46E-05	2.49E-05	6.36E-07	9.23E-06	6.97E-06	6.97E-06	3.83E-06	3.45E-07	4.99E-06	3.10E-06	3.10E-06	1.54E-06
518	259837.7	4085145.79	4.19E-06	6.06E-05	4.46E-05	4.46E-05	2.49E-05	6.36E-07	9.23E-06	6.97E-06	6.97E-06	3.83E-06	3.45E-07	4.99E-06	3.10E-06	3.10E-06	1.54E-06
519	259829	4085168.94	4.18E-06	6.05E-05	4.46E-05	4.46E-05	2.49E-05	6.35E-07	9.22E-06	6.96E-06	6.96E-06	3.83E-06	3.45E-07	4.99E-06	3.10E-06	3.10E-06	1.53E-06
520	259820.29	4085192.09	4.17E-06	6.04E-05	4.45E-05	4.45E-05	2.48E-05	6.33E-07	9.20E-06	6.95E-06	6.95E-06	3.82E-06	3.44E-07	4.98E-06	3.09E-06	3.09E-06	1.53E-06
521	259811.59	4085215.23	4.16E-06	6.01E-05	4.43E-05	4.43E-05	2.47E-05	6.31E-07	9.16E-06	6.92E-06	6.92E-06	3.80E-06	3.43E-07	4.95E-06	3.08E-06	3.08E-06	1.52E-06
522	259802.88	4085238.38	4.12E-06	5.97E-05	4.40E-05	4.40E-05	2.45E-05	6.26E-07	9.09E-06	6.87E-06	6.87E-06	3.77E-06	3.40E-07	4.92E-06	3.05E-06	3.05E-06	1.51E-06
523	259794.17	4085261.53	4.08E-06	5.90E-05	4.35E-05	4.35E-05	2.43E-05	6.19E-07	8.99E-06	6.79E-06	6.79E-06	3.74E-06	3.36E-07	4.87E-06	3.02E-06	3.02E-06	1.50E-06
524	259785.47	4085284.68	4.03E-06	5.82E-05	4.29E-05	4.29E-05	2.39E-05	6.11E-07	8.87E-06	6.70E-06	6.70E-06	3.68E-06	3.32E-07	4.80E-06	2.98E-06	2.98E-06	1.48E-06
525	259776.76	4085307.82	3.96E-06	5.73E-05	4.22E-05	4.22E-05	2.36E-05	6.01E-07	8.73E-06	6.60E-06	6.60E-06	3.63E-06	3.27E-07	4.72E-06	2.93E-06	2.93E-06	1.45E-06
526	259768.05	4085330.97	3.90E-06	5.63E-05	4.15E-05	4.15E-05	2.32E-05	5.91E-07	8.58E-06	6.48E-06	6.48E-06	3.56E-06	3.21E-07	4.64E-06	2.88E-06	2.88E-06	1.43E-06
527	259759.35	4085354.12	3.82E-06	5.53E-05	4.08E-05	4.08E-05	2.27E-05	5.80E-07	8.43E-06	6.36E-06	6.36E-06	3.50E-06	3.15E-07	4.56E-06	2.83E-06	2.83E-06	1.40E-06
528	259750.64	4085377.26	3.75E-06	5.43E-05	4.00E-05	4.00E-05	2.23E-05	5.70E-07	8.27E-06	6.25E-06	6.25E-06	3.44E-06	3.09E-07	4.48E-06	2.78E-06	2.78E-06	1.38E-06
529	259741.94	4085400.41	3.68E-06	5.33E-05	3.93E-05	3.93E-05	2.19E-05	5.59E-07	8.12E-06	6.13E-06	6.13E-06	3.37E-06	3.04E-07	4.39E-06	2.73E-06	2.73E-06	1.35E-06
530	259733.23	4085423.56	3.62E-06	5.23E-05	3.86E-05	3.86E-05	2.15E-05	5.49E-07	7.97E-06	6.02E-06	6.02E-06	3.31E-06	2.98E-07	4.31E-06	2.68E-06	2.68E-06	1.33E-06
531	259724.52	4085446.71	3.55E-06	5.14E-05	3.79E-05	3.79E-05	2.11E-05	5.39E-07	7.83E-06	5.91E-06	5.91E-06	3.25E-06	2.93E-07	4.24E-06	2.63E-06	2.63E-06	1.30E-06
532	259715.82	4085469.85	3.49E-06	5.05E-05	3.72E-05	3.72E-05	2.08E-05	5.30E-07	7.70E-06	5.82E-06	5.82E-06	3.20E-06	2.88E-07	4.17E-06	2.59E-06	2.59E-06	1.28E-06
533	259707.11	4085493	3.44E-06	4.97E-05	3.67E-05	3.67E-05	2.04E-05	5.22E-07	7.58E-06	5.72E-06	5.72E-06	3.15E-06	2.83E-07	4.10E-06	2.55E-06	2.55E-06	1.26E-06
534	259698.41	4085516.15	3.39E-06	4.90E-05	3.61E-05	3.61E-05	2.01E-05	5.14E-07	7.47E-06	5.64E-06	5.64E-06	3.10E-06	2.79E-07	4.04E-06	2.51E-06	2.51E-06	1.24E-06
535	259689.7	4085539.29	3.34E-06	4.83E-05	3.56E-05	3.56E-05	1.99E-05	5.07E-07	7.36E-06	5.56E-06	5.56E-06	3.06E-06	2.75E-07	3.98E-06	2.48E-06	2.48E-06	1.23E-06
536	259680.99	4085562.44	3.31E-06	4.78E-05	3.53E-05	3.53E-05	1.97E-05	5.02E-07	7.29E-06	5.50E-06	5.50E-06	3.03E-06	2.73E-07	3.94E-06	2.45E-06	2.45E-06	1.21E-06
537	259672.29	4085585.59	3.27E-06	4.73E-05	3.49E-05	3.49E-05	1.94E-05	4.96E-07	7.21E-06	5.44E-06	5.44E-06	2.99E-06	2.70E-07	3.90E-06	2.42E-06	2.42E-06	1.20E-06
538	259663.58	4085608.73	3.24E-06	4.69E-05	3.45E-05	3.45E-05	1.93E-05	4.92E-07	7.14E-06	5.39E-06	5.39E-06	2.96E-06	2.67E-07	3.86E-06	2.40E-06	2.40E-06	1.19E-06
539	259654.88	4085631.88	3.21E-06	4.65E-05	3.43E-05	3.43E-05	1.91E-05	4.88E-07	7.08E-06	5.35E-06	5.35E-06	2.94E-06	2.65E-07	3.83E-06	2.38E-06	2.38E-06	1.18E-06
540	259646.17	4085655.03	3.19E-06	4.61E-05	3.40E-05	3.40E-05	1.90E-05	4.84E-07	7.03E-06	5.31E-06	5.31E-06	2.92E-06	2.63E-07	3.80E-06	2.36E-06	2.36E-06	1.17E-06
541	259637.46	4085678.18	3.17E-06	4.58E-05	3.38E-05	3.38E-05	1.88E-05	4.81E-07	6.98E-06	5.27E-06	5.27E-06	2.90E-06	2.61E-07	3.78E-06	2.35E-06	2.35E-06	1.16E-06
542	259628.76	4085701.32	3.15E-06	4.55E-05	3.35E-05	3.35E-05	1.87E-05	4.77E-07	6.93E-06	5.24E-06	5.24E-06	2.88E-06	2.59E-07	3.75E-06	2.33E-06	2.33E-06	1.15E-06
543	259620.05	4085724.47	3.12E-06	4.52E-05	3.33E-05	3.33E-05	1.86E-05	4.74E-07	6.88E-06	5.20E-06	5.20E-06	2.86E-06	2.57E-07	3.72E-06	2.31E-06	2.31E-06	1.14E-06
544	259611.35	4085747.62	3.09E-06	4.48E-05	3.30E-05	3.30E-05	1.84E-05	4.70E-07	6.82E-06	5.15E-06	5.15E-06	2.83E-06	2.55E-07	3.69E-06	2.29E-06	2.29E-06	1.13E-06
545	259602.64	4085770.76	3.07E-06	4.45E-05	3.28E-05	3.28E-05	1.83E-05	4.66E-07	6.77E-06	5.12E-06	5.12E-06	2.81E-06	2.53E-07	3.66E-06	2.28E-06	2.28E-06	1.13E-06
546	259593.93	4085793.91	3.05E-06	4.41E-05	3.25E-05	3.25E-05	1.81E-05	4.63E-07	6.72E-06	5.08E-06	5.08E-06	2.79E-06	2.51E-07	3.64E-06	2.26E-06	2.26E-06	1.12E-06
547	259585.23	4085817.06	3.03E-06	4.38E-05	3.23E-05	3.23E-05	1.80E-05	4.59E-07	6.67E-06	5.04E-06	5.04E-06	2.77E-06	2.49E-07	3.61E-06	2.24E-06	2.24E-06	1.11E-06
548	259576.52	4085840.21	3.00E-06	4.34E-05	3.20E-05	3.20E-05	1.78E-05	4.56E-07	6.61E-06	5.00E-06	5.00E-06	2.75E-06	2.47E-07	3.58E-06	2.22E-06	2.22E-06	1.10E-06
549	259567.82	4085863.35	2.97E-06	4.30E-05	3.17E-05	3.17E-05	1.77E-05	4.51E-07	6.55E-06	4.95E-06	4.95E-06	2.72E-06	2.45E-07	3.54E-06	2.20E-06	2.20E-06	1.09E-06
550	259559.11	4085886.5	2.94E-06	4.25E-05	3.13E-05	3.13E-05	1.75E-05	4.46E-07	6.48E-06	4.89E-06	4.89E-06	2.69E-06	2.42E-07	3.51E-06	2.18E-06	2.18E-06	1.08E-06
551	259550.4	4085909.65	2.91E-06	4.20E-05	3.10E-05	3.10E-05	1.73E-05	4.41E-07	6.40E-06	4.84E-06	4.84E-06	2.66E-06	2.40E-07	3.46E-06	2.15E-06	2.15E-06	1.07E-06
552	259541.7	4085932.79	2.87E-06	4.15E-05	3.06E-05	3.06E-05	1.71E-05	4.35E-07	6.32E-06	4.78E-06	4.78E-06	2.63E-06	2.36E-07	3.42E-06	2.12E-06	2.12E-06	1.05E-06
553	259532.99	4085955.94	2.83E-06	4.09E-05	3.02E-05	3.02E-05	1.68E-05	4.29E-07	6.24E-06	4.71E-06	4.71E-06	2.59E-06	2.33E-07	3.37E-06	2.10E-06	2.10E-06	1.04E-06
554	259524.29	4085979.09	2.79E-06	4.04E-05	2.98E-05	2.98E-05	1.66E-05	4.24E-07	6.15E-06	4.65E-06	4.65E-06	2.55E-06	2.30E-07	3.33E-06	2.07E-06	2.07E-06	1.02E-06
555	259515.58	4086002.24	2.75E-06	3.98E-05	2.94E-05	2.94E-05	1.64E-05	4.18E-07	6.07E-06	4.58E-06	4.58E-06	2.52E-06	2.27E-07	3.28E-06	2.04E-06	2.04E-06	1.01E-06
556	259506.87	4086025.38	2.72E-06	3.93E-05	2.90E-05	2.90E-05	1.62E-05	4.13E-07	5.99E-06	4.53E-06	4.53E-06	2.49E-06	2.24E-07	3.24E-06	2.01E-06	2.01E-06	9.97E-07
557	259498.17	4086048.53	2.69E-06	3.89E-05	2.86E-05	2.86E-05	1.60E-05	4.08E-07	5.92E-06	4.47E-06	4.47E-06	2.46E-06	2.21E-07	3.20E-06	1.99E-06	1.99E-06	9.85E-07
558	259489.46	4086071.68	2.66E-06	3.85E-05	2.84E-05	2.84E-05	1.58E-05	4.04E-07	5.86E-06	4.43E-06	4.43E-06	2.43E-06	2.19E-07	3.17E-06	1.97E-06	1.97E-06	9.75E-07
559	259480.75	4086094.82	2.64E-06	3.81E-05	2.81E-05	2.81E-05	1.57E-05	4.00E-07	5.81E-06	4.39E-06	4.39E-06	2.41E-06	2.17E-07	3.14E-06	1.95E-06	1.95E-06	9.66E-07
560	259472.05	4086117.97	2.61E-06	3.78E-05	2.79E-05	2.79E-05	1.55E-05	3.97E-07	5.76E-06	4.35E-06	4.35E-06	2.39E-06	2.15E-07	3.11E-06	1.93E-06	1.93E-06	9.58E-07
561	259440.9	4086151.5	2.61E-06	3.78E-05	2.79E-05	2.79E-05	1.55E-05	3.97E-07	5.76E-06	4.35E-06	4.35E-06	2.39E-06	2.16E-07	3.12E-06	1.94E-06	1.94E-06	9.58E-07
562	259418.45	4086161.88	2.64E-06	3.82E-05	2.81E-05	2.81E-05	1.57E-05	4.01E-07	5.82E-06	4.39E-06	4.39E-06	2.42E-06	2.18E-07	3.15E-06	1.95E-06	1.95E-06	9.67E-07
563	259396.01	4086172.26	2.67E-06	3.86E-05	2.84E-05	2.84E-05	1.58E-05	4.05E-07	5.87E-06	4.44E-06	4.44E-06	2.44E-06	2.20E-07	3.18E-06	1.97E-06	1.97E-06	9.77E-07
564	259373.56	4086182.64	2.69E-06	3.89E-05	2.87E-05	2.87E-05	1.60E-05	4.09E-07	5.93E-06	4.48E-06	4.48E-06	2.46E-06	2.22E-07	3.21E-06	1.99E-06	1.99E-06	9.87E-07
565	259351.11	4086193.02	2.72E-06	3.94E-05	2.90E-05	2.90E-05	1.62E-05	4.13E-07	6.00E-06	4.53E-06	4.53E-06	2.49E-06	2.24E-07	3.24E-06	2.02E-06	2.02E-06	9.98E-07
566	259328.67	4086203.4	2.75E-06	3.97E-05	2.93E-05	2.93E-05	1.63E-05	4.17E-07	6.05E-06	4.57E-06	4.57E-06	2.51E-06	2.26E-07	3.28E-06	2.03E-06	2.03E-06	1.01E-06
567	259306.22	4086213.78	2.78E-06	4.02E-05	2.96E-05	2.96E-05	1.65E-05	4.21E-07	6.12E-06	4.62E-06	4.62E-06	2.54E-06	2.29E-07	3.31E-06	2.06E-06	2.06E-06	1.02E-06
568	259283.78	4086224.17	2.81E-06	4.06E-05	2.99E-05	2.99E-05	1.67E-05	4.26E-07	6.18E-06	4.67E-06	4.67E-06	2.57E-06	2.31E-07	3.34E-06	2.08E-06	2.08E-06	1.03E-06
569	259261.33	4086234.55	2.84E-06	4.10E-05	3.02E-05	3.02E-05	1.69E-05	4.30E-07	6.25E-06	4.72E-06	4.72E-06	2.60E-06	2.34E-07	3.38E-06	2.10E-06	2.10E-06	1.04E-06
570	259238.88	4086244.93	2.87E-06	4.15E-05	3.06E-05	3.06E-05	1.71E-05	4.35E-07	6.32E-06	4.78E-06	4.78E-06	2.63E-06	2.36E-07	3.42E-06	2.12E-06	2.12E-06	1.05E-06
571	259216.44	4086255.31	2.90E-06	4.20E-05	3.10E-05	3.10E-05	1.73E-05	4.41E-07	6.40E-06	4.83E-06	4.83E-06	2.66E-06	2.39E-07	3.46E-06	2.15E-06	2.15E-06	1.06E-06
572	259193.99	4086265.69	2.94E-06	4.25E-05	3.13E-05	3.13E-05	1.75E-05	4.46E-07	6.48E-06	4.89E-06	4.89E-06	2.69E-06	2.42E-07	3.51E-06	2.18E-06	2.18E-06	1.08E-06
573	259171.55	4086276.07	2.98E-06	4.31E-05	3.18E-05	3.18E-05	1.77E-05	4.52E-07	6.57E-06	4.96E-06	4.96E-06	2.73E-06	2.46E-07	3.55E-06	2.21E-06	2.21E-06	1.09E-06
574	259149.1	4086286.45	3.03E-06	4.38E-05	3.23E-05	3.23E-05	1.80E-05	4.59E-07	6.67E-06	5.04E-06	5.04E-06	2.77E-06	2.49E-07	3.61E-06	2.24E-06	2.24E-06	1.11E-06
575	259126.65	4086296.83	3.08E-06	4.45E-05	3.28E-05	3.28E-05	1.83E-05	4.67E-07	6.78E-06	5.12E-06	5.12E-06	2.81E-06	2.54E-07	3.67E-06	2.28E-06	2.28E-06	1.13E-06
576	259104.21	4086307.21	3.13E-06	4.53E-05	3.34E-05	3.34E-05	1.86E-05	4.75E-07	6.90E-06	5.21E-06	5.21E-06	2.87E-06	2.58E-07	3.73E-06	2.32E-06	2.32E-06	1.15E-06
577	259081.76	4086317.59	3.19E-06	4.62E-05	3.40E-05	3.40E-05	1.90E-05	4.85E-07	7.03E-06	5.31E-06	5.31E-06	2.92E-06	2.63E-07	3.81E-06	2.36E-06	2.36E-06	1.17E-06
578	259059.32	4086327.97	3.26E-06	4.71E-05	3.47E-05	3.47E-05	1.94E-05	4.94E-07	7.18E-06	5.42E-06	5.42E-06	2.98E-06	2.69E-07	3.88E-06	2.41E-06	2.41E-06	1.19E-06
579	259036.87	4086338.36	3.33E-06	4.81E-05	3.55E-05	3.55E-05	1.98E-05	5.05E-07	7.33E-06	5.54E-06	5.54E-06	3.05E-06	2.74E-07	3.97E-06	2.46E-06	2.46E-06	1.22E-06
580	259014.42	4086348.74	3.40E-06	4.92E-05	3.62E-05	3.62E-05	2.02E-05	5.16E-07	7.49E-06	5.66E-06	5.66E-06	3.11E-06	2.80E-07	4.05E-06	2.52E-06	2.52E-06	1.25E-06
581	258991.98	4086359.12	3.47E-06	5.02E-05	3.70E-05	3.70E-05	2.06E-05	5.27E-07	7.65E-06	5.78E-06	5.78E-06	3.18E-06	2.86E-07	4.14E-06	2.57E-06	2.57E-06	1.27E-06

582	258969.53	4086369.5	3.54E-06	5.12E-05	3.77E-05	3.77E-05	2.10E-05	5.37E-07	7.80E-06	5.89E-06	5.89E-06	3.24E-06	2.92E-07	4.22E-06	2.62E-06	2.62E-06	1.30E-06
583	258947.09	4086379.88	3.60E-06	5.21E-05	3.84E-05	3.84E-05	2.14E-05	5.47E-07	7.94E-06	6.00E-06	6.00E-06	3.30E-06	2.97E-07	4.29E-06	2.67E-06	2.67E-06	1.32E-06
584	258924.64	4086390.26	3.66E-06	5.29E-05	3.90E-05	3.90E-05	2.17E-05	5.55E-07	8.05E-06	6.08E-06	6.08E-06	3.35E-06	3.01E-07	4.36E-06	2.71E-06	2.71E-06	1.34E-06
585	258902.19	4086400.64	3.70E-06	5.35E-05	3.95E-05	3.95E-05	2.20E-05	5.62E-07	8.15E-06	6.16E-06	6.16E-06	3.39E-06	3.05E-07	4.41E-06	2.74E-06	2.74E-06	1.36E-06
586	258879.75	4086411.02	3.74E-06	5.41E-05	3.98E-05	3.98E-05	2.22E-05	5.67E-07	8.24E-06	6.22E-06	6.22E-06	3.42E-06	3.08E-07	4.46E-06	2.77E-06	2.77E-06	1.37E-06
587	258857.3	4086421.4	3.77E-06	5.45E-05	4.02E-05	4.02E-05	2.24E-05	5.72E-07	8.30E-06	6.27E-06	6.27E-06	3.45E-06	3.10E-07	4.49E-06	2.79E-06	2.79E-06	1.38E-06
588	258834.86	4086431.78	3.79E-06	5.48E-05	4.04E-05	4.04E-05	2.25E-05	5.75E-07	8.35E-06	6.31E-06	6.31E-06	3.47E-06	3.12E-07	4.52E-06	2.81E-06	2.81E-06	1.39E-06
589	258812.41	4086442.16	3.81E-06	5.51E-05	4.06E-05	4.06E-05	2.26E-05	5.78E-07	8.39E-06	6.34E-06	6.34E-06	3.49E-06	3.14E-07	4.54E-06	2.82E-06	2.82E-06	1.40E-06
590	258789.97	4086452.55	3.83E-06	5.53E-05	4.08E-05	4.08E-05	2.27E-05	5.81E-07	8.43E-06	6.37E-06	6.37E-06	3.50E-06	3.15E-07	4.56E-06	2.83E-06	2.83E-06	1.40E-06
591	258767.52	4086462.93	3.84E-06	5.56E-05	4.10E-05	4.10E-05	2.28E-05	5.83E-07	8.47E-06	6.40E-06	6.40E-06	3.52E-06	3.17E-07	4.58E-06	2.85E-06	2.85E-06	1.41E-06
592	258745.07	4086473.31	3.86E-06	5.59E-05	4.12E-05	4.12E-05	2.30E-05	5.86E-07	8.51E-06	6.43E-06	6.43E-06	3.53E-06	3.18E-07	4.61E-06	2.86E-06	2.86E-06	1.42E-06
593	258722.63	4086483.69	3.88E-06	5.62E-05	4.14E-05	4.14E-05	2.31E-05	5.89E-07	8.56E-06	6.46E-06	6.46E-06	3.55E-06	3.20E-07	4.63E-06	2.88E-06	2.88E-06	1.42E-06
594	258700.18	4086494.07	3.91E-06	5.65E-05	4.16E-05	4.16E-05	2.32E-05	5.93E-07	8.61E-06	6.50E-06	6.50E-06	3.57E-06	3.22E-07	4.66E-06	2.89E-06	2.89E-06	1.43E-06
595	258677.74	4086504.45	3.93E-06	5.69E-05	4.19E-05	4.19E-05	2.34E-05	5.97E-07	8.66E-06	6.55E-06	6.55E-06	3.60E-06	3.24E-07	4.69E-06	2.91E-06	2.91E-06	1.44E-06
596	258655.29	4086514.83	3.96E-06	5.73E-05	4.22E-05	4.22E-05	2.36E-05	6.01E-07	8.73E-06	6.60E-06	6.60E-06	3.63E-06	3.27E-07	4.72E-06	2.93E-06	2.93E-06	1.45E-06
597	258632.84	4086525.21	4.00E-06	5.78E-05	4.26E-05	4.26E-05	2.37E-05	6.06E-07	8.80E-06	6.65E-06	6.65E-06	3.66E-06	3.29E-07	4.76E-06	2.96E-06	2.96E-06	1.46E-06
598	258610.4	4086535.59	4.03E-06	5.83E-05	4.30E-05	4.30E-05	2.40E-05	6.12E-07	8.88E-06	6.71E-06	6.71E-06	3.69E-06	3.32E-07	4.81E-06	2.98E-06	2.98E-06	1.48E-06
599	258587.95	4086545.97	4.07E-06	5.89E-05	4.34E-05	4.34E-05	2.42E-05	6.18E-07	8.97E-06	6.77E-06	6.77E-06	3.72E-06	3.35E-07	4.85E-06	3.01E-06	3.01E-06	1.49E-06
600	258565.51	4086556.36	4.11E-06	5.95E-05	4.38E-05	4.38E-05	2.44E-05	6.24E-07	9.06E-06	6.84E-06	6.84E-06	3.76E-06	3.39E-07	4.90E-06	3.04E-06	3.04E-06	1.51E-06
601	258543.06	4086566.74	4.15E-06	6.01E-05	4.43E-05	4.43E-05	2.47E-05	6.30E-07	9.15E-06	6.91E-06	6.91E-06	3.80E-06	3.42E-07	4.95E-06	3.08E-06	3.08E-06	1.52E-06
602	258520.61	4086577.12	4.20E-06	6.07E-05	4.47E-05	4.47E-05	2.49E-05	6.37E-07	9.25E-06	6.99E-06	6.99E-06	3.84E-06	3.46E-07	5.00E-06	3.11E-06	3.11E-06	1.54E-06
603	258498.17	4086587.5	4.24E-06	6.13E-05	4.52E-05	4.52E-05	2.52E-05	6.43E-07	9.34E-06	7.06E-06	7.06E-06	3.88E-06	3.49E-07	5.05E-06	3.14E-06	3.14E-06	1.55E-06
604	258475.72	4086597.88	4.28E-06	6.19E-05	4.56E-05	4.56E-05	2.54E-05	6.50E-07	9.43E-06	7.12E-06	7.12E-06	3.92E-06	3.53E-07	5.10E-06	3.17E-06	3.17E-06	1.57E-06
605	258453.28	4086608.26	4.32E-06	6.25E-05	4.60E-05	4.60E-05	2.57E-05	6.56E-07	9.52E-06	7.19E-06	7.19E-06	3.95E-06	3.56E-07	5.15E-06	3.20E-06	3.20E-06	1.58E-06
606	259863.82	4085076.35	4.20E-06	6.07E-05	4.47E-05	4.47E-05	2.49E-05	6.37E-07	9.25E-06	6.99E-06	6.99E-06	3.84E-06	3.46E-07	5.00E-06	3.11E-06	3.11E-06	1.54E-06
607	259863.1	4085051.6	4.25E-06	6.14E-05	4.53E-05	4.53E-05	2.52E-05	6.45E-07	9.36E-06	7.07E-06	7.07E-06	3.89E-06	3.50E-07	5.06E-06	3.15E-06	3.15E-06	1.56E-06
608	259862.38	4085026.84	4.31E-06	6.24E-05	4.60E-05	4.60E-05	2.56E-05	6.55E-07	9.50E-06	7.18E-06	7.18E-06	3.95E-06	3.56E-07	5.14E-06	3.19E-06	3.19E-06	1.58E-06
609	259861.65	4085002.08	4.40E-06	6.36E-05	4.69E-05	4.69E-05	2.61E-05	6.68E-07	9.69E-06	7.32E-06	7.32E-06	4.03E-06	3.63E-07	5.25E-06	3.26E-06	3.26E-06	1.61E-06
610	259860.93	4084977.33	4.50E-06	6.51E-05	4.80E-05	4.80E-05	2.68E-05	6.84E-07	9.92E-06	7.50E-06	7.50E-06	4.12E-06	3.71E-07	5.37E-06	3.34E-06	3.34E-06	1.65E-06
611	259860.21	4084952.57	4.62E-06	6.69E-05	4.93E-05	4.93E-05	2.75E-05	7.02E-07	1.02E-05	7.69E-06	7.69E-06	4.23E-06	3.81E-07	5.51E-06	3.42E-06	3.42E-06	1.69E-06
612	259859.49	4084927.81	4.76E-06	6.88E-05	5.07E-05	5.07E-05	2.83E-05	7.22E-07	1.05E-05	7.92E-06	7.92E-06	4.35E-06	3.92E-07	5.67E-06	3.52E-06	3.52E-06	1.74E-06
613	259858.76	4084903.06	4.90E-06	7.08E-05	5.22E-05	5.22E-05	2.91E-05	7.43E-07	1.08E-05	8.15E-06	8.15E-06	4.48E-06	4.04E-07	5.84E-06	3.63E-06	3.63E-06	1.80E-06
614	259858.04	4084878.3	5.04E-06	7.29E-05	5.37E-05	5.37E-05	2.99E-05	7.65E-07	1.11E-05	8.39E-06	8.39E-06	4.61E-06	4.15E-07	6.01E-06	3.73E-06	3.73E-06	1.85E-06
615	258357.65	4084897.08	4.89E-04	7.07E-03	5.21E-03	5.21E-03	2.90E-03	7.42E-05	1.08E-03	8.14E-04	8.14E-04	4.47E-04	4.03E-05	5.83E-04	3.62E-04	3.62E-04	1.79E-04
616	258333.32	4084898.08	5.12E-04	7.40E-03	5.45E-03	5.45E-03	3.04E-03	7.77E-05	1.13E-03	8.52E-04	8.52E-04	4.68E-04	4.22E-05	6.10E-04	3.79E-04	3.79E-04	1.88E-04
617	258308.99	4084899.08	5.24E-04	7.57E-03	5.58E-03	5.58E-03	3.11E-03	7.95E-05	1.15E-03	8.71E-04	8.71E-04	4.79E-04	4.32E-05	6.24E-04	3.88E-04	3.88E-04	1.92E-04
618	258284.66	4084900.08	5.31E-04	7.68E-03	5.66E-03	5.66E-03	3.16E-03	8.06E-05	1.17E-03	8.84E-04	8.84E-04	4.86E-04	4.38E-05	6.33E-04	3.93E-04	3.93E-04	1.95E-04
619	258260.33	4084901.08	5.37E-04	7.76E-03	5.72E-03	5.72E-03	3.19E-03	8.15E-05	1.18E-03	8.94E-04	8.94E-04	4.91E-04	4.42E-05	6.40E-04	3.98E-04	3.98E-04	1.97E-04
620	258235.99	4084902.08	5.41E-04	7.82E-03	5.76E-03	5.76E-03	3.21E-03	8.20E-05	1.19E-03	9.00E-04	9.00E-04	4.95E-04	4.46E-05	6.45E-04	4.00E-04	4.00E-04	1.98E-04
621	258211.66	4084903.08	5.43E-04	7.85E-03	5.79E-03	5.79E-03	3.23E-03	8.24E-05	1.20E-03	9.04E-04	9.04E-04	4.97E-04	4.47E-05	6.47E-04	4.02E-04	4.02E-04	1.99E-04
622	258187.33	4084904.08	5.44E-04	7.87E-03	5.80E-03	5.80E-03	3.23E-03	8.26E-05	1.20E-03	9.06E-04	9.06E-04	4.98E-04	4.48E-05	6.49E-04	4.03E-04	4.03E-04	1.99E-04
623	258163	4084905.08	5.44E-04	7.87E-03	5.80E-03	5.80E-03	3.23E-03	8.26E-05	1.20E-03	9.06E-04	9.06E-04	4.98E-04	4.49E-05	6.49E-04	4.03E-04	4.03E-04	1.99E-04
624	258138.67	4084906.08	5.44E-04	7.86E-03	5.80E-03	5.80E-03	3.23E-03	8.25E-05	1.20E-03	9.05E-04	9.05E-04	4.98E-04	4.48E-05	6.48E-04	4.03E-04	4.03E-04	1.99E-04
625	258114.33	4084907.08	5.43E-04	7.85E-03	5.79E-03	5.79E-03	3.23E-03	8.24E-05	1.20E-03	9.04E-04	9.04E-04	4.97E-04	4.48E-05	6.47E-04	4.02E-04	4.02E-04	1.99E-04
626	258090	4084908.08	5.42E-04	7.83E-03	5.77E-03	5.77E-03	3.22E-03	8.22E-05	1.19E-03	9.02E-04	9.02E-04	4.96E-04	4.46E-05	6.46E-04	4.01E-04	4.01E-04	1.99E-04
627	258065.67	4084909.08	5.40E-04	7.81E-03	5.75E-03	5.75E-03	3.21E-03	8.19E-05	1.19E-03	8.98E-04	8.98E-04	4.94E-04	4.45E-05	6.44E-04	4.00E-04	4.00E-04	1.98E-04
628	258041.34	4084910.09	5.38E-04	7.77E-03	5.73E-03	5.73E-03	3.19E-03	8.16E-05	1.18E-03	8.95E-04	8.95E-04	4.92E-04	4.43E-05	6.41E-04	3.98E-04	3.98E-04	1.97E-04
629	258017.01	4084911.09	5.35E-04	7.73E-03	5.70E-03	5.70E-03	3.18E-03	8.12E-05	1.18E-03	8.90E-04	8.90E-04	4.89E-04	4.41E-05	6.38E-04	3.96E-04	3.96E-04	1.96E-04
630	257992.68	4084912.09	5.31E-04	7.69E-03	5.67E-03	5.67E-03	3.16E-03	8.06E-05	1.17E-03	8.85E-04	8.85E-04	4.86E-04	4.38E-05	6.34E-04	3.94E-04	3.94E-04	1.95E-04
631	257968.34	4084913.09	5.27E-04	7.63E-03	5.62E-03	5.62E-03	3.13E-03	8.00E-05	1.16E-03	8.78E-04	8.78E-04	4.83E-04	4.35E-05	6.29E-04	3.91E-04	3.91E-04	1.93E-04
632	257944.01	4084914.09	5.23E-04	7.56E-03	5.57E-03	5.57E-03	3.11E-03	7.93E-05	1.15E-03	8.70E-04	8.70E-04	4.78E-04	4.31E-05	6.23E-04	3.87E-04	3.87E-04	1.92E-04
633	257919.68	4084915.09	5.17E-04	7.48E-03	5.51E-03	5.51E-03	3.07E-03	7.84E-05	1.14E-03	8.60E-04	8.60E-04	4.73E-04	4.26E-05	6.16E-04	3.83E-04	3.83E-04	1.89E-04
634	257895.35	4084916.09	5.10E-04	7.38E-03	5.44E-03	5.44E-03	3.03E-03	7.74E-05	1.12E-03	8.49E-04	8.49E-04	4.67E-04	4.20E-05	6.08E-04	3.78E-04	3.78E-04	1.87E-04
635	257871.02	4084917.09	5.02E-04	7.26E-03	5.35E-03	5.35E-03	2.98E-03	7.62E-05	1.11E-03	8.35E-04	8.35E-04	4.59E-04	4.14E-05	5.98E-04	3.72E-04	3.72E-04	1.84E-04
636	257846.68	4084918.09	4.92E-04	7.11E-03	5.24E-03	5.24E-03	2.92E-03	7.46E-05	1.08E-03	8.19E-04	8.19E-04	4.50E-04	4.05E-05	5.86E-04	3.64E-04	3.64E-04	1.80E-04
637	257822.35	4084919.09	4.80E-04	6.94E-03	5.12E-03	5.12E-03	2.85E-03	7.29E-05	1.06E-03	7.99E-04	7.99E-04	4.39E-04	3.96E-05	5.72E-04	3.55E-04	3.55E-04	1.76E-04
638	257798.02	4084920.09	4.66E-04	6.73E-03	4.96E-03	4.96E-03	2.77E-03	7.07E-05	1.03E-03	7.75E-04	7.75E-04	4.26E-04	3.84E-05	5.55E-04	3.45E-04	3.45E-04	1.71E-04
639	257773.69	4084921.09	4.48E-04	6.48E-03	4.78E-03	4.78E-03	2.66E-03	6.80E-05	9.88E-04	7.46E-04	7.46E-04	4.10E-04	3.70E-05	5.34E-04	3.32E-04	3.32E-04	1.64E-04
640	257749.36	4084922.09	4.28E-04	6.18E-03	4.56E-03	4.56E-03	2.54E-03	6.49E-05	9.42E-04	7.12E-04	7.12E-04	3.91E-04	3.52E-05	5.10E-04	3.17E-04	3.17E-04	1.57E-04
641	257725.03	4084923.09	4.02E-04	5.82E-03	4.29E-03	4.29E-03	2.39E-03	6.11E-05	8.87E-04	6.70E-04	6.70E-04	3.68E-04	3.32E-05	4.80E-04	2.98E-04	2.98E-04	1.47E-04
642	257700.69	4084924.09	3.72E-04	5.38E-03	3.96E-03	3.96E-03	2.21E-03	5.64E-05	8.19E-04	6.19E-04	6.19E-04	3.40E-04	3.06E-05	4.43E-04	2.75E-04	2.75E-04	1.36E-04
643	257676.36	4084925.09	3.34E-04	4.83E-03	3.56E-03	3.56E-03	1.99E-03	5.07E-05	7.36E-04	5.56E-04	5.56E-04	3.06E-04	2.75E-05	3.98E-04	2.47E-04	2.47E-04	1.23E-04
644	257652.03	4084926.09	2.88E-04	4.17E-03	3.07E-03	3.07E-03	1.71E-03	4.37E-05	6.35E-04	4.80E-04	4.80E-04	2.64E-04	2.38E-05	3.44E-04	2.13E-04	2.13E-04	1.06E-04
645	257627.7	4084927.09	2.32E-04	3.35E-03	2.47E-03	2.47E-03	1.38E-03	3.51E-05	5.10E-04	3.85E-04	3.85E-04	2.12E-04	1.91E-05	2.76E-04	1.72E-04	1.72E-04	8.49E-05
646	257603.37	4084928.09	1.66E-04	2.40E-03	1.77E-03	1.77E-03	9.84E-04	2.51E-05	3.65E-04	2.76E-04	2.76E-04	1.52E-04	1.37E-05	1.97E-04	1.23E-04	1.23E-04	6.07E-05
647	257579.03	4084929.09	1.04E-04	1.50E-03	1.10E-03	1.10E-03	6.15E-04	1.57E-05	2.28E-04	1.72E-04	1.72E-04	9.47E-05	8.53E-06	1.23E-04	7.67E-05	7.67E-05	3.79E-05
648	257554.7	4084930.09	7.00E-05	1.01E-03	7.46E-04	7.46E-04	4.16E-04	1.06E-05	1.54E-04	1.16E-04	1.16E-04	6.40E-05	5.77E-06	8.34E-05	5.18E-05	5.18E-05	2.57E-05
649	258374.7	4084878.79	3.63E-04	5.25E-03	3.87E-03	3.87E-03	2.16E-03	5.51E-05	8.00E-04	6.04E-04	6.04E-04	3.32E-04	2.99E-05	4.33E-04	2.69E-04	2.69E-04	1.33E-04
650	258332.29	4084873.1	3.56E-04	5.14E-03	3.79E-03	3.79E-03	2.11E-03	5.40E-05	7.84E-04	5.92E-04	5.92E-04	3.25E-04	2.93E-05	4.24E-04	2.63E-04	2.63E-04	1.30E-04
651	258307.96	4084874.1	3.62E-04	5.23E-03	3.86E-03	3.86E-03	2.15E-03	5.49E-05	7.97E-04	6.02E-04	6.02E-04	3.31E-04	2.98E-05	4.31E-04	2.68E-04	2.68E-04	1.33E-04
652	258283.63	4084875.1	3.66E-04	5.29E-03	3.90E-03	3.90E-03	2.17E-03	5.55E-05	8.06E-04	6.09E-04	6.09E-04	3.35E-04	3.01E-05	4.36E-04	2.71E-04	2.71E-04	1.34E-04
653	258259.3	4084876.1	3.69E-04	5.33E-03	3.93E-03	3.93E-03	2.19E-03	5.59E-05	8.12E-04	6.13E-04	6.13E-04	3.37E-04	3.04E-05	4.39E-04	2.73E-04	2.73E-04	1.35E-04
654	258234.97	4084877.1	3.70E-04	5.36E-03	3.95E-03	3.95E-03	2.20E-03	5.62E-05	8.16E-04	6.17E-04	6.17E-04	3.39E-04	3.05E-05	4.42E-04	2.74E-04	2.74E-04	1.36E-04
655	258210.64	4084878.1	3.72E-04	5.38E-03	3.96E-03	3.96E-03	2.21E-03	5.64E-05	8.19E-04	6.19E-04	6.19E-04	3.40E-04	3.06E-05	4.43E-04	2.75E-04	2.75E-04	1.36E-04
656	258186.3	4084879.1	3.72E-04	5.39E-03	3.97E-03	3.97E-03	2.21E-03	5.65E-05	8.20E-04	6.20E-04	6.20E-04	3.41E-04	3.07E-05	4.44E-04	2.76E-04	2.76E-04	1.36E-04
657	258161.97	4084880.1	3.72E-04	5.39E-03	3.97E-03	3.97E-03	2.21E-03	5.65E-05	8.21E-04	6.20E-04	6.20E-04	3.41E-04	3.07E-05	4.44E-04	2.76E-04	2.76E-04	1.37E-04
658	258137.64	4084881.1	3.72E-04	5.38E-03	3.97E-03	3.97E-03	2.21E-03	5.65E-05	8.20E-04	6.19E-04	6.19E-04	3.40E-04	3.07E-05	4.44E-04	2.76E-04	2.76E-04	1.36E-04
659	258113.31	4084882.11	3.71E-04	5.37E-03	3.96E-03	3.96E-03	2.21E-03	5.63E-05	8.18E-04	6.18E-04	6.18E-04	3.40E-04	3.06E-05	4.43E-04	2.75E-04	2.75E-04	1.36E-04
660	258088.98	4084883.11	3.70E-04	5.35E-03	3.94E-03	3.94E-03	2.20E-03	5.61E-05	8.15E-04	6.16E-04	6.16E-04	3.39E-04	3.05E-05	4.41E-04	2.74E-04	2.74E-04	1.36E-04
661	258064.64	4084884.11	3.68E-04	5.32E-03	3.92E-03	3.92E-03	2.19E-03	5.59E-05	8.11E-04	6.13E-04	6.13E-04	3.37E-04	3.03E-05	4.39E-04	2.73E-04	2.73E-04	1.35E-04
662	258040.31	4084885.11	3.66E-04	5.29E-03	3.90E-03	3.90E-03	2.17E-03	5.55E-05	8.06E-04	6.09E-04	6.09E-04	3.35E-04	3.01E-05	4.36E-04	2.71E-04	2.71E-04	1.34E-04
663	258015.98	4084886.11	3.63E-04	5.25E-03	3.87E-03	3.87E-03	2.16E-03	5.51E-05	7.99E-04	6.04E-04	6.04E-04	3.32E-04	2.99E-05	4.32E-04	2.69E-04	2.69E-04	1.33E-04
664	257991.65	4084887.11	3.59E-04	5.19E-03	3.83E-03	3.83E-03	2.13E-03	5.45E-05	7.91E-04	5.98E-04	5.98E-04	3.29E-04	2.96E-05	4.28E-04	2.66E-04	2.66E-04	1.32E-04
665	257967.32	4084888.11	3.55E-04	5.13E-03	3.78E-03	3.78E-03	2.11E-03	5.39E-05	7.82E-04	5.91E-04	5.91E-04	3.25E-04	2.92E-05	4.23E-04	2.63E-04	2.63E-04	1.30E-04
666	257942.99	4084889.11	3.50E-04	5.06E-03	3.73E-03	3.73E-03	2.08E-03	5.31E-05	7.71E-04	5.82E-04	5.82E-04	3.20E-04	2.88E-05	4.17E-04	2.59E-04	2.59E-04	1.28E-04
667	257918.65	4084890.11	3.44E-04	4.97E-03	3.66E-03	3.66E-03	2.04E-03	5.22E-05	7.57E-04	5.72E-04	5.72E-04	3.15E-04	2.83E-05	4.10E-04	2.55E-04	2.55E-04	1.26E-04
668	257894.32	4084891.11	3.37E-04	4.87E-03	3.59E-03	3.59E-03	2.00E-03	5.11E-05	7.42E-04	5.60E-04	5.60E-04	3.08E-04	2.78E-05	4.01E-04	2.49E-04	2.49E-04	1.23E-04
669	257869.99	4084892.11	3.28E-04	4.75E-03	3.50E-03	3.50E-03	1.95E-03	4.98E-05	7.24E-04	5.47E-04	5.47E-04	3.01E-04	2.71E-05	3.92E-04	2.43E-04	2.43E-04	1.20E-04
670	257845.66	4084893.11	3.19E-04	4.61E-03	3.40E-03	3.40E-03	1.89E-03	4.84E-05	7.02E-04	5.30E-04	5.30E-04	2.92E-04	2.63E-05	3.80E-04	2.36E-04	2.36E-04	1.17E-04
671	257821.33	4084894.11	3.07E-04	4.44E-03	3.27E-03	3.27E-03	1.83E-03	4.66E-05	6.77E-04	5.11E-04	5.11E-04	2.81E-04	2.53E-05	3.66E-04	2.27E-04	2.27E-04	1.13E-04
672	257796.99	4084895.11	2.94E-04	4.25E-03	3.13E-03	3.13E-03	1.74E-03	4.45E-05	6.47E-04	4.89E-04	4.89E-04	2.69E-04	2.42E-05	3.50E-04	2.17E-04	2.17E-04	1.08E-04
673	257772.66	4084896.11	2.78E-04	4.01E-03	2.96E-03	2.96E-03	1.65E-03	4.21E-05	6.12E-04	4.62E-04	4.62E-04	2.54E-04	2.29E-05	3.31E-04	2.06E-04	2.06E-04	1.02E-04
674	257748.33	4084897.11	2.59E-04	3.74E-03	2.76E-03	2.76E-03	1.54E-03	3.93E-05	5.70E-04	4.31E-04	4.31E-04	2.37E-04	2.13E-05	3.09E-04	1.92E-04	1.92E-04	9.49E-05
675	257724	4084898.11	2.37E-04	3.43E-03	2.53E-03	2.53E-03	1.41E-03	3.60E-05	5.22E-04	3.94E-04	3.94E-04	2.17E-04	1.95E-05	2.82E-04	1.75E-04	1.75E-04	8.69E-05
676	257699.67	4084899.11	2.12E-04	3.06E-03	2.26E-03	2.26E-03	1.26E-03	3.21E-05	4.66E-04	3.52E-04	3.52E-04	1.94E-04	1.74E-05	2.52E-04	1.57E-04	1.57E-04	7.76E-05
677	257675.34	4084900.11	1.83E-04	2.64E-03	1.95E-03	1.95E-03	1.09E-03	2.77E-05	4.02E-04	3.04E-04	3.04E-04	1.67E-04	1.51E-05	2.18E-04	1.35E-04	1.35E-04	6.70E-05
678	257651	4084901.11	1.50E-04	2.18E-03	1.60E-03	1.60E-03	8.94E-04	2.28E-05	3.31E-04	2.50E-04	2.50E-04	1.38E-04	1.24E-05	1.79E-04	1.11E-04	1.11E-04	5.51E-05
679	257626.67	4084902.11	1.17E-04	1.69E-03	1.24E-03	1.24E-03	6.92E-04	1.77E-05	2.57E-04	1.94E-04	1.94E-04	1.07E-04	9.60E-06	1.39E-04	8.63E-05	8.63E-05	4.27E-05
680	257602.34	4084903.11	8.51E-05	1.23E-03	9.07E-04	9.07E-04	5.06E-04	1.29E-05	1.87E-04	1.42E-04	1.42E-04	7.79E-05	7.01E-06	1.01E-04	6.30E-05	6.30E-05	3.12E-05
681	257578.01	4084904.11	6.19E-05	8.95E-04	6.60E-04	6.60E-04	3.68E-04	9.40E-06	1.36E-04	1.03E-04	1.03E-04	5.67E-05	5.10E-06	7.38E-05	4.58E-05	4.58E-05	2.27E-05
682	257553.68	4084905.11	4.82E-05	6.98E-04	5.14E-04	5.14E-04	2.87E-04	7.32E-06	1.06E-04	8.03E-05	8.03E-05	4.41E-05	3.98E-06	5.75E-05	3.57E-05	3.57E-05	1.77E-05
683	258373.67	4084853.81	2.79E-04	4.03E-03	2.97E-03	2.97E-03	1.66E-03	4.23E-05	6.14E-04	4.64E-04	4.64E-04	2.55E-04	2.30E-05	3.32E-04	2.06E-04	2.06E-04	1.02E-04
684	258417.76	4084884.76	3.15E-04	4.55E-03	3.36E-03	3.36E-03	1.87E-03	4.78E-05	6.94E-04	5.24E-04	5.24E-04	2.88E-04	2.60E-05	3.75E-04	2.33E-04	2.33E-04	1.15E-04
685	258331.27	4084848.12	2.71E-04	3.92E-03	2.89E-03	2.89E-03	1.61E-03	4.12E-05	5.98E-04	4.51E-04	4.51E-04	2.48E-04	2.24E-05	3.23E-04	2.01E-04	2.01E-04	9.94E-05
686	258306.94	4084849.12	2.75E-04	3.97E-03	2.93E-03	2.93E-03	1.63E-03	4.17E-05	6.05E-04	4.57E-04	4.57E-04	2.51E-04	2.26E-05	3.28E-04	2.03E-04	2.03E-04	1.01E-04
687	258282.6	4084850.12	2.77E-04	4.01E-03	2.95E-03	2.95E-03	1.65E-03	4.21E-05	6.11E-04	4.61E-04	4.61E-04	2.54E-04	2.28E-05	3.30E-04	2.05E-04	2.05E-04	1.02E-04
688	258258.27	4084851.12	2.79E-04	4.03E-03	2.97E-03	2.97E-03	1.66E-03	4.23E-05	6.14E-04	4.64E-04	4.64E-04	2.55E-04	2.30E-05	3.32E-04	2.06E-04	2.06E-04	1.02E-04
689	258233.94	4084852.12	2.80E-04	4.04E-03	2.98E-03	2.98E-03	1.66E-03	4.24E-05	6.16E-04	4.65E-04	4.65E-04	2.56E-04	2.31E-05	3.33E-04	2.07E-04	2.07E-04	1.03E-04
690	258209.61	4084853.13	2.80E-04	4.05E-03	2.99E-03	2.99E-03	1.66E-03	4.25E-05	6.17E-04	4.66E-04	4.66E-04	2.56E-04	2.31E-05	3.34E-04	2.07E-04	2.07E-04	1.03E-04
691	258185.28	4084854.13	2.80E-04	4.05E-03	2.99E-03	2.99E-03	1.66E-03	4.25E-05	6.17E-04	4.66E-04	4.66E-04	2.56E-04	2.31E-05	3.34E-04	2.07E-04	2.07E-04	1.03E-04
692	258160.94	4084855.13	2.80E-04	4.05E-03	2.98E-03	2.98E-03	1.66E-03	4.24E-05	6.16E-04	4.66E-04	4.66E-04	2.56E-04	2.31E-05	3.33E-04	2.07E-04	2.07E-04	1.03E-04
693	258136.61	4084856.13	2.79E-04	4.03E-03	2.97E-03	2.97E-03	1.66E-03	4.23E-05	6.14E-04	4.64E-04	4.64E-04	2.55E-04	2.30E-05	3.32E-04	2.06E-04	2.06E-04	1.02E-04
694	258112.28	4084857.13	2.78E-04	4.01E-03	2.96E-03	2.96E-03	1.65E-03	4.21E-05	6.12E-04	4.62E-04	4.62E-04	2.54E-04	2.29E-05	3.31E-04	2.06E-04	2.06E-04	1.02E-04
695	258087.95	4084858.13	2.76E-04	3.99E-03	2.94E-03	2.94E-03	1.64E-03	4.19E-05	6.08E-04	4.59E-04	4.59E-04	2.52E-04	2.27E-05	3.29E-04	2.04E-04	2.04E-04	1.01E-04
696	258063.62	4084859.13	2.74E-04	3.96E-03	2.92E-03	2.92E-03	1.63E-03	4.16E-05	6.03E-04	4.56E-04	4.56E-04	2.51E-04	2.26E-05	3.26E-04	2.03E-04	2.03E-04	1.00E-04
697	258039.29	4084860.13	2.71E-04	3.92E-03	2.89E-03	2.89E-03	1.61E-03	4.12E-05	5.98E-04	4.51E-04	4.51E-04	2.48E-04	2.24E-05	3.23E-04	2.01E-04	2.01E-04	9.94E-05
698	258014.95	4084861.13	2.68E-04	3.88E-03	2.86E-03	2.86E-03	1.59E-03	4.07E-05	5.91E-04	4.46E-04	4.46E-04	2.45E-04	2.21E-05	3.20E-04	1.99E-04	1.99E-04	9.83E-05

699	257990.62	4084862.13	2.64E-04	3.82E-03	2.82E-03	2.82E-03	1.57E-03	4.01E-05	5.82E-04	4.40E-04	4.40E-04	2.42E-04	2.18E-05	3.15E-04	1.96E-04	1.96E-04	9.69E-05
700	257966.29	4084863.13	2.60E-04	3.76E-03	2.77E-03	2.77E-03	1.54E-03	3.94E-05	5.73E-04	4.33E-04	4.33E-04	2.38E-04	2.14E-05	3.10E-04	1.92E-04	1.92E-04	9.53E-05
701	257941.96	4084864.13	2.55E-04	3.68E-03	2.72E-03	2.72E-03	1.51E-03	3.87E-05	5.61E-04	4.24E-04	4.24E-04	2.33E-04	2.10E-05	3.04E-04	1.89E-04	1.89E-04	9.34E-05
702	257917.63	4084865.13	2.49E-04	3.60E-03	2.65E-03	2.65E-03	1.48E-03	3.77E-05	5.48E-04	4.14E-04	4.14E-04	2.28E-04	2.05E-05	2.96E-04	1.84E-04	1.84E-04	9.11E-05
703	257893.29	4084866.13	2.42E-04	3.49E-03	2.58E-03	2.58E-03	1.44E-03	3.67E-05	5.32E-04	4.02E-04	4.02E-04	2.21E-04	1.99E-05	2.88E-04	1.79E-04	1.79E-04	8.85E-05
704	257868.96	4084867.13	2.33E-04	3.38E-03	2.49E-03	2.49E-03	1.39E-03	3.54E-05	5.14E-04	3.88E-04	3.88E-04	2.14E-04	1.92E-05	2.78E-04	1.73E-04	1.73E-04	8.55E-05
705	257844.63	4084868.13	2.24E-04	3.24E-03	2.39E-03	2.39E-03	1.33E-03	3.40E-05	4.93E-04	3.73E-04	3.73E-04	2.05E-04	1.85E-05	2.67E-04	1.66E-04	1.66E-04	8.21E-05
706	257820.3	4084869.13	2.13E-04	3.08E-03	2.27E-03	2.27E-03	1.27E-03	3.23E-05	4.69E-04	3.54E-04	3.54E-04	1.95E-04	1.76E-05	2.54E-04	1.58E-04	1.58E-04	7.81E-05
707	257795.97	4084870.13	2.00E-04	2.90E-03	2.14E-03	2.14E-03	1.19E-03	3.04E-05	4.42E-04	3.34E-04	3.34E-04	1.83E-04	1.65E-05	2.39E-04	1.48E-04	1.48E-04	7.35E-05
708	257771.64	4084871.13	1.86E-04	2.69E-03	1.98E-03	1.98E-03	1.11E-03	2.83E-05	4.10E-04	3.10E-04	3.10E-04	1.70E-04	1.53E-05	2.22E-04	1.38E-04	1.38E-04	6.82E-05
709	257747.3	4084872.13	1.70E-04	2.46E-03	1.81E-03	1.81E-03	1.01E-03	2.58E-05	3.75E-04	2.83E-04	2.83E-04	1.56E-04	1.40E-05	2.03E-04	1.26E-04	1.26E-04	6.23E-05
710	257722.97	4084873.13	1.52E-04	2.20E-03	1.62E-03	1.62E-03	9.04E-04	2.31E-05	3.35E-04	2.53E-04	2.53E-04	1.39E-04	1.25E-05	1.81E-04	1.13E-04	1.13E-04	5.57E-05
711	257698.64	4084874.13	1.32E-04	1.92E-03	1.41E-03	1.41E-03	7.87E-04	2.01E-05	2.92E-04	2.20E-04	2.20E-04	1.21E-04	1.09E-05	1.58E-04	9.81E-05	9.81E-05	4.85E-05
712	257674.31	4084875.13	1.12E-04	1.61E-03	1.19E-03	1.19E-03	6.63E-04	1.69E-05	2.46E-04	1.86E-04	1.86E-04	1.02E-04	9.19E-06	1.33E-04	8.26E-05	8.26E-05	4.09E-05
713	257649.98	4084876.13	9.05E-05	1.31E-03	9.65E-04	9.65E-04	5.38E-04	1.37E-05	1.99E-04	1.51E-04	1.51E-04	8.28E-05	7.46E-06	1.08E-04	6.70E-05	6.70E-05	3.32E-05
714	257625.64	4084877.13	7.10E-05	1.03E-03	7.57E-04	7.57E-04	4.22E-04	1.08E-05	1.57E-04	1.18E-04	1.18E-04	6.50E-05	5.86E-06	8.47E-05	5.26E-05	5.26E-05	2.60E-05
715	257601.31	4084878.13	5.52E-05	7.98E-04	5.88E-04	5.88E-04	3.28E-04	8.37E-06	1.22E-04	9.18E-05	9.18E-05	5.05E-05	4.55E-06	6.58E-05	4.08E-05	4.08E-05	2.02E-05
716	257576.98	4084879.13	4.39E-05	6.35E-04	4.68E-04	4.68E-04	2.61E-04	6.66E-06	9.67E-05	7.31E-05	7.31E-05	4.02E-05	3.62E-06	5.23E-05	3.25E-05	3.25E-05	1.61E-05
717	257552.65	4084880.13	3.64E-05	5.27E-04	3.88E-04	3.88E-04	2.17E-04	5.53E-06	8.03E-05	6.06E-05	6.06E-05	3.33E-05	3.00E-06	4.34E-05	2.70E-05	2.70E-05	1.34E-05
718	258372.65	4084828.84	2.23E-04	3.23E-03	2.38E-03	2.38E-03	1.33E-03	3.39E-05	4.92E-04	3.72E-04	3.72E-04	2.04E-04	1.84E-05	2.66E-04	1.65E-04	1.65E-04	8.19E-05
719	258408.79	4084842.22	2.36E-04	3.41E-03	2.51E-03	2.51E-03	1.40E-03	3.58E-05	5.19E-04	3.92E-04	3.92E-04	2.16E-04	1.94E-05	2.81E-04	1.75E-04	1.75E-04	8.64E-05
720	258434.81	4084866.47	2.54E-04	3.68E-03	2.71E-03	2.71E-03	1.51E-03	3.86E-05	5.61E-04	4.23E-04	4.23E-04	2.33E-04	2.10E-05	3.03E-04	1.88E-04	1.88E-04	9.33E-05
721	258330.24	4084823.14	2.17E-04	3.14E-03	2.31E-03	2.31E-03	1.29E-03	3.29E-05	4.78E-04	3.61E-04	3.61E-04	1.99E-04	1.79E-05	2.59E-04	1.61E-04	1.61E-04	7.95E-05
722	258305.91	4084824.15	2.19E-04	3.17E-03	2.34E-03	2.34E-03	1.30E-03	3.32E-05	4.83E-04	3.65E-04	3.65E-04	2.00E-04	1.81E-05	2.61E-04	1.62E-04	1.62E-04	8.03E-05
723	258281.58	4084825.15	2.20E-04	3.19E-03	2.35E-03	2.35E-03	1.31E-03	3.34E-05	4.85E-04	3.67E-04	3.67E-04	2.02E-04	1.82E-05	2.63E-04	1.63E-04	1.63E-04	8.08E-05
724	258257.25	4084826.15	2.21E-04	3.20E-03	2.36E-03	2.36E-03	1.31E-03	3.36E-05	4.87E-04	3.68E-04	3.68E-04	2.02E-04	1.82E-05	2.64E-04	1.64E-04	1.64E-04	8.10E-05
725	258232.91	4084827.15	2.21E-04	3.20E-03	2.36E-03	2.36E-03	1.32E-03	3.36E-05	4.88E-04	3.69E-04	3.69E-04	2.03E-04	1.83E-05	2.64E-04	1.64E-04	1.64E-04	8.12E-05
726	258208.58	4084828.15	2.21E-04	3.20E-03	2.36E-03	2.36E-03	1.32E-03	3.36E-05	4.88E-04	3.69E-04	3.69E-04	2.03E-04	1.82E-05	2.64E-04	1.64E-04	1.64E-04	8.12E-05
727	258184.25	4084829.15	2.21E-04	3.20E-03	2.36E-03	2.36E-03	1.31E-03	3.35E-05	4.87E-04	3.68E-04	3.68E-04	2.02E-04	1.82E-05	2.63E-04	1.64E-04	1.64E-04	8.10E-05
728	258159.92	4084830.15	2.20E-04	3.19E-03	2.35E-03	2.35E-03	1.31E-03	3.34E-05	4.85E-04	3.67E-04	3.67E-04	2.02E-04	1.82E-05	2.63E-04	1.63E-04	1.63E-04	8.07E-05
729	258135.59	4084831.15	2.19E-04	3.17E-03	2.34E-03	2.34E-03	1.30E-03	3.33E-05	4.83E-04	3.65E-04	3.65E-04	2.01E-04	1.81E-05	2.61E-04	1.62E-04	1.62E-04	8.03E-05
730	258111.25	4084832.15	2.18E-04	3.15E-03	2.32E-03	2.32E-03	1.29E-03	3.30E-05	4.79E-04	3.62E-04	3.62E-04	1.99E-04	1.79E-05	2.59E-04	1.61E-04	1.61E-04	7.98E-05
731	258086.92	4084833.15	2.16E-04	3.12E-03	2.30E-03	2.30E-03	1.28E-03	3.27E-05	4.75E-04	3.59E-04	3.59E-04	1.97E-04	1.78E-05	2.57E-04	1.60E-04	1.60E-04	7.91E-05
732	258062.59	4084834.15	2.13E-04	3.09E-03	2.27E-03	2.27E-03	1.27E-03	3.24E-05	4.70E-04	3.55E-04	3.55E-04	1.95E-04	1.76E-05	2.54E-04	1.58E-04	1.58E-04	7.82E-05
733	258038.26	4084835.15	2.10E-04	3.04E-03	2.24E-03	2.24E-03	1.25E-03	3.19E-05	4.64E-04	3.50E-04	3.50E-04	1.93E-04	1.73E-05	2.51E-04	1.56E-04	1.56E-04	7.72E-05
734	258013.93	4084836.15	2.07E-04	3.00E-03	2.21E-03	2.21E-03	1.23E-03	3.14E-05	4.56E-04	3.45E-04	3.45E-04	1.90E-04	1.71E-05	2.47E-04	1.53E-04	1.53E-04	7.59E-05
735	257989.6	4084837.15	2.03E-04	2.94E-03	2.17E-03	2.17E-03	1.21E-03	3.08E-05	4.48E-04	3.38E-04	3.38E-04	1.86E-04	1.68E-05	2.42E-04	1.50E-04	1.50E-04	7.45E-05
736	257965.26	4084838.15	1.99E-04	2.87E-03	2.12E-03	2.12E-03	1.18E-03	3.02E-05	4.38E-04	3.31E-04	3.31E-04	1.82E-04	1.64E-05	2.37E-04	1.47E-04	1.47E-04	7.28E-05
737	257940.93	4084839.15	1.93E-04	2.80E-03	2.06E-03	2.06E-03	1.15E-03	2.94E-05	4.26E-04	3.22E-04	3.22E-04	1.77E-04	1.59E-05	2.31E-04	1.43E-04	1.43E-04	7.09E-05
738	257916.6	4084840.15	1.87E-04	2.71E-03	2.00E-03	2.00E-03	1.11E-03	2.84E-05	4.13E-04	3.12E-04	3.12E-04	1.72E-04	1.54E-05	2.23E-04	1.39E-04	1.39E-04	6.87E-05
739	257892.27	4084841.15	1.81E-04	2.61E-03	1.92E-03	1.92E-03	1.07E-03	2.74E-05	3.98E-04	3.01E-04	3.01E-04	1.65E-04	1.49E-05	2.15E-04	1.34E-04	1.34E-04	6.62E-05
740	257867.94	4084842.15	1.73E-04	2.50E-03	1.84E-03	1.84E-03	1.03E-03	2.62E-05	3.81E-04	2.87E-04	2.87E-04	1.58E-04	1.42E-05	2.06E-04	1.28E-04	1.28E-04	6.33E-05
741	257843.6	4084843.15	1.64E-04	2.37E-03	1.75E-03	1.75E-03	9.74E-04	2.49E-05	3.61E-04	2.73E-04	2.73E-04	1.50E-04	1.35E-05	1.95E-04	1.21E-04	1.21E-04	6.01E-05
742	257819.27	4084844.15	1.54E-04	2.23E-03	1.64E-03	1.64E-03	9.15E-04	2.34E-05	3.39E-04	2.56E-04	2.56E-04	1.41E-04	1.27E-05	1.83E-04	1.14E-04	1.14E-04	5.64E-05
743	257794.94	4084845.15	1.43E-04	2.07E-03	1.52E-03	1.52E-03	8.49E-04	2.17E-05	3.15E-04	2.38E-04	2.38E-04	1.31E-04	1.18E-05	1.70E-04	1.06E-04	1.06E-04	5.23E-05
744	257770.61	4084846.15	1.31E-04	1.89E-03	1.39E-03	1.39E-03	7.76E-04	1.98E-05	2.88E-04	2.17E-04	2.17E-04	1.19E-04	1.08E-05	1.56E-04	9.67E-05	9.67E-05	4.79E-05
745	257746.28	4084847.15	1.17E-04	1.70E-03	1.25E-03	1.25E-03	6.97E-04	1.78E-05	2.58E-04	1.95E-04	1.95E-04	1.07E-04	9.66E-06	1.40E-04	8.68E-05	8.68E-05	4.30E-05
746	257721.95	4084848.15	1.03E-04	1.49E-03	1.10E-03	1.10E-03	6.13E-04	1.56E-05	2.27E-04	1.72E-04	1.72E-04	9.43E-05	8.50E-06	1.23E-04	7.63E-05	7.63E-05	3.78E-05
747	257697.61	4084849.15	8.85E-05	1.28E-03	9.43E-04	9.43E-04	5.26E-04	1.34E-05	1.95E-04	1.47E-04	1.47E-04	8.10E-05	7.29E-06	1.06E-04	6.55E-05	6.55E-05	3.24E-05
748	257673.28	4084850.15	7.41E-05	1.07E-03	7.89E-04	7.89E-04	4.40E-04	1.12E-05	1.63E-04	1.23E-04	1.23E-04	6.78E-05	6.10E-06	8.83E-05	5.48E-05	5.48E-05	2.71E-05
749	257648.95	4084851.15	6.06E-05	8.77E-04	6.47E-04	6.47E-04	3.60E-04	9.20E-06	1.34E-04	1.01E-04	1.01E-04	5.55E-05	5.00E-06	7.23E-05	4.49E-05	4.49E-05	2.22E-05
750	257624.62	4084852.15	4.92E-05	7.11E-04	5.24E-04	5.24E-04	2.92E-04	7.46E-06	1.08E-04	8.18E-05	8.18E-05	4.50E-05	4.05E-06	5.86E-05	3.64E-05	3.64E-05	1.80E-05
751	257600.29	4084853.15	4.02E-05	5.81E-04	4.29E-04	4.29E-04	2.39E-04	6.10E-06	8.86E-05	6.69E-05	6.69E-05	3.68E-05	3.31E-06	4.79E-05	2.98E-05	2.98E-05	1.47E-05
752	257575.95	4084854.15	3.37E-05	4.87E-04	3.59E-04	3.59E-04	2.00E-04	5.11E-06	7.42E-05	5.60E-05	5.60E-05	3.08E-05	2.77E-06	4.01E-05	2.49E-05	2.49E-05	1.23E-05
753	257551.62	4084855.15	2.90E-05	4.19E-04	3.09E-04	3.09E-04	1.72E-04	4.40E-06	6.38E-05	4.82E-05	4.82E-05	2.65E-05	2.39E-06	3.45E-05	2.15E-05	2.15E-05	1.06E-05
754	258374.21	4084780.22	1.57E-04	2.27E-03	1.67E-03	1.67E-03	9.31E-04	2.38E-05	3.45E-04	2.61E-04	2.61E-04	1.43E-04	1.29E-05	1.87E-04	1.16E-04	1.16E-04	5.74E-05
755	258395.89	4084788.25	1.63E-04	2.36E-03	1.74E-03	1.74E-03	9.70E-04	2.48E-05	3.60E-04	2.72E-04	2.72E-04	1.49E-04	1.35E-05	1.95E-04	1.21E-04	1.21E-04	5.98E-05
756	258417.58	4084796.27	1.68E-04	2.43E-03	1.79E-03	1.79E-03	1.00E-03	2.55E-05	3.71E-04	2.80E-04	2.80E-04	1.54E-04	1.39E-05	2.01E-04	1.25E-04	1.25E-04	6.17E-05
757	258439.27	4084804.3	1.71E-04	2.47E-03	1.82E-03	1.82E-03	1.02E-03	2.59E-05	3.76E-04	2.84E-04	2.84E-04	1.56E-04	1.41E-05	2.04E-04	1.27E-04	1.27E-04	6.26E-05
758	258470.49	4084833.4	1.83E-04	2.64E-03	1.95E-03	1.95E-03	1.09E-03	2.77E-05	4.03E-04	3.04E-04	3.04E-04	1.67E-04	1.51E-05	2.18E-04	1.35E-04	1.35E-04	6.70E-05
759	258480.02	4084854.47	1.91E-04	2.76E-03	2.04E-03	2.04E-03	1.14E-03	2.90E-05	4.21E-04	3.18E-04	3.18E-04	1.75E-04	1.58E-05	2.28E-04	1.42E-04	1.42E-04	7.01E-05
760	258489.55	4084875.54	1.93E-04	2.79E-03	2.06E-03	2.06E-03	1.15E-03	2.93E-05	4.25E-04	3.21E-04	3.21E-04	1.76E-04	1.59E-05	2.30E-04	1.43E-04	1.43E-04	7.07E-05
761	258499.08	4084896.61	1.88E-04	2.72E-03	2.00E-03	2.00E-03	1.12E-03	2.85E-05	4.14E-04	3.13E-04	3.13E-04	1.72E-04	1.55E-05	2.24E-04	1.39E-04	1.39E-04	6.89E-05
762	258352.52	4084772.19	1.49E-04	2.16E-03	1.59E-03	1.59E-03	8.88E-04	2.27E-05	3.29E-04	2.49E-04	2.49E-04	1.37E-04	1.23E-05	1.78E-04	1.11E-04	1.11E-04	5.48E-05
763	258328.19	4084773.19	1.51E-04	2.18E-03	1.60E-03	1.60E-03	8.95E-04	2.28E-05	3.32E-04	2.51E-04	2.51E-04	1.38E-04	1.24E-05	1.79E-04	1.11E-04	1.11E-04	5.52E-05
764	258303.85	4084774.19	1.51E-04	2.19E-03	1.61E-03	1.61E-03	8.98E-04	2.29E-05	3.33E-04	2.52E-04	2.52E-04	1.38E-04	1.25E-05	1.80E-04	1.12E-04	1.12E-04	5.54E-05
765	258279.52	4084775.19	1.51E-04	2.19E-03	1.61E-03	1.61E-03	8.99E-04	2.30E-05	3.33E-04	2.52E-04	2.52E-04	1.38E-04	1.25E-05	1.80E-04	1.12E-04	1.12E-04	5.55E-05
766	258255.19	4084776.19	1.51E-04	2.19E-03	1.61E-03	1.61E-03	8.98E-04	2.29E-05	3.33E-04	2.51E-04	2.51E-04	1.38E-04	1.25E-05	1.80E-04	1.12E-04	1.12E-04	5.54E-05
767	258230.86	4084777.19	1.51E-04	2.18E-03	1.61E-03	1.61E-03	8.95E-04	2.29E-05	3.32E-04	2.51E-04	2.51E-04	1.38E-04	1.24E-05	1.80E-04	1.12E-04	1.12E-04	5.52E-05
768	258206.53	4084778.19	1.50E-04	2.17E-03	1.60E-03	1.60E-03	8.90E-04	2.27E-05	3.30E-04	2.49E-04	2.49E-04	1.37E-04	1.23E-05	1.79E-04	1.11E-04	1.11E-04	5.49E-05
769	258182.2	4084779.19	1.49E-04	2.15E-03	1.59E-03	1.59E-03	8.84E-04	2.26E-05	3.28E-04	2.48E-04	2.48E-04	1.36E-04	1.23E-05	1.77E-04	1.10E-04	1.10E-04	5.45E-05
770	258157.86	4084780.19	1.47E-04	2.13E-03	1.57E-03	1.57E-03	8.76E-04	2.24E-05	3.25E-04	2.45E-04	2.45E-04	1.35E-04	1.22E-05	1.76E-04	1.09E-04	1.09E-04	5.40E-05
771	258133.53	4084781.19	1.46E-04	2.11E-03	1.55E-03	1.55E-03	8.67E-04	2.21E-05	3.21E-04	2.43E-04	2.43E-04	1.33E-04	1.20E-05	1.74E-04	1.08E-04	1.08E-04	5.34E-05
772	258109.2	4084782.19	1.44E-04	2.08E-03	1.53E-03	1.53E-03	8.55E-04	2.18E-05	3.17E-04	2.39E-04	2.39E-04	1.32E-04	1.19E-05	1.72E-04	1.07E-04	1.07E-04	5.27E-05
773	258084.87	4084783.19	1.42E-04	2.05E-03	1.51E-03	1.51E-03	8.42E-04	2.15E-05	3.12E-04	2.36E-04	2.36E-04	1.30E-04	1.17E-05	1.69E-04	1.05E-04	1.05E-04	5.19E-05
774	258060.54	4084784.19	1.39E-04	2.01E-03	1.48E-03	1.48E-03	8.26E-04	2.11E-05	3.06E-04	2.31E-04	2.31E-04	1.27E-04	1.15E-05	1.66E-04	1.03E-04	1.03E-04	5.09E-05
775	258036.2	4084785.19	1.36E-04	1.97E-03	1.45E-03	1.45E-03	8.08E-04	2.06E-05	2.99E-04	2.26E-04	2.26E-04	1.24E-04	1.12E-05	1.62E-04	1.01E-04	1.01E-04	4.98E-05
776	258011.87	4084786.19	1.32E-04	1.92E-03	1.41E-03	1.41E-03	7.87E-04	2.01E-05	2.92E-04	2.20E-04	2.20E-04	1.21E-04	1.09E-05	1.58E-04	9.81E-05	9.81E-05	4.86E-05
777	257987.54	4084787.19	1.29E-04	1.86E-03	1.37E-03	1.37E-03	7.64E-04	1.95E-05	2.83E-04	2.14E-04	2.14E-04	1.18E-04	1.06E-05	1.53E-04	9.52E-05	9.52E-05	4.71E-05
778	257963.21	4084788.19	1.24E-04	1.80E-03	1.32E-03	1.32E-03	7.38E-04	1.88E-05	2.74E-04	2.07E-04	2.07E-04	1.14E-04	1.02E-05	1.48E-04	9.19E-05	9.19E-05	4.55E-05
779	257938.88	4084789.19	1.19E-04	1.72E-03	1.27E-03	1.27E-03	7.08E-04	1.81E-05	2.63E-04	1.98E-04	1.98E-04	1.09E-04	9.83E-06	1.42E-04	8.83E-05	8.83E-05	4.37E-05
780	257914.55	4084790.19	1.14E-04	1.65E-03	1.21E-03	1.21E-03	6.76E-04	1.73E-05	2.51E-04	1.89E-04	1.89E-04	1.04E-04	9.38E-06	1.36E-04	8.42E-05	8.42E-05	4.17E-05
781	257890.21	4084791.19	1.08E-04	1.56E-03	1.15E-03	1.15E-03	6.40E-04	1.63E-05	2.37E-04	1.79E-04	1.79E-04	9.86E-05	8.88E-06	1.28E-04	7.98E-05	7.98E-05	3.95E-05
782	257865.88	4084792.19	1.01E-04	1.46E-03	1.08E-03	1.08E-03	6.01E-04	1.53E-05	2.23E-04	1.68E-04	1.68E-04	9.26E-05	8.34E-06	1.21E-04	7.49E-05	7.49E-05	3.71E-05
783	257841.55	4084793.19	9.40E-05	1.36E-03	1.00E-03	1.00E-03	5.59E-04	1.43E-05	2.07E-04	1.57E-04	1.57E-04	8.60E-05	7.75E-06	1.12E-04	6.96E-05	6.96E-05	3.45E-05
784	257817.22	4084794.19	8.64E-05	1.25E-03	9.21E-04	9.21E-04	5.14E-04	1.31E-05	1.90E-04	1.44E-04	1.44E-04	7.91E-05	7.12E-06	1.03E-04	6.40E-05	6.40E-05	3.17E-05
785	257792.89	4084795.19	7.84E-05	1.13E-03	8.36E-04	8.36E-04	4.66E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.18E-05	6.47E-06	9.35E-05	5.81E-05	5.81E-05	2.88E-05
786	257768.55	4084796.19	7.02E-05	1.02E-03	7.49E-04	7.49E-04	4.17E-04	1.07E-05	1.55E-04	1.17E-04	1.17E-04	6.43E-05	5.79E-06	8.37E-05	5.20E-05	5.20E-05	2.57E-05
787	257744.22	4084797.19	6.19E-05	8.96E-04	6.60E-04	6.60E-04	3.68E-04	9.40E-06	1.36E-04	1.03E-04	1.03E-04	5.67E-05	5.11E-06	7.38E-05	4.59E-05	4.59E-05	2.27E-05
788	257719.89	4084798.19	5.39E-05	7.79E-04	5.74E-04	5.74E-04	3.20E-04	8.18E-06	1.19E-04	8.97E-05	8.97E-05	4.93E-05	4.44E-06	6.42E-05	3.99E-05	3.99E-05	1.98E-05
789	257695.56	4084799.19	4.63E-05	6.70E-04	4.94E-04	4.94E-04	2.75E-04	7.03E-06	1.02E-04	7.71E-05	7.71E-05	4.24E-05	3.82E-06	5.52E-05	3.43E-05	3.43E-05	1.70E-05
790	257671.23	4084800.2	3.95E-05	5.72E-04	4.22E-04	4.22E-04	2.35E-04	6.00E-06	8.71E-05	6.58E-05	6.58E-05	3.62E-05	3.26E-06	4.71E-05	2.93E-05	2.93E-05	1.45E-05
791	257646.9	4084801.2	3.38E-05	4.88E-04	3.60E-04	3.60E-04	2.01E-04	5.12E-06	7.44E-05	5.62E-05	5.62E-05	3.09E-05	2.78E-06	4.02E-05	2.50E-05	2.50E-05	1.24E-05
792	257622.56	4084802.2	2.90E-05	4.20E-04	3.09E-04	3.09E-04	1.73E-04	4.41E-06	6.40E-05	4.83E-05	4.83E-05	2.66E-05	2.39E-06	3.46E-05	2.15E-05	2.15E-05	1.06E-05
793	257598.23	4084803.2	2.53E-05	3.66E-04	2.70E-04	2.70E-04	1.50E-04	3.84E-06	5.57E-05	4.21E-05	4.21E-05	2.31E-05	2.08E-06	3.01E-05	1.87E-05	1.87E-05	9.27E-06
794	257573.9	4084804.2	2.23E-05	3.23E-04	2.38E-04	2.38E-04	1.33E-04	3.39E-06	4.92E-05	3.72E-05	3.72E-05	2.04E-05	1.84E-06	2.66E-05	1.65E-05	1.65E-05	8.19E-06
795	257549.57	4084805.2	2.00E-05	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.04E-06	4.41E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.39E-05	1.48E-05	1.48E-05	7.34E-06
796	258371.12	4084729.88	1.16E-04	1.67E-03	1.23E-03	1.23E-03	6.87E-04	1.75E-05	2.55E-04	1.92E-04	1.92E-04	1.06E-04	9.52E-06	1.38E-04	8.56E-05	8.56E-05	4.24E-05
797	258412.43	4084745.17	1.25E-04	1.80E-03	1.33E-03	1.33E-03	7.41E-04	1.89E-05	2.75E-04	2.07E-04	2.07E-04	1.14E-04	1.03E-05	1.49E-04	9.23E-05	9.23E-05	4.57E-05
798	258453.74	4084760.46	1.31E-04	1.89E-03	1.39E-03	1.39E-03	7.77E-04	1.98E-05	2.88E-04	2.18E-04	2.18E-04	1.20E-04	1.08E-05	1.56E-04	9.68E-05	9.68E-05	4.79E-05
799	258504.13	4084795.83	1.39E-04	2.01E-03	1.48E-03	1.48E-03	8.24E-04	2.10E-05	3.05E-04	2.31E-04	2.31E-04	1.27E-04	1.14E-05	1.65E-04	1.03E-04	1.03E-04	5.08E-05
800	258522.28	4084835.96	1.47E-04	2.12E-03	1.57E-03	1.57E-03	8.73E-04	2.23E-05	3.24E-04	2.44E-04	2.44E-04	1.34E-04	1.21E-05	1.75E-04	1.09E-04	1.09E-04	5.38E-05
801	258540.44	4084876.09	1.42E-04	2.05E-03	1.51E-03	1.51E-03	8.43E-04	2.15E-05	3.12E-04	2.36E-04	2.36E-04	1.30E-04	1.17E-05	1.69E-04	1.05E-04	1.05E-04	5.20E-05
802	258326.13	4084723.23	1.11E-04	1.60E-03	1.18E-03	1.18E-03	6.58E-04	1.68E-05	2.44E-04	1.84E-04	1.84E-04	1.01E-04	9.13E-06	1.32E-04	8.20E-05	8.20E-05	4.06E-05
803	258301.8	4084724.23	1.11E-04	1.60E-03	1.18E-03	1.18E-03	6.57E-04	1.68E-05	2.44E-04	1.84E-04	1.84E-04	1.01E-04	9.11E-06	1.32E-04	8.19E-05	8.19E-05	4.05E-05
804	258277.47	4084725.23	1.10E-04	1.59E-03	1.17E-03	1.17E-03	6.54E-04	1.67E-05	2.43E-04	1.83E-04	1.83E-04	1.01E-04	9.07E-06	1.31E-04	8.15E-05	8.15E-05	4.04E-05
805	258253.14	4084726.23	1.09E-04	1.58E-03	1.17E-03	1.17E-03	6.50E-04	1.66E-05	2.41E-04	1.82E-04	1.82E-04	1.00E-04	9.02E-06	1.30E-04	8.10E-05	8.10E-05	4.01E-05
806	258228.81	4084727.23	1.08E-04	1.57E-03	1.16E-03	1.16E-03	6.44E-04	1.65E-05	2.39E-04	1.80E-04	1.80E-04	9.92E-05	8.94E-06	1.29E-04	8.03E-05	8.03E-05	3.97E-05
807	258204.47	4084728.23	1.07E-04	1.55E-03	1.14E-03	1.14E-03	6.37E-04	1.63E-05	2.36E-04	1.79E-04	1.79E-04	9.82E-05	8.84E-06	1.28E-04	7.94E-05	7.94E-05	3.93E-05
808	258180.14	4084729.23	1.06E-04	1.53E-03	1.13E-03	1.13E-03	6.29E-04	1.61E-05	2.33E-04	1.76E-04	1.76E-04	9.69E-05	8.73E-06	1.26E-04	7.84E-05	7.84E-05	3.88E-05
809	258155.81	4084730.23	1.04E-04	1.51E-03	1.11E-03	1.11E-03	6.20E-04	1.58E-05	2.30E-04	1.74E-04	1.74E-04	9.54E-05	8.59E-06	1.24E-04	7.72E-05	7.72E-05	3.82E-05
810	258131.48	4084731.23	1.02E-04	1.48E-03	1.09E-03	1.09E-03	6.08E-04	1.55E-05	2.26E-04	1.70E-04	1.70E-04	9.37E-05	8.44E-06	1.22E-04	7.58E-05	7.58E-05	3.75E-05
811	258107.15	4084732.23	1.00E-04	1.45E-03	1.07E-03	1.07E-03	5.96E-04	1.52E-05	2.21E-04	1.67E-04	1.67E-04	9.17E-05	8.26E-06	1.20E-04	7.42E-05	7.42E-05	3.67E-05
812	258082.81	4084733.23	9.79E-05	1.42E-03	1.04E-03	1.04E-03	5.82E-04	1.49E-05	2.16E-04	1.63E-04	1.63E-04	8.95E-05	8.07E-06	1.17E-04	7.25E-05	7.25E-05	3.59E-05
813	258058.48	4084734.23	9.52E-05	1.38E-03	1.01E-03	1.01E-03	5.66E-04	1.44E-05	2.10E-04	1.58E-04	1.58E-04	8.71E-05	7.85E-06	1.13E-04	7.05E-05	7.05E-05	3.49E-05
814	258034.15	4084735.23	9.22E-05	1.33E-03	9.83E-04	9.83E-04	5.48E-04	1.40E-05	2.03E-04	1.53E-04	1.53E-04	8.44E-05	7.60E-06	1.10E-04	6.83E-05	6.83E-05	3.38E-05
815	258009.82	4084736.23	0.000088939	1.29E-03	9.48E-04	9.48E-04	5.29E-04	1.35E-05	1.96E-04	1.48E-04	1.48E-04	8.14E-05	7.33E-06	1.06E-04	6.59E-05	6.59E-05	3.26E-05

816	257985.49	4084737.23	0.000085339	1.23E-03	9.10E-04	9.10E-04	5.07E-04	1.30E-05	1.88E-04	1.42E-04	1.42E-04	7.81E-05	7.03E-06	1.02E-04	6.32E-05	6.32E-05	3.13E-05
817	257961.16	4084738.23	0.000081415	1.18E-03	8.68E-04	8.68E-04	4.84E-04	1.24E-05	1.79E-04	1.36E-04	1.36E-04	7.45E-05	6.71E-06	9.71E-05	6.03E-05	6.03E-05	2.98E-05
818	257936.82	4084739.23	0.000077169	1.12E-03	8.23E-04	8.23E-04	4.59E-04	1.17E-05	1.70E-04	1.28E-04	1.28E-04	7.06E-05	6.36E-06	9.20E-05	5.71E-05	5.71E-05	2.83E-05
819	257912.49	4084740.23	0.000072622	1.05E-03	7.74E-04	7.74E-04	4.32E-04	1.10E-05	1.60E-04	1.21E-04	1.21E-04	6.65E-05	5.99E-06	8.66E-05	5.38E-05	5.38E-05	2.66E-05
820	257888.16	4084741.23	0.000067796	9.81E-04	7.23E-04	7.23E-04	4.03E-04	1.03E-05	1.49E-04	1.13E-04	1.13E-04	6.20E-05	5.59E-06	8.08E-05	5.02E-05	5.02E-05	2.49E-05
821	257863.83	4084742.23	0.000062741	9.07E-04	6.69E-04	6.69E-04	3.73E-04	9.52E-06	1.38E-04	1.04E-04	1.04E-04	5.74E-05	5.17E-06	7.48E-05	4.65E-05	4.65E-05	2.30E-05
822	257839.5	4084743.24	0.000057522	8.32E-04	6.13E-04	6.13E-04	3.42E-04	8.73E-06	1.27E-04	9.57E-05	9.57E-05	5.26E-05	4.74E-06	6.86E-05	4.26E-05	4.26E-05	2.11E-05
823	257815.16	4084744.24	0.000052217	7.55E-04	5.57E-04	5.57E-04	3.10E-04	7.92E-06	1.15E-04	8.69E-05	8.69E-05	4.78E-05	4.30E-06	6.23E-05	3.87E-05	3.87E-05	1.91E-05
824	257790.83	4084745.24	0.000046939	6.79E-04	5.00E-04	5.00E-04	2.79E-04	7.12E-06	1.03E-04	7.81E-05	7.81E-05	4.30E-05	3.87E-06	5.60E-05	3.48E-05	3.48E-05	1.72E-05
825	257766.5	4084746.24	0.00004181	6.05E-04	4.46E-04	4.46E-04	2.48E-04	6.35E-06	9.21E-05	6.96E-05	6.96E-05	3.83E-05	3.45E-06	4.98E-05	3.10E-05	3.10E-05	1.53E-05
826	257742.17	4084747.24	0.00003696	5.35E-04	3.94E-04	3.94E-04	2.20E-04	5.61E-06	8.14E-05	6.15E-05	6.15E-05	3.38E-05	3.05E-06	4.41E-05	2.74E-05	2.74E-05	1.35E-05
827	257717.84	4084748.24	0.000032507	4.70E-04	3.47E-04	3.47E-04	1.93E-04	4.93E-06	7.16E-05	5.41E-05	5.41E-05	2.97E-05	2.68E-06	3.88E-05	2.41E-05	2.41E-05	1.19E-05
828	257693.51	4084749.24	0.000028542	4.13E-04	3.04E-04	3.04E-04	1.70E-04	4.33E-06	6.29E-05	4.75E-05	4.75E-05	2.61E-05	2.35E-06	3.40E-05	2.11E-05	2.11E-05	1.05E-05
829	257669.17	4084750.24	0.000025116	3.63E-04	2.68E-04	2.68E-04	1.49E-04	3.81E-06	5.53E-05	4.18E-05	4.18E-05	2.30E-05	2.07E-06	2.99E-05	1.86E-05	1.86E-05	9.21E-06
830	257644.84	4084751.24	0.000022229	3.22E-04	2.37E-04	2.37E-04	1.32E-04	3.37E-06	4.90E-05	3.70E-05	3.70E-05	2.03E-05	1.83E-06	2.65E-05	1.65E-05	1.65E-05	8.15E-06
831	257620.51	4084752.24	0.000019833	2.87E-04	2.11E-04	2.11E-04	1.18E-04	3.01E-06	4.37E-05	3.30E-05	3.30E-05	1.81E-05	1.63E-06	2.36E-05	1.47E-05	1.47E-05	7.27E-06
832	257596.18	4084753.24	0.000017862	2.58E-04	1.90E-04	1.90E-04	1.06E-04	2.71E-06	3.94E-05	2.97E-05	2.97E-05	1.63E-05	1.47E-06	2.13E-05	1.32E-05	1.32E-05	6.55E-06
833	257571.85	4084754.24	0.000016233	2.35E-04	1.73E-04	1.73E-04	9.65E-05	2.46E-06	3.58E-05	2.70E-05	2.70E-05	1.49E-05	1.34E-06	1.94E-05	1.20E-05	1.20E-05	5.95E-06
834	257547.51	4084755.24	0.00001487	2.15E-04	1.59E-04	1.59E-04	8.84E-05	2.26E-06	3.28E-05	2.48E-05	2.48E-05	1.36E-05	1.23E-06	1.77E-05	1.10E-05	1.10E-05	5.45E-06
835	258371	4084680.64	0.000088681	1.28E-03	9.45E-04	9.45E-04	5.27E-04	1.35E-05	1.95E-04	1.48E-04	1.48E-04	8.12E-05	7.31E-06	1.06E-04	6.57E-05	6.57E-05	3.25E-05
836	258393.59	4084689	0.000092763	1.34E-03	9.89E-04	9.89E-04	5.51E-04	1.41E-05	2.04E-04	1.54E-04	1.54E-04	8.49E-05	7.65E-06	1.11E-04	6.87E-05	6.87E-05	3.40E-05
837	258416.18	4084697.36	0.000096592	1.40E-03	1.03E-03	1.03E-03	5.74E-04	1.47E-05	2.13E-04	1.61E-04	1.61E-04	8.84E-05	7.96E-06	1.15E-04	7.15E-05	7.15E-05	3.54E-05
838	258438.77	4084705.73	0.00010001	1.45E-03	1.07E-03	1.07E-03	5.94E-04	1.52E-05	2.20E-04	1.66E-04	1.66E-04	9.15E-05	8.24E-06	1.19E-04	7.41E-05	7.41E-05	3.67E-05
839	258461.37	4084714.09	0.00010279	1.49E-03	1.10E-03	1.10E-03	6.11E-04	1.56E-05	2.26E-04	1.71E-04	1.71E-04	9.41E-05	8.47E-06	1.23E-04	7.61E-05	7.61E-05	3.77E-05
840	258483.96	4084722.46	0.00010466	1.51E-03	1.12E-03	1.12E-03	6.22E-04	1.59E-05	2.31E-04	1.74E-04	1.74E-04	9.58E-05	8.63E-06	1.25E-04	7.75E-05	7.75E-05	3.84E-05
841	258506.55	4084730.82	0.00010531	1.52E-03	1.12E-03	1.12E-03	6.26E-04	1.60E-05	2.32E-04	1.75E-04	1.75E-04	9.64E-05	8.68E-06	1.26E-04	7.80E-05	7.80E-05	3.86E-05
842	258539.07	4084761.13	0.00011051	1.60E-03	1.18E-03	1.18E-03	6.57E-04	1.68E-05	2.44E-04	1.84E-04	1.84E-04	1.01E-04	9.11E-06	1.32E-04	8.18E-05	8.18E-05	4.05E-05
843	258549	4084783.08	0.00011468	1.66E-03	1.22E-03	1.22E-03	6.82E-04	1.74E-05	2.53E-04	1.91E-04	1.91E-04	1.05E-04	9.45E-06	1.37E-04	8.49E-05	8.49E-05	4.20E-05
844	258558.93	4084805.03	0.00011666	1.69E-03	1.24E-03	1.24E-03	6.93E-04	1.77E-05	2.57E-04	1.94E-04	1.94E-04	1.07E-04	9.62E-06	1.39E-04	8.64E-05	8.64E-05	4.28E-05
845	258568.86	4084826.98	0.0001162	1.68E-03	1.24E-03	1.24E-03	6.91E-04	1.76E-05	2.56E-04	1.93E-04	1.93E-04	1.06E-04	9.58E-06	1.39E-04	8.61E-05	8.61E-05	4.26E-05
846	258578.79	4084848.92	0.00011295	1.63E-03	1.20E-03	1.20E-03	6.71E-04	1.71E-05	2.49E-04	1.88E-04	1.88E-04	1.03E-04	9.31E-06	1.35E-04	8.36E-05	8.36E-05	4.14E-05
847	258588.71	4084870.87	0.00010718	1.55E-03	1.14E-03	1.14E-03	6.37E-04	1.63E-05	2.36E-04	1.78E-04	1.78E-04	9.81E-05	8.83E-06	1.28E-04	7.94E-05	7.94E-05	3.93E-05
848	258598.64	4084892.82	0.000099455	1.44E-03	1.06E-03	1.06E-03	5.91E-04	1.51E-05	2.19E-04	1.66E-04	1.66E-04	9.10E-05	8.20E-06	1.19E-04	7.37E-05	7.37E-05	3.65E-05
849	258348.41	4084672.27	0.000084445	1.22E-03	9.00E-04	9.00E-04	5.02E-04	1.28E-05	1.86E-04	1.41E-04	1.41E-04	7.73E-05	6.96E-06	1.01E-04	6.25E-05	6.25E-05	3.10E-05
850	258324.08	4084673.27	0.000084083	1.22E-03	8.96E-04	8.96E-04	5.00E-04	1.28E-05	1.85E-04	1.40E-04	1.40E-04	7.69E-05	6.93E-06	1.00E-04	6.23E-05	6.23E-05	3.08E-05
851	258299.75	4084674.27	0.000083501	1.21E-03	8.90E-04	8.90E-04	4.96E-04	1.27E-05	1.84E-04	1.39E-04	1.39E-04	7.64E-05	6.88E-06	9.96E-05	6.18E-05	6.18E-05	3.06E-05
852	258275.42	4084675.27	0.000082708	1.20E-03	8.82E-04	8.82E-04	4.92E-04	1.26E-05	1.82E-04	1.38E-04	1.38E-04	7.57E-05	6.82E-06	9.86E-05	6.13E-05	6.13E-05	3.03E-05
853	258251.08	4084676.27	0.000081714	1.18E-03	8.71E-04	8.71E-04	4.86E-04	1.24E-05	1.80E-04	1.36E-04	1.36E-04	7.48E-05	6.74E-06	9.74E-05	6.05E-05	6.05E-05	3.00E-05
854	258226.75	4084677.27	0.000080529	1.16E-03	8.58E-04	8.58E-04	4.79E-04	1.22E-05	1.77E-04	1.34E-04	1.34E-04	7.37E-05	6.64E-06	9.60E-05	5.96E-05	5.96E-05	2.95E-05
855	258202.42	4084678.27	0.000079167	1.15E-03	8.44E-04	8.44E-04	4.71E-04	1.20E-05	1.74E-04	1.32E-04	1.32E-04	7.24E-05	6.53E-06	9.44E-05	5.86E-05	5.86E-05	2.90E-05
856	258178.09	4084679.27	0.000077624	1.12E-03	8.28E-04	8.28E-04	4.61E-04	1.18E-05	1.71E-04	1.29E-04	1.29E-04	7.10E-05	6.40E-06	9.25E-05	5.75E-05	5.75E-05	2.85E-05
857	258153.76	4084680.27	0.000075898	1.10E-03	8.09E-04	8.09E-04	4.51E-04	1.15E-05	1.67E-04	1.26E-04	1.26E-04	6.95E-05	6.26E-06	9.05E-05	5.62E-05	5.62E-05	2.78E-05
858	258129.42	4084681.27	0.000073983	1.07E-03	7.89E-04	7.89E-04	4.40E-04	1.12E-05	1.63E-04	1.23E-04	1.23E-04	6.77E-05	6.10E-06	8.82E-05	5.48E-05	5.48E-05	2.71E-05
859	258105.09	4084682.27	0.00007187	1.04E-03	7.66E-04	7.66E-04	4.27E-04	1.09E-05	1.58E-04	1.20E-04	1.20E-04	6.58E-05	5.92E-06	8.57E-05	5.32E-05	5.32E-05	2.63E-05
860	258080.76	4084683.27	0.000069559	1.01E-03	7.42E-04	7.42E-04	4.13E-04	1.06E-05	1.53E-04	1.16E-04	1.16E-04	6.37E-05	5.73E-06	8.29E-05	5.15E-05	5.15E-05	2.55E-05
861	258056.43	4084684.27	0.000067046	9.70E-04	7.15E-04	7.15E-04	3.98E-04	1.02E-05	1.48E-04	1.12E-04	1.12E-04	6.14E-05	5.53E-06	7.99E-05	4.97E-05	4.97E-05	2.46E-05
862	258032.1	4084685.27	0.000064333	9.30E-04	6.86E-04	6.86E-04	3.82E-04	9.76E-06	1.42E-04	1.07E-04	1.07E-04	5.89E-05	5.30E-06	7.67E-05	4.76E-05	4.76E-05	2.36E-05
863	258007.77	4084686.28	0.00006143	8.88E-04	6.55E-04	6.55E-04	3.65E-04	9.32E-06	1.35E-04	1.02E-04	1.02E-04	5.62E-05	5.06E-06	7.32E-05	4.55E-05	4.55E-05	2.25E-05
864	257983.43	4084687.28	0.000058334	8.44E-04	6.22E-04	6.22E-04	3.47E-04	8.85E-06	1.29E-04	9.71E-05	9.71E-05	5.34E-05	4.81E-06	6.95E-05	4.32E-05	4.32E-05	2.14E-05
865	257959.1	4084688.28	0.000055094	7.97E-04	5.87E-04	5.87E-04	3.27E-04	8.36E-06	1.21E-04	9.17E-05	9.17E-05	5.04E-05	4.54E-06	6.57E-05	4.08E-05	4.08E-05	2.02E-05
866	257934.77	4084689.28	0.000051686	7.48E-04	5.51E-04	5.51E-04	3.07E-04	7.84E-06	1.14E-04	8.60E-05	8.60E-05	4.73E-05	4.26E-06	6.16E-05	3.83E-05	3.83E-05	1.89E-05
867	257910.44	4084690.28	0.000048143	6.96E-04	5.13E-04	5.13E-04	2.86E-04	7.31E-06	1.06E-04	8.01E-05	8.01E-05	4.41E-05	3.97E-06	5.74E-05	3.57E-05	3.57E-05	1.76E-05
868	257886.11	4084691.28	0.000044521	6.44E-04	4.75E-04	4.75E-04	2.65E-04	6.76E-06	9.81E-05	7.41E-05	7.41E-05	4.07E-05	3.67E-06	5.31E-05	3.30E-05	3.30E-05	1.63E-05
869	257861.77	4084692.28	0.000040871	5.91E-04	4.36E-04	4.36E-04	2.43E-04	6.20E-06	9.01E-05	6.80E-05	6.80E-05	3.74E-05	3.37E-06	4.87E-05	3.03E-05	3.03E-05	1.50E-05
870	257837.44	4084693.28	0.000037257	5.39E-04	3.97E-04	3.97E-04	2.21E-04	5.65E-06	8.21E-05	6.20E-05	6.20E-05	3.41E-05	3.07E-06	4.44E-05	2.76E-05	2.76E-05	1.37E-05
871	257813.11	4084694.28	0.00003374	4.88E-04	3.60E-04	3.60E-04	2.01E-04	5.12E-06	7.43E-05	5.62E-05	5.62E-05	3.09E-05	2.78E-06	4.02E-05	2.50E-05	2.50E-05	1.24E-05
872	257788.78	4084695.28	0.00003039	4.40E-04	3.24E-04	3.24E-04	1.81E-04	4.61E-06	6.70E-05	5.06E-05	5.06E-05	2.78E-05	2.51E-06	3.62E-05	2.25E-05	2.25E-05	1.11E-05
873	257764.45	4084696.28	0.000027267	3.94E-04	2.91E-04	2.91E-04	1.62E-04	4.14E-06	6.01E-05	4.54E-05	4.54E-05	2.50E-05	2.25E-06	3.25E-05	2.02E-05	2.02E-05	1.00E-05
874	257740.12	4084697.28	0.000024417	3.53E-04	2.60E-04	2.60E-04	1.45E-04	3.71E-06	5.38E-05	4.06E-05	4.06E-05	2.23E-05	2.01E-06	2.91E-05	1.81E-05	1.81E-05	8.95E-06
875	257715.78	4084698.28	0.00002187	3.16E-04	2.33E-04	2.33E-04	1.30E-04	3.32E-06	4.82E-05	3.64E-05	3.64E-05	2.00E-05	1.80E-06	2.61E-05	1.62E-05	1.62E-05	8.02E-06
876	257691.45	4084699.28	0.000019636	2.84E-04	2.09E-04	2.09E-04	1.17E-04	2.98E-06	4.33E-05	3.27E-05	3.27E-05	1.80E-05	1.62E-06	2.34E-05	1.45E-05	1.45E-05	7.20E-06
877	257667.12	4084700.28	0.00001771	2.56E-04	1.89E-04	1.89E-04	1.05E-04	2.69E-06	3.90E-05	2.95E-05	2.95E-05	1.62E-05	1.46E-06	2.11E-05	1.31E-05	1.31E-05	6.49E-06
878	257642.79	4084701.28	0.000016065	2.32E-04	1.71E-04	1.71E-04	9.55E-05	2.44E-06	3.54E-05	2.67E-05	2.67E-05	1.47E-05	1.32E-06	1.92E-05	1.19E-05	1.19E-05	5.89E-06
879	257618.46	4084702.28	0.000014667	2.12E-04	1.56E-04	1.56E-04	8.72E-05	2.23E-06	3.23E-05	2.44E-05	2.44E-05	1.34E-05	1.21E-06	1.75E-05	1.09E-05	1.09E-05	5.38E-06
880	257594.12	4084703.28	0.000013477	1.95E-04	1.44E-04	1.44E-04	8.01E-05	2.05E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.61E-05	9.98E-06	9.98E-06	4.94E-06
881	257569.79	4084704.28	0.000012458	1.80E-04	1.33E-04	1.33E-04	7.40E-05	1.89E-06	2.75E-05	2.07E-05	2.07E-05	1.14E-05	1.03E-06	1.49E-05	9.23E-06	9.23E-06	4.57E-06
882	257545.46	4084705.28	0.000011581	1.68E-04	1.23E-04	1.23E-04	6.88E-05	1.76E-06	2.55E-05	1.93E-05	1.93E-05	1.06E-05	9.55E-07	1.38E-05	8.58E-06	8.58E-06	4.25E-06
883	258368.04	4084630.34	0.000069075	9.99E-04	7.36E-04	7.36E-04	4.11E-04	1.05E-05	1.52E-04	1.15E-04	1.15E-04	6.32E-05	5.69E-06	8.24E-05	5.12E-05	5.12E-05	2.53E-05
884	258389.73	4084638.37	0.000072317	1.05E-03	7.71E-04	7.71E-04	4.30E-04	1.10E-05	1.59E-04	1.20E-04	1.20E-04	6.62E-05	5.96E-06	8.62E-05	5.36E-05	5.36E-05	2.65E-05
885	258411.42	4084646.4	0.000075433	1.09E-03	8.04E-04	8.04E-04	4.48E-04	1.14E-05	1.66E-04	1.26E-04	1.26E-04	6.90E-05	6.22E-06	8.99E-05	5.59E-05	5.59E-05	2.77E-05
886	258433.11	4084654.43	0.000078368	1.13E-03	8.35E-04	8.35E-04	4.66E-04	1.19E-05	1.73E-04	1.30E-04	1.30E-04	7.17E-05	6.46E-06	9.34E-05	5.80E-05	5.80E-05	2.87E-05
887	258454.79	4084662.46	0.000081034	1.17E-03	8.64E-04	8.64E-04	4.82E-04	1.23E-05	1.79E-04	1.35E-04	1.35E-04	7.42E-05	6.68E-06	9.66E-05	6.00E-05	6.00E-05	2.97E-05
888	258476.48	4084670.49	0.00008332	1.21E-03	8.88E-04	8.88E-04	4.95E-04	1.26E-05	1.84E-04	1.39E-04	1.39E-04	7.62E-05	6.87E-06	9.93E-05	6.17E-05	6.17E-05	3.05E-05
889	258498.17	4084678.52	0.000085093	1.23E-03	9.07E-04	9.07E-04	5.06E-04	1.29E-05	1.87E-04	1.42E-04	1.42E-04	7.79E-05	7.01E-06	1.01E-04	6.30E-05	6.30E-05	3.12E-05
890	258519.86	4084686.55	0.000086203	1.25E-03	9.19E-04	9.19E-04	5.12E-04	1.31E-05	1.90E-04	1.43E-04	1.43E-04	7.89E-05	7.11E-06	1.03E-04	6.38E-05	6.38E-05	3.16E-05
891	258541.54	4084694.58	0.000086511	1.25E-03	9.22E-04	9.22E-04	5.14E-04	1.31E-05	1.91E-04	1.44E-04	1.44E-04	7.92E-05	7.13E-06	1.03E-04	6.41E-05	6.41E-05	3.17E-05
892	258572.76	4084723.68	0.00009015	1.30E-03	9.61E-04	9.61E-04	5.36E-04	1.37E-05	1.99E-04	1.50E-04	1.50E-04	8.25E-05	7.43E-06	1.07E-04	6.68E-05	6.68E-05	3.30E-05
893	258582.29	4084744.75	0.000093453	1.35E-03	9.96E-04	9.96E-04	5.55E-04	1.42E-05	2.06E-04	1.56E-04	1.56E-04	8.55E-05	7.70E-06	1.11E-04	6.92E-05	6.92E-05	3.43E-05
894	258591.83	4084765.82	0.000095111	1.38E-03	1.01E-03	1.01E-03	5.65E-04	1.44E-05	2.10E-04	1.58E-04	1.58E-04	8.70E-05	7.84E-06	1.13E-04	7.04E-05	7.04E-05	3.49E-05
895	258601.36	4084786.89	0.00009557	1.38E-03	1.02E-03	1.02E-03	5.68E-04	1.45E-05	2.11E-04	1.59E-04	1.59E-04	8.75E-05	7.88E-06	1.14E-04	7.08E-05	7.08E-05	3.50E-05
896	258610.89	4084807.96	0.000094322	1.36E-03	1.01E-03	1.01E-03	5.61E-04	1.43E-05	2.08E-04	1.57E-04	1.57E-04	8.63E-05	7.77E-06	1.12E-04	6.99E-05	6.99E-05	3.46E-05
897	258620.42	4084829.03	0.000091388	1.32E-03	9.74E-04	9.74E-04	5.43E-04	1.39E-05	2.01E-04	1.52E-04	1.52E-04	8.36E-05	7.53E-06	1.09E-04	6.77E-05	6.77E-05	3.35E-05
898	258629.96	4084850.1	0.000086955	1.26E-03	9.27E-04	9.27E-04	5.17E-04	1.32E-05	1.92E-04	1.45E-04	1.45E-04	7.96E-05	7.17E-06	1.04E-04	6.44E-05	6.44E-05	3.19E-05
899	258639.49	4084871.17	0.000081355	1.18E-03	8.67E-04	8.67E-04	4.84E-04	1.23E-05	1.79E-04	1.35E-04	1.35E-04	7.44E-05	6.71E-06	9.70E-05	6.02E-05	6.02E-05	2.98E-05
900	258649.02	4084892.24	0.000074985	1.08E-03	7.99E-04	7.99E-04	4.46E-04	1.14E-05	1.65E-04	1.25E-04	1.25E-04	6.86E-05	6.18E-06	8.94E-05	5.55E-05	5.55E-05	2.75E-05
901	258346.36	4084622.31	0.000065758	9.51E-04	7.01E-04	7.01E-04	3.91E-04	9.98E-06	1.45E-04	1.09E-04	1.09E-04	6.02E-05	5.42E-06	7.84E-05	4.87E-05	4.87E-05	2.41E-05
902	258322.03	4084623.31	0.00006511	9.42E-04	6.94E-04	6.94E-04	3.87E-04	9.88E-06	1.43E-04	1.08E-04	1.08E-04	5.96E-05	5.37E-06	7.76E-05	4.82E-05	4.82E-05	2.39E-05
903	258297.69	4084624.31	0.000064323	9.30E-04	6.86E-04	6.86E-04	3.82E-04	9.76E-06	1.42E-04	1.07E-04	1.07E-04	5.89E-05	5.30E-06	7.67E-05	4.76E-05	4.76E-05	2.36E-05
904	258273.36	4084625.31	0.000063383	9.17E-04	6.76E-04	6.76E-04	3.77E-04	9.62E-06	1.40E-04	1.06E-04	1.06E-04	5.80E-05	5.22E-06	7.56E-05	4.69E-05	4.69E-05	2.32E-05
905	258249.03	4084626.31	0.000062254	9.00E-04	6.64E-04	6.64E-04	3.70E-04	9.45E-06	1.37E-04	1.04E-04	1.04E-04	5.70E-05	5.13E-06	7.42E-05	4.61E-05	4.61E-05	2.28E-05
906	258224.7	4084627.31	0.000061018	8.83E-04	6.50E-04	6.50E-04	3.63E-04	9.26E-06	1.34E-04	1.02E-04	1.02E-04	5.58E-05	5.03E-06	7.27E-05	4.52E-05	4.52E-05	2.24E-05
907	258200.37	4084628.32	0.000059612	8.62E-04	6.35E-04	6.35E-04	3.54E-04	9.05E-06	1.31E-04	9.92E-05	9.92E-05	5.46E-05	4.91E-06	7.11E-05	4.41E-05	4.41E-05	2.19E-05
908	258176.03	4084629.32	0.000058055	8.40E-04	6.19E-04	6.19E-04	3.45E-04	8.81E-06	1.28E-04	9.66E-05	9.66E-05	5.31E-05	4.79E-06	6.92E-05	4.30E-05	4.30E-05	2.13E-05
909	258151.7	4084630.32	0.00005636	8.15E-04	6.01E-04	6.01E-04	3.35E-04	8.55E-06	1.24E-04	9.38E-05	9.38E-05	5.16E-05	4.65E-06	6.72E-05	4.17E-05	4.17E-05	2.07E-05
910	258127.37	4084631.32	0.000054531	7.89E-04	5.81E-04	5.81E-04	3.24E-04	8.28E-06	1.20E-04	9.08E-05	9.08E-05	4.99E-05	4.49E-06	6.50E-05	4.04E-05	4.04E-05	2.00E-05
911	258103.04	4084632.32	0.000052512	7.60E-04	5.60E-04	5.60E-04	3.12E-04	7.97E-06	1.16E-04	8.74E-05	8.74E-05	4.81E-05	4.33E-06	6.26E-05	3.89E-05	3.89E-05	1.92E-05
912	258078.71	4084633.32	0.000050406	7.29E-04	5.37E-04	5.37E-04	3.00E-04	7.65E-06	1.11E-04	8.39E-05	8.39E-05	4.61E-05	4.15E-06	6.01E-05	3.73E-05	3.73E-05	1.85E-05
913	258054.38	4084634.32	0.000048178	6.97E-04	5.14E-04	5.14E-04	2.86E-04	7.31E-06	1.06E-04	8.02E-05	8.02E-05	4.41E-05	3.97E-06	5.74E-05	3.57E-05	3.57E-05	1.77E-05
914	258030.04	4084635.32	0.000045853	6.63E-04	4.89E-04	4.89E-04	2.73E-04	6.96E-06	1.01E-04	7.63E-05	7.63E-05	4.20E-05	3.78E-06	5.47E-05	3.40E-05	3.40E-05	1.68E-05
915	258005.71	4084636.32	0.000043449	6.28E-04	4.63E-04	4.63E-04	2.58E-04	6.59E-06	9.57E-05	7.23E-05	7.23E-05	3.98E-05	3.58E-06	5.18E-05	3.22E-05	3.22E-05	1.59E-05
916	257981.38	4084637.32	0.000040916	5.92E-04	4.36E-04	4.36E-04	2.43E-04	6.21E-06	9.02E-05	6.81E-05	6.81E-05	3.74E-05	3.37E-06	4.88E-05	3.03E-05	3.03E-05	1.50E-05
917	257957.05	4084638.32	0.00003832	5.54E-04	4.09E-04	4.09E-04	2.28E-04	5.82E-06	8.44E-05	6.38E-05	6.38E-05	3.51E-05	3.16E-06	4.57E-05	2.84E-05	2.84E-05	1.40E-05
918	257932.72	4084639.32	0.000035691	5.16E-04	3.80E-04	3.80E-04	2.12E-04	5.42E-06	7.86E-05	5.94E-05	5.94E-05	3.27E-05	2.94E-06	4.26E-05	2.64E-05	2.64E-05	1.31E-05
919	257908.38	4084640.32	0.00003306	4.78E-04	3.52E-04	3.52E-04	1.96E-04	5.02E-06	7.28E-05	5.50E-05	5.50E-05	3.03E-05	2.73E-06	3.94E-05	2.45E-05	2.45E-05	1.21E-05
920	257884.05	4084641.32	0.000030462	4.41E-04	3.25E-04	3.25E-04	1.81E-04	4.62E-06	6.71E-05	5.07E-05	5.07E-05	2.79E-05	2.51E-06	3.63E-05	2.26E-05	2.26E-05	1.12E-05
921	257859.72	4084642.32	0.000027935	4.04E-04	2.98E-04	2.98E-04	1.66E-04	4.24E-06	6.16E-05	4.65E-05	4.65E-05	2.56E-05	2.30E-06	3.33E-05	2.07E-05	2.07E-05	1.02E-05
922	257835.39	4084643.32	0.000025515	3.69E-04	2.72E-04	2.72E-04	1.52E-04	3.87E-06	5.62E-05	4.25E-05	4.25E-05	2.33E-05	2.10E-06	3.04E-05	1.89E-05	1.89E-05	9.35E-06
923	257811.06	4084644.32	0.000023237	3.36E-04	2.48E-04	2.48E-04	1.38E-04	3.53E-06	5.12E-05	3.87E-05	3.87E-05	2.13E-05	1.92E-06	2.77E-05	1.72E-05	1.72E-05	8.52E-06
924	257786.73	4084645.32	0.000021122	3.06E-04	2.25E-04	2.25E-04	1.26E-04	3.21E-06	4.65E-05	3.52E-05	3.52E-05	1.93E-05	1.74E-06	2.52E-05	1.56E-05	1.56E-05	7.74E-06
925	257762.39	4084646.32	0.000019192	2.78E-04	2.05E-04	2.05E-04	1.14E-04	2.91E-06	4.23E-05	3.19E-05	3.19E-05	1.76E-05	1.58E-06	2.29E-05	1.42E-05	1.42E-05	7.04E-06
926	257738.06	4084647.32	0.000017454	2.52E-04	1.86E-04	1.86E-04	1.04E-04	2.65E-06	3.85E-05	2.91E-05	2.91E-05	1.60E-05	1.44E-06	2.08E-05	1.29E-05	1.29E-05	6.40E-06
927	257713.73	4084648.32	0.000015911	2.30E-04	1.70E-04	1.70E-04	9.46E-05	2.41E-06	3.51E-05	2.65E-05	2.65E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.83E-06
928	257689.4	4084649.32	0.000014549	2.10E-04	1.55E-04	1.55E-04	8.65E-05	2.21E-06	3.21E-05	2.42E-05	2.42E-05	1.33E-05	1.20E-06	1.73E-05	1.08E-05	1.08E-05	5.33E-06
929	257665.07	4084650.32	0.00001336	1.93E-04	1.42E-04	1.42E-04	7.94E-05	2.03E-06	2.94E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.89E-06	9.89E-06	4.90E-06
930	257640.73	4084651.32	0.000012327	1.78E-04	1.31E-04	1.31E-04	7.33E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.13E-06	9.13E-06	4.52E-06
931	257616.4	4084652.32	0.00001143	1.65E-04	1.22E-04	1.22E-04	6.79E-05	1.73E-06	2.52E-05	1.90E-05	1.90E-05	1.05E-05	9.42E-07	1.36E-05	8.46E-06	8.46E-06	4.19E-06
932	257592.07	4084653.32	0.000010647	1.54E-04	1.14E-04	1.14E-04	6.33E-05	1.62E-06	2.35E-05	1.77E-05	1.77E-05	9.74E-06	8.78E-07	1.27E-05	7.88E-06	7.88E-06	3.90E-06

933	257567.74	4084654.32	9.9566E-06	1.44E-04	1.06E-04	1.06E-04	5.92E-05	1.51E-06	2.19E-05	1.66E-05	1.66E-05	9.11E-06	8.21E-07	1.19E-05	7.37E-06	7.37E-06	3.65E-06
934	257543.41	4084655.32	0.000009348	1.35E-04	9.97E-05	9.97E-05	5.56E-05	1.42E-06	2.06E-05	1.56E-05	1.56E-05	8.55E-06	7.71E-07	1.11E-05	6.92E-06	6.92E-06	3.43E-06
935	258364.49	4084530.63	0.000043621	6.31E-04	4.65E-04	4.65E-04	2.59E-04	6.62E-06	9.61E-05	7.26E-05	7.26E-05	3.99E-05	3.60E-06	5.20E-05	3.23E-05	3.23E-05	1.60E-05
936	258386.74	4084538.87	0.000046014	6.66E-04	4.91E-04	4.91E-04	2.73E-04	6.98E-06	1.01E-04	7.66E-05	7.66E-05	4.21E-05	3.79E-06	5.49E-05	3.41E-05	3.41E-05	1.69E-05
937	258408.98	4084547.1	0.000048371	7.00E-04	5.16E-04	5.16E-04	2.87E-04	7.34E-06	1.07E-04	8.05E-05	8.05E-05	4.43E-05	3.99E-06	5.77E-05	3.58E-05	3.58E-05	1.77E-05
938	258431.22	4084555.34	0.000050668	7.33E-04	5.40E-04	5.40E-04	3.01E-04	7.69E-06	1.12E-04	8.43E-05	8.43E-05	4.64E-05	4.18E-06	6.04E-05	3.75E-05	3.75E-05	1.86E-05
939	258453.47	4084563.57	0.000052869	7.65E-04	5.64E-04	5.64E-04	3.14E-04	8.02E-06	1.16E-04	8.80E-05	8.80E-05	4.84E-05	4.36E-06	6.30E-05	3.92E-05	3.92E-05	1.94E-05
940	258475.71	4084571.81	0.000054944	7.95E-04	5.86E-04	5.86E-04	3.27E-04	8.34E-06	1.21E-04	9.15E-05	9.15E-05	5.03E-05	4.53E-06	6.55E-05	4.07E-05	4.07E-05	2.01E-05
941	258497.95	4084580.04	0.000056844	8.22E-04	6.06E-04	6.06E-04	3.38E-04	8.63E-06	1.25E-04	9.46E-05	9.46E-05	5.20E-05	4.69E-06	6.78E-05	4.21E-05	4.21E-05	2.08E-05
942	258520.2	4084588.28	0.000058526	8.46E-04	6.24E-04	6.24E-04	3.48E-04	8.88E-06	1.29E-04	9.74E-05	9.74E-05	5.36E-05	4.82E-06	6.98E-05	4.33E-05	4.33E-05	2.15E-05
943	258542.44	4084596.52	0.000059924	8.67E-04	6.39E-04	6.39E-04	3.56E-04	9.09E-06	1.32E-04	9.97E-05	9.97E-05	5.48E-05	4.94E-06	7.14E-05	4.44E-05	4.44E-05	2.20E-05
944	258564.68	4084604.75	0.000060975	8.82E-04	6.50E-04	6.50E-04	3.62E-04	9.25E-06	1.34E-04	1.01E-04	1.01E-04	5.58E-05	5.03E-06	7.27E-05	4.52E-05	4.52E-05	2.24E-05
945	258586.93	4084612.99	0.000061614	8.91E-04	6.57E-04	6.57E-04	3.66E-04	9.35E-06	1.36E-04	1.03E-04	1.03E-04	5.64E-05	5.08E-06	7.35E-05	4.56E-05	4.56E-05	2.26E-05
946	258609.17	4084621.22	0.000061782	8.94E-04	6.59E-04	6.59E-04	3.67E-04	9.38E-06	1.36E-04	1.03E-04	1.03E-04	5.65E-05	5.09E-06	7.37E-05	4.58E-05	4.58E-05	2.26E-05
947	258641.19	4084651.07	0.000064069	9.27E-04	6.83E-04	6.83E-04	3.81E-04	9.72E-06	1.41E-04	1.07E-04	1.07E-04	5.86E-05	5.28E-06	7.64E-05	4.74E-05	4.74E-05	2.35E-05
948	258650.97	4084672.68	0.00006619	9.57E-04	7.06E-04	7.06E-04	3.93E-04	1.00E-05	1.46E-04	1.10E-04	1.10E-04	6.06E-05	5.46E-06	7.89E-05	4.90E-05	4.90E-05	2.43E-05
949	258660.74	4084694.29	0.000067559	9.77E-04	7.20E-04	7.20E-04	4.02E-04	1.03E-05	1.49E-04	1.12E-04	1.12E-04	6.18E-05	5.57E-06	8.05E-05	5.00E-05	5.00E-05	2.48E-05
950	258670.52	4084715.9	0.000068112	9.85E-04	7.26E-04	7.26E-04	4.05E-04	1.03E-05	1.50E-04	1.13E-04	1.13E-04	6.23E-05	5.61E-06	8.12E-05	5.04E-05	5.04E-05	2.50E-05
951	258680.3	4084737.51	0.000067913	9.82E-04	7.24E-04	7.24E-04	4.04E-04	1.03E-05	1.50E-04	1.13E-04	1.13E-04	6.21E-05	5.60E-06	8.10E-05	5.03E-05	5.03E-05	2.49E-05
952	258690.07	4084759.12	0.000066796	9.66E-04	7.12E-04	7.12E-04	3.97E-04	1.01E-05	1.47E-04	1.11E-04	1.11E-04	6.11E-05	5.51E-06	7.96E-05	4.95E-05	4.95E-05	2.45E-05
953	258699.85	4084780.73	0.000064792	9.37E-04	6.91E-04	6.91E-04	3.85E-04	9.83E-06	1.43E-04	1.08E-04	1.08E-04	5.93E-05	5.34E-06	7.72E-05	4.80E-05	4.80E-05	2.38E-05
954	258709.63	4084802.34	0.000062008	8.97E-04	6.61E-04	6.61E-04	3.69E-04	9.41E-06	1.37E-04	1.03E-04	1.03E-04	5.67E-05	5.11E-06	7.39E-05	4.59E-05	4.59E-05	2.27E-05
955	258719.4	4084823.95	0.00005859	8.47E-04	6.25E-04	6.25E-04	3.48E-04	8.89E-06	1.29E-04	9.75E-05	9.75E-05	5.36E-05	4.83E-06	6.99E-05	4.34E-05	4.34E-05	2.15E-05
956	258729.18	4084845.56	0.000054725	7.92E-04	5.83E-04	5.83E-04	3.25E-04	8.31E-06	1.21E-04	9.11E-05	9.11E-05	5.01E-05	4.51E-06	6.52E-05	4.05E-05	4.05E-05	2.01E-05
957	258738.96	4084867.17	0.000050617	7.32E-04	5.40E-04	5.40E-04	3.01E-04	7.68E-06	1.12E-04	8.43E-05	8.43E-05	4.63E-05	4.17E-06	6.03E-05	3.75E-05	3.75E-05	1.86E-05
958	258748.73	4084888.78	0.000046451	6.72E-04	4.95E-04	4.95E-04	2.76E-04	7.05E-06	1.02E-04	7.73E-05	7.73E-05	4.25E-05	3.83E-06	5.54E-05	3.44E-05	3.44E-05	1.70E-05
959	258342.25	4084522.4	0.000041242	5.97E-04	4.40E-04	4.40E-04	2.45E-04	6.26E-06	9.09E-05	6.86E-05	6.86E-05	3.77E-05	3.40E-06	4.92E-05	3.05E-05	3.05E-05	1.51E-05
960	258317.92	4084523.4	0.000040406	5.84E-04	4.31E-04	4.31E-04	2.40E-04	6.13E-06	8.90E-05	6.73E-05	6.73E-05	3.70E-05	3.33E-06	4.82E-05	2.99E-05	2.99E-05	1.48E-05
961	258293.59	4084524.4	0.000039476	5.71E-04	4.21E-04	4.21E-04	2.35E-04	5.99E-06	8.70E-05	6.57E-05	6.57E-05	3.61E-05	3.25E-06	4.71E-05	2.92E-05	2.92E-05	1.45E-05
962	258269.25	4084525.4	0.000038453	5.56E-04	4.10E-04	4.10E-04	2.29E-04	5.84E-06	8.47E-05	6.40E-05	6.40E-05	3.52E-05	3.17E-06	4.58E-05	2.85E-05	2.85E-05	1.41E-05
963	258244.92	4084526.4	0.000037343	5.40E-04	3.98E-04	3.98E-04	2.22E-04	5.67E-06	8.23E-05	6.22E-05	6.22E-05	3.42E-05	3.08E-06	4.45E-05	2.77E-05	2.77E-05	1.37E-05
964	258220.59	4084527.4	0.000036148	5.23E-04	3.85E-04	3.85E-04	2.15E-04	5.49E-06	7.97E-05	6.02E-05	6.02E-05	3.31E-05	2.98E-06	4.31E-05	2.68E-05	2.68E-05	1.33E-05
965	258196.26	4084528.4	0.00003488	5.04E-04	3.72E-04	3.72E-04	2.07E-04	5.29E-06	7.69E-05	5.81E-05	5.81E-05	3.19E-05	2.88E-06	4.16E-05	2.58E-05	2.58E-05	1.28E-05
966	258171.93	4084529.4	0.000033546	4.85E-04	3.58E-04	3.58E-04	1.99E-04	5.09E-06	7.39E-05	5.58E-05	5.58E-05	3.07E-05	2.77E-06	4.00E-05	2.48E-05	2.48E-05	1.23E-05
967	258147.59	4084530.4	0.000032152	4.65E-04	3.43E-04	3.43E-04	1.91E-04	4.88E-06	7.08E-05	5.35E-05	5.35E-05	2.94E-05	2.65E-06	3.83E-05	2.38E-05	2.38E-05	1.18E-05
968	258123.26	4084531.4	0.000030714	4.44E-04	3.27E-04	3.27E-04	1.83E-04	4.66E-06	6.77E-05	5.11E-05	5.11E-05	2.81E-05	2.53E-06	3.66E-05	2.27E-05	2.27E-05	1.13E-05
969	258098.93	4084532.4	0.000029234	4.23E-04	3.12E-04	3.12E-04	1.74E-04	4.44E-06	6.44E-05	4.87E-05	4.87E-05	2.68E-05	2.41E-06	3.49E-05	2.17E-05	2.17E-05	1.07E-05
970	258074.6	4084533.4	0.000027724	4.01E-04	2.96E-04	2.96E-04	1.65E-04	4.21E-06	6.11E-05	4.61E-05	4.61E-05	2.54E-05	2.29E-06	3.31E-05	2.05E-05	2.05E-05	1.02E-05
971	258050.27	4084534.4	0.000026196	3.79E-04	2.79E-04	2.79E-04	1.56E-04	3.98E-06	5.77E-05	4.36E-05	4.36E-05	2.40E-05	2.16E-06	3.12E-05	1.94E-05	1.94E-05	9.60E-06
972	258025.94	4084535.4	0.000024659	3.57E-04	2.63E-04	2.63E-04	1.47E-04	3.74E-06	5.43E-05	4.10E-05	4.10E-05	2.26E-05	2.03E-06	2.94E-05	1.83E-05	1.83E-05	9.04E-06
973	258001.6	4084536.4	0.000023128	3.35E-04	2.47E-04	2.47E-04	1.37E-04	3.51E-06	5.10E-05	3.85E-05	3.85E-05	2.12E-05	1.91E-06	2.76E-05	1.71E-05	1.71E-05	8.48E-06
974	257977.27	4084537.4	0.000021616	3.13E-04	2.30E-04	2.30E-04	1.28E-04	3.28E-06	4.76E-05	3.60E-05	3.60E-05	1.98E-05	1.78E-06	2.58E-05	1.60E-05	1.60E-05	7.92E-06
975	257952.94	4084538.4	0.000020143	2.91E-04	2.15E-04	2.15E-04	1.20E-04	3.06E-06	4.44E-05	3.35E-05	3.35E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.38E-06
976	257928.61	4084539.4	0.000018721	2.71E-04	2.00E-04	2.00E-04	1.11E-04	2.84E-06	4.12E-05	3.12E-05	3.12E-05	1.71E-05	1.54E-06	2.23E-05	1.39E-05	1.39E-05	6.86E-06
977	257904.28	4084540.4	0.000017364	2.51E-04	1.85E-04	1.85E-04	1.03E-04	2.64E-06	3.83E-05	2.89E-05	2.89E-05	1.59E-05	1.43E-06	2.07E-05	1.29E-05	1.29E-05	6.37E-06
978	257879.94	4084541.4	0.000016087	2.33E-04	1.72E-04	1.72E-04	9.56E-05	2.44E-06	3.54E-05	2.68E-05	2.68E-05	1.47E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.90E-06
979	257855.61	4084542.4	0.000014899	2.15E-04	1.59E-04	1.59E-04	8.86E-05	2.26E-06	3.28E-05	2.48E-05	2.48E-05	1.36E-05	1.23E-06	1.78E-05	1.10E-05	1.10E-05	5.46E-06
980	257831.28	4084543.4	0.000013805	2.00E-04	1.47E-04	1.47E-04	8.20E-05	2.10E-06	3.04E-05	2.30E-05	2.30E-05	1.26E-05	1.14E-06	1.65E-05	1.02E-05	1.02E-05	5.06E-06
981	257806.95	4084544.4	0.000012803	1.85E-04	1.36E-04	1.36E-04	7.61E-05	1.94E-06	2.82E-05	2.13E-05	2.13E-05	1.17E-05	1.06E-06	1.53E-05	9.48E-06	9.48E-06	4.69E-06
982	257782.62	4084545.4	0.000011895	1.72E-04	1.27E-04	1.27E-04	7.07E-05	1.81E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.80E-07	1.42E-05	8.81E-06	8.81E-06	4.36E-06
983	257758.29	4084546.4	0.000011075	1.60E-04	1.18E-04	1.18E-04	6.58E-05	1.68E-06	2.44E-05	1.84E-05	1.84E-05	1.01E-05	9.13E-07	1.32E-05	8.20E-06	8.20E-06	4.06E-06
984	257733.95	4084547.41	0.000010338	1.50E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.46E-06	8.52E-07	1.23E-05	7.66E-06	7.66E-06	3.79E-06
985	257709.62	4084548.41	9.6779E-06	1.40E-04	1.03E-04	1.03E-04	5.75E-05	1.47E-06	2.13E-05	1.61E-05	1.61E-05	8.86E-06	7.98E-07	1.15E-05	7.17E-06	7.17E-06	3.55E-06
986	257685.29	4084549.41	9.0877E-06	1.31E-04	9.69E-05	9.69E-05	5.40E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.32E-06	7.49E-07	1.08E-05	6.73E-06	6.73E-06	3.33E-06
987	257660.96	4084550.41	8.5591E-06	1.24E-04	9.12E-05	9.12E-05	5.09E-05	1.30E-06	1.89E-05	1.42E-05	1.42E-05	7.83E-06	7.06E-07	1.02E-05	6.34E-06	6.34E-06	3.14E-06
988	257636.63	4084551.41	8.0837E-06	1.17E-04	8.62E-05	8.62E-05	4.80E-05	1.23E-06	1.78E-05	1.35E-05	1.35E-05	7.40E-06	6.66E-07	9.64E-06	5.99E-06	5.99E-06	2.96E-06
989	257612.29	4084552.41	7.6554E-06	1.11E-04	8.16E-05	8.16E-05	4.55E-05	1.16E-06	1.69E-05	1.27E-05	1.27E-05	7.01E-06	6.31E-07	9.13E-06	5.67E-06	5.67E-06	2.81E-06
990	257587.96	4084553.41	7.2661E-06	1.05E-04	7.75E-05	7.75E-05	4.32E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.65E-06	5.99E-07	8.66E-06	5.38E-06	5.38E-06	2.66E-06
991	257563.63	4084554.41	6.9116E-06	1.00E-04	7.37E-05	7.37E-05	4.11E-05	1.05E-06	1.52E-05	1.15E-05	1.15E-05	6.32E-06	5.70E-07	8.24E-06	5.12E-06	5.12E-06	2.53E-06
992	257539.3	4084555.41	6.5837E-06	9.52E-05	7.02E-05	7.02E-05	3.91E-05	9.99E-07	1.45E-05	1.10E-05	1.10E-05	6.02E-06	5.43E-07	7.85E-06	4.88E-06	4.88E-06	2.41E-06
993	258360.73	4084430.85	0.000028321	4.10E-04	3.02E-04	3.02E-04	1.68E-04	4.30E-06	6.24E-05	4.71E-05	4.71E-05	2.59E-05	2.33E-06	3.38E-05	2.10E-05	2.10E-05	1.04E-05
994	258383.32	4084439.21	0.000030118	4.36E-04	3.21E-04	3.21E-04	1.79E-04	4.57E-06	6.64E-05	5.01E-05	5.01E-05	2.76E-05	2.48E-06	3.59E-05	2.23E-05	2.23E-05	1.10E-05
995	258405.91	4084447.57	0.000031904	4.61E-04	3.40E-04	3.40E-04	1.90E-04	4.84E-06	7.03E-05	5.31E-05	5.31E-05	2.92E-05	2.63E-06	3.80E-05	2.36E-05	2.36E-05	1.17E-05
996	258428.51	4084455.94	0.000033685	4.87E-04	3.59E-04	3.59E-04	2.00E-04	5.11E-06	7.42E-05	5.61E-05	5.61E-05	3.08E-05	2.78E-06	4.02E-05	2.49E-05	2.49E-05	1.23E-05
997	258451.1	4084464.3	0.000035412	5.12E-04	3.78E-04	3.78E-04	2.10E-04	5.37E-06	7.80E-05	5.89E-05	5.89E-05	3.24E-05	2.92E-06	4.22E-05	2.62E-05	2.62E-05	1.30E-05
998	258473.69	4084472.67	0.000037117	5.37E-04	3.96E-04	3.96E-04	2.21E-04	5.63E-06	8.18E-05	6.18E-05	6.18E-05	3.40E-05	3.06E-06	4.43E-05	2.75E-05	2.75E-05	1.36E-05
999	258496.28	4084481.03	0.000038771	5.61E-04	4.13E-04	4.13E-04	2.30E-04	5.88E-06	8.54E-05	6.45E-05	6.45E-05	3.55E-05	3.20E-06	4.62E-05	2.87E-05	2.87E-05	1.42E-05
1000	258518.87	4084489.39	0.000040341	5.83E-04	4.30E-04	4.30E-04	2.40E-04	6.12E-06	8.89E-05	6.71E-05	6.71E-05	3.69E-05	3.33E-06	4.81E-05	2.99E-05	2.99E-05	1.48E-05
1001	258541.46	4084497.76	0.000041804	6.05E-04	4.46E-04	4.46E-04	2.48E-04	6.34E-06	9.21E-05	6.96E-05	6.96E-05	3.83E-05	3.45E-06	4.98E-05	3.10E-05	3.10E-05	1.53E-05
1002	258564.05	4084506.12	0.000043131	6.24E-04	4.60E-04	4.60E-04	2.56E-04	6.55E-06	9.50E-05	7.18E-05	7.18E-05	3.95E-05	3.56E-06	5.14E-05	3.19E-05	3.19E-05	1.58E-05
1003	258586.64	4084514.49	0.000044291	6.41E-04	4.72E-04	4.72E-04	2.63E-04	6.72E-06	9.76E-05	7.37E-05	7.37E-05	4.05E-05	3.65E-06	5.28E-05	3.28E-05	3.28E-05	1.62E-05
1004	258609.23	4084522.85	0.000045248	6.54E-04	4.82E-04	4.82E-04	2.69E-04	6.87E-06	9.97E-05	7.53E-05	7.53E-05	4.14E-05	3.73E-06	5.39E-05	3.35E-05	3.35E-05	1.66E-05
1005	258631.82	4084531.21	0.000045965	6.65E-04	4.90E-04	4.90E-04	2.73E-04	6.98E-06	1.01E-04	7.65E-05	7.65E-05	4.21E-05	3.79E-06	5.48E-05	3.40E-05	3.40E-05	1.68E-05
1006	258654.41	4084539.58	0.000046414	6.71E-04	4.95E-04	4.95E-04	2.76E-04	7.04E-06	1.02E-04	7.73E-05	7.73E-05	4.25E-05	3.83E-06	5.53E-05	3.44E-05	3.44E-05	1.70E-05
1007	258677.01	4084547.94	0.000046557	6.73E-04	4.96E-04	4.96E-04	2.77E-04	7.07E-06	1.03E-04	7.75E-05	7.75E-05	4.26E-05	3.84E-06	5.55E-05	3.45E-05	3.45E-05	1.71E-05
1008	258709.53	4084578.25	0.000048029	6.95E-04	5.12E-04	5.12E-04	2.85E-04	7.29E-06	1.06E-04	7.99E-05	7.99E-05	4.40E-05	3.96E-06	5.73E-05	3.56E-05	3.56E-05	1.76E-05
1009	258719.46	4084600.2	0.000049504	7.16E-04	5.28E-04	5.28E-04	2.94E-04	7.51E-06	1.09E-04	8.24E-05	8.24E-05	4.53E-05	4.08E-06	5.90E-05	3.67E-05	3.67E-05	1.81E-05
1010	258729.38	4084622.15	0.000050606	7.32E-04	5.39E-04	5.39E-04	3.01E-04	7.68E-06	1.12E-04	8.42E-05	8.42E-05	4.63E-05	4.17E-06	6.03E-05	3.75E-05	3.75E-05	1.86E-05
1011	258739.31	4084644.1	0.000051272	7.42E-04	5.47E-04	5.47E-04	3.05E-04	7.78E-06	1.13E-04	8.53E-05	8.53E-05	4.69E-05	4.23E-06	6.11E-05	3.80E-05	3.80E-05	1.88E-05
1012	258749.24	4084666.05	0.000051447	7.44E-04	5.48E-04	5.48E-04	3.06E-04	7.81E-06	1.13E-04	8.56E-05	8.56E-05	4.71E-05	4.24E-06	6.13E-05	3.81E-05	3.81E-05	1.89E-05
1013	258759.17	4084687.99	0.000051094	7.39E-04	5.45E-04	5.45E-04	3.04E-04	7.75E-06	1.13E-04	8.50E-05	8.50E-05	4.68E-05	4.21E-06	6.09E-05	3.78E-05	3.78E-05	1.87E-05
1014	258769.1	4084709.94	0.000050205	7.26E-04	5.35E-04	5.35E-04	2.98E-04	7.62E-06	1.11E-04	8.36E-05	8.36E-05	4.59E-05	4.14E-06	5.99E-05	3.72E-05	3.72E-05	1.84E-05
1015	258779.03	4084731.89	0.000048805	7.06E-04	5.20E-04	5.20E-04	2.90E-04	7.41E-06	1.08E-04	8.12E-05	8.12E-05	4.47E-05	4.02E-06	5.82E-05	3.61E-05	3.61E-05	1.79E-05
1016	258788.96	4084753.84	0.000046951	6.79E-04	5.01E-04	5.01E-04	2.79E-04	7.13E-06	1.03E-04	7.81E-05	7.81E-05	4.30E-05	3.87E-06	5.60E-05	3.48E-05	3.48E-05	1.72E-05
1017	258798.89	4084775.79	0.000044724	6.47E-04	4.77E-04	4.77E-04	2.66E-04	6.79E-06	9.85E-05	7.44E-05	7.44E-05	4.09E-05	3.69E-06	5.33E-05	3.31E-05	3.31E-05	1.64E-05
1018	258808.82	4084797.73	0.000042213	6.11E-04	4.50E-04	4.50E-04	2.51E-04	6.41E-06	9.30E-05	7.03E-05	7.03E-05	3.86E-05	3.48E-06	5.03E-05	3.13E-05	3.13E-05	1.55E-05
1019	258818.75	4084819.68	0.000039525	5.72E-04	4.21E-04	4.21E-04	2.35E-04	6.00E-06	8.71E-05	6.58E-05	6.58E-05	3.62E-05	3.26E-06	4.71E-05	2.93E-05	2.93E-05	1.45E-05
1020	258828.68	4084841.63	0.000036769	5.32E-04	3.92E-04	3.92E-04	2.19E-04	5.58E-06	8.10E-05	6.12E-05	6.12E-05	3.36E-05	3.03E-06	4.38E-05	2.72E-05	2.72E-05	1.35E-05
1021	258838.61	4084863.58	0.000034038	4.92E-04	3.63E-04	3.63E-04	2.02E-04	5.17E-06	7.50E-05	5.67E-05	5.67E-05	3.11E-05	2.81E-06	4.06E-05	2.52E-05	2.52E-05	1.25E-05
1022	258848.54	4084885.53	0.000031394	4.54E-04	3.35E-04	3.35E-04	1.87E-04	4.76E-06	6.92E-05	5.23E-05	5.23E-05	2.87E-05	2.59E-06	3.74E-05	2.32E-05	2.32E-05	1.15E-05
1023	258338.14	4084422.48	0.000026554	3.84E-04	2.83E-04	2.83E-04	1.58E-04	4.03E-06	5.85E-05	4.42E-05	4.42E-05	2.43E-05	2.19E-06	3.17E-05	1.97E-05	1.97E-05	9.73E-06
1024	258313.81	4084423.48	0.000025767	3.73E-04	2.75E-04	2.75E-04	1.53E-04	3.91E-06	5.68E-05	4.29E-05	4.29E-05	2.36E-05	2.12E-06	3.07E-05	1.91E-05	1.91E-05	9.45E-06
1025	258289.48	4084424.48	0.000024935	3.61E-04	2.66E-04	2.66E-04	1.48E-04	3.78E-06	5.49E-05	4.15E-05	4.15E-05	2.28E-05	2.06E-06	2.97E-05	1.85E-05	1.85E-05	9.14E-06
1026	258265.15	4084425.48	0.00002406	3.48E-04	2.56E-04	2.56E-04	1.43E-04	3.65E-06	5.30E-05	4.00E-05	4.00E-05	2.20E-05	1.98E-06	2.87E-05	1.78E-05	1.78E-05	8.82E-06
1027	258240.81	4084426.48	0.000023145	3.35E-04	2.47E-04	2.47E-04	1.38E-04	3.51E-06	5.10E-05	3.85E-05	3.85E-05	2.12E-05	1.91E-06	2.76E-05	1.71E-05	1.71E-05	8.48E-06
1028	258216.48	4084427.48	0.000022196	3.21E-04	2.37E-04	2.37E-04	1.32E-04	3.37E-06	4.89E-05	3.69E-05	3.69E-05	2.03E-05	1.83E-06	2.65E-05	1.64E-05	1.64E-05	8.14E-06
1029	258192.15	4084428.48	0.000021222	3.07E-04	2.26E-04	2.26E-04	1.26E-04	3.22E-06	4.68E-05	3.53E-05	3.53E-05	1.94E-05	1.75E-06	2.53E-05	1.57E-05	1.57E-05	7.78E-06
1030	258167.82	4084429.48	0.000020229	2.93E-04	2.16E-04	2.16E-04	1.20E-04	3.07E-06	4.46E-05	3.37E-05	3.37E-05	1.85E-05	1.67E-06	2.41E-05	1.50E-05	1.50E-05	7.42E-06
1031	258143.49	4084430.48	0.000019229	2.78E-04	2.05E-04	2.05E-04	1.14E-04	2.92E-06	4.24E-05	3.20E-05	3.20E-05	1.76E-05	1.59E-06	2.29E-05	1.42E-05	1.42E-05	7.05E-06
1032	258119.16	4084431.48	0.000018231	2.64E-04	1.94E-04	1.94E-04	1.08E-04	2.77E-06	4.02E-05	3.03E-05	3.03E-05	1.67E-05	1.50E-06	2.17E-05	1.35E-05	1.35E-05	6.68E-06
1033	258094.82	4084432.49	0.000017241	2.49E-04	1.84E-04	1.84E-04	1.02E-04	2.62E-06	3.80E-05	2.87E-05	2.87E-05	1.58E-05	1.42E-06	2.06E-05	1.28E-05	1.28E-05	6.32E-06
1034	258070.49	4084433.49	0.000016274	2.35E-04	1.73E-04	1.73E-04	9.67E-05	2.47E-06	3.59E-05	2.71E-05	2.71E-05	1.49E-05	1.34E-06	1.94E-05	1.21E-05	1.21E-05	5.97E-06
1035	258046.16	4084434.49	0.000015327	2.22E-04	1.63E-04	1.63E-04	9.11E-05	2.33E-06	3.38E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.83E-05	1.14E-05	1.14E-05	5.62E-06
1036	258021.83	4084435.49	0.000014413	2.08E-04	1.54E-04	1.54E-04	8.57E-05	2.19E-06	3.18E-05	2.40E-05	2.40E-05	1.32E-05	1.19E-06	1.72E-05	1.07E-05	1.07E-05	5.28E-06
1037	257997.5	4084436.49	0.000013538	1.96E-04	1.44E-04	1.44E-04	8.05E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.12E-06	1.61E-05	1.00E-05	1.00E-05	4.96E-06
1038	257973.16	4084437.49	0.000012704	1.84E-04	1.35E-04	1.35E-04	7.55E-05	1.93E-06	2.80E-05	2.11E-05	2.11E-05	1.16E-05	1.05E-06	1.51E-05	9.41E-06	9.41E-06	4.66E-06
1039	257948.83	4084438.49	0.000011915	1.72E-04	1.27E-04	1.27E-04	7.08E-05	1.81E-06	2.63E-05	1.98E-05	1.98E-05	1.09E-05	9.82E-07	1.42E-05	8.82E-06	8.82E-06	4.37E-06
1040	257924.5	4084439.49	0.000011174	1.62E-04	1.19E-04	1.19E-04	6.64E-05	1.70E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.21E-07	1.33E-05	8.28E-06	8.28E-06	4.10E-06
1041	257900.17	4084440.49	0.000010481	1.52E-04	1.12E-04	1.12E-04	6.23E-05	1.59E-06	2.31E-05	1.74E-05	1.74E-05	9.59E-06	8.64E-07	1.25E-05	7.76E-06	7.76E-06	3.84E-06
1042	257875.84	4084441.49	9.8357E-06	1.42E-04	1.05E-04	1.05E-04	5.85E-05	1.49E-06	2.17E-05	1.64E-05	1.64E-05	9.00E-06	8.11E-07	1.17E-05	7.28E-06	7.28E-06	3.61E-06
1043	257851.51	4084442.49	9.2373E-06	1.34E-04	9.85E-05	9.85E-05	5.49E-05	1.40E-06	2.04E-05	1.54E-05	1.54E-05	8.45E-06	7.61E-07	1.10E-05	6.84E-06	6.84E-06	3.39E-06
1044	257827.17	4084443.49	8.6841E-06	1.26E-04	9.26E-05	9.26E-05	5.16E-05	1.32E-06	1.91E-05	1.45E-05	1.45E-05	7.95E-06	7.16E-07	1.04E-05	6.43E-06	6.43E-06	3.18E-06
1045	257802.84	4084444.49	8.1779E-06	1.18E-04	8.72E-05	8.72E-05	4.86E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.48E-06	6.74E-07	9.75E-06	6.06E-06	6.06E-06	3.00E-06
1046	257778.51	4084445.49	7.7169E-06	1.12E-04	8.23E-05	8.23E-05	4.59E-05	1.17E-06	1.70E-05	1.28E-05	1.28E-05	7.06E-06	6.36E-07	9.20E-06	5.71E-06	5.71E-06	2.83E-06
1047	257754.18	4084446.49	7.2989E-06	1.06E-04	7.78E-05	7.78E-05	4.34E-05	1.11E-06	1.61E-05	1.21E-05	1.21E-05	6.68E-06	6.02E-07	8.70E-06	5.41E-06	5.41E-06	2.68E-06
1048	257729.85	4084447.49	6.9239E-06	1.00E-04	7.38E-05	7.38E-05	4.12E-05	1.05E-06	1.53E-05	1.15E-05	1.15E-05	6.34E-06	5.71E-07	8.25E-06	5.13E-06	5.13E-06	2.54E-06
1049	257705.51	4084448.49	6.5837E-06	9.52E-05	7.02E-05	7.02E-05	3.91E-05	9.99E-07	1.45E-05	1.10E-05	1.10E-05	6.02E-06	5.43E-07	7.85E-06	4.88E-06	4.88E-06	2.41E-06

1050	257681.18	4084449.49	6.2784E-06	9.08E-05	6.69E-05	6.69E-05	3.73E-05	9.53E-07	1.38E-05	1.05E-05	1.05E-05	5.75E-06	5.18E-07	7.49E-06	4.65E-06	4.65E-06	2.30E-06
1051	257656.85	4084450.49	6.0038E-06	8.68E-05	6.40E-05	6.40E-05	3.57E-05	9.11E-07	1.32E-05	9.99E-06	9.99E-06	5.49E-06	4.95E-07	7.16E-06	4.45E-06	4.45E-06	2.20E-06
1052	257632.52	4084451.49	5.7539E-06	8.32E-05	6.13E-05	6.13E-05	3.42E-05	8.73E-07	1.27E-05	9.58E-06	9.58E-06	5.27E-06	4.74E-07	6.86E-06	4.26E-06	4.26E-06	2.11E-06
1053	257608.19	4084452.49	5.5264E-06	7.99E-05	5.89E-05	5.89E-05	3.28E-05	8.39E-07	1.22E-05	9.20E-06	9.20E-06	5.06E-06	4.56E-07	6.59E-06	4.09E-06	4.09E-06	2.03E-06
1054	257583.86	4084453.49	5.3154E-06	7.69E-05	5.67E-05	5.67E-05	3.16E-05	8.07E-07	1.17E-05	8.85E-06	8.85E-06	4.86E-06	4.38E-07	6.34E-06	3.94E-06	3.94E-06	1.95E-06
1055	257559.52	4084454.49	5.1186E-06	7.40E-05	5.46E-05	5.46E-05	3.04E-05	7.77E-07	1.13E-05	8.52E-06	8.52E-06	4.68E-06	4.22E-07	6.10E-06	3.79E-06	3.79E-06	1.88E-06
1056	257535.19	4084455.49	4.9342E-06	7.14E-05	5.26E-05	5.26E-05	2.93E-05	7.49E-07	1.09E-05	8.21E-06	8.21E-06	4.52E-06	4.07E-07	5.88E-06	3.65E-06	3.65E-06	1.81E-06
1057	258356.86	4084331.02	0.000018788	2.72E-04	2.00E-04	2.00E-04	1.12E-04	2.85E-06	4.14E-05	3.13E-05	3.13E-05	1.72E-05	1.55E-06	2.24E-05	1.39E-05	1.39E-05	6.89E-06
1058	258379.69	4084339.47	0.000020089	2.91E-04	2.14E-04	2.14E-04	1.19E-04	3.05E-06	4.43E-05	3.34E-05	3.34E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.36E-06
1059	258402.52	4084347.92	0.000021419	3.10E-04	2.28E-04	2.28E-04	1.27E-04	3.25E-06	4.72E-05	3.57E-05	3.57E-05	1.96E-05	1.77E-06	2.55E-05	1.59E-05	1.59E-05	7.85E-06
1060	258425.35	4084356.37	0.000022765	3.29E-04	2.43E-04	2.43E-04	1.35E-04	3.46E-06	5.02E-05	3.79E-05	3.79E-05	2.08E-05	1.88E-06	2.71E-05	1.69E-05	1.69E-05	8.35E-06
1061	258448.18	4084364.83	0.00002412	3.49E-04	2.57E-04	2.57E-04	1.43E-04	3.66E-06	5.31E-05	4.01E-05	4.01E-05	2.21E-05	1.99E-06	2.88E-05	1.79E-05	1.79E-05	8.84E-06
1062	258471.01	4084373.28	0.000025474	3.68E-04	2.72E-04	2.72E-04	1.51E-04	3.87E-06	5.61E-05	4.24E-05	4.24E-05	2.33E-05	2.10E-06	3.04E-05	1.89E-05	1.89E-05	9.34E-06
1063	258493.84	4084381.73	0.000026814	3.88E-04	2.86E-04	2.86E-04	1.59E-04	4.07E-06	5.91E-05	4.46E-05	4.46E-05	2.45E-05	2.21E-06	3.20E-05	1.99E-05	1.99E-05	9.83E-06
1064	258516.66	4084390.18	0.000028132	4.07E-04	3.00E-04	3.00E-04	1.67E-04	4.27E-06	6.20E-05	4.68E-05	4.68E-05	2.57E-05	2.32E-06	3.35E-05	2.08E-05	2.08E-05	1.03E-05
1065	258539.49	4084398.63	0.000029413	4.25E-04	3.14E-04	3.14E-04	1.75E-04	4.46E-06	6.48E-05	4.90E-05	4.90E-05	2.69E-05	2.42E-06	3.51E-05	2.18E-05	2.18E-05	1.08E-05
1066	258562.32	4084407.09	0.000030642	4.43E-04	3.27E-04	3.27E-04	1.82E-04	4.65E-06	6.75E-05	5.10E-05	5.10E-05	2.80E-05	2.53E-06	3.65E-05	2.27E-05	2.27E-05	1.12E-05
1067	258585.15	4084415.54	0.000031804	4.60E-04	3.39E-04	3.39E-04	1.89E-04	4.83E-06	7.01E-05	5.29E-05	5.29E-05	2.91E-05	2.62E-06	3.79E-05	2.36E-05	2.36E-05	1.17E-05
1068	258607.98	4084423.99	0.000032878	4.76E-04	3.50E-04	3.50E-04	1.95E-04	4.99E-06	7.24E-05	5.47E-05	5.47E-05	3.01E-05	2.71E-06	3.92E-05	2.43E-05	2.43E-05	1.21E-05
1069	258630.81	4084432.44	0.000033849	4.90E-04	3.61E-04	3.61E-04	2.01E-04	5.14E-06	7.46E-05	5.63E-05	5.63E-05	3.10E-05	2.79E-06	4.04E-05	2.51E-05	2.51E-05	1.24E-05
1070	258653.64	4084440.9	0.000034703	5.02E-04	3.70E-04	3.70E-04	2.06E-04	5.27E-06	7.65E-05	5.78E-05	5.78E-05	3.18E-05	2.86E-06	4.14E-05	2.57E-05	2.57E-05	1.27E-05
1071	258676.47	4084449.35	0.000035415	5.12E-04	3.78E-04	3.78E-04	2.10E-04	5.37E-06	7.80E-05	5.89E-05	5.89E-05	3.24E-05	2.92E-06	4.22E-05	2.62E-05	2.62E-05	1.30E-05
1072	258699.29	4084457.8	0.000035955	5.20E-04	3.83E-04	3.83E-04	2.14E-04	5.46E-06	7.92E-05	5.98E-05	5.98E-05	3.29E-05	2.96E-06	4.29E-05	2.66E-05	2.66E-05	1.32E-05
1073	258722.12	4084466.25	0.000036253	5.24E-04	3.86E-04	3.86E-04	2.15E-04	5.50E-06	7.99E-05	6.03E-05	6.03E-05	3.32E-05	2.99E-06	4.32E-05	2.68E-05	2.68E-05	1.33E-05
1074	258744.95	4084474.7	0.000036361	5.26E-04	3.88E-04	3.88E-04	2.16E-04	5.52E-06	8.01E-05	6.05E-05	6.05E-05	3.33E-05	3.00E-06	4.34E-05	2.69E-05	2.69E-05	1.33E-05
1075	258777.81	4084505.33	0.000037597	5.44E-04	4.01E-04	4.01E-04	2.23E-04	5.71E-06	8.28E-05	6.26E-05	6.26E-05	3.44E-05	3.10E-06	4.48E-05	2.78E-05	2.78E-05	1.38E-05
1076	258787.85	4084527.51	0.000038691	5.60E-04	4.12E-04	4.12E-04	2.30E-04	5.87E-06	8.53E-05	6.44E-05	6.44E-05	3.54E-05	3.19E-06	4.61E-05	2.87E-05	2.87E-05	1.42E-05
1077	258797.88	4084549.69	0.000039548	5.72E-04	4.22E-04	4.22E-04	2.35E-04	6.00E-06	8.71E-05	6.58E-05	6.58E-05	3.62E-05	3.26E-06	4.71E-05	2.93E-05	2.93E-05	1.45E-05
1078	258807.92	4084571.87	0.000040136	5.81E-04	4.28E-04	4.28E-04	2.39E-04	6.09E-06	8.84E-05	6.68E-05	6.68E-05	3.67E-05	3.31E-06	4.79E-05	2.97E-05	2.97E-05	1.47E-05
1079	258817.95	4084594.05	0.000040427	5.85E-04	4.31E-04	4.31E-04	2.40E-04	6.14E-06	8.91E-05	6.73E-05	6.73E-05	3.70E-05	3.33E-06	4.82E-05	2.99E-05	2.99E-05	1.48E-05
1080	258827.98	4084616.23	0.000040398	5.84E-04	4.31E-04	4.31E-04	2.40E-04	6.13E-06	8.90E-05	6.72E-05	6.72E-05	3.70E-05	3.33E-06	4.82E-05	2.99E-05	2.99E-05	1.48E-05
1081	258838.02	4084638.41	0.000040039	5.79E-04	4.27E-04	4.27E-04	2.38E-04	6.08E-06	8.82E-05	6.66E-05	6.66E-05	3.66E-05	3.30E-06	4.77E-05	2.97E-05	2.97E-05	1.47E-05
1082	258848.05	4084660.59	0.000039351	5.69E-04	4.19E-04	4.19E-04	2.34E-04	5.97E-06	8.67E-05	6.55E-05	6.55E-05	3.60E-05	3.24E-06	4.69E-05	2.91E-05	2.91E-05	1.44E-05
1083	258858.09	4084682.77	0.000038349	5.55E-04	4.09E-04	4.09E-04	2.28E-04	5.82E-06	8.45E-05	6.38E-05	6.38E-05	3.51E-05	3.16E-06	4.57E-05	2.84E-05	2.84E-05	1.41E-05
1084	258868.12	4084704.95	0.000037064	5.36E-04	3.95E-04	3.95E-04	2.20E-04	5.63E-06	8.17E-05	6.17E-05	6.17E-05	3.39E-05	3.06E-06	4.42E-05	2.74E-05	2.74E-05	1.36E-05
1085	258878.15	4084727.12	0.000035542	5.14E-04	3.79E-04	3.79E-04	2.11E-04	5.39E-06	7.83E-05	5.92E-05	5.92E-05	3.25E-05	2.93E-06	4.24E-05	2.63E-05	2.63E-05	1.30E-05
1086	258888.19	4084749.3	0.000033833	4.89E-04	3.61E-04	3.61E-04	2.01E-04	5.13E-06	7.45E-05	5.63E-05	5.63E-05	3.10E-05	2.79E-06	4.03E-05	2.51E-05	2.51E-05	1.24E-05
1087	258898.22	4084771.48	0.00003199	4.63E-04	3.41E-04	3.41E-04	1.90E-04	4.86E-06	7.05E-05	5.32E-05	5.32E-05	2.93E-05	2.64E-06	3.81E-05	2.37E-05	2.37E-05	1.17E-05
1088	258908.26	4084793.66	0.000030075	4.35E-04	3.21E-04	3.21E-04	1.79E-04	4.56E-06	6.63E-05	5.01E-05	5.01E-05	2.75E-05	2.48E-06	3.59E-05	2.23E-05	2.23E-05	1.10E-05
1089	258918.29	4084815.84	0.000028153	4.07E-04	3.00E-04	3.00E-04	1.67E-04	4.27E-06	6.20E-05	4.69E-05	4.69E-05	2.58E-05	2.32E-06	3.36E-05	2.08E-05	2.08E-05	1.03E-05
1090	258928.32	4084838.02	0.000026267	3.80E-04	2.80E-04	2.80E-04	1.56E-04	3.99E-06	5.79E-05	4.37E-05	4.37E-05	2.40E-05	2.17E-06	3.13E-05	1.95E-05	1.95E-05	9.63E-06
1091	258938.36	4084860.2	0.000024452	3.54E-04	2.61E-04	2.61E-04	1.45E-04	3.71E-06	5.39E-05	4.07E-05	4.07E-05	2.24E-05	2.02E-06	2.92E-05	1.81E-05	1.81E-05	8.96E-06
1092	258948.39	4084882.38	0.00002272	3.29E-04	2.42E-04	2.42E-04	1.35E-04	3.45E-06	5.01E-05	3.78E-05	3.78E-05	2.08E-05	1.87E-06	2.71E-05	1.68E-05	1.68E-05	8.33E-06
1093	258334.03	4084322.57	0.00001752	2.53E-04	1.87E-04	1.87E-04	1.04E-04	2.66E-06	3.86E-05	2.92E-05	2.92E-05	1.60E-05	1.44E-06	2.09E-05	1.30E-05	1.30E-05	6.42E-06
1094	258309.7	4084323.57	0.000016878	2.44E-04	1.80E-04	1.80E-04	1.00E-04	2.56E-06	3.72E-05	2.81E-05	2.81E-05	1.54E-05	1.39E-06	2.01E-05	1.25E-05	1.25E-05	6.19E-06
1095	258285.37	4084324.57	0.000016223	2.35E-04	1.73E-04	1.73E-04	9.64E-05	2.46E-06	3.57E-05	2.70E-05	2.70E-05	1.48E-05	1.34E-06	1.93E-05	1.20E-05	1.20E-05	5.95E-06
1096	258261.04	4084325.57	0.000015557	2.25E-04	1.66E-04	1.66E-04	9.25E-05	2.36E-06	3.43E-05	2.59E-05	2.59E-05	1.42E-05	1.28E-06	1.85E-05	1.15E-05	1.15E-05	5.70E-06
1097	258236.71	4084326.57	0.000014881	2.15E-04	1.59E-04	1.59E-04	8.84E-05	2.26E-06	3.28E-05	2.48E-05	2.48E-05	1.36E-05	1.23E-06	1.77E-05	1.10E-05	1.10E-05	5.45E-06
1098	258212.38	4084327.57	0.000014198	2.05E-04	1.51E-04	1.51E-04	8.44E-05	2.15E-06	3.13E-05	2.36E-05	2.36E-05	1.30E-05	1.17E-06	1.69E-05	1.05E-05	1.05E-05	5.20E-06
1099	258188.04	4084328.57	0.000013516	1.95E-04	1.44E-04	1.44E-04	8.03E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.11E-06	1.61E-05	1.00E-05	1.00E-05	4.95E-06
1100	258163.71	4084329.57	0.000012842	1.86E-04	1.37E-04	1.37E-04	7.63E-05	1.95E-06	2.83E-05	2.14E-05	2.14E-05	1.18E-05	1.06E-06	1.53E-05	9.51E-06	9.51E-06	4.71E-06
1101	258139.38	4084330.57	0.000012178	1.76E-04	1.30E-04	1.30E-04	7.24E-05	1.85E-06	2.68E-05	2.03E-05	2.03E-05	1.11E-05	1.00E-06	1.45E-05	9.02E-06	9.02E-06	4.46E-06
1102	258115.05	4084331.57	0.000011532	1.67E-04	1.23E-04	1.23E-04	6.85E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.51E-07	1.37E-05	8.54E-06	8.54E-06	4.23E-06
1103	258090.72	4084332.57	0.000010909	1.58E-04	1.16E-04	1.16E-04	6.48E-05	1.66E-06	2.40E-05	1.82E-05	1.82E-05	9.98E-06	8.99E-07	1.30E-05	8.08E-06	8.08E-06	4.00E-06
1104	258066.38	4084333.57	0.000010313	1.49E-04	1.10E-04	1.10E-04	6.13E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.44E-06	8.50E-07	1.23E-05	7.64E-06	7.64E-06	3.78E-06
1105	258042.05	4084334.57	9.7475E-06	1.41E-04	1.04E-04	1.04E-04	5.79E-05	1.48E-06	2.15E-05	1.62E-05	1.62E-05	8.92E-06	8.03E-07	1.16E-05	7.22E-06	7.22E-06	3.57E-06
1106	258017.72	4084335.57	9.2148E-06	1.33E-04	9.82E-05	9.82E-05	5.48E-05	1.40E-06	2.03E-05	1.53E-05	1.53E-05	8.43E-06	7.60E-07	1.10E-05	6.82E-06	6.82E-06	3.38E-06
1107	257993.39	4084336.57	8.7148E-06	1.26E-04	9.29E-05	9.29E-05	5.18E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.97E-06	7.18E-07	1.04E-05	6.45E-06	6.45E-06	3.19E-06
1108	257969.06	4084337.57	8.2476E-06	1.19E-04	8.79E-05	8.79E-05	4.90E-05	1.25E-06	1.82E-05	1.37E-05	1.37E-05	7.55E-06	6.80E-07	9.83E-06	6.11E-06	6.11E-06	3.02E-06
1109	257944.73	4084338.57	7.8111E-06	1.13E-04	8.33E-05	8.33E-05	4.64E-05	1.19E-06	1.72E-05	1.30E-05	1.30E-05	7.15E-06	6.44E-07	9.31E-06	5.78E-06	5.78E-06	2.86E-06
1110	257920.39	4084339.57	7.4054E-06	1.07E-04	7.89E-05	7.89E-05	4.40E-05	1.12E-06	1.63E-05	1.23E-05	1.23E-05	6.78E-06	6.10E-07	8.83E-06	5.48E-06	5.48E-06	2.71E-06
1111	257896.06	4084340.57	7.0284E-06	1.02E-04	7.49E-05	7.49E-05	4.18E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.43E-06	5.79E-07	8.38E-06	5.20E-06	5.20E-06	2.58E-06
1112	257871.73	4084341.57	0.000006678	9.66E-05	7.12E-05	7.12E-05	3.97E-05	1.01E-06	1.47E-05	1.11E-05	1.11E-05	6.11E-06	5.50E-07	7.96E-06	4.95E-06	4.95E-06	2.45E-06
1113	257847.4	4084342.57	6.3501E-06	9.18E-05	6.77E-05	6.77E-05	3.77E-05	9.64E-07	1.40E-05	1.06E-05	1.06E-05	5.81E-06	5.23E-07	7.57E-06	4.70E-06	4.70E-06	2.33E-06
1114	257823.07	4084343.57	6.0469E-06	8.75E-05	6.45E-05	6.45E-05	3.59E-05	9.18E-07	1.33E-05	1.01E-05	1.01E-05	5.53E-06	4.98E-07	7.21E-06	4.48E-06	4.48E-06	2.22E-06
1115	257798.73	4084344.57	5.7662E-06	8.34E-05	6.15E-05	6.15E-05	3.43E-05	8.75E-07	1.27E-05	9.60E-06	9.60E-06	5.28E-06	4.75E-07	6.87E-06	4.27E-06	4.27E-06	2.11E-06
1116	257774.4	4084345.57	5.5039E-06	7.96E-05	5.87E-05	5.87E-05	3.27E-05	8.35E-07	1.21E-05	9.16E-06	9.16E-06	5.04E-06	4.54E-07	6.56E-06	4.08E-06	4.08E-06	2.02E-06
1117	257750.07	4084346.57	5.2641E-06	7.61E-05	5.61E-05	5.61E-05	3.13E-05	7.99E-07	1.16E-05	8.76E-06	8.76E-06	4.82E-06	4.34E-07	6.28E-06	3.90E-06	3.90E-06	1.93E-06
1118	257725.74	4084347.57	5.0428E-06	7.29E-05	5.38E-05	5.38E-05	3.00E-05	7.65E-07	1.11E-05	8.39E-06	8.39E-06	4.61E-06	4.16E-07	6.01E-06	3.73E-06	3.73E-06	1.85E-06
1119	257701.41	4084348.57	0.000004842	7.00E-05	5.16E-05	5.16E-05	2.88E-05	7.35E-07	1.07E-05	8.06E-06	8.06E-06	4.43E-06	3.99E-07	5.77E-06	3.59E-06	3.59E-06	1.77E-06
1120	257677.08	4084349.57	4.6576E-06	6.74E-05	4.97E-05	4.97E-05	2.77E-05	7.07E-07	1.03E-05	7.75E-06	7.75E-06	4.26E-06	3.84E-07	5.55E-06	3.45E-06	3.45E-06	1.71E-06
1121	257652.74	4084350.57	4.4875E-06	6.49E-05	4.78E-05	4.78E-05	2.67E-05	6.81E-07	9.89E-06	7.47E-06	7.47E-06	4.11E-06	3.70E-07	5.35E-06	3.32E-06	3.32E-06	1.64E-06
1122	257628.41	4084351.58	4.3338E-06	6.27E-05	4.62E-05	4.62E-05	2.58E-05	6.58E-07	9.55E-06	7.21E-06	7.21E-06	3.97E-06	3.57E-07	5.17E-06	3.21E-06	3.21E-06	1.59E-06
1123	257604.08	4084352.58	4.1924E-06	6.06E-05	4.47E-05	4.47E-05	2.49E-05	6.36E-07	9.24E-06	6.98E-06	6.98E-06	3.84E-06	3.46E-07	5.00E-06	3.10E-06	3.10E-06	1.54E-06
1124	257579.75	4084353.58	4.0613E-06	5.87E-05	4.33E-05	4.33E-05	2.41E-05	6.16E-07	8.95E-06	6.76E-06	6.76E-06	3.72E-06	3.35E-07	4.84E-06	3.01E-06	3.01E-06	1.49E-06
1125	257555.42	4084354.58	3.9384E-06	5.70E-05	4.20E-05	4.20E-05	2.34E-05	5.98E-07	8.68E-06	6.56E-06	6.56E-06	3.60E-06	3.25E-07	4.70E-06	2.92E-06	2.92E-06	1.44E-06
1126	257531.08	4084355.58	3.8257E-06	5.53E-05	4.08E-05	4.08E-05	2.27E-05	5.81E-07	8.43E-06	6.37E-06	6.37E-06	3.50E-06	3.15E-07	4.56E-06	2.83E-06	2.83E-06	1.40E-06
1127	258351.93	4084230.8	0.000012731	1.84E-04	1.36E-04	1.36E-04	7.57E-05	1.93E-06	2.81E-05	2.12E-05	2.12E-05	1.17E-05	1.05E-06	1.52E-05	9.43E-06	9.43E-06	4.67E-06
1128	258373.93	4084238.94	0.000013614	1.97E-04	1.45E-04	1.45E-04	8.09E-05	2.07E-06	3.00E-05	2.27E-05	2.27E-05	1.25E-05	1.12E-06	1.62E-05	1.01E-05	1.01E-05	4.99E-06
1129	258395.93	4084247.09	0.000014532	2.10E-04	1.55E-04	1.55E-04	8.64E-05	2.21E-06	3.20E-05	2.42E-05	2.42E-05	1.33E-05	1.20E-06	1.73E-05	1.08E-05	1.08E-05	5.33E-06
1130	258417.93	4084255.23	0.000015481	2.24E-04	1.65E-04	1.65E-04	9.20E-05	2.35E-06	3.41E-05	2.58E-05	2.58E-05	1.42E-05	1.28E-06	1.85E-05	1.15E-05	1.15E-05	5.67E-06
1131	258439.93	4084263.38	0.000016454	2.38E-04	1.75E-04	1.75E-04	9.78E-05	2.50E-06	3.63E-05	2.74E-05	2.74E-05	1.51E-05	1.36E-06	1.96E-05	1.22E-05	1.22E-05	6.03E-06
1132	258461.94	4084271.53	0.000017446	2.52E-04	1.86E-04	1.86E-04	1.04E-04	2.65E-06	3.84E-05	2.90E-05	2.90E-05	1.60E-05	1.44E-06	2.08E-05	1.29E-05	1.29E-05	6.40E-06
1133	258483.94	4084279.67	0.000018446	2.67E-04	1.97E-04	1.97E-04	1.10E-04	2.80E-06	4.06E-05	3.07E-05	3.07E-05	1.69E-05	1.52E-06	2.20E-05	1.37E-05	1.37E-05	6.76E-06
1134	258505.94	4084287.82	0.000019454	2.81E-04	2.07E-04	2.07E-04	1.16E-04	2.95E-06	4.29E-05	3.24E-05	3.24E-05	1.78E-05	1.60E-06	2.32E-05	1.44E-05	1.44E-05	7.13E-06
1135	258527.94	4084295.96	0.000020458	2.96E-04	2.18E-04	2.18E-04	1.22E-04	3.10E-06	4.51E-05	3.41E-05	3.41E-05	1.87E-05	1.69E-06	2.44E-05	1.52E-05	1.52E-05	7.50E-06
1136	258549.94	4084304.11	0.000021456	3.10E-04	2.29E-04	2.29E-04	1.28E-04	3.26E-06	4.73E-05	3.57E-05	3.57E-05	1.96E-05	1.77E-06	2.56E-05	1.59E-05	1.59E-05	7.87E-06
1137	258571.94	4084312.25	0.000022433	3.24E-04	2.39E-04	2.39E-04	1.33E-04	3.40E-06	4.94E-05	3.73E-05	3.73E-05	2.05E-05	1.85E-06	2.67E-05	1.66E-05	1.66E-05	8.22E-06
1138	258593.95	4084320.4	0.00002339	3.38E-04	2.49E-04	2.49E-04	1.39E-04	3.55E-06	5.15E-05	3.89E-05	3.89E-05	2.14E-05	1.93E-06	2.79E-05	1.73E-05	1.73E-05	8.57E-06
1139	258615.95	4084328.55	0.00002431	3.52E-04	2.59E-04	2.59E-04	1.44E-04	3.69E-06	5.36E-05	4.05E-05	4.05E-05	2.22E-05	2.00E-06	2.90E-05	1.80E-05	1.80E-05	8.91E-06
1140	258637.95	4084336.69	0.000025187	3.64E-04	2.69E-04	2.69E-04	1.50E-04	3.82E-06	5.55E-05	4.19E-05	4.19E-05	2.30E-05	2.08E-06	3.00E-05	1.87E-05	1.87E-05	9.23E-06
1141	258659.95	4084344.84	0.000026015	3.76E-04	2.77E-04	2.77E-04	1.55E-04	3.95E-06	5.73E-05	4.33E-05	4.33E-05	2.38E-05	2.14E-06	3.10E-05	1.93E-05	1.93E-05	9.54E-06
1142	258681.95	4084352.98	0.000026782	3.87E-04	2.86E-04	2.86E-04	1.59E-04	4.06E-06	5.90E-05	4.46E-05	4.46E-05	2.45E-05	2.21E-06	3.19E-05	1.98E-05	1.98E-05	9.82E-06
1143	258703.95	4084361.13	0.000027474	3.97E-04	2.93E-04	2.93E-04	1.63E-04	4.17E-06	6.05E-05	4.57E-05	4.57E-05	2.51E-05	2.26E-06	3.28E-05	2.03E-05	2.03E-05	1.01E-05
1144	258725.96	4084369.28	0.000028083	4.06E-04	2.99E-04	2.99E-04	1.67E-04	4.26E-06	6.19E-05	4.67E-05	4.67E-05	2.57E-05	2.31E-06	3.35E-05	2.08E-05	2.08E-05	1.03E-05
1145	258747.96	4084377.42	0.000028589	4.14E-04	3.05E-04	3.05E-04	1.70E-04	4.34E-06	6.30E-05	4.76E-05	4.76E-05	2.62E-05	2.36E-06	3.41E-05	2.12E-05	2.12E-05	1.05E-05
1146	258769.96	4084385.57	0.000028982	4.19E-04	3.09E-04	3.09E-04	1.72E-04	4.40E-06	6.39E-05	4.82E-05	4.82E-05	2.65E-05	2.39E-06	3.46E-05	2.15E-05	2.15E-05	1.06E-05
1147	258791.96	4084393.71	0.000029253	4.23E-04	3.12E-04	3.12E-04	1.74E-04	4.44E-06	6.45E-05	4.87E-05	4.87E-05	2.68E-05	2.41E-06	3.49E-05	2.17E-05	2.17E-05	1.07E-05
1148	258813.96	4084401.86	0.000029331	4.24E-04	3.13E-04	3.13E-04	1.74E-04	4.45E-06	6.46E-05	4.88E-05	4.88E-05	2.68E-05	2.42E-06	3.50E-05	2.17E-05	2.17E-05	1.08E-05
1149	258845.63	4084431.38	0.000030284	4.38E-04	3.23E-04	3.23E-04	1.80E-04	4.60E-06	6.67E-05	5.04E-05	5.04E-05	2.77E-05	2.50E-06	3.61E-05	2.24E-05	2.24E-05	1.11E-05
1150	258855.3	4084452.76	0.000031111	4.50E-04	3.32E-04	3.32E-04	1.85E-04	4.72E-06	6.86E-05	5.18E-05	5.18E-05	2.85E-05	2.56E-06	3.71E-05	2.30E-05	2.30E-05	1.14E-05
1151	258864.97	4084474.13	0.00003179	4.60E-04	3.39E-04	3.39E-04	1.89E-04	4.82E-06	7.00E-05	5.29E-05	5.29E-05	2.91E-05	2.62E-06	3.79E-05	2.35E-05	2.35E-05	1.17E-05
1152	258874.64	4084495.51	0.000032306	4.67E-04	3.44E-04	3.44E-04	1.92E-04	4.90E-06	7.12E-05	5.38E-05	5.38E-05	2.96E-05	2.66E-06	3.85E-05	2.39E-05	2.39E-05	1.18E-05
1153	258884.32	4084516.88	0.000032644	4.72E-04	3.48E-04	3.48E-04	1.94E-04	4.95E-06	7.19E-05	5.43E-05	5.43E-05	2.99E-05	2.69E-06	3.89E-05	2.42E-05	2.42E-05	1.20E-05
1154	258893.99	4084538.26	0.000032794	4.74E-04	3.50E-04	3.50E-04	1.95E-04	4.98E-06	7.23E-05	5.46E-05	5.46E-05	3.00E-05	2.70E-06	3.91E-05	2.43E-05	2.43E-05	1.20E-05
1155	258903.66	4084559.63	0.000032749	4.74E-04	3.49E-04	3.49E-04	1.95E-04	4.97E-06	7.22E-05	5.45E-05	5.45E-05	3.00E-05	2.70E-06	3.90E-05	2.43E-05	2.43E-05	1.20E-05
1156	258913.33	4084581.01	0.000032507	4.70E-04	3.47E-04	3.47E-04	1.93E-04	4.93E-06	7.16E-05	5.41E-05	5.41E-05	2.97E-05	2.68E-06	3.88E-05	2.41E-05	2.41E-05	1.19E-05
1157	258923	4084602.38	0.000032068	4.64E-04	3.42E-04	3.42E-04	1.91E-04	4.87E-06	7.07E-05	5.34E-05	5.34E-05	2.93E-05	2.64E-06	3.82E-05	2.37E-05	2.37E-05	1.18E-05
1158	258932.67	4084623.76	0.000031439	4.55E-04	3.35E-04	3.35E-04	1.87E-04	4.77E-06	6.93E-05	5.23E-05	5.23E-05	2.88E-05	2.59E-06	3.75E-05	2.33E-05	2.33E-05	1.15E-05
1159	258942.34	4084645.13	0.000030636	4.43E-04	3.27E-04	3.27E-04	1.82E-04	4.65E-06	6.75E-05	5.10E-05	5.10E-05	2.80E-05	2.53E-06	3.65E-05	2.27E-05	2.27E-05	1.12E-05
1160	258952.01	4084666.51	0.000029677	4.29E-04	3.16E-04	3.16E-04	1.76E-04	4.50E-06	6.54E-05	4.94E-05	4.94E-05	2.72E-05	2.45E-06	3.54E-05	2.20E-05	2.20E-05	1.09E-05
1161	258961.68	4084687.89	0.000028587	4.13E-04	3.05E-04	3.05E-04	1.70E-04	4.34E-06	6.30E-05	4.76E-05	4.76E-05	2.62E-05	2.36E-06	3.41E-05	2.12E-05	2.12E-05	1.05E-05
1162	258971.35	4084709.26	0.000027392	3.96E-04	2.92E-04	2.92E-04	1.63E-04	4.16E-06	6.04E-05	4.56E-05	4.56E-05	2.51E-05	2.26E-06	3.27E-05	2.03E-05	2.03E-05	1.00E-05
1163	258981.02	4084730.64	0.000026118	3.78E-04	2.78E-04	2.78E-04	1.55E-04	3.96E-06	5.75E-05	4.35E-05	4.35E-05	2.39E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.57E-06
1164	258990.69	4084752.01	0.000024794	3.59E-04	2.64E-04	2.64E-04	1.47E-04	3.76E-06	5.46E-05	4.13E-05	4.13E-05	2.27E-05	2.04E-06	2.96E-05	1.84E-05	1.84E-05	9.09E-06
1165	259000.36	4084773.39	0.000023454	3.39E-04	2.50E-04	2.50E-04	1.39E-04	3.56E-06	5.17E-05	3.90E-05	3.90E-05	2.15E-05	1.93E-06	2.80E-05	1.74E-05	1.74E-05	8.60E-06
1166	259010.03	4084794.76	0.000022126	3.20E-04	2.36E-04	2.36E-04	1.32E-04	3.36E-06	4.88E-05	3.68E-05	3.68E-05	2.02E-05	1.82E-06	2.64E-05	1.64E-05	1.64E-05	8.11E-06

1167	259019.7	4084816.14	0.000020835	3.01E-04	2.22E-04	2.22E-04	1.24E-04	3.16E-06	4.59E-05	3.47E-05	3.47E-05	1.91E-05	1.72E-06	2.48E-05	1.54E-05	1.54E-05	7.64E-06
1168	259029.37	4084837.51	0.000019593	2.83E-04	2.09E-04	2.09E-04	1.16E-04	2.97E-06	4.32E-05	3.26E-05	3.26E-05	1.79E-05	1.62E-06	2.34E-05	1.45E-05	1.45E-05	7.18E-06
1169	259039.04	4084858.89	0.000018407	2.66E-04	1.96E-04	1.96E-04	1.09E-04	2.79E-06	4.06E-05	3.06E-05	3.06E-05	1.68E-05	1.52E-06	2.19E-05	1.36E-05	1.36E-05	6.75E-06
1170	259048.71	4084880.26	0.000017282	2.50E-04	1.84E-04	1.84E-04	1.03E-04	2.62E-06	3.81E-05	2.88E-05	2.88E-05	1.58E-05	1.42E-06	2.06E-05	1.28E-05	1.28E-05	6.33E-06
1171	258329.93	4084222.65	0.000011887	1.72E-04	1.27E-04	1.27E-04	7.06E-05	1.80E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.80E-07	1.42E-05	8.80E-06	8.80E-06	4.36E-06
1172	258305.59	4084223.65	0.000011409	1.65E-04	1.22E-04	1.22E-04	6.78E-05	1.73E-06	2.51E-05	1.90E-05	1.90E-05	1.04E-05	9.40E-07	1.36E-05	8.45E-06	8.45E-06	4.18E-06
1173	258281.26	4084224.65	0.000010934	1.58E-04	1.17E-04	1.17E-04	6.50E-05	1.66E-06	2.41E-05	1.82E-05	1.82E-05	1.00E-05	9.01E-07	1.30E-05	8.10E-06	8.10E-06	4.01E-06
1174	258256.93	4084225.65	0.000010463	1.51E-04	1.12E-04	1.12E-04	6.22E-05	1.59E-06	2.31E-05	1.74E-05	1.74E-05	9.57E-06	8.62E-07	1.25E-05	7.75E-06	7.75E-06	3.84E-06
1175	258232.6	4084226.65	9.9955E-06	1.45E-04	1.07E-04	1.07E-04	5.94E-05	1.52E-06	2.20E-05	1.66E-05	1.66E-05	9.15E-06	8.24E-07	1.19E-05	7.40E-06	7.40E-06	3.66E-06
1176	258208.27	4084227.65	9.5344E-06	1.38E-04	1.02E-04	1.02E-04	5.67E-05	1.45E-06	2.10E-05	1.59E-05	1.59E-05	8.72E-06	7.86E-07	1.14E-05	7.06E-06	7.06E-06	3.49E-06
1177	258183.94	4084228.65	9.0816E-06	1.31E-04	9.68E-05	9.68E-05	5.40E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.31E-06	7.49E-07	1.08E-05	6.73E-06	6.73E-06	3.33E-06
1178	258159.6	4084229.65	0.000008641	1.25E-04	9.21E-05	9.21E-05	5.14E-05	1.31E-06	1.90E-05	1.44E-05	1.44E-05	7.91E-06	7.12E-07	1.03E-05	6.40E-06	6.40E-06	3.17E-06
1179	258135.27	4084230.65	8.2148E-06	1.19E-04	8.76E-05	8.76E-05	4.88E-05	1.25E-06	1.81E-05	1.37E-05	1.37E-05	7.52E-06	6.77E-07	9.79E-06	6.08E-06	6.08E-06	3.01E-06
1180	258110.94	4084231.65	7.8071E-06	1.13E-04	8.32E-05	8.32E-05	4.64E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.14E-06	6.44E-07	9.31E-06	5.78E-06	5.78E-06	2.86E-06
1181	258086.61	4084232.65	7.4218E-06	1.07E-04	7.91E-05	7.91E-05	4.41E-05	1.13E-06	1.64E-05	1.24E-05	1.24E-05	6.79E-06	6.12E-07	8.85E-06	5.50E-06	5.50E-06	2.72E-06
1182	258062.28	4084233.65	0.000007055	1.02E-04	7.52E-05	7.52E-05	4.19E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.46E-06	5.82E-07	8.41E-06	5.22E-06	5.22E-06	2.59E-06
1183	258037.94	4084234.65	6.7108E-06	9.71E-05	7.15E-05	7.15E-05	3.99E-05	1.02E-06	1.48E-05	1.12E-05	1.12E-05	6.14E-06	5.53E-07	8.00E-06	4.97E-06	4.97E-06	2.46E-06
1184	258013.61	4084235.65	0.000006387	9.24E-05	6.81E-05	6.81E-05	3.80E-05	9.69E-07	1.41E-05	1.06E-05	1.06E-05	5.84E-06	5.26E-07	7.61E-06	4.73E-06	4.73E-06	2.34E-06
1185	257989.28	4084236.66	6.0858E-06	8.80E-05	6.49E-05	6.49E-05	3.62E-05	9.24E-07	1.34E-05	1.01E-05	1.01E-05	5.57E-06	5.02E-07	7.26E-06	4.51E-06	4.51E-06	2.23E-06
1186	257964.95	4084237.66	5.8051E-06	8.40E-05	6.19E-05	6.19E-05	3.45E-05	8.81E-07	1.28E-05	9.66E-06	9.66E-06	5.31E-06	4.79E-07	6.92E-06	4.30E-06	4.30E-06	2.13E-06
1187	257940.62	4084238.66	5.5428E-06	8.02E-05	5.91E-05	5.91E-05	3.29E-05	8.41E-07	1.22E-05	9.23E-06	9.23E-06	5.07E-06	4.57E-07	6.61E-06	4.10E-06	4.10E-06	2.03E-06
1188	257916.29	4084239.66	0.000005299	7.66E-05	5.65E-05	5.65E-05	3.15E-05	8.04E-07	1.17E-05	8.82E-06	8.82E-06	4.85E-06	4.37E-07	6.32E-06	3.92E-06	3.92E-06	1.94E-06
1189	257891.95	4084240.66	5.0736E-06	7.34E-05	5.41E-05	5.41E-05	3.02E-05	7.70E-07	1.12E-05	8.44E-06	8.44E-06	4.64E-06	4.18E-07	6.05E-06	3.76E-06	3.76E-06	1.86E-06
1190	257867.62	4084241.66	4.8646E-06	7.04E-05	5.19E-05	5.19E-05	2.89E-05	7.38E-07	1.07E-05	8.10E-06	8.10E-06	4.45E-06	4.01E-07	5.80E-06	3.60E-06	3.60E-06	1.78E-06
1191	257843.29	4084242.66	4.6719E-06	6.76E-05	4.98E-05	4.98E-05	2.78E-05	7.09E-07	1.03E-05	7.78E-06	7.78E-06	4.28E-06	3.85E-07	5.57E-06	3.46E-06	3.46E-06	1.71E-06
1192	257818.96	4084243.66	4.4957E-06	6.50E-05	4.79E-05	4.79E-05	2.67E-05	6.82E-07	9.91E-06	7.48E-06	7.48E-06	4.11E-06	3.71E-07	5.36E-06	3.33E-06	3.33E-06	1.65E-06
1193	257794.63	4084244.66	4.3297E-06	6.26E-05	4.62E-05	4.62E-05	2.57E-05	6.57E-07	9.54E-06	7.21E-06	7.21E-06	3.96E-06	3.57E-07	5.16E-06	3.21E-06	3.21E-06	1.59E-06
1194	257770.29	4084245.66	4.1761E-06	6.04E-05	4.45E-05	4.45E-05	2.48E-05	6.34E-07	9.20E-06	6.95E-06	6.95E-06	3.82E-06	3.44E-07	4.98E-06	3.09E-06	3.09E-06	1.53E-06
1195	257745.96	4084246.66	4.0326E-06	5.83E-05	4.30E-05	4.30E-05	2.40E-05	6.12E-07	8.89E-06	6.71E-06	6.71E-06	3.69E-06	3.32E-07	4.81E-06	2.99E-06	2.99E-06	1.48E-06
1196	257721.63	4084247.66	3.8974E-06	5.64E-05	4.15E-05	4.15E-05	2.32E-05	5.92E-07	8.59E-06	6.49E-06	6.49E-06	3.57E-06	3.21E-07	4.65E-06	2.89E-06	2.89E-06	1.43E-06
1197	257697.3	4084248.66	3.7703E-06	5.45E-05	4.02E-05	4.02E-05	2.24E-05	5.72E-07	8.31E-06	6.28E-06	6.28E-06	3.45E-06	3.11E-07	4.50E-06	2.79E-06	2.79E-06	1.38E-06
1198	257672.97	4084249.66	3.6535E-06	5.28E-05	3.89E-05	3.89E-05	2.17E-05	5.54E-07	8.05E-06	6.08E-06	6.08E-06	3.34E-06	3.01E-07	4.36E-06	2.71E-06	2.71E-06	1.34E-06
1199	257648.64	4084250.66	3.5408E-06	5.12E-05	3.77E-05	3.77E-05	2.10E-05	5.37E-07	7.80E-06	5.89E-06	5.89E-06	3.24E-06	2.92E-07	4.22E-06	2.62E-06	2.62E-06	1.30E-06
1200	257624.3	4084251.66	3.4363E-06	4.97E-05	3.66E-05	3.66E-05	2.04E-05	5.22E-07	7.57E-06	5.72E-06	5.72E-06	3.14E-06	2.83E-07	4.10E-06	2.54E-06	2.54E-06	1.26E-06
1201	257599.97	4084252.66	3.3359E-06	4.82E-05	3.56E-05	3.56E-05	1.98E-05	5.06E-07	7.35E-06	5.55E-06	5.55E-06	3.05E-06	2.75E-07	3.98E-06	2.47E-06	2.47E-06	1.22E-06
1202	257575.64	4084253.66	3.2417E-06	4.69E-05	3.46E-05	3.46E-05	1.93E-05	4.92E-07	7.14E-06	5.40E-06	5.40E-06	2.97E-06	2.67E-07	3.86E-06	2.40E-06	2.40E-06	1.19E-06
1203	257551.31	4084254.66	3.1536E-06	4.56E-05	3.36E-05	3.36E-05	1.87E-05	4.79E-07	6.95E-06	5.25E-06	5.25E-06	2.89E-06	2.60E-07	3.76E-06	2.34E-06	2.34E-06	1.16E-06
1204	257526.98	4084255.66	3.0695E-06	4.44E-05	3.27E-05	3.27E-05	1.82E-05	4.66E-07	6.76E-06	5.11E-06	5.11E-06	2.81E-06	2.53E-07	3.66E-06	2.27E-06	2.27E-06	1.13E-06
1205	258344.15	4084031.13	6.5059E-06	9.41E-05	6.94E-05	6.94E-05	3.87E-05	9.87E-07	1.43E-05	1.08E-05	1.08E-05	5.95E-06	5.36E-07	7.76E-06	4.82E-06	4.82E-06	2.38E-06
1206	258366.58	4084039.43	0.000006928	1.00E-04	7.39E-05	7.39E-05	4.12E-05	1.05E-06	1.53E-05	1.15E-05	1.15E-05	6.34E-06	5.71E-07	8.26E-06	5.13E-06	5.13E-06	2.54E-06
1207	258389.02	4084047.74	7.3808E-06	1.07E-04	7.87E-05	7.87E-05	4.39E-05	1.12E-06	1.63E-05	1.23E-05	1.23E-05	6.75E-06	6.08E-07	8.80E-06	5.47E-06	5.47E-06	2.71E-06
1208	258411.45	4084056.04	7.8624E-06	1.14E-04	8.38E-05	8.38E-05	4.67E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.19E-06	6.48E-07	9.37E-06	5.82E-06	5.82E-06	2.88E-06
1209	258433.89	4084064.35	8.3726E-06	1.21E-04	8.93E-05	8.93E-05	4.98E-05	1.27E-06	1.84E-05	1.39E-05	1.39E-05	7.66E-06	6.90E-07	9.98E-06	6.20E-06	6.20E-06	3.07E-06
1210	258456.32	4084072.66	8.9095E-06	1.29E-04	9.50E-05	9.50E-05	5.30E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.15E-06	7.34E-07	1.06E-05	6.60E-06	6.60E-06	3.27E-06
1211	258478.76	4084080.96	9.4709E-06	1.37E-04	1.01E-04	1.01E-04	5.63E-05	1.44E-06	2.09E-05	1.58E-05	1.58E-05	8.67E-06	7.81E-07	1.13E-05	7.01E-06	7.01E-06	3.47E-06
1212	258501.19	4084089.27	0.000010055	1.45E-04	1.07E-04	1.07E-04	5.98E-05	1.53E-06	2.22E-05	1.67E-05	1.67E-05	9.20E-06	8.29E-07	1.20E-05	7.45E-06	7.45E-06	3.69E-06
1213	258523.63	4084097.58	0.000010659	1.54E-04	1.14E-04	1.14E-04	6.34E-05	1.62E-06	2.35E-05	1.77E-05	1.77E-05	9.75E-06	8.79E-07	1.27E-05	7.89E-06	7.89E-06	3.91E-06
1214	258546.06	4084105.88	0.00001128	1.63E-04	1.20E-04	1.20E-04	6.70E-05	1.71E-06	2.49E-05	1.88E-05	1.88E-05	1.03E-05	9.30E-07	1.34E-05	8.35E-06	8.35E-06	4.13E-06
1215	258568.5	4084114.19	0.000011913	1.72E-04	1.27E-04	1.27E-04	7.08E-05	1.81E-06	2.63E-05	1.98E-05	1.98E-05	1.09E-05	9.82E-07	1.42E-05	8.82E-06	8.82E-06	4.37E-06
1216	258590.93	4084122.5	0.000012557	1.82E-04	1.34E-04	1.34E-04	7.46E-05	1.91E-06	2.77E-05	2.09E-05	2.09E-05	1.15E-05	1.04E-06	1.50E-05	9.30E-06	9.30E-06	4.60E-06
1217	258613.37	4084130.8	0.000013204	1.91E-04	1.41E-04	1.41E-04	7.85E-05	2.00E-06	2.91E-05	2.20E-05	2.20E-05	1.21E-05	1.09E-06	1.57E-05	9.78E-06	9.78E-06	4.84E-06
1218	258635.8	4084139.11	0.000013854	2.00E-04	1.48E-04	1.48E-04	8.23E-05	2.10E-06	3.05E-05	2.31E-05	2.31E-05	1.27E-05	1.14E-06	1.65E-05	1.03E-05	1.03E-05	5.08E-06
1219	258658.24	4084147.41	0.000014499	2.10E-04	1.55E-04	1.55E-04	8.62E-05	2.20E-06	3.19E-05	2.41E-05	2.41E-05	1.33E-05	1.20E-06	1.73E-05	1.07E-05	1.07E-05	5.32E-06
1220	258680.67	4084155.72	0.000015137	2.19E-04	1.61E-04	1.61E-04	9.00E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.80E-05	1.12E-05	1.12E-05	5.55E-06
1221	258703.11	4084164.03	0.000015762	2.28E-04	1.68E-04	1.68E-04	9.37E-05	2.39E-06	3.47E-05	2.62E-05	2.62E-05	1.44E-05	1.30E-06	1.88E-05	1.17E-05	1.17E-05	5.78E-06
1222	258725.54	4084172.33	0.00001637	2.37E-04	1.75E-04	1.75E-04	9.73E-05	2.48E-06	3.61E-05	2.72E-05	2.72E-05	1.50E-05	1.35E-06	1.95E-05	1.21E-05	1.21E-05	6.00E-06
1223	258747.98	4084180.64	0.000016958	2.45E-04	1.81E-04	1.81E-04	1.01E-04	2.57E-06	3.74E-05	2.82E-05	2.82E-05	1.55E-05	1.40E-06	2.02E-05	1.26E-05	1.26E-05	6.22E-06
1224	258770.41	4084188.95	0.000017518	2.53E-04	1.87E-04	1.87E-04	1.04E-04	2.66E-06	3.86E-05	2.92E-05	2.92E-05	1.60E-05	1.44E-06	2.09E-05	1.30E-05	1.30E-05	6.42E-06
1225	258792.85	4084197.25	0.000018048	2.61E-04	1.92E-04	1.92E-04	1.07E-04	2.74E-06	3.98E-05	3.00E-05	3.00E-05	1.65E-05	1.49E-06	2.15E-05	1.34E-05	1.34E-05	6.62E-06
1226	258815.28	4084205.56	0.000018542	2.68E-04	1.98E-04	1.98E-04	1.10E-04	2.81E-06	4.09E-05	3.09E-05	3.09E-05	1.70E-05	1.53E-06	2.21E-05	1.37E-05	1.37E-05	6.80E-06
1227	258837.72	4084213.87	0.000018993	2.75E-04	2.02E-04	2.02E-04	1.13E-04	2.88E-06	4.19E-05	3.16E-05	3.16E-05	1.74E-05	1.57E-06	2.26E-05	1.41E-05	1.41E-05	6.96E-06
1228	258860.15	4084222.17	0.000019391	2.80E-04	2.07E-04	2.07E-04	1.15E-04	2.94E-06	4.27E-05	3.23E-05	3.23E-05	1.77E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.11E-06
1229	258882.59	4084230.48	0.000019723	2.85E-04	2.10E-04	2.10E-04	1.17E-04	2.99E-06	4.35E-05	3.28E-05	3.28E-05	1.80E-05	1.63E-06	2.35E-05	1.46E-05	1.46E-05	7.23E-06
1230	258905.02	4084238.78	0.000020016	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.04E-06	4.41E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.39E-05	1.48E-05	1.48E-05	7.34E-06
1231	258927.46	4084247.09	0.000020231	2.93E-04	2.16E-04	2.16E-04	1.20E-04	3.07E-06	4.46E-05	3.37E-05	3.37E-05	1.85E-05	1.67E-06	2.41E-05	1.50E-05	1.50E-05	7.42E-06
1232	258949.89	4084255.4	0.000020376	2.95E-04	2.17E-04	2.17E-04	1.21E-04	3.09E-06	4.49E-05	3.39E-05	3.39E-05	1.86E-05	1.68E-06	2.43E-05	1.51E-05	1.51E-05	7.47E-06
1233	258982.19	4084285.5	0.000021071	3.05E-04	2.25E-04	2.25E-04	1.25E-04	3.20E-06	4.64E-05	3.51E-05	3.51E-05	1.93E-05	1.74E-06	2.51E-05	1.56E-05	1.56E-05	7.72E-06
1234	258992.05	4084307.3	0.000021624	3.13E-04	2.31E-04	2.31E-04	1.29E-04	3.28E-06	4.76E-05	3.60E-05	3.60E-05	1.98E-05	1.78E-06	2.58E-05	1.60E-05	1.60E-05	7.93E-06
1235	259001.91	4084329.09	0.000022085	3.19E-04	2.35E-04	2.35E-04	1.31E-04	3.35E-06	4.87E-05	3.68E-05	3.68E-05	2.02E-05	1.82E-06	2.63E-05	1.64E-05	1.64E-05	8.10E-06
1236	259011.77	4084350.89	0.000022474	3.25E-04	2.40E-04	2.40E-04	1.34E-04	3.41E-06	4.95E-05	3.74E-05	3.74E-05	2.06E-05	1.85E-06	2.68E-05	1.66E-05	1.66E-05	8.24E-06
1237	259021.63	4084372.69	0.000022778	3.29E-04	2.43E-04	2.43E-04	1.35E-04	3.46E-06	5.02E-05	3.79E-05	3.79E-05	2.08E-05	1.88E-06	2.72E-05	1.69E-05	1.69E-05	8.35E-06
1238	259031.5	4084394.48	0.000022981	3.32E-04	2.45E-04	2.45E-04	1.37E-04	3.49E-06	5.06E-05	3.83E-05	3.83E-05	2.10E-05	1.89E-06	2.74E-05	1.70E-05	1.70E-05	8.42E-06
1239	259041.36	4084416.28	0.000023085	3.34E-04	2.46E-04	2.46E-04	1.37E-04	3.50E-06	5.09E-05	3.84E-05	3.84E-05	2.11E-05	1.90E-06	2.75E-05	1.71E-05	1.71E-05	8.46E-06
1240	259051.22	4084438.08	0.000023083	3.34E-04	2.46E-04	2.46E-04	1.37E-04	3.50E-06	5.09E-05	3.84E-05	3.84E-05	2.11E-05	1.90E-06	2.75E-05	1.71E-05	1.71E-05	8.46E-06
1241	259061.08	4084459.87	0.000022977	3.32E-04	2.45E-04	2.45E-04	1.37E-04	3.49E-06	5.06E-05	3.82E-05	3.82E-05	2.10E-05	1.89E-06	2.74E-05	1.70E-05	1.70E-05	8.42E-06
1242	259070.94	4084481.67	0.000022774	3.29E-04	2.43E-04	2.43E-04	1.35E-04	3.46E-06	5.02E-05	3.79E-05	3.79E-05	2.08E-05	1.88E-06	2.72E-05	1.69E-05	1.69E-05	8.35E-06
1243	259080.8	4084503.47	0.000022477	3.25E-04	2.40E-04	2.40E-04	1.34E-04	3.41E-06	4.95E-05	3.74E-05	3.74E-05	2.06E-05	1.85E-06	2.68E-05	1.66E-05	1.66E-05	8.24E-06
1244	259090.66	4084525.26	0.000022089	3.19E-04	2.35E-04	2.35E-04	1.31E-04	3.35E-06	4.87E-05	3.68E-05	3.68E-05	2.02E-05	1.82E-06	2.63E-05	1.64E-05	1.64E-05	8.10E-06
1245	259100.52	4084547.06	0.000021622	3.13E-04	2.31E-04	2.31E-04	1.29E-04	3.28E-06	4.76E-05	3.60E-05	3.60E-05	1.98E-05	1.78E-06	2.58E-05	1.60E-05	1.60E-05	7.93E-06
1246	259110.38	4084568.86	0.000021081	3.05E-04	2.25E-04	2.25E-04	1.25E-04	3.20E-06	4.65E-05	3.51E-05	3.51E-05	1.93E-05	1.74E-06	2.51E-05	1.56E-05	1.56E-05	7.73E-06
1247	259120.24	4084590.65	0.000020481	2.96E-04	2.18E-04	2.18E-04	1.22E-04	3.11E-06	4.51E-05	3.41E-05	3.41E-05	1.87E-05	1.69E-06	2.44E-05	1.52E-05	1.52E-05	7.51E-06
1248	259130.1	4084612.45	0.000019829	2.87E-04	2.11E-04	2.11E-04	1.18E-04	3.01E-06	4.37E-05	3.30E-05	3.30E-05	1.81E-05	1.63E-06	2.36E-05	1.47E-05	1.47E-05	7.27E-06
1249	259139.97	4084634.25	0.000019136	2.77E-04	2.04E-04	2.04E-04	1.14E-04	2.90E-06	4.22E-05	3.19E-05	3.19E-05	1.75E-05	1.58E-06	2.28E-05	1.42E-05	1.42E-05	7.01E-06
1250	259149.83	4084656.04	0.000018413	2.66E-04	1.96E-04	1.96E-04	1.09E-04	2.79E-06	4.06E-05	3.06E-05	3.06E-05	1.68E-05	1.52E-06	2.20E-05	1.36E-05	1.36E-05	6.75E-06
1251	259159.69	4084677.84	0.000017696	2.56E-04	1.89E-04	1.89E-04	1.05E-04	2.69E-06	3.90E-05	2.95E-05	2.95E-05	1.62E-05	1.46E-06	2.11E-05	1.31E-05	1.31E-05	6.49E-06
1252	259169.55	4084699.64	0.000016936	2.45E-04	1.81E-04	1.81E-04	1.01E-04	2.57E-06	3.73E-05	2.82E-05	2.82E-05	1.55E-05	1.40E-06	2.02E-05	1.25E-05	1.25E-05	6.21E-06
1253	259179.41	4084721.43	0.00001613	2.33E-04	1.72E-04	1.72E-04	9.59E-05	2.45E-06	3.55E-05	2.68E-05	2.68E-05	1.48E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.91E-06
1254	259189.27	4084743.23	0.000015358	2.22E-04	1.64E-04	1.64E-04	9.13E-05	2.33E-06	3.38E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.83E-05	1.14E-05	1.14E-05	5.63E-06
1255	259199.13	4084765.03	0.000014614	2.11E-04	1.56E-04	1.56E-04	8.69E-05	2.22E-06	3.22E-05	2.43E-05	2.43E-05	1.34E-05	1.20E-06	1.74E-05	1.08E-05	1.08E-05	5.36E-06
1256	259208.99	4084786.82	0.000013846	2.00E-04	1.48E-04	1.48E-04	8.23E-05	2.10E-06	3.05E-05	2.30E-05	2.30E-05	1.27E-05	1.14E-06	1.65E-05	1.03E-05	1.03E-05	5.08E-06
1257	259218.85	4084808.62	0.000013145	1.90E-04	1.40E-04	1.40E-04	7.81E-05	2.00E-06	2.90E-05	2.19E-05	2.19E-05	1.20E-05	1.08E-06	1.57E-05	9.73E-06	9.73E-06	4.82E-06
1258	259228.71	4084830.42	0.000012489	1.81E-04	1.33E-04	1.33E-04	7.42E-05	1.90E-06	2.75E-05	2.08E-05	2.08E-05	1.14E-05	1.03E-06	1.49E-05	9.25E-06	9.25E-06	4.58E-06
1259	259238.58	4084852.21	0.000011872	1.72E-04	1.27E-04	1.27E-04	7.06E-05	1.80E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.79E-07	1.42E-05	8.79E-06	8.79E-06	4.35E-06
1260	259248.44	4084874.01	0.000011291	1.63E-04	1.20E-04	1.20E-04	6.71E-05	1.71E-06	2.49E-05	1.88E-05	1.88E-05	1.03E-05	9.31E-07	1.35E-05	8.36E-06	8.36E-06	4.14E-06
1261	258321.71	4084022.82	6.1125E-06	8.84E-05	6.52E-05	6.52E-05	3.63E-05	9.28E-07	1.35E-05	1.02E-05	1.02E-05	5.59E-06	5.04E-07	7.29E-06	4.53E-06	4.53E-06	2.24E-06
1262	258297.38	4084023.82	5.8789E-06	8.50E-05	6.27E-05	6.27E-05	3.49E-05	8.92E-07	1.30E-05	9.79E-06	9.79E-06	5.38E-06	4.85E-07	7.01E-06	4.35E-06	4.35E-06	2.16E-06
1263	258273.05	4084024.82	5.6576E-06	8.18E-05	6.03E-05	6.03E-05	3.36E-05	8.59E-07	1.25E-05	9.42E-06	9.42E-06	5.18E-06	4.66E-07	6.75E-06	4.19E-06	4.19E-06	2.07E-06
1264	258248.72	4084025.82	5.4424E-06	7.87E-05	5.80E-05	5.80E-05	3.23E-05	8.26E-07	1.20E-05	9.06E-06	9.06E-06	4.98E-06	4.49E-07	6.49E-06	4.03E-06	4.03E-06	2.00E-06
1265	258224.38	4084026.82	5.2354E-06	7.57E-05	5.58E-05	5.58E-05	3.11E-05	7.95E-07	1.15E-05	8.71E-06	8.71E-06	4.79E-06	4.32E-07	6.24E-06	3.88E-06	3.88E-06	1.92E-06
1266	258200.05	4084027.82	5.0346E-06	7.28E-05	5.37E-05	5.37E-05	2.99E-05	7.64E-07	1.11E-05	8.38E-06	8.38E-06	4.61E-06	4.15E-07	6.00E-06	3.73E-06	3.73E-06	1.85E-06
1267	258175.72	4084028.82	0.000004842	7.00E-05	5.16E-05	5.16E-05	2.88E-05	7.35E-07	1.07E-05	8.06E-06	8.06E-06	4.43E-06	3.99E-07	5.77E-06	3.59E-06	3.59E-06	1.77E-06
1268	258151.39	4084029.82	4.6535E-06	6.73E-05	4.96E-05	4.96E-05	2.77E-05	7.06E-07	1.03E-05	7.75E-06	7.75E-06	4.26E-06	3.84E-07	5.55E-06	3.45E-06	3.45E-06	1.71E-06
1269	258127.06	4084030.82	4.4732E-06	6.47E-05	4.77E-05	4.77E-05	2.66E-05	6.79E-07	9.86E-06	7.45E-06	7.45E-06	4.09E-06	3.69E-07	5.33E-06	3.31E-06	3.31E-06	1.64E-06
1270	258102.73	4084031.82	0.000004299	6.22E-05	4.58E-05	4.58E-05	2.56E-05	6.52E-07	9.47E-06	7.16E-06	7.16E-06	3.93E-06	3.54E-07	5.13E-06	3.18E-06	3.18E-06	1.58E-06
1271	258078.39	4084032.82	0.000004131	5.97E-05	4.40E-05	4.40E-05	2.46E-05	6.27E-07	9.10E-06	6.88E-06	6.88E-06	3.78E-06	3.41E-07	4.93E-06	3.06E-06	3.06E-06	1.51E-06
1272	258054.06	4084033.82	3.9691E-06	5.74E-05	4.23E-05	4.23E-05	2.36E-05	6.02E-07	8.75E-06	6.61E-06	6.61E-06	3.63E-06	3.27E-07	4.73E-06	2.94E-06	2.94E-06	1.45E-06
1273	258029.73	4084034.82	3.8154E-06	5.52E-05	4.07E-05	4.07E-05	2.27E-05	5.79E-07	8.41E-06	6.35E-06	6.35E-06	3.49E-06	3.15E-07	4.55E-06	2.83E-06	2.83E-06	1.40E-06
1274	258005.4	4084035.82	3.6699E-06	5.31E-05	3.91E-05	3.91E-05	2.18E-05	5.57E-07	8.09E-06	6.11E-06	6.11E-06	3.36E-06	3.03E-07	4.38E-06	2.72E-06	2.72E-06	1.35E-06
1275	257981.07	4084036.82	3.5347E-06	5.11E-05	3.77E-05	3.77E-05	2.10E-05	5.36E-07	7.79E-06	5.88E-06	5.88E-06	3.23E-06	2.91E-07	4.21E-06	2.62E-06	2.62E-06	1.30E-06
1276	257956.73	4084037.82	3.4056E-06	4.93E-05	3.63E-05	3.63E-05	2.02E-05	5.17E-07	7.50E-06	5.67E-06	5.67E-06	3.12E-06	2.81E-07	4.06E-06	2.52E-06	2.52E-06	1.25E-06
1277	257932.4	4084038.82	3.2867E-06	4.75E-05	3.50E-05	3.50E-05	1.95E-05	4.99E-07	7.24E-06	5.47E-06	5.47E-06	3.01E-06	2.71E-07	3.92E-06	2.43E-06	2.43E-06	1.20E-06
1278	257908.07	4084039.82	3.1781E-06	4.60E-05	3.39E-05	3.39E-05	1.89E-05	4.82E-07	7.00E-06	5.29E-06	5.29E-06	2.91E-06	2.62E-07	3.79E-06	2.35E-06	2.35E-06	1.16E-06
1279	257883.74	4084040.83	3.0777E-06	4.45E-05	3.28E-05	3.28E-05	1.83E-05	4.67E-07	6.78E-06	5.12E-06	5.12E-06	2.82E-06	2.54E-07	3.67E-06	2.28E-06	2.28E-06	1.13E-06
1280	257859.41	4084041.83	2.9855E-06	4.32E-05	3.18E-05	3.18E-05	1.77E-05	4.53E-07	6.58E-06	4.97E-06	4.97E-06	2.73E-06	2.46E-07	3.56E-06	2.21E-06	2.21E-06	1.09E-06
1281	257835.08	4084042.83	2.9015E-06	4.20E-05	3.09E-05	3.09E-05	1.72E-05	4.40E-07	6.39E-06	4.83E-06	4.83E-06	2.66E-06	2.39E-07	3.46E-06	2.15E-06	2.15E-06	1.06E-06
1282	257810.74	4084043.83	2.8237E-06	4.08E-05	3.01E-05	3.01E-05	1.68E-05	4.29E-07	6.22E-06	4.70E-06	4.70E-06	2.58E-06	2.33E-07	3.37E-06	2.09E-06	2.09E-06	1.04E-06
1283	257786.41	4084044.83	0.000002754	3.98E-05	2.94E-05	2.94E-05	1.64E-05	4.18E-07	6.07E-06	4.58E-06	4.58E-06	2.52E-06	2.27E-07	3.28E-06	2.04E-06	2.04E-06	1.01E-06

1284	257762.08	4084045.83	2.6905E-06	3.89E-05	2.87E-05	2.87E-05	1.60E-05	4.08E-07	5.93E-06	4.48E-06	4.48E-06	2.46E-06	2.22E-07	3.21E-06	1.99E-06	1.99E-06	9.86E-07
1285	257737.75	4084046.83	2.6331E-06	3.81E-05	2.81E-05	2.81E-05	1.56E-05	4.00E-07	5.80E-06	4.38E-06	4.38E-06	2.41E-06	2.17E-07	3.14E-06	1.95E-06	1.95E-06	9.65E-07
1286	257713.42	4084047.83	2.5778E-06	3.73E-05	2.75E-05	2.75E-05	1.53E-05	3.91E-07	5.68E-06	4.29E-06	4.29E-06	2.36E-06	2.12E-07	3.07E-06	1.91E-06	1.91E-06	9.45E-07
1287	257689.08	4084048.83	2.5286E-06	3.66E-05	2.70E-05	2.70E-05	1.50E-05	3.84E-07	5.57E-06	4.21E-06	4.21E-06	2.31E-06	2.08E-07	3.01E-06	1.87E-06	1.87E-06	9.27E-07
1288	257664.75	4084049.83	2.4794E-06	3.59E-05	2.64E-05	2.64E-05	1.47E-05	3.76E-07	5.46E-06	4.13E-06	4.13E-06	2.27E-06	2.04E-07	2.96E-06	1.84E-06	1.84E-06	9.09E-07
1289	257640.42	4084050.83	2.4323E-06	3.52E-05	2.59E-05	2.59E-05	1.45E-05	3.69E-07	5.36E-06	4.05E-06	4.05E-06	2.23E-06	2.00E-07	2.90E-06	1.80E-06	1.80E-06	8.92E-07
1290	257616.09	4084051.83	2.3851E-06	3.45E-05	2.54E-05	2.54E-05	1.42E-05	3.62E-07	5.26E-06	3.97E-06	3.97E-06	2.18E-06	1.97E-07	2.84E-06	1.77E-06	1.77E-06	8.74E-07
1291	257591.76	4084052.83	0.000002338	3.38E-05	2.49E-05	2.49E-05	1.39E-05	3.55E-07	5.15E-06	3.89E-06	3.89E-06	2.14E-06	1.93E-07	2.79E-06	1.73E-06	1.73E-06	8.57E-07
1292	257567.43	4084053.83	2.2888E-06	3.31E-05	2.44E-05	2.44E-05	1.36E-05	3.47E-07	5.04E-06	3.81E-06	3.81E-06	2.09E-06	1.89E-07	2.73E-06	1.70E-06	1.70E-06	8.39E-07
1293	257543.09	4084054.83	2.2397E-06	3.24E-05	2.39E-05	2.39E-05	1.33E-05	3.40E-07	4.93E-06	3.73E-06	3.73E-06	2.05E-06	1.85E-07	2.67E-06	1.66E-06	1.66E-06	8.21E-07
1294	257518.76	4084055.83	2.1905E-06	3.17E-05	2.34E-05	2.34E-05	1.30E-05	3.32E-07	4.83E-06	3.65E-06	3.65E-06	2.00E-06	1.81E-07	2.61E-06	1.62E-06	1.62E-06	8.03E-07
1295	258336.22	4083831.4	3.8666E-06	5.59E-05	4.12E-05	4.12E-05	2.30E-05	5.87E-07	8.52E-06	6.44E-06	6.44E-06	3.54E-06	3.19E-07	4.61E-06	2.86E-06	2.86E-06	1.42E-06
1296	258358.94	4083839.81	4.0675E-06	5.88E-05	4.34E-05	4.34E-05	2.42E-05	6.17E-07	8.96E-06	6.77E-06	6.77E-06	3.72E-06	3.35E-07	4.85E-06	3.01E-06	3.01E-06	1.49E-06
1297	258381.66	4083848.22	4.2847E-06	6.20E-05	4.57E-05	4.57E-05	2.55E-05	6.50E-07	9.44E-06	7.13E-06	7.13E-06	3.92E-06	3.53E-07	5.11E-06	3.17E-06	3.17E-06	1.57E-06
1298	258404.38	4083856.64	4.5203E-06	6.54E-05	4.82E-05	4.82E-05	2.69E-05	6.86E-07	9.96E-06	7.52E-06	7.52E-06	4.14E-06	3.73E-07	5.39E-06	3.35E-06	3.35E-06	1.66E-06
1299	258427.1	4083865.05	4.7744E-06	6.91E-05	5.09E-05	5.09E-05	2.84E-05	7.25E-07	1.05E-05	7.95E-06	7.95E-06	4.37E-06	3.94E-07	5.69E-06	3.54E-06	3.54E-06	1.75E-06
1300	258449.82	4083873.46	0.000005049	7.30E-05	5.38E-05	5.38E-05	3.00E-05	7.66E-07	1.11E-05	8.40E-06	8.40E-06	4.62E-06	4.16E-07	6.02E-06	3.74E-06	3.74E-06	1.85E-06
1301	258472.54	4083881.87	0.000005344	7.73E-05	5.70E-05	5.70E-05	3.18E-05	8.11E-07	1.18E-05	8.90E-06	8.90E-06	4.89E-06	4.41E-07	6.37E-06	3.96E-06	3.96E-06	1.96E-06
1302	258495.26	4083890.28	5.6555E-06	8.18E-05	6.03E-05	6.03E-05	3.36E-05	8.58E-07	1.25E-05	9.41E-06	9.41E-06	5.18E-06	4.66E-07	6.74E-06	4.19E-06	4.19E-06	2.07E-06
1303	258517.98	4083898.69	5.9854E-06	8.66E-05	6.38E-05	6.38E-05	3.56E-05	9.08E-07	1.32E-05	9.96E-06	9.96E-06	5.48E-06	4.93E-07	7.14E-06	4.43E-06	4.43E-06	2.19E-06
1304	258540.7	4083907.11	6.3317E-06	9.16E-05	6.75E-05	6.75E-05	3.76E-05	9.61E-07	1.40E-05	1.05E-05	1.05E-05	5.79E-06	5.22E-07	7.55E-06	4.69E-06	4.69E-06	2.32E-06
1305	258563.42	4083915.52	6.6964E-06	9.69E-05	7.14E-05	7.14E-05	3.98E-05	1.02E-06	1.48E-05	1.11E-05	1.11E-05	6.13E-06	5.52E-07	7.98E-06	4.96E-06	4.96E-06	2.45E-06
1306	258586.14	4083923.93	7.0755E-06	1.02E-04	7.54E-05	7.54E-05	4.21E-05	1.07E-06	1.56E-05	1.18E-05	1.18E-05	6.47E-06	5.83E-07	8.44E-06	5.24E-06	5.24E-06	2.59E-06
1307	258608.86	4083932.34	0.000007469	1.08E-04	7.96E-05	7.96E-05	4.44E-05	1.13E-06	1.65E-05	1.24E-05	1.24E-05	6.83E-06	6.16E-07	8.90E-06	5.53E-06	5.53E-06	2.74E-06
1308	258631.58	4083940.75	7.8767E-06	1.14E-04	8.40E-05	8.40E-05	4.68E-05	1.20E-06	1.74E-05	1.31E-05	1.31E-05	7.21E-06	6.49E-07	9.39E-06	5.83E-06	5.83E-06	2.89E-06
1309	258654.3	4083949.17	8.2947E-06	1.20E-04	8.84E-05	8.84E-05	4.93E-05	1.26E-06	1.83E-05	1.38E-05	1.38E-05	7.59E-06	6.84E-07	9.89E-06	6.14E-06	6.14E-06	3.04E-06
1310	258677.02	4083957.58	0.000008723	1.26E-04	9.30E-05	9.30E-05	5.18E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.98E-06	7.19E-07	1.04E-05	6.46E-06	6.46E-06	3.20E-06
1311	258699.74	4083965.99	9.1595E-06	1.32E-04	9.76E-05	9.76E-05	5.44E-05	1.39E-06	2.02E-05	1.52E-05	1.52E-05	8.38E-06	7.55E-07	1.09E-05	6.78E-06	6.78E-06	3.36E-06
1312	258722.46	4083974.4	0.0000096	1.39E-04	1.02E-04	1.02E-04	5.71E-05	1.46E-06	2.12E-05	1.60E-05	1.60E-05	8.78E-06	7.91E-07	1.14E-05	7.11E-06	7.11E-06	3.52E-06
1313	258745.18	4083982.81	0.000010045	1.45E-04	1.07E-04	1.07E-04	5.97E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.19E-06	8.28E-07	1.20E-05	7.44E-06	7.44E-06	3.68E-06
1314	258767.9	4083991.22	0.000010487	1.52E-04	1.12E-04	1.12E-04	6.23E-05	1.59E-06	2.31E-05	1.75E-05	1.75E-05	9.60E-06	8.64E-07	1.25E-05	7.77E-06	7.77E-06	3.84E-06
1315	258790.62	4083999.64	0.000010928	1.58E-04	1.16E-04	1.16E-04	6.49E-05	1.66E-06	2.41E-05	1.82E-05	1.82E-05	1.00E-05	9.01E-07	1.30E-05	8.09E-06	8.09E-06	4.01E-06
1316	258813.34	4084008.05	0.000011362	1.64E-04	1.21E-04	1.21E-04	6.75E-05	1.72E-06	2.50E-05	1.89E-05	1.89E-05	1.04E-05	9.37E-07	1.35E-05	8.41E-06	8.41E-06	4.17E-06
1317	258836.06	4084016.46	0.000011788	1.71E-04	1.26E-04	1.26E-04	7.01E-05	1.79E-06	2.60E-05	1.96E-05	1.96E-05	1.08E-05	9.72E-07	1.41E-05	8.73E-06	8.73E-06	4.32E-06
1318	258858.78	4084024.87	0.000012206	1.77E-04	1.30E-04	1.30E-04	7.26E-05	1.85E-06	2.69E-05	2.03E-05	2.03E-05	1.12E-05	1.01E-06	1.46E-05	9.04E-06	9.04E-06	4.47E-06
1319	258881.5	4084033.28	0.00001261	1.82E-04	1.34E-04	1.34E-04	7.49E-05	1.91E-06	2.78E-05	2.10E-05	2.10E-05	1.15E-05	1.04E-06	1.50E-05	9.34E-06	9.34E-06	4.62E-06
1320	258904.22	4084041.7	0.000012995	1.88E-04	1.39E-04	1.39E-04	7.72E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.62E-06	9.62E-06	4.76E-06
1321	258926.94	4084050.11	0.000013358	1.93E-04	1.42E-04	1.42E-04	7.94E-05	2.03E-06	2.94E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.89E-06	9.89E-06	4.90E-06
1322	258949.66	4084058.52	0.000013665	1.98E-04	1.46E-04	1.46E-04	8.12E-05	2.07E-06	3.01E-05	2.27E-05	2.27E-05	1.25E-05	1.13E-06	1.63E-05	1.01E-05	1.01E-05	5.01E-06
1323	258972.38	4084066.93	0.000013971	2.02E-04	1.49E-04	1.49E-04	8.30E-05	2.12E-06	3.08E-05	2.33E-05	2.33E-05	1.28E-05	1.15E-06	1.67E-05	1.03E-05	1.03E-05	5.12E-06
1324	258995.1	4084075.34	0.000014249	2.06E-04	1.52E-04	1.52E-04	8.47E-05	2.16E-06	3.14E-05	2.37E-05	2.37E-05	1.30E-05	1.17E-06	1.70E-05	1.06E-05	1.06E-05	5.22E-06
1325	259017.82	4084083.75	0.000014497	2.10E-04	1.55E-04	1.55E-04	8.62E-05	2.20E-06	3.19E-05	2.41E-05	2.41E-05	1.33E-05	1.19E-06	1.73E-05	1.07E-05	1.07E-05	5.31E-06
1326	259040.54	4084092.17	0.000014708	2.13E-04	1.57E-04	1.57E-04	8.74E-05	2.23E-06	3.24E-05	2.45E-05	2.45E-05	1.35E-05	1.21E-06	1.75E-05	1.09E-05	1.09E-05	5.39E-06
1327	259063.26	4084100.58	0.000014878	2.15E-04	1.59E-04	1.59E-04	8.84E-05	2.26E-06	3.28E-05	2.48E-05	2.48E-05	1.36E-05	1.23E-06	1.77E-05	1.10E-05	1.10E-05	5.45E-06
1328	259085.98	4084108.99	0.00001501	2.17E-04	1.60E-04	1.60E-04	8.92E-05	2.28E-06	3.31E-05	2.50E-05	2.50E-05	1.37E-05	1.24E-06	1.79E-05	1.11E-05	1.11E-05	5.50E-06
1329	259118.68	4084139.48	0.00001554	2.25E-04	1.66E-04	1.66E-04	9.24E-05	2.36E-06	3.42E-05	2.59E-05	2.59E-05	1.42E-05	1.28E-06	1.85E-05	1.15E-05	1.15E-05	5.70E-06
1330	259128.67	4084161.55	0.000015948	2.31E-04	1.70E-04	1.70E-04	9.48E-05	2.42E-06	3.51E-05	2.65E-05	2.65E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.85E-06
1331	259138.66	4084183.62	0.000016313	2.36E-04	1.74E-04	1.74E-04	9.70E-05	2.48E-06	3.59E-05	2.72E-05	2.72E-05	1.49E-05	1.34E-06	1.94E-05	1.21E-05	1.21E-05	5.98E-06
1332	259148.64	4084205.7	0.000016633	2.41E-04	1.77E-04	1.77E-04	9.89E-05	2.52E-06	3.66E-05	2.77E-05	2.77E-05	1.52E-05	1.37E-06	1.98E-05	1.23E-05	1.23E-05	6.10E-06
1333	259158.63	4084227.77	0.000016899	2.44E-04	1.80E-04	1.80E-04	1.00E-04	2.56E-06	3.72E-05	2.81E-05	2.81E-05	1.55E-05	1.39E-06	2.01E-05	1.25E-05	1.25E-05	6.19E-06
1334	259168.61	4084249.84	0.000017108	2.47E-04	1.82E-04	1.82E-04	1.02E-04	2.60E-06	3.77E-05	2.85E-05	2.85E-05	1.57E-05	1.41E-06	2.04E-05	1.27E-05	1.27E-05	6.27E-06
1335	259178.6	4084271.92	0.000017255	2.50E-04	1.84E-04	1.84E-04	1.03E-04	2.62E-06	3.80E-05	2.87E-05	2.87E-05	1.58E-05	1.42E-06	2.06E-05	1.28E-05	1.28E-05	6.33E-06
1336	259188.59	4084293.99	0.000017341	2.51E-04	1.85E-04	1.85E-04	1.03E-04	2.63E-06	3.82E-05	2.89E-05	2.89E-05	1.59E-05	1.43E-06	2.07E-05	1.28E-05	1.28E-05	6.36E-06
1337	259198.57	4084316.06	0.000017362	2.51E-04	1.85E-04	1.85E-04	1.03E-04	2.64E-06	3.83E-05	2.89E-05	2.89E-05	1.59E-05	1.43E-06	2.07E-05	1.29E-05	1.29E-05	6.36E-06
1338	259208.56	4084338.14	0.000017319	2.50E-04	1.85E-04	1.85E-04	1.03E-04	2.63E-06	3.82E-05	2.88E-05	2.88E-05	1.58E-05	1.43E-06	2.06E-05	1.28E-05	1.28E-05	6.35E-06
1339	259218.54	4084360.21	0.000017219	2.49E-04	1.84E-04	1.84E-04	1.02E-04	2.61E-06	3.79E-05	2.87E-05	2.87E-05	1.58E-05	1.42E-06	2.05E-05	1.28E-05	1.28E-05	6.31E-06
1340	259228.53	4084382.28	0.000017059	2.47E-04	1.82E-04	1.82E-04	1.01E-04	2.59E-06	3.76E-05	2.84E-05	2.84E-05	1.56E-05	1.41E-06	2.03E-05	1.26E-05	1.26E-05	6.25E-06
1341	259238.52	4084404.36	0.000016844	2.44E-04	1.80E-04	1.80E-04	1.00E-04	2.56E-06	3.71E-05	2.80E-05	2.80E-05	1.54E-05	1.39E-06	2.01E-05	1.25E-05	1.25E-05	6.17E-06
1342	259248.5	4084426.43	0.000016647	2.41E-04	1.77E-04	1.77E-04	9.89E-05	2.53E-06	3.67E-05	2.77E-05	2.77E-05	1.52E-05	1.37E-06	1.98E-05	1.23E-05	1.23E-05	6.10E-06
1343	259258.49	4084448.5	0.000016344	2.36E-04	1.74E-04	1.74E-04	9.71E-05	2.48E-06	3.60E-05	2.72E-05	2.72E-05	1.50E-05	1.35E-06	1.95E-05	1.21E-05	1.21E-05	5.99E-06
1344	259268.48	4084470.58	0.000016003	2.31E-04	1.71E-04	1.71E-04	9.51E-05	2.43E-06	3.53E-05	2.66E-05	2.66E-05	1.46E-05	1.32E-06	1.91E-05	1.19E-05	1.19E-05	5.87E-06
1345	259278.46	4084492.65	0.000015635	2.26E-04	1.67E-04	1.67E-04	9.29E-05	2.37E-06	3.44E-05	2.60E-05	2.60E-05	1.43E-05	1.29E-06	1.86E-05	1.16E-05	1.16E-05	5.73E-06
1346	259288.45	4084514.72	0.000015243	2.20E-04	1.63E-04	1.63E-04	9.06E-05	2.31E-06	3.36E-05	2.54E-05	2.54E-05	1.39E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.59E-06
1347	259298.43	4084536.8	0.000014835	2.15E-04	1.58E-04	1.58E-04	8.82E-05	2.25E-06	3.27E-05	2.47E-05	2.47E-05	1.36E-05	1.22E-06	1.77E-05	1.10E-05	1.10E-05	5.44E-06
1348	259308.42	4084558.87	0.000014411	2.08E-04	1.54E-04	1.54E-04	8.57E-05	2.19E-06	3.18E-05	2.40E-05	2.40E-05	1.32E-05	1.19E-06	1.72E-05	1.07E-05	1.07E-05	5.28E-06
1349	259318.41	4084580.94	0.000013973	2.02E-04	1.49E-04	1.49E-04	8.30E-05	2.12E-06	3.08E-05	2.33E-05	2.33E-05	1.28E-05	1.15E-06	1.67E-05	1.03E-05	1.03E-05	5.12E-06
1350	259328.39	4084603.02	0.000013518	1.96E-04	1.44E-04	1.44E-04	8.03E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.11E-06	1.61E-05	1.00E-05	1.00E-05	4.96E-06
1351	259338.38	4084625.09	0.000013045	1.89E-04	1.39E-04	1.39E-04	7.75E-05	1.98E-06	2.87E-05	2.17E-05	2.17E-05	1.19E-05	1.08E-06	1.56E-05	9.66E-06	9.66E-06	4.78E-06
1352	259348.36	4084647.16	0.000012557	1.82E-04	1.34E-04	1.34E-04	7.46E-05	1.91E-06	2.77E-05	2.09E-05	2.09E-05	1.15E-05	1.04E-06	1.50E-05	9.30E-06	9.30E-06	4.60E-06
1353	259358.35	4084669.24	0.000012055	1.74E-04	1.29E-04	1.29E-04	7.16E-05	1.83E-06	2.66E-05	2.01E-05	2.01E-05	1.10E-05	9.94E-07	1.44E-05	8.93E-06	8.93E-06	4.42E-06
1354	259368.34	4084691.31	0.000011549	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.52E-07	1.38E-05	8.55E-06	8.55E-06	4.23E-06
1355	259378.32	4084713.38	0.000011051	1.60E-04	1.18E-04	1.18E-04	6.57E-05	1.68E-06	2.43E-05	1.84E-05	1.84E-05	1.01E-05	9.11E-07	1.32E-05	8.18E-06	8.18E-06	4.05E-06
1356	259388.31	4084735.46	0.000010569	1.53E-04	1.13E-04	1.13E-04	6.28E-05	1.60E-06	2.33E-05	1.76E-05	1.76E-05	9.67E-06	8.71E-07	1.26E-05	7.83E-06	7.83E-06	3.87E-06
1357	259398.29	4084757.53	0.000010112	1.46E-04	1.08E-04	1.08E-04	6.01E-05	1.53E-06	2.23E-05	1.68E-05	1.68E-05	9.25E-06	8.34E-07	1.21E-05	7.49E-06	7.49E-06	3.71E-06
1358	259408.28	4084779.6	9.6861E-06	1.40E-04	1.03E-04	1.03E-04	5.76E-05	1.47E-06	2.13E-05	1.61E-05	1.61E-05	8.86E-06	7.98E-07	1.15E-05	7.17E-06	7.17E-06	3.55E-06
1359	259418.27	4084801.68	9.2906E-06	1.34E-04	9.90E-05	9.90E-05	5.52E-05	1.41E-06	2.05E-05	1.55E-05	1.55E-05	8.50E-06	7.66E-07	1.11E-05	6.88E-06	6.88E-06	3.41E-06
1360	259428.25	4084823.75	8.9177E-06	1.29E-04	9.51E-05	9.51E-05	5.30E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.16E-06	7.35E-07	1.06E-05	6.60E-06	6.60E-06	3.27E-06
1361	259438.24	4084845.82	8.5632E-06	1.24E-04	9.13E-05	9.13E-05	5.09E-05	1.30E-06	1.89E-05	1.43E-05	1.43E-05	7.84E-06	7.06E-07	1.02E-05	6.34E-06	6.34E-06	3.14E-06
1362	259448.23	4084867.9	8.2189E-06	1.19E-04	8.76E-05	8.76E-05	4.88E-05	1.25E-06	1.81E-05	1.37E-05	1.37E-05	7.52E-06	6.77E-07	9.80E-06	6.09E-06	6.09E-06	3.01E-06
1363	258313.5	4083822.99	3.6843E-06	5.33E-05	3.93E-05	3.93E-05	2.19E-05	5.59E-07	8.12E-06	6.13E-06	6.13E-06	3.37E-06	3.04E-07	4.39E-06	2.73E-06	2.73E-06	1.35E-06
1364	258289.16	4083823.99	3.5757E-06	5.17E-05	3.81E-05	3.81E-05	2.13E-05	5.43E-07	7.88E-06	5.95E-06	5.95E-06	3.27E-06	2.95E-07	4.26E-06	2.65E-06	2.65E-06	1.31E-06
1365	258264.83	4083824.99	3.4712E-06	5.02E-05	3.70E-05	3.70E-05	2.06E-05	5.27E-07	7.65E-06	5.78E-06	5.78E-06	3.18E-06	2.86E-07	4.14E-06	2.57E-06	2.57E-06	1.27E-06
1366	258240.5	4083825.99	3.3708E-06	4.88E-05	3.59E-05	3.59E-05	2.00E-05	5.12E-07	7.43E-06	5.61E-06	5.61E-06	3.08E-06	2.78E-07	4.02E-06	2.50E-06	2.50E-06	1.24E-06
1367	258216.17	4083826.99	3.2724E-06	4.73E-05	3.49E-05	3.49E-05	1.94E-05	4.97E-07	7.21E-06	5.45E-06	5.45E-06	2.99E-06	2.70E-07	3.90E-06	2.42E-06	2.42E-06	1.20E-06
1368	258191.84	4083827.99	0.000003174	4.59E-05	3.38E-05	3.38E-05	1.89E-05	4.82E-07	6.99E-06	5.28E-06	5.28E-06	2.90E-06	2.62E-07	3.78E-06	2.35E-06	2.35E-06	1.16E-06
1369	258167.51	4083828.99	3.0798E-06	4.45E-05	3.28E-05	3.28E-05	1.83E-05	4.67E-07	6.79E-06	5.13E-06	5.13E-06	2.82E-06	2.54E-07	3.67E-06	2.28E-06	2.28E-06	1.13E-06
1370	258143.17	4083829.99	2.9855E-06	4.32E-05	3.18E-05	3.18E-05	1.77E-05	4.53E-07	6.58E-06	4.97E-06	4.97E-06	2.73E-06	2.46E-07	3.56E-06	2.21E-06	2.21E-06	1.09E-06
1371	258118.84	4083830.99	2.8933E-06	4.18E-05	3.08E-05	3.08E-05	1.72E-05	4.39E-07	6.38E-06	4.82E-06	4.82E-06	2.65E-06	2.38E-07	3.45E-06	2.14E-06	2.14E-06	1.06E-06
1372	258094.51	4083831.99	2.8011E-06	4.05E-05	2.99E-05	2.99E-05	1.66E-05	4.25E-07	6.17E-06	4.66E-06	4.66E-06	2.56E-06	2.31E-07	3.34E-06	2.07E-06	2.07E-06	1.03E-06
1373	258070.18	4083832.99	0.000002713	3.92E-05	2.89E-05	2.89E-05	1.61E-05	4.12E-07	5.98E-06	4.52E-06	4.52E-06	2.48E-06	2.24E-07	3.23E-06	2.01E-06	2.01E-06	9.95E-07
1374	258045.85	4083833.99	0.000002629	3.80E-05	2.80E-05	2.80E-05	1.56E-05	3.99E-07	5.79E-06	4.38E-06	4.38E-06	2.41E-06	2.17E-07	3.13E-06	1.95E-06	1.95E-06	9.64E-07
1375	258021.51	4083834.99	0.000002547	3.68E-05	2.72E-05	2.72E-05	1.51E-05	3.87E-07	5.61E-06	4.24E-06	4.24E-06	2.33E-06	2.10E-07	3.04E-06	1.89E-06	1.89E-06	9.34E-07
1376	257997.18	4083835.99	2.4692E-06	3.57E-05	2.63E-05	2.63E-05	1.47E-05	3.75E-07	5.44E-06	4.11E-06	4.11E-06	2.26E-06	2.04E-07	2.94E-06	1.83E-06	1.83E-06	9.05E-07
1377	257972.85	4083836.99	2.3933E-06	3.46E-05	2.55E-05	2.55E-05	1.42E-05	3.63E-07	5.27E-06	3.98E-06	3.98E-06	2.19E-06	1.97E-07	2.85E-06	1.77E-06	1.77E-06	8.77E-07
1378	257948.52	4083837.99	2.3257E-06	3.36E-05	2.48E-05	2.48E-05	1.38E-05	3.53E-07	5.12E-06	3.87E-06	3.87E-06	2.13E-06	1.92E-07	2.77E-06	1.72E-06	1.72E-06	8.53E-07
1379	257924.19	4083838.99	2.2602E-06	3.27E-05	2.41E-05	2.41E-05	1.34E-05	3.43E-07	4.98E-06	3.76E-06	3.76E-06	2.07E-06	1.86E-07	2.69E-06	1.67E-06	1.67E-06	8.28E-07
1380	257899.86	4083839.99	2.2007E-06	3.18E-05	2.35E-05	2.35E-05	1.31E-05	3.34E-07	4.85E-06	3.66E-06	3.66E-06	2.01E-06	1.81E-07	2.62E-06	1.63E-06	1.63E-06	8.07E-07
1381	257875.52	4083840.99	2.1434E-06	3.10E-05	2.28E-05	2.28E-05	1.27E-05	3.25E-07	4.72E-06	3.57E-06	3.57E-06	1.96E-06	1.77E-07	2.56E-06	1.59E-06	1.59E-06	7.86E-07
1382	257851.19	4083841.99	2.0921E-06	3.03E-05	2.23E-05	2.23E-05	1.24E-05	3.18E-07	4.61E-06	3.48E-06	3.48E-06	1.91E-06	1.72E-07	2.49E-06	1.55E-06	1.55E-06	7.67E-07
1383	257826.86	4083842.99	0.000002045	2.96E-05	2.18E-05	2.18E-05	1.22E-05	3.10E-07	4.51E-06	3.40E-06	3.40E-06	1.87E-06	1.69E-07	2.44E-06	1.51E-06	1.51E-06	7.50E-07
1384	257802.53	4083843.99	0.000002002	2.90E-05	2.13E-05	2.13E-05	1.19E-05	3.04E-07	4.41E-06	3.33E-06	3.33E-06	1.83E-06	1.65E-07	2.39E-06	1.48E-06	1.48E-06	7.34E-07
1385	257778.2	4083845	0.000001963	2.84E-05	2.09E-05	2.09E-05	1.17E-05	2.98E-07	4.33E-06	3.27E-06	3.27E-06	1.80E-06	1.62E-07	2.34E-06	1.45E-06	1.45E-06	7.20E-07
1386	257753.86	4083846	1.9282E-06	2.79E-05	2.06E-05	2.06E-05	1.15E-05	2.93E-07	4.25E-06	3.21E-06	3.21E-06	1.76E-06	1.59E-07	2.30E-06	1.43E-06	1.43E-06	7.07E-07
1387	257729.53	4083847	1.8954E-06	2.74E-05	2.02E-05	2.02E-05	1.13E-05	2.88E-07	4.18E-06	3.15E-06	3.15E-06	1.73E-06	1.56E-07	2.26E-06	1.40E-06	1.40E-06	6.95E-07
1388	257705.2	4083848	1.8647E-06	2.70E-05	1.99E-05	1.99E-05	1.11E-05	2.83E-07	4.11E-06	3.10E-06	3.10E-06	1.71E-06	1.54E-07	2.22E-06	1.38E-06	1.38E-06	6.84E-07
1389	257680.87	4083849	0.000001838	2.66E-05	1.96E-05	1.96E-05	1.09E-05	2.79E-07	4.05E-06	3.06E-06	3.06E-06	1.68E-06	1.52E-07	2.19E-06	1.36E-06	1.36E-06	6.74E-07
1390	257656.54	4083850	1.8114E-06	2.62E-05	1.93E-05	1.93E-05	1.08E-05	2.75E-07	3.99E-06	3.02E-06	3.02E-06	1.66E-06	1.49E-07	2.16E-06	1.34E-06	1.34E-06	6.64E-07
1391	257632.21	4083851	1.7889E-06	2.59E-05	1.91E-05	1.91E-05	1.06E-05	2.71E-07	3.94E-06	2.98E-06	2.98E-06	1.64E-06	1.47E-07	2.13E-06	1.32E-06	1.32E-06	6.56E-07
1392	257607.87	4083852	1.7643E-06	2.55E-05	1.88E-05	1.88E-05	1.05E-05	2.68E-07	3.89E-06	2.94E-06	2.94E-06	1.61E-06	1.45E-07	2.10E-06	1.31E-06	1.31E-06	6.47E-07
1393	257583.54	4083853	1.7417E-06	2.52E-05	1.86E-05	1.86E-05	1.04E-05	2.64E-07	3.84E-06	2.90E-06	2.90E-06	1.59E-06	1.44E-07	2.08E-06	1.29E-06	1.29E-06	6.38E-07
1394	257559.21	4083854	1.7192E-06	2.49E-05	1.83E-05	1.83E-05	1.02E-05	2.61E-07	3.79E-06	2.86E-06	2.86E-06	1.57E-06	1.42E-07	2.05E-06	1.27E-06	1.27E-06	6.30E-07
1395	257534.88	4083855	1.6946E-06	2.45E-05	1.81E-05	1.81E-05	1.01E-05	2.57E-07	3.73E-06	2.82E-06	2.82E-06	1.55E-06	1.40E-07	2.02E-06	1.25E-06	1.25E-06	6.21E-07
1396	257510.55	4083856	1.6721E-06	2.42E-05	1.78E-05	1.78E-05	9.94E-06	2.54E-07	3.68E-06	2.78E-06	2.78E-06	1.53E-06	1.38E-07	1.99E-06	1.24E-06	1.24E-06	6.13E-07
1397	258327.66	4083631.44	2.6187E-06	3.79E-05	2.79E-05	2.79E-05	1.56E-05	3.97E-07	5.77E-06	4.36E-06	4.36E-06	2.40E-06	2.16E-07	3.12E-06	1.94E-06	1.94E-06	9.60E-07
1398	258350.03	4083639.73	2.7212E-06	3.94E-05	2.90E-05	2.90E-05	1.62E-05	4.13E-07	6.00E-06	4.53E-06	4.53E-06	2.49E-06	2.24E-07	3.24E-06	2.02E-06	2.02E-06	9.98E-07
1399	258372.41	4083648.01	2.8298E-06	4.09E-05	3.02E-05	3.02E-05	1.68E-05	4.29E-07	6.24E-06	4.71E-06	4.71E-06	2.59E-06	2.33E-07	3.37E-06	2.10E-06	2.10E-06	1.04E-06
1400	258394.78	4083656.29	2.9466E-06	4.26E-05	3.14E-05	3.14E-05	1.75E-05	4.47E-07	6.49E-06	4.90E-06	4.90E-06	2.70E-06	2.43E-07	3.51E-06	2.18E-06	2.18E-06	1.08E-06

1401	258417.16	4083664.58	3.0736E-06	4.45E-05	3.28E-05	3.28E-05	1.83E-05	4.66E-07	6.77E-06	5.12E-06	5.12E-06	2.81E-06	2.53E-07	3.66E-06	2.28E-06	2.28E-06	1.13E-06
1402	258439.54	4083672.86	3.2089E-06	4.64E-05	3.42E-05	3.42E-05	1.91E-05	4.87E-07	7.07E-06	5.34E-06	5.34E-06	2.94E-06	2.65E-07	3.83E-06	2.38E-06	2.38E-06	1.18E-06
1403	258461.91	4083681.15	3.3544E-06	4.85E-05	3.58E-05	3.58E-05	1.99E-05	5.09E-07	7.39E-06	5.58E-06	5.58E-06	3.07E-06	2.77E-07	4.00E-06	2.48E-06	2.48E-06	1.23E-06
1404	258484.29	4083689.43	3.5101E-06	5.08E-05	3.74E-05	3.74E-05	2.09E-05	5.33E-07	7.73E-06	5.84E-06	5.84E-06	3.21E-06	2.89E-07	4.18E-06	2.60E-06	2.60E-06	1.29E-06
1405	258506.66	4083697.72	3.6802E-06	5.32E-05	3.92E-05	3.92E-05	2.19E-05	5.59E-07	8.11E-06	6.13E-06	6.13E-06	3.37E-06	3.03E-07	4.39E-06	2.73E-06	2.73E-06	1.35E-06
1406	258529.04	4083706	3.8605E-06	5.58E-05	4.12E-05	4.12E-05	2.29E-05	5.86E-07	8.51E-06	6.43E-06	6.43E-06	3.53E-06	3.18E-07	4.60E-06	2.86E-06	2.86E-06	1.42E-06
1407	258551.41	4083714.29	4.0531E-06	5.86E-05	4.32E-05	4.32E-05	2.41E-05	6.15E-07	8.93E-06	6.75E-06	6.75E-06	3.71E-06	3.34E-07	4.83E-06	3.00E-06	3.00E-06	1.49E-06
1408	258573.79	4083722.57	0.000004258	6.16E-05	4.54E-05	4.54E-05	2.53E-05	6.46E-07	9.38E-06	7.09E-06	7.09E-06	3.90E-06	3.51E-07	5.08E-06	3.15E-06	3.15E-06	1.56E-06
1409	258596.17	4083730.85	4.4752E-06	6.47E-05	4.77E-05	4.77E-05	2.66E-05	6.79E-07	9.86E-06	7.45E-06	7.45E-06	4.10E-06	3.69E-07	5.34E-06	3.31E-06	3.31E-06	1.64E-06
1410	258618.54	4083739.14	4.7027E-06	6.80E-05	5.01E-05	5.01E-05	2.79E-05	7.14E-07	1.04E-05	7.83E-06	7.83E-06	4.30E-06	3.88E-07	5.61E-06	3.48E-06	3.48E-06	1.72E-06
1411	258640.92	4083747.42	4.9424E-06	7.15E-05	5.27E-05	5.27E-05	2.94E-05	7.50E-07	1.09E-05	8.23E-06	8.23E-06	4.52E-06	4.07E-07	5.89E-06	3.66E-06	3.66E-06	1.81E-06
1412	258663.29	4083755.71	5.1904E-06	7.51E-05	5.53E-05	5.53E-05	3.08E-05	7.88E-07	1.14E-05	8.64E-06	8.64E-06	4.75E-06	4.28E-07	6.19E-06	3.84E-06	3.84E-06	1.90E-06
1413	258685.67	4083763.99	5.4506E-06	7.88E-05	5.81E-05	5.81E-05	3.24E-05	8.27E-07	1.20E-05	9.07E-06	9.07E-06	4.99E-06	4.49E-07	6.50E-06	4.04E-06	4.04E-06	2.00E-06
1414	258708.04	4083772.28	0.000005719	8.27E-05	6.10E-05	6.10E-05	3.40E-05	8.68E-07	1.26E-05	9.52E-06	9.52E-06	5.23E-06	4.71E-07	6.82E-06	4.24E-06	4.24E-06	2.10E-06
1415	258730.42	4083780.56	5.9957E-06	8.67E-05	6.39E-05	6.39E-05	3.56E-05	9.10E-07	1.32E-05	9.98E-06	9.98E-06	5.49E-06	4.94E-07	7.15E-06	4.44E-06	4.44E-06	2.20E-06
1416	258752.8	4083788.84	6.2825E-06	9.09E-05	6.70E-05	6.70E-05	3.73E-05	9.53E-07	1.38E-05	1.05E-05	1.05E-05	5.75E-06	5.18E-07	7.49E-06	4.65E-06	4.65E-06	2.30E-06
1417	258775.17	4083797.13	6.5735E-06	9.51E-05	7.01E-05	7.01E-05	3.91E-05	9.98E-07	1.45E-05	1.09E-05	1.09E-05	6.02E-06	5.42E-07	7.84E-06	4.87E-06	4.87E-06	2.41E-06
1418	258797.55	4083805.41	6.8727E-06	9.94E-05	7.33E-05	7.33E-05	4.08E-05	1.04E-06	1.51E-05	1.14E-05	1.14E-05	6.29E-06	5.67E-07	8.19E-06	5.09E-06	5.09E-06	2.52E-06
1419	258819.92	4083813.7	0.000007178	1.04E-04	7.65E-05	7.65E-05	4.27E-05	1.09E-06	1.58E-05	1.19E-05	1.19E-05	6.57E-06	5.92E-07	8.56E-06	5.32E-06	5.32E-06	2.63E-06
1420	258842.3	4083821.98	7.4853E-06	1.08E-04	7.98E-05	7.98E-05	4.45E-05	1.14E-06	1.65E-05	1.25E-05	1.25E-05	6.85E-06	6.17E-07	8.92E-06	5.54E-06	5.54E-06	2.74E-06
1421	258864.68	4083830.27	7.7948E-06	1.13E-04	8.31E-05	8.31E-05	4.63E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.13E-06	6.43E-07	9.29E-06	5.77E-06	5.77E-06	2.86E-06
1422	258887.05	4083838.55	8.1062E-06	1.17E-04	8.64E-05	8.64E-05	4.82E-05	1.23E-06	1.79E-05	1.35E-05	1.35E-05	7.42E-06	6.68E-07	9.66E-06	6.00E-06	6.00E-06	2.97E-06
1423	258909.43	4083846.83	8.4156E-06	1.22E-04	8.97E-05	8.97E-05	5.00E-05	1.28E-06	1.85E-05	1.40E-05	1.40E-05	7.70E-06	6.94E-07	1.00E-05	6.23E-06	6.23E-06	3.08E-06
1424	258931.8	4083855.12	0.000008725	1.26E-04	9.30E-05	9.30E-05	5.19E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.98E-06	7.19E-07	1.04E-05	6.46E-06	6.46E-06	3.20E-06
1425	258954.18	4083863.4	9.0304E-06	1.31E-04	9.63E-05	9.63E-05	5.37E-05	1.37E-06	1.99E-05	1.50E-05	1.50E-05	8.26E-06	7.44E-07	1.08E-05	6.69E-06	6.69E-06	3.31E-06
1426	258976.55	4083871.69	9.3316E-06	1.35E-04	9.95E-05	9.95E-05	5.55E-05	1.42E-06	2.06E-05	1.55E-05	1.55E-05	8.54E-06	7.69E-07	1.11E-05	6.91E-06	6.91E-06	3.42E-06
1427	258998.93	4083879.97	9.6246E-06	1.39E-04	1.03E-04	1.03E-04	5.72E-05	1.46E-06	2.12E-05	1.60E-05	1.60E-05	8.81E-06	7.93E-07	1.15E-05	7.13E-06	7.13E-06	3.53E-06
1428	259021.31	4083888.26	9.9074E-06	1.43E-04	1.06E-04	1.06E-04	5.89E-05	1.50E-06	2.18E-05	1.65E-05	1.65E-05	9.07E-06	8.17E-07	1.18E-05	7.34E-06	7.34E-06	3.63E-06
1429	259043.68	4083896.54	0.00001018	1.47E-04	1.09E-04	1.09E-04	6.05E-05	1.55E-06	2.24E-05	1.69E-05	1.69E-05	9.32E-06	8.39E-07	1.21E-05	7.54E-06	7.54E-06	3.73E-06
1430	259066.06	4083904.83	0.000010432	1.51E-04	1.11E-04	1.11E-04	6.20E-05	1.58E-06	2.30E-05	1.74E-05	1.74E-05	9.55E-06	8.60E-07	1.24E-05	7.73E-06	7.73E-06	3.82E-06
1431	259088.43	4083913.11	0.00001067	1.54E-04	1.14E-04	1.14E-04	6.34E-05	1.62E-06	2.35E-05	1.78E-05	1.78E-05	9.76E-06	8.80E-07	1.27E-05	7.90E-06	7.90E-06	3.91E-06
1432	259110.81	4083921.39	0.000010889	1.57E-04	1.16E-04	1.16E-04	6.47E-05	1.65E-06	2.40E-05	1.81E-05	1.81E-05	9.96E-06	8.98E-07	1.30E-05	8.06E-06	8.06E-06	3.99E-06
1433	259133.18	4083929.68	0.00001109	1.60E-04	1.18E-04	1.18E-04	6.59E-05	1.68E-06	2.44E-05	1.85E-05	1.85E-05	1.01E-05	9.14E-07	1.32E-05	8.21E-06	8.21E-06	4.07E-06
1434	259155.56	4083937.96	0.000011266	1.63E-04	1.20E-04	1.20E-04	6.70E-05	1.71E-06	2.48E-05	1.88E-05	1.88E-05	1.03E-05	9.29E-07	1.34E-05	8.34E-06	8.34E-06	4.13E-06
1435	259177.94	4083946.25	0.000011413	1.65E-04	1.22E-04	1.22E-04	6.78E-05	1.73E-06	2.51E-05	1.90E-05	1.90E-05	1.04E-05	9.41E-07	1.36E-05	8.45E-06	8.45E-06	4.18E-06
1436	259200.31	4083954.53	0.000011545	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.52E-07	1.38E-05	8.55E-06	8.55E-06	4.23E-06
1437	259222.69	4083962.82	0.000011653	1.69E-04	1.24E-04	1.24E-04	6.93E-05	1.77E-06	2.57E-05	1.94E-05	1.94E-05	1.07E-05	9.61E-07	1.39E-05	8.63E-06	8.63E-06	4.27E-06
1438	259254.9	4083992.84	0.000012051	1.74E-04	1.28E-04	1.28E-04	7.16E-05	1.83E-06	2.66E-05	2.01E-05	2.01E-05	1.10E-05	9.93E-07	1.44E-05	8.92E-06	8.92E-06	4.42E-06
1439	259264.73	4084014.58	0.000012342	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
1440	259274.57	4084036.32	0.000012618	1.83E-04	1.35E-04	1.35E-04	7.50E-05	1.92E-06	2.78E-05	2.10E-05	2.10E-05	1.15E-05	1.04E-06	1.50E-05	9.34E-06	9.34E-06	4.63E-06
1441	259284.4	4084058.06	0.00001287	1.86E-04	1.37E-04	1.37E-04	7.65E-05	1.95E-06	2.84E-05	2.14E-05	2.14E-05	1.18E-05	1.06E-06	1.53E-05	9.53E-06	9.53E-06	4.72E-06
1442	259294.24	4084079.8	0.000013094	1.89E-04	1.40E-04	1.40E-04	7.78E-05	1.99E-06	2.89E-05	2.18E-05	2.18E-05	1.20E-05	1.08E-06	1.56E-05	9.70E-06	9.70E-06	4.80E-06
1443	259304.07	4084101.53	0.000013286	1.92E-04	1.42E-04	1.42E-04	7.90E-05	2.02E-06	2.93E-05	2.21E-05	2.21E-05	1.22E-05	1.10E-06	1.58E-05	9.84E-06	9.84E-06	4.87E-06
1444	259313.91	4084123.27	0.000013446	1.94E-04	1.43E-04	1.43E-04	7.99E-05	2.04E-06	2.96E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.60E-05	9.96E-06	9.96E-06	4.93E-06
1445	259323.74	4084145.01	0.000013569	1.96E-04	1.45E-04	1.45E-04	8.06E-05	2.06E-06	2.99E-05	2.26E-05	2.26E-05	1.24E-05	1.12E-06	1.62E-05	1.00E-05	1.00E-05	4.97E-06
1446	259333.58	4084166.75	0.000013653	1.97E-04	1.46E-04	1.46E-04	8.11E-05	2.07E-06	3.01E-05	2.27E-05	2.27E-05	1.25E-05	1.13E-06	1.63E-05	1.01E-05	1.01E-05	5.00E-06
1447	259343.41	4084188.49	0.0000137	1.98E-04	1.46E-04	1.46E-04	8.14E-05	2.08E-06	3.02E-05	2.28E-05	2.28E-05	1.25E-05	1.13E-06	1.63E-05	1.01E-05	1.01E-05	5.02E-06
1448	259353.25	4084210.23	0.000013706	1.98E-04	1.46E-04	1.46E-04	8.15E-05	2.08E-06	3.02E-05	2.28E-05	2.28E-05	1.25E-05	1.13E-06	1.63E-05	1.02E-05	1.02E-05	5.02E-06
1449	259363.08	4084231.97	0.000013674	1.98E-04	1.46E-04	1.46E-04	8.13E-05	2.08E-06	3.01E-05	2.28E-05	2.28E-05	1.25E-05	1.13E-06	1.63E-05	1.01E-05	1.01E-05	5.01E-06
1450	259372.92	4084253.71	0.000013602	1.97E-04	1.45E-04	1.45E-04	8.08E-05	2.06E-06	3.00E-05	2.26E-05	2.26E-05	1.24E-05	1.12E-06	1.62E-05	1.01E-05	1.01E-05	4.99E-06
1451	259382.75	4084275.45	0.000013495	1.95E-04	1.44E-04	1.44E-04	8.02E-05	2.05E-06	2.97E-05	2.25E-05	2.25E-05	1.23E-05	1.11E-06	1.61E-05	9.99E-06	9.99E-06	4.95E-06
1452	259392.59	4084297.18	0.000013352	1.93E-04	1.42E-04	1.42E-04	7.94E-05	2.03E-06	2.94E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.89E-06	9.89E-06	4.89E-06
1453	259402.42	4084318.92	0.00001318	1.91E-04	1.41E-04	1.41E-04	7.83E-05	2.00E-06	2.90E-05	2.19E-05	2.19E-05	1.21E-05	1.09E-06	1.57E-05	9.76E-06	9.76E-06	4.83E-06
1454	259412.26	4084340.66	0.000012979	1.88E-04	1.38E-04	1.38E-04	7.71E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.61E-06	9.61E-06	4.76E-06
1455	259422.09	4084362.4	0.000012756	1.84E-04	1.36E-04	1.36E-04	7.58E-05	1.94E-06	2.81E-05	2.12E-05	2.12E-05	1.17E-05	1.05E-06	1.52E-05	9.45E-06	9.45E-06	4.68E-06
1456	259431.93	4084384.14	0.000012516	1.81E-04	1.33E-04	1.33E-04	7.44E-05	1.90E-06	2.76E-05	2.08E-05	2.08E-05	1.15E-05	1.03E-06	1.49E-05	9.27E-06	9.27E-06	4.59E-06
1457	259441.76	4084405.88	0.000012311	1.78E-04	1.31E-04	1.31E-04	7.32E-05	1.87E-06	2.71E-05	2.05E-05	2.05E-05	1.13E-05	1.01E-06	1.47E-05	9.12E-06	9.12E-06	4.51E-06
1458	259451.6	4084427.62	0.000012053	1.74E-04	1.28E-04	1.28E-04	7.16E-05	1.83E-06	2.66E-05	2.01E-05	2.01E-05	1.10E-05	9.94E-07	1.44E-05	8.93E-06	8.93E-06	4.42E-06
1459	259461.43	4084449.36	0.00001179	1.71E-04	1.26E-04	1.26E-04	7.01E-05	1.79E-06	2.60E-05	1.96E-05	1.96E-05	1.08E-05	9.72E-07	1.41E-05	8.73E-06	8.73E-06	4.32E-06
1460	259471.26	4084471.1	0.000011526	1.67E-04	1.23E-04	1.23E-04	6.85E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.05E-05	9.50E-07	1.37E-05	8.54E-06	8.54E-06	4.23E-06
1461	259481.1	4084492.84	0.000011258	1.63E-04	1.20E-04	1.20E-04	6.69E-05	1.71E-06	2.48E-05	1.87E-05	1.87E-05	1.03E-05	9.28E-07	1.34E-05	8.34E-06	8.34E-06	4.13E-06
1462	259490.93	4084514.57	0.000010987	1.59E-04	1.17E-04	1.17E-04	6.53E-05	1.67E-06	2.42E-05	1.83E-05	1.83E-05	1.01E-05	9.06E-07	1.31E-05	8.14E-06	8.14E-06	4.03E-06
1463	259500.77	4084536.31	0.000010707	1.55E-04	1.14E-04	1.14E-04	6.36E-05	1.62E-06	2.36E-05	1.78E-05	1.78E-05	9.80E-06	8.83E-07	1.28E-05	7.93E-06	7.93E-06	3.92E-06
1464	259510.6	4084558.05	0.000010413	1.51E-04	1.11E-04	1.11E-04	6.19E-05	1.58E-06	2.29E-05	1.73E-05	1.73E-05	9.53E-06	8.58E-07	1.24E-05	7.71E-06	7.71E-06	3.82E-06
1465	259520.44	4084579.79	0.000010102	1.46E-04	1.08E-04	1.08E-04	6.00E-05	1.53E-06	2.23E-05	1.68E-05	1.68E-05	9.24E-06	8.33E-07	1.20E-05	7.48E-06	7.48E-06	3.70E-06
1466	259530.27	4084601.53	9.7742E-06	1.41E-04	1.04E-04	1.04E-04	5.81E-05	1.48E-06	2.15E-05	1.63E-05	1.63E-05	8.94E-06	8.06E-07	1.17E-05	7.24E-06	7.24E-06	3.58E-06
1467	259540.11	4084623.27	0.000009432	1.36E-04	1.01E-04	1.01E-04	5.61E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.63E-06	7.77E-07	1.12E-05	6.99E-06	6.99E-06	3.46E-06
1468	259549.94	4084645.01	9.0816E-06	1.31E-04	9.68E-05	9.68E-05	5.40E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.31E-06	7.49E-07	1.08E-05	6.73E-06	6.73E-06	3.33E-06
1469	259559.78	4084666.75	8.7332E-06	1.26E-04	9.31E-05	9.31E-05	5.19E-05	1.33E-06	1.92E-05	1.45E-05	1.45E-05	7.99E-06	7.20E-07	1.04E-05	6.47E-06	6.47E-06	3.20E-06
1470	259569.61	4084688.49	8.3972E-06	1.21E-04	8.95E-05	8.95E-05	4.99E-05	1.27E-06	1.85E-05	1.40E-05	1.40E-05	7.68E-06	6.92E-07	1.00E-05	6.22E-06	6.22E-06	3.08E-06
1471	259579.45	4084710.22	8.0816E-06	1.17E-04	8.62E-05	8.62E-05	4.80E-05	1.23E-06	1.78E-05	1.35E-05	1.35E-05	7.40E-06	6.66E-07	9.64E-06	5.98E-06	5.98E-06	2.96E-06
1472	259589.28	4084731.96	7.7907E-06	1.13E-04	8.31E-05	8.31E-05	4.63E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.13E-06	6.42E-07	9.29E-06	5.77E-06	5.77E-06	2.86E-06
1473	259599.12	4084753.7	7.5243E-06	1.09E-04	8.02E-05	8.02E-05	4.47E-05	1.14E-06	1.66E-05	1.25E-05	1.25E-05	6.89E-06	6.20E-07	8.97E-06	5.57E-06	5.57E-06	2.76E-06
1474	259608.95	4084775.44	7.2784E-06	1.05E-04	7.76E-05	7.76E-05	4.33E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.66E-06	6.00E-07	8.68E-06	5.39E-06	5.39E-06	2.67E-06
1475	259618.79	4084797.18	7.0489E-06	1.02E-04	7.51E-05	7.51E-05	4.19E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.45E-06	5.81E-07	8.40E-06	5.22E-06	5.22E-06	2.58E-06
1476	259628.62	4084818.92	6.8255E-06	9.87E-05	7.28E-05	7.28E-05	4.06E-05	1.04E-06	1.50E-05	1.14E-05	1.14E-05	6.25E-06	5.63E-07	8.14E-06	5.05E-06	5.05E-06	2.50E-06
1477	259638.46	4084840.66	6.6042E-06	9.55E-05	7.04E-05	7.04E-05	3.93E-05	1.00E-06	1.46E-05	1.10E-05	1.10E-05	6.04E-06	5.44E-07	7.87E-06	4.89E-06	4.89E-06	2.42E-06
1478	259648.29	4084862.4	6.3829E-06	9.23E-05	6.80E-05	6.80E-05	3.79E-05	9.69E-07	1.41E-05	1.06E-05	1.06E-05	5.84E-06	5.26E-07	7.61E-06	4.73E-06	4.73E-06	2.34E-06
1479	258305.28	4083623.16	2.5224E-06	3.65E-05	2.69E-05	2.69E-05	1.50E-05	3.83E-07	5.56E-06	4.20E-06	4.20E-06	2.31E-06	2.08E-07	3.01E-06	1.87E-06	1.87E-06	9.25E-07
1480	258280.95	4083624.16	0.000002463	3.56E-05	2.63E-05	2.63E-05	1.46E-05	3.74E-07	5.43E-06	4.10E-06	4.10E-06	2.25E-06	2.03E-07	2.94E-06	1.82E-06	1.82E-06	9.03E-07
1481	258256.62	4083625.16	2.4056E-06	3.48E-05	2.56E-05	2.56E-05	1.43E-05	3.65E-07	5.30E-06	4.00E-06	4.00E-06	2.20E-06	1.98E-07	2.87E-06	1.78E-06	1.78E-06	8.82E-07
1482	258232.29	4083626.16	2.3503E-06	3.40E-05	2.51E-05	2.51E-05	1.40E-05	3.57E-07	5.18E-06	3.91E-06	3.91E-06	2.15E-06	1.94E-07	2.80E-06	1.74E-06	1.74E-06	8.62E-07
1483	258207.95	4083627.16	0.000002295	3.32E-05	2.45E-05	2.45E-05	1.36E-05	3.48E-07	5.06E-06	3.82E-06	3.82E-06	2.10E-06	1.89E-07	2.74E-06	1.70E-06	1.70E-06	8.41E-07
1484	258183.62	4083628.16	2.2417E-06	3.24E-05	2.39E-05	2.39E-05	1.33E-05	3.40E-07	4.94E-06	3.73E-06	3.73E-06	2.05E-06	1.85E-07	2.67E-06	1.66E-06	1.66E-06	8.22E-07
1485	258159.29	4083629.16	2.1884E-06	3.17E-05	2.33E-05	2.33E-05	1.30E-05	3.32E-07	4.82E-06	3.64E-06	3.64E-06	2.00E-06	1.80E-07	2.61E-06	1.62E-06	1.62E-06	8.02E-07
1486	258134.96	4083630.16	2.1352E-06	3.09E-05	2.28E-05	2.28E-05	1.27E-05	3.24E-07	4.70E-06	3.55E-06	3.55E-06	1.95E-06	1.76E-07	2.55E-06	1.58E-06	1.58E-06	7.83E-07
1487	258110.63	4083631.16	2.0819E-06	3.01E-05	2.22E-05	2.22E-05	1.24E-05	3.16E-07	4.59E-06	3.47E-06	3.47E-06	1.91E-06	1.72E-07	2.48E-06	1.54E-06	1.54E-06	7.63E-07
1488	258086.29	4083632.16	2.0307E-06	2.94E-05	2.16E-05	2.16E-05	1.21E-05	3.08E-07	4.47E-06	3.38E-06	3.38E-06	1.86E-06	1.67E-07	2.42E-06	1.50E-06	1.50E-06	7.44E-07
1489	258061.96	4083633.16	1.9815E-06	2.87E-05	2.11E-05	2.11E-05	1.18E-05	3.01E-07	4.37E-06	3.30E-06	3.30E-06	1.81E-06	1.63E-07	2.36E-06	1.47E-06	1.47E-06	7.26E-07
1490	258037.63	4083634.16	1.9323E-06	2.79E-05	2.06E-05	2.06E-05	1.15E-05	2.93E-07	4.26E-06	3.22E-06	3.22E-06	1.77E-06	1.59E-07	2.30E-06	1.43E-06	1.43E-06	7.08E-07
1491	258013.3	4083635.16	1.8831E-06	2.72E-05	2.01E-05	2.01E-05	1.12E-05	2.86E-07	4.15E-06	3.13E-06	3.13E-06	1.72E-06	1.55E-07	2.25E-06	1.39E-06	1.39E-06	6.90E-07
1492	257988.97	4083636.16	0.000001838	2.66E-05	1.96E-05	1.96E-05	1.09E-05	2.79E-07	4.05E-06	3.06E-06	3.06E-06	1.68E-06	1.52E-07	2.19E-06	1.36E-06	1.36E-06	6.74E-07
1493	257964.64	4083637.16	0.000001793	2.59E-05	1.91E-05	1.91E-05	1.07E-05	2.72E-07	3.95E-06	2.98E-06	2.98E-06	1.64E-06	1.48E-07	2.14E-06	1.33E-06	1.33E-06	6.57E-07
1494	257940.3	4083638.16	0.000001752	2.53E-05	1.87E-05	1.87E-05	1.04E-05	2.66E-07	3.86E-06	2.92E-06	2.92E-06	1.60E-06	1.44E-07	2.09E-06	1.30E-06	1.30E-06	6.42E-07
1495	257915.97	4083639.16	0.000001711	2.47E-05	1.82E-05	1.82E-05	1.02E-05	2.60E-07	3.77E-06	2.85E-06	2.85E-06	1.57E-06	1.41E-07	2.04E-06	1.27E-06	1.27E-06	6.27E-07
1496	257891.64	4083640.16	1.6721E-06	2.42E-05	1.78E-05	1.78E-05	9.94E-06	2.54E-07	3.68E-06	2.78E-06	2.78E-06	1.53E-06	1.38E-07	1.99E-06	1.24E-06	1.24E-06	6.13E-07
1497	257867.31	4083641.16	1.6372E-06	2.37E-05	1.75E-05	1.75E-05	9.73E-06	2.48E-07	3.61E-06	2.73E-06	2.73E-06	1.50E-06	1.35E-07	1.95E-06	1.21E-06	1.21E-06	6.00E-07
1498	257842.98	4083642.16	1.6024E-06	2.32E-05	1.71E-05	1.71E-05	9.52E-06	2.43E-07	3.53E-06	2.67E-06	2.67E-06	1.47E-06	1.32E-07	1.91E-06	1.19E-06	1.19E-06	5.87E-07
1499	257818.64	4083643.16	1.5717E-06	2.27E-05	1.68E-05	1.68E-05	9.34E-06	2.39E-07	3.46E-06	2.62E-06	2.62E-06	1.44E-06	1.30E-07	1.87E-06	1.16E-06	1.16E-06	5.76E-07
1500	257794.31	4083644.16	0.000001543	2.23E-05	1.64E-05	1.64E-05	9.17E-06	2.34E-07	3.40E-06	2.57E-06	2.57E-06	1.41E-06	1.27E-07	1.84E-06	1.14E-06	1.14E-06	5.66E-07
1501	257769.98	4083645.16	1.5163E-06	2.19E-05	1.62E-05	1.62E-05	9.01E-06	2.30E-07	3.34E-06	2.52E-06	2.52E-06	1.39E-06	1.25E-07	1.81E-06	1.12E-06	1.12E-06	5.56E-07
1502	257745.65	4083646.16	1.4897E-06	2.15E-05	1.59E-05	1.59E-05	8.85E-06	2.26E-07	3.28E-06	2.48E-06	2.48E-06	1.36E-06	1.23E-07	1.78E-06	1.10E-06	1.10E-06	5.46E-07
1503	257721.32	4083647.16	1.4672E-06	2.12E-05	1.56E-05	1.56E-05	8.72E-06	2.23E-07	3.23E-06	2.44E-06	2.44E-06	1.34E-06	1.21E-07	1.75E-06	1.09E-06	1.09E-06	5.38E-07
1504	257696.99	4083648.16	1.4467E-06	2.09E-05	1.54E-05	1.54E-05	8.60E-06	2.20E-07	3.19E-06	2.41E-06	2.41E-06	1.32E-06	1.19E-07	1.72E-06	1.07E-06	1.07E-06	5.30E-07
1505	257672.65	4083649.17	1.4262E-06	2.06E-05	1.52E-05	1.52E-05	8.48E-06	2.16E-07	3.14E-06	2.37E-06	2.37E-06	1.31E-06	1.18E-07	1.70E-06	1.06E-06	1.06E-06	5.23E-07
1506	257648.32	4083650.17	1.4077E-06	2.04E-05	1.50E-05	1.50E-05	8.37E-06	2.14E-07	3.10E-06	2.34E-06	2.34E-06	1.29E-06	1.16E-07	1.68E-06	1.04E-06	1.04E-06	5.16E-07
1507	257623.99	4083651.17	1.3893E-06	2.01E-05	1.48E-05	1.48E-05	8.26E-06	2.11E-07	3.06E-06	2.31E-06	2.31E-06	1.27E-06	1.15E-07	1.66E-06	1.03E-06	1.03E-06	5.09E-07
1508	257599.66	4083652.17	1.3729E-06	1.99E-05	1.46E-05	1.46E-05	8.16E-06	2.08E-07	3.03E-06	2.29E-06	2.29E-06	1.26E-06	1.13E-07	1.64E-06	1.02E-06	1.02E-06	5.03E-07
1509	257575.33	4083653.17	1.3565E-06	1.96E-05	1.45E-05	1.45E-05	8.06E-06	2.06E-07	2.99E-06	2.26E-06	2.26E-06	1.24E-06	1.12E-07	1.62E-06	1.00E-06	1.00E-06	4.97E-07
1510	257550.99	4083654.17	1.3401E-06	1.94E-05	1.43E-05	1.43E-05	7.96E-06	2.03E-07	2.95E-06	2.23E-06	2.23E-06	1.23E-06	1.10E-07	1.60E-06	9.92E-07	9.92E-07	4.91E-07
1511	257526.66	4083655.17	1.3258E-06	1.92E-05	1.41E-05	1.41E-05	7.88E-06	2.01E-07	2.92E-06	2.21E-06	2.21E-06	1.21E-06	1.09E-07	1.58E-06	9.82E-07	9.82E-07	4.86E-07
1512	257502.33	4083656.17	1.3094E-06	1.89E-05	1.40E-05	1.40E-05	7.78E-06	1.99E-07	2.89E-06	2.18E-06	2.18E-06	1.20E-06	1.08E-07	1.56E-06	9.70E-07	9.70E-07	4.80E-07
1513	258319.66	4083431.69	1.9323E-06	2.79E-05	2.06E-05	2.06E-05	1.15E-05	2.93E-07	4.26E-06	3.22E-06	3.22E-06	1.77E-06	1.59E-07	2.30E-06	1.43E-06	1.43E-06	7.08E-07
1514	258342.25	4083440.05	1.9958E-06	2.89E-05	2.13E-05	2.13E-05	1.19E-05	3.03E-07	4.40E-06	3.32E-06	3.32E-06	1.83E-06	1.65E-07	2.38E-06	1.48E-06	1.48E-06	7.32E-07
1515	258364.84	4083448.42	2.0614E-06	2.98E-05	2.20E-05	2.20E-05	1.23E-05	3.13E-07	4.54E-06	3.43E-06	3.43E-06	1.89E-06	1.70E-07	2.46E-06	1.53E-06	1.53E-06	7.56E-07
1516	258387.43	4083456.78	2.1311E-06	3.08E-05	2.27E-05	2.27E-05	1.27E-05	3.23E-07	4.70E-06	3.55E-06	3.55E-06	1.95E-06	1.76E-07	2.54E-06	1.58E-06	1.58E-06	7.81E-07
1517	258410.02	4083465.15	2.2048E-06	3.19E-05	2.35E-05	2.35E-05	1.31E-05	3.35E-07	4.86E-06	3.67E-06	3.67E-06	2.02E-06	1.82E-07	2.63E-06	1.63E-06	1.63E-06	8.08E-07

1518	258432.61	4083473.51	2.2847E-06	3.30E-05	2.44E-05	2.44E-05	1.36E-05	3.47E-07	5.03E-06	3.80E-06	3.80E-06	2.09E-06	1.88E-07	2.72E-06	1.69E-06	1.69E-06	8.38E-07
1519	258455.2	4083481.87	2.3667E-06	3.42E-05	2.52E-05	2.52E-05	1.41E-05	3.59E-07	5.21E-06	3.94E-06	3.94E-06	2.17E-06	1.95E-07	2.82E-06	1.75E-06	1.75E-06	8.68E-07
1520	258477.79	4083490.24	2.4548E-06	3.55E-05	2.62E-05	2.62E-05	1.46E-05	3.73E-07	5.41E-06	4.09E-06	4.09E-06	2.25E-06	2.02E-07	2.93E-06	1.82E-06	1.82E-06	9.00E-07
1521	258500.38	4083498.6	0.000002547	3.68E-05	2.72E-05	2.72E-05	1.51E-05	3.87E-07	5.61E-06	4.24E-06	4.24E-06	2.33E-06	2.10E-07	3.04E-06	1.89E-06	1.89E-06	9.34E-07
1522	258522.97	4083506.97	2.6474E-06	3.83E-05	2.82E-05	2.82E-05	1.57E-05	4.02E-07	5.83E-06	4.41E-06	4.41E-06	2.42E-06	2.18E-07	3.16E-06	1.96E-06	1.96E-06	9.70E-07
1523	258545.57	4083515.33	0.000002754	3.98E-05	2.94E-05	2.94E-05	1.64E-05	4.18E-07	6.07E-06	4.58E-06	4.58E-06	2.52E-06	2.27E-07	3.28E-06	2.04E-06	2.04E-06	1.01E-06
1524	258568.16	4083523.69	2.8667E-06	4.15E-05	3.06E-05	3.06E-05	1.70E-05	4.35E-07	6.32E-06	4.77E-06	4.77E-06	2.62E-06	2.36E-07	3.42E-06	2.12E-06	2.12E-06	1.05E-06
1525	258590.75	4083532.06	2.9876E-06	4.32E-05	3.18E-05	3.18E-05	1.78E-05	4.53E-07	6.58E-06	4.97E-06	4.97E-06	2.73E-06	2.46E-07	3.56E-06	2.21E-06	2.21E-06	1.10E-06
1526	258613.34	4083540.42	3.1167E-06	4.51E-05	3.32E-05	3.32E-05	1.85E-05	4.73E-07	6.87E-06	5.19E-06	5.19E-06	2.85E-06	2.57E-07	3.72E-06	2.31E-06	2.31E-06	1.14E-06
1527	258635.93	4083548.79	0.000003254	4.71E-05	3.47E-05	3.47E-05	1.93E-05	4.94E-07	7.17E-06	5.42E-06	5.42E-06	2.98E-06	2.68E-07	3.88E-06	2.41E-06	2.41E-06	1.19E-06
1528	258658.52	4083557.15	3.4015E-06	4.92E-05	3.63E-05	3.63E-05	2.02E-05	5.16E-07	7.49E-06	5.66E-06	5.66E-06	3.11E-06	2.80E-07	4.06E-06	2.52E-06	2.52E-06	1.25E-06
1529	258681.11	4083565.51	3.5572E-06	5.15E-05	3.79E-05	3.79E-05	2.11E-05	5.40E-07	7.84E-06	5.92E-06	5.92E-06	3.26E-06	2.93E-07	4.24E-06	2.63E-06	2.63E-06	1.30E-06
1530	258703.7	4083573.88	3.7191E-06	5.38E-05	3.96E-05	3.96E-05	2.21E-05	5.64E-07	8.19E-06	6.19E-06	6.19E-06	3.40E-06	3.07E-07	4.43E-06	2.75E-06	2.75E-06	1.36E-06
1531	258726.29	4083582.24	3.8912E-06	5.63E-05	4.15E-05	4.15E-05	2.31E-05	5.91E-07	8.57E-06	6.48E-06	6.48E-06	3.56E-06	3.21E-07	4.64E-06	2.88E-06	2.88E-06	1.43E-06
1532	258748.88	4083590.61	4.0695E-06	5.89E-05	4.34E-05	4.34E-05	2.42E-05	6.18E-07	8.97E-06	6.77E-06	6.77E-06	3.72E-06	3.35E-07	4.85E-06	3.01E-06	3.01E-06	1.49E-06
1533	258771.48	4083598.97	4.2539E-06	6.15E-05	4.53E-05	4.53E-05	2.53E-05	6.46E-07	9.37E-06	7.08E-06	7.08E-06	3.89E-06	3.51E-07	5.07E-06	3.15E-06	3.15E-06	1.56E-06
1534	258794.07	4083607.33	4.4465E-06	6.43E-05	4.74E-05	4.74E-05	2.64E-05	6.75E-07	9.80E-06	7.40E-06	7.40E-06	4.07E-06	3.67E-07	5.30E-06	3.29E-06	3.29E-06	1.63E-06
1535	258816.66	4083615.7	4.6453E-06	6.72E-05	4.95E-05	4.95E-05	2.76E-05	7.05E-07	1.02E-05	7.73E-06	7.73E-06	4.25E-06	3.83E-07	5.54E-06	3.44E-06	3.44E-06	1.70E-06
1536	258839.25	4083624.06	4.8502E-06	7.02E-05	5.17E-05	5.17E-05	2.88E-05	7.36E-07	1.07E-05	8.07E-06	8.07E-06	4.44E-06	4.00E-07	5.78E-06	3.59E-06	3.59E-06	1.78E-06
1537	258861.84	4083632.43	5.0592E-06	7.32E-05	5.39E-05	5.39E-05	3.01E-05	7.68E-07	1.11E-05	8.42E-06	8.42E-06	4.63E-06	4.17E-07	6.03E-06	3.75E-06	3.75E-06	1.85E-06
1538	258884.43	4083640.79	5.2744E-06	7.63E-05	5.62E-05	5.62E-05	3.13E-05	8.00E-07	1.16E-05	8.78E-06	8.78E-06	4.83E-06	4.35E-07	6.29E-06	3.91E-06	3.91E-06	1.93E-06
1539	258907.02	4083649.15	5.4936E-06	7.95E-05	5.86E-05	5.86E-05	3.27E-05	8.34E-07	1.21E-05	9.14E-06	9.14E-06	5.03E-06	4.53E-07	6.55E-06	4.07E-06	4.07E-06	2.01E-06
1540	258929.61	4083657.52	0.000005719	8.27E-05	6.10E-05	6.10E-05	3.40E-05	8.68E-07	1.26E-05	9.52E-06	9.52E-06	5.23E-06	4.71E-07	6.82E-06	4.24E-06	4.24E-06	2.10E-06
1541	258952.2	4083665.88	5.9465E-06	8.60E-05	6.34E-05	6.34E-05	3.53E-05	9.02E-07	1.31E-05	9.90E-06	9.90E-06	5.44E-06	4.90E-07	7.09E-06	4.40E-06	4.40E-06	2.18E-06
1542	258974.79	4083674.25	0.000006178	8.94E-05	6.59E-05	6.59E-05	3.67E-05	9.38E-07	1.36E-05	1.03E-05	1.03E-05	5.65E-06	5.09E-07	7.37E-06	4.58E-06	4.58E-06	2.26E-06
1543	258997.38	4083682.61	6.4116E-06	9.27E-05	6.84E-05	6.84E-05	3.81E-05	9.73E-07	1.41E-05	1.07E-05	1.07E-05	5.87E-06	5.29E-07	7.64E-06	4.75E-06	4.75E-06	2.35E-06
1544	259019.98	4083690.97	6.6473E-06	9.61E-05	7.09E-05	7.09E-05	3.95E-05	1.01E-06	1.46E-05	1.11E-05	1.11E-05	6.08E-06	5.48E-07	7.92E-06	4.92E-06	4.92E-06	2.44E-06
1545	259042.57	4083699.34	6.8829E-06	9.96E-05	7.34E-05	7.34E-05	4.09E-05	1.04E-06	1.52E-05	1.15E-05	1.15E-05	6.30E-06	5.67E-07	8.21E-06	5.10E-06	5.10E-06	2.52E-06
1546	259065.16	4083707.7	7.1165E-06	1.03E-04	7.59E-05	7.59E-05	4.23E-05	1.08E-06	1.57E-05	1.18E-05	1.18E-05	6.51E-06	5.87E-07	8.48E-06	5.27E-06	5.27E-06	2.61E-06
1547	259087.75	4083716.07	7.3481E-06	1.06E-04	7.83E-05	7.83E-05	4.37E-05	1.12E-06	1.62E-05	1.22E-05	1.22E-05	6.72E-06	6.06E-07	8.76E-06	5.44E-06	5.44E-06	2.69E-06
1548	259110.34	4083724.43	7.5776E-06	1.10E-04	8.08E-05	8.08E-05	4.50E-05	1.15E-06	1.67E-05	1.26E-05	1.26E-05	6.93E-06	6.25E-07	9.03E-06	5.61E-06	5.61E-06	2.78E-06
1549	259132.93	4083732.79	7.8009E-06	1.13E-04	8.32E-05	8.32E-05	4.64E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.14E-06	6.43E-07	9.30E-06	5.78E-06	5.78E-06	2.86E-06
1550	259155.52	4083741.16	8.0161E-06	1.16E-04	8.55E-05	8.55E-05	4.76E-05	1.22E-06	1.77E-05	1.33E-05	1.33E-05	7.34E-06	6.61E-07	9.56E-06	5.94E-06	5.94E-06	2.94E-06
1551	259178.11	4083749.52	0.000008223	1.19E-04	8.77E-05	8.77E-05	4.89E-05	1.25E-06	1.81E-05	1.37E-05	1.37E-05	7.52E-06	6.78E-07	9.80E-06	6.09E-06	6.09E-06	3.01E-06
1552	259200.7	4083757.89	8.4197E-06	1.22E-04	8.98E-05	8.98E-05	5.00E-05	1.28E-06	1.86E-05	1.40E-05	1.40E-05	7.70E-06	6.94E-07	1.00E-05	6.24E-06	6.24E-06	3.09E-06
1553	259223.29	4083766.25	8.6021E-06	1.24E-04	9.17E-05	9.17E-05	5.11E-05	1.31E-06	1.90E-05	1.43E-05	1.43E-05	7.87E-06	7.09E-07	1.03E-05	6.37E-06	6.37E-06	3.15E-06
1554	259245.88	4083774.61	8.7722E-06	1.27E-04	9.35E-05	9.35E-05	5.21E-05	1.33E-06	1.93E-05	1.46E-05	1.46E-05	8.03E-06	7.23E-07	1.05E-05	6.50E-06	6.50E-06	3.22E-06
1555	259268.48	4083782.98	8.9238E-06	1.29E-04	9.51E-05	9.51E-05	5.30E-05	1.35E-06	1.97E-05	1.49E-05	1.49E-05	8.17E-06	7.36E-07	1.06E-05	6.61E-06	6.61E-06	3.27E-06
1556	259291.07	4083791.34	9.0631E-06	1.31E-04	9.66E-05	9.66E-05	5.39E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.29E-06	7.47E-07	1.08E-05	6.71E-06	6.71E-06	3.32E-06
1557	259313.66	4083799.71	0.000009184	1.33E-04	9.79E-05	9.79E-05	5.46E-05	1.39E-06	2.02E-05	1.53E-05	1.53E-05	8.40E-06	7.57E-07	1.09E-05	6.80E-06	6.80E-06	3.37E-06
1558	259336.25	4083808.07	9.2885E-06	1.34E-04	9.90E-05	9.90E-05	5.52E-05	1.41E-06	2.05E-05	1.55E-05	1.55E-05	8.50E-06	7.66E-07	1.11E-05	6.88E-06	6.88E-06	3.40E-06
1559	259358.84	4083816.43	9.3787E-06	1.36E-04	1.00E-04	1.00E-04	5.57E-05	1.42E-06	2.07E-05	1.56E-05	1.56E-05	8.58E-06	7.73E-07	1.12E-05	6.95E-06	6.95E-06	3.44E-06
1560	259391.36	4083846.75	9.6881E-06	1.40E-04	1.03E-04	1.03E-04	5.76E-05	1.47E-06	2.13E-05	1.61E-05	1.61E-05	8.87E-06	7.99E-07	1.16E-05	7.17E-06	7.17E-06	3.55E-06
1561	259401.29	4083868.69	9.9176E-06	1.43E-04	1.06E-04	1.06E-04	5.89E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.08E-06	8.18E-07	1.18E-05	7.34E-06	7.34E-06	3.64E-06
1562	259411.22	4083890.64	0.000010135	1.47E-04	1.08E-04	1.08E-04	6.02E-05	1.54E-06	2.23E-05	1.69E-05	1.69E-05	9.27E-06	8.35E-07	1.21E-05	7.51E-06	7.51E-06	3.72E-06
1563	259421.15	4083912.59	0.000010336	1.49E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.46E-06	8.52E-07	1.23E-05	7.65E-06	7.65E-06	3.79E-06
1564	259431.08	4083934.54	0.00001052	1.52E-04	1.12E-04	1.12E-04	6.25E-05	1.60E-06	2.32E-05	1.75E-05	1.75E-05	9.63E-06	8.67E-07	1.25E-05	7.79E-06	7.79E-06	3.86E-06
1565	259441.01	4083956.49	0.000010688	1.55E-04	1.14E-04	1.14E-04	6.35E-05	1.62E-06	2.36E-05	1.78E-05	1.78E-05	9.78E-06	8.81E-07	1.27E-05	7.92E-06	7.92E-06	3.92E-06
1566	259450.94	4083978.43	0.000010834	1.57E-04	1.15E-04	1.15E-04	6.44E-05	1.64E-06	2.39E-05	1.80E-05	1.80E-05	9.91E-06	8.93E-07	1.29E-05	8.02E-06	8.02E-06	3.97E-06
1567	259460.87	4084000.38	0.000010959	1.59E-04	1.17E-04	1.17E-04	6.51E-05	1.66E-06	2.41E-05	1.82E-05	1.82E-05	1.00E-05	9.03E-07	1.31E-05	8.12E-06	8.12E-06	4.02E-06
1568	259470.79	4084022.33	0.000011061	1.60E-04	1.18E-04	1.18E-04	6.57E-05	1.68E-06	2.44E-05	1.84E-05	1.84E-05	1.01E-05	9.12E-07	1.32E-05	8.19E-06	8.19E-06	4.05E-06
1569	259480.72	4084044.28	0.000011139	1.61E-04	1.19E-04	1.19E-04	6.62E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.18E-07	1.33E-05	8.25E-06	8.25E-06	4.08E-06
1570	259490.65	4084066.23	0.00001119	1.62E-04	1.19E-04	1.19E-04	6.65E-05	1.70E-06	2.47E-05	1.86E-05	1.86E-05	1.02E-05	9.22E-07	1.33E-05	8.29E-06	8.29E-06	4.10E-06
1571	259500.58	4084088.17	0.000011215	1.62E-04	1.20E-04	1.20E-04	6.67E-05	1.70E-06	2.47E-05	1.87E-05	1.87E-05	1.03E-05	9.24E-07	1.34E-05	8.31E-06	8.31E-06	4.11E-06
1572	259510.51	4084110.12	0.000011213	1.62E-04	1.20E-04	1.20E-04	6.66E-05	1.70E-06	2.47E-05	1.87E-05	1.87E-05	1.03E-05	9.24E-07	1.34E-05	8.30E-06	8.30E-06	4.11E-06
1573	259520.44	4084132.07	0.000011184	1.62E-04	1.19E-04	1.19E-04	6.65E-05	1.70E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.22E-07	1.33E-05	8.28E-06	8.28E-06	4.10E-06
1574	259530.37	4084154.02	0.000011127	1.61E-04	1.19E-04	1.19E-04	6.61E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.17E-07	1.33E-05	8.24E-06	8.24E-06	4.08E-06
1575	259540.3	4084175.97	0.000011045	1.60E-04	1.18E-04	1.18E-04	6.56E-05	1.68E-06	2.43E-05	1.84E-05	1.84E-05	1.01E-05	9.10E-07	1.32E-05	8.18E-06	8.18E-06	4.05E-06
1576	259550.23	4084197.91	0.000010936	1.58E-04	1.17E-04	1.17E-04	6.50E-05	1.66E-06	2.41E-05	1.82E-05	1.82E-05	1.00E-05	9.01E-07	1.30E-05	8.10E-06	8.10E-06	4.01E-06
1577	259560.16	4084219.86	0.000010807	1.56E-04	1.15E-04	1.15E-04	6.42E-05	1.64E-06	2.38E-05	1.80E-05	1.80E-05	9.89E-06	8.91E-07	1.29E-05	8.00E-06	8.00E-06	3.96E-06
1578	259570.09	4084241.81	0.000010657	1.54E-04	1.14E-04	1.14E-04	6.33E-05	1.62E-06	2.35E-05	1.77E-05	1.77E-05	9.75E-06	8.78E-07	1.27E-05	7.89E-06	7.89E-06	3.91E-06
1579	259580.02	4084263.76	0.000010489	1.52E-04	1.12E-04	1.12E-04	6.23E-05	1.59E-06	2.31E-05	1.75E-05	1.75E-05	9.60E-06	8.65E-07	1.25E-05	7.77E-06	7.77E-06	3.85E-06
1580	259589.95	4084285.71	0.000010313	1.49E-04	1.10E-04	1.10E-04	6.13E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.44E-06	8.50E-07	1.23E-05	7.64E-06	7.64E-06	3.78E-06
1581	259599.88	4084307.65	0.000010127	1.46E-04	1.08E-04	1.08E-04	6.02E-05	1.54E-06	2.23E-05	1.69E-05	1.69E-05	9.27E-06	8.35E-07	1.21E-05	7.50E-06	7.50E-06	3.71E-06
1582	259609.81	4084329.6	9.9381E-06	1.44E-04	1.06E-04	1.06E-04	5.91E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.09E-06	8.19E-07	1.18E-05	7.36E-06	7.36E-06	3.64E-06
1583	259619.74	4084351.55	9.7516E-06	1.41E-04	1.04E-04	1.04E-04	5.80E-05	1.48E-06	2.15E-05	1.62E-05	1.62E-05	8.92E-06	8.04E-07	1.16E-05	7.22E-06	7.22E-06	3.57E-06
1584	259629.67	4084373.5	9.5672E-06	1.38E-04	1.02E-04	1.02E-04	5.69E-05	1.45E-06	2.11E-05	1.59E-05	1.59E-05	8.75E-06	7.89E-07	1.14E-05	7.09E-06	7.09E-06	3.51E-06
1585	259639.59	4084395.45	0.000009389	1.36E-04	1.00E-04	1.00E-04	5.58E-05	1.42E-06	2.07E-05	1.56E-05	1.56E-05	8.59E-06	7.74E-07	1.12E-05	6.95E-06	6.95E-06	3.44E-06
1586	259649.52	4084417.39	9.2455E-06	1.34E-04	9.86E-05	9.86E-05	5.49E-05	1.40E-06	2.04E-05	1.54E-05	1.54E-05	8.46E-06	7.62E-07	1.10E-05	6.85E-06	6.85E-06	3.39E-06
1587	259659.45	4084439.34	9.0693E-06	1.31E-04	9.67E-05	9.67E-05	5.39E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.30E-06	7.48E-07	1.08E-05	6.72E-06	6.72E-06	3.32E-06
1588	259669.38	4084461.29	0.000008891	1.29E-04	9.48E-05	9.48E-05	5.28E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.14E-06	7.33E-07	1.06E-05	6.58E-06	6.58E-06	3.26E-06
1589	259679.31	4084483.24	8.6984E-06	1.26E-04	9.27E-05	9.27E-05	5.17E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.96E-06	7.17E-07	1.04E-05	6.44E-06	6.44E-06	3.19E-06
1590	259689.24	4084505.19	8.4955E-06	1.23E-04	9.06E-05	9.06E-05	5.05E-05	1.29E-06	1.87E-05	1.41E-05	1.41E-05	7.77E-06	7.00E-07	1.01E-05	6.29E-06	6.29E-06	3.11E-06
1591	259699.17	4084527.13	8.2763E-06	1.20E-04	8.82E-05	8.82E-05	4.92E-05	1.26E-06	1.82E-05	1.38E-05	1.38E-05	7.57E-06	6.82E-07	9.87E-06	6.13E-06	6.13E-06	3.03E-06
1592	259709.1	4084549.08	8.0386E-06	1.16E-04	8.57E-05	8.57E-05	4.78E-05	1.22E-06	1.77E-05	1.34E-05	1.34E-05	7.36E-06	6.63E-07	9.58E-06	5.95E-06	5.95E-06	2.95E-06
1593	259719.03	4084571.03	7.7866E-06	1.13E-04	8.30E-05	8.30E-05	4.63E-05	1.18E-06	1.72E-05	1.30E-05	1.30E-05	7.13E-06	6.42E-07	9.28E-06	5.77E-06	5.77E-06	2.85E-06
1594	259728.96	4084592.98	7.5243E-06	1.09E-04	8.02E-05	8.02E-05	4.47E-05	1.14E-06	1.66E-05	1.25E-05	1.25E-05	6.89E-06	6.20E-07	8.97E-06	5.57E-06	5.57E-06	2.76E-06
1595	259738.89	4084614.93	0.000007262	1.05E-04	7.74E-05	7.74E-05	4.32E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.65E-06	5.99E-07	8.66E-06	5.38E-06	5.38E-06	2.66E-06
1596	259748.82	4084636.87	7.0038E-06	1.01E-04	7.47E-05	7.47E-05	4.16E-05	1.06E-06	1.54E-05	1.17E-05	1.17E-05	6.41E-06	5.77E-07	8.35E-06	5.19E-06	5.19E-06	2.57E-06
1597	259758.75	4084658.82	0.000006762	9.78E-05	7.21E-05	7.21E-05	4.02E-05	1.03E-06	1.49E-05	1.13E-05	1.13E-05	6.19E-06	5.57E-07	8.06E-06	5.01E-06	5.01E-06	2.48E-06
1598	259768.68	4084680.77	6.5387E-06	9.46E-05	6.97E-05	6.97E-05	3.89E-05	9.92E-07	1.44E-05	1.09E-05	1.09E-05	5.98E-06	5.39E-07	7.80E-06	4.84E-06	4.84E-06	2.40E-06
1599	259778.61	4084702.72	6.3379E-06	9.17E-05	6.76E-05	6.76E-05	3.77E-05	9.62E-07	1.40E-05	1.05E-05	1.05E-05	5.80E-06	5.22E-07	7.56E-06	4.69E-06	4.69E-06	2.32E-06
1600	259788.54	4084724.67	6.1575E-06	8.91E-05	6.56E-05	6.56E-05	3.66E-05	9.35E-07	1.36E-05	1.02E-05	1.02E-05	5.63E-06	5.08E-07	7.34E-06	4.56E-06	4.56E-06	2.26E-06
1601	259798.47	4084746.61	5.9916E-06	8.67E-05	6.39E-05	6.39E-05	3.56E-05	9.09E-07	1.32E-05	9.97E-06	9.97E-06	5.48E-06	4.94E-07	7.14E-06	4.44E-06	4.44E-06	2.20E-06
1602	259808.39	4084768.56	5.8358E-06	8.44E-05	6.22E-05	6.22E-05	3.47E-05	8.86E-07	1.29E-05	9.71E-06	9.71E-06	5.34E-06	4.81E-07	6.96E-06	4.32E-06	4.32E-06	2.14E-06
1603	259818.32	4084790.51	5.6842E-06	8.22E-05	6.06E-05	6.06E-05	3.38E-05	8.63E-07	1.25E-05	9.46E-06	9.46E-06	5.20E-06	4.69E-07	6.78E-06	4.21E-06	4.21E-06	2.08E-06
1604	259828.25	4084812.46	5.5305E-06	8.00E-05	5.90E-05	5.90E-05	3.29E-05	8.39E-07	1.22E-05	9.21E-06	9.21E-06	5.06E-06	4.56E-07	6.59E-06	4.10E-06	4.10E-06	2.03E-06
1605	259838.18	4084834.41	5.3727E-06	7.77E-05	5.73E-05	5.73E-05	3.19E-05	8.15E-07	1.18E-05	8.94E-06	8.94E-06	4.92E-06	4.43E-07	6.41E-06	3.98E-06	3.98E-06	1.97E-06
1606	259848.11	4084856.35	5.2088E-06	7.53E-05	5.55E-05	5.55E-05	3.10E-05	7.91E-07	1.15E-05	8.67E-06	8.67E-06	4.77E-06	4.29E-07	6.21E-06	3.86E-06	3.86E-06	1.91E-06
1607	258297.07	4083423.33	1.8749E-06	2.71E-05	2.00E-05	2.00E-05	1.11E-05	2.85E-07	4.13E-06	3.12E-06	3.12E-06	1.72E-06	1.55E-07	2.24E-06	1.39E-06	1.39E-06	6.87E-07
1608	258272.73	4083424.33	0.000001838	2.66E-05	1.96E-05	1.96E-05	1.09E-05	2.79E-07	4.05E-06	3.06E-06	3.06E-06	1.68E-06	1.52E-07	2.19E-06	1.36E-06	1.36E-06	6.74E-07
1609	258248.4	4083425.33	1.8032E-06	2.61E-05	1.92E-05	1.92E-05	1.07E-05	2.74E-07	3.97E-06	3.00E-06	3.00E-06	1.65E-06	1.49E-07	2.15E-06	1.34E-06	1.34E-06	6.61E-07
1610	258224.07	4083426.33	1.7704E-06	2.56E-05	1.89E-05	1.89E-05	1.05E-05	2.69E-07	3.90E-06	2.95E-06	2.95E-06	1.62E-06	1.46E-07	2.11E-06	1.31E-06	1.31E-06	6.49E-07
1611	258199.74	4083427.33	1.7376E-06	2.51E-05	1.85E-05	1.85E-05	1.03E-05	2.64E-07	3.83E-06	2.89E-06	2.89E-06	1.59E-06	1.43E-07	2.07E-06	1.29E-06	1.29E-06	6.37E-07
1612	258175.41	4083428.33	1.7069E-06	2.47E-05	1.82E-05	1.82E-05	1.01E-05	2.59E-07	3.76E-06	2.84E-06	2.84E-06	1.56E-06	1.41E-07	2.04E-06	1.26E-06	1.26E-06	6.26E-07
1613	258151.07	4083429.33	1.6762E-06	2.42E-05	1.79E-05	1.79E-05	9.96E-06	2.54E-07	3.69E-06	2.79E-06	2.79E-06	1.53E-06	1.38E-07	2.00E-06	1.24E-06	1.24E-06	6.14E-07
1614	258126.74	4083430.33	1.6454E-06	2.38E-05	1.75E-05	1.75E-05	9.78E-06	2.50E-07	3.63E-06	2.74E-06	2.74E-06	1.51E-06	1.36E-07	1.96E-06	1.22E-06	1.22E-06	6.03E-07
1615	258102.41	4083431.33	1.6147E-06	2.34E-05	1.72E-05	1.72E-05	9.60E-06	2.45E-07	3.56E-06	2.69E-06	2.69E-06	1.48E-06	1.33E-07	1.93E-06	1.20E-06	1.20E-06	5.92E-07
1616	258078.08	4083432.33	0.000001584	2.29E-05	1.69E-05	1.69E-05	9.41E-06	2.40E-07	3.49E-06	2.64E-06	2.64E-06	1.45E-06	1.31E-07	1.89E-06	1.17E-06	1.17E-06	5.81E-07
1617	258053.75	4083433.33	1.5553E-06	2.25E-05	1.66E-05	1.66E-05	9.24E-06	2.36E-07	3.43E-06	2.59E-06	2.59E-06	1.42E-06	1.28E-07	1.85E-06	1.15E-06	1.15E-06	5.70E-07
1618	258029.42	4083434.33	1.5245E-06	2.21E-05	1.63E-05	1.63E-05	9.06E-06	2.31E-07	3.36E-06	2.54E-06	2.54E-06	1.40E-06	1.26E-07	1.82E-06	1.13E-06	1.13E-06	5.59E-07
1619	258005.08	4083435.33	1.4958E-06	2.16E-05	1.59E-05	1.59E-05	8.89E-06	2.27E-07	3.30E-06	2.49E-06	2.49E-06	1.37E-06	1.23E-07	1.78E-06	1.11E-06	1.11E-06	5.48E-07
1620	257980.75	4083436.33	1.4651E-06	2.12E-05	1.56E-05	1.56E-05	8.71E-06	2.22E-07	3.23E-06	2.44E-06	2.44E-06	1.34E-06	1.21E-07	1.75E-06	1.09E-06	1.09E-06	5.37E-07
1621	257956.42	4083437.33	1.4364E-06	2.08E-05	1.53E-05	1.53E-05	8.54E-06	2.18E-07	3.17E-06	2.39E-06	2.39E-06	1.31E-06	1.18E-07	1.71E-06	1.06E-06	1.06E-06	5.27E-07
1622	257932.09	4083438.33	1.4098E-06	2.04E-05	1.50E-05	1.50E-05	8.38E-06	2.14E-07	3.11E-06	2.35E-06	2.35E-06	1.29E-06	1.16E-07	1.68E-06	1.04E-06	1.04E-06	5.17E-07
1623	257907.76	4083439.33	1.3811E-06	2.00E-05	1.47E-05	1.47E-05	8.21E-06	2.10E-07	3.04E-06	2.30E-06	2.30E-06	1.26E-06	1.14E-07	1.65E-06	1.02E-06	1.02E-06	5.06E-07
1624	257883.42	4083440.33	1.3545E-06	1.96E-05	1.44E-05	1.44E-05	8.05E-06	2.06E-07	2.98E-06	2.25E-06	2.25E-06	1.24E-06	1.12E-07	1.61E-06	1.00E-06	1.00E-06	4.97E-07
1625	257859.09	4083441.33	1.3299E-06	1.92E-05	1.42E-05	1.42E-05	7.90E-06	2.02E-07	2.93E-06	2.21E-06	2.21E-06	1.22E-06	1.10E-07	1.59E-06	9.85E-07	9.85E-07	4.87E-07
1626	257834.76	4083442.33	1.3053E-06	1.89E-05	1.39E-05	1.39E-05	7.76E-06	1.98E-07	2.88E-06	2.17E-06	2.17E-06	1.19E-06	1.08E-07	1.56E-06	9.67E-07	9.67E-07	4.78E-07
1627	257810.43	4083443.33	1.2827E-06	1.86E-05	1.37E-05	1.37E-05	7.62E-06	1.95E-07	2.83E-06	2.14E-06	2.14E-06	1.17E-06	1.06E-07	1.53E-06	9.50E-07	9.50E-07	4.70E-07
1628	257786.1	4083444.33	1.2602E-06	1.82E-05	1.34E-05	1.34E-05	7.49E-06	1.91E-07	2.78E-06	2.10E-06	2.10E-06	1.15E-06	1.04E-07	1.50E-06	9.33E-07	9.33E-07	4.62E-07
1629	257761.77	4083445.33	1.2397E-06	1.79E-05	1.32E-05	1.32E-05	7.37E-06	1.88E-07	2.73E-06	2.06E-06	2.06E-06	1.13E-06	1.02E-07	1.48E-06	9.18E-07	9.18E-07	4.54E-07
1630	257737.43	4083446.33	1.2192E-06	1.76E-05	1.30E-05	1.30E-05	7.25E-06	1.85E-07	2.69E-06	2.03E-06	2.03E-06	1.12E-06	1.00E-07	1.45E-06	9.03E-07	9.03E-07	4.47E-07
1631	257713.1	4083447.33	1.2008E-06	1.74E-05	1.28E-05	1.28E-05	7.14E-06	1.82E-07	2.65E-06	2.00E-06	2.00E-06	1.10E-06	9.90E-08	1.43E-06	8.89E-07	8.89E-07	4.40E-07
1632	257688.77	4083448.33	1.1823E-06	1.71E-05	1.26E-05	1.26E-05	7.03E-06	1.79E-07	2.61E-06	1.97E-06	1.97E-06	1.08E-06	9.75E-08	1.41E-06	8.76E-07	8.76E-07	4.33E-07
1633	257664.44	4083449.33	1.1659E-06	1.69E-05	1.24E-05	1.24E-05	6.93E-06	1.77E-07	2.57E-06	1.94E-06	1.94E-06	1.07E-06	9.61E-08	1.39E-06	8.63E-07	8.63E-07	4.27E-07
1634	257640.11	4083450.33	1.1495E-06	1.66E-05	1.23E-05	1.23E-05	6.83E-06	1.74E-07	2.53E-06	1.91E-06	1.91E-06	1.05E-06	9.48E-08	1.37E-06	8.51E-07	8.51E-07	4.21E-07

1635	257615.77	4083451.33	1.1331E-06	1.64E-05	1.21E-05	1.21E-05	6.73E-06	1.72E-07	2.50E-06	1.89E-06	1.89E-06	1.04E-06	9.34E-08	1.35E-06	8.39E-07	8.39E-07	4.15E-07
1636	257591.44	4083452.33	1.1188E-06	1.62E-05	1.19E-05	1.19E-05	6.65E-06	1.70E-07	2.47E-06	1.86E-06	1.86E-06	1.02E-06	9.22E-08	1.33E-06	8.29E-07	8.29E-07	4.10E-07
1637	257567.11	4083453.34	1.1045E-06	1.60E-05	1.18E-05	1.18E-05	6.56E-06	1.68E-07	2.43E-06	1.84E-06	1.84E-06	1.01E-06	9.10E-08	1.32E-06	8.18E-07	8.18E-07	4.05E-07
1638	257542.78	4083454.34	1.0901E-06	1.58E-05	1.16E-05	1.16E-05	6.48E-06	1.65E-07	2.40E-06	1.81E-06	1.81E-06	9.98E-07	8.99E-08	1.30E-06	8.07E-07	8.07E-07	4.00E-07
1639	257518.45	4083455.34	1.0758E-06	1.56E-05	1.15E-05	1.15E-05	6.39E-06	1.63E-07	2.37E-06	1.79E-06	1.79E-06	9.84E-07	8.87E-08	1.28E-06	7.97E-07	7.97E-07	3.94E-07
1640	257494.12	4083456.34	1.0635E-06	1.54E-05	1.13E-05	1.13E-05	6.32E-06	1.61E-07	2.34E-06	1.77E-06	1.77E-06	9.73E-07	8.77E-08	1.27E-06	7.88E-07	7.88E-07	3.90E-07
1641	257530.75	4084956	0.000081318	1.18E-03	8.67E-04	8.67E-04	4.83E-04	1.23E-05	1.79E-04	1.35E-04	1.35E-04	7.44E-05	6.70E-06	9.69E-05	6.02E-05	6.02E-05	2.98E-05
1642	257532.4	4085000.56	0.00021539	3.12E-03	2.30E-03	2.30E-03	1.28E-03	3.27E-05	4.75E-04	3.59E-04	3.59E-04	1.97E-04	1.78E-05	2.57E-04	1.60E-04	1.60E-04	7.90E-05
1643	257534.05	4085045.12	0.00034234	4.95E-03	3.65E-03	3.65E-03	2.03E-03	5.20E-05	7.54E-04	5.70E-04	5.70E-04	3.13E-04	2.82E-05	4.08E-04	2.54E-04	2.54E-04	1.25E-04
1644	257534.87	4085067.4	0.00038273	5.54E-03	4.08E-03	4.08E-03	2.27E-03	5.81E-05	8.43E-04	6.37E-04	6.37E-04	3.50E-04	3.15E-05	4.56E-04	2.83E-04	2.83E-04	1.40E-04
1645	257536.53	4085111.96	0.00043037	6.22E-03	4.59E-03	4.59E-03	2.56E-03	6.53E-05	9.48E-04	7.16E-04	7.16E-04	3.94E-04	3.55E-05	5.13E-04	3.19E-04	3.19E-04	1.58E-04
1646	257538.18	4085156.53	0.00041627	6.02E-03	4.44E-03	4.44E-03	2.47E-03	6.32E-05	9.17E-04	6.93E-04	6.93E-04	3.81E-04	3.43E-05	4.96E-04	3.08E-04	3.08E-04	1.53E-04
1647	257512.39	4084939.02	0.000050875	7.36E-04	5.42E-04	5.42E-04	3.02E-04	7.72E-06	1.12E-04	8.47E-05	8.47E-05	4.66E-05	4.19E-06	6.07E-05	3.77E-05	3.77E-05	1.86E-05
1648	257506.59	4084979.2	0.00008531	1.23E-03	9.09E-04	9.09E-04	5.07E-04	1.29E-05	1.88E-04	1.42E-04	1.42E-04	7.81E-05	7.03E-06	1.02E-04	6.32E-05	6.32E-05	3.13E-05
1649	257508.24	4085023.76	0.0001628	2.35E-03	1.74E-03	1.74E-03	9.68E-04	2.47E-05	3.59E-04	2.71E-04	2.71E-04	1.49E-04	1.34E-05	1.94E-04	1.21E-04	1.21E-04	5.97E-05
1650	257509.89	4085068.33	0.00023216	3.36E-03	2.47E-03	2.47E-03	1.38E-03	3.52E-05	5.12E-04	3.86E-04	3.86E-04	2.12E-04	1.91E-05	2.77E-04	1.72E-04	1.72E-04	8.51E-05
1651	257511.54	4085112.89	0.00027443	3.97E-03	2.93E-03	2.93E-03	1.63E-03	4.16E-05	6.05E-04	4.57E-04	4.57E-04	2.51E-04	2.26E-05	3.27E-04	2.03E-04	2.03E-04	1.01E-04
1652	257513.19	4085157.45	0.0002817	4.07E-03	3.00E-03	3.00E-03	1.67E-03	4.28E-05	6.21E-04	4.69E-04	4.69E-04	2.58E-04	2.32E-05	3.36E-04	2.09E-04	2.09E-04	1.03E-04
1653	257487.41	4084939.95	0.000041965	6.07E-04	4.47E-04	4.47E-04	2.49E-04	6.37E-06	9.25E-05	6.99E-05	6.99E-05	3.84E-05	3.46E-06	5.00E-05	3.11E-05	3.11E-05	1.54E-05
1654	257517.99	4084896.14	0.000033624	4.86E-04	3.58E-04	3.58E-04	2.00E-04	5.10E-06	7.41E-05	5.60E-05	5.60E-05	3.08E-05	2.77E-06	4.01E-05	2.49E-05	2.49E-05	1.23E-05
1655	257481.61	4084980.13	0.000062967	9.11E-04	6.71E-04	6.71E-04	3.74E-04	9.56E-06	1.39E-04	1.05E-04	1.05E-04	5.76E-05	5.19E-06	7.51E-05	4.66E-05	4.66E-05	2.31E-05
1656	257483.26	4085024.69	0.00010695	1.55E-03	1.14E-03	1.14E-03	6.36E-04	1.62E-05	2.36E-04	1.78E-04	1.78E-04	9.79E-05	8.82E-06	1.28E-04	7.92E-05	7.92E-05	3.92E-05
1657	257484.91	4085069.25	0.00015593	2.26E-03	1.66E-03	1.66E-03	9.27E-04	2.37E-05	3.44E-04	2.60E-04	2.60E-04	1.43E-04	1.29E-05	1.86E-04	1.15E-04	1.15E-04	5.72E-05
1658	257486.56	4085113.81	0.00019134	2.77E-03	2.04E-03	2.04E-03	1.14E-03	2.90E-05	4.22E-04	3.18E-04	3.18E-04	1.75E-04	1.58E-05	2.28E-04	1.42E-04	1.42E-04	7.01E-05
1659	257488.21	4085158.38	0.00020535	2.97E-03	2.19E-03	2.19E-03	1.22E-03	3.12E-05	4.52E-04	3.42E-04	3.42E-04	1.88E-04	1.69E-05	2.45E-04	1.52E-04	1.52E-04	7.53E-05
1660	257462.43	4084940.87	0.000035591	5.15E-04	3.79E-04	3.79E-04	2.12E-04	5.40E-06	7.84E-05	5.92E-05	5.92E-05	3.26E-05	2.93E-06	4.24E-05	2.64E-05	2.64E-05	1.30E-05
1661	257475.68	4084905.07	0.000028441	4.11E-04	3.03E-04	3.03E-04	1.69E-04	4.32E-06	6.27E-05	4.73E-05	4.73E-05	2.60E-05	2.34E-06	3.39E-05	2.11E-05	2.11E-05	1.04E-05
1662	257499.64	4084879.17	0.000026358	3.81E-04	2.81E-04	2.81E-04	1.57E-04	4.00E-06	5.81E-05	4.39E-05	4.39E-05	2.41E-05	2.17E-06	3.14E-05	1.95E-05	1.95E-05	9.66E-06
1663	257456.62	4084981.05	0.000049963	7.23E-04	5.33E-04	5.33E-04	2.97E-04	7.58E-06	1.10E-04	8.32E-05	8.32E-05	4.57E-05	4.12E-06	5.96E-05	3.70E-05	3.70E-05	1.83E-05
1664	257458.28	4085025.62	0.000077503	1.12E-03	8.26E-04	8.26E-04	4.61E-04	1.18E-05	1.71E-04	1.29E-04	1.29E-04	7.09E-05	6.39E-06	9.24E-05	5.74E-05	5.74E-05	2.84E-05
1665	257459.1	4085047.9	0.000094648	1.37E-03	1.01E-03	1.01E-03	5.63E-04	1.44E-05	2.09E-04	1.58E-04	1.58E-04	8.66E-05	7.80E-06	1.13E-04	7.01E-05	7.01E-05	3.47E-05
1666	257460.75	4085092.46	0.00012762	1.85E-03	1.36E-03	1.36E-03	7.58E-04	1.94E-05	2.81E-04	2.12E-04	2.12E-04	1.17E-04	1.05E-05	1.52E-04	9.45E-05	9.45E-05	4.68E-05
1667	257462.4	4085137.02	0.00015041	2.18E-03	1.60E-03	1.60E-03	8.94E-04	2.28E-05	3.31E-04	2.50E-04	2.50E-04	1.38E-04	1.24E-05	1.79E-04	1.11E-04	1.11E-04	5.51E-05
1668	257412.46	4084942.72	0.000027077	3.92E-04	2.89E-04	2.89E-04	1.61E-04	4.11E-06	5.97E-05	4.51E-05	4.51E-05	2.48E-05	2.23E-06	3.23E-05	2.01E-05	2.01E-05	9.93E-06
1669	257425.72	4084906.93	0.000022536	3.26E-04	2.40E-04	2.40E-04	1.34E-04	3.42E-06	4.97E-05	3.75E-05	3.75E-05	2.06E-05	1.86E-06	2.69E-05	1.67E-05	1.67E-05	8.26E-06
1670	257438.97	4084871.13	0.000019087	2.76E-04	2.03E-04	2.03E-04	1.13E-04	2.90E-06	4.21E-05	3.18E-05	3.18E-05	1.75E-05	1.57E-06	2.28E-05	1.41E-05	1.41E-05	7.00E-06
1671	257462.93	4084845.22	0.000017989	2.60E-04	1.92E-04	1.92E-04	1.07E-04	2.73E-06	3.96E-05	2.99E-05	2.99E-05	1.65E-05	1.48E-06	2.14E-05	1.33E-05	1.33E-05	6.59E-06
1672	257497.59	4084829.21	0.000018661	2.70E-04	1.99E-04	1.99E-04	1.11E-04	2.83E-06	4.11E-05	3.11E-05	3.11E-05	1.71E-05	1.54E-06	2.22E-05	1.38E-05	1.38E-05	6.84E-06
1673	257406.66	4084982.91	0.000035167	5.09E-04	3.75E-04	3.75E-04	2.09E-04	5.34E-06	7.75E-05	5.85E-05	5.85E-05	3.22E-05	2.90E-06	4.19E-05	2.60E-05	2.60E-05	1.29E-05
1674	257408.31	4085027.47	0.000048602	7.03E-04	5.18E-04	5.18E-04	2.89E-04	7.38E-06	1.07E-04	8.09E-05	8.09E-05	4.45E-05	4.01E-06	5.79E-05	3.60E-05	3.60E-05	1.78E-05
1675	257409.96	4085072.03	0.000066141	9.57E-04	7.05E-04	7.05E-04	3.93E-04	1.00E-05	1.46E-04	1.10E-04	1.10E-04	6.05E-05	5.45E-06	7.89E-05	4.90E-05	4.90E-05	2.42E-05
1676	257411.61	4085116.59	0.000084369	1.22E-03	8.99E-04	8.99E-04	5.01E-04	1.28E-05	1.86E-04	1.40E-04	1.40E-04	7.72E-05	6.95E-06	1.01E-04	6.25E-05	6.25E-05	3.09E-05
1677	257413.26	4085161.15	0.00009782	1.41E-03	1.04E-03	1.04E-03	5.81E-04	1.48E-05	2.16E-04	1.63E-04	1.63E-04	8.95E-05	8.06E-06	1.17E-04	7.24E-05	7.24E-05	3.59E-05
1678	257363.44	4084942.02	0.000021399	3.10E-04	2.28E-04	2.28E-04	1.27E-04	3.25E-06	4.72E-05	3.56E-05	3.56E-05	1.96E-05	1.76E-06	2.55E-05	1.58E-05	1.58E-05	7.84E-06
1679	257378.59	4084901.11	0.000017895	2.59E-04	1.91E-04	1.91E-04	1.06E-04	2.72E-06	3.94E-05	2.98E-05	2.98E-05	1.64E-05	1.48E-06	2.13E-05	1.33E-05	1.33E-05	6.56E-06
1680	257393.74	4084860.19	0.000015237	2.20E-04	1.62E-04	1.62E-04	9.06E-05	2.31E-06	3.36E-05	2.54E-05	2.54E-05	1.39E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.59E-06
1681	257428.7	4084810.13	0.000013364	1.93E-04	1.42E-04	1.42E-04	7.94E-05	2.03E-06	2.94E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.90E-06	9.90E-06	4.90E-06
1682	257468.3	4084791.83	0.000013776	1.99E-04	1.47E-04	1.47E-04	8.19E-05	2.09E-06	3.04E-05	2.29E-05	2.29E-05	1.26E-05	1.14E-06	1.64E-05	1.02E-05	1.02E-05	5.05E-06
1683	257507.91	4084773.54	0.000014239	2.06E-04	1.52E-04	1.52E-04	8.46E-05	2.16E-06	3.14E-05	2.37E-05	2.37E-05	1.30E-05	1.17E-06	1.70E-05	1.05E-05	1.05E-05	5.22E-06
1684	257356.69	4084984.76	0.000026903	3.89E-04	2.87E-04	2.87E-04	1.60E-04	4.08E-06	5.93E-05	4.48E-05	4.48E-05	2.46E-05	2.22E-06	3.21E-05	1.99E-05	1.99E-05	9.86E-06
1685	257358.34	4085029.32	0.000034857	5.04E-04	3.72E-04	3.72E-04	2.07E-04	5.29E-06	7.68E-05	5.80E-05	5.80E-05	3.19E-05	2.87E-06	4.16E-05	2.58E-05	2.58E-05	1.28E-05
1686	257359.99	4085073.88	0.000044584	6.45E-04	4.75E-04	4.75E-04	2.65E-04	6.77E-06	9.82E-05	7.42E-05	7.42E-05	4.08E-05	3.68E-06	5.32E-05	3.30E-05	3.30E-05	1.63E-05
1687	257361.65	4085118.44	0.000055748	8.06E-04	5.94E-04	5.94E-04	3.31E-04	8.46E-06	1.23E-04	9.28E-05	9.28E-05	5.10E-05	4.60E-06	6.65E-05	4.13E-05	4.13E-05	2.04E-05
1688	257363.3	4085163.01	0.000065913	9.53E-04	7.03E-04	7.03E-04	3.92E-04	1.00E-05	1.45E-04	1.10E-04	1.10E-04	6.03E-05	5.43E-06	7.86E-05	4.88E-05	4.88E-05	2.42E-05
1689	257313.27	4084944.44	0.000017778	2.57E-04	1.90E-04	1.90E-04	1.06E-04	2.70E-06	3.92E-05	2.96E-05	2.96E-05	1.63E-05	1.47E-06	2.12E-05	1.32E-05	1.32E-05	6.52E-06
1690	257328	4084904.66	0.000015208	2.20E-04	1.62E-04	1.62E-04	9.04E-05	2.31E-06	3.35E-05	2.53E-05	2.53E-05	1.39E-05	1.25E-06	1.81E-05	1.13E-05	1.13E-05	5.58E-06
1691	257342.73	4084864.88	0.000013202	1.91E-04	1.41E-04	1.41E-04	7.85E-05	2.00E-06	2.91E-05	2.20E-05	2.20E-05	1.21E-05	1.09E-06	1.57E-05	9.78E-06	9.78E-06	4.84E-06
1692	257357.46	4084825.11	0.000011618	1.68E-04	1.24E-04	1.24E-04	6.91E-05	1.76E-06	2.56E-05	1.93E-05	1.93E-05	1.06E-05	9.58E-07	1.39E-05	8.60E-06	8.60E-06	4.26E-06
1693	257391.44	4084776.44	0.000010418	1.51E-04	1.11E-04	1.11E-04	6.19E-05	1.58E-06	2.30E-05	1.73E-05	1.73E-05	9.53E-06	8.59E-07	1.24E-05	7.72E-06	7.72E-06	3.82E-06
1694	257429.94	4084758.65	0.000010661	1.54E-04	1.14E-04	1.14E-04	6.34E-05	1.62E-06	2.35E-05	1.77E-05	1.77E-05	9.76E-06	8.79E-07	1.27E-05	7.90E-06	7.90E-06	3.91E-06
1695	257468.45	4084740.86	0.000010895	1.58E-04	1.16E-04	1.16E-04	6.48E-05	1.65E-06	2.40E-05	1.81E-05	1.81E-05	9.97E-06	8.98E-07	1.30E-05	8.07E-06	8.07E-06	3.99E-06
1696	257506.96	4084723.07	0.000011184	1.62E-04	1.19E-04	1.19E-04	6.65E-05	1.70E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.22E-07	1.33E-05	8.28E-06	8.28E-06	4.10E-06
1697	257306.73	4084986.61	0.000021659	3.13E-04	2.31E-04	2.31E-04	1.29E-04	3.29E-06	4.77E-05	3.61E-05	3.61E-05	1.98E-05	1.79E-06	2.58E-05	1.60E-05	1.60E-05	7.94E-06
1698	257307.55	4085008.89	0.000024233	3.50E-04	2.58E-04	2.58E-04	1.44E-04	3.68E-06	5.34E-05	4.03E-05	4.03E-05	2.22E-05	2.00E-06	2.89E-05	1.79E-05	1.79E-05	8.88E-06
1699	257309.2	4085053.45	0.000029792	4.31E-04	3.18E-04	3.18E-04	1.77E-04	4.52E-06	6.56E-05	4.96E-05	4.96E-05	2.73E-05	2.46E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
1700	257310.85	4085098.01	0.000036203	5.24E-04	3.86E-04	3.86E-04	2.15E-04	5.49E-06	7.98E-05	6.03E-05	6.03E-05	3.31E-05	2.98E-06	4.32E-05	2.68E-05	2.68E-05	1.33E-05
1701	257312.51	4085142.58	0.000043328	6.27E-04	4.62E-04	4.62E-04	2.58E-04	6.58E-06	9.55E-05	7.21E-05	7.21E-05	3.96E-05	3.57E-06	5.17E-05	3.21E-05	3.21E-05	1.59E-05
1702	257263.17	4084946.65	0.000015161	2.19E-04	1.62E-04	1.62E-04	9.01E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.81E-05	1.12E-05	1.12E-05	5.56E-06
1703	257277.63	4084907.6	0.000013155	1.90E-04	1.40E-04	1.40E-04	7.82E-05	2.00E-06	2.90E-05	2.19E-05	2.19E-05	1.20E-05	1.08E-06	1.57E-05	9.74E-06	9.74E-06	4.82E-06
1704	257292.09	4084868.54	0.000011563	1.67E-04	1.23E-04	1.23E-04	6.87E-05	1.75E-06	2.55E-05	1.92E-05	1.92E-05	1.06E-05	9.53E-07	1.38E-05	8.56E-06	8.56E-06	4.24E-06
1705	257306.55	4084829.49	0.000010299	1.49E-04	1.10E-04	1.10E-04	6.12E-05	1.56E-06	2.27E-05	1.71E-05	1.71E-05	9.42E-06	8.49E-07	1.23E-05	7.63E-06	7.63E-06	3.78E-06
1706	257321.01	4084790.44	9.2537E-06	1.34E-04	9.86E-05	9.86E-05	5.50E-05	1.40E-06	2.04E-05	1.54E-05	1.54E-05	8.47E-06	7.63E-07	1.10E-05	6.85E-06	6.85E-06	3.39E-06
1707	257354.38	4084742.65	8.4197E-06	1.22E-04	8.98E-05	8.98E-05	5.00E-05	1.28E-06	1.86E-05	1.40E-05	1.40E-05	7.70E-06	6.94E-07	1.00E-05	6.24E-06	6.24E-06	3.09E-06
1708	257392.18	4084725.19	8.5734E-06	1.24E-04	9.14E-05	9.14E-05	5.10E-05	1.30E-06	1.89E-05	1.43E-05	1.43E-05	7.85E-06	7.07E-07	1.02E-05	6.35E-06	6.35E-06	3.14E-06
1709	257429.99	4084707.72	8.7148E-06	1.26E-04	9.29E-05	9.29E-05	5.18E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.97E-06	7.18E-07	1.04E-05	6.45E-06	6.45E-06	3.19E-06
1710	257467.8	4084690.25	8.8644E-06	1.28E-04	9.45E-05	9.45E-05	5.27E-05	1.35E-06	1.95E-05	1.48E-05	1.48E-05	8.11E-06	7.31E-07	1.06E-05	6.56E-06	6.56E-06	3.25E-06
1711	257505.6	4084672.79	9.0672E-06	1.31E-04	9.67E-05	9.67E-05	5.39E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.30E-06	7.47E-07	1.08E-05	6.71E-06	6.71E-06	3.32E-06
1712	257256.76	4084988.46	0.000018061	2.61E-04	1.93E-04	1.93E-04	1.07E-04	2.74E-06	3.98E-05	3.01E-05	3.01E-05	1.65E-05	1.49E-06	2.15E-05	1.34E-05	1.34E-05	6.62E-06
1713	257258.41	4085033.02	0.000021811	3.15E-04	2.33E-04	2.33E-04	1.30E-04	3.31E-06	4.81E-05	3.63E-05	3.63E-05	2.00E-05	1.80E-06	2.60E-05	1.62E-05	1.62E-05	8.00E-06
1714	257260.06	4085077.58	0.000025751	3.72E-04	2.75E-04	2.75E-04	1.53E-04	3.91E-06	5.67E-05	4.29E-05	4.29E-05	2.36E-05	2.12E-06	3.07E-05	1.91E-05	1.91E-05	9.44E-06
1715	257261.71	4085122.15	0.000030091	4.35E-04	3.21E-04	3.21E-04	1.79E-04	4.57E-06	6.63E-05	5.01E-05	5.01E-05	2.75E-05	2.48E-06	3.59E-05	2.23E-05	2.23E-05	1.10E-05
1716	257263.37	4085166.71	0.000034947	5.05E-04	3.73E-04	3.73E-04	2.08E-04	5.30E-06	7.70E-05	5.82E-05	5.82E-05	3.20E-05	2.88E-06	4.17E-05	2.59E-05	2.59E-05	1.28E-05
1717	257163.58	4084949.42	0.000011616	1.68E-04	1.24E-04	1.24E-04	6.90E-05	1.76E-06	2.56E-05	1.93E-05	1.93E-05	1.06E-05	9.57E-07	1.38E-05	8.60E-06	8.60E-06	4.26E-06
1718	257178.73	4084908.51	0.000010198	1.48E-04	1.09E-04	1.09E-04	6.06E-05	1.55E-06	2.25E-05	1.70E-05	1.70E-05	9.33E-06	8.41E-07	1.22E-05	7.55E-06	7.55E-06	3.74E-06
1719	257193.88	4084867.6	9.0283E-06	1.31E-04	9.62E-05	9.62E-05	5.37E-05	1.37E-06	1.99E-05	1.50E-05	1.50E-05	8.26E-06	7.44E-07	1.08E-05	6.69E-06	6.69E-06	3.31E-06
1720	257209.03	4084826.68	8.1103E-06	1.17E-04	8.65E-05	8.65E-05	4.82E-05	1.23E-06	1.79E-05	1.35E-05	1.35E-05	7.42E-06	6.69E-07	9.67E-06	6.01E-06	6.01E-06	2.97E-06
1721	257224.18	4084785.77	7.3603E-06	1.06E-04	7.85E-05	7.85E-05	4.37E-05	1.12E-06	1.62E-05	1.23E-05	1.23E-05	6.74E-06	6.07E-07	8.78E-06	5.45E-06	5.45E-06	2.70E-06
1722	257239.33	4084744.86	6.7251E-06	9.73E-05	7.17E-05	7.17E-05	4.00E-05	1.02E-06	1.48E-05	1.12E-05	1.12E-05	6.15E-06	5.54E-07	8.02E-06	4.98E-06	4.98E-06	2.47E-06
1723	257254.48	4084703.95	6.1473E-06	8.89E-05	6.55E-05	6.55E-05	3.65E-05	9.33E-07	1.35E-05	1.02E-05	1.02E-05	5.63E-06	5.07E-07	7.33E-06	4.55E-06	4.55E-06	2.25E-06
1724	257281.86	4084674.34	5.9116E-06	8.55E-05	6.30E-05	6.30E-05	3.51E-05	8.97E-07	1.30E-05	9.84E-06	9.84E-06	5.41E-06	4.87E-07	7.05E-06	4.38E-06	4.38E-06	2.17E-06
1725	257321.47	4084656.04	5.9916E-06	8.67E-05	6.39E-05	6.39E-05	3.56E-05	9.09E-07	1.32E-05	9.97E-06	9.97E-06	5.48E-06	4.94E-07	7.14E-06	4.44E-06	4.44E-06	2.20E-06
1726	257361.07	4084637.75	6.0715E-06	8.78E-05	6.47E-05	6.47E-05	3.61E-05	9.21E-07	1.34E-05	1.01E-05	1.01E-05	5.56E-06	5.00E-07	7.24E-06	4.50E-06	4.50E-06	2.23E-06
1727	257400.68	4084619.45	6.1473E-06	8.89E-05	6.55E-05	6.55E-05	3.65E-05	9.33E-07	1.35E-05	1.02E-05	1.02E-05	5.63E-06	5.07E-07	7.33E-06	4.55E-06	4.55E-06	2.25E-06
1728	257440.28	4084601.15	6.2292E-06	9.01E-05	6.64E-05	6.64E-05	3.70E-05	9.45E-07	1.37E-05	1.04E-05	1.04E-05	5.70E-06	5.13E-07	7.43E-06	4.61E-06	4.61E-06	2.28E-06
1729	257479.89	4084582.85	0.000006344	9.18E-05	6.76E-05	6.76E-05	3.77E-05	9.63E-07	1.40E-05	1.06E-05	1.06E-05	5.81E-06	5.23E-07	7.56E-06	4.70E-06	4.70E-06	2.33E-06
1730	257156.83	4084992.16	0.000013463	1.95E-04	1.44E-04	1.44E-04	8.00E-05	2.04E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.60E-05	9.97E-06	9.97E-06	4.94E-06
1731	257158.48	4085036.72	0.000015645	2.26E-04	1.67E-04	1.67E-04	9.30E-05	2.37E-06	3.45E-05	2.60E-05	2.60E-05	1.43E-05	1.29E-06	1.87E-05	1.16E-05	1.16E-05	5.73E-06
1732	257160.13	4085081.29	0.0000177	2.56E-04	1.89E-04	1.89E-04	1.05E-04	2.69E-06	3.90E-05	2.95E-05	2.95E-05	1.62E-05	1.46E-06	2.11E-05	1.31E-05	1.31E-05	6.49E-06
1733	257161.78	4085125.85	0.000019673	2.85E-04	2.10E-04	2.10E-04	1.17E-04	2.99E-06	4.33E-05	3.27E-05	3.27E-05	1.80E-05	1.62E-06	2.35E-05	1.46E-05	1.46E-05	7.21E-06
1734	257162.61	4085148.13	0.00002072	3.00E-04	2.21E-04	2.21E-04	1.23E-04	3.14E-06	4.57E-05	3.45E-05	3.45E-05	1.90E-05	1.71E-06	2.47E-05	1.53E-05	1.53E-05	7.60E-06
1735	257063.44	4084953.69	9.4258E-06	1.36E-04	1.00E-04	1.00E-04	5.60E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.63E-06	7.77E-07	1.12E-05	6.98E-06	6.98E-06	3.46E-06
1736	257078.17	4084913.92	8.4259E-06	1.22E-04	8.98E-05	8.98E-05	5.01E-05	1.28E-06	1.86E-05	1.40E-05	1.40E-05	7.71E-06	6.95E-07	1.00E-05	6.24E-06	6.24E-06	3.09E-06
1737	257092.9	4084874.14	0.000007555	1.09E-04	8.05E-05	8.05E-05	4.49E-05	1.15E-06	1.66E-05	1.26E-05	1.26E-05	6.91E-06	6.23E-07	9.01E-06	5.59E-06	5.59E-06	2.77E-06
1738	257107.63	4084834.36	6.8337E-06	9.88E-05	7.29E-05	7.29E-05	4.06E-05	1.04E-06	1.51E-05	1.14E-05	1.14E-05	6.25E-06	5.63E-07	8.15E-06	5.06E-06	5.06E-06	2.51E-06
1739	257122.36	4084794.59	6.2456E-06	9.03E-05	6.66E-05	6.66E-05	3.71E-05	9.48E-07	1.38E-05	1.04E-05	1.04E-05	5.72E-06	5.15E-07	7.45E-06	4.63E-06	4.63E-06	2.29E-06
1740	257137.09	4084754.81	5.7498E-06	8.32E-05	6.13E-05	6.13E-05	3.42E-05	8.73E-07	1.27E-05	9.57E-06	9.57E-06	5.26E-06	4.74E-07	6.85E-06	4.26E-06	4.26E-06	2.11E-06
1741	257151.82	4084715.03	5.3276E-06	7.71E-05	5.68E-05	5.68E-05	3.17E-05	8.09E-07	1.17E-05	8.87E-06	8.87E-06	4.88E-06	4.39E-07	6.35E-06	3.95E-06	3.95E-06	1.95E-06
1742	257166.55	4084675.26	4.9486E-06	7.16E-05	5.28E-05	5.28E-05	2.94E-05	7.51E-07	1.09E-05	8.24E-06	8.24E-06	4.53E-06	4.08E-07	5.90E-06	3.66E-06	3.66E-06	1.81E-06
1743	257181.27	4084635.48	4.5879E-06	6.64E-05	4.89E-05	4.89E-05	2.73E-05	6.96E-07	1.01E-05	7.64E-06	7.64E-06	4.20E-06	3.78E-07	5.47E-06	3.40E-06	3.40E-06	1.68E-06
1744	257207.89	4084606.7	4.4363E-06	6.42E-05	4.73E-05	4.73E-05	2.64E-05	6.73E-07	9.78E-06	7.38E-06	7.38E-06	4.06E-06	3.66E-07	5.29E-06	3.29E-06	3.29E-06	1.63E-06
1745	257246.4	4084588.91	4.4814E-06	6.48E-05	4.78E-05	4.78E-05	2.66E-05	6.80E-07	9.87E-06	7.46E-06	7.46E-06	4.10E-06	3.69E-07	5.34E-06	3.32E-06	3.32E-06	1.64E-06
1746	257284.9	4084571.12	4.5387E-06	6.56E-05	4.84E-05	4.84E-05	2.70E-05	6.89E-07	1.00E-05	7.55E-06	7.55E-06	4.15E-06	3.74E-07	5.41E-06	3.36E-06	3.36E-06	1.66E-06
1747	257323.41	4084553.33	4.6023E-06	6.66E-05	4.91E-05	4.91E-05	2.74E-05	6.98E-07	1.01E-05	7.66E-06	7.66E-06	4.21E-06	3.79E-07	5.49E-06	3.41E-06	3.41E-06	1.69E-06
1748	257361.92	4084535.54	4.6596E-06	6.74E-05	4.97E-05	4.97E-05	2.77E-05	7.07E-07	1.03E-05	7.76E-06	7.76E-06	4.26E-06	3.84E-07	5.56E-06	3.45E-06	3.45E-06	1.71E-06
1749	257400.42	4084517.75	4.7109E-06	6.81E-05	5.02E-05	5.02E-05	2.80E-05	7.15E-07	1.04E-05	7.84E-06	7.84E-06	4.31E-06	3.88E-07	5.62E-06	3.49E-06	3.49E-06	1.73E-06
1750	257438.93	4084499.96	4.7641E-06	6.89E-05	5.08E-05	5.08E-05	2.83E-05	7.23E-07	1.05E-05	7.93E-06	7.93E-06	4.36E-06	3.93E-07	5.68E-06	3.53E-06	3.53E-06	1.75E-06
1751	257477.43	4084482.18	4.8277E-06	6.98E-05	5.15E-05	5.15E-05	2.87E-05	7.33E-07	1.06E-05	8.04E-06	8.04E-06	4.42E-06	3.98E-07	5.76E-06	3.58E-06	3.58E-06	1.77E-06

1752	257056.9	4084995.86	0.000010684	1.55E-04	1.14E-04	1.14E-04	6.35E-05	1.62E-06	2.35E-05	1.78E-05	1.78E-05	9.78E-06	8.81E-07	1.27E-05	7.91E-06	7.91E-06	3.92E-06
1753	257057.72	4085018.15	0.000011418	1.65E-04	1.22E-04	1.22E-04	6.79E-05	1.73E-06	2.52E-05	1.90E-05	1.90E-05	1.04E-05	9.41E-07	1.36E-05	8.46E-06	8.46E-06	4.19E-06
1754	257059.38	4085062.71	0.00001276	1.85E-04	1.36E-04	1.36E-04	7.58E-05	1.94E-06	2.81E-05	2.12E-05	2.12E-05	1.17E-05	1.05E-06	1.52E-05	9.45E-06	9.45E-06	4.68E-06
1755	257061.03	4085107.27	0.000013901	2.01E-04	1.48E-04	1.48E-04	8.26E-05	2.11E-06	3.06E-05	2.31E-05	2.31E-05	1.27E-05	1.15E-06	1.66E-05	1.03E-05	1.03E-05	5.10E-06
1756	257062.68	4085151.83	0.000014932	2.16E-04	1.59E-04	1.59E-04	8.87E-05	2.27E-06	3.29E-05	2.49E-05	2.49E-05	1.37E-05	1.23E-06	1.78E-05	1.11E-05	1.11E-05	5.47E-06
1757	256963.72	4084956.83	7.9054E-06	1.14E-04	8.43E-05	8.43E-05	4.70E-05	1.20E-06	1.74E-05	1.32E-05	1.32E-05	7.23E-06	6.52E-07	9.43E-06	5.85E-06	5.85E-06	2.90E-06
1758	256978.87	4084915.92	7.1186E-06	1.03E-04	7.59E-05	7.59E-05	4.23E-05	1.08E-06	1.57E-05	1.18E-05	1.18E-05	6.51E-06	5.87E-07	8.49E-06	5.27E-06	5.27E-06	2.61E-06
1759	256994.02	4084875	6.4219E-06	9.29E-05	6.85E-05	6.85E-05	3.82E-05	9.75E-07	1.42E-05	1.07E-05	1.07E-05	5.88E-06	5.29E-07	7.66E-06	4.76E-06	4.76E-06	2.35E-06
1760	257009.17	4084834.09	5.8502E-06	8.46E-05	6.24E-05	6.24E-05	3.48E-05	8.88E-07	1.29E-05	9.74E-06	9.74E-06	5.35E-06	4.82E-07	6.97E-06	4.33E-06	4.33E-06	2.14E-06
1761	257024.32	4084793.18	5.3645E-06	7.76E-05	5.72E-05	5.72E-05	3.19E-05	8.14E-07	1.18E-05	8.93E-06	8.93E-06	4.91E-06	4.42E-07	6.40E-06	3.97E-06	3.97E-06	1.97E-06
1762	257039.47	4084752.26	4.9383E-06	7.14E-05	5.26E-05	5.26E-05	2.94E-05	7.49E-07	1.09E-05	8.22E-06	8.22E-06	4.52E-06	4.07E-07	5.89E-06	3.66E-06	3.66E-06	1.81E-06
1763	257054.62	4084711.35	4.5736E-06	6.62E-05	4.88E-05	4.88E-05	2.72E-05	6.94E-07	1.01E-05	7.61E-06	7.61E-06	4.19E-06	3.77E-07	5.45E-06	3.39E-06	3.39E-06	1.68E-06
1764	257069.77	4084670.44	4.2621E-06	6.16E-05	4.54E-05	4.54E-05	2.53E-05	6.47E-07	9.39E-06	7.09E-06	7.09E-06	3.90E-06	3.51E-07	5.08E-06	3.16E-06	3.16E-06	1.56E-06
1765	257084.92	4084629.52	3.9875E-06	5.77E-05	4.25E-05	4.25E-05	2.37E-05	6.05E-07	8.79E-06	6.64E-06	6.64E-06	3.65E-06	3.29E-07	4.75E-06	2.95E-06	2.95E-06	1.46E-06
1766	257100.07	4084588.61	3.7294E-06	5.39E-05	3.98E-05	3.98E-05	2.22E-05	5.66E-07	8.22E-06	6.21E-06	6.21E-06	3.41E-06	3.07E-07	4.45E-06	2.76E-06	2.76E-06	1.37E-06
1767	257135.02	4084538.55	3.4999E-06	5.06E-05	3.73E-05	3.73E-05	2.08E-05	5.31E-07	7.71E-06	5.83E-06	5.83E-06	3.20E-06	2.88E-07	4.17E-06	2.59E-06	2.59E-06	1.28E-06
1768	257174.63	4084520.25	3.5347E-06	5.11E-05	3.77E-05	3.77E-05	2.10E-05	5.36E-07	7.79E-06	5.88E-06	5.88E-06	3.23E-06	2.91E-07	4.21E-06	2.62E-06	2.62E-06	1.30E-06
1769	257214.24	4084501.95	3.5859E-06	5.19E-05	3.82E-05	3.82E-05	2.13E-05	5.44E-07	7.90E-06	5.97E-06	5.97E-06	3.28E-06	2.96E-07	4.28E-06	2.66E-06	2.66E-06	1.31E-06
1770	257253.84	4084483.66	3.6453E-06	5.27E-05	3.89E-05	3.89E-05	2.17E-05	5.53E-07	8.03E-06	6.07E-06	6.07E-06	3.34E-06	3.00E-07	4.35E-06	2.70E-06	2.70E-06	1.34E-06
1771	257293.45	4084465.36	3.7007E-06	5.35E-05	3.95E-05	3.95E-05	2.20E-05	5.62E-07	8.15E-06	6.16E-06	6.16E-06	3.39E-06	3.05E-07	4.41E-06	2.74E-06	2.74E-06	1.36E-06
1772	257333.05	4084447.06	3.7416E-06	5.41E-05	3.99E-05	3.99E-05	2.22E-05	5.68E-07	8.24E-06	6.23E-06	6.23E-06	3.42E-06	3.08E-07	4.46E-06	2.77E-06	2.77E-06	1.37E-06
1773	257372.66	4084428.77	3.7642E-06	5.44E-05	4.01E-05	4.01E-05	2.24E-05	5.71E-07	8.29E-06	6.27E-06	6.27E-06	3.44E-06	3.10E-07	4.49E-06	2.79E-06	2.79E-06	1.38E-06
1774	257412.27	4084410.47	3.7744E-06	5.46E-05	4.02E-05	4.02E-05	2.24E-05	5.73E-07	8.32E-06	6.28E-06	6.28E-06	3.45E-06	3.11E-07	4.50E-06	2.80E-06	2.80E-06	1.38E-06
1775	257451.87	4084392.17	3.7847E-06	5.47E-05	4.03E-05	4.03E-05	2.25E-05	5.74E-07	8.34E-06	6.30E-06	6.30E-06	3.46E-06	3.12E-07	4.51E-06	2.80E-06	2.80E-06	1.39E-06
1776	257491.48	4084373.87	0.000003799	5.49E-05	4.05E-05	4.05E-05	2.26E-05	5.77E-07	8.37E-06	6.32E-06	6.32E-06	3.48E-06	3.13E-07	4.53E-06	2.81E-06	2.81E-06	1.39E-06
1777	256956.97	4084999.57	8.8459E-06	1.28E-04	9.43E-05	9.43E-05	5.26E-05	1.34E-06	1.95E-05	1.47E-05	1.47E-05	8.09E-06	7.29E-07	1.05E-05	6.55E-06	6.55E-06	3.24E-06
1778	256958.62	4085044.13	0.00000985	1.42E-04	1.05E-04	1.05E-04	5.85E-05	1.49E-06	2.17E-05	1.64E-05	1.64E-05	9.01E-06	8.12E-07	1.17E-05	7.29E-06	7.29E-06	3.61E-06
1779	256960.27	4085088.69	0.00001067	1.54E-04	1.14E-04	1.14E-04	6.34E-05	1.62E-06	2.35E-05	1.78E-05	1.78E-05	9.76E-06	8.80E-07	1.27E-05	7.90E-06	7.90E-06	3.91E-06
1780	256961.92	4085133.25	0.000011313	1.64E-04	1.21E-04	1.21E-04	6.72E-05	1.72E-06	2.49E-05	1.88E-05	1.88E-05	1.04E-05	9.33E-07	1.35E-05	8.38E-06	8.38E-06	4.15E-06
1781	256963.57	4085177.82	0.000011911	1.72E-04	1.27E-04	1.27E-04	7.08E-05	1.81E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.82E-07	1.42E-05	8.82E-06	8.82E-06	4.37E-06
1782	256863.94	4084960.11	6.8112E-06	9.85E-05	7.26E-05	7.26E-05	4.05E-05	1.03E-06	1.50E-05	1.13E-05	1.13E-05	6.23E-06	5.61E-07	8.12E-06	5.04E-06	5.04E-06	2.50E-06
1783	256879.41	4084918.34	6.1657E-06	8.92E-05	6.57E-05	6.57E-05	3.66E-05	9.36E-07	1.36E-05	1.03E-05	1.03E-05	5.64E-06	5.08E-07	7.35E-06	4.57E-06	4.57E-06	2.26E-06
1784	256894.88	4084876.57	5.5961E-06	8.09E-05	5.97E-05	5.97E-05	3.33E-05	8.49E-07	1.23E-05	9.31E-06	9.31E-06	5.12E-06	4.61E-07	6.67E-06	4.14E-06	4.14E-06	2.05E-06
1785	256910.34	4084834.81	5.1289E-06	7.42E-05	5.47E-05	5.47E-05	3.05E-05	7.78E-07	1.13E-05	8.54E-06	8.54E-06	4.69E-06	4.23E-07	6.11E-06	3.80E-06	3.80E-06	1.88E-06
1786	256925.81	4084793.04	4.7355E-06	6.85E-05	5.05E-05	5.05E-05	2.81E-05	7.19E-07	1.04E-05	7.88E-06	7.88E-06	4.33E-06	3.90E-07	5.65E-06	3.51E-06	3.51E-06	1.74E-06
1787	256941.27	4084751.28	4.3769E-06	6.33E-05	4.67E-05	4.67E-05	2.60E-05	6.64E-07	9.64E-06	7.29E-06	7.29E-06	4.01E-06	3.61E-07	5.22E-06	3.24E-06	3.24E-06	1.60E-06
1788	256956.74	4084709.51	0.000004047	5.85E-05	4.31E-05	4.31E-05	2.41E-05	6.14E-07	8.92E-06	6.74E-06	6.74E-06	3.70E-06	3.34E-07	4.82E-06	3.00E-06	3.00E-06	1.48E-06
1789	256972.21	4084667.75	0.000003756	5.43E-05	4.00E-05	4.00E-05	2.23E-05	5.70E-07	8.28E-06	6.25E-06	6.25E-06	3.44E-06	3.10E-07	4.48E-06	2.78E-06	2.78E-06	1.38E-06
1790	256987.67	4084625.98	3.5142E-06	5.08E-05	3.75E-05	3.75E-05	2.09E-05	5.33E-07	7.74E-06	5.85E-06	5.85E-06	3.22E-06	2.90E-07	4.19E-06	2.60E-06	2.60E-06	1.29E-06
1791	257003.14	4084584.22	3.3072E-06	4.78E-05	3.53E-05	3.53E-05	1.97E-05	5.02E-07	7.29E-06	5.50E-06	5.50E-06	3.03E-06	2.73E-07	3.94E-06	2.45E-06	2.45E-06	1.21E-06
1792	257018.6	4084542.45	3.1187E-06	4.51E-05	3.32E-05	3.32E-05	1.85E-05	4.73E-07	6.87E-06	5.19E-06	5.19E-06	2.85E-06	2.57E-07	3.72E-06	2.31E-06	2.31E-06	1.14E-06
1793	257034.07	4084500.69	2.9425E-06	4.26E-05	3.14E-05	3.14E-05	1.75E-05	4.47E-07	6.48E-06	4.90E-06	4.90E-06	2.69E-06	2.43E-07	3.51E-06	2.18E-06	2.18E-06	1.08E-06
1794	257062.02	4084470.46	2.8687E-06	4.15E-05	3.06E-05	3.06E-05	1.71E-05	4.35E-07	6.32E-06	4.78E-06	4.78E-06	2.63E-06	2.36E-07	3.42E-06	2.12E-06	2.12E-06	1.05E-06
1795	257102.45	4084451.78	2.8995E-06	4.19E-05	3.09E-05	3.09E-05	1.72E-05	4.40E-07	6.39E-06	4.83E-06	4.83E-06	2.65E-06	2.39E-07	3.46E-06	2.15E-06	2.15E-06	1.06E-06
1796	257142.88	4084433.11	2.9466E-06	4.26E-05	3.14E-05	3.14E-05	1.75E-05	4.47E-07	6.49E-06	4.90E-06	4.90E-06	2.70E-06	2.43E-07	3.51E-06	2.18E-06	2.18E-06	1.08E-06
1797	257183.31	4084414.43	0.000003006	4.35E-05	3.20E-05	3.20E-05	1.79E-05	4.56E-07	6.62E-06	5.00E-06	5.00E-06	2.75E-06	2.48E-07	3.58E-06	2.23E-06	2.23E-06	1.10E-06
1798	257223.74	4084395.75	3.0572E-06	4.42E-05	3.26E-05	3.26E-05	1.82E-05	4.64E-07	6.74E-06	5.09E-06	5.09E-06	2.80E-06	2.52E-07	3.64E-06	2.26E-06	2.26E-06	1.12E-06
1799	257264.17	4084377.07	3.0921E-06	4.47E-05	3.30E-05	3.30E-05	1.84E-05	4.69E-07	6.81E-06	5.15E-06	5.15E-06	2.83E-06	2.55E-07	3.69E-06	2.29E-06	2.29E-06	1.13E-06
1800	257304.61	4084358.39	3.1044E-06	4.49E-05	3.31E-05	3.31E-05	1.85E-05	4.71E-07	6.84E-06	5.17E-06	5.17E-06	2.84E-06	2.56E-07	3.70E-06	2.30E-06	2.30E-06	1.14E-06
1801	257345.04	4084339.71	3.0941E-06	4.48E-05	3.30E-05	3.30E-05	1.84E-05	4.70E-07	6.82E-06	5.15E-06	5.15E-06	2.83E-06	2.55E-07	3.69E-06	2.29E-06	2.29E-06	1.13E-06
1802	257385.47	4084321.04	3.0716E-06	4.44E-05	3.27E-05	3.27E-05	1.83E-05	4.66E-07	6.77E-06	5.11E-06	5.11E-06	2.81E-06	2.53E-07	3.66E-06	2.27E-06	2.27E-06	1.13E-06
1803	257425.9	4084302.36	3.0491E-06	4.41E-05	3.25E-05	3.25E-05	1.81E-05	4.63E-07	6.72E-06	5.08E-06	5.08E-06	2.79E-06	2.51E-07	3.64E-06	2.26E-06	2.26E-06	1.12E-06
1804	257466.33	4084283.68	3.0429E-06	4.40E-05	3.24E-05	3.24E-05	1.81E-05	4.62E-07	6.70E-06	5.07E-06	5.07E-06	2.78E-06	2.51E-07	3.63E-06	2.25E-06	2.25E-06	1.12E-06
1805	256857.04	4085003.27	7.5468E-06	1.09E-04	8.05E-05	8.05E-05	4.49E-05	1.15E-06	1.66E-05	1.26E-05	1.26E-05	6.91E-06	6.22E-07	9.00E-06	5.59E-06	5.59E-06	2.77E-06
1806	256858.69	4085047.83	8.2865E-06	1.20E-04	8.83E-05	8.83E-05	4.93E-05	1.26E-06	1.83E-05	1.38E-05	1.38E-05	7.58E-06	6.83E-07	9.88E-06	6.14E-06	6.14E-06	3.04E-06
1807	256860.34	4085092.39	8.8603E-06	1.28E-04	9.45E-05	9.45E-05	5.27E-05	1.34E-06	1.95E-05	1.47E-05	1.47E-05	8.11E-06	7.30E-07	1.06E-05	6.56E-06	6.56E-06	3.25E-06
1808	256861.99	4085136.96	9.2824E-06	1.34E-04	9.90E-05	9.90E-05	5.52E-05	1.41E-06	2.05E-05	1.55E-05	1.55E-05	8.49E-06	7.65E-07	1.11E-05	6.87E-06	6.87E-06	3.40E-06
1809	256863.64	4085181.52	9.6533E-06	1.40E-04	1.03E-04	1.03E-04	5.74E-05	1.47E-06	2.13E-05	1.61E-05	1.61E-05	8.83E-06	7.96E-07	1.15E-05	7.15E-06	7.15E-06	3.54E-06
1810	256664.04	4084967.61	5.3727E-06	7.77E-05	5.73E-05	5.73E-05	3.19E-05	8.15E-07	1.18E-05	8.94E-06	8.94E-06	4.92E-06	4.43E-07	6.41E-06	3.98E-06	3.98E-06	1.97E-06
1811	256679.44	4084926.03	0.000004924	7.12E-05	5.25E-05	5.25E-05	2.93E-05	7.47E-07	1.08E-05	8.20E-06	8.20E-06	4.51E-06	4.06E-07	5.87E-06	3.65E-06	3.65E-06	1.80E-06
1812	256694.83	4084884.46	4.5101E-06	6.52E-05	4.81E-05	4.81E-05	2.68E-05	6.84E-07	9.94E-06	7.51E-06	7.51E-06	4.13E-06	3.72E-07	5.38E-06	3.34E-06	3.34E-06	1.65E-06
1813	256710.23	4084842.89	4.1679E-06	6.03E-05	4.44E-05	4.44E-05	2.48E-05	6.33E-07	9.18E-06	6.94E-06	6.94E-06	3.81E-06	3.44E-07	4.97E-06	3.09E-06	3.09E-06	1.53E-06
1814	256725.62	4084801.32	3.8933E-06	5.63E-05	4.15E-05	4.15E-05	2.31E-05	5.91E-07	8.58E-06	6.48E-06	6.48E-06	3.56E-06	3.21E-07	4.64E-06	2.88E-06	2.88E-06	1.43E-06
1815	256741.02	4084759.74	3.6617E-06	5.30E-05	3.90E-05	3.90E-05	2.18E-05	5.56E-07	8.07E-06	6.09E-06	6.09E-06	3.35E-06	3.02E-07	4.37E-06	2.71E-06	2.71E-06	1.34E-06
1816	256756.41	4084718.17	3.4404E-06	4.98E-05	3.67E-05	3.67E-05	2.04E-05	5.22E-07	7.58E-06	5.73E-06	5.73E-06	3.15E-06	2.84E-07	4.10E-06	2.55E-06	2.55E-06	1.26E-06
1817	256771.81	4084676.6	0.000003213	4.65E-05	3.43E-05	3.43E-05	1.91E-05	4.88E-07	7.08E-06	5.35E-06	5.35E-06	2.94E-06	2.65E-07	3.83E-06	2.38E-06	2.38E-06	1.18E-06
1818	256787.2	4084635.02	2.9855E-06	4.32E-05	3.18E-05	3.18E-05	1.77E-05	4.53E-07	6.58E-06	4.97E-06	4.97E-06	2.73E-06	2.46E-07	3.56E-06	2.21E-06	2.21E-06	1.09E-06
1819	256802.6	4084593.45	2.7745E-06	4.01E-05	2.96E-05	2.96E-05	1.65E-05	4.21E-07	6.11E-06	4.62E-06	4.62E-06	2.54E-06	2.29E-07	3.31E-06	2.05E-06	2.05E-06	1.02E-06
1820	256817.99	4084551.88	2.6003E-06	3.76E-05	2.77E-05	2.77E-05	1.55E-05	3.95E-07	5.73E-06	4.33E-06	4.33E-06	2.38E-06	2.14E-07	3.10E-06	1.93E-06	1.93E-06	9.53E-07
1821	256833.39	4084510.3	0.000002463	3.56E-05	2.63E-05	2.63E-05	1.46E-05	3.74E-07	5.43E-06	4.10E-06	4.10E-06	2.25E-06	2.03E-07	2.94E-06	1.82E-06	1.82E-06	9.03E-07
1822	256848.78	4084468.73	2.3544E-06	3.41E-05	2.51E-05	2.51E-05	1.40E-05	3.57E-07	5.19E-06	3.92E-06	3.92E-06	2.15E-06	1.94E-07	2.81E-06	1.74E-06	1.74E-06	8.63E-07
1823	256864.18	4084427.16	2.2602E-06	3.27E-05	2.41E-05	2.41E-05	1.34E-05	3.43E-07	4.98E-06	3.76E-06	3.76E-06	2.07E-06	1.86E-07	2.69E-06	1.67E-06	1.67E-06	8.28E-07
1824	256879.57	4084385.58	2.1741E-06	3.14E-05	2.32E-05	2.32E-05	1.29E-05	3.30E-07	4.79E-06	3.62E-06	3.62E-06	1.99E-06	1.79E-07	2.59E-06	1.61E-06	1.61E-06	7.97E-07
1825	256915.09	4084334.72	2.1065E-06	3.05E-05	2.25E-05	2.25E-05	1.25E-05	3.20E-07	4.64E-06	3.51E-06	3.51E-06	1.93E-06	1.74E-07	2.51E-06	1.56E-06	1.56E-06	7.72E-07
1826	256955.33	4084316.12	2.1331E-06	3.09E-05	2.27E-05	2.27E-05	1.27E-05	3.24E-07	4.70E-06	3.55E-06	3.55E-06	1.95E-06	1.76E-07	2.54E-06	1.58E-06	1.58E-06	7.82E-07
1827	256995.58	4084297.53	2.1679E-06	3.14E-05	2.31E-05	2.31E-05	1.29E-05	3.29E-07	4.78E-06	3.61E-06	3.61E-06	1.98E-06	1.79E-07	2.58E-06	1.61E-06	1.61E-06	7.95E-07
1828	257035.82	4084278.94	2.2089E-06	3.19E-05	2.35E-05	2.35E-05	1.31E-05	3.35E-07	4.87E-06	3.68E-06	3.68E-06	2.02E-06	1.82E-07	2.63E-06	1.64E-06	1.64E-06	8.10E-07
1829	257076.07	4084260.35	2.2499E-06	3.25E-05	2.40E-05	2.40E-05	1.34E-05	3.41E-07	4.96E-06	3.75E-06	3.75E-06	2.06E-06	1.85E-07	2.68E-06	1.67E-06	1.67E-06	8.25E-07
1830	257116.31	4084241.75	2.2765E-06	3.29E-05	2.43E-05	2.43E-05	1.35E-05	3.46E-07	5.02E-06	3.79E-06	3.79E-06	2.08E-06	1.88E-07	2.71E-06	1.69E-06	1.69E-06	8.35E-07
1831	257156.56	4084223.16	2.2847E-06	3.30E-05	2.44E-05	2.44E-05	1.36E-05	3.47E-07	5.03E-06	3.80E-06	3.80E-06	2.09E-06	1.88E-07	2.72E-06	1.69E-06	1.69E-06	8.38E-07
1832	257196.8	4084204.57	2.2745E-06	3.29E-05	2.42E-05	2.42E-05	1.35E-05	3.45E-07	5.01E-06	3.79E-06	3.79E-06	2.08E-06	1.87E-07	2.71E-06	1.68E-06	1.68E-06	8.34E-07
1833	257237.05	4084185.98	2.2458E-06	3.25E-05	2.39E-05	2.39E-05	1.33E-05	3.41E-07	4.95E-06	3.74E-06	3.74E-06	2.06E-06	1.85E-07	2.68E-06	1.66E-06	1.66E-06	8.23E-07
1834	257277.29	4084167.38	2.2089E-06	3.19E-05	2.35E-05	2.35E-05	1.31E-05	3.35E-07	4.87E-06	3.68E-06	3.68E-06	2.02E-06	1.82E-07	2.63E-06	1.64E-06	1.64E-06	8.10E-07
1835	257317.54	4084148.79	0.000002172	3.14E-05	2.32E-05	2.32E-05	1.29E-05	3.30E-07	4.79E-06	3.62E-06	3.62E-06	1.99E-06	1.79E-07	2.59E-06	1.61E-06	1.61E-06	7.96E-07
1836	257357.78	4084130.2	2.1454E-06	3.10E-05	2.29E-05	2.29E-05	1.28E-05	3.26E-07	4.73E-06	3.57E-06	3.57E-06	1.96E-06	1.77E-07	2.56E-06	1.59E-06	1.59E-06	7.86E-07
1837	257398.03	4084111.61	2.1352E-06	3.09E-05	2.28E-05	2.28E-05	1.27E-05	3.24E-07	4.70E-06	3.55E-06	3.55E-06	1.95E-06	1.76E-07	2.55E-06	1.58E-06	1.58E-06	7.83E-07
1838	257438.27	4084093.01	2.1413E-06	3.10E-05	2.28E-05	2.28E-05	1.27E-05	3.25E-07	4.72E-06	3.56E-06	3.56E-06	1.96E-06	1.77E-07	2.55E-06	1.59E-06	1.59E-06	7.85E-07
1839	257478.52	4084074.42	2.1638E-06	3.13E-05	2.31E-05	2.31E-05	1.29E-05	3.28E-07	4.77E-06	3.60E-06	3.60E-06	1.98E-06	1.78E-07	2.58E-06	1.60E-06	1.60E-06	7.93E-07
1840	256657.17	4085010.67	0.000005842	8.45E-05	6.23E-05	6.23E-05	3.47E-05	8.87E-07	1.29E-05	9.72E-06	9.72E-06	5.35E-06	4.82E-07	6.96E-06	4.33E-06	4.33E-06	2.14E-06
1841	256658.82	4085055.24	6.2825E-06	9.09E-05	6.70E-05	6.70E-05	3.73E-05	9.53E-07	1.38E-05	1.05E-05	1.05E-05	5.75E-06	5.18E-07	7.49E-06	4.65E-06	4.65E-06	2.30E-06
1842	256660.47	4085099.8	0.000006594	9.54E-05	7.03E-05	7.03E-05	3.92E-05	1.00E-06	1.45E-05	1.10E-05	1.10E-05	6.03E-06	5.44E-07	7.86E-06	4.88E-06	4.88E-06	2.42E-06
1843	256662.13	4085144.36	0.000006805	9.84E-05	7.25E-05	7.25E-05	4.04E-05	1.03E-06	1.50E-05	1.13E-05	1.13E-05	6.23E-06	5.61E-07	8.11E-06	5.04E-06	5.04E-06	2.49E-06
1844	256662.95	4085166.64	6.8932E-06	9.97E-05	7.35E-05	7.35E-05	4.10E-05	1.05E-06	1.52E-05	1.15E-05	1.15E-05	6.31E-06	5.68E-07	8.22E-06	5.10E-06	5.10E-06	2.53E-06
1845	256464.16	4084975.07	4.4547E-06	6.44E-05	4.75E-05	4.75E-05	2.65E-05	6.76E-07	9.82E-06	7.41E-06	7.41E-06	4.08E-06	3.67E-07	5.31E-06	3.30E-06	3.30E-06	1.63E-06
1846	256479.51	4084933.62	4.1269E-06	5.97E-05	4.40E-05	4.40E-05	2.45E-05	6.26E-07	9.09E-06	6.87E-06	6.87E-06	3.78E-06	3.40E-07	4.92E-06	3.06E-06	3.06E-06	1.51E-06
1847	256494.86	4084892.17	3.8113E-06	5.51E-05	4.06E-05	4.06E-05	2.27E-05	5.78E-07	8.40E-06	6.34E-06	6.34E-06	3.49E-06	3.14E-07	4.54E-06	2.82E-06	2.82E-06	1.40E-06
1848	256510.21	4084850.72	3.5326E-06	5.11E-05	3.77E-05	3.77E-05	2.10E-05	5.36E-07	7.78E-06	5.88E-06	5.88E-06	3.23E-06	2.91E-07	4.21E-06	2.62E-06	2.62E-06	1.29E-06
1849	256525.56	4084809.27	3.3093E-06	4.79E-05	3.53E-05	3.53E-05	1.97E-05	5.02E-07	7.29E-06	5.51E-06	5.51E-06	3.03E-06	2.73E-07	3.95E-06	2.45E-06	2.45E-06	1.21E-06
1850	256540.91	4084767.82	3.1331E-06	4.53E-05	3.34E-05	3.34E-05	1.86E-05	4.76E-07	6.90E-06	5.22E-06	5.22E-06	2.87E-06	2.58E-07	3.74E-06	2.32E-06	2.32E-06	1.15E-06
1851	256556.26	4084726.36	2.9855E-06	4.32E-05	3.18E-05	3.18E-05	1.77E-05	4.53E-07	6.58E-06	4.97E-06	4.97E-06	2.73E-06	2.46E-07	3.56E-06	2.21E-06	2.21E-06	1.09E-06
1852	256571.61	4084684.91	2.8462E-06	4.12E-05	3.03E-05	3.03E-05	1.69E-05	4.32E-07	6.27E-06	4.74E-06	4.74E-06	2.60E-06	2.35E-07	3.39E-06	2.11E-06	2.11E-06	1.04E-06
1853	256586.96	4084643.46	2.6946E-06	3.90E-05	2.87E-05	2.87E-05	1.60E-05	4.09E-07	5.94E-06	4.49E-06	4.49E-06	2.47E-06	2.22E-07	3.21E-06	2.00E-06	2.00E-06	9.88E-07
1854	256602.31	4084602.01	2.5265E-06	3.65E-05	2.69E-05	2.69E-05	1.50E-05	3.83E-07	5.57E-06	4.21E-06	4.21E-06	2.31E-06	2.08E-07	3.01E-06	1.87E-06	1.87E-06	9.26E-07
1855	256617.66	4084560.56	2.3503E-06	3.40E-05	2.51E-05	2.51E-05	1.40E-05	3.57E-07	5.18E-06	3.91E-06	3.91E-06	2.15E-06	1.94E-07	2.80E-06	1.74E-06	1.74E-06	8.62E-07
1856	256633.01	4084519.11	2.1823E-06	3.16E-05	2.33E-05	2.33E-05	1.30E-05	3.31E-07	4.81E-06	3.63E-06	3.63E-06	2.00E-06	1.80E-07	2.60E-06	1.62E-06	1.62E-06	8.00E-07
1857	256648.36	4084477.66	2.0389E-06	2.95E-05	2.17E-05	2.17E-05	1.21E-05	3.09E-07	4.49E-06	3.39E-06	3.39E-06	1.87E-06	1.68E-07	2.43E-06	1.51E-06	1.51E-06	7.47E-07
1858	256663.71	4084436.2	1.9323E-06	2.79E-05	2.06E-05	2.06E-05	1.15E-05	2.93E-07	4.26E-06	3.22E-06	3.22E-06	1.77E-06	1.59E-07	2.30E-06	1.43E-06	1.43E-06	7.08E-07
1859	256679.06	4084394.75	1.8565E-06	2.69E-05	1.98E-05	1.98E-05	1.10E-05	2.82E-07	4.09E-06	3.09E-06	3.09E-06	1.70E-06	1.53E-07	2.21E-06	1.37E-06	1.37E-06	6.81E-07
1860	256694.41	4084353.3	1.8032E-06	2.61E-05	1.92E-05	1.92E-05	1.07E-05	2.74E-07	3.97E-06	3.00E-06	3.00E-06	1.65E-06	1.49E-07	2.15E-06	1.34E-06	1.34E-06	6.61E-07
1861	256709.76	4084311.85	1.7622E-06	2.55E-05	1.88E-05	1.88E-05	1.05E-05	2.67E-07	3.88E-06	2.93E-06	2.93E-06	1.61E-06	1.45E-07	2.10E-06	1.31E-06	1.31E-06	6.46E-07
1862	256725.11	4084270.4	1.7253E-06	2.50E-05	1.84E-05	1.84E-05	1.03E-05	2.62E-07	3.80E-06	2.87E-06	2.87E-06	1.58E-06	1.42E-07	2.06E-06	1.28E-06	1.28E-06	6.32E-07
1863	256740.46	4084228.95	1.6885E-06	2.44E-05	1.80E-05	1.80E-05	1.00E-05	2.56E-07	3.72E-06	2.81E-06	2.81E-06	1.55E-06	1.39E-07	2.01E-06	1.25E-06	1.25E-06	6.19E-07
1864	256768.19	4084198.95	1.6823E-06	2.43E-05	1.79E-05	1.79E-05	1.00E-05	2.55E-07	3.71E-06	2.80E-06	2.80E-06	1.54E-06	1.39E-07	2.01E-06	1.25E-06	1.25E-06	6.17E-07
1865	256808.32	4084180.41	1.7007E-06	2.46E-05	1.81E-05	1.81E-05	1.01E-05	2.58E-07	3.75E-06	2.83E-06	2.83E-06	1.56E-06	1.40E-07	2.03E-06	1.26E-06	1.26E-06	6.23E-07
1866	256848.45	4084161.88	1.7233E-06	2.49E-05	1.84E-05	1.84E-05	1.02E-05	2.62E-07	3.80E-06	2.87E-06	2.87E-06	1.58E-06	1.42E-07	2.05E-06	1.28E-06	1.28E-06	6.32E-07
1867	256888.58	4084143.34	1.7458E-06	2.53E-05	1.86E-05	1.86E-05	1.04E-05	2.65E-07	3.85E-06	2.91E-06	2.91E-06	1.60E-06	1.44E-07	2.08E-06	1.29E-06	1.29E-06	6.40E-07
1868	256928.7	4084124.8	1.7704E-06	2.56E-05	1.89E-05	1.89E-05	1.05E-05	2.69E-07	3.90E-06	2.95E-06	2.95E-06	1.62E-06	1.46E-07	2.11E-06	1.31E-06	1.31E-06	6.49E-07

1869	256968.83	4084106.26	1.7868E-06	2.58E-05	1.90E-05	1.90E-05	1.06E-05	2.71E-07	3.94E-06	2.97E-06	2.97E-06	1.64E-06	1.47E-07	2.13E-06	1.32E-06	1.32E-06	6.55E-07
1870	257008.96	4084087.72	0.000001793	2.59E-05	1.91E-05	1.91E-05	1.07E-05	2.72E-07	3.95E-06	2.98E-06	2.98E-06	1.64E-06	1.48E-07	2.14E-06	1.33E-06	1.33E-06	6.57E-07
1871	257049.08	4084069.19	1.7868E-06	2.58E-05	1.90E-05	1.90E-05	1.06E-05	2.71E-07	3.94E-06	2.97E-06	2.97E-06	1.64E-06	1.47E-07	2.13E-06	1.32E-06	1.32E-06	6.55E-07
1872	257089.21	4084050.65	1.7704E-06	2.56E-05	1.89E-05	1.89E-05	1.05E-05	2.69E-07	3.90E-06	2.95E-06	2.95E-06	1.62E-06	1.46E-07	2.11E-06	1.31E-06	1.31E-06	6.49E-07
1873	257129.34	4084032.11	1.7458E-06	2.53E-05	1.86E-05	1.86E-05	1.04E-05	2.65E-07	3.85E-06	2.91E-06	2.91E-06	1.60E-06	1.44E-07	2.08E-06	1.29E-06	1.29E-06	6.40E-07
1874	257169.47	4084013.57	1.7192E-06	2.49E-05	1.83E-05	1.83E-05	1.02E-05	2.61E-07	3.79E-06	2.86E-06	2.86E-06	1.57E-06	1.42E-07	2.05E-06	1.27E-06	1.27E-06	6.30E-07
1875	257209.59	4083995.03	1.6926E-06	2.45E-05	1.80E-05	1.80E-05	1.01E-05	2.57E-07	3.73E-06	2.82E-06	2.82E-06	1.55E-06	1.40E-07	2.02E-06	1.25E-06	1.25E-06	6.20E-07
1876	257249.72	4083976.5	0.00000167	2.42E-05	1.78E-05	1.78E-05	9.93E-06	2.53E-07	3.68E-06	2.78E-06	2.78E-06	1.53E-06	1.38E-07	1.99E-06	1.24E-06	1.24E-06	6.12E-07
1877	257289.85	4083957.96	1.6557E-06	2.39E-05	1.77E-05	1.77E-05	9.84E-06	2.51E-07	3.65E-06	2.76E-06	2.76E-06	1.52E-06	1.36E-07	1.97E-06	1.23E-06	1.23E-06	6.07E-07
1878	257329.97	4083939.42	1.6475E-06	2.38E-05	1.76E-05	1.76E-05	9.79E-06	2.50E-07	3.63E-06	2.74E-06	2.74E-06	1.51E-06	1.36E-07	1.96E-06	1.22E-06	1.22E-06	6.04E-07
1879	257370.1	4083920.88	1.6475E-06	2.38E-05	1.76E-05	1.76E-05	9.79E-06	2.50E-07	3.63E-06	2.74E-06	2.74E-06	1.51E-06	1.36E-07	1.96E-06	1.22E-06	1.22E-06	6.04E-07
1880	257410.23	4083902.34	1.6516E-06	2.39E-05	1.76E-05	1.76E-05	9.82E-06	2.51E-07	3.64E-06	2.75E-06	2.75E-06	1.51E-06	1.36E-07	1.97E-06	1.22E-06	1.22E-06	6.05E-07
1881	257450.36	4083883.81	1.6598E-06	2.40E-05	1.77E-05	1.77E-05	9.86E-06	2.52E-07	3.66E-06	2.76E-06	2.76E-06	1.52E-06	1.37E-07	1.98E-06	1.23E-06	1.23E-06	6.08E-07
1882	256457.31	4085018.08	4.7744E-06	6.91E-05	5.09E-05	5.09E-05	2.84E-05	7.25E-07	1.05E-05	7.95E-06	7.95E-06	4.37E-06	3.94E-07	5.69E-06	3.54E-06	3.54E-06	1.75E-06
1883	256458.96	4085062.64	5.0592E-06	7.32E-05	5.39E-05	5.39E-05	3.01E-05	7.68E-07	1.11E-05	8.42E-06	8.42E-06	4.63E-06	4.17E-07	6.03E-06	3.75E-06	3.75E-06	1.85E-06
1884	256460.61	4085107.2	5.2457E-06	7.59E-05	5.59E-05	5.59E-05	3.12E-05	7.96E-07	1.16E-05	8.73E-06	8.73E-06	4.80E-06	4.32E-07	6.25E-06	3.88E-06	3.88E-06	1.92E-06
1885	256462.26	4085151.77	5.3625E-06	7.76E-05	5.72E-05	5.72E-05	3.19E-05	8.14E-07	1.18E-05	8.93E-06	8.93E-06	4.91E-06	4.42E-07	6.39E-06	3.97E-06	3.97E-06	1.97E-06
1886	256463.91	4085196.33	5.4588E-06	7.90E-05	5.82E-05	5.82E-05	3.24E-05	8.28E-07	1.20E-05	9.09E-06	9.09E-06	5.00E-06	4.50E-07	6.51E-06	4.04E-06	4.04E-06	2.00E-06
1887	256264.28	4084982.52	3.8113E-06	5.51E-05	4.06E-05	4.06E-05	2.27E-05	5.78E-07	8.40E-06	6.34E-06	6.34E-06	3.49E-06	3.14E-07	4.54E-06	2.82E-06	2.82E-06	1.40E-06
1888	256279.6	4084941.15	3.5675E-06	5.16E-05	3.80E-05	3.80E-05	2.12E-05	5.41E-07	7.86E-06	5.94E-06	5.94E-06	3.26E-06	2.94E-07	4.25E-06	2.64E-06	2.64E-06	1.31E-06
1889	256294.92	4084899.78	3.3195E-06	4.80E-05	3.54E-05	3.54E-05	1.97E-05	5.04E-07	7.31E-06	5.53E-06	5.53E-06	3.04E-06	2.74E-07	3.96E-06	2.46E-06	2.46E-06	1.22E-06
1890	256310.24	4084858.42	3.0921E-06	4.47E-05	3.30E-05	3.30E-05	1.84E-05	4.69E-07	6.81E-06	5.15E-06	5.15E-06	2.83E-06	2.55E-07	3.69E-06	2.29E-06	2.29E-06	1.13E-06
1891	256325.56	4084817.05	2.8995E-06	4.19E-05	3.09E-05	3.09E-05	1.72E-05	4.40E-07	6.39E-06	4.83E-06	4.83E-06	2.65E-06	2.39E-07	3.46E-06	2.15E-06	2.15E-06	1.06E-06
1892	256340.87	4084775.68	2.7458E-06	3.97E-05	2.93E-05	2.93E-05	1.63E-05	4.17E-07	6.05E-06	4.57E-06	4.57E-06	2.51E-06	2.26E-07	3.27E-06	2.03E-06	2.03E-06	1.01E-06
1893	256356.19	4084734.31	2.6249E-06	3.80E-05	2.80E-05	2.80E-05	1.56E-05	3.98E-07	5.78E-06	4.37E-06	4.37E-06	2.40E-06	2.16E-07	3.13E-06	1.94E-06	1.94E-06	9.62E-07
1894	256371.51	4084692.95	2.5245E-06	3.65E-05	2.69E-05	2.69E-05	1.50E-05	3.83E-07	5.56E-06	4.20E-06	4.20E-06	2.31E-06	2.08E-07	3.01E-06	1.87E-06	1.87E-06	9.25E-07
1895	256386.83	4084651.58	2.4302E-06	3.51E-05	2.59E-05	2.59E-05	1.44E-05	3.69E-07	5.35E-06	4.05E-06	4.05E-06	2.22E-06	2.00E-07	2.90E-06	1.80E-06	1.80E-06	8.91E-07
1896	256402.15	4084610.21	2.3278E-06	3.37E-05	2.48E-05	2.48E-05	1.38E-05	3.53E-07	5.13E-06	3.87E-06	3.87E-06	2.13E-06	1.92E-07	2.78E-06	1.72E-06	1.72E-06	8.53E-07
1897	256417.47	4084568.84	0.000002211	3.20E-05	2.36E-05	2.36E-05	1.31E-05	3.36E-07	4.87E-06	3.68E-06	3.68E-06	2.02E-06	1.82E-07	2.64E-06	1.64E-06	1.64E-06	8.10E-07
1898	256432.79	4084527.48	2.0757E-06	3.00E-05	2.21E-05	2.21E-05	1.23E-05	3.15E-07	4.57E-06	3.46E-06	3.46E-06	1.90E-06	1.71E-07	2.47E-06	1.54E-06	1.54E-06	7.61E-07
1899	256448.11	4084486.11	1.9282E-06	2.79E-05	2.06E-05	2.06E-05	1.15E-05	2.93E-07	4.25E-06	3.21E-06	3.21E-06	1.76E-06	1.59E-07	2.30E-06	1.43E-06	1.43E-06	7.07E-07
1900	256463.43	4084444.74	1.7889E-06	2.59E-05	1.91E-05	1.91E-05	1.06E-05	2.71E-07	3.94E-06	2.98E-06	2.98E-06	1.64E-06	1.47E-07	2.13E-06	1.32E-06	1.32E-06	6.56E-07
1901	256478.74	4084403.37	0.00000167	2.42E-05	1.78E-05	1.78E-05	9.93E-06	2.53E-07	3.68E-06	2.78E-06	2.78E-06	1.53E-06	1.38E-07	1.99E-06	1.24E-06	1.24E-06	6.12E-07
1902	256494.06	4084362	1.5778E-06	2.28E-05	1.68E-05	1.68E-05	9.38E-06	2.39E-07	3.48E-06	2.63E-06	2.63E-06	1.44E-06	1.30E-07	1.88E-06	1.17E-06	1.17E-06	5.78E-07
1903	256509.38	4084320.64	1.5163E-06	2.19E-05	1.62E-05	1.62E-05	9.01E-06	2.30E-07	3.34E-06	2.52E-06	2.52E-06	1.39E-06	1.25E-07	1.81E-06	1.12E-06	1.12E-06	5.56E-07
1904	256524.7	4084279.27	1.4794E-06	2.14E-05	1.58E-05	1.58E-05	8.79E-06	2.25E-07	3.26E-06	2.46E-06	2.46E-06	1.35E-06	1.22E-07	1.76E-06	1.10E-06	1.10E-06	5.42E-07
1905	256540.02	4084237.9	0.000001459	2.11E-05	1.56E-05	1.56E-05	8.67E-06	2.21E-07	3.21E-06	2.43E-06	2.43E-06	1.34E-06	1.20E-07	1.74E-06	1.08E-06	1.08E-06	5.35E-07
1906	256555.34	4084196.53	1.4467E-06	2.09E-05	1.54E-05	1.54E-05	8.60E-06	2.20E-07	3.19E-06	2.41E-06	2.41E-06	1.32E-06	1.19E-07	1.72E-06	1.07E-06	1.07E-06	5.30E-07
1907	256570.66	4084155.17	1.4364E-06	2.08E-05	1.53E-05	1.53E-05	8.54E-06	2.18E-07	3.17E-06	2.39E-06	2.39E-06	1.31E-06	1.18E-07	1.71E-06	1.06E-06	1.06E-06	5.27E-07
1908	256585.98	4084113.8	1.4262E-06	2.06E-05	1.52E-05	1.52E-05	8.48E-06	2.16E-07	3.14E-06	2.37E-06	2.37E-06	1.31E-06	1.18E-07	1.70E-06	1.06E-06	1.06E-06	5.23E-07
1909	256621.32	4084063.18	1.4159E-06	2.05E-05	1.51E-05	1.51E-05	8.42E-06	2.15E-07	3.12E-06	2.36E-06	2.36E-06	1.30E-06	1.17E-07	1.69E-06	1.05E-06	1.05E-06	5.19E-07
1910	256661.36	4084044.68	1.4282E-06	2.07E-05	1.52E-05	1.52E-05	8.49E-06	2.17E-07	3.15E-06	2.38E-06	2.38E-06	1.31E-06	1.18E-07	1.70E-06	1.06E-06	1.06E-06	5.24E-07
1911	256701.41	4084026.18	1.4364E-06	2.08E-05	1.53E-05	1.53E-05	8.54E-06	2.18E-07	3.17E-06	2.39E-06	2.39E-06	1.31E-06	1.18E-07	1.71E-06	1.06E-06	1.06E-06	5.27E-07
1912	256741.46	4084007.68	1.4446E-06	2.09E-05	1.54E-05	1.54E-05	8.59E-06	2.19E-07	3.18E-06	2.40E-06	2.40E-06	1.32E-06	1.19E-07	1.72E-06	1.07E-06	1.07E-06	5.30E-07
1913	256781.5	4083989.18	1.4528E-06	2.10E-05	1.55E-05	1.55E-05	8.63E-06	2.20E-07	3.20E-06	2.42E-06	2.42E-06	1.33E-06	1.20E-07	1.73E-06	1.08E-06	1.08E-06	5.33E-07
1914	256821.55	4083970.68	0.000001459	2.11E-05	1.56E-05	1.56E-05	8.67E-06	2.21E-07	3.21E-06	2.43E-06	2.43E-06	1.34E-06	1.20E-07	1.74E-06	1.08E-06	1.08E-06	5.35E-07
1915	256861.59	4083952.18	0.000001461	2.11E-05	1.56E-05	1.56E-05	8.68E-06	2.22E-07	3.22E-06	2.43E-06	2.43E-06	1.34E-06	1.20E-07	1.74E-06	1.08E-06	1.08E-06	5.36E-07
1916	256901.64	4083933.68	0.000001459	2.11E-05	1.56E-05	1.56E-05	8.67E-06	2.21E-07	3.21E-06	2.43E-06	2.43E-06	1.34E-06	1.20E-07	1.74E-06	1.08E-06	1.08E-06	5.35E-07
1917	256941.69	4083915.18	1.4508E-06	2.10E-05	1.55E-05	1.55E-05	8.62E-06	2.20E-07	3.20E-06	2.41E-06	2.41E-06	1.33E-06	1.20E-07	1.73E-06	1.07E-06	1.07E-06	5.32E-07
1918	256981.73	4083896.67	1.4385E-06	2.08E-05	1.53E-05	1.53E-05	8.55E-06	2.18E-07	3.17E-06	2.39E-06	2.39E-06	1.32E-06	1.19E-07	1.71E-06	1.07E-06	1.07E-06	5.27E-07
1919	257021.78	4083878.17	1.4241E-06	2.06E-05	1.52E-05	1.52E-05	8.46E-06	2.16E-07	3.14E-06	2.37E-06	2.37E-06	1.30E-06	1.17E-07	1.70E-06	1.05E-06	1.05E-06	5.22E-07
1920	257061.82	4083859.67	1.4098E-06	2.04E-05	1.50E-05	1.50E-05	8.38E-06	2.14E-07	3.11E-06	2.35E-06	2.35E-06	1.29E-06	1.16E-07	1.68E-06	1.04E-06	1.04E-06	5.17E-07
1921	257101.87	4083841.17	1.3975E-06	2.02E-05	1.49E-05	1.49E-05	8.31E-06	2.12E-07	3.08E-06	2.33E-06	2.33E-06	1.28E-06	1.15E-07	1.67E-06	1.03E-06	1.03E-06	5.12E-07
1922	257141.92	4083822.67	1.3852E-06	2.00E-05	1.48E-05	1.48E-05	8.23E-06	2.10E-07	3.05E-06	2.31E-06	2.31E-06	1.27E-06	1.14E-07	1.65E-06	1.03E-06	1.03E-06	5.08E-07
1923	257181.96	4083804.17	1.3729E-06	1.99E-05	1.46E-05	1.46E-05	8.16E-06	2.08E-07	3.03E-06	2.29E-06	2.29E-06	1.26E-06	1.13E-07	1.64E-06	1.02E-06	1.02E-06	5.03E-07
1924	257222.01	4083785.67	1.3606E-06	1.97E-05	1.45E-05	1.45E-05	8.09E-06	2.06E-07	3.00E-06	2.26E-06	2.26E-06	1.25E-06	1.12E-07	1.62E-06	1.01E-06	1.01E-06	4.99E-07
1925	257262.05	4083767.17	1.3504E-06	1.95E-05	1.44E-05	1.44E-05	8.03E-06	2.05E-07	2.98E-06	2.25E-06	2.25E-06	1.24E-06	1.11E-07	1.61E-06	1.00E-06	1.00E-06	4.95E-07
1926	257302.1	4083748.67	1.3401E-06	1.94E-05	1.43E-05	1.43E-05	7.96E-06	2.03E-07	2.95E-06	2.23E-06	2.23E-06	1.23E-06	1.10E-07	1.60E-06	9.92E-07	9.92E-07	4.91E-07
1927	257342.15	4083730.17	1.3299E-06	1.92E-05	1.42E-05	1.42E-05	7.90E-06	2.02E-07	2.93E-06	2.21E-06	2.21E-06	1.22E-06	1.10E-07	1.59E-06	9.85E-07	9.85E-07	4.87E-07
1928	257382.19	4083711.67	1.3217E-06	1.91E-05	1.41E-05	1.41E-05	7.85E-06	2.01E-07	2.91E-06	2.20E-06	2.20E-06	1.21E-06	1.09E-07	1.58E-06	9.79E-07	9.79E-07	4.84E-07
1929	257422.24	4083693.17	1.3155E-06	1.90E-05	1.40E-05	1.40E-05	7.82E-06	2.00E-07	2.90E-06	2.19E-06	2.19E-06	1.20E-06	1.08E-07	1.57E-06	9.74E-07	9.74E-07	4.82E-07
1930	257462.28	4083674.67	1.3114E-06	1.90E-05	1.40E-05	1.40E-05	7.79E-06	1.99E-07	2.89E-06	2.18E-06	2.18E-06	1.20E-06	1.08E-07	1.56E-06	9.71E-07	9.71E-07	4.81E-07
1931	256257.45	4085025.49	4.0408E-06	5.84E-05	4.31E-05	4.31E-05	2.40E-05	6.13E-07	8.90E-06	6.73E-06	6.73E-06	3.70E-06	3.33E-07	4.82E-06	2.99E-06	2.99E-06	1.48E-06
1932	256259.1	4085070.05	4.2355E-06	6.13E-05	4.52E-05	4.52E-05	2.52E-05	6.43E-07	9.33E-06	7.05E-06	7.05E-06	3.88E-06	3.49E-07	5.05E-06	3.14E-06	3.14E-06	1.55E-06
1933	256260.75	4085114.61	4.3543E-06	6.30E-05	4.64E-05	4.64E-05	2.59E-05	6.61E-07	9.59E-06	7.25E-06	7.25E-06	3.98E-06	3.59E-07	5.19E-06	3.22E-06	3.22E-06	1.60E-06
1934	256261.57	4085136.89	4.3933E-06	6.35E-05	4.68E-05	4.68E-05	2.61E-05	6.67E-07	9.68E-06	7.31E-06	7.31E-06	4.02E-06	3.62E-07	5.24E-06	3.25E-06	3.25E-06	1.61E-06
1935	256263.23	4085181.45	4.4506E-06	6.44E-05	4.74E-05	4.74E-05	2.65E-05	6.75E-07	9.81E-06	7.41E-06	7.41E-06	4.07E-06	3.67E-07	5.31E-06	3.30E-06	3.30E-06	1.63E-06
1936	256064.41	4084989.96	3.3359E-06	4.82E-05	3.56E-05	3.56E-05	1.98E-05	5.06E-07	7.35E-06	5.55E-06	5.55E-06	3.05E-06	2.75E-07	3.98E-06	2.47E-06	2.47E-06	1.22E-06
1937	256079.7	4084948.65	3.1556E-06	4.56E-05	3.36E-05	3.36E-05	1.88E-05	4.79E-07	6.95E-06	5.25E-06	5.25E-06	2.89E-06	2.60E-07	3.76E-06	2.34E-06	2.34E-06	1.16E-06
1938	256095	4084907.34	2.9589E-06	4.28E-05	3.15E-05	3.15E-05	1.76E-05	4.49E-07	6.52E-06	4.93E-06	4.93E-06	2.71E-06	2.44E-07	3.53E-06	2.19E-06	2.19E-06	1.08E-06
1939	256110.3	4084866.04	2.7704E-06	4.01E-05	2.95E-05	2.95E-05	1.65E-05	4.20E-07	6.10E-06	4.61E-06	4.61E-06	2.54E-06	2.28E-07	3.30E-06	2.05E-06	2.05E-06	1.02E-06
1940	256125.59	4084824.73	2.6024E-06	3.76E-05	2.77E-05	2.77E-05	1.55E-05	3.95E-07	5.73E-06	4.33E-06	4.33E-06	2.38E-06	2.15E-07	3.10E-06	1.93E-06	1.93E-06	9.54E-07
1941	256140.89	4084783.42	0.000002463	3.56E-05	2.63E-05	2.63E-05	1.46E-05	3.74E-07	5.43E-06	4.10E-06	4.10E-06	2.25E-06	2.03E-07	2.94E-06	1.82E-06	1.82E-06	9.03E-07
1942	256156.18	4084742.12	2.3524E-06	3.40E-05	2.51E-05	2.51E-05	1.40E-05	3.57E-07	5.18E-06	3.92E-06	3.92E-06	2.15E-06	1.94E-07	2.80E-06	1.74E-06	1.74E-06	8.62E-07
1943	256171.48	4084700.81	2.2643E-06	3.27E-05	2.41E-05	2.41E-05	1.35E-05	3.44E-07	4.99E-06	3.77E-06	3.77E-06	2.07E-06	1.87E-07	2.70E-06	1.68E-06	1.68E-06	8.30E-07
1944	256186.78	4084659.5	2.1905E-06	3.17E-05	2.34E-05	2.34E-05	1.30E-05	3.32E-07	4.83E-06	3.65E-06	3.65E-06	2.00E-06	1.81E-07	2.61E-06	1.62E-06	1.62E-06	8.03E-07
1945	256202.07	4084618.2	2.1229E-06	3.07E-05	2.26E-05	2.26E-05	1.26E-05	3.22E-07	4.68E-06	3.53E-06	3.53E-06	1.94E-06	1.75E-07	2.53E-06	1.57E-06	1.57E-06	7.78E-07
1946	256217.37	4084576.89	2.0511E-06	2.97E-05	2.19E-05	2.19E-05	1.22E-05	3.11E-07	4.52E-06	3.41E-06	3.41E-06	1.88E-06	1.69E-07	2.45E-06	1.52E-06	1.52E-06	7.52E-07
1947	256232.66	4084535.58	1.9692E-06	2.85E-05	2.10E-05	2.10E-05	1.17E-05	2.99E-07	4.34E-06	3.28E-06	3.28E-06	1.80E-06	1.62E-07	2.35E-06	1.46E-06	1.46E-06	7.22E-07
1948	256247.96	4084494.28	1.8688E-06	2.70E-05	1.99E-05	1.99E-05	1.11E-05	2.84E-07	4.12E-06	3.11E-06	3.11E-06	1.71E-06	1.54E-07	2.23E-06	1.38E-06	1.38E-06	6.85E-07
1949	256263.26	4084452.97	1.7499E-06	2.53E-05	1.87E-05	1.87E-05	1.04E-05	2.66E-07	3.86E-06	2.91E-06	2.91E-06	1.60E-06	1.44E-07	2.09E-06	1.30E-06	1.30E-06	6.41E-07
1950	256278.55	4084411.66	1.6311E-06	2.36E-05	1.74E-05	1.74E-05	9.69E-06	2.48E-07	3.59E-06	2.71E-06	2.71E-06	1.49E-06	1.34E-07	1.94E-06	1.21E-06	1.21E-06	5.98E-07
1951	256293.85	4084370.36	1.5122E-06	2.19E-05	1.61E-05	1.61E-05	8.99E-06	2.30E-07	3.33E-06	2.52E-06	2.52E-06	1.38E-06	1.25E-07	1.80E-06	1.12E-06	1.12E-06	5.54E-07
1952	256309.15	4084329.05	1.4098E-06	2.04E-05	1.50E-05	1.50E-05	8.38E-06	2.14E-07	3.11E-06	2.35E-06	2.35E-06	1.29E-06	1.16E-07	1.68E-06	1.04E-06	1.04E-06	5.17E-07
1953	256324.44	4084287.74	1.3299E-06	1.92E-05	1.42E-05	1.42E-05	7.90E-06	2.02E-07	2.93E-06	2.21E-06	2.21E-06	1.22E-06	1.10E-07	1.59E-06	9.85E-07	9.85E-07	4.87E-07
1954	256339.74	4084246.44	1.2745E-06	1.84E-05	1.36E-05	1.36E-05	7.58E-06	1.93E-07	2.81E-06	2.12E-06	2.12E-06	1.17E-06	1.05E-07	1.52E-06	9.44E-07	9.44E-07	4.67E-07
1955	256355.03	4084205.13	1.2418E-06	1.80E-05	1.32E-05	1.32E-05	7.38E-06	1.88E-07	2.74E-06	2.07E-06	2.07E-06	1.14E-06	1.02E-07	1.48E-06	9.20E-07	9.20E-07	4.55E-07
1956	256370.33	4084163.83	1.2295E-06	1.78E-05	1.31E-05	1.31E-05	7.31E-06	1.87E-07	2.71E-06	2.05E-06	2.05E-06	1.13E-06	1.01E-07	1.47E-06	9.10E-07	9.10E-07	4.51E-07
1957	256385.63	4084122.52	1.2295E-06	1.78E-05	1.31E-05	1.31E-05	7.31E-06	1.87E-07	2.71E-06	2.05E-06	2.05E-06	1.13E-06	1.01E-07	1.47E-06	9.10E-07	9.10E-07	4.51E-07
1958	256400.92	4084081.21	1.2356E-06	1.79E-05	1.32E-05	1.32E-05	7.34E-06	1.88E-07	2.72E-06	2.06E-06	2.06E-06	1.13E-06	1.02E-07	1.47E-06	9.15E-07	9.15E-07	4.53E-07
1959	256416.22	4084039.91	1.2397E-06	1.79E-05	1.32E-05	1.32E-05	7.37E-06	1.88E-07	2.73E-06	2.06E-06	2.06E-06	1.13E-06	1.02E-07	1.48E-06	9.18E-07	9.18E-07	4.54E-07
1960	256431.51	4083998.6	1.2418E-06	1.80E-05	1.32E-05	1.32E-05	7.38E-06	1.88E-07	2.74E-06	2.07E-06	2.07E-06	1.14E-06	1.02E-07	1.48E-06	9.20E-07	9.20E-07	4.55E-07
1961	256446.81	4083957.29	1.2336E-06	1.78E-05	1.32E-05	1.32E-05	7.33E-06	1.87E-07	2.72E-06	2.05E-06	2.05E-06	1.13E-06	1.02E-07	1.47E-06	9.14E-07	9.14E-07	4.52E-07
1962	256474.45	4083927.4	1.2315E-06	1.78E-05	1.31E-05	1.31E-05	7.32E-06	1.87E-07	2.71E-06	2.05E-06	2.05E-06	1.13E-06	1.02E-07	1.47E-06	9.12E-07	9.12E-07	4.51E-07
1963	256514.44	4083908.93	1.2356E-06	1.79E-05	1.32E-05	1.32E-05	7.34E-06	1.88E-07	2.72E-06	2.06E-06	2.06E-06	1.13E-06	1.02E-07	1.47E-06	9.15E-07	9.15E-07	4.53E-07
1964	256554.43	4083890.46	1.2356E-06	1.79E-05	1.32E-05	1.32E-05	7.34E-06	1.88E-07	2.72E-06	2.06E-06	2.06E-06	1.13E-06	1.02E-07	1.47E-06	9.15E-07	9.15E-07	4.53E-07
1965	256594.41	4083871.98	1.2315E-06	1.78E-05	1.31E-05	1.31E-05	7.32E-06	1.87E-07	2.71E-06	2.05E-06	2.05E-06	1.13E-06	1.02E-07	1.47E-06	9.12E-07	9.12E-07	4.51E-07
1966	256634.4	4083853.51	1.2274E-06	1.78E-05	1.31E-05	1.31E-05	7.30E-06	1.86E-07	2.70E-06	2.04E-06	2.04E-06	1.12E-06	1.01E-07	1.46E-06	9.09E-07	9.09E-07	4.50E-07
1967	256674.39	4083835.04	1.2254E-06	1.77E-05	1.31E-05	1.31E-05	7.28E-06	1.86E-07	2.70E-06	2.04E-06	2.04E-06	1.12E-06	1.01E-07	1.46E-06	9.07E-07	9.07E-07	4.49E-07
1968	256714.37	4083816.56	1.2233E-06	1.77E-05	1.30E-05	1.30E-05	7.27E-06	1.86E-07	2.70E-06	2.04E-06	2.04E-06	1.12E-06	1.01E-07	1.46E-06	9.06E-07	9.06E-07	4.48E-07
1969	256754.36	4083798.09	1.2213E-06	1.77E-05	1.30E-05	1.30E-05	7.26E-06	1.85E-07	2.69E-06	2.03E-06	2.03E-06	1.12E-06	1.01E-07	1.46E-06	9.04E-07	9.04E-07	4.48E-07
1970	256794.35	4083779.62	1.2172E-06	1.76E-05	1.30E-05	1.30E-05	7.23E-06	1.85E-07	2.68E-06	2.03E-06	2.03E-06	1.11E-06	1.00E-07	1.45E-06	9.01E-07	9.01E-07	4.46E-07
1971	256834.33	4083761.14	1.2131E-06	1.75E-05	1.29E-05	1.29E-05	7.21E-06	1.84E-07	2.67E-06	2.02E-06	2.02E-06	1.11E-06	1.00E-07	1.45E-06	8.98E-07	8.98E-07	4.45E-07
1972	256874.32	4083742.67	0.000001211	1.75E-05	1.29E-05	1.29E-05	7.20E-06	1.84E-07	2.67E-06	2.02E-06	2.02E-06	1.11E-06	9.98E-08	1.44E-06	8.97E-07	8.97E-07	4.44E-07
1973	256914.31	4083724.2	1.2069E-06	1.75E-05	1.29E-05	1.29E-05	7.17E-06	1.83E-07	2.66E-06	2.01E-06	2.01E-06	1.10E-06	9.95E-08	1.44E-06	8.94E-07	8.94E-07	4.42E-07
1974	256954.29	4083705.72	1.2028E-06	1.74E-05	1.28E-05	1.28E-05	7.15E-06	1.83E-07	2.65E-06	2.00E-06	2.00E-06	1.10E-06	9.91E-08	1.43E-06	8.91E-07	8.91E-07	4.41E-07
1975	256994.28	4083687.25	1.1987E-06	1.73E-05	1.28E-05	1.28E-05	7.12E-06	1.82E-07	2.64E-06	2.00E-06	2.00E-06	1.10E-06	9.88E-08	1.43E-06	8.88E-07	8.88E-07	4.39E-07
1976	257034.27	4083668.78	1.1926E-06	1.72E-05	1.27E-05	1.27E-05	7.09E-06	1.81E-07	2.63E-06	1.98E-06	1.98E-06	1.09E-06	9.83E-08	1.42E-06	8.83E-07	8.83E-07	4.37E-07
1977	257074.25	4083650.3	1.1844E-06	1.71E-05	1.26E-05	1.26E-05	7.04E-06	1.80E-07	2.61E-06	1.97E-06	1.97E-06	1.08E-06	9.76E-08	1.41E-06	8.77E-07	8.77E-07	4.34E-07
1978	257114.24	4083631.83	1.1741E-06	1.70E-05	1.25E-05	1.25E-05	6.98E-06	1.78E-07	2.59E-06	1.95E-06	1.95E-06	1.07E-06	9.68E-08	1.40E-06	8.70E-07	8.70E-07	4.30E-07
1979	257154.23	4083613.36	1.1618E-06	1.68E-05	1.24E-05	1.24E-05	6.91E-06	1.76E-07	2.56E-06	1.93E-06	1.93E-06	1.06E-06	9.58E-08	1.39E-06	8.60E-07	8.60E-07	4.26E-07
1980	257194.21	4083594.88	1.1454E-06	1.66E-05	1.22E-05	1.22E-05	6.81E-06	1.74E-07	2.52E-06	1.91E-06	1.91E-06	1.05E-06	9.44E-08	1.37E-06	8.48E-07	8.48E-07	4.20E-07
1981	257234.2	4083576.41	0.000001127	1.63E-05	1.20E-05	1.20E-05	6.70E-06	1.71E-07	2.48E-06	1.88E-06	1.88E-06	1.03E-06	9.29E-08	1.34E-06	8.35E-07	8.35E-07	4.13E-07
1982	257274.19	4083557.94	1.1086E-06	1.60E-05	1.18E-05	1.18E-05	6.59E-06	1.68E-07	2.44E-06	1.85E-06	1.85E-06	1.01E-06	9.14E-08	1.32E-06	8.21E-07	8.21E-07	4.06E-07
1983	257314.18	4083539.47	1.0901E-06	1.58E-05	1.16E-05	1.16E-05	6.48E-06	1.65E-07	2.40E-06	1.81E-06	1.81E-06	9.98E-07	8.99E-08	1.30E-06	8.07E-07	8.07E-07	4.00E-07
1984	257354.16	4083520.99	1.0758E-06	1.56E-05	1.15E-05	1.15E-05	6.39E-06	1.63E-07	2.37E-06	1.79E-06	1.79E-06	9.84E-07	8.87E-08	1.28E-06	7.97E-07	7.97E-07	3.94E-07
1985	257394.15	4083502.52	1.0655E-06	1.54E-05	1.14E-05	1.14E-05	6.33E-06	1.62E-07	2.35E-06	1.77E-06	1.77E-06	9.75E-07	8.78E-08	1.27E-06	7.89E-07	7.89E-07	3.91E-07

1986	257434.14	4083484.05	1.0614E-06	1.54E-05	1.13E-05	1.13E-05	6.31E-06	1.61E-07	2.34E-06	1.77E-06	1.77E-06	9.71E-07	8.75E-08	1.27E-06	7.86E-07	7.86E-07	3.89E-07
1987	256057.58	4085032.89	0.000003504	5.07E-05	3.74E-05	3.74E-05	2.08E-05	5.32E-07	7.72E-06	5.83E-06	5.83E-06	3.21E-06	2.89E-07	4.18E-06	2.59E-06	2.59E-06	1.28E-06
1988	256059.24	4085077.45	3.6433E-06	5.27E-05	3.88E-05	3.88E-05	2.17E-05	5.53E-07	8.03E-06	6.06E-06	6.06E-06	3.33E-06	3.00E-07	4.34E-06	2.70E-06	2.70E-06	1.34E-06
1989	256060.89	4085122.02	3.7232E-06	5.39E-05	3.97E-05	3.97E-05	2.21E-05	5.65E-07	8.20E-06	6.20E-06	6.20E-06	3.41E-06	3.07E-07	4.44E-06	2.76E-06	2.76E-06	1.36E-06
1990	256062.54	4085166.58	3.7642E-06	5.44E-05	4.01E-05	4.01E-05	2.24E-05	5.71E-07	8.29E-06	6.27E-06	6.27E-06	3.44E-06	3.10E-07	4.49E-06	2.79E-06	2.79E-06	1.38E-06
1991	256064.19	4085211.14	3.7949E-06	5.49E-05	4.05E-05	4.05E-05	2.26E-05	5.76E-07	8.36E-06	6.32E-06	6.32E-06	3.47E-06	3.13E-07	4.52E-06	2.81E-06	2.81E-06	1.39E-06
1992	257564.27	4085180.58	0.00045708	6.61E-03	4.87E-03	4.87E-03	2.72E-03	6.94E-05	1.01E-03	7.61E-04	7.61E-04	4.18E-04	3.77E-05	5.45E-04	3.38E-04	3.38E-04	1.68E-04
1993	257588.55	4085179.5	0.00053894	7.79E-03	5.75E-03	5.75E-03	3.20E-03	8.18E-05	1.19E-03	8.97E-04	8.97E-04	4.93E-04	4.44E-05	6.43E-04	3.99E-04	3.99E-04	1.98E-04
1994	257612.83	4085178.42	0.00058758	8.50E-03	6.26E-03	6.26E-03	3.49E-03	8.92E-05	1.29E-03	9.78E-04	9.78E-04	5.38E-04	4.84E-05	7.01E-04	4.35E-04	4.35E-04	2.15E-04
1995	257637.11	4085177.35	0.00061762	8.93E-03	6.58E-03	6.58E-03	3.67E-03	9.37E-05	1.36E-03	1.03E-03	1.03E-03	5.65E-04	5.09E-05	7.36E-04	4.57E-04	4.57E-04	2.26E-04
1996	257661.39	4085176.27	0.0006378	9.22E-03	6.80E-03	6.80E-03	3.79E-03	9.68E-05	1.41E-03	1.06E-03	1.06E-03	5.84E-04	5.26E-05	7.60E-04	4.72E-04	4.72E-04	2.34E-04
1997	257685.68	4085175.2	0.00065199	9.43E-03	6.95E-03	6.95E-03	3.88E-03	9.90E-05	1.44E-03	1.09E-03	1.09E-03	5.97E-04	5.37E-05	7.77E-04	4.83E-04	4.83E-04	2.39E-04
1998	257709.96	4085174.12	0.00066251	9.58E-03	7.06E-03	7.06E-03	3.94E-03	1.01E-04	1.46E-03	1.10E-03	1.10E-03	6.06E-04	5.46E-05	7.90E-04	4.91E-04	4.91E-04	2.43E-04
1999	257734.24	4085173.05	0.00067021	9.69E-03	7.14E-03	7.14E-03	3.98E-03	1.02E-04	1.48E-03	1.12E-03	1.12E-03	6.13E-04	5.52E-05	7.99E-04	4.96E-04	4.96E-04	2.46E-04
2000	257758.52	4085171.97	0.00067593	9.78E-03	7.21E-03	7.21E-03	4.02E-03	1.03E-04	1.49E-03	1.13E-03	1.13E-03	6.19E-04	5.57E-05	8.06E-04	5.01E-04	5.01E-04	2.48E-04
2001	257782.8	4085170.9	0.00068006	9.84E-03	7.25E-03	7.25E-03	4.04E-03	1.03E-04	1.50E-03	1.13E-03	1.13E-03	6.22E-04	5.61E-05	8.11E-04	5.04E-04	5.04E-04	2.49E-04
2002	257807.08	4085169.82	0.00068315	9.88E-03	7.28E-03	7.28E-03	4.06E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.25E-04	5.63E-05	8.14E-04	5.06E-04	5.06E-04	2.50E-04
2003	257831.37	4085168.75	0.00068505	9.91E-03	7.30E-03	7.30E-03	4.07E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.27E-04	5.65E-05	8.17E-04	5.07E-04	5.07E-04	2.51E-04
2004	257855.65	4085167.67	0.00068636	9.93E-03	7.32E-03	7.32E-03	4.08E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.28E-04	5.66E-05	8.18E-04	5.08E-04	5.08E-04	2.52E-04
2005	257879.93	4085166.59	0.00068698	9.94E-03	7.32E-03	7.32E-03	4.08E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.29E-04	5.66E-05	8.19E-04	5.09E-04	5.09E-04	2.52E-04
2006	257904.21	4085165.52	0.00068684	9.93E-03	7.32E-03	7.32E-03	4.08E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.29E-04	5.66E-05	8.19E-04	5.09E-04	5.09E-04	2.52E-04
2007	257928.49	4085164.44	0.00068622	9.93E-03	7.32E-03	7.32E-03	4.08E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.28E-04	5.66E-05	8.18E-04	5.08E-04	5.08E-04	2.52E-04
2008	257952.78	4085163.37	0.00068491	9.91E-03	7.30E-03	7.30E-03	4.07E-03	1.04E-04	1.51E-03	1.14E-03	1.14E-03	6.27E-04	5.65E-05	8.17E-04	5.07E-04	5.07E-04	2.51E-04
2009	257977.06	4085162.29	0.0006829	9.88E-03	7.28E-03	7.28E-03	4.06E-03	1.04E-04	1.50E-03	1.14E-03	1.14E-03	6.25E-04	5.63E-05	8.14E-04	5.06E-04	5.06E-04	2.50E-04
2010	258001.34	4085161.22	0.00068031	9.84E-03	7.25E-03	7.25E-03	4.04E-03	1.03E-04	1.50E-03	1.13E-03	1.13E-03	6.23E-04	5.61E-05	8.11E-04	5.04E-04	5.04E-04	2.49E-04
2011	258025.62	4085160.14	0.00067715	9.79E-03	7.22E-03	7.22E-03	4.02E-03	1.03E-04	1.49E-03	1.13E-03	1.13E-03	6.20E-04	5.58E-05	8.07E-04	5.01E-04	5.01E-04	2.48E-04
2012	258049.9	4085159.07	0.00067313	9.74E-03	7.18E-03	7.18E-03	4.00E-03	1.02E-04	1.48E-03	1.12E-03	1.12E-03	6.16E-04	5.55E-05	8.03E-04	4.98E-04	4.98E-04	2.47E-04
2013	258074.18	4085157.99	0.00066779	9.66E-03	7.12E-03	7.12E-03	3.97E-03	1.01E-04	1.47E-03	1.11E-03	1.11E-03	6.11E-04	5.50E-05	7.96E-04	4.95E-04	4.95E-04	2.45E-04
2014	258098.47	4085156.92	0.00065038	9.41E-03	6.93E-03	6.93E-03	3.87E-03	9.87E-05	1.43E-03	1.08E-03	1.08E-03	5.95E-04	5.36E-05	7.75E-04	4.82E-04	4.82E-04	2.38E-04
2015	258122.75	4085155.84	0.00064177	9.28E-03	6.84E-03	6.84E-03	3.81E-03	9.74E-05	1.41E-03	1.07E-03	1.07E-03	5.87E-04	5.29E-05	7.65E-04	4.75E-04	4.75E-04	2.35E-04
2016	258147.03	4085154.76	0.00063172	9.14E-03	6.73E-03	6.73E-03	3.75E-03	9.59E-05	1.39E-03	1.05E-03	1.05E-03	5.78E-04	5.21E-05	7.53E-04	4.68E-04	4.68E-04	2.32E-04
2017	258171.31	4085153.69	0.00061917	8.96E-03	6.60E-03	6.60E-03	3.68E-03	9.40E-05	1.36E-03	1.03E-03	1.03E-03	5.67E-04	5.10E-05	7.38E-04	4.59E-04	4.59E-04	2.27E-04
2018	258195.59	4085152.61	0.00060295	8.72E-03	6.43E-03	6.43E-03	3.58E-03	9.15E-05	1.33E-03	1.00E-03	1.00E-03	5.52E-04	4.97E-05	7.19E-04	4.47E-04	4.47E-04	2.21E-04
2019	258219.88	4085151.54	0.00058194	8.42E-03	6.20E-03	6.20E-03	3.46E-03	8.83E-05	1.28E-03	9.69E-04	9.69E-04	5.33E-04	4.80E-05	6.94E-04	4.31E-04	4.31E-04	2.13E-04
2020	258244.16	4085150.46	0.00055467	8.02E-03	5.91E-03	5.91E-03	3.30E-03	8.42E-05	1.22E-03	9.23E-04	9.23E-04	5.08E-04	4.57E-05	6.61E-04	4.11E-04	4.11E-04	2.03E-04
2021	258268.44	4085149.39	0.0005182	7.50E-03	5.52E-03	5.52E-03	3.08E-03	7.86E-05	1.14E-03	8.63E-04	8.63E-04	4.74E-04	4.27E-05	6.18E-04	3.84E-04	3.84E-04	1.90E-04
2022	258292.72	4085148.31	0.00046847	6.78E-03	4.99E-03	4.99E-03	2.78E-03	7.11E-05	1.03E-03	7.80E-04	7.80E-04	4.29E-04	3.86E-05	5.59E-04	3.47E-04	3.47E-04	1.72E-04
2023	258317	4085147.24	0.00039997	5.79E-03	4.26E-03	4.26E-03	2.38E-03	6.07E-05	8.81E-04	6.66E-04	6.66E-04	3.66E-04	3.30E-05	4.77E-04	2.96E-04	2.96E-04	1.47E-04
2024	258341.28	4085146.16	0.00031149	4.51E-03	3.32E-03	3.32E-03	1.85E-03	4.73E-05	6.86E-04	5.18E-04	5.18E-04	2.85E-04	2.57E-05	3.71E-04	2.31E-04	2.31E-04	1.14E-04
2025	258365.57	4085145.09	0.00022417	3.24E-03	2.39E-03	2.39E-03	1.33E-03	3.40E-05	4.94E-04	3.73E-04	3.73E-04	2.05E-04	1.85E-05	2.67E-04	1.66E-04	1.66E-04	8.22E-05
2026	257547.32	4085198.96	0.00031652	4.58E-03	3.37E-03	3.37E-03	1.88E-03	4.80E-05	6.97E-04	5.27E-04	5.27E-04	2.90E-04	2.61E-05	3.77E-04	2.34E-04	2.34E-04	1.16E-04
2027	257589.65	4085204.48	0.0003681	5.32E-03	3.92E-03	3.92E-03	2.19E-03	5.59E-05	8.11E-04	6.13E-04	6.13E-04	3.37E-04	3.03E-05	4.39E-04	2.73E-04	2.73E-04	1.35E-04
2028	257613.94	4085203.4	0.0003955	5.72E-03	4.22E-03	4.22E-03	2.35E-03	6.00E-05	8.71E-04	6.58E-04	6.58E-04	3.62E-04	3.26E-05	4.72E-04	2.93E-04	2.93E-04	1.45E-04
2029	257638.22	4085202.32	0.00041478	6.00E-03	4.42E-03	4.42E-03	2.47E-03	6.30E-05	9.14E-04	6.90E-04	6.90E-04	3.80E-04	3.42E-05	4.95E-04	3.07E-04	3.07E-04	1.52E-04
2030	257662.5	4085201.25	0.00042864	6.20E-03	4.57E-03	4.57E-03	2.55E-03	6.51E-05	9.44E-04	7.13E-04	7.13E-04	3.92E-04	3.53E-05	5.11E-04	3.17E-04	3.17E-04	1.57E-04
2031	257686.78	4085200.17	0.00043901	6.35E-03	4.68E-03	4.68E-03	2.61E-03	6.66E-05	9.67E-04	7.31E-04	7.31E-04	4.02E-04	3.62E-05	5.23E-04	3.25E-04	3.25E-04	1.61E-04
2032	257711.06	4085199.1	0.00044683	6.46E-03	4.76E-03	4.76E-03	2.66E-03	6.78E-05	9.85E-04	7.44E-04	7.44E-04	4.09E-04	3.68E-05	5.33E-04	3.31E-04	3.31E-04	1.64E-04
2033	257735.35	4085198.02	0.00045289	6.55E-03	4.83E-03	4.83E-03	2.69E-03	6.87E-05	9.98E-04	7.54E-04	7.54E-04	4.14E-04	3.73E-05	5.40E-04	3.35E-04	3.35E-04	1.66E-04
2034	257759.63	4085196.95	0.00045751	6.62E-03	4.88E-03	4.88E-03	2.72E-03	6.94E-05	1.01E-03	7.62E-04	7.62E-04	4.19E-04	3.77E-05	5.45E-04	3.39E-04	3.39E-04	1.68E-04
2035	257783.91	4085195.87	0.0004611	6.67E-03	4.92E-03	4.92E-03	2.74E-03	7.00E-05	1.02E-03	7.68E-04	7.68E-04	4.22E-04	3.80E-05	5.50E-04	3.41E-04	3.41E-04	1.69E-04
2036	257808.19	4085194.8	0.00046373	6.71E-03	4.94E-03	4.94E-03	2.76E-03	7.04E-05	1.02E-03	7.72E-04	7.72E-04	4.24E-04	3.82E-05	5.53E-04	3.43E-04	3.43E-04	1.70E-04
2037	257832.47	4085193.72	0.00046567	6.74E-03	4.96E-03	4.96E-03	2.77E-03	7.07E-05	1.03E-03	7.75E-04	7.75E-04	4.26E-04	3.84E-05	5.55E-04	3.45E-04	3.45E-04	1.71E-04
2038	257856.75	4085192.65	0.00046686	6.75E-03	4.98E-03	4.98E-03	2.77E-03	7.09E-05	1.03E-03	7.77E-04	7.77E-04	4.27E-04	3.85E-05	5.57E-04	3.46E-04	3.46E-04	1.71E-04
2039	257881.04	4085191.57	0.00046748	6.76E-03	4.98E-03	4.98E-03	2.78E-03	7.09E-05	1.03E-03	7.78E-04	7.78E-04	4.28E-04	3.85E-05	5.57E-04	3.46E-04	3.46E-04	1.71E-04
2040	257905.32	4085190.49	0.00046749	6.76E-03	4.98E-03	4.98E-03	2.78E-03	7.10E-05	1.03E-03	7.78E-04	7.78E-04	4.28E-04	3.85E-05	5.57E-04	3.46E-04	3.46E-04	1.71E-04
2041	257929.6	4085189.42	0.00046682	6.75E-03	4.98E-03	4.98E-03	2.77E-03	7.08E-05	1.03E-03	7.77E-04	7.77E-04	4.27E-04	3.85E-05	5.57E-04	3.46E-04	3.46E-04	1.71E-04
2042	257953.88	4085188.34	0.00046562	6.73E-03	4.96E-03	4.96E-03	2.77E-03	7.07E-05	1.03E-03	7.75E-04	7.75E-04	4.26E-04	3.84E-05	5.55E-04	3.45E-04	3.45E-04	1.71E-04
2043	257978.16	4085187.27	0.00045802	6.62E-03	4.88E-03	4.88E-03	2.72E-03	6.95E-05	1.01E-03	7.62E-04	7.62E-04	4.19E-04	3.78E-05	5.46E-04	3.39E-04	3.39E-04	1.68E-04
2044	258002.45	4085186.19	0.00045541	6.59E-03	4.85E-03	4.85E-03	2.71E-03	6.91E-05	1.00E-03	7.58E-04	7.58E-04	4.17E-04	3.75E-05	5.43E-04	3.37E-04	3.37E-04	1.67E-04
2045	258026.73	4085185.12	0.00045211	6.54E-03	4.82E-03	4.82E-03	2.69E-03	6.86E-05	9.96E-04	7.53E-04	7.53E-04	4.14E-04	3.73E-05	5.39E-04	3.35E-04	3.35E-04	1.66E-04
2046	258051.01	4085184.04	0.00044796	6.48E-03	4.78E-03	4.78E-03	2.66E-03	6.80E-05	9.87E-04	7.46E-04	7.46E-04	4.10E-04	3.69E-05	5.34E-04	3.32E-04	3.32E-04	1.64E-04
2047	258075.29	4085182.97	0.0004427	6.40E-03	4.72E-03	4.72E-03	2.63E-03	6.72E-05	9.75E-04	7.37E-04	7.37E-04	4.05E-04	3.65E-05	5.28E-04	3.28E-04	3.28E-04	1.62E-04
2048	258099.57	4085181.89	0.00043624	6.31E-03	4.65E-03	4.65E-03	2.59E-03	6.62E-05	9.61E-04	7.26E-04	7.26E-04	3.99E-04	3.60E-05	5.20E-04	3.23E-04	3.23E-04	1.60E-04
2049	258123.85	4085180.82	0.0004282	6.19E-03	4.56E-03	4.56E-03	2.54E-03	6.50E-05	9.44E-04	7.13E-04	7.13E-04	3.92E-04	3.53E-05	5.11E-04	3.17E-04	3.17E-04	1.57E-04
2050	258148.14	4085179.74	0.00041836	6.05E-03	4.46E-03	4.46E-03	2.49E-03	6.35E-05	9.22E-04	6.96E-04	6.96E-04	3.83E-04	3.45E-05	4.99E-04	3.10E-04	3.10E-04	1.53E-04
2051	258172.42	4085178.66	0.0004062	5.88E-03	4.33E-03	4.33E-03	2.41E-03	6.16E-05	8.95E-04	6.76E-04	6.76E-04	3.72E-04	3.35E-05	4.84E-04	3.01E-04	3.01E-04	1.49E-04
2052	258196.7	4085177.59	0.00039103	5.66E-03	4.17E-03	4.17E-03	2.32E-03	5.93E-05	8.62E-04	6.51E-04	6.51E-04	3.58E-04	3.22E-05	4.66E-04	2.90E-04	2.90E-04	1.43E-04
2053	258220.98	4085176.51	0.00037216	5.38E-03	3.97E-03	3.97E-03	2.21E-03	5.65E-05	8.20E-04	6.19E-04	6.19E-04	3.41E-04	3.07E-05	4.44E-04	2.76E-04	2.76E-04	1.36E-04
2054	258245.26	4085175.44	0.00034845	5.04E-03	3.71E-03	3.71E-03	2.07E-03	5.29E-05	7.68E-04	5.80E-04	5.80E-04	3.19E-04	2.87E-05	4.15E-04	2.58E-04	2.58E-04	1.28E-04
2055	258269.55	4085174.36	0.00031901	4.61E-03	3.40E-03	3.40E-03	1.90E-03	4.84E-05	7.03E-04	5.31E-04	5.31E-04	2.92E-04	2.63E-05	3.80E-04	2.36E-04	2.36E-04	1.17E-04
2056	258293.83	4085173.29	0.00028294	4.09E-03	3.02E-03	3.02E-03	1.68E-03	4.29E-05	6.23E-04	4.71E-04	4.71E-04	2.59E-04	2.33E-05	3.37E-04	2.10E-04	2.10E-04	1.04E-04
2057	258318.11	4085172.21	0.00024053	3.48E-03	2.56E-03	2.56E-03	1.43E-03	3.65E-05	5.30E-04	4.00E-04	4.00E-04	2.20E-04	1.98E-05	2.87E-04	1.78E-04	1.78E-04	8.82E-05
2058	258342.39	4085171.14	0.00019516	2.82E-03	2.08E-03	2.08E-03	1.16E-03	2.96E-05	4.30E-04	3.25E-04	3.25E-04	1.79E-04	1.61E-05	2.33E-04	1.45E-04	1.45E-04	7.15E-05
2059	257548.43	4085223.93	0.00025224	3.65E-03	2.69E-03	2.69E-03	1.50E-03	3.83E-05	5.56E-04	4.20E-04	4.20E-04	2.31E-04	2.08E-05	3.01E-04	1.87E-04	1.87E-04	9.25E-05
2060	257504.29	4085193.29	0.0002261	3.27E-03	2.41E-03	2.41E-03	1.34E-03	3.43E-05	4.98E-04	3.76E-04	3.76E-04	2.07E-04	1.86E-05	2.70E-04	1.67E-04	1.67E-04	8.29E-05
2061	257590.76	4085229.45	0.00027997	4.05E-03	2.98E-03	2.98E-03	1.66E-03	4.25E-05	6.17E-04	4.66E-04	4.66E-04	2.56E-04	2.31E-05	3.34E-04	2.07E-04	2.07E-04	1.03E-04
2062	257615.04	4085228.38	0.00029741	4.30E-03	3.17E-03	3.17E-03	1.77E-03	4.51E-05	6.55E-04	4.95E-04	4.95E-04	2.72E-04	2.45E-05	3.55E-04	2.20E-04	2.20E-04	1.09E-04
2063	257639.32	4085227.3	0.00031076	4.49E-03	3.31E-03	3.31E-03	1.85E-03	4.72E-05	6.85E-04	5.17E-04	5.17E-04	2.84E-04	2.56E-05	3.70E-04	2.30E-04	2.30E-04	1.14E-04
2064	257663.61	4085226.22	0.00032091	4.64E-03	3.42E-03	3.42E-03	1.91E-03	4.87E-05	7.07E-04	5.34E-04	5.34E-04	2.94E-04	2.65E-05	3.83E-04	2.38E-04	2.38E-04	1.18E-04
2065	257687.89	4085225.15	0.00032867	4.75E-03	3.50E-03	3.50E-03	1.95E-03	4.99E-05	7.24E-04	5.47E-04	5.47E-04	3.01E-04	2.71E-05	3.92E-04	2.43E-04	2.43E-04	1.20E-04
2066	257712.17	4085224.07	0.00033469	4.84E-03	3.57E-03	3.57E-03	1.99E-03	5.08E-05	7.37E-04	5.57E-04	5.57E-04	3.06E-04	2.76E-05	3.99E-04	2.48E-04	2.48E-04	1.23E-04
2067	257736.45	4085223	0.00033933	4.91E-03	3.62E-03	3.62E-03	2.02E-03	5.15E-05	7.48E-04	5.65E-04	5.65E-04	3.11E-04	2.80E-05	4.05E-04	2.51E-04	2.51E-04	1.24E-04
2068	257760.73	4085221.92	0.00034296	4.96E-03	3.66E-03	3.66E-03	2.04E-03	5.21E-05	7.56E-04	5.71E-04	5.71E-04	3.14E-04	2.83E-05	4.09E-04	2.54E-04	2.54E-04	1.26E-04
2069	257785.01	4085220.85	0.0003457	5.00E-03	3.69E-03	3.69E-03	2.05E-03	5.25E-05	7.62E-04	5.75E-04	5.75E-04	3.16E-04	2.85E-05	4.12E-04	2.56E-04	2.56E-04	1.27E-04
2070	257809.3	4085219.77	0.00034775	5.03E-03	3.71E-03	3.71E-03	2.07E-03	5.28E-05	7.66E-04	5.79E-04	5.79E-04	3.18E-04	2.87E-05	4.15E-04	2.58E-04	2.58E-04	1.27E-04
2071	257833.58	4085218.7	0.00034913	5.05E-03	3.72E-03	3.72E-03	2.07E-03	5.30E-05	7.69E-04	5.81E-04	5.81E-04	3.19E-04	2.88E-05	4.16E-04	2.59E-04	2.59E-04	1.28E-04
2072	257857.86	4085217.62	0.00034998	5.06E-03	3.73E-03	3.73E-03	2.08E-03	5.31E-05	7.71E-04	5.83E-04	5.83E-04	3.20E-04	2.88E-05	4.17E-04	2.59E-04	2.59E-04	1.28E-04
2073	257882.14	4085216.55	0.00035024	5.07E-03	3.73E-03	3.73E-03	2.08E-03	5.32E-05	7.72E-04	5.83E-04	5.83E-04	3.21E-04	2.89E-05	4.18E-04	2.59E-04	2.59E-04	1.28E-04
2074	257906.42	4085215.47	0.00034867	5.04E-03	3.72E-03	3.72E-03	2.07E-03	5.29E-05	7.68E-04	5.80E-04	5.80E-04	3.19E-04	2.87E-05	4.16E-04	2.58E-04	2.58E-04	1.28E-04
2075	257930.71	4085214.39	0.00034548	5.00E-03	3.68E-03	3.68E-03	2.05E-03	5.24E-05	7.61E-04	5.75E-04	5.75E-04	3.16E-04	2.85E-05	4.12E-04	2.56E-04	2.56E-04	1.27E-04
2076	257954.99	4085213.32	0.00034407	4.98E-03	3.67E-03	3.67E-03	2.04E-03	5.22E-05	7.58E-04	5.73E-04	5.73E-04	3.15E-04	2.84E-05	4.10E-04	2.55E-04	2.55E-04	1.26E-04
2077	257979.27	4085212.24	0.00034208	4.95E-03	3.65E-03	3.65E-03	2.03E-03	5.19E-05	7.54E-04	5.69E-04	5.69E-04	3.13E-04	2.82E-05	4.08E-04	2.53E-04	2.53E-04	1.25E-04
2078	258003.55	4085211.17	0.00033939	4.91E-03	3.62E-03	3.62E-03	2.02E-03	5.15E-05	7.48E-04	5.65E-04	5.65E-04	3.11E-04	2.80E-05	4.05E-04	2.51E-04	2.51E-04	1.24E-04
2079	258027.83	4085210.09	0.00033596	4.86E-03	3.58E-03	3.58E-03	2.00E-03	5.10E-05	7.40E-04	5.59E-04	5.59E-04	3.07E-04	2.77E-05	4.01E-04	2.49E-04	2.49E-04	1.23E-04
2080	258052.11	4085209.02	0.00033165	4.80E-03	3.54E-03	3.54E-03	1.97E-03	5.03E-05	7.31E-04	5.52E-04	5.52E-04	3.03E-04	2.73E-05	3.95E-04	2.46E-04	2.46E-04	1.22E-04
2081	258076.4	4085207.94	0.00032638	4.72E-03	3.48E-03	3.48E-03	1.94E-03	4.95E-05	7.19E-04	5.43E-04	5.43E-04	2.99E-04	2.69E-05	3.89E-04	2.42E-04	2.42E-04	1.20E-04
2082	258100.68	4085206.87	0.00031993	4.63E-03	3.41E-03	3.41E-03	1.90E-03	4.86E-05	7.05E-04	5.33E-04	5.33E-04	2.93E-04	2.64E-05	3.81E-04	2.37E-04	2.37E-04	1.17E-04
2083	258124.96	4085205.79	0.00031217	4.52E-03	3.33E-03	3.33E-03	1.86E-03	4.74E-05	6.88E-04	5.20E-04	5.20E-04	2.86E-04	2.57E-05	3.72E-04	2.31E-04	2.31E-04	1.14E-04
2084	258149.24	4085204.72	0.00030279	4.38E-03	3.23E-03	3.23E-03	1.80E-03	4.60E-05	6.67E-04	5.04E-04	5.04E-04	2.77E-04	2.50E-05	3.61E-04	2.24E-04	2.24E-04	1.11E-04
2085	258173.52	4085203.64	0.00029153	4.22E-03	3.11E-03	3.11E-03	1.73E-03	4.42E-05	6.42E-04	4.85E-04	4.85E-04	2.67E-04	2.40E-05	3.48E-04	2.16E-04	2.16E-04	1.07E-04
2086	258197.81	4085202.56	0.00027796	4.02E-03	2.96E-03	2.96E-03	1.65E-03	4.22E-05	6.12E-04	4.63E-04	4.63E-04	2.54E-04	2.29E-05	3.31E-04	2.06E-04	2.06E-04	1.02E-04
2087	258222.09	4085201.49	0.00026167	3.78E-03	2.79E-03	2.79E-03	1.56E-03	3.97E-05	5.77E-04	4.36E-04	4.36E-04	2.39E-04	2.16E-05	3.12E-04	1.94E-04	1.94E-04	9.59E-05
2088	258246.37	4085200.41	0.0002424	3.51E-03	2.58E-03	2.58E-03	1.44E-03	3.68E-05	5.34E-04	4.03E-04	4.03E-04	2.22E-04	2.00E-05	2.89E-04	1.80E-04	1.80E-04	8.89E-05
2089	258270.65	4085199.34	0.00021997	3.18E-03	2.34E-03	2.34E-03	1.31E-03	3.34E-05	4.85E-04	3.66E-04	3.66E-04	2.01E-04	1.81E-05	2.62E-04	1.63E-04	1.63E-04	8.06E-05
2090	258294.93	4085198.26	0.00019465	2.82E-03	2.08E-03	2.08E-03	1.16E-03	2.95E-05	4.29E-04	3.24E-04	3.24E-04	1.78E-04	1.60E-05	2.32E-04	1.44E-04	1.44E-04	7.14E-05
2091	258319.21	4085197.19	0.0001675	2.42E-03	1.79E-03	1.79E-03	9.96E-04	2.54E-05	3.69E-04	2.79E-04	2.79E-04	1.53E-04	1.38E-05	2.00E-04	1.24E-04	1.24E-04	6.14E-05
2092	258343.5	4085196.11	0.00014064	2.03E-03	1.50E-03	1.50E-03	8.36E-04	2.13E-05	3.10E-04	2.34E-04	2.34E-04	1.29E-04	1.16E-05	1.68E-04	1.04E-04	1.04E-04	5.16E-05
2093	258367.78	4085195.04	0.00011662	1.69E-03	1.24E-03	1.24E-03	6.93E-04	1.77E-05	2.57E-04	1.94E-04	1.94E-04	1.07E-04	9.61E-06	1.39E-04	8.64E-05	8.64E-05	4.27E-05
2094	257549.53	4085248.91	0.00020818	3.01E-03	2.22E-03	2.22E-03	1.24E-03	3.16E-05	4.59E-04	3.47E-04	3.47E-04	1.91E-04	1.72E-05	2.48E-04	1.54E-04	1.54E-04	7.63E-05
2095	257513.43	4085235.72	0.00019234	2.78E-03	2.05E-03	2.05E-03	1.14E-03	2.92E-05	4.24E-04	3.20E-04	3.20E-04	1.76E-04	1.59E-05	2.29E-04	1.42E-04	1.42E-04	7.05E-05
2096	257487.34	4085211.67	0.00018185	2.63E-03	1.94E-03	1.94E-03	1.08E-03	2.76E-05	4.01E-04	3.03E-04	3.03E-04	1.66E-04	1.50E-05	2.17E-04	1.35E-04	1.35E-04	6.67E-05
2097	257471.27	4085176.76	0.00016959	2.45E-03	1.81E-03	1.81E-03	1.01E-03	2.57E-05	3.74E-04	2.82E-04	2.82E-04	1.55E-04	1.40E-05	2.02E-04	1.26E-04	1.26E-04	6.22E-05
2098	257591.87	4085254.43	0.00022547	3.26E-03	2.40E-03	2.40E-03	1.34E-03	3.42E-05	4.97E-04	3.75E-04	3.75E-04	2.06E-04	1.86E-05	2.69E-04	1.67E-04	1.67E-04	8.27E-05
2099	257616.15	4085253.35	0.00023747	3.43E-03	2.53E-03	2.53E-03	1.41E-03	3.60E-05	5.23E-04	3.95E-04	3.95E-04	2.17E-04	1.96E-05	2.83E-04	1.76E-04	1.76E-04	8.71E-05
2100	257640.43	4085252.28	0.00024707	3.57E-03	2.63E-03	2.63E-03	1.47E-03	3.75E-05	5.44E-04	4.11E-04	4.11E-04	2.26E-04	2.04E-05	2.95E-04	1.83E-04	1.83E-04	9.06E-05
2101	257664.71	4085251.2	0.0002547	3.68E-03	2.72E-03	2.72E-03	1.51E-03	3.87E-05	5.61E-04	4.24E-04	4.24E-04	2.33E-04	2.10E-05	3.04E-04	1.89E-04	1.89E-04	9.34E-05
2102	257688.99	4085250.12	0.00026072	3.77E-03	2.78E-03	2.78E-03	1.55E-03	3.96E-05	5.74E-04	4.34E-04	4.34E-04	2.39E-04	2.15E-05	3.11E-04	1.93E-04	1.93E-04	9.56E-05

2103	257713.28	4085249.05	0.00026539	3.84E-03	2.83E-03	2.83E-03	1.58E-03	4.03E-05	5.85E-04	4.42E-04	4.42E-04	2.43E-04	2.19E-05	3.16E-04	1.97E-04	1.97E-04	9.73E-05
2104	257737.56	4085247.97	0.00026904	3.89E-03	2.87E-03	2.87E-03	1.60E-03	4.08E-05	5.93E-04	4.48E-04	4.48E-04	2.46E-04	2.22E-05	3.21E-04	1.99E-04	1.99E-04	9.86E-05
2105	257761.84	4085246.9	0.00027181	3.93E-03	2.90E-03	2.90E-03	1.62E-03	4.13E-05	5.99E-04	4.52E-04	4.52E-04	2.49E-04	2.24E-05	3.24E-04	2.01E-04	2.01E-04	9.96E-05
2106	257786.12	4085245.82	0.00027391	3.96E-03	2.92E-03	2.92E-03	1.63E-03	4.16E-05	6.04E-04	4.56E-04	4.56E-04	2.51E-04	2.26E-05	3.27E-04	2.03E-04	2.03E-04	1.00E-04
2107	257810.4	4085244.75	0.00027538	3.98E-03	2.94E-03	2.94E-03	1.64E-03	4.18E-05	6.07E-04	4.58E-04	4.58E-04	2.52E-04	2.27E-05	3.28E-04	2.04E-04	2.04E-04	1.01E-04
2108	257834.68	4085243.67	0.00027631	4.00E-03	2.95E-03	2.95E-03	1.64E-03	4.19E-05	6.09E-04	4.60E-04	4.60E-04	2.53E-04	2.28E-05	3.29E-04	2.05E-04	2.05E-04	1.01E-04
2109	257858.97	4085242.6	0.00027671	4.00E-03	2.95E-03	2.95E-03	1.64E-03	4.20E-05	6.10E-04	4.61E-04	4.61E-04	2.53E-04	2.28E-05	3.30E-04	2.05E-04	2.05E-04	1.01E-04
2110	257883.25	4085241.52	0.00027484	3.98E-03	2.93E-03	2.93E-03	1.63E-03	4.17E-05	6.06E-04	4.57E-04	4.57E-04	2.52E-04	2.27E-05	3.28E-04	2.04E-04	2.04E-04	1.01E-04
2111	257907.53	4085240.45	0.00027336	3.95E-03	2.91E-03	2.91E-03	1.62E-03	4.15E-05	6.02E-04	4.55E-04	4.55E-04	2.50E-04	2.25E-05	3.26E-04	2.02E-04	2.02E-04	1.00E-04
2112	257931.81	4085239.37	0.00027226	3.94E-03	2.90E-03	2.90E-03	1.62E-03	4.13E-05	6.00E-04	4.53E-04	4.53E-04	2.49E-04	2.24E-05	3.25E-04	2.02E-04	2.02E-04	9.98E-05
2113	257956.09	4085238.29	0.00027063	3.91E-03	2.89E-03	2.89E-03	1.61E-03	4.11E-05	5.96E-04	4.50E-04	4.50E-04	2.48E-04	2.23E-05	3.23E-04	2.00E-04	2.00E-04	9.92E-05
2114	257980.38	4085237.22	0.00026838	3.88E-03	2.86E-03	2.86E-03	1.60E-03	4.07E-05	5.91E-04	4.47E-04	4.47E-04	2.46E-04	2.21E-05	3.20E-04	1.99E-04	1.99E-04	9.84E-05
2115	258004.66	4085236.14	0.00026554	3.84E-03	2.83E-03	2.83E-03	1.58E-03	4.03E-05	5.85E-04	4.42E-04	4.42E-04	2.43E-04	2.19E-05	3.17E-04	1.97E-04	1.97E-04	9.73E-05
2116	258028.94	4085235.07	0.00026197	3.79E-03	2.79E-03	2.79E-03	1.56E-03	3.98E-05	5.77E-04	4.36E-04	4.36E-04	2.40E-04	2.16E-05	3.12E-04	1.94E-04	1.94E-04	9.60E-05
2117	258053.22	4085233.99	0.00025765	3.73E-03	2.75E-03	2.75E-03	1.53E-03	3.91E-05	5.68E-04	4.29E-04	4.29E-04	2.36E-04	2.12E-05	3.07E-04	1.91E-04	1.91E-04	9.44E-05
2118	258077.5	4085232.92	0.00025244	3.65E-03	2.69E-03	2.69E-03	1.50E-03	3.83E-05	5.56E-04	4.20E-04	4.20E-04	2.31E-04	2.08E-05	3.01E-04	1.87E-04	1.87E-04	9.25E-05
2119	258101.78	4085231.84	0.00024627	3.56E-03	2.63E-03	2.63E-03	1.46E-03	3.74E-05	5.43E-04	4.10E-04	4.10E-04	2.25E-04	2.03E-05	2.94E-04	1.82E-04	1.82E-04	9.03E-05
2120	258126.07	4085230.77	0.00023895	3.46E-03	2.55E-03	2.55E-03	1.42E-03	3.63E-05	5.27E-04	3.98E-04	3.98E-04	2.19E-04	1.97E-05	2.85E-04	1.77E-04	1.77E-04	8.76E-05
2121	258150.35	4085229.69	0.00023037	3.33E-03	2.46E-03	2.46E-03	1.37E-03	3.50E-05	5.08E-04	3.83E-04	3.83E-04	2.11E-04	1.90E-05	2.75E-04	1.71E-04	1.71E-04	8.44E-05
2122	258174.63	4085228.62	0.0002203	3.19E-03	2.35E-03	2.35E-03	1.31E-03	3.34E-05	4.85E-04	3.67E-04	3.67E-04	2.02E-04	1.82E-05	2.63E-04	1.63E-04	1.63E-04	8.08E-05
2123	258198.91	4085227.54	0.00020861	3.02E-03	2.22E-03	2.22E-03	1.24E-03	3.17E-05	4.60E-04	3.47E-04	3.47E-04	1.91E-04	1.72E-05	2.49E-04	1.54E-04	1.54E-04	7.65E-05
2124	258223.19	4085226.46	0.00019513	2.82E-03	2.08E-03	2.08E-03	1.16E-03	2.96E-05	4.30E-04	3.25E-04	3.25E-04	1.79E-04	1.61E-05	2.33E-04	1.45E-04	1.45E-04	7.15E-05
2125	258247.48	4085225.39	0.00017984	2.60E-03	1.92E-03	1.92E-03	1.07E-03	2.73E-05	3.96E-04	2.99E-04	2.99E-04	1.65E-04	1.48E-05	2.14E-04	1.33E-04	1.33E-04	6.59E-05
2126	258271.76	4085224.31	0.00016294	2.36E-03	1.74E-03	1.74E-03	9.68E-04	2.47E-05	3.59E-04	2.71E-04	2.71E-04	1.49E-04	1.34E-05	1.94E-04	1.21E-04	1.21E-04	5.97E-05
2127	258296.04	4085223.24	0.00014485	2.10E-03	1.54E-03	1.54E-03	8.61E-04	2.20E-05	3.19E-04	2.41E-04	2.41E-04	1.33E-04	1.19E-05	1.73E-04	1.07E-04	1.07E-04	5.31E-05
2128	258320.32	4085222.16	0.00012653	1.83E-03	1.35E-03	1.35E-03	7.52E-04	1.92E-05	2.79E-04	2.11E-04	2.11E-04	1.16E-04	1.04E-05	1.51E-04	9.37E-05	9.37E-05	4.64E-05
2129	258344.6	4085221.09	0.00010885	1.57E-03	1.16E-03	1.16E-03	6.47E-04	1.65E-05	2.40E-04	1.81E-04	1.81E-04	9.96E-05	8.97E-06	1.30E-04	8.06E-05	8.06E-05	3.99E-05
2130	257548.14	4085297.54	0.00015205	2.20E-03	1.62E-03	1.62E-03	9.04E-04	2.31E-05	3.35E-04	2.53E-04	2.53E-04	1.39E-04	1.25E-05	1.81E-04	1.13E-04	1.13E-04	5.57E-05
2131	257526.47	4085289.63	0.00014934	2.16E-03	1.59E-03	1.59E-03	8.88E-04	2.27E-05	3.29E-04	2.49E-04	2.49E-04	1.37E-04	1.23E-05	1.78E-04	1.11E-04	1.11E-04	5.47E-05
2132	257504.81	4085281.71	0.00014439	2.09E-03	1.54E-03	1.54E-03	8.58E-04	2.19E-05	3.18E-04	2.40E-04	2.40E-04	1.32E-04	1.19E-05	1.72E-04	1.07E-04	1.07E-04	5.29E-05
2133	257483.15	4085273.8	0.00013693	1.98E-03	1.46E-03	1.46E-03	8.14E-04	2.08E-05	3.02E-04	2.28E-04	2.28E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.02E-05
2134	257451.85	4085244.94	0.00012876	1.86E-03	1.37E-03	1.37E-03	7.65E-04	1.95E-05	2.84E-04	2.14E-04	2.14E-04	1.18E-04	1.06E-05	1.54E-04	9.54E-05	9.54E-05	4.72E-05
2135	257442.2	4085223.99	0.00012635	1.83E-03	1.35E-03	1.35E-03	7.51E-04	1.92E-05	2.78E-04	2.10E-04	2.10E-04	1.16E-04	1.04E-05	1.51E-04	9.36E-05	9.36E-05	4.63E-05
2136	257432.55	4085203.05	0.0001196	1.73E-03	1.28E-03	1.28E-03	7.11E-04	1.82E-05	2.64E-04	1.99E-04	1.99E-04	1.09E-04	9.86E-06	1.43E-04	8.86E-05	8.86E-05	4.38E-05
2137	257422.91	4085182.1	0.00010959	1.59E-03	1.17E-03	1.17E-03	6.51E-04	1.66E-05	2.41E-04	1.82E-04	1.82E-04	1.00E-04	9.03E-06	1.31E-04	8.12E-05	8.12E-05	4.02E-05
2138	257569.8	4085305.45	0.00015273	2.21E-03	1.63E-03	1.63E-03	9.08E-04	2.32E-05	3.37E-04	2.54E-04	2.54E-04	1.40E-04	1.26E-05	1.82E-04	1.13E-04	1.13E-04	5.60E-05
2139	257594.08	4085304.38	0.00016053	2.32E-03	1.71E-03	1.71E-03	9.54E-04	2.44E-05	3.54E-04	2.67E-04	2.67E-04	1.47E-04	1.32E-05	1.91E-04	1.19E-04	1.19E-04	5.88E-05
2140	257618.36	4085303.3	0.00016701	2.42E-03	1.78E-03	1.78E-03	9.93E-04	2.53E-05	3.68E-04	2.78E-04	2.78E-04	1.53E-04	1.38E-05	1.99E-04	1.24E-04	1.24E-04	6.12E-05
2141	257642.64	4085302.23	0.00017237	2.49E-03	1.84E-03	1.84E-03	1.02E-03	2.62E-05	3.80E-04	2.87E-04	2.87E-04	1.58E-04	1.42E-05	2.06E-04	1.28E-04	1.28E-04	6.32E-05
2142	257666.92	4085301.15	0.00017685	2.56E-03	1.89E-03	1.89E-03	1.05E-03	2.68E-05	3.90E-04	2.94E-04	2.94E-04	1.62E-04	1.46E-05	2.11E-04	1.31E-04	1.31E-04	6.48E-05
2143	257691.21	4085300.08	0.0001805	2.61E-03	1.92E-03	1.92E-03	1.07E-03	2.74E-05	3.98E-04	3.00E-04	3.00E-04	1.65E-04	1.49E-05	2.15E-04	1.34E-04	1.34E-04	6.62E-05
2144	257715.49	4085299	0.00018339	2.65E-03	1.96E-03	1.96E-03	1.09E-03	2.78E-05	4.04E-04	3.05E-04	3.05E-04	1.68E-04	1.51E-05	2.19E-04	1.36E-04	1.36E-04	6.72E-05
2145	257739.77	4085297.92	0.00018557	2.68E-03	1.98E-03	1.98E-03	1.10E-03	2.82E-05	4.09E-04	3.09E-04	3.09E-04	1.70E-04	1.53E-05	2.21E-04	1.37E-04	1.37E-04	6.80E-05
2146	257764.05	4085296.85	0.00018712	2.71E-03	1.99E-03	1.99E-03	1.11E-03	2.84E-05	4.12E-04	3.11E-04	3.11E-04	1.71E-04	1.54E-05	2.23E-04	1.39E-04	1.39E-04	6.86E-05
2147	257788.33	4085295.77	0.00018791	2.72E-03	2.00E-03	2.00E-03	1.12E-03	2.85E-05	4.14E-04	3.13E-04	3.13E-04	1.72E-04	1.55E-05	2.24E-04	1.39E-04	1.39E-04	6.89E-05
2148	257812.62	4085294.7	0.00018764	2.71E-03	2.00E-03	2.00E-03	1.12E-03	2.85E-05	4.13E-04	3.12E-04	3.12E-04	1.72E-04	1.55E-05	2.24E-04	1.39E-04	1.39E-04	6.88E-05
2149	257836.9	4085293.62	0.00018768	2.71E-03	2.00E-03	2.00E-03	1.12E-03	2.85E-05	4.14E-04	3.12E-04	3.12E-04	1.72E-04	1.55E-05	2.24E-04	1.39E-04	1.39E-04	6.88E-05
2150	257861.18	4085292.55	0.0001869	2.70E-03	1.99E-03	1.99E-03	1.11E-03	2.84E-05	4.12E-04	3.11E-04	3.11E-04	1.71E-04	1.54E-05	2.23E-04	1.38E-04	1.38E-04	6.85E-05
2151	257885.46	4085291.47	0.00018618	2.69E-03	1.98E-03	1.98E-03	1.11E-03	2.83E-05	4.10E-04	3.10E-04	3.10E-04	1.70E-04	1.53E-05	2.22E-04	1.38E-04	1.38E-04	6.82E-05
2152	257909.74	4085290.4	0.00018503	2.68E-03	1.97E-03	1.97E-03	1.10E-03	2.81E-05	4.08E-04	3.08E-04	3.08E-04	1.69E-04	1.53E-05	2.21E-04	1.37E-04	1.37E-04	6.78E-05
2153	257934.02	4085289.32	0.00018346	2.65E-03	1.96E-03	1.96E-03	1.09E-03	2.78E-05	4.04E-04	3.05E-04	3.05E-04	1.68E-04	1.51E-05	2.19E-04	1.36E-04	1.36E-04	6.73E-05
2154	257958.31	4085288.25	0.00018145	2.62E-03	1.93E-03	1.93E-03	1.08E-03	2.75E-05	4.00E-04	3.02E-04	3.02E-04	1.66E-04	1.50E-05	2.16E-04	1.34E-04	1.34E-04	6.65E-05
2155	257982.59	4085287.17	0.00017899	2.59E-03	1.91E-03	1.91E-03	1.06E-03	2.72E-05	3.94E-04	2.98E-04	2.98E-04	1.64E-04	1.48E-05	2.13E-04	1.33E-04	1.33E-04	6.56E-05
2156	258006.87	4085286.09	0.00017604	2.55E-03	1.88E-03	1.88E-03	1.05E-03	2.67E-05	3.88E-04	2.93E-04	2.93E-04	1.61E-04	1.45E-05	2.10E-04	1.30E-04	1.30E-04	6.45E-05
2157	258031.15	4085285.02	0.00017256	2.50E-03	1.84E-03	1.84E-03	1.03E-03	2.62E-05	3.80E-04	2.87E-04	2.87E-04	1.58E-04	1.42E-05	2.06E-04	1.28E-04	1.28E-04	6.33E-05
2158	258055.43	4085283.94	0.00016855	2.44E-03	1.80E-03	1.80E-03	1.00E-03	2.56E-05	3.71E-04	2.81E-04	2.81E-04	1.54E-04	1.39E-05	2.01E-04	1.25E-04	1.25E-04	6.18E-05
2159	258079.72	4085282.87	0.00016394	2.37E-03	1.75E-03	1.75E-03	9.74E-04	2.49E-05	3.61E-04	2.73E-04	2.73E-04	1.50E-04	1.35E-05	1.95E-04	1.21E-04	1.21E-04	6.01E-05
2160	258104	4085281.79	0.00015871	2.30E-03	1.69E-03	1.69E-03	9.43E-04	2.41E-05	3.50E-04	2.64E-04	2.64E-04	1.45E-04	1.31E-05	1.89E-04	1.18E-04	1.18E-04	5.82E-05
2161	258128.28	4085280.72	0.00015278	2.21E-03	1.63E-03	1.63E-03	9.08E-04	2.32E-05	3.37E-04	2.54E-04	2.54E-04	1.40E-04	1.26E-05	1.82E-04	1.13E-04	1.13E-04	5.60E-05
2162	258152.56	4085279.64	0.00014613	2.11E-03	1.56E-03	1.56E-03	8.69E-04	2.22E-05	3.22E-04	2.43E-04	2.43E-04	1.34E-04	1.20E-05	1.74E-04	1.08E-04	1.08E-04	5.36E-05
2163	258176.84	4085278.57	0.00013868	2.01E-03	1.48E-03	1.48E-03	8.24E-04	2.10E-05	3.06E-04	2.31E-04	2.31E-04	1.27E-04	1.14E-05	1.65E-04	1.03E-04	1.03E-04	5.08E-05
2164	258201.12	4085277.49	0.00013045	1.89E-03	1.39E-03	1.39E-03	7.75E-04	1.98E-05	2.87E-04	2.17E-04	2.17E-04	1.19E-04	1.08E-05	1.56E-04	9.66E-05	9.66E-05	4.78E-05
2165	258225.41	4085276.42	0.00012145	1.76E-03	1.29E-03	1.29E-03	7.22E-04	1.84E-05	2.68E-04	2.02E-04	2.02E-04	1.11E-04	1.00E-05	1.45E-04	8.99E-05	8.99E-05	4.45E-05
2166	258249.69	4085275.34	0.00011187	1.62E-03	1.19E-03	1.19E-03	6.65E-04	1.70E-05	2.47E-04	1.86E-04	1.86E-04	1.02E-04	9.22E-06	1.33E-04	8.28E-05	8.28E-05	4.10E-05
2167	258273.97	4085274.26	0.00010198	1.48E-03	1.09E-03	1.09E-03	6.06E-04	1.55E-05	2.25E-04	1.70E-04	1.70E-04	9.33E-05	8.41E-06	1.22E-04	7.55E-05	7.55E-05	3.74E-05
2168	258298.25	4085273.19	0.000092092	1.33E-03	9.82E-04	9.82E-04	5.47E-04	1.40E-05	2.03E-04	1.53E-04	1.53E-04	8.43E-05	7.59E-06	1.10E-04	6.82E-05	6.82E-05	3.38E-05
2169	258322.53	4085272.11	0.000082402	1.19E-03	8.78E-04	8.78E-04	4.90E-04	1.25E-05	1.82E-04	1.37E-04	1.37E-04	7.54E-05	6.79E-06	9.82E-05	6.10E-05	6.10E-05	3.02E-05
2170	258346.82	4085271.04	0.000073122	1.06E-03	7.80E-04	7.80E-04	4.35E-04	1.11E-05	1.61E-04	1.22E-04	1.22E-04	6.69E-05	6.03E-06	8.72E-05	5.42E-05	5.42E-05	2.68E-05
2171	258371.1	4085269.96	0.000064696	9.36E-04	6.90E-04	6.90E-04	3.85E-04	9.82E-06	1.43E-04	1.08E-04	1.08E-04	5.92E-05	5.33E-06	7.71E-05	4.79E-05	4.79E-05	2.37E-05
2172	257551.38	4085347.87	0.00011804	1.71E-03	1.26E-03	1.26E-03	7.02E-04	1.79E-05	2.60E-04	1.96E-04	1.96E-04	1.08E-04	9.73E-06	1.41E-04	8.74E-05	8.74E-05	4.33E-05
2173	257510.12	4085332.8	0.00011563	1.67E-03	1.23E-03	1.23E-03	6.87E-04	1.75E-05	2.55E-04	1.92E-04	1.92E-04	1.06E-04	9.53E-06	1.38E-04	8.56E-05	8.56E-05	4.24E-05
2174	257468.86	4085317.72	0.00010887	1.57E-03	1.16E-03	1.16E-03	6.47E-04	1.65E-05	2.40E-04	1.81E-04	1.81E-04	9.96E-05	8.97E-06	1.30E-04	8.06E-05	8.06E-05	3.99E-05
2175	257418.42	4085282.7	0.000098268	1.42E-03	1.05E-03	1.05E-03	5.84E-04	1.49E-05	2.17E-04	1.64E-04	1.64E-04	8.99E-05	8.10E-06	1.17E-04	7.28E-05	7.28E-05	3.60E-05
2176	257400.04	4085242.8	0.000094094	1.36E-03	1.00E-03	1.00E-03	5.59E-04	1.43E-05	2.07E-04	1.57E-04	1.57E-04	8.61E-05	7.76E-06	1.12E-04	6.97E-05	6.97E-05	3.45E-05
2177	257381.67	4085202.9	0.00008188	1.18E-03	8.73E-04	8.73E-04	4.87E-04	1.24E-05	1.80E-04	1.36E-04	1.36E-04	7.49E-05	6.75E-06	9.76E-05	6.06E-05	6.06E-05	3.00E-05
2178	257596.29	4085354.33	0.00012236	1.77E-03	1.30E-03	1.30E-03	7.27E-04	1.86E-05	2.70E-04	2.04E-04	2.04E-04	1.12E-04	1.01E-05	1.46E-04	9.06E-05	9.06E-05	4.49E-05
2179	257620.57	4085353.25	0.00012617	1.82E-03	1.35E-03	1.35E-03	7.50E-04	1.91E-05	2.78E-04	2.10E-04	2.10E-04	1.15E-04	1.04E-05	1.50E-04	9.34E-05	9.34E-05	4.62E-05
2180	257644.85	4085352.18	0.0001293	1.87E-03	1.38E-03	1.38E-03	7.68E-04	1.96E-05	2.85E-04	2.15E-04	2.15E-04	1.18E-04	1.07E-05	1.54E-04	9.57E-05	9.57E-05	4.74E-05
2181	257669.14	4085351.1	0.0001319	1.91E-03	1.41E-03	1.41E-03	7.84E-04	2.00E-05	2.91E-04	2.20E-04	2.20E-04	1.21E-04	1.09E-05	1.57E-04	9.77E-05	9.77E-05	4.84E-05
2182	257693.42	4085350.03	0.00013404	1.94E-03	1.43E-03	1.43E-03	7.97E-04	2.03E-05	2.95E-04	2.23E-04	2.23E-04	1.23E-04	1.10E-05	1.60E-04	9.93E-05	9.93E-05	4.91E-05
2183	257717.7	4085348.95	0.00013573	1.96E-03	1.45E-03	1.45E-03	8.07E-04	2.06E-05	2.99E-04	2.26E-04	2.26E-04	1.24E-04	1.12E-05	1.62E-04	1.01E-04	1.01E-04	4.98E-05
2184	257741.98	4085347.88	0.00013663	1.98E-03	1.46E-03	1.46E-03	8.12E-04	2.07E-05	3.01E-04	2.27E-04	2.27E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.01E-05
2185	257766.26	4085346.8	0.00013677	1.98E-03	1.46E-03	1.46E-03	8.13E-04	2.08E-05	3.01E-04	2.28E-04	2.28E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.01E-05
2186	257790.55	4085345.73	0.00013703	1.98E-03	1.46E-03	1.46E-03	8.14E-04	2.08E-05	3.02E-04	2.28E-04	2.28E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.02E-05
2187	257814.83	4085344.65	0.00013697	1.98E-03	1.46E-03	1.46E-03	8.14E-04	2.08E-05	3.02E-04	2.28E-04	2.28E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.02E-05
2188	257839.11	4085343.57	0.00013655	1.98E-03	1.46E-03	1.46E-03	8.12E-04	2.07E-05	3.01E-04	2.27E-04	2.27E-04	1.25E-04	1.13E-05	1.63E-04	1.01E-04	1.01E-04	5.01E-05
2189	257863.39	4085342.5	0.00013579	1.96E-03	1.45E-03	1.45E-03	8.07E-04	2.06E-05	2.99E-04	2.26E-04	2.26E-04	1.24E-04	1.12E-05	1.62E-04	1.01E-04	1.01E-04	4.98E-05
2190	257887.67	4085341.42	0.00013471	1.95E-03	1.44E-03	1.44E-03	8.01E-04	2.04E-05	2.97E-04	2.24E-04	2.24E-04	1.23E-04	1.11E-05	1.61E-04	9.98E-05	9.98E-05	4.94E-05
2191	257911.95	4085340.35	0.0001333	1.93E-03	1.42E-03	1.42E-03	7.92E-04	2.02E-05	2.94E-04	2.22E-04	2.22E-04	1.22E-04	1.10E-05	1.59E-04	9.87E-05	9.87E-05	4.89E-05
2192	257936.24	4085339.27	0.00013157	1.90E-03	1.40E-03	1.40E-03	7.82E-04	2.00E-05	2.90E-04	2.19E-04	2.19E-04	1.20E-04	1.08E-05	1.57E-04	9.74E-05	9.74E-05	4.82E-05
2193	257960.52	4085338.2	0.00012953	1.87E-03	1.38E-03	1.38E-03	7.70E-04	1.97E-05	2.85E-04	2.16E-04	2.16E-04	1.19E-04	1.07E-05	1.54E-04	9.59E-05	9.59E-05	4.75E-05
2194	257984.8	4085337.12	0.00012717	1.84E-03	1.36E-03	1.36E-03	7.56E-04	1.93E-05	2.80E-04	2.12E-04	2.12E-04	1.16E-04	1.05E-05	1.52E-04	9.42E-05	9.42E-05	4.66E-05
2195	258009.08	4085336.05	0.00012447	1.80E-03	1.33E-03	1.33E-03	7.40E-04	1.89E-05	2.74E-04	2.07E-04	2.07E-04	1.14E-04	1.03E-05	1.48E-04	9.22E-05	9.22E-05	4.56E-05
2196	258033.36	4085334.97	0.00012145	1.76E-03	1.29E-03	1.29E-03	7.22E-04	1.84E-05	2.68E-04	2.02E-04	2.02E-04	1.11E-04	1.00E-05	1.45E-04	8.99E-05	8.99E-05	4.45E-05
2197	258057.65	4085333.9	0.00011807	1.71E-03	1.26E-03	1.26E-03	7.02E-04	1.79E-05	2.60E-04	1.97E-04	1.97E-04	1.08E-04	9.73E-06	1.41E-04	8.74E-05	8.74E-05	4.33E-05
2198	258081.93	4085332.82	0.00011433	1.65E-03	1.22E-03	1.22E-03	6.80E-04	1.74E-05	2.52E-04	1.90E-04	1.90E-04	1.05E-04	9.42E-06	1.36E-04	8.47E-05	8.47E-05	4.19E-05
2199	258106.21	4085331.74	0.0001102	1.59E-03	1.17E-03	1.17E-03	6.55E-04	1.67E-05	2.43E-04	1.83E-04	1.83E-04	1.01E-04	9.08E-06	1.31E-04	8.16E-05	8.16E-05	4.04E-05
2200	258130.49	4085330.67	0.00010565	1.53E-03	1.13E-03	1.13E-03	6.28E-04	1.60E-05	2.33E-04	1.76E-04	1.76E-04	9.67E-05	8.71E-06	1.26E-04	7.82E-05	7.82E-05	3.87E-05
2201	258154.77	4085329.59	0.00010065	1.46E-03	1.07E-03	1.07E-03	5.98E-04	1.53E-05	2.22E-04	1.68E-04	1.68E-04	9.21E-05	8.30E-06	1.20E-04	7.45E-05	7.45E-05	3.69E-05
2202	258179.05	4085328.52	0.000095213	1.38E-03	1.02E-03	1.02E-03	5.66E-04	1.45E-05	2.10E-04	1.58E-04	1.58E-04	8.71E-05	7.85E-06	1.14E-04	7.05E-05	7.05E-05	3.49E-05
2203	258203.34	4085327.44	0.000089398	1.29E-03	9.53E-04	9.53E-04	5.31E-04	1.36E-05	1.97E-04	1.49E-04	1.49E-04	8.18E-05	7.37E-06	1.07E-04	6.62E-05	6.62E-05	3.28E-05
2204	258227.62	4085326.37	0.000083326	1.21E-03	8.88E-04	8.88E-04	4.95E-04	1.26E-05	1.84E-04	1.39E-04	1.39E-04	7.63E-05	6.87E-06	9.93E-05	6.17E-05	6.17E-05	3.05E-05
2205	258251.9	4085325.29	0.000077179	1.12E-03	8.23E-04	8.23E-04	4.59E-04	1.17E-05	1.70E-04	1.28E-04	1.28E-04	7.06E-05	6.36E-06	9.20E-05	5.72E-05	5.72E-05	2.83E-05
2206	258276.18	4085324.22	0.000071081	1.03E-03	7.58E-04	7.58E-04	4.22E-04	1.08E-05	1.57E-04	1.18E-04	1.18E-04	6.50E-05	5.86E-06	8.47E-05	5.26E-05	5.26E-05	2.61E-05
2207	258300.46	4085323.14	0.000065071	9.41E-04	6.94E-04	6.94E-04	3.87E-04	9.88E-06	1.43E-04	1.08E-04	1.08E-04	5.95E-05	5.36E-06	7.76E-05	4.82E-05	4.82E-05	2.39E-05
2208	258324.75	4085322.07	0.000059172	8.56E-04	6.31E-04	6.31E-04	3.52E-04	8.98E-06	1.30E-04	9.85E-05	9.85E-05	5.41E-05	4.88E-06	7.05E-05	4.38E-05	4.38E-05	2.17E-05
2209	258349.03	4085320.99	0.000053547	7.74E-04	5.71E-04	5.71E-04	3.18E-04	8.13E-06	1.18E-04	8.91E-05	8.91E-05	4.90E-05	4.41E-06	6.38E-05	3.97E-05	3.97E-05	1.96E-05
2210	258373.31	4085319.91	0.000048383	7.00E-04	5.16E-04	5.16E-04	2.88E-04	7.34E-06	1.07E-04	8.05E-05	8.05E-05	4.43E-05	3.99E-06	5.77E-05	3.58E-05	3.58E-05	1.77E-05
2211	257551.66	4085397.11	0.000094771	1.37E-03	1.01E-03	1.01E-03	5.63E-04	1.44E-05	2.09E-04	1.58E-04	1.58E-04	8.67E-05	7.81E-06	1.13E-04	7.02E-05	7.02E-05	3.47E-05
2212	257529.09	4085388.87	0.000094752	1.37E-03	1.01E-03	1.01E-03	5.63E-04	1.44E-05	2.09E-04	1.58E-04	1.58E-04	8.67E-05	7.81E-06	1.13E-04	7.02E-05	7.02E-05	3.47E-05
2213	257506.53	4085380.63	0.000094037	1.36E-03	1.00E-03	1.00E-03	5.59E-04	1.43E-05	2.07E-04	1.57E-04	1.57E-04	8.61E-05	7.75E-06	1.12E-04	6.96E-05	6.96E-05	3.45E-05
2214	257483.97	4085372.38	0.000092601	1.34E-03	9.87E-04	9.87E-04	5.50E-04	1.41E-05	2.04E-04	1.54E-04	1.54E-04	8.47E-05	7.63E-06	1.10E-04	6.86E-05	6.86E-05	3.39E-05
2215	257461.4	4085364.14	0.000090314	1.31E-03	9.63E-04	9.63E-04	5.37E-04	1.37E-05	1.99E-04	1.50E-04	1.50E-04	8.26E-05	7.44E-06	1.08E-04	6.69E-05	6.69E-05	3.31E-05
2216	257438.84	4085355.9	0.000087078	1.26E-03	9.28E-04	9.28E-04	5.18E-04	1.32E-05	1.92E-04	1.45E-04	1.45E-04	7.97E-05	7.18E-06	1.04E-04	6.45E-05	6.45E-05	3.19E-05
2217	257416.28	4085347.66	0.000082994	1.20E-03	8.85E-04	8.85E-04	4.93E-04	1.26E-05	1.83E-04	1.38E-04	1.38E-04	7.59E-05	6.84E-06	9.89E-05	6.15E-05	6.15E-05	3.04E-05
2218	257383.67	4085317.59	0.000078693	1.14E-03	8.39E-04	8.39E-04	4.68E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.20E-05	6.49E-06	9.38E-05	5.83E-05	5.83E-05	2.88E-05
2219	257373.62	4085295.77	0.000077882	1.13E-03	8.30E-04	8.30E-04	4.63E-04	1.18E-05	1.72E-04	1.30E-04	1.30E-04	7.13E-05	6.42E-06	9.28E-05	5.77E-05	5.77E-05	2.85E-05

2220	257363.57	4085273.96	0.000075523	1.09E-03	8.05E-04	8.05E-04	4.49E-04	1.15E-05	1.66E-04	1.26E-04	1.26E-04	6.91E-05	6.23E-06	9.00E-05	5.59E-05	5.59E-05	2.77E-05
2221	257353.52	4085252.14	0.000071509	1.03E-03	7.62E-04	7.62E-04	4.25E-04	1.09E-05	1.58E-04	1.19E-04	1.19E-04	6.54E-05	5.89E-06	8.53E-05	5.30E-05	5.30E-05	2.62E-05
2222	257343.47	4085230.32	0.000066104	9.56E-04	7.05E-04	7.05E-04	3.93E-04	1.00E-05	1.46E-04	1.10E-04	1.10E-04	6.05E-05	5.45E-06	7.88E-05	4.90E-05	4.90E-05	2.42E-05
2223	257333.43	4085208.5	0.000059846	8.66E-04	6.38E-04	6.38E-04	3.56E-04	9.08E-06	1.32E-04	9.96E-05	9.96E-05	5.48E-05	4.93E-06	7.13E-05	4.43E-05	4.43E-05	2.19E-05
2224	257323.38	4085186.68	0.000053289	7.71E-04	5.68E-04	5.68E-04	3.17E-04	8.09E-06	1.17E-04	8.87E-05	8.87E-05	4.88E-05	4.39E-06	6.35E-05	3.95E-05	3.95E-05	1.95E-05
2225	257574.22	4085405.36	0.000094113	1.36E-03	1.00E-03	1.00E-03	5.59E-04	1.43E-05	2.07E-04	1.57E-04	1.57E-04	8.61E-05	7.76E-06	1.12E-04	6.97E-05	6.97E-05	3.45E-05
2226	257598.5	4085404.28	0.000096863	1.40E-03	1.03E-03	1.03E-03	5.76E-04	1.47E-05	2.13E-04	1.61E-04	1.61E-04	8.86E-05	7.98E-06	1.15E-04	7.17E-05	7.17E-05	3.55E-05
2227	257622.79	4085403.2	0.00009915	1.43E-03	1.06E-03	1.06E-03	5.89E-04	1.50E-05	2.18E-04	1.65E-04	1.65E-04	9.07E-05	8.17E-06	1.18E-04	7.34E-05	7.34E-05	3.63E-05
2228	257647.07	4085402.13	0.00010098	1.46E-03	1.08E-03	1.08E-03	6.00E-04	1.53E-05	2.22E-04	1.68E-04	1.68E-04	9.24E-05	8.32E-06	1.20E-04	7.48E-05	7.48E-05	3.70E-05
2229	257671.35	4085401.05	0.00010242	1.48E-03	1.09E-03	1.09E-03	6.09E-04	1.55E-05	2.26E-04	1.70E-04	1.70E-04	9.37E-05	8.44E-06	1.22E-04	7.59E-05	7.59E-05	3.75E-05
2230	257695.63	4085399.98	0.00010346	1.50E-03	1.10E-03	1.10E-03	6.15E-04	1.57E-05	2.28E-04	1.72E-04	1.72E-04	9.47E-05	8.53E-06	1.23E-04	7.66E-05	7.66E-05	3.79E-05
2231	257719.91	4085398.9	0.00010377	1.50E-03	1.11E-03	1.11E-03	6.17E-04	1.57E-05	2.29E-04	1.73E-04	1.73E-04	9.50E-05	8.55E-06	1.24E-04	7.68E-05	7.68E-05	3.80E-05
2232	257744.19	4085397.83	0.00010433	1.51E-03	1.11E-03	1.11E-03	6.20E-04	1.58E-05	2.30E-04	1.74E-04	1.74E-04	9.55E-05	8.60E-06	1.24E-04	7.73E-05	7.73E-05	3.82E-05
2233	257768.48	4085396.75	0.00010458	1.51E-03	1.11E-03	1.11E-03	6.22E-04	1.59E-05	2.30E-04	1.74E-04	1.74E-04	9.57E-05	8.62E-06	1.25E-04	7.74E-05	7.74E-05	3.83E-05
2234	257792.76	4085395.68	0.0001045	1.51E-03	1.11E-03	1.11E-03	6.21E-04	1.59E-05	2.30E-04	1.74E-04	1.74E-04	9.56E-05	8.61E-06	1.25E-04	7.74E-05	7.74E-05	3.83E-05
2235	257817.04	4085394.6	0.00010412	1.51E-03	1.11E-03	1.11E-03	6.19E-04	1.58E-05	2.29E-04	1.73E-04	1.73E-04	9.53E-05	8.58E-06	1.24E-04	7.71E-05	7.71E-05	3.82E-05
2236	257841.32	4085393.53	0.00010346	1.50E-03	1.10E-03	1.10E-03	6.15E-04	1.57E-05	2.28E-04	1.72E-04	1.72E-04	9.47E-05	8.53E-06	1.23E-04	7.66E-05	7.66E-05	3.79E-05
2237	257865.6	4085392.45	0.00010254	1.48E-03	1.09E-03	1.09E-03	6.09E-04	1.56E-05	2.26E-04	1.71E-04	1.71E-04	9.38E-05	8.45E-06	1.22E-04	7.59E-05	7.59E-05	3.76E-05
2238	257889.89	4085391.37	0.00010137	1.47E-03	1.08E-03	1.08E-03	6.03E-04	1.54E-05	2.23E-04	1.69E-04	1.69E-04	9.28E-05	8.36E-06	1.21E-04	7.51E-05	7.51E-05	3.72E-05
2239	257914.17	4085390.3	0.000099965	1.45E-03	1.07E-03	1.07E-03	5.94E-04	1.52E-05	2.20E-04	1.66E-04	1.66E-04	9.15E-05	8.24E-06	1.19E-04	7.40E-05	7.40E-05	3.66E-05
2240	257938.45	4085389.22	0.00009834	1.42E-03	1.05E-03	1.05E-03	5.84E-04	1.49E-05	2.17E-04	1.64E-04	1.64E-04	9.00E-05	8.11E-06	1.17E-04	7.28E-05	7.28E-05	3.60E-05
2241	257962.73	4085388.15	0.000096494	1.40E-03	1.03E-03	1.03E-03	5.74E-04	1.46E-05	2.13E-04	1.61E-04	1.61E-04	8.83E-05	7.95E-06	1.15E-04	7.15E-05	7.15E-05	3.54E-05
2242	257987.01	4085387.07	0.000094435	1.37E-03	1.01E-03	1.01E-03	5.61E-04	1.43E-05	2.08E-04	1.57E-04	1.57E-04	8.64E-05	7.78E-06	1.13E-04	6.99E-05	6.99E-05	3.46E-05
2243	258011.29	4085386	0.000092152	1.33E-03	9.82E-04	9.82E-04	5.48E-04	1.40E-05	2.03E-04	1.53E-04	1.53E-04	8.43E-05	7.60E-06	1.10E-04	6.82E-05	6.82E-05	3.38E-05
2244	258035.58	4085384.92	0.00008965	1.30E-03	9.56E-04	9.56E-04	5.33E-04	1.36E-05	1.98E-04	1.49E-04	1.49E-04	8.20E-05	7.39E-06	1.07E-04	6.64E-05	6.64E-05	3.29E-05
2245	258059.86	4085383.85	0.00008691	1.26E-03	9.27E-04	9.27E-04	5.17E-04	1.32E-05	1.91E-04	1.45E-04	1.45E-04	7.95E-05	7.16E-06	1.04E-04	6.44E-05	6.44E-05	3.19E-05
2246	258084.14	4085382.77	0.000083925	1.21E-03	8.95E-04	8.95E-04	4.99E-04	1.27E-05	1.85E-04	1.40E-04	1.40E-04	7.68E-05	6.92E-06	1.00E-04	6.22E-05	6.22E-05	3.08E-05
2247	258108.42	4085381.7	0.000080659	1.17E-03	8.60E-04	8.60E-04	4.79E-04	1.22E-05	1.78E-04	1.34E-04	1.34E-04	7.38E-05	6.65E-06	9.62E-05	5.97E-05	5.97E-05	2.96E-05
2248	258132.7	4085380.62	0.000077116	1.12E-03	8.22E-04	8.22E-04	4.58E-04	1.17E-05	1.70E-04	1.28E-04	1.28E-04	7.06E-05	6.36E-06	9.19E-05	5.71E-05	5.71E-05	2.83E-05
2249	258156.99	4085379.54	0.000073306	1.06E-03	7.81E-04	7.81E-04	4.36E-04	1.11E-05	1.62E-04	1.22E-04	1.22E-04	6.71E-05	6.04E-06	8.74E-05	5.43E-05	5.43E-05	2.69E-05
2250	258181.27	4085378.47	0.000069286	1.00E-03	7.39E-04	7.39E-04	4.12E-04	1.05E-05	1.53E-04	1.15E-04	1.15E-04	6.34E-05	5.71E-06	8.26E-05	5.13E-05	5.13E-05	2.54E-05
2251	258205.55	4085377.39	0.000065157	9.42E-04	6.95E-04	6.95E-04	3.87E-04	9.89E-06	1.44E-04	1.08E-04	1.08E-04	5.96E-05	5.37E-06	7.77E-05	4.83E-05	4.83E-05	2.39E-05
2252	258229.83	4085376.32	0.000061024	8.83E-04	6.51E-04	6.51E-04	3.63E-04	9.26E-06	1.34E-04	1.02E-04	1.02E-04	5.58E-05	5.03E-06	7.28E-05	4.52E-05	4.52E-05	2.24E-05
2253	258254.11	4085375.24	0.000056953	8.24E-04	6.07E-04	6.07E-04	3.38E-04	8.64E-06	1.25E-04	9.48E-05	9.48E-05	5.21E-05	4.69E-06	6.79E-05	4.22E-05	4.22E-05	2.09E-05
2254	258278.39	4085374.17	0.00005293	7.66E-04	5.64E-04	5.64E-04	3.15E-04	8.03E-06	1.17E-04	8.81E-05	8.81E-05	4.84E-05	4.36E-06	6.31E-05	3.92E-05	3.92E-05	1.94E-05
2255	258302.68	4085373.09	0.000048943	7.08E-04	5.22E-04	5.22E-04	2.91E-04	7.43E-06	1.08E-04	8.15E-05	8.15E-05	4.48E-05	4.03E-06	5.84E-05	3.62E-05	3.62E-05	1.79E-05
2256	258326.96	4085372.02	0.000045041	6.51E-04	4.80E-04	4.80E-04	2.68E-04	6.84E-06	9.92E-05	7.50E-05	7.50E-05	4.12E-05	3.71E-06	5.37E-05	3.34E-05	3.34E-05	1.65E-05
2257	258351.24	4085370.94	0.000041324	5.98E-04	4.41E-04	4.41E-04	2.46E-04	6.27E-06	9.11E-05	6.88E-05	6.88E-05	3.78E-05	3.41E-06	4.93E-05	3.06E-05	3.06E-05	1.51E-05
2258	258375.52	4085369.87	0.00003788	5.48E-04	4.04E-04	4.04E-04	2.25E-04	5.75E-06	8.35E-05	6.31E-05	6.31E-05	3.47E-05	3.12E-06	4.52E-05	2.81E-05	2.81E-05	1.39E-05
2259	257554.77	4085447.39	0.000077716	1.12E-03	8.28E-04	8.28E-04	4.62E-04	1.18E-05	1.71E-04	1.29E-04	1.29E-04	7.11E-05	6.41E-06	9.27E-05	5.76E-05	5.76E-05	2.85E-05
2260	257533.11	4085439.48	0.000078177	1.13E-03	8.33E-04	8.33E-04	4.65E-04	1.19E-05	1.72E-04	1.30E-04	1.30E-04	7.15E-05	6.44E-06	9.32E-05	5.79E-05	5.79E-05	2.87E-05
2261	257511.45	4085431.57	0.000078222	1.13E-03	8.34E-04	8.34E-04	4.65E-04	1.19E-05	1.72E-04	1.30E-04	1.30E-04	7.16E-05	6.45E-06	9.33E-05	5.79E-05	5.79E-05	2.87E-05
2262	257489.79	4085423.65	0.000077849	1.13E-03	8.30E-04	8.30E-04	4.63E-04	1.18E-05	1.72E-04	1.30E-04	1.30E-04	7.12E-05	6.42E-06	9.28E-05	5.77E-05	5.77E-05	2.85E-05
2263	257468.13	4085415.74	0.000077034	1.11E-03	8.21E-04	8.21E-04	4.58E-04	1.17E-05	1.70E-04	1.28E-04	1.28E-04	7.05E-05	6.35E-06	9.18E-05	5.70E-05	5.70E-05	2.82E-05
2264	257446.47	4085407.83	0.000075702	1.09E-03	8.07E-04	8.07E-04	4.50E-04	1.15E-05	1.67E-04	1.26E-04	1.26E-04	6.93E-05	6.24E-06	9.03E-05	5.61E-05	5.61E-05	2.77E-05
2265	257424.81	4085399.92	0.000073763	1.07E-03	7.86E-04	7.86E-04	4.38E-04	1.12E-05	1.63E-04	1.23E-04	1.23E-04	6.75E-05	6.08E-06	8.79E-05	5.46E-05	5.46E-05	2.70E-05
2266	257403.15	4085392	0.000071239	1.03E-03	7.59E-04	7.59E-04	4.23E-04	1.08E-05	1.57E-04	1.19E-04	1.19E-04	6.52E-05	5.87E-06	8.49E-05	5.28E-05	5.28E-05	2.61E-05
2267	257381.48	4085384.09	0.000068247	9.87E-04	7.28E-04	7.28E-04	4.06E-04	1.04E-05	1.50E-04	1.14E-04	1.14E-04	6.25E-05	5.63E-06	8.14E-05	5.05E-05	5.05E-05	2.50E-05
2268	257350.18	4085355.23	0.000065217	9.43E-04	6.95E-04	6.95E-04	3.88E-04	9.90E-06	1.44E-04	1.09E-04	1.09E-04	5.97E-05	5.38E-06	7.78E-05	4.83E-05	4.83E-05	2.39E-05
2269	257340.53	4085334.28	0.000064799	9.37E-04	6.91E-04	6.91E-04	3.85E-04	9.83E-06	1.43E-04	1.08E-04	1.08E-04	5.93E-05	5.34E-06	7.73E-05	4.80E-05	4.80E-05	2.38E-05
2270	257330.89	4085313.34	0.000063493	9.18E-04	6.77E-04	6.77E-04	3.77E-04	9.64E-06	1.40E-04	1.06E-04	1.06E-04	5.81E-05	5.23E-06	7.57E-05	4.70E-05	4.70E-05	2.33E-05
2271	257321.24	4085292.39	0.000061155	8.85E-04	6.52E-04	6.52E-04	3.63E-04	9.28E-06	1.35E-04	1.02E-04	1.02E-04	5.60E-05	5.04E-06	7.29E-05	4.53E-05	4.53E-05	2.24E-05
2272	257311.59	4085271.44	0.000057791	8.36E-04	6.16E-04	6.16E-04	3.43E-04	8.77E-06	1.27E-04	9.62E-05	9.62E-05	5.29E-05	4.76E-06	6.89E-05	4.28E-05	4.28E-05	2.12E-05
2273	257301.95	4085250.5	0.00005359	7.75E-04	5.71E-04	5.71E-04	3.19E-04	8.13E-06	1.18E-04	8.92E-05	8.92E-05	4.90E-05	4.42E-06	6.39E-05	3.97E-05	3.97E-05	1.96E-05
2274	257292.3	4085229.55	0.000048875	7.07E-04	5.21E-04	5.21E-04	2.90E-04	7.42E-06	1.08E-04	8.14E-05	8.14E-05	4.47E-05	4.03E-06	5.83E-05	3.62E-05	3.62E-05	1.79E-05
2275	257282.66	4085208.6	0.000044013	6.37E-04	4.69E-04	4.69E-04	2.62E-04	6.68E-06	9.70E-05	7.33E-05	7.33E-05	4.03E-05	3.63E-06	5.25E-05	3.26E-05	3.26E-05	1.61E-05
2276	257273.01	4085187.65	0.000039293	5.68E-04	4.19E-04	4.19E-04	2.34E-04	5.96E-06	8.66E-05	6.54E-05	6.54E-05	3.60E-05	3.24E-06	4.68E-05	2.91E-05	2.91E-05	1.44E-05
2277	257576.43	4085455.31	0.000076857	1.11E-03	8.19E-04	8.19E-04	4.57E-04	1.17E-05	1.69E-04	1.28E-04	1.28E-04	7.03E-05	6.34E-06	9.16E-05	5.69E-05	5.69E-05	2.82E-05
2278	257600.72	4085454.23	0.000078534	1.14E-03	8.37E-04	8.37E-04	4.67E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.19E-05	6.47E-06	9.36E-05	5.82E-05	5.82E-05	2.88E-05
2279	257625	4085453.16	0.00007989	1.16E-03	8.52E-04	8.52E-04	4.75E-04	1.21E-05	1.76E-04	1.33E-04	1.33E-04	7.31E-05	6.59E-06	9.52E-05	5.92E-05	5.92E-05	2.93E-05
2280	257649.28	4085452.08	0.000080929	1.17E-03	8.63E-04	8.63E-04	4.81E-04	1.23E-05	1.78E-04	1.35E-04	1.35E-04	7.41E-05	6.67E-06	9.65E-05	5.99E-05	5.99E-05	2.97E-05
2281	257673.56	4085451	0.000081365	1.18E-03	8.67E-04	8.67E-04	4.84E-04	1.23E-05	1.79E-04	1.35E-04	1.35E-04	7.45E-05	6.71E-06	9.70E-05	6.03E-05	6.03E-05	2.98E-05
2282	257697.84	4085449.93	0.000081726	1.18E-03	8.71E-04	8.71E-04	4.86E-04	1.24E-05	1.80E-04	1.36E-04	1.36E-04	7.48E-05	6.74E-06	9.74E-05	6.05E-05	6.05E-05	3.00E-05
2283	257722.13	4085448.85	0.000082048	1.19E-03	8.75E-04	8.75E-04	4.88E-04	1.25E-05	1.81E-04	1.37E-04	1.37E-04	7.51E-05	6.76E-06	9.78E-05	6.08E-05	6.08E-05	3.01E-05
2284	257746.41	4085447.78	0.000082191	1.19E-03	8.76E-04	8.76E-04	4.88E-04	1.25E-05	1.81E-04	1.37E-04	1.37E-04	7.52E-05	6.77E-06	9.80E-05	6.09E-05	6.09E-05	3.01E-05
2285	257770.69	4085446.7	0.00008214	1.19E-03	8.76E-04	8.76E-04	4.88E-04	1.25E-05	1.81E-04	1.37E-04	1.37E-04	7.52E-05	6.77E-06	9.79E-05	6.08E-05	6.08E-05	3.01E-05
2286	257794.97	4085445.63	0.000081863	1.18E-03	8.73E-04	8.73E-04	4.87E-04	1.24E-05	1.80E-04	1.36E-04	1.36E-04	7.49E-05	6.75E-06	9.76E-05	6.06E-05	6.06E-05	3.00E-05
2287	257819.25	4085444.55	0.00008137	1.18E-03	8.67E-04	8.67E-04	4.84E-04	1.23E-05	1.79E-04	1.35E-04	1.35E-04	7.45E-05	6.71E-06	9.70E-05	6.03E-05	6.03E-05	2.98E-05
2288	257843.53	4085443.48	0.000080659	1.17E-03	8.60E-04	8.60E-04	4.79E-04	1.22E-05	1.78E-04	1.34E-04	1.34E-04	7.38E-05	6.65E-06	9.62E-05	5.97E-05	5.97E-05	2.96E-05
2289	257867.82	4085442.4	0.000079755	1.15E-03	8.50E-04	8.50E-04	4.74E-04	1.21E-05	1.76E-04	1.33E-04	1.33E-04	7.30E-05	6.57E-06	9.51E-05	5.91E-05	5.91E-05	2.92E-05
2290	257892.1	4085441.33	0.000078667	1.14E-03	8.39E-04	8.39E-04	4.68E-04	1.19E-05	1.73E-04	1.31E-04	1.31E-04	7.20E-05	6.48E-06	9.38E-05	5.83E-05	5.83E-05	2.88E-05
2291	257916.38	4085440.25	0.000077417	1.12E-03	8.25E-04	8.25E-04	4.60E-04	1.17E-05	1.71E-04	1.29E-04	1.29E-04	7.08E-05	6.38E-06	9.23E-05	5.73E-05	5.73E-05	2.84E-05
2292	257940.66	4085439.17	0.000076005	1.10E-03	8.10E-04	8.10E-04	4.52E-04	1.15E-05	1.67E-04	1.27E-04	1.27E-04	6.96E-05	6.27E-06	9.06E-05	5.63E-05	5.63E-05	2.79E-05
2293	257964.94	4085438.1	0.000074433	1.08E-03	7.93E-04	7.93E-04	4.42E-04	1.13E-05	1.64E-04	1.24E-04	1.24E-04	6.81E-05	6.14E-06	8.87E-05	5.51E-05	5.51E-05	2.73E-05
2294	257989.23	4085437.02	0.000072708	1.05E-03	7.75E-04	7.75E-04	4.32E-04	1.10E-05	1.60E-04	1.21E-04	1.21E-04	6.65E-05	5.99E-06	8.67E-05	5.38E-05	5.38E-05	2.67E-05
2295	258013.51	4085435.95	0.000070817	1.02E-03	7.55E-04	7.55E-04	4.21E-04	1.07E-05	1.56E-04	1.18E-04	1.18E-04	6.48E-05	5.84E-06	8.44E-05	5.24E-05	5.24E-05	2.60E-05
2296	258037.79	4085434.87	0.000068757	9.94E-04	7.33E-04	7.33E-04	4.09E-04	1.04E-05	1.52E-04	1.14E-04	1.14E-04	6.29E-05	5.67E-06	8.20E-05	5.09E-05	5.09E-05	2.52E-05
2297	258062.07	4085433.8	0.00006651	9.62E-04	7.09E-04	7.09E-04	3.95E-04	1.01E-05	1.47E-04	1.11E-04	1.11E-04	6.09E-05	5.48E-06	7.93E-05	4.93E-05	4.93E-05	2.44E-05
2298	258086.35	4085432.72	0.000064071	9.27E-04	6.83E-04	6.83E-04	3.81E-04	9.72E-06	1.41E-04	1.07E-04	1.07E-04	5.86E-05	5.28E-06	7.64E-05	4.74E-05	4.74E-05	2.35E-05
2299	258110.63	4085431.65	0.000061434	8.89E-04	6.55E-04	6.55E-04	3.65E-04	9.32E-06	1.35E-04	1.02E-04	1.02E-04	5.62E-05	5.06E-06	7.32E-05	4.55E-05	4.55E-05	2.25E-05
2300	258134.92	4085430.57	0.000058629	8.48E-04	6.25E-04	6.25E-04	3.48E-04	8.90E-06	1.29E-04	9.76E-05	9.76E-05	5.37E-05	4.83E-06	6.99E-05	4.34E-05	4.34E-05	2.15E-05
2301	258159.2	4085429.5	0.000055705	8.06E-04	5.94E-04	5.94E-04	3.31E-04	8.45E-06	1.23E-04	9.27E-05	9.27E-05	5.10E-05	4.59E-06	6.64E-05	4.13E-05	4.13E-05	2.04E-05
2302	258183.48	4085428.42	0.000052738	7.63E-04	5.62E-04	5.62E-04	3.13E-04	8.00E-06	1.16E-04	8.78E-05	8.78E-05	4.83E-05	4.35E-06	6.29E-05	3.91E-05	3.91E-05	1.93E-05
2303	258207.76	4085427.34	0.000049799	7.20E-04	5.31E-04	5.31E-04	2.96E-04	7.56E-06	1.10E-04	8.29E-05	8.29E-05	4.56E-05	4.10E-06	5.94E-05	3.69E-05	3.69E-05	1.83E-05
2304	258232.04	4085426.27	0.000046914	6.79E-04	5.00E-04	5.00E-04	2.79E-04	7.12E-06	1.03E-04	7.81E-05	7.81E-05	4.29E-05	3.87E-06	5.59E-05	3.47E-05	3.47E-05	1.72E-05
2305	258256.33	4085425.19	0.00004407	6.37E-04	4.70E-04	4.70E-04	2.62E-04	6.69E-06	9.71E-05	7.34E-05	7.34E-05	4.03E-05	3.63E-06	5.25E-05	3.26E-05	3.26E-05	1.62E-05
2306	258280.61	4085424.12	0.000041236	5.96E-04	4.40E-04	4.40E-04	2.45E-04	6.26E-06	9.09E-05	6.86E-05	6.86E-05	3.77E-05	3.40E-06	4.92E-05	3.05E-05	3.05E-05	1.51E-05
2307	258304.89	4085423.04	0.000038429	5.56E-04	4.10E-04	4.10E-04	2.28E-04	5.83E-06	8.47E-05	6.40E-05	6.40E-05	3.52E-05	3.17E-06	4.58E-05	2.85E-05	2.85E-05	1.41E-05
2308	258329.17	4085421.97	0.000035693	5.16E-04	3.81E-04	3.81E-04	2.12E-04	5.42E-06	7.86E-05	5.94E-05	5.94E-05	3.27E-05	2.94E-06	4.26E-05	2.64E-05	2.64E-05	1.31E-05
2309	258353.45	4085420.89	0.000033087	4.79E-04	3.53E-04	3.53E-04	1.97E-04	5.02E-06	7.29E-05	5.51E-05	5.51E-05	3.03E-05	2.73E-06	3.94E-05	2.45E-05	2.45E-05	1.21E-05
2310	258377.73	4085419.82	0.000030652	4.43E-04	3.27E-04	3.27E-04	1.82E-04	4.65E-06	6.75E-05	5.10E-05	5.10E-05	2.81E-05	2.53E-06	3.65E-05	2.27E-05	2.27E-05	1.12E-05
2311	257558.64	4085547.09	0.000054301	7.85E-04	5.79E-04	5.79E-04	3.23E-04	8.24E-06	1.20E-04	9.04E-05	9.04E-05	4.97E-05	4.48E-06	6.47E-05	4.02E-05	4.02E-05	1.99E-05
2312	257536.43	4085538.98	0.000055307	8.00E-04	5.90E-04	5.90E-04	3.29E-04	8.39E-06	1.22E-04	9.21E-05	9.21E-05	5.06E-05	4.56E-06	6.59E-05	4.10E-05	4.10E-05	2.03E-05
2313	257514.21	4085530.86	0.000055883	8.08E-04	5.96E-04	5.96E-04	3.32E-04	8.48E-06	1.23E-04	9.30E-05	9.30E-05	5.11E-05	4.61E-06	6.66E-05	4.14E-05	4.14E-05	2.05E-05
2314	257491.99	4085522.75	0.000056252	8.14E-04	6.00E-04	6.00E-04	3.34E-04	8.54E-06	1.24E-04	9.36E-05	9.36E-05	5.15E-05	4.64E-06	6.71E-05	4.17E-05	4.17E-05	2.06E-05
2315	257469.78	4085514.63	0.000056414	8.16E-04	6.01E-04	6.01E-04	3.35E-04	8.56E-06	1.24E-04	9.39E-05	9.39E-05	5.16E-05	4.65E-06	6.73E-05	4.18E-05	4.18E-05	2.07E-05
2316	257447.56	4085506.51	0.000056367	8.15E-04	6.01E-04	6.01E-04	3.35E-04	8.55E-06	1.24E-04	9.38E-05	9.38E-05	5.16E-05	4.65E-06	6.72E-05	4.17E-05	4.17E-05	2.07E-05
2317	257425.34	4085498.4	0.000056069	8.11E-04	5.98E-04	5.98E-04	3.33E-04	8.51E-06	1.24E-04	9.33E-05	9.33E-05	5.13E-05	4.62E-06	6.68E-05	4.15E-05	4.15E-05	2.06E-05
2318	257403.13	4085490.28	0.000055463	8.02E-04	5.91E-04	5.91E-04	3.30E-04	8.42E-06	1.22E-04	9.23E-05	9.23E-05	5.08E-05	4.57E-06	6.61E-05	4.11E-05	4.11E-05	2.03E-05
2319	257380.91	4085482.17	0.00005449	7.88E-04	5.81E-04	5.81E-04	3.24E-04	8.27E-06	1.20E-04	9.07E-05	9.07E-05	4.99E-05	4.49E-06	6.50E-05	4.04E-05	4.04E-05	2.00E-05
2320	257358.69	4085474.05	0.000053164	7.69E-04	5.67E-04	5.67E-04	3.16E-04	8.07E-06	1.17E-04	8.85E-05	8.85E-05	4.87E-05	4.38E-06	6.34E-05	3.94E-05	3.94E-05	1.95E-05
2321	257336.48	4085465.93	0.000051561	7.46E-04	5.50E-04	5.50E-04	3.06E-04	7.83E-06	1.14E-04	8.58E-05	8.58E-05	4.72E-05	4.25E-06	6.15E-05	3.82E-05	3.82E-05	1.89E-05
2322	257314.26	4085457.82	0.000049762	7.20E-04	5.30E-04	5.30E-04	2.96E-04	7.55E-06	1.10E-04	8.28E-05	8.28E-05	4.55E-05	4.10E-06	5.93E-05	3.69E-05	3.69E-05	1.82E-05
2323	257282.15	4085428.22	0.000048062	6.95E-04	5.12E-04	5.12E-04	2.86E-04	7.29E-06	1.06E-04	8.00E-05	8.00E-05	4.40E-05	3.96E-06	5.73E-05	3.56E-05	3.56E-05	1.76E-05
2324	257272.26	4085406.73	0.000047922	6.93E-04	5.11E-04	5.11E-04	2.85E-04	7.27E-06	1.06E-04	7.98E-05	7.98E-05	4.39E-05	3.95E-06	5.71E-05	3.55E-05	3.55E-05	1.76E-05
2325	257262.37	4085385.25	0.000047324	6.84E-04	5.04E-04	5.04E-04	2.81E-04	7.18E-06	1.04E-04	7.88E-05	7.88E-05	4.33E-05	3.90E-06	5.64E-05	3.50E-05	3.50E-05	1.73E-05
2326	257252.47	4085363.77	0.00004617	6.68E-04	4.92E-04	4.92E-04	2.74E-04	7.01E-06	1.02E-04	7.69E-05	7.69E-05	4.22E-05	3.81E-06	5.50E-05	3.42E-05	3.42E-05	1.69E-05
2327	257242.58	4085342.28	0.000044416	6.42E-04	4.73E-04	4.73E-04	2.64E-04	6.74E-06	9.79E-05	7.39E-05	7.39E-05	4.06E-05	3.66E-06	5.30E-05	3.29E-05	3.29E-05	1.63E-05
2328	257232.69	4085320.8	0.000042068	6.08E-04	4.48E-04	4.48E-04	2.50E-04	6.38E-06	9.27E-05	7.00E-05	7.00E-05	3.85E-05	3.47E-06	5.02E-05	3.12E-05	3.12E-05	1.54E-05
2329	257222.79	4085299.31	0.000039222	5.67E-04	4.18E-04	4.18E-04	2.33E-04	5.95E-06	8.64E-05	6.53E-05	6.53E-05	3.59E-05	3.23E-06	4.68E-05	2.90E-05	2.90E-05	1.44E-05
2330	257212.9	4085277.83	0.000036058	5.22E-04	3.84E-04	3.84E-04	2.14E-04	5.47E-06	7.95E-05	6.00E-05	6.00E-05	3.30E-05	2.97E-06	4.30E-05	2.67E-05	2.67E-05	1.32E-05
2331	257203.01	4085256.35	0.00003279	4.74E-04	3.50E-04	3.50E-04	1.95E-04	4.98E-06	7.22E-05	5.46E-05	5.46E-05	3.00E-05	2.70E-06	3.91E-05	2.43E-05	2.43E-05	1.20E-05
2332	257193.11	4085234.86	0.000029614	4.28E-04	3.16E-04	3.16E-04	1.76E-04	4.49E-06	6.53E-05	4.93E-05	4.93E-05	2.71E-05	2.44E-06	3.53E-05	2.19E-05	2.19E-05	1.09E-05
2333	257183.22	4085213.38	0.000026683	3.86E-04	2.84E-04	2.84E-04	1.59E-04	4.05E-06	5.88E-05	4.44E-05	4.44E-05	2.44E-05	2.20E-06	3.18E-05	1.98E-05	1.98E-05	9.78E-06
2334	257173.33	4085191.89	0.000024093	3.48E-04	2.57E-04	2.57E-04	1.43E-04	3.66E-06	5.31E-05	4.01E-05	4.01E-05	2.20E-05	1.99E-06	2.87E-05	1.78E-05	1.78E-05	8.83E-06
2335	257580.86	4085555.21	0.000053358	7.72E-04	5.69E-04	5.69E-04	3.17E-04	8.10E-06	1.18E-04	8.88E-05	8.88E-05	4.88E-05	4.40E-06	6.36E-05	3.95E-05	3.95E-05	1.96E-05
2336	257605.14	4085554.13	0.000053949	7.80E-04	5.75E-04	5.75E-04	3.21E-04	8.19E-06	1.19E-04	8.98E-05	8.98E-05	4.94E-05	4.45E-06	6.43E-05	4.00E-05	4.00E-05	1.98E-05

2337	257629.42	4085553.06	0.000054377	7.86E-04	5.80E-04	5.80E-04	3.23E-04	8.25E-06	1.20E-04	9.05E-05	9.05E-05	4.98E-05	4.48E-06	6.48E-05	4.03E-05	4.03E-05	1.99E-05
2338	257653.7	4085551.98	0.000054641	7.90E-04	5.83E-04	5.83E-04	3.25E-04	8.29E-06	1.20E-04	9.10E-05	9.10E-05	5.00E-05	4.50E-06	6.51E-05	4.05E-05	4.05E-05	2.00E-05
2339	257677.99	4085550.91	0.000054742	7.92E-04	5.84E-04	5.84E-04	3.25E-04	8.31E-06	1.21E-04	9.11E-05	9.11E-05	5.01E-05	4.51E-06	6.53E-05	4.05E-05	4.05E-05	2.01E-05
2340	257702.27	4085549.83	0.000054699	7.91E-04	5.83E-04	5.83E-04	3.25E-04	8.30E-06	1.21E-04	9.10E-05	9.10E-05	5.01E-05	4.51E-06	6.52E-05	4.05E-05	4.05E-05	2.01E-05
2341	257726.55	4085548.76	0.000054543	7.89E-04	5.81E-04	5.81E-04	3.24E-04	8.28E-06	1.20E-04	9.08E-05	9.08E-05	4.99E-05	4.50E-06	6.50E-05	4.04E-05	4.04E-05	2.00E-05
2342	257750.83	4085547.68	0.000054307	7.85E-04	5.79E-04	5.79E-04	3.23E-04	8.24E-06	1.20E-04	9.04E-05	9.04E-05	4.97E-05	4.48E-06	6.47E-05	4.02E-05	4.02E-05	1.99E-05
2343	257775.11	4085546.6	0.000054004	7.81E-04	5.76E-04	5.76E-04	3.21E-04	8.20E-06	1.19E-04	8.99E-05	8.99E-05	4.94E-05	4.45E-06	6.44E-05	4.00E-05	4.00E-05	1.98E-05
2344	257799.4	4085545.53	0.000053625	7.76E-04	5.72E-04	5.72E-04	3.19E-04	8.14E-06	1.18E-04	8.93E-05	8.93E-05	4.91E-05	4.42E-06	6.39E-05	3.97E-05	3.97E-05	1.97E-05
2345	257823.68	4085544.45	0.00005316	7.69E-04	5.67E-04	5.67E-04	3.16E-04	8.07E-06	1.17E-04	8.85E-05	8.85E-05	4.86E-05	4.38E-06	6.34E-05	3.94E-05	3.94E-05	1.95E-05
2346	257847.96	4085543.38	0.000052588	7.61E-04	5.61E-04	5.61E-04	3.13E-04	7.98E-06	1.16E-04	8.75E-05	8.75E-05	4.81E-05	4.33E-06	6.27E-05	3.89E-05	3.89E-05	1.93E-05
2347	257872.24	4085542.3	0.000051904	7.51E-04	5.53E-04	5.53E-04	3.08E-04	7.88E-06	1.14E-04	8.64E-05	8.64E-05	4.75E-05	4.28E-06	6.19E-05	3.84E-05	3.84E-05	1.90E-05
2348	257896.52	4085541.23	0.000051104	7.39E-04	5.45E-04	5.45E-04	3.04E-04	7.76E-06	1.13E-04	8.51E-05	8.51E-05	4.68E-05	4.21E-06	6.09E-05	3.78E-05	3.78E-05	1.87E-05
2349	257920.8	4085540.15	0.000050199	7.26E-04	5.35E-04	5.35E-04	2.98E-04	7.62E-06	1.11E-04	8.36E-05	8.36E-05	4.59E-05	4.14E-06	5.98E-05	3.72E-05	3.72E-05	1.84E-05
2350	257945.09	4085539.08	0.00004918	7.11E-04	5.24E-04	5.24E-04	2.92E-04	7.46E-06	1.08E-04	8.19E-05	8.19E-05	4.50E-05	4.05E-06	5.86E-05	3.64E-05	3.64E-05	1.80E-05
2351	257969.37	4085538	0.000048053	6.95E-04	5.12E-04	5.12E-04	2.86E-04	7.29E-06	1.06E-04	8.00E-05	8.00E-05	4.40E-05	3.96E-06	5.73E-05	3.56E-05	3.56E-05	1.76E-05
2352	257993.65	4085536.93	0.000046812	6.77E-04	4.99E-04	4.99E-04	2.78E-04	7.10E-06	1.03E-04	7.79E-05	7.79E-05	4.28E-05	3.86E-06	5.58E-05	3.47E-05	3.47E-05	1.72E-05
2353	258017.93	4085535.85	0.000045451	6.57E-04	4.85E-04	4.85E-04	2.70E-04	6.90E-06	1.00E-04	7.57E-05	7.57E-05	4.16E-05	3.75E-06	5.42E-05	3.37E-05	3.37E-05	1.67E-05
2354	258042.21	4085534.77	0.000043974	6.36E-04	4.69E-04	4.69E-04	2.61E-04	6.67E-06	9.69E-05	7.32E-05	7.32E-05	4.02E-05	3.62E-06	5.24E-05	3.26E-05	3.26E-05	1.61E-05
2355	258066.5	4085533.7	0.000042383	6.13E-04	4.52E-04	4.52E-04	2.52E-04	6.43E-06	9.34E-05	7.05E-05	7.05E-05	3.88E-05	3.49E-06	5.05E-05	3.14E-05	3.14E-05	1.55E-05
2356	258090.78	4085532.62	0.000040716	5.89E-04	4.34E-04	4.34E-04	2.42E-04	6.18E-06	8.97E-05	6.78E-05	6.78E-05	3.73E-05	3.36E-06	4.85E-05	3.02E-05	3.02E-05	1.49E-05
2357	258115.06	4085531.55	0.000038998	5.64E-04	4.16E-04	4.16E-04	2.32E-04	5.92E-06	8.59E-05	6.49E-05	6.49E-05	3.57E-05	3.21E-06	4.65E-05	2.89E-05	2.89E-05	1.43E-05
2358	258139.34	4085530.47	0.000037283	5.39E-04	3.97E-04	3.97E-04	2.22E-04	5.66E-06	8.22E-05	6.21E-05	6.21E-05	3.41E-05	3.07E-06	4.44E-05	2.76E-05	2.76E-05	1.37E-05
2359	258163.62	4085529.4	0.000035599	5.15E-04	3.80E-04	3.80E-04	2.12E-04	5.40E-06	7.84E-05	5.93E-05	5.93E-05	3.26E-05	2.93E-06	4.24E-05	2.64E-05	2.64E-05	1.30E-05
2360	258187.9	4085528.32	0.00003396	4.91E-04	3.62E-04	3.62E-04	2.02E-04	5.15E-06	7.48E-05	5.65E-05	5.65E-05	3.11E-05	2.80E-06	4.05E-05	2.51E-05	2.51E-05	1.24E-05
2361	258212.19	4085527.25	0.000032347	4.68E-04	3.45E-04	3.45E-04	1.92E-04	4.91E-06	7.13E-05	5.38E-05	5.38E-05	2.96E-05	2.67E-06	3.86E-05	2.40E-05	2.40E-05	1.19E-05
2362	258236.47	4085526.17	0.000030738	4.45E-04	3.28E-04	3.28E-04	1.83E-04	4.67E-06	6.77E-05	5.12E-05	5.12E-05	2.81E-05	2.53E-06	3.66E-05	2.28E-05	2.28E-05	1.13E-05
2363	258260.75	4085525.1	0.000029122	4.21E-04	3.10E-04	3.10E-04	1.73E-04	4.42E-06	6.42E-05	4.85E-05	4.85E-05	2.66E-05	2.40E-06	3.47E-05	2.16E-05	2.16E-05	1.07E-05
2364	258285.03	4085524.02	0.000027513	3.98E-04	2.93E-04	2.93E-04	1.64E-04	4.18E-06	6.06E-05	4.58E-05	4.58E-05	2.52E-05	2.27E-06	3.28E-05	2.04E-05	2.04E-05	1.01E-05
2365	258309.31	4085522.94	0.000025935	3.75E-04	2.76E-04	2.76E-04	1.54E-04	3.94E-06	5.71E-05	4.32E-05	4.32E-05	2.37E-05	2.14E-06	3.09E-05	1.92E-05	1.92E-05	9.51E-06
2366	258333.6	4085521.87	0.000024405	3.53E-04	2.60E-04	2.60E-04	1.45E-04	3.70E-06	5.38E-05	4.06E-05	4.06E-05	2.23E-05	2.01E-06	2.91E-05	1.81E-05	1.81E-05	8.95E-06
2367	258357.88	4085520.79	0.000022946	3.32E-04	2.45E-04	2.45E-04	1.36E-04	3.48E-06	5.06E-05	3.82E-05	3.82E-05	2.10E-05	1.89E-06	2.74E-05	1.70E-05	1.70E-05	8.41E-06
2368	258382.16	4085519.72	0.000021569	3.12E-04	2.30E-04	2.30E-04	1.28E-04	3.27E-06	4.75E-05	3.59E-05	3.59E-05	1.97E-05	1.78E-06	2.57E-05	1.60E-05	1.60E-05	7.91E-06
2369	257562.72	4085646.87	0.000039834	5.76E-04	4.25E-04	4.25E-04	2.37E-04	6.05E-06	8.78E-05	6.63E-05	6.63E-05	3.65E-05	3.28E-06	4.75E-05	2.95E-05	2.95E-05	1.46E-05
2370	257540.16	4085638.63	0.000040564	5.87E-04	4.32E-04	4.32E-04	2.41E-04	6.16E-06	8.94E-05	6.75E-05	6.75E-05	3.71E-05	3.34E-06	4.84E-05	3.00E-05	3.00E-05	1.49E-05
2371	257517.59	4085630.38	0.000041209	5.96E-04	4.39E-04	4.39E-04	2.45E-04	6.25E-06	9.08E-05	6.86E-05	6.86E-05	3.77E-05	3.40E-06	4.91E-05	3.05E-05	3.05E-05	1.51E-05
2372	257495.03	4085622.14	0.000041756	6.04E-04	4.45E-04	4.45E-04	2.48E-04	6.34E-06	9.20E-05	6.95E-05	6.95E-05	3.82E-05	3.44E-06	4.98E-05	3.09E-05	3.09E-05	1.53E-05
2373	257472.47	4085613.9	0.000042199	6.10E-04	4.50E-04	4.50E-04	2.51E-04	6.40E-06	9.30E-05	7.02E-05	7.02E-05	3.86E-05	3.48E-06	5.03E-05	3.13E-05	3.13E-05	1.55E-05
2374	257449.9	4085605.65	0.000042539	6.15E-04	4.53E-04	4.53E-04	2.53E-04	6.46E-06	9.37E-05	7.08E-05	7.08E-05	3.89E-05	3.51E-06	5.07E-05	3.15E-05	3.15E-05	1.56E-05
2375	257427.34	4085597.41	0.000042914	6.21E-04	4.57E-04	4.57E-04	2.55E-04	6.51E-06	9.46E-05	7.14E-05	7.14E-05	3.93E-05	3.54E-06	5.12E-05	3.18E-05	3.18E-05	1.57E-05
2376	257404.77	4085589.17	0.000043058	6.23E-04	4.59E-04	4.59E-04	2.56E-04	6.53E-06	9.49E-05	7.17E-05	7.17E-05	3.94E-05	3.55E-06	5.13E-05	3.19E-05	3.19E-05	1.58E-05
2377	257382.21	4085580.93	0.000043023	6.22E-04	4.59E-04	4.59E-04	2.56E-04	6.53E-06	9.48E-05	7.16E-05	7.16E-05	3.94E-05	3.55E-06	5.13E-05	3.19E-05	3.19E-05	1.58E-05
2378	257359.65	4085572.68	0.000042785	6.19E-04	4.56E-04	4.56E-04	2.54E-04	6.49E-06	9.43E-05	7.12E-05	7.12E-05	3.92E-05	3.53E-06	5.10E-05	3.17E-05	3.17E-05	1.57E-05
2379	257337.08	4085564.44	0.000042308	6.12E-04	4.51E-04	4.51E-04	2.51E-04	6.42E-06	9.32E-05	7.04E-05	7.04E-05	3.87E-05	3.49E-06	5.04E-05	3.13E-05	3.13E-05	1.55E-05
2380	257314.52	4085556.2	0.000041605	6.02E-04	4.44E-04	4.44E-04	2.47E-04	6.31E-06	9.17E-05	6.93E-05	6.93E-05	3.81E-05	3.43E-06	4.96E-05	3.08E-05	3.08E-05	1.53E-05
2381	257291.96	4085547.96	0.000040724	5.89E-04	4.34E-04	4.34E-04	2.42E-04	6.18E-06	8.97E-05	6.78E-05	6.78E-05	3.73E-05	3.36E-06	4.86E-05	3.02E-05	3.02E-05	1.49E-05
2382	257269.39	4085539.71	0.000039716	5.74E-04	4.23E-04	4.23E-04	2.36E-04	6.03E-06	8.75E-05	6.61E-05	6.61E-05	3.63E-05	3.27E-06	4.73E-05	2.94E-05	2.94E-05	1.46E-05
2383	257246.83	4085531.47	0.000038625	5.59E-04	4.12E-04	4.12E-04	2.30E-04	5.86E-06	8.51E-05	6.43E-05	6.43E-05	3.53E-05	3.18E-06	4.61E-05	2.86E-05	2.86E-05	1.42E-05
2384	257214.22	4085501.41	0.00003772	5.46E-04	4.02E-04	4.02E-04	2.24E-04	5.72E-06	8.31E-05	6.28E-05	6.28E-05	3.45E-05	3.11E-06	4.50E-05	2.79E-05	2.79E-05	1.38E-05
2385	257204.17	4085479.59	0.000037744	5.46E-04	4.02E-04	4.02E-04	2.24E-04	5.73E-06	8.32E-05	6.28E-05	6.28E-05	3.45E-05	3.11E-06	4.50E-05	2.80E-05	2.80E-05	1.38E-05
2386	257194.12	4085457.77	0.00003749	5.42E-04	4.00E-04	4.00E-04	2.23E-04	5.69E-06	8.26E-05	6.24E-05	6.24E-05	3.43E-05	3.09E-06	4.47E-05	2.78E-05	2.78E-05	1.37E-05
2387	257184.08	4085435.95	0.0000369	5.34E-04	3.93E-04	3.93E-04	2.19E-04	5.60E-06	8.13E-05	6.14E-05	6.14E-05	3.38E-05	3.04E-06	4.40E-05	2.73E-05	2.73E-05	1.35E-05
2388	257174.03	4085414.13	0.000035929	5.20E-04	3.83E-04	3.83E-04	2.14E-04	5.45E-06	7.92E-05	5.98E-05	5.98E-05	3.29E-05	2.96E-06	4.28E-05	2.66E-05	2.66E-05	1.32E-05
2389	257163.98	4085392.31	0.000034562	5.00E-04	3.68E-04	3.68E-04	2.05E-04	5.25E-06	7.62E-05	5.75E-05	5.75E-05	3.16E-05	2.85E-06	4.12E-05	2.56E-05	2.56E-05	1.27E-05
2390	257153.93	4085370.49	0.000032814	4.75E-04	3.50E-04	3.50E-04	1.95E-04	4.98E-06	7.23E-05	5.46E-05	5.46E-05	3.00E-05	2.70E-06	3.91E-05	2.43E-05	2.43E-05	1.20E-05
2391	257143.88	4085348.67	0.000030747	4.45E-04	3.28E-04	3.28E-04	1.83E-04	4.67E-06	6.77E-05	5.12E-05	5.12E-05	2.81E-05	2.53E-06	3.67E-05	2.28E-05	2.28E-05	1.13E-05
2392	257133.84	4085326.85	0.000028464	4.12E-04	3.03E-04	3.03E-04	1.69E-04	4.32E-06	6.27E-05	4.74E-05	4.74E-05	2.60E-05	2.35E-06	3.39E-05	2.11E-05	2.11E-05	1.04E-05
2393	257123.79	4085305.03	0.000026101	3.78E-04	2.78E-04	2.78E-04	1.55E-04	3.96E-06	5.75E-05	4.34E-05	4.34E-05	2.39E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.57E-06
2394	257113.74	4085283.21	0.000023786	3.44E-04	2.54E-04	2.54E-04	1.41E-04	3.61E-06	5.24E-05	3.96E-05	3.96E-05	2.18E-05	1.96E-06	2.84E-05	1.76E-05	1.76E-05	8.72E-06
2395	257103.69	4085261.39	0.000021624	3.13E-04	2.31E-04	2.31E-04	1.29E-04	3.28E-06	4.76E-05	3.60E-05	3.60E-05	1.98E-05	1.78E-06	2.58E-05	1.60E-05	1.60E-05	7.93E-06
2396	257093.65	4085239.57	0.000019684	2.85E-04	2.10E-04	2.10E-04	1.17E-04	2.99E-06	4.34E-05	3.28E-05	3.28E-05	1.80E-05	1.62E-06	2.35E-05	1.46E-05	1.46E-05	7.22E-06
2397	257083.6	4085217.75	0.000018022	2.61E-04	1.92E-04	1.92E-04	1.07E-04	2.74E-06	3.97E-05	3.00E-05	3.00E-05	1.65E-05	1.49E-06	2.15E-05	1.33E-05	1.33E-05	6.61E-06
2398	257073.55	4085195.93	0.000016635	2.41E-04	1.77E-04	1.77E-04	9.89E-05	2.52E-06	3.67E-05	2.77E-05	2.77E-05	1.52E-05	1.37E-06	1.98E-05	1.23E-05	1.23E-05	6.10E-06
2399	257585.28	4085655.11	0.000039025	5.64E-04	4.16E-04	4.16E-04	2.32E-04	5.92E-06	8.60E-05	6.50E-05	6.50E-05	3.57E-05	3.22E-06	4.65E-05	2.89E-05	2.89E-05	1.43E-05
2400	257609.57	4085654.03	0.000039207	5.67E-04	4.18E-04	4.18E-04	2.33E-04	5.95E-06	8.64E-05	6.53E-05	6.53E-05	3.59E-05	3.23E-06	4.67E-05	2.90E-05	2.90E-05	1.44E-05
2401	257633.85	4085652.96	0.000039304	5.68E-04	4.19E-04	4.19E-04	2.34E-04	5.97E-06	8.66E-05	6.54E-05	6.54E-05	3.60E-05	3.24E-06	4.69E-05	2.91E-05	2.91E-05	1.44E-05
2402	257658.13	4085651.88	0.000039312	5.69E-04	4.19E-04	4.19E-04	2.34E-04	5.97E-06	8.66E-05	6.54E-05	6.54E-05	3.60E-05	3.24E-06	4.69E-05	2.91E-05	2.91E-05	1.44E-05
2403	257682.41	4085650.81	0.000039228	5.67E-04	4.18E-04	4.18E-04	2.33E-04	5.95E-06	8.64E-05	6.53E-05	6.53E-05	3.59E-05	3.23E-06	4.68E-05	2.91E-05	2.91E-05	1.44E-05
2404	257706.69	4085649.73	0.000039062	5.65E-04	4.16E-04	4.16E-04	2.32E-04	5.93E-06	8.61E-05	6.50E-05	6.50E-05	3.57E-05	3.22E-06	4.66E-05	2.89E-05	2.89E-05	1.43E-05
2405	257730.97	4085648.66	0.000038818	5.61E-04	4.14E-04	4.14E-04	2.31E-04	5.89E-06	8.55E-05	6.46E-05	6.46E-05	3.55E-05	3.20E-06	4.63E-05	2.87E-05	2.87E-05	1.42E-05
2406	257755.26	4085647.58	0.000038519	5.57E-04	4.11E-04	4.11E-04	2.29E-04	5.85E-06	8.49E-05	6.41E-05	6.41E-05	3.52E-05	3.18E-06	4.59E-05	2.85E-05	2.85E-05	1.41E-05
2407	257779.54	4085646.51	0.000038177	5.52E-04	4.07E-04	4.07E-04	2.27E-04	5.79E-06	8.41E-05	6.35E-05	6.35E-05	3.49E-05	3.15E-06	4.55E-05	2.83E-05	2.83E-05	1.40E-05
2408	257803.82	4085645.43	0.000037802	5.47E-04	4.03E-04	4.03E-04	2.25E-04	5.74E-06	8.33E-05	6.29E-05	6.29E-05	3.46E-05	3.12E-06	4.51E-05	2.80E-05	2.80E-05	1.39E-05
2409	257828.1	4085644.36	0.000037392	5.41E-04	3.99E-04	3.99E-04	2.22E-04	5.67E-06	8.24E-05	6.22E-05	6.22E-05	3.42E-05	3.08E-06	4.46E-05	2.77E-05	2.77E-05	1.37E-05
2410	257852.38	4085643.28	0.000036933	5.34E-04	3.94E-04	3.94E-04	2.20E-04	5.61E-06	8.14E-05	6.15E-05	6.15E-05	3.38E-05	3.04E-06	4.40E-05	2.74E-05	2.74E-05	1.35E-05
2411	257876.67	4085642.2	0.000036333	5.25E-04	3.87E-04	3.87E-04	2.16E-04	5.51E-06	8.01E-05	6.05E-05	6.05E-05	3.32E-05	2.99E-06	4.33E-05	2.69E-05	2.69E-05	1.33E-05
2412	257900.95	4085641.13	0.000035689	5.16E-04	3.80E-04	3.80E-04	2.12E-04	5.42E-06	7.86E-05	5.94E-05	5.94E-05	3.27E-05	2.94E-06	4.25E-05	2.64E-05	2.64E-05	1.31E-05
2413	257925.23	4085640.05	0.000035011	5.06E-04	3.73E-04	3.73E-04	2.08E-04	5.31E-06	7.71E-05	5.83E-05	5.83E-05	3.20E-05	2.89E-06	4.17E-05	2.59E-05	2.59E-05	1.28E-05
2414	257949.51	4085638.98	0.000034234	4.95E-04	3.65E-04	3.65E-04	2.03E-04	5.20E-06	7.54E-05	5.70E-05	5.70E-05	3.13E-05	2.82E-06	4.08E-05	2.54E-05	2.54E-05	1.25E-05
2415	257973.79	4085637.9	0.000033372	4.83E-04	3.56E-04	3.56E-04	1.98E-04	5.06E-06	7.35E-05	5.55E-05	5.55E-05	3.05E-05	2.75E-06	3.98E-05	2.47E-05	2.47E-05	1.22E-05
2416	257998.07	4085636.83	0.000032472	4.70E-04	3.46E-04	3.46E-04	1.93E-04	4.93E-06	7.15E-05	5.40E-05	5.40E-05	2.97E-05	2.68E-06	3.87E-05	2.40E-05	2.40E-05	1.19E-05
2417	258022.36	4085635.75	0.000031472	4.55E-04	3.36E-04	3.36E-04	1.87E-04	4.78E-06	6.93E-05	5.24E-05	5.24E-05	2.88E-05	2.59E-06	3.75E-05	2.33E-05	2.33E-05	1.15E-05
2418	258046.64	4085634.68	0.000030407	4.40E-04	3.24E-04	3.24E-04	1.81E-04	4.61E-06	6.70E-05	5.06E-05	5.06E-05	2.78E-05	2.51E-06	3.63E-05	2.25E-05	2.25E-05	1.11E-05
2419	258070.92	4085633.6	0.000029325	4.24E-04	3.13E-04	3.13E-04	1.74E-04	4.45E-06	6.46E-05	4.88E-05	4.88E-05	2.68E-05	2.42E-06	3.50E-05	2.17E-05	2.17E-05	1.07E-05
2420	258095.2	4085632.53	0.000028249	4.09E-04	3.01E-04	3.01E-04	1.68E-04	4.29E-06	6.22E-05	4.70E-05	4.70E-05	2.59E-05	2.33E-06	3.37E-05	2.09E-05	2.09E-05	1.04E-05
2421	258119.48	4085631.45	0.000027202	3.93E-04	2.90E-04	2.90E-04	1.62E-04	4.13E-06	5.99E-05	4.53E-05	4.53E-05	2.49E-05	2.24E-06	3.24E-05	2.01E-05	2.01E-05	9.97E-06
2422	258143.77	4085630.37	0.000026181	3.79E-04	2.79E-04	2.79E-04	1.56E-04	3.97E-06	5.77E-05	4.36E-05	4.36E-05	2.40E-05	2.16E-06	3.12E-05	1.94E-05	1.94E-05	9.60E-06
2423	258168.05	4085629.3	0.000025177	3.64E-04	2.68E-04	2.68E-04	1.50E-04	3.82E-06	5.55E-05	4.19E-05	4.19E-05	2.30E-05	2.08E-06	3.00E-05	1.86E-05	1.86E-05	9.23E-06
2424	258192.33	4085628.22	0.000024147	3.49E-04	2.57E-04	2.57E-04	1.44E-04	3.66E-06	5.32E-05	4.02E-05	4.02E-05	2.21E-05	1.99E-06	2.88E-05	1.79E-05	1.79E-05	8.85E-06
2425	258216.61	4085627.15	0.000022983	3.32E-04	2.45E-04	2.45E-04	1.37E-04	3.49E-06	5.06E-05	3.83E-05	3.83E-05	2.10E-05	1.89E-06	2.74E-05	1.70E-05	1.70E-05	8.42E-06
2426	258240.89	4085626.07	0.000021952	3.18E-04	2.34E-04	2.34E-04	1.30E-04	3.33E-06	4.84E-05	3.65E-05	3.65E-05	2.01E-05	1.81E-06	2.62E-05	1.63E-05	1.63E-05	8.05E-06
2427	258265.17	4085625	0.000020932	3.03E-04	2.23E-04	2.23E-04	1.24E-04	3.18E-06	4.61E-05	3.48E-05	3.48E-05	1.92E-05	1.73E-06	2.50E-05	1.55E-05	1.55E-05	7.67E-06
2428	258289.46	4085623.92	0.000019923	2.88E-04	2.12E-04	2.12E-04	1.18E-04	3.02E-06	4.39E-05	3.32E-05	3.32E-05	1.82E-05	1.64E-06	2.38E-05	1.48E-05	1.48E-05	7.30E-06
2429	258313.74	4085622.85	0.000018938	2.74E-04	2.02E-04	2.02E-04	1.13E-04	2.87E-06	4.17E-05	3.15E-05	3.15E-05	1.73E-05	1.56E-06	2.26E-05	1.40E-05	1.40E-05	6.94E-06
2430	258338.02	4085621.77	0.000017985	2.60E-04	1.92E-04	1.92E-04	1.07E-04	2.73E-06	3.96E-05	2.99E-05	2.99E-05	1.65E-05	1.48E-06	2.14E-05	1.33E-05	1.33E-05	6.59E-06
2431	258362.3	4085620.7	0.000017067	2.47E-04	1.82E-04	1.82E-04	1.01E-04	2.59E-06	3.76E-05	2.84E-05	2.84E-05	1.56E-05	1.41E-06	2.03E-05	1.26E-05	1.26E-05	6.26E-06
2432	258386.58	4085619.62	0.000016253	2.35E-04	1.73E-04	1.73E-04	9.66E-05	2.47E-06	3.58E-05	2.71E-05	2.71E-05	1.49E-05	1.34E-06	1.94E-05	1.20E-05	1.20E-05	5.96E-06
2433	257566.91	4085746.68	0.0000304	4.40E-04	3.24E-04	3.24E-04	1.81E-04	4.61E-06	6.70E-05	5.06E-05	5.06E-05	2.78E-05	2.51E-06	3.62E-05	2.25E-05	2.25E-05	1.11E-05
2434	257544.11	4085738.35	0.000030995	4.48E-04	3.30E-04	3.30E-04	1.84E-04	4.70E-06	6.83E-05	5.16E-05	5.16E-05	2.84E-05	2.55E-06	3.70E-05	2.30E-05	2.30E-05	1.14E-05
2435	257521.3	4085730.02	0.000031552	4.56E-04	3.36E-04	3.36E-04	1.88E-04	4.79E-06	6.95E-05	5.25E-05	5.25E-05	2.89E-05	2.60E-06	3.76E-05	2.34E-05	2.34E-05	1.16E-05
2436	257498.5	4085721.69	0.000032068	4.64E-04	3.42E-04	3.42E-04	1.91E-04	4.87E-06	7.07E-05	5.34E-05	5.34E-05	2.93E-05	2.64E-06	3.82E-05	2.37E-05	2.37E-05	1.18E-05
2437	257475.7	4085713.37	0.000032533	4.71E-04	3.47E-04	3.47E-04	1.93E-04	4.94E-06	7.17E-05	5.42E-05	5.42E-05	2.98E-05	2.68E-06	3.88E-05	2.41E-05	2.41E-05	1.19E-05
2438	257452.9	4085705.04	0.000032945	4.77E-04	3.51E-04	3.51E-04	1.96E-04	5.00E-06	7.26E-05	5.48E-05	5.48E-05	3.01E-05	2.72E-06	3.93E-05	2.44E-05	2.44E-05	1.21E-05
2439	257430.1	4085696.71	0.000033306	4.82E-04	3.55E-04	3.55E-04	1.98E-04	5.05E-06	7.34E-05	5.54E-05	5.54E-05	3.05E-05	2.75E-06	3.97E-05	2.47E-05	2.47E-05	1.22E-05
2440	257407.3	4085688.38	0.000033617	4.86E-04	3.58E-04	3.58E-04	2.00E-04	5.10E-06	7.41E-05	5.60E-05	5.60E-05	3.08E-05	2.77E-06	4.01E-05	2.49E-05	2.49E-05	1.23E-05
2441	257384.5	4085680.05	0.000033876	4.90E-04	3.61E-04	3.61E-04	2.01E-04	5.14E-06	7.46E-05	5.64E-05	5.64E-05	3.10E-05	2.79E-06	4.04E-05	2.51E-05	2.51E-05	1.24E-05
2442	257361.7	4085671.72	0.00003406	4.93E-04	3.63E-04	3.63E-04	2.02E-04	5.17E-06	7.50E-05	5.67E-05	5.67E-05	3.12E-05	2.81E-06	4.06E-05	2.52E-05	2.52E-05	1.25E-05
2443	257338.9	4085663.39	0.00003414	4.94E-04	3.64E-04	3.64E-04	2.03E-04	5.18E-06	7.52E-05	5.68E-05	5.68E-05	3.12E-05	2.81E-06	4.07E-05	2.53E-05	2.53E-05	1.25E-05
2444	257316.09	4085655.06	0.000034126	4.94E-04	3.64E-04	3.64E-04	2.03E-04	5.18E-06	7.52E-05	5.68E-05	5.68E-05	3.12E-05	2.81E-06	4.07E-05	2.53E-05	2.53E-05	1.25E-05
2445	257293.29	4085646.73	0.000033962	4.91E-04	3.62E-04	3.62E-04	2.02E-04	5.15E-06	7.48E-05	5.65E-05	5.65E-05	3.11E-05	2.80E-06	4.05E-05	2.52E-05	2.52E-05	1.24E-05
2446	257270.49	4085638.4	0.000033593	4.86E-04	3.58E-04	3.58E-04	2.00E-04	5.10E-06	7.40E-05	5.59E-05	5.59E-05	3.07E-05	2.77E-06	4.01E-05	2.49E-05	2.49E-05	1.23E-05
2447	257247.69	4085630.07	0.000033107	4.79E-04	3.53E-04	3.53E-04	1.97E-04	5.02E-06	7.29E-05	5.51E-05	5.51E-05	3.03E-05	2.73E-06	3.95E-05	2.45E-05	2.45E-05	1.21E-05
2448	257224.89	4085621.74	0.000032542	4.71E-04	3.47E-04	3.47E-04	1.93E-04	4.94E-06	7.17E-05	5.42E-05	5.42E-05	2.98E-05	2.68E-06	3.88E-05	2.41E-05	2.41E-05	1.19E-05
2449	257202.09	4085613.41	0.000031921	4.62E-04	3.40E-04	3.40E-04	1.90E-04	4.84E-06	7.03E-05	5.31E-05	5.31E-05	2.92E-05	2.63E-06	3.81E-05	2.36E-05	2.36E-05	1.17E-05
2450	257179.29	4085605.08	0.000031259	4.52E-04	3.33E-04	3.33E-04	1.86E-04	4.74E-06	6.89E-05	5.20E-05	5.20E-05	2.86E-05	2.58E-06	3.73E-05	2.31E-05	2.31E-05	1.15E-05
2451	257146.33	4085574.71	0.000030837	4.46E-04	3.29E-04	3.29E-04	1.83E-04	4.68E-06	6.79E-05	5.13E-05	5.13E-05	2.82E-05	2.54E-06	3.68E-05	2.28E-05	2.28E-05	1.13E-05
2452	257136.18	4085552.66	0.00003097	4.48E-04	3.30E-04	3.30E-04	1.84E-04	4.70E-06	6.82E-05	5.15E-05	5.15E-05	2.83E-05	2.55E-06	3.69E-05	2.29E-05	2.29E-05	1.14E-05
2453	257126.03	4085530.61	0.000030915	4.47E-04	3.30E-04	3.30E-04	1.84E-04	4.69E-06	6.81E-05	5.15E-05	5.15E-05	2.83E-05	2.55E-06	3.69E-05	2.29E-05	2.29E-05	1.13E-05

2454	257115.87	4085508.56	0.000030632	4.43E-04	3.27E-04	3.27E-04	1.82E-04	4.65E-06	6.75E-05	5.10E-05	5.10E-05	2.80E-05	2.52E-06	3.65E-05	2.27E-05	2.27E-05	1.12E-05
2455	257105.72	4085486.51	0.000030095	4.35E-04	3.21E-04	3.21E-04	1.79E-04	4.57E-06	6.63E-05	5.01E-05	5.01E-05	2.75E-05	2.48E-06	3.59E-05	2.23E-05	2.23E-05	1.10E-05
2456	257095.57	4085464.46	0.00002928	4.23E-04	3.12E-04	3.12E-04	1.74E-04	4.44E-06	6.45E-05	4.87E-05	4.87E-05	2.68E-05	2.41E-06	3.49E-05	2.17E-05	2.17E-05	1.07E-05
2457	257085.41	4085442.41	0.000028185	4.08E-04	3.00E-04	3.00E-04	1.68E-04	4.28E-06	6.21E-05	4.69E-05	4.69E-05	2.58E-05	2.32E-06	3.36E-05	2.09E-05	2.09E-05	1.03E-05
2458	257075.26	4085420.36	0.000026829	3.88E-04	2.86E-04	2.86E-04	1.59E-04	4.07E-06	5.91E-05	4.47E-05	4.47E-05	2.46E-05	2.21E-06	3.20E-05	1.99E-05	1.99E-05	9.83E-06
2459	257065.11	4085398.31	0.000025251	3.65E-04	2.69E-04	2.69E-04	1.50E-04	3.83E-06	5.56E-05	4.20E-05	4.20E-05	2.31E-05	2.08E-06	3.01E-05	1.87E-05	1.87E-05	9.26E-06
2460	257054.95	4085376.26	0.000023517	3.40E-04	2.51E-04	2.51E-04	1.40E-04	3.57E-06	5.18E-05	3.91E-05	3.91E-05	2.15E-05	1.94E-06	2.80E-05	1.74E-05	1.74E-05	8.62E-06
2461	257044.8	4085354.21	0.000021718	3.14E-04	2.32E-04	2.32E-04	1.29E-04	3.30E-06	4.79E-05	3.62E-05	3.62E-05	1.99E-05	1.79E-06	2.59E-05	1.61E-05	1.61E-05	7.96E-06
2462	257034.65	4085332.16	0.000019938	2.88E-04	2.13E-04	2.13E-04	1.18E-04	3.03E-06	4.39E-05	3.32E-05	3.32E-05	1.82E-05	1.64E-06	2.38E-05	1.48E-05	1.48E-05	7.31E-06
2463	257024.49	4085310.11	0.000018255	2.64E-04	1.95E-04	1.95E-04	1.08E-04	2.77E-06	4.02E-05	3.04E-05	3.04E-05	1.67E-05	1.50E-06	2.18E-05	1.35E-05	1.35E-05	6.69E-06
2464	257014.34	4085288.06	0.000016731	2.42E-04	1.78E-04	1.78E-04	9.94E-05	2.54E-06	3.69E-05	2.78E-05	2.78E-05	1.53E-05	1.38E-06	1.99E-05	1.24E-05	1.24E-05	6.13E-06
2465	257004.19	4085266.01	0.000015395	2.23E-04	1.64E-04	1.64E-04	9.15E-05	2.34E-06	3.39E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.64E-06
2466	256994.03	4085243.96	0.000014254	2.06E-04	1.52E-04	1.52E-04	8.47E-05	2.16E-06	3.14E-05	2.37E-05	2.37E-05	1.30E-05	1.17E-06	1.70E-05	1.06E-05	1.06E-05	5.22E-06
2467	256983.88	4085221.91	0.000013313	1.93E-04	1.42E-04	1.42E-04	7.91E-05	2.02E-06	2.93E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.86E-06	9.86E-06	4.88E-06
2468	256973.72	4085199.87	0.000012547	1.81E-04	1.34E-04	1.34E-04	7.46E-05	1.90E-06	2.76E-05	2.09E-05	2.09E-05	1.15E-05	1.03E-06	1.50E-05	9.29E-06	9.29E-06	4.60E-06
2469	257589.71	4085755.01	0.000029777	4.31E-04	3.17E-04	3.17E-04	1.77E-04	4.52E-06	6.56E-05	4.96E-05	4.96E-05	2.72E-05	2.45E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
2470	257613.99	4085753.94	0.000029814	4.31E-04	3.18E-04	3.18E-04	1.77E-04	4.52E-06	6.57E-05	4.96E-05	4.96E-05	2.73E-05	2.46E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
2471	257638.27	4085752.86	0.000029804	4.31E-04	3.18E-04	3.18E-04	1.77E-04	4.52E-06	6.57E-05	4.96E-05	4.96E-05	2.73E-05	2.46E-06	3.55E-05	2.21E-05	2.21E-05	1.09E-05
2472	257662.55	4085751.79	0.000029739	4.30E-04	3.17E-04	3.17E-04	1.77E-04	4.51E-06	6.55E-05	4.95E-05	4.95E-05	2.72E-05	2.45E-06	3.55E-05	2.20E-05	2.20E-05	1.09E-05
2473	257686.84	4085750.71	0.000029618	4.28E-04	3.16E-04	3.16E-04	1.76E-04	4.50E-06	6.53E-05	4.93E-05	4.93E-05	2.71E-05	2.44E-06	3.53E-05	2.19E-05	2.19E-05	1.09E-05
2474	257711.12	4085749.64	0.000029435	4.26E-04	3.14E-04	3.14E-04	1.75E-04	4.47E-06	6.49E-05	4.90E-05	4.90E-05	2.69E-05	2.43E-06	3.51E-05	2.18E-05	2.18E-05	1.08E-05
2475	257735.4	4085748.56	0.000029198	4.22E-04	3.11E-04	3.11E-04	1.74E-04	4.43E-06	6.43E-05	4.86E-05	4.86E-05	2.67E-05	2.41E-06	3.48E-05	2.16E-05	2.16E-05	1.07E-05
2476	257759.68	4085747.48	0.000028905	4.18E-04	3.08E-04	3.08E-04	1.72E-04	4.39E-06	6.37E-05	4.81E-05	4.81E-05	2.65E-05	2.38E-06	3.45E-05	2.14E-05	2.14E-05	1.06E-05
2477	257783.96	4085746.41	0.000028566	4.13E-04	3.05E-04	3.05E-04	1.70E-04	4.34E-06	6.29E-05	4.75E-05	4.75E-05	2.61E-05	2.35E-06	3.41E-05	2.12E-05	2.12E-05	1.05E-05
2478	257808.24	4085745.33	0.000028136	4.07E-04	3.00E-04	3.00E-04	1.67E-04	4.27E-06	6.20E-05	4.68E-05	4.68E-05	2.57E-05	2.32E-06	3.35E-05	2.08E-05	2.08E-05	1.03E-05
2479	257832.53	4085744.26	0.00002762	3.99E-04	2.94E-04	2.94E-04	1.64E-04	4.19E-06	6.09E-05	4.60E-05	4.60E-05	2.53E-05	2.28E-06	3.29E-05	2.05E-05	2.05E-05	1.01E-05
2480	257856.81	4085743.18	0.000027159	3.93E-04	2.90E-04	2.90E-04	1.61E-04	4.12E-06	5.98E-05	4.52E-05	4.52E-05	2.49E-05	2.24E-06	3.24E-05	2.01E-05	2.01E-05	9.96E-06
2481	257881.09	4085742.11	0.000026689	3.86E-04	2.85E-04	2.85E-04	1.59E-04	4.05E-06	5.88E-05	4.44E-05	4.44E-05	2.44E-05	2.20E-06	3.18E-05	1.98E-05	1.98E-05	9.78E-06
2482	257905.37	4085741.03	0.000026177	3.79E-04	2.79E-04	2.79E-04	1.56E-04	3.97E-06	5.77E-05	4.36E-05	4.36E-05	2.40E-05	2.16E-06	3.12E-05	1.94E-05	1.94E-05	9.60E-06
2483	257929.65	4085739.96	0.000025614	3.70E-04	2.73E-04	2.73E-04	1.52E-04	3.89E-06	5.64E-05	4.26E-05	4.26E-05	2.34E-05	2.11E-06	3.05E-05	1.90E-05	1.90E-05	9.39E-06
2484	257953.94	4085738.88	0.000024995	3.62E-04	2.66E-04	2.66E-04	1.49E-04	3.79E-06	5.51E-05	4.16E-05	4.16E-05	2.29E-05	2.06E-06	2.98E-05	1.85E-05	1.85E-05	9.16E-06
2485	257978.22	4085737.81	0.000024329	3.52E-04	2.59E-04	2.59E-04	1.45E-04	3.69E-06	5.36E-05	4.05E-05	4.05E-05	2.23E-05	2.01E-06	2.90E-05	1.80E-05	1.80E-05	8.92E-06
2486	258002.5	4085736.73	0.000023632	3.42E-04	2.52E-04	2.52E-04	1.40E-04	3.59E-06	5.21E-05	3.93E-05	3.93E-05	2.16E-05	1.95E-06	2.82E-05	1.75E-05	1.75E-05	8.66E-06
2487	258026.78	4085735.65	0.000022921	3.32E-04	2.44E-04	2.44E-04	1.36E-04	3.48E-06	5.05E-05	3.82E-05	3.82E-05	2.10E-05	1.89E-06	2.73E-05	1.70E-05	1.70E-05	8.40E-06
2488	258051.06	4085734.58	0.000022214	3.21E-04	2.37E-04	2.37E-04	1.32E-04	3.37E-06	4.89E-05	3.70E-05	3.70E-05	2.03E-05	1.83E-06	2.65E-05	1.65E-05	1.65E-05	8.14E-06
2489	258075.34	4085733.5	0.000021528	3.11E-04	2.29E-04	2.29E-04	1.28E-04	3.27E-06	4.74E-05	3.58E-05	3.58E-05	1.97E-05	1.77E-06	2.57E-05	1.59E-05	1.59E-05	7.89E-06
2490	258099.63	4085732.43	0.000020858	3.02E-04	2.22E-04	2.22E-04	1.24E-04	3.17E-06	4.60E-05	3.47E-05	3.47E-05	1.91E-05	1.72E-06	2.49E-05	1.54E-05	1.54E-05	7.65E-06
2491	258123.91	4085731.35	0.000020204	2.92E-04	2.15E-04	2.15E-04	1.20E-04	3.07E-06	4.45E-05	3.36E-05	3.36E-05	1.85E-05	1.67E-06	2.41E-05	1.50E-05	1.50E-05	7.41E-06
2492	258148.19	4085730.28	0.00001955	2.83E-04	2.08E-04	2.08E-04	1.16E-04	2.97E-06	4.31E-05	3.25E-05	3.25E-05	1.79E-05	1.61E-06	2.33E-05	1.45E-05	1.45E-05	7.17E-06
2493	258172.47	4085729.2	0.000018887	2.73E-04	2.01E-04	2.01E-04	1.12E-04	2.87E-06	4.16E-05	3.14E-05	3.14E-05	1.73E-05	1.56E-06	2.25E-05	1.40E-05	1.40E-05	6.92E-06
2494	258196.75	4085728.13	0.000018208	2.63E-04	1.94E-04	1.94E-04	1.08E-04	2.76E-06	4.01E-05	3.03E-05	3.03E-05	1.67E-05	1.50E-06	2.17E-05	1.35E-05	1.35E-05	6.67E-06
2495	258221.04	4085727.05	0.000017514	2.53E-04	1.87E-04	1.87E-04	1.04E-04	2.66E-06	3.86E-05	2.92E-05	2.92E-05	1.60E-05	1.44E-06	2.09E-05	1.30E-05	1.30E-05	6.42E-06
2496	258245.32	4085725.98	0.000016815	2.43E-04	1.79E-04	1.79E-04	9.99E-05	2.55E-06	3.71E-05	2.80E-05	2.80E-05	1.54E-05	1.39E-06	2.00E-05	1.25E-05	1.25E-05	6.16E-06
2497	258269.6	4085724.9	0.00001612	2.33E-04	1.72E-04	1.72E-04	9.58E-05	2.45E-06	3.55E-05	2.68E-05	2.68E-05	1.48E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.91E-06
2498	258293.88	4085723.82	0.000015438	2.23E-04	1.65E-04	1.65E-04	9.18E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.66E-06
2499	258318.16	4085722.75	0.00001477	2.14E-04	1.57E-04	1.57E-04	8.78E-05	2.24E-06	3.25E-05	2.46E-05	2.46E-05	1.35E-05	1.22E-06	1.76E-05	1.09E-05	1.09E-05	5.41E-06
2500	258342.44	4085721.67	0.000014116	2.04E-04	1.50E-04	1.50E-04	8.39E-05	2.14E-06	3.11E-05	2.35E-05	2.35E-05	1.29E-05	1.16E-06	1.68E-05	1.05E-05	1.05E-05	5.17E-06
2501	258366.73	4085720.6	0.000013485	1.95E-04	1.44E-04	1.44E-04	8.01E-05	2.05E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.61E-05	9.99E-06	9.99E-06	4.94E-06
2502	258391.01	4085719.52	0.000012883	1.86E-04	1.37E-04	1.37E-04	7.66E-05	1.96E-06	2.84E-05	2.14E-05	2.14E-05	1.18E-05	1.06E-06	1.54E-05	9.54E-06	9.54E-06	4.72E-06
2503	257572.16	4085846.89	0.000024065	3.48E-04	2.57E-04	2.57E-04	1.43E-04	3.65E-06	5.30E-05	4.01E-05	4.01E-05	2.20E-05	1.98E-06	2.87E-05	1.78E-05	1.78E-05	8.82E-06
2504	257550.18	4085838.86	0.000024499	3.54E-04	2.61E-04	2.61E-04	1.46E-04	3.72E-06	5.40E-05	4.08E-05	4.08E-05	2.24E-05	2.02E-06	2.92E-05	1.81E-05	1.81E-05	8.98E-06
2505	257528.21	4085830.83	0.000024917	3.60E-04	2.66E-04	2.66E-04	1.48E-04	3.78E-06	5.49E-05	4.15E-05	4.15E-05	2.28E-05	2.05E-06	2.97E-05	1.85E-05	1.85E-05	9.13E-06
2506	257506.23	4085822.8	0.000025321	3.66E-04	2.70E-04	2.70E-04	1.50E-04	3.84E-06	5.58E-05	4.21E-05	4.21E-05	2.32E-05	2.09E-06	3.02E-05	1.88E-05	1.88E-05	9.28E-06
2507	257484.26	4085814.78	0.000025704	3.72E-04	2.74E-04	2.74E-04	1.53E-04	3.90E-06	5.66E-05	4.28E-05	4.28E-05	2.35E-05	2.12E-06	3.06E-05	1.90E-05	1.90E-05	9.42E-06
2508	257462.28	4085806.75	0.000026067	3.77E-04	2.78E-04	2.78E-04	1.55E-04	3.96E-06	5.74E-05	4.34E-05	4.34E-05	2.39E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.56E-06
2509	257440.31	4085798.72	0.000026407	3.82E-04	2.82E-04	2.82E-04	1.57E-04	4.01E-06	5.82E-05	4.40E-05	4.40E-05	2.42E-05	2.18E-06	3.15E-05	1.96E-05	1.96E-05	9.68E-06
2510	257418.33	4085790.69	0.000026722	3.87E-04	2.85E-04	2.85E-04	1.59E-04	4.06E-06	5.89E-05	4.45E-05	4.45E-05	2.45E-05	2.20E-06	3.19E-05	1.98E-05	1.98E-05	9.80E-06
2511	257396.36	4085782.67	0.000027017	3.91E-04	2.88E-04	2.88E-04	1.61E-04	4.10E-06	5.95E-05	4.50E-05	4.50E-05	2.47E-05	2.23E-06	3.22E-05	2.00E-05	2.00E-05	9.90E-06
2512	257374.38	4085774.64	0.000027294	3.95E-04	2.91E-04	2.91E-04	1.62E-04	4.14E-06	6.01E-05	4.54E-05	4.54E-05	2.50E-05	2.25E-06	3.25E-05	2.02E-05	2.02E-05	1.00E-05
2513	257352.41	4085766.61	0.000027548	3.98E-04	2.94E-04	2.94E-04	1.64E-04	4.18E-06	6.07E-05	4.59E-05	4.59E-05	2.52E-05	2.27E-06	3.28E-05	2.04E-05	2.04E-05	1.01E-05
2514	257330.43	4085758.58	0.000027763	4.02E-04	2.96E-04	2.96E-04	1.65E-04	4.21E-06	6.12E-05	4.62E-05	4.62E-05	2.54E-05	2.29E-06	3.31E-05	2.06E-05	2.06E-05	1.02E-05
2515	257308.46	4085750.56	0.000027917	4.04E-04	2.98E-04	2.98E-04	1.66E-04	4.24E-06	6.15E-05	4.65E-05	4.65E-05	2.55E-05	2.30E-06	3.33E-05	2.07E-05	2.07E-05	1.02E-05
2516	257286.48	4085742.53	0.000027991	4.05E-04	2.98E-04	2.98E-04	1.66E-04	4.25E-06	6.17E-05	4.66E-05	4.66E-05	2.56E-05	2.31E-06	3.34E-05	2.07E-05	2.07E-05	1.03E-05
2517	257264.51	4085734.5	0.000027966	4.04E-04	2.98E-04	2.98E-04	1.66E-04	4.24E-06	6.16E-05	4.65E-05	4.65E-05	2.56E-05	2.31E-06	3.33E-05	2.07E-05	2.07E-05	1.03E-05
2518	257242.53	4085726.47	0.000027845	4.03E-04	2.97E-04	2.97E-04	1.65E-04	4.23E-06	6.14E-05	4.63E-05	4.63E-05	2.55E-05	2.30E-06	3.32E-05	2.06E-05	2.06E-05	1.02E-05
2519	257220.56	4085718.45	0.000027683	4.00E-04	2.95E-04	2.95E-04	1.65E-04	4.20E-06	6.10E-05	4.61E-05	4.61E-05	2.53E-05	2.28E-06	3.30E-05	2.05E-05	2.05E-05	1.01E-05
2520	257198.58	4085710.42	0.000027444	3.97E-04	2.93E-04	2.93E-04	1.63E-04	4.17E-06	6.05E-05	4.57E-05	4.57E-05	2.51E-05	2.26E-06	3.27E-05	2.03E-05	2.03E-05	1.01E-05
2521	257176.61	4085702.39	0.00002713	3.92E-04	2.89E-04	2.89E-04	1.61E-04	4.12E-06	5.98E-05	4.52E-05	4.52E-05	2.48E-05	2.24E-06	3.23E-05	2.01E-05	2.01E-05	9.95E-06
2522	257154.63	4085694.36	0.000026788	3.87E-04	2.86E-04	2.86E-04	1.59E-04	4.07E-06	5.90E-05	4.46E-05	4.46E-05	2.45E-05	2.21E-06	3.19E-05	1.98E-05	1.98E-05	9.82E-06
2523	257132.66	4085686.34	0.000026427	3.82E-04	2.82E-04	2.82E-04	1.57E-04	4.01E-06	5.82E-05	4.40E-05	4.40E-05	2.42E-05	2.18E-06	3.15E-05	1.96E-05	1.96E-05	9.69E-06
2524	257110.68	4085678.31	0.000026044	3.77E-04	2.78E-04	2.78E-04	1.55E-04	3.95E-06	5.74E-05	4.34E-05	4.34E-05	2.38E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.55E-06
2525	257078.92	4085649.03	0.000025925	3.75E-04	2.76E-04	2.76E-04	1.54E-04	3.93E-06	5.71E-05	4.32E-05	4.32E-05	2.37E-05	2.14E-06	3.09E-05	1.92E-05	1.92E-05	9.50E-06
2526	257069.14	4085627.78	0.000026122	3.78E-04	2.78E-04	2.78E-04	1.55E-04	3.96E-06	5.76E-05	4.35E-05	4.35E-05	2.39E-05	2.15E-06	3.11E-05	1.93E-05	1.93E-05	9.58E-06
2527	257059.35	4085606.53	0.0000262	3.79E-04	2.79E-04	2.79E-04	1.56E-04	3.98E-06	5.77E-05	4.36E-05	4.36E-05	2.40E-05	2.16E-06	3.12E-05	1.94E-05	1.94E-05	9.60E-06
2528	257049.57	4085585.28	0.000026138	3.78E-04	2.79E-04	2.79E-04	1.55E-04	3.97E-06	5.76E-05	4.35E-05	4.35E-05	2.39E-05	2.15E-06	3.12E-05	1.94E-05	1.94E-05	9.58E-06
2529	257039.78	4085564.03	0.000025909	3.75E-04	2.76E-04	2.76E-04	1.54E-04	3.93E-06	5.71E-05	4.31E-05	4.31E-05	2.37E-05	2.14E-06	3.09E-05	1.92E-05	1.92E-05	9.50E-06
2530	257029.99	4085542.78	0.000025501	3.69E-04	2.72E-04	2.72E-04	1.52E-04	3.87E-06	5.62E-05	4.24E-05	4.24E-05	2.33E-05	2.10E-06	3.04E-05	1.89E-05	1.89E-05	9.35E-06
2531	257020.21	4085521.53	0.000024901	3.60E-04	2.65E-04	2.65E-04	1.48E-04	3.78E-06	5.49E-05	4.14E-05	4.14E-05	2.28E-05	2.05E-06	2.97E-05	1.84E-05	1.84E-05	9.13E-06
2532	257010.42	4085500.28	0.00002411	3.49E-04	2.57E-04	2.57E-04	1.43E-04	3.66E-06	5.31E-05	4.01E-05	4.01E-05	2.21E-05	1.99E-06	2.87E-05	1.79E-05	1.79E-05	8.84E-06
2533	257000.64	4085479.03	0.000023136	3.35E-04	2.47E-04	2.47E-04	1.38E-04	3.51E-06	5.10E-05	3.85E-05	3.85E-05	2.12E-05	1.91E-06	2.76E-05	1.71E-05	1.71E-05	8.48E-06
2534	256990.85	4085457.78	0.000022001	3.18E-04	2.35E-04	2.35E-04	1.31E-04	3.34E-06	4.85E-05	3.66E-05	3.66E-05	2.01E-05	1.81E-06	2.62E-05	1.63E-05	1.63E-05	8.06E-06
2535	256981.07	4085436.52	0.000020741	3.00E-04	2.21E-04	2.21E-04	1.23E-04	3.15E-06	4.57E-05	3.45E-05	3.45E-05	1.90E-05	1.71E-06	2.47E-05	1.54E-05	1.54E-05	7.60E-06
2536	256971.28	4085415.27	0.000019399	2.81E-04	2.07E-04	2.07E-04	1.15E-04	2.94E-06	4.27E-05	3.23E-05	3.23E-05	1.78E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.11E-06
2537	256961.5	4085394.02	0.000018028	2.61E-04	1.92E-04	1.92E-04	1.07E-04	2.74E-06	3.97E-05	3.00E-05	3.00E-05	1.65E-05	1.49E-06	2.15E-05	1.34E-05	1.34E-05	6.61E-06
2538	256951.71	4085372.77	0.000016684	2.41E-04	1.78E-04	1.78E-04	9.92E-05	2.53E-06	3.68E-05	2.78E-05	2.78E-05	1.53E-05	1.38E-06	1.99E-05	1.24E-05	1.24E-05	6.12E-06
2539	256941.92	4085351.52	0.000015415	2.23E-04	1.64E-04	1.64E-04	9.16E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.65E-06
2540	256932.14	4085330.27	0.000014258	2.06E-04	1.52E-04	1.52E-04	8.47E-05	2.16E-06	3.14E-05	2.37E-05	2.37E-05	1.30E-05	1.18E-06	1.70E-05	1.06E-05	1.06E-05	5.23E-06
2541	256922.35	4085309.02	0.000013225	1.91E-04	1.41E-04	1.41E-04	7.86E-05	2.01E-06	2.91E-05	2.20E-05	2.20E-05	1.21E-05	1.09E-06	1.58E-05	9.79E-06	9.79E-06	4.85E-06
2542	256912.57	4085287.77	0.000012342	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2543	256902.78	4085266.52	0.0000116	1.68E-04	1.24E-04	1.24E-04	6.89E-05	1.76E-06	2.56E-05	1.93E-05	1.93E-05	1.06E-05	9.56E-07	1.38E-05	8.59E-06	8.59E-06	4.25E-06
2544	256893	4085245.27	0.000010979	1.59E-04	1.17E-04	1.17E-04	6.53E-05	1.67E-06	2.42E-05	1.83E-05	1.83E-05	1.00E-05	9.05E-07	1.31E-05	8.13E-06	8.13E-06	4.02E-06
2545	256883.21	4085224.02	0.000010463	1.51E-04	1.12E-04	1.12E-04	6.22E-05	1.59E-06	2.31E-05	1.74E-05	1.74E-05	9.57E-06	8.62E-07	1.25E-05	7.75E-06	7.75E-06	3.84E-06
2546	256873.43	4085202.77	0.000010028	1.45E-04	1.07E-04	1.07E-04	5.96E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.18E-06	8.27E-07	1.20E-05	7.43E-06	7.43E-06	3.68E-06
2547	257594.13	4085854.91	0.000023614	3.42E-04	2.52E-04	2.52E-04	1.40E-04	3.58E-06	5.20E-05	3.93E-05	3.93E-05	2.16E-05	1.95E-06	2.82E-05	1.75E-05	1.75E-05	8.66E-06
2548	257618.41	4085853.84	0.000023589	3.41E-04	2.51E-04	2.51E-04	1.40E-04	3.58E-06	5.20E-05	3.93E-05	3.93E-05	2.16E-05	1.94E-06	2.81E-05	1.75E-05	1.75E-05	8.65E-06
2549	257642.7	4085852.76	0.00002353	3.40E-04	2.51E-04	2.51E-04	1.40E-04	3.57E-06	5.18E-05	3.92E-05	3.92E-05	2.15E-05	1.94E-06	2.81E-05	1.74E-05	1.74E-05	8.63E-06
2550	257666.98	4085851.69	0.000023429	3.39E-04	2.50E-04	2.50E-04	1.39E-04	3.56E-06	5.16E-05	3.90E-05	3.90E-05	2.14E-05	1.93E-06	2.79E-05	1.74E-05	1.74E-05	8.59E-06
2551	257691.26	4085850.61	0.000023286	3.37E-04	2.48E-04	2.48E-04	1.38E-04	3.53E-06	5.13E-05	3.88E-05	3.88E-05	2.13E-05	1.92E-06	2.78E-05	1.72E-05	1.72E-05	8.54E-06
2552	257715.54	4085849.54	0.000023095	3.34E-04	2.46E-04	2.46E-04	1.37E-04	3.51E-06	5.09E-05	3.84E-05	3.84E-05	2.11E-05	1.90E-06	2.75E-05	1.71E-05	1.71E-05	8.47E-06
2553	257739.82	4085848.46	0.000022852	3.31E-04	2.44E-04	2.44E-04	1.36E-04	3.47E-06	5.04E-05	3.80E-05	3.80E-05	2.09E-05	1.88E-06	2.72E-05	1.69E-05	1.69E-05	8.38E-06
2554	257764.11	4085847.39	0.000022452	3.25E-04	2.39E-04	2.39E-04	1.33E-04	3.41E-06	4.95E-05	3.74E-05	3.74E-05	2.05E-05	1.85E-06	2.68E-05	1.66E-05	1.66E-05	8.23E-06
2555	257788.39	4085846.31	0.000022104	3.20E-04	2.36E-04	2.36E-04	1.31E-04	3.35E-06	4.87E-05	3.68E-05	3.68E-05	2.02E-05	1.82E-06	2.64E-05	1.64E-05	1.64E-05	8.10E-06
2556	257812.67	4085845.24	0.000021737	3.14E-04	2.32E-04	2.32E-04	1.29E-04	3.30E-06	4.79E-05	3.62E-05	3.62E-05	1.99E-05	1.79E-06	2.59E-05	1.61E-05	1.61E-05	7.97E-06
2557	257836.95	4085844.16	0.000021339	3.09E-04	2.27E-04	2.27E-04	1.27E-04	3.24E-06	4.70E-05	3.55E-05	3.55E-05	1.95E-05	1.76E-06	2.54E-05	1.58E-05	1.58E-05	7.82E-06
2558	257861.23	4085843.08	0.000020917	3.03E-04	2.23E-04	2.23E-04	1.24E-04	3.17E-06	4.61E-05	3.48E-05	3.48E-05	1.91E-05	1.72E-06	2.49E-05	1.55E-05	1.55E-05	7.67E-06
2559	257885.51	4085842.01	0.000020475	2.96E-04	2.18E-04	2.18E-04	1.22E-04	3.11E-06	4.51E-05	3.41E-05	3.41E-05	1.87E-05	1.69E-06	2.44E-05	1.52E-05	1.52E-05	7.51E-06
2560	257909.8	4085840.93	0.000020018	2.90E-04	2.13E-04	2.13E-04	1.19E-04	3.04E-06	4.41E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.39E-05	1.48E-05	1.48E-05	7.34E-06
2561	257934.08	4085839.86	0.000019552	2.83E-04	2.08E-04	2.08E-04	1.16E-04	2.97E-06	4.31E-05	3.25E-05	3.25E-05	1.79E-05	1.61E-06	2.33E-05	1.45E-05	1.45E-05	7.17E-06
2562	257958.36	4085838.78	0.000019085	2.76E-04	2.03E-04	2.03E-04	1.13E-04	2.90E-06	4.21E-05	3.18E-05	3.18E-05	1.75E-05	1.57E-06	2.28E-05	1.41E-05	1.41E-05	7.00E-06
2563	257982.64	4085837.71	0.000018616	2.69E-04	1.98E-04	1.98E-04	1.11E-04	2.83E-06	4.10E-05	3.10E-05	3.10E-05	1.70E-05	1.53E-06	2.22E-05	1.38E-05	1.38E-05	6.82E-06
2564	258006.92	4085836.63	0.000018155	2.63E-04	1.94E-04	1.94E-04	1.08E-04	2.76E-06	4.00E-05	3.02E-05	3.02E-05	1.66E-05	1.50E-06	2.16E-05	1.34E-05	1.34E-05	6.66E-06
2565	258031.21	4085835.56	0.0000177	2.56E-04	1.89E-04	1.89E-04	1.05E-04	2.69E-06	3.90E-05	2.95E-05	2.95E-05	1.62E-05	1.46E-06	2.11E-05	1.31E-05	1.31E-05	6.49E-06
2566	258055.49	4085834.48	0.000017253	2.50E-04	1.84E-04	1.84E-04	1.03E-04	2.62E-06	3.80E-05	2.87E-05	2.87E-05	1.58E-05	1.42E-06	2.06E-05	1.28E-05	1.28E-05	6.32E-06
2567	258079.77	4085833.41	0.000016811	2.43E-04	1.79E-04	1.79E-04	9.99E-05	2.55E-06	3.70E-05	2.80E-05	2.80E-05	1.54E-05	1.39E-06	2.00E-05	1.24E-05	1.24E-05	6.16E-06
2568	258104.05	4085832.33	0.000016366	2.37E-04	1.74E-04	1.74E-04	9.73E-05	2.48E-06	3.61E-05	2.72E-05	2.72E-05	1.50E-05	1.35E-06	1.95E-05	1.21E-05	1.21E-05	6.00E-06
2569	258128.33	4085831.25	0.000015909	2.30E-04	1.70E-04	1.70E-04	9.46E-05	2.41E-06	3.51E-05	2.65E-05	2.65E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.83E-06
2570	258152.61	4085830.18	0.000015438	2.23E-04	1.65E-04	1.65E-04	9.18E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.66E-06

2571	258176.9	4085829.1	0.000014952	2.16E-04	1.59E-04	1.59E-04	8.89E-05	2.27E-06	3.29E-05	2.49E-05	2.49E-05	1.37E-05	1.23E-06	1.78E-05	1.11E-05	1.11E-05	5.48E-06
2572	258201.18	4085828.03	0.000014454	2.09E-04	1.54E-04	1.54E-04	8.59E-05	2.19E-06	3.18E-05	2.41E-05	2.41E-05	1.32E-05	1.19E-06	1.72E-05	1.07E-05	1.07E-05	5.30E-06
2573	258225.46	4085826.95	0.000013954	2.02E-04	1.49E-04	1.49E-04	8.29E-05	2.12E-06	3.07E-05	2.32E-05	2.32E-05	1.28E-05	1.15E-06	1.66E-05	1.03E-05	1.03E-05	5.12E-06
2574	258249.74	4085825.88	0.000013456	1.95E-04	1.43E-04	1.43E-04	8.00E-05	2.04E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.60E-05	9.97E-06	9.97E-06	4.93E-06
2575	258274.02	4085824.8	0.000012967	1.88E-04	1.38E-04	1.38E-04	7.71E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.60E-06	9.60E-06	4.75E-06
2576	258298.31	4085823.73	0.000012487	1.81E-04	1.33E-04	1.33E-04	7.42E-05	1.90E-06	2.75E-05	2.08E-05	2.08E-05	1.14E-05	1.03E-06	1.49E-05	9.25E-06	9.25E-06	4.58E-06
2577	258322.59	4085822.65	0.000012016	1.74E-04	1.28E-04	1.28E-04	7.14E-05	1.82E-06	2.65E-05	2.00E-05	2.00E-05	1.10E-05	9.90E-07	1.43E-05	8.90E-06	8.90E-06	4.40E-06
2578	258346.87	4085821.58	0.000011555	1.67E-04	1.23E-04	1.23E-04	6.87E-05	1.75E-06	2.55E-05	1.92E-05	1.92E-05	1.06E-05	9.52E-07	1.38E-05	8.56E-06	8.56E-06	4.24E-06
2579	258371.15	4085820.5	0.000011106	1.61E-04	1.18E-04	1.18E-04	6.60E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.15E-07	1.32E-05	8.23E-06	8.23E-06	4.07E-06
2580	258395.43	4085819.42	0.000010672	1.54E-04	1.14E-04	1.14E-04	6.34E-05	1.62E-06	2.35E-05	1.78E-05	1.78E-05	9.77E-06	8.80E-07	1.27E-05	7.90E-06	7.90E-06	3.91E-06
2581	257580.57	4086046.53	0.000016362	2.37E-04	1.74E-04	1.74E-04	9.72E-05	2.48E-06	3.61E-05	2.72E-05	2.72E-05	1.50E-05	1.35E-06	1.95E-05	1.21E-05	1.21E-05	6.00E-06
2582	257558.17	4086038.35	0.000016686	2.41E-04	1.78E-04	1.78E-04	9.92E-05	2.53E-06	3.68E-05	2.78E-05	2.78E-05	1.53E-05	1.38E-06	1.99E-05	1.24E-05	1.24E-05	6.12E-06
2583	257535.76	4086030.16	0.00001702	2.46E-04	1.81E-04	1.81E-04	1.01E-04	2.58E-06	3.75E-05	2.83E-05	2.83E-05	1.56E-05	1.40E-06	2.03E-05	1.26E-05	1.26E-05	6.24E-06
2584	257513.35	4086021.98	0.000017301	2.50E-04	1.84E-04	1.84E-04	1.03E-04	2.63E-06	3.81E-05	2.88E-05	2.88E-05	1.58E-05	1.43E-06	2.06E-05	1.28E-05	1.28E-05	6.34E-06
2585	257490.94	4086013.79	0.000017563	2.54E-04	1.87E-04	1.87E-04	1.04E-04	2.67E-06	3.87E-05	2.92E-05	2.92E-05	1.61E-05	1.45E-06	2.09E-05	1.30E-05	1.30E-05	6.44E-06
2586	257468.53	4086005.6	0.000017811	2.58E-04	1.90E-04	1.90E-04	1.06E-04	2.70E-06	3.92E-05	2.96E-05	2.96E-05	1.63E-05	1.47E-06	2.12E-05	1.32E-05	1.32E-05	6.53E-06
2587	257446.13	4085997.42	0.000018044	2.61E-04	1.92E-04	1.92E-04	1.07E-04	2.74E-06	3.98E-05	3.00E-05	3.00E-05	1.65E-05	1.49E-06	2.15E-05	1.34E-05	1.34E-05	6.61E-06
2588	257423.72	4085989.23	0.000018264	2.64E-04	1.95E-04	1.95E-04	1.09E-04	2.77E-06	4.02E-05	3.04E-05	3.04E-05	1.67E-05	1.51E-06	2.18E-05	1.35E-05	1.35E-05	6.69E-06
2589	257401.31	4085981.05	0.000018471	2.67E-04	1.97E-04	1.97E-04	1.10E-04	2.80E-06	4.07E-05	3.07E-05	3.07E-05	1.69E-05	1.52E-06	2.20E-05	1.37E-05	1.37E-05	6.77E-06
2590	257378.9	4085972.86	0.000018673	2.70E-04	1.99E-04	1.99E-04	1.11E-04	2.83E-06	4.11E-05	3.11E-05	3.11E-05	1.71E-05	1.54E-06	2.23E-05	1.38E-05	1.38E-05	6.85E-06
2591	257356.49	4085964.68	0.000018874	2.73E-04	2.01E-04	2.01E-04	1.12E-04	2.86E-06	4.16E-05	3.14E-05	3.14E-05	1.73E-05	1.56E-06	2.25E-05	1.40E-05	1.40E-05	6.92E-06
2592	257334.09	4085956.49	0.000019079	2.76E-04	2.03E-04	2.03E-04	1.13E-04	2.90E-06	4.20E-05	3.18E-05	3.18E-05	1.75E-05	1.57E-06	2.27E-05	1.41E-05	1.41E-05	6.99E-06
2593	257311.68	4085948.3	0.000019286	2.79E-04	2.06E-04	2.06E-04	1.15E-04	2.93E-06	4.25E-05	3.21E-05	3.21E-05	1.76E-05	1.59E-06	2.30E-05	1.43E-05	1.43E-05	7.07E-06
2594	257289.27	4085940.12	0.000019493	2.82E-04	2.08E-04	2.08E-04	1.16E-04	2.96E-06	4.30E-05	3.24E-05	3.24E-05	1.78E-05	1.61E-06	2.32E-05	1.44E-05	1.44E-05	7.15E-06
2595	257266.86	4085931.93	0.00001969	2.85E-04	2.10E-04	2.10E-04	1.17E-04	2.99E-06	4.34E-05	3.28E-05	3.28E-05	1.80E-05	1.62E-06	2.35E-05	1.46E-05	1.46E-05	7.22E-06
2596	257244.45	4085923.75	0.000019864	2.87E-04	2.12E-04	2.12E-04	1.18E-04	3.01E-06	4.38E-05	3.31E-05	3.31E-05	1.82E-05	1.64E-06	2.37E-05	1.47E-05	1.47E-05	7.28E-06
2597	257222.05	4085915.56	0.000020001	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.04E-06	4.41E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.38E-05	1.48E-05	1.48E-05	7.33E-06
2598	257199.64	4085907.37	0.000020089	2.91E-04	2.14E-04	2.14E-04	1.19E-04	3.05E-06	4.43E-05	3.34E-05	3.34E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.36E-06
2599	257177.23	4085899.19	0.000020124	2.91E-04	2.15E-04	2.15E-04	1.20E-04	3.05E-06	4.43E-05	3.35E-05	3.35E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.38E-06
2600	257154.82	4085891	0.000020106	2.91E-04	2.14E-04	2.14E-04	1.19E-04	3.05E-06	4.43E-05	3.35E-05	3.35E-05	1.84E-05	1.66E-06	2.40E-05	1.49E-05	1.49E-05	7.37E-06
2601	257132.41	4085882.82	0.000020046	2.90E-04	2.14E-04	2.14E-04	1.19E-04	3.04E-06	4.42E-05	3.34E-05	3.34E-05	1.83E-05	1.65E-06	2.39E-05	1.48E-05	1.48E-05	7.35E-06
2602	257110.01	4085874.63	0.000019956	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.03E-06	4.40E-05	3.32E-05	3.32E-05	1.83E-05	1.64E-06	2.38E-05	1.48E-05	1.48E-05	7.32E-06
2603	257087.6	4085866.45	0.00001985	2.87E-04	2.12E-04	2.12E-04	1.18E-04	3.01E-06	4.37E-05	3.30E-05	3.30E-05	1.82E-05	1.64E-06	2.37E-05	1.47E-05	1.47E-05	7.28E-06
2604	257065.19	4085858.26	0.000019735	2.85E-04	2.10E-04	2.10E-04	1.17E-04	3.00E-06	4.35E-05	3.28E-05	3.28E-05	1.81E-05	1.63E-06	2.35E-05	1.46E-05	1.46E-05	7.23E-06
2605	257042.78	4085850.07	0.00001962	2.84E-04	2.09E-04	2.09E-04	1.17E-04	2.98E-06	4.32E-05	3.27E-05	3.27E-05	1.80E-05	1.62E-06	2.34E-05	1.45E-05	1.45E-05	7.19E-06
2606	257020.37	4085841.89	0.000019501	2.82E-04	2.08E-04	2.08E-04	1.16E-04	2.96E-06	4.30E-05	3.25E-05	3.25E-05	1.78E-05	1.61E-06	2.33E-05	1.44E-05	1.44E-05	7.15E-06
2607	256997.97	4085833.7	0.00001938	2.80E-04	2.07E-04	2.07E-04	1.15E-04	2.94E-06	4.27E-05	3.23E-05	3.23E-05	1.77E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.10E-06
2608	256975.56	4085825.52	0.000019249	2.78E-04	2.05E-04	2.05E-04	1.14E-04	2.92E-06	4.24E-05	3.20E-05	3.20E-05	1.76E-05	1.59E-06	2.29E-05	1.43E-05	1.43E-05	7.06E-06
2609	256943.17	4085795.66	0.000019389	2.80E-04	2.07E-04	2.07E-04	1.15E-04	2.94E-06	4.27E-05	3.23E-05	3.23E-05	1.77E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.11E-06
2610	256933.19	4085773.99	0.000019643	2.84E-04	2.09E-04	2.09E-04	1.17E-04	2.98E-06	4.33E-05	3.27E-05	3.27E-05	1.80E-05	1.62E-06	2.34E-05	1.45E-05	1.45E-05	7.20E-06
2611	256923.22	4085752.32	0.000019856	2.87E-04	2.12E-04	2.12E-04	1.18E-04	3.01E-06	4.38E-05	3.31E-05	3.31E-05	1.82E-05	1.64E-06	2.37E-05	1.47E-05	1.47E-05	7.28E-06
2612	256913.24	4085730.65	0.000019966	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.03E-06	4.40E-05	3.32E-05	3.32E-05	1.83E-05	1.65E-06	2.38E-05	1.48E-05	1.48E-05	7.32E-06
2613	256903.26	4085708.99	0.000019985	2.89E-04	2.13E-04	2.13E-04	1.19E-04	3.03E-06	4.40E-05	3.33E-05	3.33E-05	1.83E-05	1.65E-06	2.38E-05	1.48E-05	1.48E-05	7.33E-06
2614	256893.28	4085687.32	0.000019901	2.88E-04	2.12E-04	2.12E-04	1.18E-04	3.02E-06	4.38E-05	3.31E-05	3.31E-05	1.82E-05	1.64E-06	2.37E-05	1.47E-05	1.47E-05	7.30E-06
2615	256883.3	4085665.65	0.0000197	2.85E-04	2.10E-04	2.10E-04	1.17E-04	2.99E-06	4.34E-05	3.28E-05	3.28E-05	1.80E-05	1.62E-06	2.35E-05	1.46E-05	1.46E-05	7.22E-06
2616	256873.32	4085643.98	0.00001938	2.80E-04	2.07E-04	2.07E-04	1.15E-04	2.94E-06	4.27E-05	3.23E-05	3.23E-05	1.77E-05	1.60E-06	2.31E-05	1.44E-05	1.44E-05	7.10E-06
2617	256863.35	4085622.31	0.000018938	2.74E-04	2.02E-04	2.02E-04	1.13E-04	2.87E-06	4.17E-05	3.15E-05	3.15E-05	1.73E-05	1.56E-06	2.26E-05	1.40E-05	1.40E-05	6.94E-06
2618	256853.37	4085600.64	0.000018378	2.66E-04	1.96E-04	1.96E-04	1.09E-04	2.79E-06	4.05E-05	3.06E-05	3.06E-05	1.68E-05	1.51E-06	2.19E-05	1.36E-05	1.36E-05	6.74E-06
2619	256843.39	4085578.97	0.000017704	2.56E-04	1.89E-04	1.89E-04	1.05E-04	2.69E-06	3.90E-05	2.95E-05	2.95E-05	1.62E-05	1.46E-06	2.11E-05	1.31E-05	1.31E-05	6.49E-06
2620	256833.41	4085557.3	0.000016932	2.45E-04	1.81E-04	1.81E-04	1.01E-04	2.57E-06	3.73E-05	2.82E-05	2.82E-05	1.55E-05	1.40E-06	2.02E-05	1.25E-05	1.25E-05	6.21E-06
2621	256823.43	4085535.63	0.000016077	2.33E-04	1.71E-04	1.71E-04	9.56E-05	2.44E-06	3.54E-05	2.68E-05	2.68E-05	1.47E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.89E-06
2622	256813.45	4085513.96	0.000015161	2.19E-04	1.62E-04	1.62E-04	9.01E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.81E-05	1.12E-05	1.12E-05	5.56E-06
2623	256803.47	4085492.29	0.000014215	2.06E-04	1.52E-04	1.52E-04	8.45E-05	2.16E-06	3.13E-05	2.37E-05	2.37E-05	1.30E-05	1.17E-06	1.69E-05	1.05E-05	1.05E-05	5.21E-06
2624	256793.5	4085470.62	0.000013268	1.92E-04	1.41E-04	1.41E-04	7.89E-05	2.01E-06	2.92E-05	2.21E-05	2.21E-05	1.21E-05	1.09E-06	1.58E-05	9.83E-06	9.83E-06	4.86E-06
2625	256783.52	4085448.95	0.000012352	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.15E-06	9.15E-06	4.53E-06
2626	256773.54	4085427.29	0.000011495	1.66E-04	1.23E-04	1.23E-04	6.83E-05	1.74E-06	2.53E-05	1.91E-05	1.91E-05	1.05E-05	9.48E-07	1.37E-05	8.51E-06	8.51E-06	4.21E-06
2627	256763.56	4085405.62	0.000010719	1.55E-04	1.14E-04	1.14E-04	6.37E-05	1.63E-06	2.36E-05	1.78E-05	1.78E-05	9.81E-06	8.84E-07	1.28E-05	7.94E-06	7.94E-06	3.93E-06
2628	256753.58	4085383.95	0.000010036	1.45E-04	1.07E-04	1.07E-04	5.96E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.18E-06	8.27E-07	1.20E-05	7.43E-06	7.43E-06	3.68E-06
2629	256743.6	4085362.28	9.4504E-06	1.37E-04	1.01E-04	1.01E-04	5.62E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.65E-06	7.79E-07	1.13E-05	7.00E-06	7.00E-06	3.46E-06
2630	256733.63	4085340.61	8.9566E-06	1.30E-04	9.55E-05	9.55E-05	5.32E-05	1.36E-06	1.97E-05	1.49E-05	1.49E-05	8.20E-06	7.38E-07	1.07E-05	6.63E-06	6.63E-06	3.28E-06
2631	256723.65	4085318.94	8.5386E-06	1.24E-04	9.10E-05	9.10E-05	5.07E-05	1.30E-06	1.88E-05	1.42E-05	1.42E-05	7.81E-06	7.04E-07	1.02E-05	6.32E-06	6.32E-06	3.13E-06
2632	256713.67	4085297.27	8.1861E-06	1.18E-04	8.73E-05	8.73E-05	4.87E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.49E-06	6.75E-07	9.76E-06	6.06E-06	6.06E-06	3.00E-06
2633	256703.69	4085275.6	7.8829E-06	1.14E-04	8.40E-05	8.40E-05	4.69E-05	1.20E-06	1.74E-05	1.31E-05	1.31E-05	7.21E-06	6.50E-07	9.40E-06	5.84E-06	5.84E-06	2.89E-06
2634	256693.71	4085253.93	7.6144E-06	1.10E-04	8.12E-05	8.12E-05	4.53E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.97E-06	6.28E-07	9.08E-06	5.64E-06	5.64E-06	2.79E-06
2635	256683.73	4085232.26	7.3767E-06	1.07E-04	7.86E-05	7.86E-05	4.38E-05	1.12E-06	1.63E-05	1.23E-05	1.23E-05	6.75E-06	6.08E-07	8.79E-06	5.46E-06	5.46E-06	2.70E-06
2636	256673.76	4085210.59	7.1698E-06	1.04E-04	7.64E-05	7.64E-05	4.26E-05	1.09E-06	1.58E-05	1.19E-05	1.19E-05	6.56E-06	5.91E-07	8.55E-06	5.31E-06	5.31E-06	2.63E-06
2637	257602.98	4086054.72	0.000016034	2.32E-04	1.71E-04	1.71E-04	9.53E-05	2.43E-06	3.53E-05	2.67E-05	2.67E-05	1.47E-05	1.32E-06	1.91E-05	1.19E-05	1.19E-05	5.88E-06
2638	257627.26	4086053.64	0.00001594	2.31E-04	1.70E-04	1.70E-04	9.47E-05	2.42E-06	3.51E-05	2.65E-05	2.65E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.84E-06
2639	257651.55	4086052.57	0.000015819	2.29E-04	1.69E-04	1.69E-04	9.40E-05	2.40E-06	3.49E-05	2.63E-05	2.63E-05	1.45E-05	1.30E-06	1.89E-05	1.17E-05	1.17E-05	5.80E-06
2640	257675.83	4086051.49	0.000015674	2.27E-04	1.67E-04	1.67E-04	9.32E-05	2.38E-06	3.45E-05	2.61E-05	2.61E-05	1.43E-05	1.29E-06	1.87E-05	1.16E-05	1.16E-05	5.75E-06
2641	257700.11	4086050.42	0.000015499	2.24E-04	1.65E-04	1.65E-04	9.21E-05	2.35E-06	3.42E-05	2.58E-05	2.58E-05	1.42E-05	1.28E-06	1.85E-05	1.15E-05	1.15E-05	5.68E-06
2642	257724.39	4086049.34	0.000015296	2.21E-04	1.63E-04	1.63E-04	9.09E-05	2.32E-06	3.37E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.61E-06
2643	257748.67	4086048.27	0.000015061	2.18E-04	1.61E-04	1.61E-04	8.95E-05	2.29E-06	3.32E-05	2.51E-05	2.51E-05	1.38E-05	1.24E-06	1.80E-05	1.12E-05	1.12E-05	5.52E-06
2644	257772.96	4086047.19	0.000014799	2.14E-04	1.58E-04	1.58E-04	8.80E-05	2.25E-06	3.26E-05	2.46E-05	2.46E-05	1.35E-05	1.22E-06	1.76E-05	1.10E-05	1.10E-05	5.42E-06
2645	257797.24	4086046.11	0.00001451	2.10E-04	1.55E-04	1.55E-04	8.62E-05	2.20E-06	3.20E-05	2.42E-05	2.42E-05	1.33E-05	1.20E-06	1.73E-05	1.07E-05	1.07E-05	5.32E-06
2646	257821.52	4086045.04	0.000014202	2.05E-04	1.51E-04	1.51E-04	8.44E-05	2.16E-06	3.13E-05	2.36E-05	2.36E-05	1.30E-05	1.17E-06	1.69E-05	1.05E-05	1.05E-05	5.21E-06
2647	257845.8	4086043.96	0.000013885	2.01E-04	1.48E-04	1.48E-04	8.25E-05	2.11E-06	3.06E-05	2.31E-05	2.31E-05	1.27E-05	1.14E-06	1.66E-05	1.03E-05	1.03E-05	5.09E-06
2648	257870.08	4086042.89	0.000013567	1.96E-04	1.45E-04	1.45E-04	8.06E-05	2.06E-06	2.99E-05	2.26E-05	2.26E-05	1.24E-05	1.12E-06	1.62E-05	1.00E-05	1.00E-05	4.97E-06
2649	257894.36	4086041.81	0.00001326	1.92E-04	1.41E-04	1.41E-04	7.88E-05	2.01E-06	2.92E-05	2.21E-05	2.21E-05	1.21E-05	1.09E-06	1.58E-05	9.82E-06	9.82E-06	4.86E-06
2650	257918.65	4086040.74	0.000012969	1.88E-04	1.38E-04	1.38E-04	7.71E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.60E-06	9.60E-06	4.75E-06
2651	257942.93	4086039.66	0.0000127	1.84E-04	1.35E-04	1.35E-04	7.55E-05	1.93E-06	2.80E-05	2.11E-05	2.11E-05	1.16E-05	1.05E-06	1.51E-05	9.41E-06	9.41E-06	4.66E-06
2652	257967.21	4086038.59	0.000012454	1.80E-04	1.33E-04	1.33E-04	7.40E-05	1.89E-06	2.74E-05	2.07E-05	2.07E-05	1.14E-05	1.03E-06	1.48E-05	9.22E-06	9.22E-06	4.57E-06
2653	257991.49	4086037.51	0.000012229	1.77E-04	1.30E-04	1.30E-04	7.27E-05	1.86E-06	2.69E-05	2.04E-05	2.04E-05	1.12E-05	1.01E-06	1.46E-05	9.06E-06	9.06E-06	4.48E-06
2654	258015.77	4086036.44	0.000012014	1.74E-04	1.28E-04	1.28E-04	7.14E-05	1.82E-06	2.65E-05	2.00E-05	2.00E-05	1.10E-05	9.90E-07	1.43E-05	8.90E-06	8.90E-06	4.40E-06
2655	258040.06	4086035.36	0.000011801	1.71E-04	1.26E-04	1.26E-04	7.01E-05	1.79E-06	2.60E-05	1.96E-05	1.96E-05	1.08E-05	9.73E-07	1.41E-05	8.74E-06	8.74E-06	4.33E-06
2656	258064.34	4086034.28	0.000011586	1.68E-04	1.24E-04	1.24E-04	6.89E-05	1.76E-06	2.55E-05	1.93E-05	1.93E-05	1.06E-05	9.55E-07	1.38E-05	8.58E-06	8.58E-06	4.25E-06
2657	258088.62	4086033.21	0.000011356	1.64E-04	1.21E-04	1.21E-04	6.75E-05	1.72E-06	2.50E-05	1.89E-05	1.89E-05	1.04E-05	9.36E-07	1.35E-05	8.41E-06	8.41E-06	4.16E-06
2658	258112.9	4086032.13	0.000011112	1.61E-04	1.18E-04	1.18E-04	6.60E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.16E-07	1.32E-05	8.23E-06	8.23E-06	4.07E-06
2659	258137.18	4086031.06	0.000010852	1.57E-04	1.16E-04	1.16E-04	6.45E-05	1.65E-06	2.39E-05	1.81E-05	1.81E-05	9.93E-06	8.95E-07	1.29E-05	8.04E-06	8.04E-06	3.98E-06
2660	258161.46	4086029.98	0.000010577	1.53E-04	1.13E-04	1.13E-04	6.29E-05	1.61E-06	2.33E-05	1.76E-05	1.76E-05	9.68E-06	8.72E-07	1.26E-05	7.83E-06	7.83E-06	3.88E-06
2661	258185.75	4086028.91	0.000010295	1.49E-04	1.10E-04	1.10E-04	6.12E-05	1.56E-06	2.27E-05	1.71E-05	1.71E-05	9.42E-06	8.49E-07	1.23E-05	7.62E-06	7.62E-06	3.77E-06
2662	258210.03	4086027.83	0.00001001	1.45E-04	1.07E-04	1.07E-04	5.95E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.16E-06	8.25E-07	1.19E-05	7.41E-06	7.41E-06	3.67E-06
2663	258234.31	4086026.76	0.000009725	1.41E-04	1.04E-04	1.04E-04	5.78E-05	1.48E-06	2.14E-05	1.62E-05	1.62E-05	8.90E-06	8.02E-07	1.16E-05	7.20E-06	7.20E-06	3.56E-06
2664	258258.59	4086025.68	9.4443E-06	1.37E-04	1.01E-04	1.01E-04	5.61E-05	1.43E-06	2.08E-05	1.57E-05	1.57E-05	8.64E-06	7.78E-07	1.13E-05	6.99E-06	6.99E-06	3.46E-06
2665	258282.87	4086024.61	9.1677E-06	1.33E-04	9.77E-05	9.77E-05	5.45E-05	1.39E-06	2.02E-05	1.53E-05	1.53E-05	8.39E-06	7.56E-07	1.09E-05	6.79E-06	6.79E-06	3.36E-06
2666	258307.16	4086023.53	8.8951E-06	1.29E-04	9.48E-05	9.48E-05	5.29E-05	1.35E-06	1.96E-05	1.48E-05	1.48E-05	8.14E-06	7.33E-07	1.06E-05	6.59E-06	6.59E-06	3.26E-06
2667	258331.44	4086022.45	8.6267E-06	1.25E-04	9.20E-05	9.20E-05	5.13E-05	1.31E-06	1.90E-05	1.44E-05	1.44E-05	7.89E-06	7.11E-07	1.03E-05	6.39E-06	6.39E-06	3.16E-06
2668	258355.72	4086021.38	8.3644E-06	1.21E-04	8.92E-05	8.92E-05	4.97E-05	1.27E-06	1.84E-05	1.39E-05	1.39E-05	7.65E-06	6.89E-07	9.97E-06	6.19E-06	6.19E-06	3.07E-06
2669	258380	4086020.3	8.1083E-06	1.17E-04	8.64E-05	8.64E-05	4.82E-05	1.23E-06	1.79E-05	1.35E-05	1.35E-05	7.42E-06	6.68E-07	9.67E-06	6.00E-06	6.00E-06	2.97E-06
2670	258404.28	4086019.23	7.8624E-06	1.14E-04	8.38E-05	8.38E-05	4.67E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.19E-06	6.48E-07	9.37E-06	5.82E-06	5.82E-06	2.88E-06
2671	257589.14	4086246.23	0.000011969	1.73E-04	1.28E-04	1.28E-04	7.11E-05	1.82E-06	2.64E-05	1.99E-05	1.99E-05	1.10E-05	9.87E-07	1.43E-05	8.86E-06	8.86E-06	4.39E-06
2672	257566.45	4086237.94	0.000012219	1.77E-04	1.30E-04	1.30E-04	7.26E-05	1.85E-06	2.69E-05	2.03E-05	2.03E-05	1.12E-05	1.01E-06	1.46E-05	9.05E-06	9.05E-06	4.48E-06
2673	257543.75	4086229.65	0.000012454	1.80E-04	1.33E-04	1.33E-04	7.40E-05	1.89E-06	2.74E-05	2.07E-05	2.07E-05	1.14E-05	1.03E-06	1.48E-05	9.22E-06	9.22E-06	4.57E-06
2674	257521.06	4086221.36	0.00001268	1.83E-04	1.35E-04	1.35E-04	7.54E-05	1.92E-06	2.79E-05	2.11E-05	2.11E-05	1.16E-05	1.05E-06	1.51E-05	9.39E-06	9.39E-06	4.65E-06
2675	257498.37	4086213.07	0.000012895	1.87E-04	1.37E-04	1.37E-04	7.66E-05	1.96E-06	2.84E-05	2.15E-05	2.15E-05	1.18E-05	1.06E-06	1.54E-05	9.55E-06	9.55E-06	4.73E-06
2676	257475.68	4086204.78	0.0000131	1.89E-04	1.40E-04	1.40E-04	7.79E-05	1.99E-06	2.89E-05	2.18E-05	2.18E-05	1.20E-05	1.08E-06	1.56E-05	9.70E-06	9.70E-06	4.80E-06
2677	257452.98	4086196.49	0.000013292	1.92E-04	1.42E-04	1.42E-04	7.90E-05	2.02E-06	2.93E-05	2.21E-05	2.21E-05	1.22E-05	1.10E-06	1.58E-05	9.84E-06	9.84E-06	4.87E-06
2678	257430.29	4086188.21	0.000013475	1.95E-04	1.44E-04	1.44E-04	8.01E-05	2.05E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.61E-05	9.98E-06	9.98E-06	4.94E-06
2679	257407.6	4086179.92	0.000013645	1.97E-04	1.45E-04	1.45E-04	8.11E-05	2.07E-06	3.01E-05	2.27E-05	2.27E-05	1.25E-05	1.12E-06	1.63E-05	1.01E-05	1.01E-05	5.00E-06
2680	257384.91	4086171.63	0.000013803	2.00E-04	1.47E-04	1.47E-04	8.20E-05	2.09E-06	3.04E-05	2.30E-05	2.30E-05	1.26E-05	1.14E-06	1.65E-05	1.02E-05	1.02E-05	5.06E-06
2681	257362.21	4086163.34	0.000013946	2.02E-04	1.49E-04	1.49E-04	8.29E-05	2.12E-06	3.07E-05	2.32E-05	2.32E-05	1.28E-05	1.15E-06	1.66E-05	1.03E-05	1.03E-05	5.11E-06
2682	257339.52	4086155.05	0.000014094	2.04E-04	1.50E-04	1.50E-04	8.38E-05	2.14E-06	3.11E-05	2.35E-05	2.35E-05	1.29E-05	1.16E-06	1.68E-05	1.04E-05	1.04E-05	5.17E-06
2683	257316.83	4086146.76	0.000014264	2.06E-04	1.52E-04	1.52E-04	8.48E-05	2.16E-06	3.14E-05	2.37E-05	2.37E-05	1.31E-05	1.18E-06	1.70E-05	1.06E-05	1.06E-05	5.23E-06
2684	257294.14	4086138.47	0.000014413	2.08E-04	1.54E-04	1.54E-04	8.57E-05	2.19E-06	3.18E-05	2.40E-05	2.40E-05	1.32E-05	1.19E-06	1.72E-05	1.07E-05	1.07E-05	5.28E-06
2685	257271.44	4086130.18	0.000014553	2.10E-04	1.55E-04	1.55E-04	8.65E-05	2.21E-06	3.21E-05	2.42E-05	2.42E-05	1.33E-05	1.20E-06	1.73E-05	1.08E-05	1.08E-05	5.33E-06
2686	257248.75	4086121.89	0.000014696	2.13E-04	1.57E-04	1.57E-04	8.73E-05	2.23E-06	3.24E-05	2.45E-05	2.45E-05	1.34E-05	1.21E-06	1.75E-05	1.09E-05	1.09E-05	5.39E-06
2687	257226.06	4086113.6	0.000014842	2.15E-04	1.58E-04	1.58E-04	8.82E-05	2.25E-06	3.27E-05	2.47E-05	2.47E-05	1.36E-05	1.22E-06	1.77E-05	1.10E-05	1.10E-05	5.44E-06

2688	257203.37	4086105.31	0.000014985	2.17E-04	1.60E-04	1.60E-04	8.91E-05	2.27E-06	3.30E-05	2.49E-05	2.49E-05	1.37E-05	1.24E-06	1.79E-05	1.11E-05	1.11E-05	5.49E-06
2689	257180.67	4086097.02	0.00001512	2.19E-04	1.61E-04	1.61E-04	8.99E-05	2.29E-06	3.33E-05	2.52E-05	2.52E-05	1.38E-05	1.25E-06	1.80E-05	1.12E-05	1.12E-05	5.54E-06
2690	257157.98	4086088.73	0.000015241	2.20E-04	1.62E-04	1.62E-04	9.06E-05	2.31E-06	3.36E-05	2.54E-05	2.54E-05	1.39E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.59E-06
2691	257135.29	4086080.44	0.000015337	2.22E-04	1.64E-04	1.64E-04	9.12E-05	2.33E-06	3.38E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.83E-05	1.14E-05	1.14E-05	5.62E-06
2692	257112.6	4086072.15	0.000015403	2.23E-04	1.64E-04	1.64E-04	9.15E-05	2.34E-06	3.39E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.65E-06
2693	257089.9	4086063.86	0.00001544	2.23E-04	1.65E-04	1.65E-04	9.18E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.66E-06
2694	257067.21	4086055.57	0.000015446	2.23E-04	1.65E-04	1.65E-04	9.18E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.66E-06
2695	257044.52	4086047.28	0.000015432	2.23E-04	1.65E-04	1.65E-04	9.17E-05	2.34E-06	3.40E-05	2.57E-05	2.57E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.66E-06
2696	257021.83	4086038.99	0.000015401	2.23E-04	1.64E-04	1.64E-04	9.15E-05	2.34E-06	3.39E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.84E-05	1.14E-05	1.14E-05	5.65E-06
2697	256999.13	4086030.7	0.000015362	2.22E-04	1.64E-04	1.64E-04	9.13E-05	2.33E-06	3.38E-05	2.56E-05	2.56E-05	1.41E-05	1.27E-06	1.83E-05	1.14E-05	1.14E-05	5.63E-06
2698	256976.44	4086022.41	0.000015325	2.22E-04	1.63E-04	1.63E-04	9.11E-05	2.33E-06	3.38E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.83E-05	1.13E-05	1.13E-05	5.62E-06
2699	256953.75	4086014.12	0.000015288	2.21E-04	1.63E-04	1.63E-04	9.09E-05	2.32E-06	3.37E-05	2.54E-05	2.54E-05	1.40E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.60E-06
2700	256931.06	4086005.83	0.000015258	2.21E-04	1.63E-04	1.63E-04	9.07E-05	2.32E-06	3.36E-05	2.54E-05	2.54E-05	1.40E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.59E-06
2701	256908.36	4085997.54	0.000015229	2.20E-04	1.62E-04	1.62E-04	9.05E-05	2.31E-06	3.36E-05	2.53E-05	2.53E-05	1.39E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.58E-06
2702	256885.67	4085989.25	0.0000152	2.20E-04	1.62E-04	1.62E-04	9.03E-05	2.31E-06	3.35E-05	2.53E-05	2.53E-05	1.39E-05	1.25E-06	1.81E-05	1.13E-05	1.13E-05	5.57E-06
2703	256862.98	4085980.96	0.000015169	2.19E-04	1.62E-04	1.62E-04	9.02E-05	2.30E-06	3.34E-05	2.52E-05	2.52E-05	1.39E-05	1.25E-06	1.81E-05	1.12E-05	1.12E-05	5.56E-06
2704	256840.29	4085972.67	0.000015135	2.19E-04	1.61E-04	1.61E-04	9.00E-05	2.30E-06	3.33E-05	2.52E-05	2.52E-05	1.38E-05	1.25E-06	1.80E-05	1.12E-05	1.12E-05	5.55E-06
2705	256807.49	4085942.44	0.000015342	2.22E-04	1.64E-04	1.64E-04	9.12E-05	2.33E-06	3.38E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.83E-05	1.14E-05	1.14E-05	5.62E-06
2706	256797.38	4085920.49	0.000015571	2.25E-04	1.66E-04	1.66E-04	9.25E-05	2.36E-06	3.43E-05	2.59E-05	2.59E-05	1.42E-05	1.28E-06	1.86E-05	1.15E-05	1.15E-05	5.71E-06
2707	256787.28	4085898.55	0.000015776	2.28E-04	1.68E-04	1.68E-04	9.38E-05	2.39E-06	3.48E-05	2.63E-05	2.63E-05	1.44E-05	1.30E-06	1.88E-05	1.17E-05	1.17E-05	5.78E-06
2708	256777.17	4085876.61	0.000015942	2.31E-04	1.70E-04	1.70E-04	9.48E-05	2.42E-06	3.51E-05	2.65E-05	2.65E-05	1.46E-05	1.31E-06	1.90E-05	1.18E-05	1.18E-05	5.84E-06
2709	256767.07	4085854.66	0.000016063	2.32E-04	1.71E-04	1.71E-04	9.55E-05	2.44E-06	3.54E-05	2.67E-05	2.67E-05	1.47E-05	1.32E-06	1.92E-05	1.19E-05	1.19E-05	5.89E-06
2710	256756.96	4085832.72	0.000016122	2.33E-04	1.72E-04	1.72E-04	9.58E-05	2.45E-06	3.55E-05	2.68E-05	2.68E-05	1.48E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.91E-06
2711	256746.86	4085810.77	0.000016114	2.33E-04	1.72E-04	1.72E-04	9.58E-05	2.45E-06	3.55E-05	2.68E-05	2.68E-05	1.47E-05	1.33E-06	1.92E-05	1.19E-05	1.19E-05	5.91E-06
2712	256736.75	4085788.83	0.000016032	2.32E-04	1.71E-04	1.71E-04	9.53E-05	2.43E-06	3.53E-05	2.67E-05	2.67E-05	1.47E-05	1.32E-06	1.91E-05	1.19E-05	1.19E-05	5.88E-06
2713	256726.65	4085766.88	0.000015868	2.30E-04	1.69E-04	1.69E-04	9.43E-05	2.41E-06	3.50E-05	2.64E-05	2.64E-05	1.45E-05	1.31E-06	1.89E-05	1.18E-05	1.18E-05	5.82E-06
2714	256716.54	4085744.94	0.000015622	2.26E-04	1.67E-04	1.67E-04	9.28E-05	2.37E-06	3.44E-05	2.60E-05	2.60E-05	1.43E-05	1.29E-06	1.86E-05	1.16E-05	1.16E-05	5.73E-06
2715	256706.44	4085722.99	0.000015294	2.21E-04	1.63E-04	1.63E-04	9.09E-05	2.32E-06	3.37E-05	2.55E-05	2.55E-05	1.40E-05	1.26E-06	1.82E-05	1.13E-05	1.13E-05	5.61E-06
2716	256696.33	4085701.05	0.000014915	2.16E-04	1.59E-04	1.59E-04	8.86E-05	2.26E-06	3.29E-05	2.48E-05	2.48E-05	1.36E-05	1.23E-06	1.78E-05	1.10E-05	1.10E-05	5.47E-06
2717	256686.23	4085679.11	0.00001443	2.09E-04	1.54E-04	1.54E-04	8.58E-05	2.19E-06	3.18E-05	2.40E-05	2.40E-05	1.32E-05	1.19E-06	1.72E-05	1.07E-05	1.07E-05	5.29E-06
2718	256676.12	4085657.16	0.000013874	2.01E-04	1.48E-04	1.48E-04	8.25E-05	2.11E-06	3.06E-05	2.31E-05	2.31E-05	1.27E-05	1.14E-06	1.65E-05	1.03E-05	1.03E-05	5.09E-06
2719	256666.02	4085635.22	0.00001326	1.92E-04	1.41E-04	1.41E-04	7.88E-05	2.01E-06	2.92E-05	2.21E-05	2.21E-05	1.21E-05	1.09E-06	1.58E-05	9.82E-06	9.82E-06	4.86E-06
2720	256655.91	4085613.27	0.000012594	1.82E-04	1.34E-04	1.34E-04	7.48E-05	1.91E-06	2.77E-05	2.10E-05	2.10E-05	1.15E-05	1.04E-06	1.50E-05	9.33E-06	9.33E-06	4.62E-06
2721	256645.81	4085591.33	0.000011897	1.72E-04	1.27E-04	1.27E-04	7.07E-05	1.81E-06	2.62E-05	1.98E-05	1.98E-05	1.09E-05	9.81E-07	1.42E-05	8.81E-06	8.81E-06	4.36E-06
2722	256635.7	4085569.38	0.000011184	1.62E-04	1.19E-04	1.19E-04	6.65E-05	1.70E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.22E-07	1.33E-05	8.28E-06	8.28E-06	4.10E-06
2723	256625.6	4085547.44	0.000010479	1.52E-04	1.12E-04	1.12E-04	6.23E-05	1.59E-06	2.31E-05	1.74E-05	1.74E-05	9.59E-06	8.64E-07	1.25E-05	7.76E-06	7.76E-06	3.84E-06
2724	256615.49	4085525.5	9.8029E-06	1.42E-04	1.05E-04	1.05E-04	5.83E-05	1.49E-06	2.16E-05	1.63E-05	1.63E-05	8.97E-06	8.08E-07	1.17E-05	7.26E-06	7.26E-06	3.59E-06
2725	256605.39	4085503.55	9.1738E-06	1.33E-04	9.78E-05	9.78E-05	5.45E-05	1.39E-06	2.02E-05	1.53E-05	1.53E-05	8.39E-06	7.56E-07	1.09E-05	6.79E-06	6.79E-06	3.36E-06
2726	256595.28	4085481.61	8.6041E-06	1.24E-04	9.17E-05	9.17E-05	5.11E-05	1.31E-06	1.90E-05	1.43E-05	1.43E-05	7.87E-06	7.09E-07	1.03E-05	6.37E-06	6.37E-06	3.15E-06
2727	256585.18	4085459.66	8.1021E-06	1.17E-04	8.64E-05	8.64E-05	4.82E-05	1.23E-06	1.79E-05	1.35E-05	1.35E-05	7.41E-06	6.68E-07	9.66E-06	6.00E-06	6.00E-06	2.97E-06
2728	256575.07	4085437.72	7.6718E-06	1.11E-04	8.18E-05	8.18E-05	4.56E-05	1.16E-06	1.69E-05	1.28E-05	1.28E-05	7.02E-06	6.32E-07	9.15E-06	5.68E-06	5.68E-06	2.81E-06
2729	256564.97	4085415.77	7.3091E-06	1.06E-04	7.79E-05	7.79E-05	4.34E-05	1.11E-06	1.61E-05	1.22E-05	1.22E-05	6.69E-06	6.02E-07	8.71E-06	5.41E-06	5.41E-06	2.68E-06
2730	256554.86	4085393.83	7.0059E-06	1.01E-04	7.47E-05	7.47E-05	4.16E-05	1.06E-06	1.54E-05	1.17E-05	1.17E-05	6.41E-06	5.77E-07	8.35E-06	5.19E-06	5.19E-06	2.57E-06
2731	256544.76	4085371.88	6.7497E-06	9.76E-05	7.20E-05	7.20E-05	4.01E-05	1.02E-06	1.49E-05	1.12E-05	1.12E-05	6.18E-06	5.56E-07	8.05E-06	5.00E-06	5.00E-06	2.47E-06
2732	256534.65	4085349.94	6.5284E-06	9.44E-05	6.96E-05	6.96E-05	3.88E-05	9.91E-07	1.44E-05	1.09E-05	1.09E-05	5.97E-06	5.38E-07	7.78E-06	4.83E-06	4.83E-06	2.39E-06
2733	256524.54	4085328	6.3338E-06	9.16E-05	6.75E-05	6.75E-05	3.76E-05	9.61E-07	1.40E-05	1.05E-05	1.05E-05	5.80E-06	5.22E-07	7.55E-06	4.69E-06	4.69E-06	2.32E-06
2734	256514.44	4085306.05	6.1575E-06	8.91E-05	6.56E-05	6.56E-05	3.66E-05	9.35E-07	1.36E-05	1.02E-05	1.02E-05	5.63E-06	5.08E-07	7.34E-06	4.56E-06	4.56E-06	2.26E-06
2735	256504.33	4085284.11	5.9916E-06	8.67E-05	6.39E-05	6.39E-05	3.56E-05	9.09E-07	1.32E-05	9.97E-06	9.97E-06	5.48E-06	4.94E-07	7.14E-06	4.44E-06	4.44E-06	2.20E-06
2736	256494.23	4085262.16	5.8399E-06	8.45E-05	6.23E-05	6.23E-05	3.47E-05	8.86E-07	1.29E-05	9.72E-06	9.72E-06	5.34E-06	4.81E-07	6.96E-06	4.32E-06	4.32E-06	2.14E-06
2737	256484.12	4085240.22	5.6985E-06	8.24E-05	6.07E-05	6.07E-05	3.39E-05	8.65E-07	1.26E-05	9.49E-06	9.49E-06	5.21E-06	4.70E-07	6.79E-06	4.22E-06	4.22E-06	2.09E-06
2738	256474.02	4085218.27	5.5735E-06	8.06E-05	5.94E-05	5.94E-05	3.31E-05	8.46E-07	1.23E-05	9.28E-06	9.28E-06	5.10E-06	4.59E-07	6.64E-06	4.13E-06	4.13E-06	2.04E-06
2739	257611.83	4086254.52	0.000011704	1.69E-04	1.25E-04	1.25E-04	6.96E-05	1.78E-06	2.58E-05	1.95E-05	1.95E-05	1.07E-05	9.65E-07	1.40E-05	8.67E-06	8.67E-06	4.29E-06
2740	257636.11	4086253.45	0.000011575	1.67E-04	1.23E-04	1.23E-04	6.88E-05	1.76E-06	2.55E-05	1.93E-05	1.93E-05	1.06E-05	9.54E-07	1.38E-05	8.57E-06	8.57E-06	4.24E-06
2741	257660.4	4086252.37	0.000011432	1.65E-04	1.22E-04	1.22E-04	6.79E-05	1.74E-06	2.52E-05	1.90E-05	1.90E-05	1.05E-05	9.42E-07	1.36E-05	8.47E-06	8.47E-06	4.19E-06
2742	257684.68	4086251.3	0.000011274	1.63E-04	1.20E-04	1.20E-04	6.70E-05	1.71E-06	2.48E-05	1.88E-05	1.88E-05	1.03E-05	9.29E-07	1.34E-05	8.35E-06	8.35E-06	4.13E-06
2743	257708.96	4086250.22	0.000011106	1.61E-04	1.18E-04	1.18E-04	6.60E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.15E-07	1.32E-05	8.23E-06	8.23E-06	4.07E-06
2744	257733.24	4086249.15	0.000010928	1.58E-04	1.16E-04	1.16E-04	6.49E-05	1.66E-06	2.41E-05	1.82E-05	1.82E-05	1.00E-05	9.01E-07	1.30E-05	8.09E-06	8.09E-06	4.01E-06
2745	257757.52	4086248.07	0.000010748	1.55E-04	1.15E-04	1.15E-04	6.39E-05	1.63E-06	2.37E-05	1.79E-05	1.79E-05	9.83E-06	8.86E-07	1.28E-05	7.96E-06	7.96E-06	3.94E-06
2746	257781.8	4086246.99	0.000010563	1.53E-04	1.13E-04	1.13E-04	6.28E-05	1.60E-06	2.33E-05	1.76E-05	1.76E-05	9.67E-06	8.71E-07	1.26E-05	7.82E-06	7.82E-06	3.87E-06
2747	257806.09	4086245.92	0.000010373	1.50E-04	1.11E-04	1.11E-04	6.16E-05	1.57E-06	2.29E-05	1.73E-05	1.73E-05	9.49E-06	8.55E-07	1.24E-05	7.68E-06	7.68E-06	3.80E-06
2748	257830.37	4086244.84	0.000010178	1.47E-04	1.09E-04	1.09E-04	6.05E-05	1.54E-06	2.24E-05	1.69E-05	1.69E-05	9.31E-06	8.39E-07	1.21E-05	7.54E-06	7.54E-06	3.73E-06
2749	257854.65	4086243.77	0.000010002	1.45E-04	1.07E-04	1.07E-04	5.94E-05	1.52E-06	2.20E-05	1.66E-05	1.66E-05	9.15E-06	8.24E-07	1.19E-05	7.41E-06	7.41E-06	3.67E-06
2750	257878.93	4086242.69	9.8152E-06	1.42E-04	1.05E-04	1.05E-04	5.83E-05	1.49E-06	2.16E-05	1.63E-05	1.63E-05	8.98E-06	8.09E-07	1.17E-05	7.27E-06	7.27E-06	3.60E-06
2751	257903.21	4086241.62	9.6369E-06	1.39E-04	1.03E-04	1.03E-04	5.73E-05	1.46E-06	2.12E-05	1.60E-05	1.60E-05	8.82E-06	7.94E-07	1.15E-05	7.14E-06	7.14E-06	3.53E-06
2752	257927.5	4086240.54	9.4689E-06	1.37E-04	1.01E-04	1.01E-04	5.63E-05	1.44E-06	2.09E-05	1.58E-05	1.58E-05	8.66E-06	7.81E-07	1.13E-05	7.01E-06	7.01E-06	3.47E-06
2753	257951.78	4086239.47	9.3029E-06	1.35E-04	9.92E-05	9.92E-05	5.53E-05	1.41E-06	2.05E-05	1.55E-05	1.55E-05	8.51E-06	7.67E-07	1.11E-05	6.89E-06	6.89E-06	3.41E-06
2754	257976.06	4086238.39	0.000009139	1.32E-04	9.74E-05	9.74E-05	5.43E-05	1.39E-06	2.01E-05	1.52E-05	1.52E-05	8.36E-06	7.53E-07	1.09E-05	6.77E-06	6.77E-06	3.35E-06
2755	258000.34	4086237.32	0.000008975	1.30E-04	9.57E-05	9.57E-05	5.33E-05	1.36E-06	1.98E-05	1.49E-05	1.49E-05	8.21E-06	7.40E-07	1.07E-05	6.65E-06	6.65E-06	3.29E-06
2756	258024.62	4086236.24	8.8111E-06	1.27E-04	9.39E-05	9.39E-05	5.24E-05	1.34E-06	1.94E-05	1.47E-05	1.47E-05	8.06E-06	7.26E-07	1.05E-05	6.53E-06	6.53E-06	3.23E-06
2757	258048.9	4086235.16	8.6472E-06	1.25E-04	9.22E-05	9.22E-05	5.14E-05	1.31E-06	1.91E-05	1.44E-05	1.44E-05	7.91E-06	7.13E-07	1.03E-05	6.40E-06	6.40E-06	3.17E-06
2758	258073.19	4086234.09	8.4833E-06	1.23E-04	9.04E-05	9.04E-05	5.04E-05	1.29E-06	1.87E-05	1.41E-05	1.41E-05	7.76E-06	6.99E-07	1.01E-05	6.28E-06	6.28E-06	3.11E-06
2759	258097.47	4086233.01	8.3193E-06	1.20E-04	8.87E-05	8.87E-05	4.94E-05	1.26E-06	1.83E-05	1.38E-05	1.38E-05	7.61E-06	6.86E-07	9.92E-06	6.16E-06	6.16E-06	3.05E-06
2760	258121.75	4086231.94	8.1779E-06	1.18E-04	8.72E-05	8.72E-05	4.86E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.48E-06	6.74E-07	9.75E-06	6.06E-06	6.06E-06	3.00E-06
2761	258146.03	4086230.86	8.0222E-06	1.16E-04	8.55E-05	8.55E-05	4.77E-05	1.22E-06	1.77E-05	1.34E-05	1.34E-05	7.34E-06	6.61E-07	9.56E-06	5.94E-06	5.94E-06	2.94E-06
2762	258170.31	4086229.79	7.8583E-06	1.14E-04	8.38E-05	8.38E-05	4.67E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.19E-06	6.48E-07	9.37E-06	5.82E-06	5.82E-06	2.88E-06
2763	258194.6	4086228.71	7.6944E-06	1.11E-04	8.20E-05	8.20E-05	4.57E-05	1.17E-06	1.70E-05	1.28E-05	1.28E-05	7.04E-06	6.34E-07	9.17E-06	5.70E-06	5.70E-06	2.82E-06
2764	258218.88	4086227.64	7.5325E-06	1.09E-04	8.03E-05	8.03E-05	4.48E-05	1.14E-06	1.66E-05	1.25E-05	1.25E-05	6.89E-06	6.21E-07	8.98E-06	5.58E-06	5.58E-06	2.76E-06
2765	258243.16	4086226.56	7.3685E-06	1.07E-04	7.86E-05	7.86E-05	4.38E-05	1.12E-06	1.62E-05	1.23E-05	1.23E-05	6.74E-06	6.07E-07	8.78E-06	5.46E-06	5.46E-06	2.70E-06
2766	258267.44	4086225.49	7.2026E-06	1.04E-04	7.68E-05	7.68E-05	4.28E-05	1.09E-06	1.59E-05	1.20E-05	1.20E-05	6.59E-06	5.94E-07	8.59E-06	5.33E-06	5.33E-06	2.64E-06
2767	258291.72	4086224.41	7.0345E-06	1.02E-04	7.50E-05	7.50E-05	4.18E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.44E-06	5.80E-07	8.39E-06	5.21E-06	5.21E-06	2.58E-06
2768	258316	4086223.33	6.8645E-06	9.93E-05	7.32E-05	7.32E-05	4.08E-05	1.04E-06	1.51E-05	1.14E-05	1.14E-05	6.28E-06	5.66E-07	8.18E-06	5.08E-06	5.08E-06	2.52E-06
2769	258340.29	4086222.26	6.6944E-06	9.68E-05	7.14E-05	7.14E-05	3.98E-05	1.02E-06	1.48E-05	1.11E-05	1.11E-05	6.13E-06	5.52E-07	7.98E-06	4.96E-06	4.96E-06	2.45E-06
2770	258364.57	4086221.18	6.5264E-06	9.44E-05	6.96E-05	6.96E-05	3.88E-05	9.91E-07	1.44E-05	1.09E-05	1.09E-05	5.97E-06	5.38E-07	7.78E-06	4.83E-06	4.83E-06	2.39E-06
2771	258388.85	4086220.11	6.3604E-06	9.20E-05	6.78E-05	6.78E-05	3.78E-05	9.65E-07	1.40E-05	1.06E-05	1.06E-05	5.82E-06	5.24E-07	7.58E-06	4.71E-06	4.71E-06	2.33E-06
2772	258413.13	4086219.03	6.1944E-06	8.96E-05	6.60E-05	6.60E-05	3.68E-05	9.40E-07	1.36E-05	1.03E-05	1.03E-05	5.67E-06	5.11E-07	7.39E-06	4.59E-06	4.59E-06	2.27E-06
2773	257598.33	4086446.16	9.1308E-06	1.32E-04	9.73E-05	9.73E-05	5.43E-05	1.39E-06	2.01E-05	1.52E-05	1.52E-05	8.36E-06	7.53E-07	1.09E-05	6.76E-06	6.76E-06	3.35E-06
2774	257575.98	4086438	9.3357E-06	1.35E-04	9.95E-05	9.95E-05	5.55E-05	1.42E-06	2.06E-05	1.55E-05	1.55E-05	8.54E-06	7.70E-07	1.11E-05	6.91E-06	6.91E-06	3.42E-06
2775	257553.64	4086429.83	9.5365E-06	1.38E-04	1.02E-04	1.02E-04	5.67E-05	1.45E-06	2.10E-05	1.59E-05	1.59E-05	8.73E-06	7.86E-07	1.14E-05	7.06E-06	7.06E-06	3.50E-06
2776	257531.29	4086421.67	9.7312E-06	1.41E-04	1.04E-04	1.04E-04	5.78E-05	1.48E-06	2.14E-05	1.62E-05	1.62E-05	8.91E-06	8.02E-07	1.16E-05	7.21E-06	7.21E-06	3.57E-06
2777	257508.94	4086413.51	9.9197E-06	1.43E-04	1.06E-04	1.06E-04	5.90E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.08E-06	8.18E-07	1.18E-05	7.35E-06	7.35E-06	3.64E-06
2778	257486.59	4086405.34	0.000010102	1.46E-04	1.08E-04	1.08E-04	6.00E-05	1.53E-06	2.23E-05	1.68E-05	1.68E-05	9.24E-06	8.33E-07	1.20E-05	7.48E-06	7.48E-06	3.70E-06
2779	257464.24	4086397.18	0.000010274	1.49E-04	1.10E-04	1.10E-04	6.11E-05	1.56E-06	2.26E-05	1.71E-05	1.71E-05	9.40E-06	8.47E-07	1.22E-05	7.61E-06	7.61E-06	3.77E-06
2780	257441.89	4086389.01	0.000010438	1.51E-04	1.11E-04	1.11E-04	6.20E-05	1.58E-06	2.30E-05	1.74E-05	1.74E-05	9.55E-06	8.60E-07	1.24E-05	7.73E-06	7.73E-06	3.83E-06
2781	257419.54	4086380.85	0.000010592	1.53E-04	1.13E-04	1.13E-04	6.29E-05	1.61E-06	2.33E-05	1.76E-05	1.76E-05	9.69E-06	8.73E-07	1.26E-05	7.84E-06	7.84E-06	3.88E-06
2782	257397.19	4086372.69	0.000010735	1.55E-04	1.14E-04	1.14E-04	6.38E-05	1.63E-06	2.37E-05	1.79E-05	1.79E-05	9.82E-06	8.85E-07	1.28E-05	7.95E-06	7.95E-06	3.94E-06
2783	257374.85	4086364.52	0.000010868	1.57E-04	1.16E-04	1.16E-04	6.46E-05	1.65E-06	2.39E-05	1.81E-05	1.81E-05	9.95E-06	8.96E-07	1.30E-05	8.05E-06	8.05E-06	3.98E-06
2784	257352.5	4086356.36	0.000010993	1.59E-04	1.17E-04	1.17E-04	6.53E-05	1.67E-06	2.42E-05	1.83E-05	1.83E-05	1.01E-05	9.06E-07	1.31E-05	8.14E-06	8.14E-06	4.03E-06
2785	257330.15	4086348.19	0.000011108	1.61E-04	1.18E-04	1.18E-04	6.60E-05	1.69E-06	2.45E-05	1.85E-05	1.85E-05	1.02E-05	9.16E-07	1.32E-05	8.23E-06	8.23E-06	4.07E-06
2786	257307.8	4086340.03	0.000011219	1.62E-04	1.20E-04	1.20E-04	6.67E-05	1.70E-06	2.47E-05	1.87E-05	1.87E-05	1.03E-05	9.25E-07	1.34E-05	8.31E-06	8.31E-06	4.11E-06
2787	257285.45	4086331.87	0.000011325	1.64E-04	1.21E-04	1.21E-04	6.73E-05	1.72E-06	2.50E-05	1.89E-05	1.89E-05	1.04E-05	9.34E-07	1.35E-05	8.39E-06	8.39E-06	4.15E-06
2788	257263.1	4086323.7	0.00001143	1.65E-04	1.22E-04	1.22E-04	6.79E-05	1.73E-06	2.52E-05	1.90E-05	1.90E-05	1.05E-05	9.42E-07	1.36E-05	8.46E-06	8.46E-06	4.19E-06
2789	257240.75	4086315.54	0.000011534	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.51E-07	1.38E-05	8.54E-06	8.54E-06	4.23E-06
2790	257218.4	4086307.37	0.000011639	1.68E-04	1.24E-04	1.24E-04	6.92E-05	1.77E-06	2.56E-05	1.94E-05	1.94E-05	1.07E-05	9.59E-07	1.39E-05	8.62E-06	8.62E-06	4.27E-06
2791	257196.06	4086299.21	0.000011743	1.70E-04	1.25E-04	1.25E-04	6.98E-05	1.78E-06	2.59E-05	1.95E-05	1.95E-05	1.07E-05	9.68E-07	1.40E-05	8.70E-06	8.70E-06	4.30E-06
2792	257173.71	4086291.04	0.00001185	1.71E-04	1.26E-04	1.26E-04	7.04E-05	1.80E-06	2.61E-05	1.97E-05	1.97E-05	1.08E-05	9.77E-07	1.41E-05	8.78E-06	8.78E-06	4.34E-06
2793	257151.36	4086282.88	0.000011983	1.73E-04	1.28E-04	1.28E-04	7.12E-05	1.82E-06	2.64E-05	1.99E-05	1.99E-05	1.10E-05	9.88E-07	1.43E-05	8.87E-06	8.87E-06	4.39E-06
2794	257129.01	4086274.72	0.0000121	1.75E-04	1.29E-04	1.29E-04	7.19E-05	1.84E-06	2.67E-05	2.01E-05	2.01E-05	1.11E-05	9.97E-07	1.44E-05	8.96E-06	8.96E-06	4.44E-06
2795	257106.66	4086266.55	0.000012194	1.76E-04	1.30E-04	1.30E-04	7.25E-05	1.85E-06	2.69E-05	2.03E-05	2.03E-05	1.12E-05	1.01E-06	1.45E-05	9.03E-06	9.03E-06	4.47E-06
2796	257084.31	4086258.39	0.000012276	1.78E-04	1.31E-04	1.31E-04	7.30E-05	1.86E-06	2.71E-05	2.04E-05	2.04E-05	1.12E-05	1.01E-06	1.46E-05	9.09E-06	9.09E-06	4.50E-06
2797	257061.96	4086250.22	0.000012344	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2798	257039.61	4086242.06	0.000012395	1.79E-04	1.32E-04	1.32E-04	7.37E-05	1.88E-06	2.73E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.48E-05	9.18E-06	9.18E-06	4.54E-06
2799	257017.27	4086233.9	0.000012426	1.80E-04	1.32E-04	1.32E-04	7.38E-05	1.89E-06	2.74E-05	2.07E-05	2.07E-05	1.14E-05	1.02E-06	1.48E-05	9.20E-06	9.20E-06	4.55E-06
2800	256994.92	4086225.73	0.00001244	1.80E-04	1.33E-04	1.33E-04	7.39E-05	1.89E-06	2.74E-05	2.07E-05	2.07E-05	1.14E-05	1.03E-06	1.48E-05	9.21E-06	9.21E-06	4.56E-06
2801	256972.57	4086217.57	0.000012415	1.80E-04	1.32E-04	1.32E-04	7.38E-05	1.88E-06	2.74E-05	2.07E-05	2.07E-05	1.14E-05	1.02E-06	1.48E-05	9.19E-06	9.19E-06	4.55E-06
2802	256950.22	4086209.4	0.000012387	1.79E-04	1.32E-04	1.32E-04	7.36E-05	1.88E-06	2.73E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.48E-05	9.17E-06	9.17E-06	4.54E-06
2803	256927.87	4086201.24	0.00001237	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.73E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.16E-06	9.16E-06	4.53E-06
2804	256905.52	4086193.08	0.000012356	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.15E-06	9.15E-06	4.53E-06

2805	256883.17	4086184.91	0.000012344	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2806	256860.83	4086176.75	0.000012338	1.78E-04	1.32E-04	1.32E-04	7.33E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2807	256838.48	4086168.58	0.000012338	1.78E-04	1.32E-04	1.32E-04	7.33E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2808	256816.13	4086160.42	0.000012342	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.05E-05	2.05E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.52E-06
2809	256793.78	4086152.26	0.000012348	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.87E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.14E-06	9.14E-06	4.53E-06
2810	256771.43	4086144.09	0.000012356	1.79E-04	1.32E-04	1.32E-04	7.34E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.15E-06	9.15E-06	4.53E-06
2811	256749.08	4086135.93	0.000012364	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.16E-06	9.16E-06	4.53E-06
2812	256726.73	4086127.76	0.00001237	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.73E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.16E-06	9.16E-06	4.53E-06
2813	256704.38	4086119.6	0.000012374	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.73E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.48E-05	9.16E-06	9.16E-06	4.54E-06
2814	256672.08	4086089.82	0.000012577	1.82E-04	1.34E-04	1.34E-04	7.48E-05	1.91E-06	2.77E-05	2.09E-05	2.09E-05	1.15E-05	1.04E-06	1.50E-05	9.31E-06	9.31E-06	4.61E-06
2815	256662.13	4086068.21	0.000012784	1.85E-04	1.36E-04	1.36E-04	7.60E-05	1.94E-06	2.82E-05	2.13E-05	2.13E-05	1.17E-05	1.05E-06	1.52E-05	9.47E-06	9.47E-06	4.69E-06
2816	256652.18	4086046.6	0.000012995	1.88E-04	1.39E-04	1.39E-04	7.72E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.62E-06	9.62E-06	4.76E-06
2817	256642.23	4086024.99	0.000013163	1.90E-04	1.40E-04	1.40E-04	7.82E-05	2.00E-06	2.90E-05	2.19E-05	2.19E-05	1.20E-05	1.09E-06	1.57E-05	9.75E-06	9.75E-06	4.83E-06
2818	256632.28	4086003.38	0.000013309	1.92E-04	1.42E-04	1.42E-04	7.91E-05	2.02E-06	2.93E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.86E-06	9.86E-06	4.88E-06
2819	256622.32	4085981.76	0.000013428	1.94E-04	1.43E-04	1.43E-04	7.98E-05	2.04E-06	2.96E-05	2.23E-05	2.23E-05	1.23E-05	1.11E-06	1.60E-05	9.94E-06	9.94E-06	4.92E-06
2820	256612.37	4085960.15	0.000013508	1.95E-04	1.44E-04	1.44E-04	8.03E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.11E-06	1.61E-05	1.00E-05	1.00E-05	4.95E-06
2821	256602.42	4085938.54	0.000013549	1.96E-04	1.44E-04	1.44E-04	8.05E-05	2.06E-06	2.99E-05	2.26E-05	2.26E-05	1.24E-05	1.12E-06	1.62E-05	1.00E-05	1.00E-05	4.97E-06
2822	256592.47	4085916.93	0.00001354	1.96E-04	1.44E-04	1.44E-04	8.05E-05	2.05E-06	2.98E-05	2.25E-05	2.25E-05	1.24E-05	1.12E-06	1.61E-05	1.00E-05	1.00E-05	4.96E-06
2823	256582.52	4085895.32	0.000013481	1.95E-04	1.44E-04	1.44E-04	8.01E-05	2.05E-06	2.97E-05	2.24E-05	2.24E-05	1.23E-05	1.11E-06	1.61E-05	9.98E-06	9.98E-06	4.94E-06
2824	256572.56	4085873.7	0.000013366	1.93E-04	1.42E-04	1.42E-04	7.94E-05	2.03E-06	2.95E-05	2.22E-05	2.22E-05	1.22E-05	1.10E-06	1.59E-05	9.90E-06	9.90E-06	4.90E-06
2825	256562.61	4085852.09	0.000013198	1.91E-04	1.41E-04	1.41E-04	7.84E-05	2.00E-06	2.91E-05	2.20E-05	2.20E-05	1.21E-05	1.09E-06	1.57E-05	9.77E-06	9.77E-06	4.84E-06
2826	256552.66	4085830.48	0.000012973	1.88E-04	1.38E-04	1.38E-04	7.71E-05	1.97E-06	2.86E-05	2.16E-05	2.16E-05	1.19E-05	1.07E-06	1.55E-05	9.61E-06	9.61E-06	4.76E-06
2827	256542.71	4085808.87	0.000012694	1.84E-04	1.35E-04	1.35E-04	7.54E-05	1.93E-06	2.80E-05	2.11E-05	2.11E-05	1.16E-05	1.05E-06	1.51E-05	9.40E-06	9.40E-06	4.65E-06
2828	256532.76	4085787.26	0.00001236	1.79E-04	1.32E-04	1.32E-04	7.35E-05	1.88E-06	2.72E-05	2.06E-05	2.06E-05	1.13E-05	1.02E-06	1.47E-05	9.15E-06	9.15E-06	4.53E-06
2829	256522.8	4085765.64	0.000011975	1.73E-04	1.28E-04	1.28E-04	7.12E-05	1.82E-06	2.64E-05	1.99E-05	1.99E-05	1.10E-05	9.87E-07	1.43E-05	8.87E-06	8.87E-06	4.39E-06
2830	256512.85	4085744.03	0.000011543	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.51E-07	1.38E-05	8.55E-06	8.55E-06	4.23E-06
2831	256502.9	4085722.42	0.000011069	1.60E-04	1.18E-04	1.18E-04	6.58E-05	1.68E-06	2.44E-05	1.84E-05	1.84E-05	1.01E-05	9.12E-07	1.32E-05	8.20E-06	8.20E-06	4.06E-06
2832	256492.95	4085700.81	0.000010582	1.53E-04	1.13E-04	1.13E-04	6.29E-05	1.61E-06	2.33E-05	1.76E-05	1.76E-05	9.68E-06	8.72E-07	1.26E-05	7.84E-06	7.84E-06	3.88E-06
2833	256483	4085679.2	0.000010049	1.45E-04	1.07E-04	1.07E-04	5.97E-05	1.53E-06	2.21E-05	1.67E-05	1.67E-05	9.20E-06	8.28E-07	1.20E-05	7.44E-06	7.44E-06	3.68E-06
2834	256473.04	4085657.58	9.5037E-06	1.37E-04	1.01E-04	1.01E-04	5.65E-05	1.44E-06	2.09E-05	1.58E-05	1.58E-05	8.70E-06	7.83E-07	1.13E-05	7.04E-06	7.04E-06	3.48E-06
2835	256463.09	4085635.97	8.9607E-06	1.30E-04	9.55E-05	9.55E-05	5.33E-05	1.36E-06	1.97E-05	1.49E-05	1.49E-05	8.20E-06	7.39E-07	1.07E-05	6.64E-06	6.64E-06	3.28E-06
2836	256453.14	4085614.36	0.000008432	1.22E-04	8.99E-05	8.99E-05	5.01E-05	1.28E-06	1.86E-05	1.40E-05	1.40E-05	7.72E-06	6.95E-07	1.01E-05	6.24E-06	6.24E-06	3.09E-06
2837	256443.19	4085592.75	0.000007932	1.15E-04	8.46E-05	8.46E-05	4.71E-05	1.20E-06	1.75E-05	1.32E-05	1.32E-05	7.26E-06	6.54E-07	9.46E-06	5.87E-06	5.87E-06	2.91E-06
2838	256433.24	4085571.14	0.000007471	1.08E-04	7.96E-05	7.96E-05	4.44E-05	1.13E-06	1.65E-05	1.24E-05	1.24E-05	6.84E-06	6.16E-07	8.91E-06	5.53E-06	5.53E-06	2.74E-06
2839	256423.28	4085549.52	0.000007055	1.02E-04	7.52E-05	7.52E-05	4.19E-05	1.07E-06	1.55E-05	1.17E-05	1.17E-05	6.46E-06	5.82E-07	8.41E-06	5.22E-06	5.22E-06	2.59E-06
2840	256413.33	4085527.91	6.6923E-06	9.68E-05	7.13E-05	7.13E-05	3.98E-05	1.02E-06	1.47E-05	1.11E-05	1.11E-05	6.12E-06	5.52E-07	7.98E-06	4.96E-06	4.96E-06	2.45E-06
2841	256403.38	4085506.3	6.3788E-06	9.23E-05	6.80E-05	6.80E-05	3.79E-05	9.68E-07	1.41E-05	1.06E-05	1.06E-05	5.84E-06	5.26E-07	7.60E-06	4.72E-06	4.72E-06	2.34E-06
2842	256393.43	4085484.69	6.1165E-06	8.85E-05	6.52E-05	6.52E-05	3.64E-05	9.28E-07	1.35E-05	1.02E-05	1.02E-05	5.60E-06	5.04E-07	7.29E-06	4.53E-06	4.53E-06	2.24E-06
2843	256383.48	4085463.08	5.8952E-06	8.53E-05	6.28E-05	6.28E-05	3.50E-05	8.95E-07	1.30E-05	9.81E-06	9.81E-06	5.39E-06	4.86E-07	7.03E-06	4.37E-06	4.37E-06	2.16E-06
2844	256373.52	4085441.47	5.7088E-06	8.26E-05	6.09E-05	6.09E-05	3.39E-05	8.66E-07	1.26E-05	9.50E-06	9.50E-06	5.22E-06	4.71E-07	6.81E-06	4.23E-06	4.23E-06	2.09E-06
2845	256363.57	4085419.85	0.000005551	8.03E-05	5.92E-05	5.92E-05	3.30E-05	8.42E-07	1.22E-05	9.24E-06	9.24E-06	5.08E-06	4.58E-07	6.62E-06	4.11E-06	4.11E-06	2.03E-06
2846	256353.62	4085398.24	5.4117E-06	7.83E-05	5.77E-05	5.77E-05	3.22E-05	8.21E-07	1.19E-05	9.01E-06	9.01E-06	4.95E-06	4.46E-07	6.45E-06	4.01E-06	4.01E-06	1.98E-06
2847	256343.67	4085376.63	5.2846E-06	7.64E-05	5.63E-05	5.63E-05	3.14E-05	8.02E-07	1.16E-05	8.80E-06	8.80E-06	4.84E-06	4.36E-07	6.30E-06	3.91E-06	3.91E-06	1.94E-06
2848	256333.72	4085355.02	5.1658E-06	7.47E-05	5.51E-05	5.51E-05	3.07E-05	7.84E-07	1.14E-05	8.60E-06	8.60E-06	4.73E-06	4.26E-07	6.16E-06	3.83E-06	3.83E-06	1.89E-06
2849	256323.76	4085333.41	0.000005051	7.31E-05	5.38E-05	5.38E-05	3.00E-05	7.67E-07	1.11E-05	8.41E-06	8.41E-06	4.62E-06	4.16E-07	6.02E-06	3.74E-06	3.74E-06	1.85E-06
2850	256313.81	4085311.79	4.9404E-06	7.15E-05	5.27E-05	5.27E-05	2.94E-05	7.50E-07	1.09E-05	8.22E-06	8.22E-06	4.52E-06	4.07E-07	5.89E-06	3.66E-06	3.66E-06	1.81E-06
2851	256303.86	4085290.18	4.8338E-06	6.99E-05	5.15E-05	5.15E-05	2.87E-05	7.34E-07	1.07E-05	8.05E-06	8.05E-06	4.42E-06	3.98E-07	5.76E-06	3.58E-06	3.58E-06	1.77E-06
2852	256293.91	4085268.57	4.7334E-06	6.85E-05	5.05E-05	5.05E-05	2.81E-05	7.18E-07	1.04E-05	7.88E-06	7.88E-06	4.33E-06	3.90E-07	5.64E-06	3.51E-06	3.51E-06	1.74E-06
2853	256283.96	4085246.96	4.6412E-06	6.71E-05	4.95E-05	4.95E-05	2.76E-05	7.04E-07	1.02E-05	7.73E-06	7.73E-06	4.25E-06	3.83E-07	5.53E-06	3.44E-06	3.44E-06	1.70E-06
2854	256274	4085225.35	4.5592E-06	6.59E-05	4.86E-05	4.86E-05	2.71E-05	6.92E-07	1.00E-05	7.59E-06	7.59E-06	4.17E-06	3.76E-07	5.44E-06	3.38E-06	3.38E-06	1.67E-06
2855	257620.68	4086454.33	8.9259E-06	1.29E-04	9.52E-05	9.52E-05	5.30E-05	1.35E-06	1.97E-05	1.49E-05	1.49E-05	8.17E-06	7.36E-07	1.06E-05	6.61E-06	6.61E-06	3.27E-06
2856	257644.96	4086453.25	8.8132E-06	1.27E-04	9.40E-05	9.40E-05	5.24E-05	1.34E-06	1.94E-05	1.47E-05	1.47E-05	8.06E-06	7.26E-07	1.05E-05	6.53E-06	6.53E-06	3.23E-06
2857	257669.24	4086452.18	8.7005E-06	1.26E-04	9.28E-05	9.28E-05	5.17E-05	1.32E-06	1.92E-05	1.45E-05	1.45E-05	7.96E-06	7.17E-07	1.04E-05	6.44E-06	6.44E-06	3.19E-06
2858	257693.53	4086451.1	8.5837E-06	1.24E-04	9.15E-05	9.15E-05	5.10E-05	1.30E-06	1.89E-05	1.43E-05	1.43E-05	7.85E-06	7.08E-07	1.02E-05	6.36E-06	6.36E-06	3.15E-06
2859	257717.81	4086450.02	8.4669E-06	1.22E-04	9.03E-05	9.03E-05	5.03E-05	1.29E-06	1.87E-05	1.41E-05	1.41E-05	7.75E-06	6.98E-07	1.01E-05	6.27E-06	6.27E-06	3.10E-06
2860	257742.09	4086448.95	8.3501E-06	1.21E-04	8.90E-05	8.90E-05	4.96E-05	1.27E-06	1.84E-05	1.39E-05	1.39E-05	7.64E-06	6.88E-07	9.96E-06	6.18E-06	6.18E-06	3.06E-06
2861	257766.37	4086447.87	8.2497E-06	1.19E-04	8.79E-05	8.79E-05	4.90E-05	1.25E-06	1.82E-05	1.37E-05	1.37E-05	7.55E-06	6.80E-07	9.84E-06	6.11E-06	6.11E-06	3.02E-06
2862	257790.65	4086446.8	8.1513E-06	1.18E-04	8.69E-05	8.69E-05	4.84E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.46E-06	6.72E-07	9.72E-06	6.04E-06	6.04E-06	2.99E-06
2863	257814.94	4086445.72	8.0529E-06	1.16E-04	8.58E-05	8.58E-05	4.79E-05	1.22E-06	1.77E-05	1.34E-05	1.34E-05	7.37E-06	6.64E-07	9.60E-06	5.96E-06	5.96E-06	2.95E-06
2864	257839.22	4086444.65	7.9525E-06	1.15E-04	8.48E-05	8.48E-05	4.73E-05	1.21E-06	1.75E-05	1.32E-05	1.32E-05	7.28E-06	6.56E-07	9.48E-06	5.89E-06	5.89E-06	2.92E-06
2865	257863.5	4086443.57	7.8501E-06	1.14E-04	8.37E-05	8.37E-05	4.67E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.18E-06	6.47E-07	9.36E-06	5.81E-06	5.81E-06	2.88E-06
2866	257887.78	4086442.5	7.7415E-06	1.12E-04	8.25E-05	8.25E-05	4.60E-05	1.17E-06	1.71E-05	1.29E-05	1.29E-05	7.08E-06	6.38E-07	9.23E-06	5.73E-06	5.73E-06	2.84E-06
2867	257912.06	4086441.42	7.6288E-06	1.10E-04	8.13E-05	8.13E-05	4.53E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.98E-06	6.29E-07	9.10E-06	5.65E-06	5.65E-06	2.80E-06
2868	257936.34	4086440.35	7.5058E-06	1.09E-04	8.00E-05	8.00E-05	4.46E-05	1.14E-06	1.65E-05	1.25E-05	1.25E-05	6.87E-06	6.19E-07	8.95E-06	5.56E-06	5.56E-06	2.75E-06
2869	257960.63	4086439.27	7.3788E-06	1.07E-04	7.87E-05	7.87E-05	4.39E-05	1.12E-06	1.63E-05	1.23E-05	1.23E-05	6.75E-06	6.08E-07	8.80E-06	5.46E-06	5.46E-06	2.70E-06
2870	257984.91	4086438.19	7.2436E-06	1.05E-04	7.72E-05	7.72E-05	4.31E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.63E-06	5.97E-07	8.64E-06	5.36E-06	5.36E-06	2.66E-06
2871	258009.19	4086437.12	7.1022E-06	1.03E-04	7.57E-05	7.57E-05	4.22E-05	1.08E-06	1.56E-05	1.18E-05	1.18E-05	6.50E-06	5.85E-07	8.47E-06	5.26E-06	5.26E-06	2.60E-06
2872	258033.47	4086436.04	6.9587E-06	1.01E-04	7.42E-05	7.42E-05	4.14E-05	1.06E-06	1.53E-05	1.16E-05	1.16E-05	6.37E-06	5.74E-07	8.30E-06	5.15E-06	5.15E-06	2.55E-06
2873	258057.75	4086434.97	6.8153E-06	9.86E-05	7.27E-05	7.27E-05	4.05E-05	1.03E-06	1.50E-05	1.13E-05	1.13E-05	6.24E-06	5.62E-07	8.13E-06	5.05E-06	5.05E-06	2.50E-06
2874	258082.04	4086433.89	6.6719E-06	9.65E-05	7.11E-05	7.11E-05	3.97E-05	1.01E-06	1.47E-05	1.11E-05	1.11E-05	6.11E-06	5.50E-07	7.95E-06	4.94E-06	4.94E-06	2.45E-06
2875	258106.32	4086432.82	6.5325E-06	9.45E-05	6.96E-05	6.96E-05	3.88E-05	9.91E-07	1.44E-05	1.09E-05	1.09E-05	5.98E-06	5.38E-07	7.79E-06	4.84E-06	4.84E-06	2.39E-06
2876	258130.6	4086431.74	6.4014E-06	9.26E-05	6.82E-05	6.82E-05	3.80E-05	9.72E-07	1.41E-05	1.07E-05	1.07E-05	5.86E-06	5.28E-07	7.63E-06	4.74E-06	4.74E-06	2.35E-06
2877	258154.88	4086430.67	6.2784E-06	9.08E-05	6.69E-05	6.69E-05	3.73E-05	9.53E-07	1.38E-05	1.05E-05	1.05E-05	5.75E-06	5.18E-07	7.49E-06	4.65E-06	4.65E-06	2.30E-06
2878	258179.16	4086429.59	6.1637E-06	8.91E-05	6.57E-05	6.57E-05	3.66E-05	9.35E-07	1.36E-05	1.03E-05	1.03E-05	5.64E-06	5.08E-07	7.35E-06	4.56E-06	4.56E-06	2.26E-06
2879	258203.44	4086428.52	6.0551E-06	8.76E-05	6.45E-05	6.45E-05	3.60E-05	9.19E-07	1.33E-05	1.01E-05	1.01E-05	5.54E-06	4.99E-07	7.22E-06	4.48E-06	4.48E-06	2.22E-06
2880	258227.73	4086427.44	5.9526E-06	8.61E-05	6.35E-05	6.35E-05	3.54E-05	9.03E-07	1.31E-05	9.91E-06	9.91E-06	5.45E-06	4.91E-07	7.10E-06	4.41E-06	4.41E-06	2.18E-06
2881	258252.01	4086426.36	5.8543E-06	8.47E-05	6.24E-05	6.24E-05	3.48E-05	8.89E-07	1.29E-05	9.74E-06	9.74E-06	5.36E-06	4.83E-07	6.98E-06	4.34E-06	4.34E-06	2.15E-06
2882	258276.29	4086425.29	5.7539E-06	8.32E-05	6.13E-05	6.13E-05	3.42E-05	8.73E-07	1.27E-05	9.58E-06	9.58E-06	5.27E-06	4.74E-07	6.86E-06	4.26E-06	4.26E-06	2.11E-06
2883	258300.57	4086424.21	5.6514E-06	8.17E-05	6.02E-05	6.02E-05	3.36E-05	8.58E-07	1.25E-05	9.41E-06	9.41E-06	5.17E-06	4.66E-07	6.74E-06	4.19E-06	4.19E-06	2.07E-06
2884	258324.85	4086423.14	5.5469E-06	8.02E-05	5.91E-05	5.91E-05	3.30E-05	8.42E-07	1.22E-05	9.23E-06	9.23E-06	5.08E-06	4.57E-07	6.61E-06	4.11E-06	4.11E-06	2.03E-06
2885	258349.14	4086422.06	5.4403E-06	7.87E-05	5.80E-05	5.80E-05	3.23E-05	8.26E-07	1.20E-05	9.06E-06	9.06E-06	4.98E-06	4.48E-07	6.49E-06	4.03E-06	4.03E-06	1.99E-06
2886	258373.42	4086420.99	5.3317E-06	7.71E-05	5.68E-05	5.68E-05	3.17E-05	8.09E-07	1.17E-05	8.87E-06	8.87E-06	4.88E-06	4.39E-07	6.36E-06	3.95E-06	3.95E-06	1.95E-06
2887	258397.7	4086419.91	5.2231E-06	7.55E-05	5.57E-05	5.57E-05	3.10E-05	7.93E-07	1.15E-05	8.69E-06	8.69E-06	4.78E-06	4.31E-07	6.23E-06	3.87E-06	3.87E-06	1.91E-06
2888	258421.98	4086418.84	5.1145E-06	7.40E-05	5.45E-05	5.45E-05	3.04E-05	7.76E-07	1.13E-05	8.51E-06	8.51E-06	4.68E-06	4.22E-07	6.10E-06	3.79E-06	3.79E-06	1.87E-06
2889	257606.97	4086645.89	7.2661E-06	1.05E-04	7.75E-05	7.75E-05	4.32E-05	1.10E-06	1.60E-05	1.21E-05	1.21E-05	6.65E-06	5.99E-07	8.66E-06	5.38E-06	5.38E-06	2.66E-06
2890	257584.4	4086637.65	7.4034E-06	1.07E-04	7.89E-05	7.89E-05	4.40E-05	1.12E-06	1.63E-05	1.23E-05	1.23E-05	6.77E-06	6.10E-07	8.83E-06	5.48E-06	5.48E-06	2.71E-06
2891	257561.84	4086629.4	7.5489E-06	1.09E-04	8.05E-05	8.05E-05	4.49E-05	1.15E-06	1.66E-05	1.26E-05	1.26E-05	6.91E-06	6.22E-07	9.00E-06	5.59E-06	5.59E-06	2.77E-06
2892	257539.28	4086621.16	7.6964E-06	1.11E-04	8.20E-05	8.20E-05	4.57E-05	1.17E-06	1.70E-05	1.28E-05	1.28E-05	7.04E-06	6.34E-07	9.18E-06	5.70E-06	5.70E-06	2.82E-06
2893	257516.71	4086612.92	7.8501E-06	1.14E-04	8.37E-05	8.37E-05	4.67E-05	1.19E-06	1.73E-05	1.31E-05	1.31E-05	7.18E-06	6.47E-07	9.36E-06	5.81E-06	5.81E-06	2.88E-06
2894	257494.15	4086604.68	8.0058E-06	1.16E-04	8.53E-05	8.53E-05	4.76E-05	1.22E-06	1.76E-05	1.33E-05	1.33E-05	7.33E-06	6.60E-07	9.54E-06	5.93E-06	5.93E-06	2.93E-06
2895	257471.59	4086596.43	8.1615E-06	1.18E-04	8.70E-05	8.70E-05	4.85E-05	1.24E-06	1.80E-05	1.36E-05	1.36E-05	7.47E-06	6.73E-07	9.73E-06	6.04E-06	6.04E-06	2.99E-06
2896	257449.02	4086588.19	8.3152E-06	1.20E-04	8.86E-05	8.86E-05	4.94E-05	1.26E-06	1.83E-05	1.38E-05	1.38E-05	7.61E-06	6.85E-07	9.91E-06	6.16E-06	6.16E-06	3.05E-06
2897	257426.46	4086579.95	8.4628E-06	1.22E-04	9.02E-05	9.02E-05	5.03E-05	1.28E-06	1.86E-05	1.41E-05	1.41E-05	7.74E-06	6.98E-07	1.01E-05	6.27E-06	6.27E-06	3.10E-06
2898	257403.89	4086571.7	8.6041E-06	1.24E-04	9.17E-05	9.17E-05	5.11E-05	1.31E-06	1.90E-05	1.43E-05	1.43E-05	7.87E-06	7.09E-07	1.03E-05	6.37E-06	6.37E-06	3.15E-06
2899	257381.33	4086563.46	8.7373E-06	1.26E-04	9.31E-05	9.31E-05	5.19E-05	1.33E-06	1.93E-05	1.45E-05	1.45E-05	8.00E-06	7.20E-07	1.04E-05	6.47E-06	6.47E-06	3.20E-06
2900	257358.77	4086555.22	8.8582E-06	1.28E-04	9.44E-05	9.44E-05	5.26E-05	1.34E-06	1.95E-05	1.47E-05	1.47E-05	8.11E-06	7.30E-07	1.06E-05	6.56E-06	6.56E-06	3.25E-06
2901	257336.2	4086546.98	8.9709E-06	1.30E-04	9.56E-05	9.56E-05	5.33E-05	1.36E-06	1.98E-05	1.49E-05	1.49E-05	8.21E-06	7.39E-07	1.07E-05	6.64E-06	6.64E-06	3.29E-06
2902	257313.64	4086538.73	9.0734E-06	1.31E-04	9.67E-05	9.67E-05	5.39E-05	1.38E-06	2.00E-05	1.51E-05	1.51E-05	8.30E-06	7.48E-07	1.08E-05	6.72E-06	6.72E-06	3.33E-06
2903	257291.08	4086530.49	9.1697E-06	1.33E-04	9.78E-05	9.78E-05	5.45E-05	1.39E-06	2.02E-05	1.53E-05	1.53E-05	8.39E-06	7.56E-07	1.09E-05	6.79E-06	6.79E-06	3.36E-06
2904	257268.51	4086522.25	9.2619E-06	1.34E-04	9.87E-05	9.87E-05	5.50E-05	1.41E-06	2.04E-05	1.54E-05	1.54E-05	8.48E-06	7.63E-07	1.10E-05	6.86E-06	6.86E-06	3.40E-06
2905	257245.95	4086514.01	9.3582E-06	1.35E-04	9.98E-05	9.98E-05	5.56E-05	1.42E-06	2.06E-05	1.56E-05	1.56E-05	8.56E-06	7.71E-07	1.12E-05	6.93E-06	6.93E-06	3.43E-06
2906	257223.39	4086505.76	9.4627E-06	1.37E-04	1.01E-04	1.01E-04	5.62E-05	1.44E-06	2.08E-05	1.58E-05	1.58E-05	8.66E-06	7.80E-07	1.13E-05	7.01E-06	7.01E-06	3.47E-06
2907	257200.82	4086497.52	0.000009557	1.38E-04	1.02E-04	1.02E-04	5.68E-05	1.45E-06	2.11E-05	1.59E-05	1.59E-05	8.75E-06	7.88E-07	1.14E-05	7.08E-06	7.08E-06	3.50E-06
2908	257178.26	4086489.28	9.6471E-06	1.40E-04	1.03E-04	1.03E-04	5.73E-05	1.46E-06	2.13E-05	1.61E-05	1.61E-05	8.83E-06	7.95E-07	1.15E-05	7.14E-06	7.14E-06	3.54E-06
2909	257155.7	4086481.04	9.7393E-06	1.41E-04	1.04E-04	1.04E-04	5.79E-05	1.48E-06	2.15E-05	1.62E-05	1.62E-05	8.91E-06	8.03E-07	1.16E-05	7.21E-06	7.21E-06	3.57E-06
2910	257133.13	4086472.79	9.8295E-06	1.42E-04	1.05E-04	1.05E-04	5.84E-05	1.49E-06	2.17E-05	1.64E-05	1.64E-05	9.00E-06	8.10E-07	1.17E-05	7.28E-06	7.28E-06	3.60E-06
2911	257110.57	4086464.55	9.9197E-06	1.43E-04	1.06E-04	1.06E-04	5.90E-05	1.51E-06	2.19E-05	1.65E-05	1.65E-05	9.08E-06	8.18E-07	1.18E-05	7.35E-06	7.35E-06	3.64E-06
2912	257088	4086456.31	0.000010008	1.45E-04	1.07E-04	1.07E-04	5.95E-05	1.52E-06	2.21E-05	1.67E-05	1.67E-05	9.16E-06	8.25E-07	1.19E-05	7.41E-06	7.41E-06	3.67E-06
2913	257065.44	4086448.07	0.00001009	1.46E-04	1.08E-04	1.08E-04	6.00E-05	1.53E-06	2.22E-05	1.68E-05	1.68E-05	9.23E-06	8.32E-07	1.20E-05	7.47E-06	7.47E-06	3.70E-06
2914	257042.88	4086439.82	0.000010166	1.47E-04	1.08E-04	1.08E-04	6.04E-05	1.54E-06	2.24E-05	1.69E-05	1.69E-05	9.30E-06	8.38E-07	1.21E-05	7.53E-06	7.53E-06	3.73E-06
2915	257020.31	4086431.58	0.000010233	1.48E-04	1.09E-04	1.09E-04	6.08E-05	1.55E-06	2.25E-05	1.70E-05	1.70E-05	9.36E-06	8.43E-07	1.22E-05	7.58E-06	7.58E-06	3.75E-06
2916	256997.75	4086423.34	0.000010289	1.49E-04	1.10E-04	1.10E-04	6.11E-05	1.56E-06	2.27E-05	1.71E-05	1.71E-05	9.42E-06	8.48E-07	1.23E-05	7.62E-06	7.62E-06	3.77E-06
2917	256975.19	4086415.1	0.000010329	1.49E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.45E-06	8.51E-07	1.23E-05	7.65E-06	7.65E-06	3.79E-06
2918	256952.62	4086406.85	0.000010358	1.50E-04	1.10E-04	1.10E-04	6.16E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.48E-06	8.54E-07	1.23E-05	7.67E-06	7.67E-06	3.80E-06
2919	256930.06	4086398.61	0.000010373	1.50E-04	1.11E-04	1.11E-04	6.16E-05	1.57E-06	2.29E-05	1.73E-05	1.73E-05	9.49E-06	8.55E-07	1.24E-05	7.68E-06	7.68E-06	3.80E-06
2920	256907.5	4086390.37	0.000010373	1.50E-04	1.11E-04	1.11E-04	6.16E-05	1.57E-06	2.29E-05	1.73E-05	1.73E-05	9.49E-06	8.55E-07	1.24E-05	7.68E-06	7.68E-06	3.80E-06
2921	256884.93	4086382.13	0.000010366	1.50E-04	1.11E-04	1.11E-04	6.16E-05	1.57E-06	2.28E-05	1.73E-05	1.73E-05	9.49E-06	8.54E-07	1.24E-05	7.68E-06	7.68E-06	3.80E-06

2922	256862.37	4086373.88	0.000010352	1.50E-04	1.10E-04	1.10E-04	6.15E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.47E-06	8.53E-07	1.23E-05	7.67E-06	7.67E-06	3.79E-06
2923	256839.8	4086365.64	0.000010338	1.50E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.46E-06	8.52E-07	1.23E-05	7.66E-06	7.66E-06	3.79E-06
2924	256817.24	4086357.4	0.000010323	1.49E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.45E-06	8.51E-07	1.23E-05	7.65E-06	7.65E-06	3.78E-06
2925	256794.68	4086349.15	0.000010315	1.49E-04	1.10E-04	1.10E-04	6.13E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.44E-06	8.50E-07	1.23E-05	7.64E-06	7.64E-06	3.78E-06
2926	256772.11	4086340.91	0.000010313	1.49E-04	1.10E-04	1.10E-04	6.13E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.44E-06	8.50E-07	1.23E-05	7.64E-06	7.64E-06	3.78E-06
2927	256749.55	4086332.67	0.000010319	1.49E-04	1.10E-04	1.10E-04	6.13E-05	1.57E-06	2.27E-05	1.72E-05	1.72E-05	9.44E-06	8.51E-07	1.23E-05	7.64E-06	7.64E-06	3.78E-06
2928	256726.99	4086324.43	0.000010329	1.49E-04	1.10E-04	1.10E-04	6.14E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.45E-06	8.51E-07	1.23E-05	7.65E-06	7.65E-06	3.79E-06
2929	256704.42	4086316.18	0.000010346	1.50E-04	1.10E-04	1.10E-04	6.15E-05	1.57E-06	2.28E-05	1.72E-05	1.72E-05	9.47E-06	8.53E-07	1.23E-05	7.66E-06	7.66E-06	3.79E-06
2930	256681.86	4086307.94	0.000010366	1.50E-04	1.11E-04	1.11E-04	6.16E-05	1.57E-06	2.28E-05	1.73E-05	1.73E-05	9.49E-06	8.54E-07	1.24E-05	7.68E-06	7.68E-06	3.80E-06
2931	256659.3	4086299.7	0.000010389	1.50E-04	1.11E-04	1.11E-04	6.17E-05	1.58E-06	2.29E-05	1.73E-05	1.73E-05	9.51E-06	8.56E-07	1.24E-05	7.69E-06	7.69E-06	3.81E-06
2932	256636.73	4086291.46	0.000010411	1.51E-04	1.11E-04	1.11E-04	6.19E-05	1.58E-06	2.29E-05	1.73E-05	1.73E-05	9.53E-06	8.58E-07	1.24E-05	7.71E-06	7.71E-06	3.82E-06
2933	256614.17	4086283.21	0.000010448	1.51E-04	1.11E-04	1.11E-04	6.21E-05	1.59E-06	2.30E-05	1.74E-05	1.74E-05	9.56E-06	8.61E-07	1.25E-05	7.74E-06	7.74E-06	3.83E-06
2934	256591.61	4086274.97	0.000010487	1.52E-04	1.12E-04	1.12E-04	6.23E-05	1.59E-06	2.31E-05	1.75E-05	1.75E-05	9.60E-06	8.64E-07	1.25E-05	7.77E-06	7.77E-06	3.84E-06
2935	256569.04	4086266.73	0.000010508	1.52E-04	1.12E-04	1.12E-04	6.25E-05	1.59E-06	2.32E-05	1.75E-05	1.75E-05	9.62E-06	8.66E-07	1.25E-05	7.78E-06	7.78E-06	3.85E-06
2936	256536.43	4086236.67	0.00001069	1.55E-04	1.14E-04	1.14E-04	6.35E-05	1.62E-06	2.36E-05	1.78E-05	1.78E-05	9.78E-06	8.81E-07	1.27E-05	7.92E-06	7.92E-06	3.92E-06
2937	256526.38	4086214.85	0.000010854	1.57E-04	1.16E-04	1.16E-04	6.45E-05	1.65E-06	2.39E-05	1.81E-05	1.81E-05	9.93E-06	8.95E-07	1.29E-05	8.04E-06	8.04E-06	3.98E-06
2938	256516.33	4086193.03	0.000011014	1.59E-04	1.17E-04	1.17E-04	6.55E-05	1.67E-06	2.43E-05	1.83E-05	1.83E-05	1.01E-05	9.08E-07	1.31E-05	8.16E-06	8.16E-06	4.04E-06
2939	256506.29	4086171.21	0.000011166	1.61E-04	1.19E-04	1.19E-04	6.64E-05	1.69E-06	2.46E-05	1.86E-05	1.86E-05	1.02E-05	9.20E-07	1.33E-05	8.27E-06	8.27E-06	4.09E-06
2940	256496.24	4086149.39	0.000011307	1.64E-04	1.21E-04	1.21E-04	6.72E-05	1.72E-06	2.49E-05	1.88E-05	1.88E-05	1.03E-05	9.32E-07	1.35E-05	8.37E-06	8.37E-06	4.14E-06
2941	256486.19	4086127.57	0.000011432	1.65E-04	1.22E-04	1.22E-04	6.79E-05	1.74E-06	2.52E-05	1.90E-05	1.90E-05	1.05E-05	9.42E-07	1.36E-05	8.47E-06	8.47E-06	4.19E-06
2942	256476.14	4086105.75	0.000011538	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.51E-07	1.38E-05	8.54E-06	8.54E-06	4.23E-06
2943	256466.1	4086083.93	0.00001162	1.68E-04	1.24E-04	1.24E-04	6.91E-05	1.76E-06	2.56E-05	1.93E-05	1.93E-05	1.06E-05	9.58E-07	1.39E-05	8.61E-06	8.61E-06	4.26E-06
2944	256456.05	4086062.11	0.000011676	1.69E-04	1.24E-04	1.24E-04	6.94E-05	1.77E-06	2.57E-05	1.94E-05	1.94E-05	1.07E-05	9.62E-07	1.39E-05	8.65E-06	8.65E-06	4.28E-06
2945	256446	4086040.29	0.000011696	1.69E-04	1.25E-04	1.25E-04	6.95E-05	1.78E-06	2.58E-05	1.95E-05	1.95E-05	1.07E-05	9.64E-07	1.39E-05	8.66E-06	8.66E-06	4.29E-06
2946	256435.95	4086018.47	0.000011684	1.69E-04	1.25E-04	1.25E-04	6.94E-05	1.77E-06	2.57E-05	1.94E-05	1.94E-05	1.07E-05	9.63E-07	1.39E-05	8.65E-06	8.65E-06	4.28E-06
2947	256425.91	4085996.65	0.000011633	1.68E-04	1.24E-04	1.24E-04	6.91E-05	1.77E-06	2.56E-05	1.94E-05	1.94E-05	1.06E-05	9.59E-07	1.39E-05	8.61E-06	8.61E-06	4.26E-06
2948	256415.86	4085974.83	0.000011543	1.67E-04	1.23E-04	1.23E-04	6.86E-05	1.75E-06	2.54E-05	1.92E-05	1.92E-05	1.06E-05	9.51E-07	1.38E-05	8.55E-06	8.55E-06	4.23E-06
2949	256405.81	4085953.01	0.000011411	1.65E-04	1.22E-04	1.22E-04	6.78E-05	1.73E-06	2.51E-05	1.90E-05	1.90E-05	1.04E-05	9.41E-07	1.36E-05	8.45E-06	8.45E-06	4.18E-06
2950	256395.76	4085931.19	0.000011237	1.63E-04	1.20E-04	1.20E-04	6.68E-05	1.71E-06	2.48E-05	1.87E-05	1.87E-05	1.03E-05	9.26E-07	1.34E-05	8.32E-06	8.32E-06	4.12E-06
2951	256385.71	4085909.37	0.000011024	1.59E-04	1.18E-04	1.18E-04	6.55E-05	1.67E-06	2.43E-05	1.83E-05	1.83E-05	1.01E-05	9.09E-07	1.31E-05	8.16E-06	8.16E-06	4.04E-06
2952	256375.67	4085887.55	0.000010776	1.56E-04	1.15E-04	1.15E-04	6.40E-05	1.64E-06	2.37E-05	1.79E-05	1.79E-05	9.86E-06	8.88E-07	1.28E-05	7.98E-06	7.98E-06	3.95E-06
2953	256365.62	4085865.73	0.000010493	1.52E-04	1.12E-04	1.12E-04	6.24E-05	1.59E-06	2.31E-05	1.75E-05	1.75E-05	9.60E-06	8.65E-07	1.25E-05	7.77E-06	7.77E-06	3.85E-06
2954	256355.57	4085843.91	0.000010149	1.47E-04	1.08E-04	1.08E-04	6.03E-05	1.54E-06	2.24E-05	1.69E-05	1.69E-05	9.29E-06	8.37E-07	1.21E-05	7.52E-06	7.52E-06	3.72E-06
2955	256345.52	4085822.09	9.7783E-06	1.41E-04	1.04E-04	1.04E-04	5.81E-05	1.48E-06	2.15E-05	1.63E-05	1.63E-05	8.95E-06	8.06E-07	1.17E-05	7.24E-06	7.24E-06	3.58E-06
2956	256335.48	4085800.27	9.3746E-06	1.36E-04	9.99E-05	9.99E-05	5.57E-05	1.42E-06	2.07E-05	1.56E-05	1.56E-05	8.58E-06	7.73E-07	1.12E-05	6.94E-06	6.94E-06	3.44E-06
2957	256325.43	4085778.45	8.9525E-06	1.29E-04	9.54E-05	9.54E-05	5.32E-05	1.36E-06	1.97E-05	1.49E-05	1.49E-05	8.19E-06	7.38E-07	1.07E-05	6.63E-06	6.63E-06	3.28E-06
2958	256315.38	4085756.63	0.000008514	1.23E-04	9.08E-05	9.08E-05	5.06E-05	1.29E-06	1.88E-05	1.42E-05	1.42E-05	7.79E-06	7.02E-07	1.02E-05	6.31E-06	6.31E-06	3.12E-06
2959	256305.33	4085734.81	8.0714E-06	1.17E-04	8.60E-05	8.60E-05	4.80E-05	1.22E-06	1.78E-05	1.34E-05	1.34E-05	7.39E-06	6.65E-07	9.62E-06	5.98E-06	5.98E-06	2.96E-06
2960	256295.29	4085712.99	0.000007637	1.10E-04	8.14E-05	8.14E-05	4.54E-05	1.16E-06	1.68E-05	1.27E-05	1.27E-05	6.99E-06	6.30E-07	9.11E-06	5.66E-06	5.66E-06	2.80E-06
2961	256285.24	4085691.17	0.000007219	1.04E-04	7.70E-05	7.70E-05	4.29E-05	1.10E-06	1.59E-05	1.20E-05	1.20E-05	6.61E-06	5.95E-07	8.61E-06	5.35E-06	5.35E-06	2.65E-06
2962	256275.19	4085669.35	6.8132E-06	9.85E-05	7.26E-05	7.26E-05	4.05E-05	1.03E-06	1.50E-05	1.13E-05	1.13E-05	6.23E-06	5.62E-07	8.12E-06	5.05E-06	5.05E-06	2.50E-06
2963	256265.14	4085647.53	6.4403E-06	9.31E-05	6.87E-05	6.87E-05	3.83E-05	9.77E-07	1.42E-05	1.07E-05	1.07E-05	5.89E-06	5.31E-07	7.68E-06	4.77E-06	4.77E-06	2.36E-06
2964	256255.09	4085625.71	6.1022E-06	8.83E-05	6.51E-05	6.51E-05	3.63E-05	9.26E-07	1.34E-05	1.02E-05	1.02E-05	5.58E-06	5.03E-07	7.28E-06	4.52E-06	4.52E-06	2.24E-06
2965	256245.05	4085603.89	0.000005803	8.39E-05	6.19E-05	6.19E-05	3.45E-05	8.81E-07	1.28E-05	9.66E-06	9.66E-06	5.31E-06	4.78E-07	6.92E-06	4.30E-06	4.30E-06	2.13E-06
2966	256235	4085582.07	5.5428E-06	8.02E-05	5.91E-05	5.91E-05	3.29E-05	8.41E-07	1.22E-05	9.23E-06	9.23E-06	5.07E-06	4.57E-07	6.61E-06	4.10E-06	4.10E-06	2.03E-06
2967	256224.95	4085560.26	5.3235E-06	7.70E-05	5.68E-05	5.68E-05	3.16E-05	8.08E-07	1.17E-05	8.86E-06	8.86E-06	4.87E-06	4.39E-07	6.35E-06	3.94E-06	3.94E-06	1.95E-06
2968	256214.9	4085538.44	5.1391E-06	7.43E-05	5.48E-05	5.48E-05	3.05E-05	7.80E-07	1.13E-05	8.55E-06	8.55E-06	4.70E-06	4.24E-07	6.13E-06	3.81E-06	3.81E-06	1.88E-06
2969	256204.86	4085516.62	4.9854E-06	7.21E-05	5.31E-05	5.31E-05	2.96E-05	7.57E-07	1.10E-05	8.30E-06	8.30E-06	4.56E-06	4.11E-07	5.94E-06	3.69E-06	3.69E-06	1.83E-06
2970	256194.81	4085494.8	4.8564E-06	7.02E-05	5.18E-05	5.18E-05	2.89E-05	7.37E-07	1.07E-05	8.08E-06	8.08E-06	4.44E-06	4.00E-07	5.79E-06	3.60E-06	3.60E-06	1.78E-06
2971	256184.76	4085472.98	4.7478E-06	6.87E-05	5.06E-05	5.06E-05	2.82E-05	7.21E-07	1.05E-05	7.90E-06	7.90E-06	4.34E-06	3.91E-07	5.66E-06	3.52E-06	3.52E-06	1.74E-06
2972	256174.71	4085451.16	4.6494E-06	6.72E-05	4.96E-05	4.96E-05	2.76E-05	7.06E-07	1.02E-05	7.74E-06	7.74E-06	4.25E-06	3.83E-07	5.54E-06	3.44E-06	3.44E-06	1.70E-06
2973	256164.67	4085429.34	4.5613E-06	6.60E-05	4.86E-05	4.86E-05	2.71E-05	6.92E-07	1.01E-05	7.59E-06	7.59E-06	4.17E-06	3.76E-07	5.44E-06	3.38E-06	3.38E-06	1.67E-06
2974	256154.62	4085407.52	4.4752E-06	6.47E-05	4.77E-05	4.77E-05	2.66E-05	6.79E-07	9.86E-06	7.45E-06	7.45E-06	4.10E-06	3.69E-07	5.34E-06	3.31E-06	3.31E-06	1.64E-06
2975	256144.57	4085385.7	4.3892E-06	6.35E-05	4.68E-05	4.68E-05	2.61E-05	6.66E-07	9.67E-06	7.31E-06	7.31E-06	4.02E-06	3.62E-07	5.23E-06	3.25E-06	3.25E-06	1.61E-06
2976	256134.52	4085363.88	4.3031E-06	6.22E-05	4.59E-05	4.59E-05	2.56E-05	6.53E-07	9.48E-06	7.16E-06	7.16E-06	3.94E-06	3.55E-07	5.13E-06	3.19E-06	3.19E-06	1.58E-06
2977	256124.47	4085342.06	0.000004217	6.10E-05	4.50E-05	4.50E-05	2.51E-05	6.40E-07	9.29E-06	7.02E-06	7.02E-06	3.86E-06	3.48E-07	5.03E-06	3.12E-06	3.12E-06	1.55E-06
2978	256114.43	4085320.24	0.000004131	5.97E-05	4.40E-05	4.40E-05	2.46E-05	6.27E-07	9.10E-06	6.88E-06	6.88E-06	3.78E-06	3.41E-07	4.93E-06	3.06E-06	3.06E-06	1.51E-06
2979	256104.38	4085298.42	4.0511E-06	5.86E-05	4.32E-05	4.32E-05	2.41E-05	6.15E-07	8.93E-06	6.74E-06	6.74E-06	3.71E-06	3.34E-07	4.83E-06	3.00E-06	3.00E-06	1.48E-06
2980	256094.33	4085276.6	3.9773E-06	5.75E-05	4.24E-05	4.24E-05	2.36E-05	6.04E-07	8.76E-06	6.62E-06	6.62E-06	3.64E-06	3.28E-07	4.74E-06	2.95E-06	2.95E-06	1.46E-06
2981	256084.28	4085254.78	3.9056E-06	5.65E-05	4.16E-05	4.16E-05	2.32E-05	5.93E-07	8.61E-06	6.50E-06	6.50E-06	3.57E-06	3.22E-07	4.66E-06	2.89E-06	2.89E-06	1.43E-06
2982	256074.24	4085232.96	3.8462E-06	5.56E-05	4.10E-05	4.10E-05	2.29E-05	5.84E-07	8.47E-06	6.40E-06	6.40E-06	3.52E-06	3.17E-07	4.59E-06	2.85E-06	2.85E-06	1.41E-06
2983	257629.53	4086654.13	0.000007137	1.03E-04	7.61E-05	7.61E-05	4.24E-05	1.08E-06	1.57E-05	1.19E-05	1.19E-05	6.53E-06	5.88E-07	8.51E-06	5.29E-06	5.29E-06	2.62E-06
2984	257653.81	4086653.06	7.0714E-06	1.02E-04	7.54E-05	7.54E-05	4.20E-05	1.07E-06	1.56E-05	1.18E-05	1.18E-05	6.47E-06	5.83E-07	8.43E-06	5.24E-06	5.24E-06	2.59E-06
2985	257678.09	4086651.98	0.00000701	1.01E-04	7.47E-05	7.47E-05	4.17E-05	1.06E-06	1.54E-05	1.17E-05	1.17E-05	6.41E-06	5.78E-07	8.36E-06	5.19E-06	5.19E-06	2.57E-06
2986	257702.38	4086650.9	6.9485E-06	1.01E-04	7.41E-05	7.41E-05	4.13E-05	1.05E-06	1.53E-05	1.16E-05	1.16E-05	6.36E-06	5.73E-07	8.28E-06	5.15E-06	5.15E-06	2.55E-06
2987	257726.66	4086649.83	6.8911E-06	9.97E-05	7.35E-05	7.35E-05	4.10E-05	1.05E-06	1.52E-05	1.15E-05	1.15E-05	6.31E-06	5.68E-07	8.22E-06	5.10E-06	5.10E-06	2.53E-06
2988	257750.94	4086648.75	6.8337E-06	9.88E-05	7.29E-05	7.29E-05	4.06E-05	1.04E-06	1.51E-05	1.14E-05	1.14E-05	6.25E-06	5.63E-07	8.15E-06	5.06E-06	5.06E-06	2.51E-06
2989	257775.22	4086647.68	6.7743E-06	9.80E-05	7.22E-05	7.22E-05	4.03E-05	1.03E-06	1.49E-05	1.13E-05	1.13E-05	6.20E-06	5.58E-07	8.08E-06	5.02E-06	5.02E-06	2.48E-06
2990	257799.5	4086646.6	6.7128E-06	9.71E-05	7.16E-05	7.16E-05	3.99E-05	1.02E-06	1.48E-05	1.12E-05	1.12E-05	6.14E-06	5.53E-07	8.00E-06	4.97E-06	4.97E-06	2.46E-06
2991	257823.79	4086645.53	6.6473E-06	9.61E-05	7.09E-05	7.09E-05	3.95E-05	1.01E-06	1.46E-05	1.11E-05	1.11E-05	6.08E-06	5.48E-07	7.92E-06	4.92E-06	4.92E-06	2.44E-06
2992	257848.07	4086644.45	6.5755E-06	9.51E-05	7.01E-05	7.01E-05	3.91E-05	9.98E-07	1.45E-05	1.09E-05	1.09E-05	6.02E-06	5.42E-07	7.84E-06	4.87E-06	4.87E-06	2.41E-06
2993	257872.35	4086643.38	6.4977E-06	9.40E-05	6.93E-05	6.93E-05	3.86E-05	9.86E-07	1.43E-05	1.08E-05	1.08E-05	5.95E-06	5.36E-07	7.75E-06	4.81E-06	4.81E-06	2.38E-06
2994	257896.63	4086642.3	6.4116E-06	9.27E-05	6.84E-05	6.84E-05	3.81E-05	9.73E-07	1.41E-05	1.07E-05	1.07E-05	5.87E-06	5.29E-07	7.64E-06	4.75E-06	4.75E-06	2.35E-06
2995	257920.91	4086641.23	6.3194E-06	9.14E-05	6.74E-05	6.74E-05	3.76E-05	9.59E-07	1.39E-05	1.05E-05	1.05E-05	5.78E-06	5.21E-07	7.53E-06	4.68E-06	4.68E-06	2.32E-06
2996	257945.19	4086640.15	0.000006219	8.99E-05	6.63E-05	6.63E-05	3.70E-05	9.44E-07	1.37E-05	1.04E-05	1.04E-05	5.69E-06	5.13E-07	7.41E-06	4.61E-06	4.61E-06	2.28E-06
2997	257969.48	4086639.07	6.1125E-06	8.84E-05	6.52E-05	6.52E-05	3.63E-05	9.28E-07	1.35E-05	1.02E-05	1.02E-05	5.59E-06	5.04E-07	7.29E-06	4.53E-06	4.53E-06	2.24E-06
2998	257993.76	4086638	5.9997E-06	8.68E-05	6.40E-05	6.40E-05	3.57E-05	9.11E-07	1.32E-05	9.99E-06	9.99E-06	5.49E-06	4.95E-07	7.15E-06	4.44E-06	4.44E-06	2.20E-06
2999	258018.04	4086636.92	5.8809E-06	8.51E-05	6.27E-05	6.27E-05	3.50E-05	8.93E-07	1.30E-05	9.79E-06	9.79E-06	5.38E-06	4.85E-07	7.01E-06	4.36E-06	4.36E-06	2.16E-06
3000	258042.32	4086635.85	0.00000576	8.33E-05	6.14E-05	6.14E-05	3.42E-05	8.74E-07	1.27E-05	9.59E-06	9.59E-06	5.27E-06	4.75E-07	6.87E-06	4.27E-06	4.27E-06	2.11E-06
3001	258066.6	4086634.77	5.6391E-06	8.16E-05	6.01E-05	6.01E-05	3.35E-05	8.56E-07	1.24E-05	9.39E-06	9.39E-06	5.16E-06	4.65E-07	6.72E-06	4.18E-06	4.18E-06	2.07E-06
3002	258090.89	4086633.7	5.5203E-06	7.98E-05	5.88E-05	5.88E-05	3.28E-05	8.38E-07	1.22E-05	9.19E-06	9.19E-06	5.05E-06	4.55E-07	6.58E-06	4.09E-06	4.09E-06	2.02E-06
3003	258115.17	4086632.62	5.4035E-06	7.82E-05	5.76E-05	5.76E-05	3.21E-05	8.20E-07	1.19E-05	8.99E-06	8.99E-06	4.94E-06	4.45E-07	6.44E-06	4.00E-06	4.00E-06	1.98E-06
3004	258139.45	4086631.55	5.2928E-06	7.66E-05	5.64E-05	5.64E-05	3.15E-05	8.03E-07	1.17E-05	8.81E-06	8.81E-06	4.84E-06	4.36E-07	6.31E-06	3.92E-06	3.92E-06	1.94E-06
3005	258163.73	4086630.47	5.1904E-06	7.51E-05	5.53E-05	5.53E-05	3.08E-05	7.88E-07	1.14E-05	8.64E-06	8.64E-06	4.75E-06	4.28E-07	6.19E-06	3.84E-06	3.84E-06	1.90E-06
3006	258188.01	4086629.4	5.0961E-06	7.37E-05	5.43E-05	5.43E-05	3.03E-05	7.73E-07	1.12E-05	8.48E-06	8.48E-06	4.66E-06	4.20E-07	6.08E-06	3.77E-06	3.77E-06	1.87E-06
3007	258212.29	4086628.32	0.000005008	7.24E-05	5.34E-05	5.34E-05	2.98E-05	7.60E-07	1.10E-05	8.34E-06	8.34E-06	4.58E-06	4.13E-07	5.97E-06	3.71E-06	3.71E-06	1.84E-06
3008	258236.58	4086627.24	0.000004926	7.12E-05	5.25E-05	5.25E-05	2.93E-05	7.48E-07	1.09E-05	8.20E-06	8.20E-06	4.51E-06	4.06E-07	5.87E-06	3.65E-06	3.65E-06	1.81E-06
3009	258260.86	4086626.17	4.8482E-06	7.01E-05	5.17E-05	5.17E-05	2.88E-05	7.36E-07	1.07E-05	8.07E-06	8.07E-06	4.44E-06	4.00E-07	5.78E-06	3.59E-06	3.59E-06	1.78E-06
3010	258285.14	4086625.09	4.7744E-06	6.91E-05	5.09E-05	5.09E-05	2.84E-05	7.25E-07	1.05E-05	7.95E-06	7.95E-06	4.37E-06	3.94E-07	5.69E-06	3.54E-06	3.54E-06	1.75E-06
3011	258309.42	4086624.02	4.7027E-06	6.80E-05	5.01E-05	5.01E-05	2.79E-05	7.14E-07	1.04E-05	7.83E-06	7.83E-06	4.30E-06	3.88E-07	5.61E-06	3.48E-06	3.48E-06	1.72E-06
3012	258333.7	4086622.94	0.000004631	6.70E-05	4.94E-05	4.94E-05	2.75E-05	7.03E-07	1.02E-05	7.71E-06	7.71E-06	4.24E-06	3.82E-07	5.52E-06	3.43E-06	3.43E-06	1.70E-06
3013	258357.99	4086621.87	4.5613E-06	6.60E-05	4.86E-05	4.86E-05	2.71E-05	6.92E-07	1.01E-05	7.59E-06	7.59E-06	4.17E-06	3.76E-07	5.44E-06	3.38E-06	3.38E-06	1.67E-06
3014	258382.27	4086620.79	4.4937E-06	6.50E-05	4.79E-05	4.79E-05	2.67E-05	6.82E-07	9.90E-06	7.48E-06	7.48E-06	4.11E-06	3.70E-07	5.36E-06	3.33E-06	3.33E-06	1.65E-06
3015	258406.55	4086619.72	0.000004424	6.40E-05	4.72E-05	4.72E-05	2.63E-05	6.71E-07	9.75E-06	7.36E-06	7.36E-06	4.05E-06	3.65E-07	5.27E-06	3.28E-06	3.28E-06	1.62E-06
3016	258430.83	4086618.64	4.3543E-06	6.30E-05	4.64E-05	4.64E-05	2.59E-05	6.61E-07	9.59E-06	7.25E-06	7.25E-06	3.98E-06	3.59E-07	5.19E-06	3.22E-06	3.22E-06	1.60E-06

					2830
			2823	256582.52	4085895.32
	Max Yr	**2**	UnMitigated	T2L3	T4
	Row	**33**	9.75E-04	1.49E-04	8.04E-05
		Col	**3**	**4**	**5**
		Adjustment	**100%**	**15%**	**8%**
			Year 2	Year 2	Year 2
1	258389.5	4085119	1.73E-02	2.63E-03	1.42E-03
2	258388.7	4085095	2.75E-02	4.19E-03	2.27E-03
3	258388	4085070	3.82E-02	5.81E-03	3.15E-03
4	258387.3	4085045	4.49E-02	6.84E-03	3.70E-03
5	258386.6	4085020	4.88E-02	7.43E-03	4.02E-03
6	258385.8	4084996	5.06E-02	7.71E-03	4.17E-03
7	258385.1	4084971	5.06E-02	7.71E-03	4.17E-03
8	258384.4	4084946	4.86E-02	7.40E-03	4.00E-03
9	258383.7	4084921	4.19E-02	6.38E-03	3.45E-03
10	258407.8	4085136	1.06E-02	1.62E-03	8.76E-04
11	258383.9	4085162	1.03E-02	1.56E-03	8.46E-04
12	258413.7	4085094	1.70E-02	2.58E-03	1.40E-03
13	258413	4085069	2.28E-02	3.47E-03	1.88E-03
14	258412.3	4085044	2.77E-02	4.22E-03	2.28E-03
15	258411.6	4085020	3.12E-02	4.76E-03	2.57E-03
16	258410.8	4084995	3.33E-02	5.08E-03	2.75E-03
17	258410.1	4084970	3.42E-02	5.20E-03	2.82E-03
18	258409.4	4084945	3.35E-02	5.10E-03	2.76E-03
19	258408.7	4084921	3.11E-02	4.73E-03	2.56E-03
20	258432.8	4085136	8.37E-03	1.28E-03	6.90E-04
21	258402.2	4085179	7.38E-03	1.12E-03	6.08E-04
22	258438.7	4085093	1.20E-02	1.83E-03	9.91E-04
23	258438	4085068	1.54E-02	2.35E-03	1.27E-03
24	258437.3	4085044	1.89E-02	2.87E-03	1.55E-03
25	258436.5	4085019	2.17E-02	3.30E-03	1.79E-03
26	258435.8	4084994	2.37E-02	3.61E-03	1.95E-03
27	258435.1	4084969	2.48E-02	3.78E-03	2.04E-03
28	258434.4	4084945	2.49E-02	3.80E-03	2.06E-03
29	258433.7	4084920	2.41E-02	3.67E-03	1.99E-03
30	258457.7	4085135	6.83E-03	1.04E-03	5.63E-04
31	258444.4	4085170	5.78E-03	8.80E-04	4.76E-04
32	258420.5	4085196	5.67E-03	8.64E-04	4.67E-04
33	258386.1	4085212	6.37E-03	9.70E-04	5.25E-04
34	258463.7	4085092	9.21E-03	1.40E-03	7.59E-04
35	258463	4085068	1.14E-02	1.74E-03	9.40E-04
36	258462.3	4085043	1.37E-02	2.09E-03	1.13E-03
37	258461.5	4085018	1.59E-02	2.43E-03	1.31E-03
38	258460.8	4084993	1.77E-02	2.69E-03	1.46E-03
39	258460.1	4084969	1.88E-02	2.87E-03	1.55E-03

40	258459.4	4084944	1.93E-02	2.94E-03	1.59E-03
41	258458.6	4084919	1.91E-02	2.91E-03	1.57E-03
42	258506.4	4085137	4.84E-03	7.37E-04	3.99E-04
43	258498.4	4085158	4.47E-03	6.81E-04	3.68E-04
44	258490.4	4085180	4.13E-03	6.29E-04	3.41E-04
45	258482.4	4085201	3.83E-03	5.84E-04	3.16E-04
46	258453.7	4085232	3.77E-03	5.75E-04	3.11E-04
47	258433.1	4085241	3.99E-03	6.09E-04	3.29E-04
48	258412.4	4085251	4.22E-03	6.43E-04	3.48E-04
49	258391.8	4085260	4.45E-03	6.77E-04	3.66E-04
50	258514.4	4085116	5.23E-03	7.96E-04	4.31E-04
51	258513.7	4085091	6.12E-03	9.32E-04	5.05E-04
52	258513	4085066	7.19E-03	1.10E-03	5.93E-04
53	258512.2	4085041	8.40E-03	1.28E-03	6.92E-04
54	258511.5	4085017	9.64E-03	1.47E-03	7.95E-04
55	258510.8	4084992	1.08E-02	1.64E-03	8.90E-04
56	258510.1	4084967	1.18E-02	1.79E-03	9.69E-04
57	258509.3	4084942	1.24E-02	1.90E-03	1.03E-03
58	258508.6	4084918	1.28E-02	1.95E-03	1.05E-03
59	258556.8	4085135	3.71E-03	5.65E-04	3.05E-04
60	258541.5	4085175	3.28E-03	5.00E-04	2.70E-04
61	258526.2	4085216	2.90E-03	4.42E-04	2.39E-04
62	258491.3	4085265	2.71E-03	4.12E-04	2.23E-04
63	258452	4085284	2.96E-03	4.52E-04	2.44E-04
64	258412.6	4085302	3.23E-03	4.92E-04	2.66E-04
65	258563.7	4085090	4.45E-03	6.79E-04	3.67E-04
66	258562.9	4085065	5.07E-03	7.72E-04	4.18E-04
67	258562.2	4085040	5.76E-03	8.78E-04	4.75E-04
68	258561.5	4085015	6.50E-03	9.91E-04	5.36E-04
69	258560.8	4084990	7.25E-03	1.10E-03	5.97E-04
70	258560	4084966	7.94E-03	1.21E-03	6.55E-04
71	258559.3	4084941	8.54E-03	1.30E-03	7.04E-04
72	258558.6	4084916	8.97E-03	1.37E-03	7.40E-04
73	258606	4085135	2.93E-03	4.46E-04	2.41E-04
74	258597.7	4085157	2.77E-03	4.22E-04	2.28E-04
75	258589.3	4085179	2.62E-03	3.99E-04	2.16E-04
76	258581	4085202	2.47E-03	3.76E-04	2.04E-04
77	258572.6	4085224	2.33E-03	3.55E-04	1.92E-04
78	258564.3	4085246	2.20E-03	3.36E-04	1.82E-04
79	258556	4085268	2.08E-03	3.18E-04	1.72E-04
80	258526.1	4085300	2.06E-03	3.14E-04	1.70E-04
81	258504.6	4085310	2.15E-03	3.28E-04	1.78E-04
82	258483.1	4085320	2.25E-03	3.43E-04	1.86E-04
83	258461.6	4085330	2.35E-03	3.58E-04	1.94E-04
84	258440.1	4085340	2.44E-03	3.72E-04	2.02E-04
85	258418.5	4085350	2.54E-03	3.87E-04	2.09E-04
86	258397	4085360	2.64E-03	4.02E-04	2.17E-04

87	258614.4	4085113	3.08E-03	4.69E-04	2.54E-04
88	258613.6	4085088	3.42E-03	5.21E-04	2.82E-04
89	258612.9	4085063	3.81E-03	5.80E-04	3.14E-04
90	258612.2	4085039	4.24E-03	6.46E-04	3.50E-04
91	258611.5	4085014	4.71E-03	7.18E-04	3.89E-04
92	258610.7	4084989	5.20E-03	7.93E-04	4.29E-04
93	258610	4084964	5.69E-03	8.67E-04	4.69E-04
94	258609.3	4084940	6.15E-03	9.37E-04	5.07E-04
95	258608.6	4084915	6.54E-03	9.97E-04	5.39E-04
96	258656.3	4085133	2.39E-03	3.64E-04	1.97E-04
97	258648.3	4085154	2.29E-03	3.49E-04	1.89E-04
98	258640.3	4085175	2.19E-03	3.33E-04	1.80E-04
99	258632.3	4085197	2.08E-03	3.18E-04	1.72E-04
100	258624.3	4085218	1.99E-03	3.02E-04	1.64E-04
101	258616.3	4085239	1.89E-03	2.88E-04	1.56E-04
102	258608.3	4085260	1.80E-03	2.74E-04	1.49E-04
103	258600.3	4085282	1.72E-03	2.62E-04	1.42E-04
104	258592.3	4085303	1.64E-03	2.50E-04	1.35E-04
105	258563.6	4085334	1.63E-03	2.48E-04	1.34E-04
106	258542.9	4085343	1.69E-03	2.57E-04	1.39E-04
107	258522.3	4085353	1.75E-03	2.67E-04	1.44E-04
108	258501.6	4085363	1.82E-03	2.77E-04	1.50E-04
109	258481	4085372	1.89E-03	2.88E-04	1.56E-04
110	258460.3	4085382	1.95E-03	2.97E-04	1.61E-04
111	258439.7	4085391	2.01E-03	3.07E-04	1.66E-04
112	258419	4085401	2.08E-03	3.17E-04	1.71E-04
113	258398.4	4085410	2.15E-03	3.27E-04	1.77E-04
114	258664.3	4085111	2.49E-03	3.80E-04	2.05E-04
115	258663.6	4085087	2.72E-03	4.15E-04	2.25E-04
116	258662.9	4085062	2.99E-03	4.55E-04	2.46E-04
117	258662.2	4085037	3.28E-03	4.99E-04	2.70E-04
118	258661.4	4085012	3.59E-03	5.47E-04	2.96E-04
119	258660.7	4084988	3.93E-03	5.99E-04	3.24E-04
120	258660	4084963	4.27E-03	6.51E-04	3.52E-04
121	258659.3	4084938	4.62E-03	7.03E-04	3.81E-04
122	258658.6	4084913	4.93E-03	7.52E-04	4.07E-04
123	258756.1	4085130	1.69E-03	2.57E-04	1.39E-04
124	258747.9	4085152	1.63E-03	2.49E-04	1.35E-04
125	258739.6	4085174	1.58E-03	2.40E-04	1.30E-04
126	258731.4	4085196	1.52E-03	2.32E-04	1.25E-04
127	258723.2	4085218	1.46E-03	2.23E-04	1.21E-04
128	258715	4085239	1.41E-03	2.14E-04	1.16E-04
129	258706.8	4085261	1.35E-03	2.06E-04	1.11E-04
130	258698.6	4085283	1.30E-03	1.98E-04	1.07E-04
131	258690.4	4085305	1.25E-03	1.90E-04	1.03E-04
132	258682.1	4085327	1.20E-03	1.82E-04	9.86E-05
133	258673.9	4085349	1.15E-03	1.76E-04	9.51E-05

134	258665.7	4085371	1.11E-03	1.69E-04	9.16E-05
135	258636.3	4085402	1.11E-03	1.68E-04	9.11E-05
136	258615.1	4085412	1.14E-03	1.73E-04	9.38E-05
137	258594	4085422	1.17E-03	1.79E-04	9.67E-05
138	258572.8	4085432	1.21E-03	1.85E-04	9.99E-05
139	258551.6	4085441	1.25E-03	1.91E-04	1.03E-04
140	258530.4	4085451	1.29E-03	1.97E-04	1.07E-04
141	258509.2	4085461	1.33E-03	2.03E-04	1.10E-04
142	258488.1	4085471	1.37E-03	2.08E-04	1.13E-04
143	258466.9	4085481	1.40E-03	2.14E-04	1.16E-04
144	258445.7	4085490	1.44E-03	2.19E-04	1.19E-04
145	258424.5	4085500	1.48E-03	2.25E-04	1.22E-04
146	258403.3	4085510	1.52E-03	2.31E-04	1.25E-04
147	258764.3	4085108	1.74E-03	2.66E-04	1.44E-04
148	258763.6	4085084	1.87E-03	2.84E-04	1.54E-04
149	258762.8	4085059	2.00E-03	3.05E-04	1.65E-04
150	258762.1	4085034	2.15E-03	3.28E-04	1.78E-04
151	258761.4	4085009	2.32E-03	3.53E-04	1.91E-04
152	258760.7	4084985	2.49E-03	3.79E-04	2.05E-04
153	258760	4084960	2.68E-03	4.08E-04	2.21E-04
154	258759.2	4084935	2.87E-03	4.37E-04	2.37E-04
155	258758.5	4084910	3.06E-03	4.67E-04	2.53E-04
156	258855.9	4085128	1.27E-03	1.94E-04	1.05E-04
157	258847.6	4085150	1.24E-03	1.89E-04	1.02E-04
158	258839.2	4085172	1.20E-03	1.83E-04	9.92E-05
159	258830.9	4085194	1.17E-03	1.78E-04	9.62E-05
160	258822.5	4085216	1.13E-03	1.72E-04	9.32E-05
161	258814.2	4085239	1.09E-03	1.67E-04	9.02E-05
162	258805.8	4085261	1.06E-03	1.61E-04	8.73E-05
163	258797.5	4085283	1.03E-03	1.56E-04	8.45E-05
164	258789.2	4085305	9.91E-04	1.51E-04	8.17E-05
165	258780.8	4085327	9.53E-04	1.45E-04	7.86E-05
166	258772.5	4085350	9.21E-04	1.40E-04	7.59E-05
167	258764.1	4085372	8.91E-04	1.36E-04	7.35E-05
168	258755.8	4085394	8.63E-04	1.31E-04	7.12E-05
169	258747.4	4085416	8.37E-04	1.27E-04	6.90E-05
170	258739.1	4085438	8.12E-04	1.24E-04	6.69E-05
171	258709.2	4085470	8.07E-04	1.23E-04	6.65E-05
172	258687.7	4085480	8.25E-04	1.26E-04	6.80E-05
173	258666.2	4085490	8.46E-04	1.29E-04	6.97E-05
174	258644.7	4085500	8.68E-04	1.32E-04	7.16E-05
175	258623.2	4085510	8.94E-04	1.36E-04	7.37E-05
176	258601.7	4085520	9.22E-04	1.40E-04	7.60E-05
177	258580.2	4085530	9.50E-04	1.45E-04	7.83E-05
178	258558.7	4085540	9.79E-04	1.49E-04	8.07E-05
179	258537.2	4085550	1.01E-03	1.53E-04	8.29E-05
180	258515.7	4085560	1.03E-03	1.57E-04	8.47E-05

181	258494.1	4085570	1.05E-03	1.60E-04	8.65E-05
182	258472.6	4085580	1.07E-03	1.63E-04	8.83E-05
183	258451.1	4085590	1.10E-03	1.67E-04	9.03E-05
184	258429.6	4085600	1.12E-03	1.71E-04	9.25E-05
185	258408.1	4085610	1.15E-03	1.75E-04	9.48E-05
186	258864.3	4085106	1.30E-03	1.99E-04	1.07E-04
187	258863.5	4085081	1.38E-03	2.10E-04	1.13E-04
188	258862.8	4085056	1.46E-03	2.22E-04	1.20E-04
189	258862.1	4085031	1.54E-03	2.35E-04	1.27E-04
190	258861.4	4085007	1.64E-03	2.50E-04	1.35E-04
191	258860.6	4084982	1.74E-03	2.65E-04	1.43E-04
192	258859.9	4084957	1.85E-03	2.82E-04	1.53E-04
193	258859.2	4084932	1.97E-03	3.00E-04	1.62E-04
194	258858.5	4084907	2.09E-03	3.18E-04	1.72E-04
195	258955.8	4085125	1.00E-03	1.53E-04	8.26E-05
196	258947.3	4085147	9.81E-04	1.49E-04	8.08E-05
197	258938.9	4085170	9.58E-04	1.46E-04	7.89E-05
198	258930.5	4085192	9.33E-04	1.42E-04	7.69E-05
199	258922.1	4085215	9.08E-04	1.38E-04	7.49E-05
200	258913.6	4085237	8.83E-04	1.34E-04	7.28E-05
201	258905.2	4085260	8.58E-04	1.31E-04	7.07E-05
202	258896.8	4085282	8.32E-04	1.27E-04	6.85E-05
203	258888.3	4085304	8.06E-04	1.23E-04	6.64E-05
204	258879.9	4085327	7.84E-04	1.19E-04	6.46E-05
205	258871.5	4085349	7.63E-04	1.16E-04	6.29E-05
206	258863	4085372	7.42E-04	1.13E-04	6.11E-05
207	258854.6	4085394	7.21E-04	1.10E-04	5.94E-05
208	258846.2	4085416	7.01E-04	1.07E-04	5.78E-05
209	258837.7	4085439	6.82E-04	1.04E-04	5.62E-05
210	258829.3	4085461	6.63E-04	1.01E-04	5.47E-05
211	258820.9	4085484	6.46E-04	9.84E-05	5.33E-05
212	258812.4	4085506	6.30E-04	9.60E-05	5.19E-05
213	258782.3	4085539	6.27E-04	9.54E-05	5.16E-05
214	258760.5	4085549	6.39E-04	9.73E-05	5.26E-05
215	258738.8	4085559	6.51E-04	9.92E-05	5.37E-05
216	258717.1	4085569	6.65E-04	1.01E-04	5.49E-05
217	258695.3	4085579	6.81E-04	1.04E-04	5.62E-05
218	258673.6	4085589	6.99E-04	1.06E-04	5.76E-05
219	258651.9	4085599	7.18E-04	1.09E-04	5.92E-05
220	258630.1	4085609	7.38E-04	1.12E-04	6.08E-05
221	258608.4	4085619	7.57E-04	1.15E-04	6.24E-05
222	258586.6	4085629	7.75E-04	1.18E-04	6.39E-05
223	258564.9	4085639	7.93E-04	1.21E-04	6.53E-05
224	258543.2	4085649	8.08E-04	1.23E-04	6.66E-05
225	258521.4	4085659	8.20E-04	1.25E-04	6.76E-05
226	258499.7	4085669	8.38E-04	1.28E-04	6.91E-05
227	258478	4085679	8.54E-04	1.30E-04	7.04E-05

228	258456.2	4085689	8.70E-04	1.33E-04	7.17E-05
229	258434.5	4085699	8.90E-04	1.36E-04	7.34E-05
230	258412.8	4085709	9.10E-04	1.39E-04	7.50E-05
231	258964.2	4085103	1.02E-03	1.56E-04	8.42E-05
232	258963.5	4085078	1.07E-03	1.63E-04	8.80E-05
233	258962.8	4085053	1.12E-03	1.70E-04	9.22E-05
234	258962	4085028	1.17E-03	1.79E-04	9.68E-05
235	258961.3	4085004	1.23E-03	1.88E-04	1.02E-04
236	258960.6	4084979	1.30E-03	1.98E-04	1.07E-04
237	258959.9	4084954	1.37E-03	2.09E-04	1.13E-04
238	258959.2	4084929	1.45E-03	2.20E-04	1.19E-04
239	258958.4	4084905	1.53E-03	2.32E-04	1.26E-04
240	259055.7	4085122	8.17E-04	1.24E-04	6.73E-05
241	259047.2	4085145	8.03E-04	1.22E-04	6.62E-05
242	259038.7	4085167	7.88E-04	1.20E-04	6.49E-05
243	259030.2	4085190	7.69E-04	1.17E-04	6.34E-05
244	259021.7	4085213	7.49E-04	1.14E-04	6.17E-05
245	259013.2	4085235	7.29E-04	1.11E-04	6.01E-05
246	259004.7	4085258	7.10E-04	1.08E-04	5.85E-05
247	258996.2	4085280	6.92E-04	1.05E-04	5.70E-05
248	258987.7	4085303	6.75E-04	1.03E-04	5.56E-05
249	258979.2	4085326	6.59E-04	1.00E-04	5.43E-05
250	258970.7	4085348	6.43E-04	9.80E-05	5.30E-05
251	258962.2	4085371	6.29E-04	9.58E-05	5.18E-05
252	258953.7	4085393	6.14E-04	9.36E-05	5.06E-05
253	258945.2	4085416	6.00E-04	9.14E-05	4.94E-05
254	258936.7	4085438	5.86E-04	8.92E-05	4.83E-05
255	258928.2	4085461	5.72E-04	8.71E-05	4.71E-05
256	258919.8	4085484	5.58E-04	8.50E-05	4.60E-05
257	258911.3	4085506	5.44E-04	8.29E-05	4.49E-05
258	258902.8	4085529	5.32E-04	8.10E-05	4.38E-05
259	258894.3	4085551	5.20E-04	7.92E-05	4.28E-05
260	258885.8	4085574	5.09E-04	7.75E-05	4.19E-05
261	258855.4	4085607	5.06E-04	7.71E-05	4.17E-05
262	258833.5	4085617	5.14E-04	7.84E-05	4.24E-05
263	258811.6	4085627	5.23E-04	7.97E-05	4.31E-05
264	258789.7	4085637	5.33E-04	8.12E-05	4.39E-05
265	258767.8	4085647	5.43E-04	8.27E-05	4.48E-05
266	258745.9	4085657	5.55E-04	8.45E-05	4.57E-05
267	258724	4085667	5.68E-04	8.65E-05	4.68E-05
268	258702.1	4085678	5.82E-04	8.87E-05	4.80E-05
269	258680.2	4085688	5.97E-04	9.10E-05	4.92E-05
270	258658.3	4085698	6.12E-04	9.33E-05	5.05E-05
271	258636.4	4085708	6.27E-04	9.55E-05	5.17E-05
272	258614.5	4085718	6.40E-04	9.74E-05	5.27E-05
273	258592.6	4085728	6.51E-04	9.92E-05	5.37E-05
274	258570.7	4085738	6.62E-04	1.01E-04	5.46E-05

275	258548.8	4085749	6.73E-04	1.02E-04	5.55E-05
276	258526.8	4085759	6.84E-04	1.04E-04	5.64E-05
277	258504.9	4085769	6.96E-04	1.06E-04	5.74E-05
278	258483	4085779	7.10E-04	1.08E-04	5.85E-05
279	258461.1	4085789	7.25E-04	1.10E-04	5.97E-05
280	258439.2	4085799	7.40E-04	1.13E-04	6.10E-05
281	258417.3	4085809	7.56E-04	1.15E-04	6.23E-05
282	259064.2	4085100	8.29E-04	1.26E-04	6.84E-05
283	259063.4	4085075	8.60E-04	1.31E-04	7.09E-05
284	259062.7	4085050	8.94E-04	1.36E-04	7.37E-05
285	259062	4085025	9.32E-04	1.42E-04	7.68E-05
286	259061.3	4085001	9.73E-04	1.48E-04	8.02E-05
287	259060.6	4084976	1.02E-03	1.55E-04	8.40E-05
288	259059.8	4084951	1.07E-03	1.63E-04	8.80E-05
289	259059.1	4084926	1.12E-03	1.70E-04	9.22E-05
290	259058.4	4084902	1.17E-03	1.79E-04	9.67E-05
291	259255.5	4085117	5.85E-04	8.91E-05	4.82E-05
292	259246.9	4085139	5.79E-04	8.82E-05	4.77E-05
293	259238.3	4085162	5.72E-04	8.72E-05	4.72E-05
294	259229.8	4085185	5.63E-04	8.58E-05	4.64E-05
295	259221.2	4085208	5.52E-04	8.40E-05	4.55E-05
296	259212.6	4085231	5.40E-04	8.23E-05	4.45E-05
297	259204	4085254	5.28E-04	8.05E-05	4.35E-05
298	259195.4	4085276	5.16E-04	7.86E-05	4.25E-05
299	259186.8	4085299	5.04E-04	7.68E-05	4.16E-05
300	259178.3	4085322	4.93E-04	7.51E-05	4.06E-05
301	259169.7	4085345	4.82E-04	7.35E-05	3.98E-05
302	259161.1	4085368	4.73E-04	7.20E-05	3.90E-05
303	259152.5	4085390	4.64E-04	7.07E-05	3.82E-05
304	259143.9	4085413	4.56E-04	6.94E-05	3.76E-05
305	259135.4	4085436	4.48E-04	6.83E-05	3.69E-05
306	259126.8	4085459	4.41E-04	6.71E-05	3.63E-05
307	259118.2	4085482	4.33E-04	6.60E-05	3.57E-05
308	259109.6	4085505	4.26E-04	6.49E-05	3.51E-05
309	259101	4085527	4.19E-04	6.38E-05	3.45E-05
310	259092.4	4085550	4.11E-04	6.26E-05	3.39E-05
311	259083.9	4085573	4.04E-04	6.15E-05	3.33E-05
312	259075.3	4085596	3.96E-04	6.03E-05	3.26E-05
313	259066.7	4085619	3.88E-04	5.91E-05	3.20E-05
314	259058.1	4085641	3.81E-04	5.80E-05	3.14E-05
315	259049.5	4085664	3.74E-04	5.69E-05	3.08E-05
316	259041	4085687	3.67E-04	5.59E-05	3.03E-05
317	259032.4	4085710	3.61E-04	5.50E-05	2.98E-05
318	259001.7	4085743	3.60E-04	5.48E-05	2.97E-05
319	258979.5	4085753	3.64E-04	5.55E-05	3.00E-05
320	258957.4	4085763	3.69E-04	5.63E-05	3.04E-05
321	258935.3	4085774	3.74E-04	5.70E-05	3.09E-05

322	258913.2	4085784	3.80E-04	5.79E-05	3.13E-05
323	258891	4085794	3.86E-04	5.88E-05	3.18E-05
324	258868.9	4085804	3.92E-04	5.98E-05	3.23E-05
325	258846.8	4085815	3.99E-04	6.08E-05	3.29E-05
326	258824.7	4085825	4.08E-04	6.21E-05	3.36E-05
327	258802.5	4085835	4.16E-04	6.34E-05	3.43E-05
328	258780.4	4085845	4.26E-04	6.49E-05	3.51E-05
329	258758.3	4085856	4.37E-04	6.65E-05	3.60E-05
330	258736.2	4085866	4.47E-04	6.81E-05	3.68E-05
331	258714	4085876	4.57E-04	6.96E-05	3.76E-05
332	258691.9	4085886	4.66E-04	7.10E-05	3.84E-05
333	258669.8	4085896	4.74E-04	7.22E-05	3.91E-05
334	258647.7	4085907	4.81E-04	7.33E-05	3.97E-05
335	258625.5	4085917	4.88E-04	7.43E-05	4.02E-05
336	258603.4	4085927	4.95E-04	7.54E-05	4.08E-05
337	258581.3	4085937	5.01E-04	7.64E-05	4.13E-05
338	258559.2	4085948	5.09E-04	7.75E-05	4.19E-05
339	258537	4085958	5.16E-04	7.87E-05	4.26E-05
340	258514.9	4085968	5.24E-04	7.99E-05	4.32E-05
341	258492.8	4085978	5.33E-04	8.12E-05	4.39E-05
342	258470.7	4085989	5.41E-04	8.25E-05	4.46E-05
343	258448.5	4085999	5.50E-04	8.38E-05	4.54E-05
344	258426.4	4086009	5.59E-04	8.52E-05	4.61E-05
345	259264.1	4085094	5.90E-04	8.99E-05	4.86E-05
346	259263.4	4085069	6.05E-04	9.22E-05	4.99E-05
347	259262.6	4085044	6.23E-04	9.49E-05	5.13E-05
348	259261.9	4085020	6.43E-04	9.79E-05	5.30E-05
349	259261.2	4084995	6.66E-04	1.01E-04	5.49E-05
350	259260.5	4084970	6.91E-04	1.05E-04	5.70E-05
351	259259.7	4084945	7.19E-04	1.09E-04	5.92E-05
352	259259	4084921	7.47E-04	1.14E-04	6.16E-05
353	259258.3	4084896	7.76E-04	1.18E-04	6.40E-05
354	259455.4	4085111	4.49E-04	6.84E-05	3.70E-05
355	259446.7	4085134	4.47E-04	6.81E-05	3.68E-05
356	259438.1	4085157	4.44E-04	6.76E-05	3.66E-05
357	259429.4	4085180	4.40E-04	6.71E-05	3.63E-05
358	259420.8	4085203	4.35E-04	6.63E-05	3.59E-05
359	259412.2	4085226	4.29E-04	6.53E-05	3.53E-05
360	259403.5	4085249	4.21E-04	6.42E-05	3.47E-05
361	259394.9	4085272	4.13E-04	6.29E-05	3.41E-05
362	259386.3	4085295	4.04E-04	6.16E-05	3.33E-05
363	259377.6	4085318	3.95E-04	6.02E-05	3.26E-05
364	259369	4085341	3.86E-04	5.88E-05	3.18E-05
365	259360.3	4085364	3.78E-04	5.76E-05	3.11E-05
366	259351.7	4085387	3.71E-04	5.65E-05	3.05E-05
367	259343.1	4085410	3.64E-04	5.54E-05	3.00E-05
368	259334.4	4085433	3.58E-04	5.45E-05	2.95E-05

369	259325.8	4085455	3.53E-04	5.38E-05	2.91E-05
370	259317.2	4085478	3.48E-04	5.30E-05	2.87E-05
371	259308.5	4085501	3.43E-04	5.23E-05	2.83E-05
372	259299.9	4085524	3.39E-04	5.17E-05	2.80E-05
373	259291.2	4085547	3.35E-04	5.10E-05	2.76E-05
374	259282.6	4085570	3.31E-04	5.04E-05	2.73E-05
375	259274	4085593	3.27E-04	4.98E-05	2.69E-05
376	259265.3	4085616	3.23E-04	4.92E-05	2.66E-05
377	259256.7	4085639	3.18E-04	4.85E-05	2.62E-05
378	259248.1	4085662	3.14E-04	4.78E-05	2.59E-05
379	259239.4	4085685	3.09E-04	4.71E-05	2.55E-05
380	259230.8	4085708	3.04E-04	4.63E-05	2.51E-05
381	259222.1	4085731	2.99E-04	4.56E-05	2.46E-05
382	259213.5	4085754	2.94E-04	4.48E-05	2.42E-05
383	259204.9	4085777	2.89E-04	4.41E-05	2.38E-05
384	259196.2	4085800	2.85E-04	4.34E-05	2.35E-05
385	259187.6	4085823	2.81E-04	4.28E-05	2.31E-05
386	259179	4085846	2.77E-04	4.22E-05	2.28E-05
387	259148	4085879	2.77E-04	4.21E-05	2.28E-05
388	259125.8	4085889	2.80E-04	4.26E-05	2.31E-05
389	259103.5	4085900	2.83E-04	4.31E-05	2.33E-05
390	259081.2	4085910	2.87E-04	4.37E-05	2.36E-05
391	259059	4085920	2.90E-04	4.42E-05	2.39E-05
392	259036.7	4085931	2.94E-04	4.48E-05	2.42E-05
393	259014.4	4085941	2.98E-04	4.54E-05	2.45E-05
394	258992.2	4085951	3.02E-04	4.60E-05	2.49E-05
395	258969.9	4085962	3.06E-04	4.66E-05	2.52E-05
396	258947.6	4085972	3.10E-04	4.73E-05	2.56E-05
397	258925.3	4085982	3.16E-04	4.81E-05	2.60E-05
398	258903.1	4085992	3.22E-04	4.91E-05	2.65E-05
399	258880.8	4086003	3.29E-04	5.01E-05	2.71E-05
400	258858.5	4086013	3.37E-04	5.13E-05	2.78E-05
401	258836.3	4086023	3.45E-04	5.25E-05	2.84E-05
402	258814	4086034	3.53E-04	5.37E-05	2.91E-05
403	258791.7	4086044	3.60E-04	5.49E-05	2.97E-05
404	258769.5	4086054	3.67E-04	5.59E-05	3.03E-05
405	258747.2	4086065	3.73E-04	5.69E-05	3.08E-05
406	258724.9	4086075	3.79E-04	5.77E-05	3.12E-05
407	258702.6	4086085	3.83E-04	5.84E-05	3.16E-05
408	258680.4	4086095	3.87E-04	5.90E-05	3.19E-05
409	258658.1	4086106	3.91E-04	5.96E-05	3.22E-05
410	258635.8	4086116	3.95E-04	6.01E-05	3.25E-05
411	258613.6	4086126	3.99E-04	6.07E-05	3.29E-05
412	258591.3	4086137	4.03E-04	6.13E-05	3.32E-05
413	258569	4086147	4.07E-04	6.20E-05	3.36E-05
414	258546.8	4086157	4.12E-04	6.27E-05	3.39E-05
415	258524.5	4086168	4.17E-04	6.35E-05	3.44E-05

416	258502.2	4086178	4.22E-04	6.44E-05	3.48E-05
417	258479.9	4086188	4.29E-04	6.53E-05	3.53E-05
418	258457.7	4086198	4.34E-04	6.62E-05	3.58E-05
419	258435.4	4086209	4.41E-04	6.73E-05	3.64E-05
420	259464	4085088	4.51E-04	6.87E-05	3.72E-05
421	259463.3	4085063	4.60E-04	7.00E-05	3.79E-05
422	259462.6	4085039	4.71E-04	7.17E-05	3.88E-05
423	259461.8	4085014	4.83E-04	7.36E-05	3.98E-05
424	259461.1	4084989	4.98E-04	7.59E-05	4.11E-05
425	259460.4	4084964	5.15E-04	7.84E-05	4.24E-05
426	259459.7	4084939	5.33E-04	8.12E-05	4.39E-05
427	259458.9	4084915	5.51E-04	8.40E-05	4.55E-05
428	259458.2	4084890	5.70E-04	8.68E-05	4.70E-05
429	259655.2	4085105	3.62E-04	5.52E-05	2.99E-05
430	259646.6	4085128	3.62E-04	5.51E-05	2.98E-05
431	259637.9	4085151	3.61E-04	5.50E-05	2.98E-05
432	259629.2	4085174	3.59E-04	5.47E-05	2.96E-05
433	259620.5	4085198	3.57E-04	5.44E-05	2.94E-05
434	259611.8	4085221	3.54E-04	5.39E-05	2.91E-05
435	259603.2	4085244	3.49E-04	5.32E-05	2.88E-05
436	259594.5	4085267	3.44E-04	5.24E-05	2.84E-05
437	259585.8	4085290	3.38E-04	5.15E-05	2.79E-05
438	259577.1	4085313	3.32E-04	5.05E-05	2.73E-05
439	259568.5	4085336	3.25E-04	4.95E-05	2.68E-05
440	259559.8	4085359	3.18E-04	4.85E-05	2.62E-05
441	259551.1	4085382	3.12E-04	4.75E-05	2.57E-05
442	259542.4	4085405	3.06E-04	4.66E-05	2.52E-05
443	259533.8	4085428	3.00E-04	4.58E-05	2.48E-05
444	259525.1	4085451	2.95E-04	4.50E-05	2.43E-05
445	259516.4	4085474	2.90E-04	4.42E-05	2.39E-05
446	259507.7	4085497	2.86E-04	4.36E-05	2.36E-05
447	259499	4085521	2.83E-04	4.31E-05	2.33E-05
448	259490.4	4085544	2.80E-04	4.26E-05	2.31E-05
449	259481.7	4085567	2.77E-04	4.22E-05	2.28E-05
450	259473	4085590	2.74E-04	4.18E-05	2.26E-05
451	259464.3	4085613	2.72E-04	4.14E-05	2.24E-05
452	259455.7	4085636	2.69E-04	4.10E-05	2.22E-05
453	259447	4085659	2.67E-04	4.07E-05	2.20E-05
454	259438.3	4085682	2.65E-04	4.03E-05	2.18E-05
455	259429.6	4085705	2.62E-04	3.99E-05	2.16E-05
456	259421	4085728	2.59E-04	3.95E-05	2.14E-05
457	259412.3	4085751	2.57E-04	3.91E-05	2.11E-05
458	259403.6	4085774	2.53E-04	3.86E-05	2.09E-05
459	259394.9	4085797	2.50E-04	3.81E-05	2.06E-05
460	259386.2	4085820	2.47E-04	3.76E-05	2.03E-05
461	259377.6	4085843	2.43E-04	3.70E-05	2.00E-05
462	259368.9	4085867	2.39E-04	3.64E-05	1.97E-05

463	259360.2	4085890	2.36E-04	3.59E-05	1.94E-05
464	259351.5	4085913	2.32E-04	3.54E-05	1.92E-05
465	259342.9	4085936	2.29E-04	3.49E-05	1.89E-05
466	259334.2	4085959	2.27E-04	3.45E-05	1.87E-05
467	259325.5	4085982	2.25E-04	3.42E-05	1.85E-05
468	259294.5	4086015	2.25E-04	3.42E-05	1.85E-05
469	259272.1	4086026	2.27E-04	3.46E-05	1.87E-05
470	259249.7	4086036	2.30E-04	3.50E-05	1.89E-05
471	259227.3	4086046	2.32E-04	3.54E-05	1.91E-05
472	259205	4086057	2.34E-04	3.57E-05	1.93E-05
473	259182.6	4086067	2.37E-04	3.61E-05	1.95E-05
474	259160.2	4086077	2.39E-04	3.64E-05	1.97E-05
475	259137.9	4086088	2.42E-04	3.69E-05	1.99E-05
476	259115.5	4086098	2.45E-04	3.73E-05	2.02E-05
477	259093.1	4086108	2.48E-04	3.78E-05	2.04E-05
478	259070.7	4086119	2.51E-04	3.83E-05	2.07E-05
479	259048.4	4086129	2.55E-04	3.89E-05	2.10E-05
480	259026	4086139	2.60E-04	3.96E-05	2.14E-05
481	259003.6	4086150	2.65E-04	4.03E-05	2.18E-05
482	258981.3	4086160	2.70E-04	4.11E-05	2.23E-05
483	258958.9	4086171	2.76E-04	4.21E-05	2.28E-05
484	258936.5	4086181	2.82E-04	4.30E-05	2.33E-05
485	258914.2	4086191	2.89E-04	4.40E-05	2.38E-05
486	258891.8	4086202	2.95E-04	4.50E-05	2.43E-05
487	258869.4	4086212	3.01E-04	4.59E-05	2.48E-05
488	258847	4086222	3.07E-04	4.67E-05	2.53E-05
489	258824.7	4086233	3.11E-04	4.74E-05	2.57E-05
490	258802.3	4086243	3.15E-04	4.80E-05	2.60E-05
491	258779.9	4086253	3.18E-04	4.84E-05	2.62E-05
492	258757.6	4086264	3.20E-04	4.88E-05	2.64E-05
493	258735.2	4086274	3.23E-04	4.91E-05	2.66E-05
494	258712.8	4086284	3.25E-04	4.94E-05	2.68E-05
495	258690.4	4086295	3.26E-04	4.97E-05	2.69E-05
496	258668.1	4086305	3.29E-04	5.01E-05	2.71E-05
497	258645.7	4086315	3.31E-04	5.04E-05	2.73E-05
498	258623.3	4086326	3.34E-04	5.09E-05	2.75E-05
499	258601	4086336	3.37E-04	5.13E-05	2.78E-05
500	258578.6	4086346	3.41E-04	5.19E-05	2.81E-05
501	258556.2	4086357	3.44E-04	5.24E-05	2.84E-05
502	258533.8	4086367	3.48E-04	5.31E-05	2.87E-05
503	258511.5	4086377	3.52E-04	5.37E-05	2.90E-05
504	258489.1	4086388	3.57E-04	5.43E-05	2.94E-05
505	258466.7	4086398	3.61E-04	5.50E-05	2.98E-05
506	258444.4	4086408	3.65E-04	5.57E-05	3.01E-05
507	259663.9	4085082	3.63E-04	5.54E-05	3.00E-05
508	259663.2	4085057	3.69E-04	5.62E-05	3.04E-05
509	259662.5	4085033	3.76E-04	5.73E-05	3.10E-05

510	259661.7	4085008	3.84E-04	5.85E-05	3.17E-05
511	259661	4084983	3.94E-04	6.00E-05	3.25E-05
512	259660.3	4084958	4.06E-04	6.18E-05	3.34E-05
513	259659.6	4084934	4.19E-04	6.38E-05	3.45E-05
514	259658.9	4084909	4.32E-04	6.58E-05	3.56E-05
515	259658.1	4084884	4.45E-04	6.78E-05	3.67E-05
516	259855.1	4085100	3.03E-04	4.62E-05	2.50E-05
517	259846.4	4085123	3.03E-04	4.61E-05	2.50E-05
518	259837.7	4085146	3.03E-04	4.61E-05	2.50E-05
519	259829	4085169	3.02E-04	4.61E-05	2.49E-05
520	259820.3	4085192	3.02E-04	4.60E-05	2.49E-05
521	259811.6	4085215	3.01E-04	4.58E-05	2.48E-05
522	259802.9	4085238	2.98E-04	4.54E-05	2.46E-05
523	259794.2	4085262	2.95E-04	4.50E-05	2.43E-05
524	259785.5	4085285	2.91E-04	4.44E-05	2.40E-05
525	259776.8	4085308	2.87E-04	4.37E-05	2.36E-05
526	259768.1	4085331	2.82E-04	4.29E-05	2.32E-05
527	259759.4	4085354	2.77E-04	4.21E-05	2.28E-05
528	259750.6	4085377	2.71E-04	4.14E-05	2.24E-05
529	259741.9	4085400	2.66E-04	4.06E-05	2.20E-05
530	259733.2	4085424	2.62E-04	3.98E-05	2.16E-05
531	259724.5	4085447	2.57E-04	3.91E-05	2.12E-05
532	259715.8	4085470	2.53E-04	3.85E-05	2.08E-05
533	259707.1	4085493	2.49E-04	3.79E-05	2.05E-05
534	259698.4	4085516	2.45E-04	3.73E-05	2.02E-05
535	259689.7	4085539	2.42E-04	3.68E-05	1.99E-05
536	259681	4085562	2.39E-04	3.64E-05	1.97E-05
537	259672.3	4085586	2.37E-04	3.60E-05	1.95E-05
538	259663.6	4085609	2.34E-04	3.57E-05	1.93E-05
539	259654.9	4085632	2.32E-04	3.54E-05	1.92E-05
540	259646.2	4085655	2.31E-04	3.51E-05	1.90E-05
541	259637.5	4085678	2.29E-04	3.49E-05	1.89E-05
542	259628.8	4085701	2.27E-04	3.47E-05	1.87E-05
543	259620.1	4085724	2.26E-04	3.44E-05	1.86E-05
544	259611.4	4085748	2.24E-04	3.41E-05	1.84E-05
545	259602.6	4085771	2.22E-04	3.39E-05	1.83E-05
546	259593.9	4085794	2.21E-04	3.36E-05	1.82E-05
547	259585.2	4085817	2.19E-04	3.33E-05	1.80E-05
548	259576.5	4085840	2.17E-04	3.31E-05	1.79E-05
549	259567.8	4085863	2.15E-04	3.28E-05	1.77E-05
550	259559.1	4085887	2.13E-04	3.24E-05	1.75E-05
551	259550.4	4085910	2.10E-04	3.20E-05	1.73E-05
552	259541.7	4085933	2.07E-04	3.16E-05	1.71E-05
553	259533	4085956	2.05E-04	3.12E-05	1.69E-05
554	259524.3	4085979	2.02E-04	3.07E-05	1.66E-05
555	259515.6	4086002	1.99E-04	3.03E-05	1.64E-05
556	259506.9	4086025	1.97E-04	3.00E-05	1.62E-05

557	259498.2	4086049	1.94E-04	2.96E-05	1.60E-05
558	259489.5	4086072	1.92E-04	2.93E-05	1.59E-05
559	259480.8	4086095	0.000190566	2.90E-05	1.57E-05
560	259472.1	4086118	0.000188936	2.88E-05	1.56E-05
561	259440.9	4086152	0.000189084	2.88E-05	1.56E-05
562	259418.5	4086162	0.000190862	2.91E-05	1.57E-05
563	259396	4086172	0.000192788	2.94E-05	1.59E-05
564	259373.6	4086183	0.000194715	2.97E-05	1.61E-05
565	259351.1	4086193	0.000196789	3.00E-05	1.62E-05
566	259328.7	4086203	0.000198716	3.03E-05	1.64E-05
567	259306.2	4086214	0.00020079	3.06E-05	1.66E-05
568	259283.8	4086224	0.000202865	3.09E-05	1.67E-05
569	259261.3	4086235	0.000205088	3.12E-05	1.69E-05
570	259238.9	4086245	0.000207459	3.16E-05	1.71E-05
571	259216.4	4086255	0.000209978	3.20E-05	1.73E-05
572	259194	4086266	0.000212645	3.24E-05	1.75E-05
573	259171.6	4086276	0.000215609	3.28E-05	1.78E-05
574	259149.1	4086286	0.000218869	3.33E-05	1.80E-05
575	259126.7	4086297	0.000222425	3.39E-05	1.83E-05
576	259104.2	4086307	0.000226426	3.45E-05	1.87E-05
577	259081.8	4086318	0.000230872	3.52E-05	1.90E-05
578	259059.3	4086328	0.000235614	3.59E-05	1.94E-05
579	259036.9	4086338	0.000240652	3.67E-05	1.98E-05
580	259014.4	4086349	0.000245839	3.75E-05	2.03E-05
581	258992	4086359	0.000251025	3.82E-05	2.07E-05
582	258969.5	4086370	0.000255915	3.90E-05	2.11E-05
583	258947.1	4086380	0.000260509	3.97E-05	2.15E-05
584	258924.6	4086390	0.000264362	4.03E-05	2.18E-05
585	258902.2	4086401	0.000267622	4.08E-05	2.21E-05
586	258879.8	4086411	0.000270289	4.12E-05	2.23E-05
587	258857.3	4086421	0.000272364	4.15E-05	2.25E-05
588	258834.9	4086432	0.000273994	4.17E-05	2.26E-05
589	258812.4	4086442	0.000275476	4.20E-05	2.27E-05
590	258790	4086453	0.000276661	4.21E-05	2.28E-05
591	258767.5	4086463	0.000277995	4.24E-05	2.29E-05
592	258745.1	4086473	0.000279328	4.26E-05	2.30E-05
593	258722.6	4086484	0.00028081	4.28E-05	2.31E-05
594	258700.2	4086494	0.00028244	4.30E-05	2.33E-05
595	258677.7	4086504	0.000284367	4.33E-05	2.34E-05
596	258655.3	4086515	0.000286589	4.37E-05	2.36E-05
597	258632.8	4086525	0.00028896	4.40E-05	2.38E-05
598	258610.4	4086536	0.00029148	4.44E-05	2.40E-05
599	258588	4086546	0.000294295	4.48E-05	2.43E-05
600	258565.5	4086556	0.000297259	4.53E-05	2.45E-05
601	258543.1	4086567	0.000300371	4.58E-05	2.48E-05
602	258520.6	4086577	0.000303483	4.62E-05	2.50E-05
603	258498.2	4086588	0.000306594	4.67E-05	2.53E-05

604	258475.7	4086598	0.000309558	4.72E-05	2.55E-05
605	258453.3	4086608	0.000312374	4.76E-05	2.57E-05
606	259863.8	4085076	0.000303483	4.62E-05	2.50E-05
607	259863.1	4085052	0.000307187	4.68E-05	2.53E-05
608	259862.4	4085027	0.000311929	4.75E-05	2.57E-05
609	259861.7	4085002	0.000318153	4.85E-05	2.62E-05
610	259860.9	4084977	0.00032571	4.96E-05	2.68E-05
611	259860.2	4084953	0.000334305	5.09E-05	2.76E-05
612	259859.5	4084928	0.000343937	5.24E-05	2.84E-05
613	259858.8	4084903	0.000354162	5.40E-05	2.92E-05
614	259858	4084878	0.000364387	5.55E-05	3.00E-05
615	258357.7	4084897	0.03534637	5.38E-03	2.91E-03
616	258333.3	4084898	0.03700042	5.64E-03	3.05E-03
617	258309	4084899	0.037859	5.77E-03	3.12E-03
618	258284.7	4084900	0.03842165	5.85E-03	3.17E-03
619	258260.3	4084901	0.03881998	5.91E-03	3.20E-03
620	258236	4084902	0.03909634	5.96E-03	3.22E-03
621	258211.7	4084903	0.03925875	5.98E-03	3.24E-03
622	258187.3	4084904	0.03934381	5.99E-03	3.24E-03
623	258163	4084905	0.03935226	6.00E-03	3.24E-03
624	258138.7	4084906	0.03932188	5.99E-03	3.24E-03
625	258114.3	4084907	0.03926245	5.98E-03	3.24E-03
626	258090	4084908	0.03916762	5.97E-03	3.23E-03
627	258065.7	4084909	0.0390344	5.95E-03	3.22E-03
628	258041.3	4084910	0.03887347	5.92E-03	3.20E-03
629	258017	4084911	0.03866972	5.89E-03	3.19E-03
630	257992.7	4084912	0.03842966	5.85E-03	3.17E-03
631	257968.3	4084913	0.03813788	5.81E-03	3.14E-03
632	257944	4084914	0.03779083	5.76E-03	3.12E-03
633	257919.7	4084915	0.03737992	5.69E-03	3.08E-03
634	257895.4	4084916	0.03688127	5.62E-03	3.04E-03
635	257871	4084917	0.03628483	5.53E-03	2.99E-03
636	257846.7	4084918	0.03556524	5.42E-03	2.93E-03
637	257822.4	4084919	0.03471466	5.29E-03	2.86E-03
638	257798	4084920	0.03367233	5.13E-03	2.78E-03
639	257773.7	4084921	0.03242121	4.94E-03	2.67E-03
640	257749.4	4084922	0.03091861	4.71E-03	2.55E-03
641	257725	4084923	0.02909861	4.43E-03	2.40E-03
642	257700.7	4084924	0.02688398	4.10E-03	2.22E-03
643	257676.4	4084925	0.0241682	3.68E-03	1.99E-03
644	257652	4084926	0.02083775	3.17E-03	1.72E-03
645	257627.7	4084927	0.01674859	2.55E-03	1.38E-03
646	257603.4	4084928	0.01197541	1.82E-03	9.87E-04
647	257579	4084929	0.007485704	1.14E-03	6.17E-04
648	257554.7	4084930	0.005060956	7.71E-04	4.17E-04
649	258374.7	4084879	0.02624531	4.00E-03	2.16E-03
650	258332.3	4084873	0.02571881	3.92E-03	2.12E-03

651	258308	4084874	0.02615195	3.98E-03	2.16E-03
652	258283.6	4084875	0.02644565	4.03E-03	2.18E-03
653	258259.3	4084876	0.02665059	4.06E-03	2.20E-03
654	258235	4084877	0.02679137	4.08E-03	2.21E-03
655	258210.6	4084878	0.02688087	4.10E-03	2.22E-03
656	258186.3	4084879	0.02692755	4.10E-03	2.22E-03
657	258162	4084880	0.02693526	4.10E-03	2.22E-03
658	258137.6	4084881	0.0269074	4.10E-03	2.22E-03
659	258113.3	4084882	0.02684872	4.09E-03	2.21E-03
660	258089	4084883	0.02675195	4.08E-03	2.21E-03
661	258064.6	4084884	0.02661873	4.06E-03	2.19E-03
662	258040.3	4084885	0.02644788	4.03E-03	2.18E-03
663	258016	4084886	0.02623419	4.00E-03	2.16E-03
664	257991.7	4084887	0.02597324	3.96E-03	2.14E-03
665	257967.3	4084888	0.02565954	3.91E-03	2.12E-03
666	257943	4084889	0.02528937	3.85E-03	2.08E-03
667	257918.7	4084890	0.02485771	3.79E-03	2.05E-03
668	257894.3	4084891	0.02434988	3.71E-03	2.01E-03
669	257870	4084892	0.02375091	3.62E-03	1.96E-03
670	257845.7	4084893	0.02304363	3.51E-03	1.90E-03
671	257821.3	4084894	0.0222089	3.38E-03	1.83E-03
672	257797	4084895	0.02122584	3.23E-03	1.75E-03
673	257772.7	4084896	0.02007089	3.06E-03	1.65E-03
674	257748.3	4084897	0.01871633	2.85E-03	1.54E-03
675	257724	4084898	0.01713535	2.61E-03	1.41E-03
676	257699.7	4084899	0.01530423	2.33E-03	1.26E-03
677	257675.3	4084900	0.01320964	2.01E-03	1.09E-03
678	257651	4084901	0.01087647	1.66E-03	8.97E-04
679	257626.7	4084902	0.0084249	1.28E-03	6.94E-04
680	257602.3	4084903	0.006152337	9.37E-04	5.07E-04
681	257578	4084904	0.004477256	6.82E-04	3.69E-04
682	257553.7	4084905	0.003487826	5.31E-04	2.88E-04
683	258373.7	4084854	0.02014128	3.07E-03	1.66E-03
684	258417.8	4084885	0.02277275	3.47E-03	1.88E-03
685	258331.3	4084848	0.01961567	2.99E-03	1.62E-03
686	258306.9	4084849	0.01987025	3.03E-03	1.64E-03
687	258282.6	4084850	0.02003933	3.05E-03	1.65E-03
688	258258.3	4084851	0.02015254	3.07E-03	1.66E-03
689	258233.9	4084852	0.02022249	3.08E-03	1.67E-03
690	258209.6	4084853	0.02025775	3.09E-03	1.67E-03
691	258185.3	4084854	0.02025761	3.09E-03	1.67E-03
692	258160.9	4084855	0.0202256	3.08E-03	1.67E-03
693	258136.6	4084856	0.02016366	3.07E-03	1.66E-03
694	258112.3	4084857	0.02007104	3.06E-03	1.65E-03
695	258088	4084858	0.01995071	3.04E-03	1.64E-03
696	258063.6	4084859	0.01979897	3.02E-03	1.63E-03
697	258039.3	4084860	0.01961167	2.99E-03	1.62E-03

698	258015	4084861	0.0193848	2.95E-03	1.60E-03
699	257990.6	4084862	0.01911406	2.91E-03	1.58E-03
700	257966.3	4084863	0.01879384	2.86E-03	1.55E-03
701	257942	4084864	0.01841819	2.81E-03	1.52E-03
702	257917.6	4084865	0.01797956	2.74E-03	1.48E-03
703	257893.3	4084866	0.01746906	2.66E-03	1.44E-03
704	257869	4084867	0.01687692	2.57E-03	1.39E-03
705	257844.6	4084868	0.01619186	2.47E-03	1.33E-03
706	257820.3	4084869	0.01540203	2.35E-03	1.27E-03
707	257796	4084870	0.01449633	2.21E-03	1.19E-03
708	257771.6	4084871	0.01346392	2.05E-03	1.11E-03
709	257747.3	4084872	0.01229741	1.87E-03	1.01E-03
710	257723	4084873	0.01099724	1.68E-03	9.06E-04
711	257698.6	4084874	0.00957511	1.46E-03	7.89E-04
712	257674.3	4084875	0.008066885	1.23E-03	6.65E-04
713	257650	4084876	0.006546509	9.97E-04	5.40E-04
714	257625.6	4084877	0.005137864	7.83E-04	4.24E-04
715	257601.3	4084878	0.003988987	6.08E-04	3.29E-04
716	257577	4084879	0.003173971	4.84E-04	2.62E-04
717	257552.7	4084880	0.002634874	4.01E-04	2.17E-04
718	258372.7	4084829	0.01615215	2.46E-03	1.33E-03
719	258408.8	4084842	0.0170414	2.60E-03	1.40E-03
720	258434.8	4084866	0.01839788	2.80E-03	1.52E-03
721	258330.2	4084823	0.01568862	2.39E-03	1.29E-03
722	258305.9	4084824	0.01584007	2.41E-03	1.31E-03
723	258281.6	4084825	0.01593254	2.43E-03	1.31E-03
724	258257.3	4084826	0.01598781	2.44E-03	1.32E-03
725	258232.9	4084827	0.01601315	2.44E-03	1.32E-03
726	258208.6	4084828	0.01601107	2.44E-03	1.32E-03
727	258184.3	4084829	0.01598262	2.43E-03	1.32E-03
728	258159.9	4084830	0.01592779	2.43E-03	1.31E-03
729	258135.6	4084831	0.01584585	2.41E-03	1.31E-03
730	258111.3	4084832	0.0157356	2.40E-03	1.30E-03
731	258086.9	4084833	0.01559616	2.38E-03	1.29E-03
732	258062.6	4084834	0.01542545	2.35E-03	1.27E-03
733	258038.3	4084835	0.0152208	2.32E-03	1.25E-03
734	258013.9	4084836	0.01497911	2.28E-03	1.23E-03
735	257989.6	4084837	0.01469653	2.24E-03	1.21E-03
736	257965.3	4084838	0.0143683	2.19E-03	1.18E-03
737	257940.9	4084839	0.01398954	2.13E-03	1.15E-03
738	257916.6	4084840	0.01355447	2.06E-03	1.12E-03
739	257892.3	4084841	0.01305701	1.99E-03	1.08E-03
740	257867.9	4084842	0.01249079	1.90E-03	1.03E-03
741	257843.6	4084843	0.01184975	1.81E-03	9.77E-04
742	257819.3	4084844	0.01112913	1.70E-03	9.17E-04
743	257794.9	4084845	0.01032581	1.57E-03	8.51E-04
744	257770.6	4084846	0.009440113	1.44E-03	7.78E-04

745	257746.3	4084847	0.008478394	1.29E-03	6.99E-04
746	257722	4084848	0.007455623	1.14E-03	6.15E-04
747	257697.6	4084849	0.006399361	9.75E-04	5.27E-04
748	257673.3	4084850	0.005355547	8.16E-04	4.41E-04
749	257649	4084851	0.004385678	6.68E-04	3.62E-04
750	257624.6	4084852	0.003555398	5.42E-04	2.93E-04
751	257600.3	4084853	0.00290709	4.43E-04	2.40E-04
752	257576	4084854	0.002434232	3.71E-04	2.01E-04
753	257551.6	4084855	0.002094741	3.19E-04	1.73E-04
754	258374.2	4084780	0.01132814	1.73E-03	9.34E-04
755	258395.9	4084788	0.01180262	1.80E-03	9.73E-04
756	258417.6	4084796	0.01217175	1.85E-03	1.00E-03
757	258439.3	4084804	0.01235595	1.88E-03	1.02E-03
758	258470.5	4084833	0.01322135	2.01E-03	1.09E-03
759	258480	4084854	0.01382327	2.11E-03	1.14E-03
760	258489.6	4084876	0.01394627	2.12E-03	1.15E-03
761	258499.1	4084897	0.01359447	2.07E-03	1.12E-03
762	258352.5	4084772	0.01080564	1.65E-03	8.91E-04
763	258328.2	4084773	0.01088595	1.66E-03	8.97E-04
764	258303.9	4084774	0.01092848	1.66E-03	9.01E-04
765	258279.5	4084775	0.01093974	1.67E-03	9.02E-04
766	258255.2	4084776	0.01092552	1.66E-03	9.01E-04
767	258230.9	4084777	0.01088966	1.66E-03	8.98E-04
768	258206.5	4084778	0.01083379	1.65E-03	8.93E-04
769	258182.2	4084779	0.01075807	1.64E-03	8.87E-04
770	258157.9	4084780	0.01066219	1.62E-03	8.79E-04
771	258133.5	4084781	0.01054483	1.61E-03	8.69E-04
772	258109.2	4084782	0.01040465	1.59E-03	8.58E-04
773	258084.9	4084783	0.01023972	1.56E-03	8.44E-04
774	258060.5	4084784	0.01004841	1.53E-03	8.28E-04
775	258036.2	4084785	0.009828654	1.50E-03	8.10E-04
776	258011.9	4084786	0.009578519	1.46E-03	7.90E-04
777	257987.5	4084787	0.009295337	1.42E-03	7.66E-04
778	257963.2	4084788	0.008976888	1.37E-03	7.40E-04
779	257938.9	4084789	0.008620948	1.31E-03	7.11E-04
780	257914.6	4084790	0.008225739	1.25E-03	6.78E-04
781	257890.2	4084791	0.007790075	1.19E-03	6.42E-04
782	257865.9	4084792	0.007314254	1.11E-03	6.03E-04
783	257841.6	4084793	0.006799757	1.04E-03	5.61E-04
784	257817.2	4084794	0.006250435	9.52E-04	5.15E-04
785	257792.9	4084795	0.005673108	8.64E-04	4.68E-04
786	257768.6	4084796	0.005077701	7.74E-04	4.19E-04
787	257744.2	4084797	0.004479479	6.82E-04	3.69E-04
788	257719.9	4084798	0.00389652	5.94E-04	3.21E-04
789	257695.6	4084799	0.003349718	5.10E-04	2.76E-04
790	257671.2	4084800	0.002859967	4.36E-04	2.36E-04
791	257646.9	4084801	0.002441345	3.72E-04	2.01E-04

792	257622.6	4084802	0.002099334	3.20E-04	1.73E-04
793	257598.2	4084803	0.001828452	2.79E-04	1.51E-04
794	257573.9	4084804	0.001615955	2.46E-04	1.33E-04
795	257549.6	4084805	0.001447469	2.21E-04	1.19E-04
796	258371.1	4084730	0.008355252	1.27E-03	6.89E-04
797	258412.4	4084745	0.009011711	1.37E-03	7.43E-04
798	258453.7	4084760	0.009452858	1.44E-03	7.79E-04
799	258504.1	4084796	0.01002648	1.53E-03	8.26E-04
800	258522.3	4084836	0.01061907	1.62E-03	8.75E-04
801	258540.4	4084876	0.01025394	1.56E-03	8.45E-04
802	258326.1	4084723	0.00800598	1.22E-03	6.60E-04
803	258301.8	4084724	0.007993978	1.22E-03	6.59E-04
804	258277.5	4084725	0.007961228	1.21E-03	6.56E-04
805	258253.1	4084726	0.007909513	1.20E-03	6.52E-04
806	258228.8	4084727	0.007840903	1.19E-03	6.46E-04
807	258204.5	4084728	0.007756289	1.18E-03	6.39E-04
808	258180.1	4084729	0.007655524	1.17E-03	6.31E-04
809	258155.8	4084730	0.007538013	1.15E-03	6.21E-04
810	258131.5	4084731	0.007403017	1.13E-03	6.10E-04
811	258107.2	4084732	0.007249794	1.10E-03	5.98E-04
812	258082.8	4084733	0.007076862	1.08E-03	5.83E-04
813	258058.5	4084734	0.006883778	1.05E-03	5.67E-04
814	258034.2	4084735	0.006669058	1.02E-03	5.50E-04
815	258009.8	4084736	0.006431814	9.80E-04	5.30E-04
816	257985.5	4084737	0.006171453	9.40E-04	5.09E-04
817	257961.2	4084738	0.005887679	8.97E-04	4.85E-04
818	257936.8	4084739	0.00558064	8.50E-04	4.60E-04
819	257912.5	4084740	0.005251818	8.00E-04	4.33E-04
820	257888.2	4084741	0.004902842	7.47E-04	4.04E-04
821	257863.8	4084742	0.004537271	6.91E-04	3.74E-04
822	257839.5	4084743	0.004159844	6.34E-04	3.43E-04
823	257815.2	4084744	0.003776194	5.75E-04	3.11E-04
824	257790.8	4084745	0.003394469	5.17E-04	2.80E-04
825	257766.5	4084746	0.003023563	4.61E-04	2.49E-04
826	257742.2	4084747	0.00267281	4.07E-04	2.20E-04
827	257717.8	4084748	0.002350804	3.58E-04	1.94E-04
828	257693.5	4084749	0.002064066	3.14E-04	1.70E-04
829	257669.2	4084750	0.001816301	2.77E-04	1.50E-04
830	257644.8	4084751	0.001607509	2.45E-04	1.33E-04
831	257620.5	4084752	0.001434281	2.19E-04	1.18E-04
832	257596.2	4084753	0.001291727	1.97E-04	1.06E-04
833	257571.9	4084754	0.00117392	1.79E-04	9.68E-05
834	257547.5	4084755	0.001075377	1.64E-04	8.86E-05
835	258371	4084681	0.006413142	9.77E-04	5.29E-04
836	258393.6	4084689	0.006708326	1.02E-03	5.53E-04
837	258416.2	4084697	0.006985284	1.06E-03	5.76E-04
838	258438.8	4084706	0.007232753	1.10E-03	5.96E-04

839	258461.4	4084714	0.007433691	1.13E-03	6.13E-04
840	258484	4084722	0.007568688	1.15E-03	6.24E-04
841	258506.6	4084731	0.007615663	1.16E-03	6.28E-04
842	258539.1	4084761	0.007991903	1.22E-03	6.59E-04
843	258549	4084783	0.008293015	1.26E-03	6.84E-04
844	258558.9	4084805	0.008436754	1.29E-03	6.95E-04
845	258568.9	4084827	0.008402968	1.28E-03	6.93E-04
846	258578.8	4084849	0.008168095	1.24E-03	6.73E-04
847	258588.7	4084871	0.007751251	1.18E-03	6.39E-04
848	258598.6	4084893	0.007192298	1.10E-03	5.93E-04
849	258348.4	4084672	0.006106845	9.30E-04	5.03E-04
850	258324.1	4084673	0.006080616	9.26E-04	5.01E-04
851	258299.8	4084674	0.006038531	9.20E-04	4.98E-04
852	258275.4	4084675	0.005981184	9.11E-04	4.93E-04
853	258251.1	4084676	0.005909314	9.00E-04	4.87E-04
854	258226.8	4084677	0.005823663	8.87E-04	4.80E-04
855	258202.4	4084678	0.00572512	8.72E-04	4.72E-04
856	258178.1	4084679	0.005613537	8.55E-04	4.63E-04
857	258153.8	4084680	0.005488766	8.36E-04	4.52E-04
858	258129.4	4084681	0.005350213	8.15E-04	4.41E-04
859	258105.1	4084682	0.005197434	7.92E-04	4.28E-04
860	258080.8	4084683	0.005030281	7.66E-04	4.15E-04
861	258056.4	4084684	0.004848607	7.39E-04	4.00E-04
862	258032.1	4084685	0.00465241	7.09E-04	3.83E-04
863	258007.8	4084686	0.004442432	6.77E-04	3.66E-04
864	257983.4	4084687	0.004218525	6.43E-04	3.48E-04
865	257959.1	4084688	0.003984245	6.07E-04	3.28E-04
866	257934.8	4084689	0.003737814	5.69E-04	3.08E-04
867	257910.4	4084690	0.003481602	5.30E-04	2.87E-04
868	257886.1	4084691	0.003219611	4.90E-04	2.65E-04
869	257861.8	4084692	0.002955694	4.50E-04	2.44E-04
870	257837.4	4084693	0.002694296	4.10E-04	2.22E-04
871	257813.1	4084694	0.002440011	3.72E-04	2.01E-04
872	257788.8	4084695	0.002197729	3.35E-04	1.81E-04
873	257764.5	4084696	0.001971895	3.00E-04	1.63E-04
874	257740.1	4084697	0.00176577	2.69E-04	1.46E-04
875	257715.8	4084698	0.001581577	2.41E-04	1.30E-04
876	257691.5	4084699	0.001420055	2.16E-04	1.17E-04
877	257667.1	4084700	0.001280761	1.95E-04	1.06E-04
878	257642.8	4084701	0.001161769	1.77E-04	9.58E-05
879	257618.5	4084702	0.001060707	1.62E-04	8.74E-05
880	257594.1	4084703	0.000974612	1.48E-04	8.03E-05
881	257569.8	4084704	0.000900964	1.37E-04	7.43E-05
882	257545.5	4084705	0.000837541	1.28E-04	6.90E-05
883	258368	4084630	0.00499531	7.61E-04	4.12E-04
884	258389.7	4084638	0.005229739	7.97E-04	4.31E-04
885	258411.4	4084646	0.005455127	8.31E-04	4.50E-04

886	258433.1	4084654	0.005667328	8.63E-04	4.67E-04
887	258454.8	4084662	0.005860117	8.93E-04	4.83E-04
888	258476.5	4084670	0.006025491	9.18E-04	4.97E-04
889	258498.2	4084679	0.006153671	9.37E-04	5.07E-04
890	258519.9	4084687	0.006233987	9.50E-04	5.14E-04
891	258541.5	4084695	0.006256215	9.53E-04	5.16E-04
892	258572.8	4084724	0.006519391	9.93E-04	5.37E-04
893	258582.3	4084745	0.006758265	1.03E-03	5.57E-04
894	258591.8	4084766	0.006878146	1.05E-03	5.67E-04
895	258601.4	4084787	0.00691134	1.05E-03	5.70E-04
896	258610.9	4084808	0.006821095	1.04E-03	5.62E-04
897	258620.4	4084829	0.006608895	1.01E-03	5.45E-04
898	258630	4084850	0.006288371	9.58E-04	5.18E-04
899	258639.5	4084871	0.005883382	8.96E-04	4.85E-04
900	258649	4084892	0.005422675	8.26E-04	4.47E-04
901	258346.4	4084622	0.004755399	7.24E-04	3.92E-04
902	258322	4084623	0.004708573	7.17E-04	3.88E-04
903	258297.7	4084624	0.00465167	7.09E-04	3.83E-04
904	258273.4	4084625	0.004583653	6.98E-04	3.78E-04
905	258249	4084626	0.004502003	6.86E-04	3.71E-04
906	258224.7	4084627	0.004412647	6.72E-04	3.64E-04
907	258200.4	4084628	0.004310993	6.57E-04	3.55E-04
908	258176	4084629	0.004198372	6.40E-04	3.46E-04
909	258151.7	4084630	0.004075823	6.21E-04	3.36E-04
910	258127.4	4084631	0.003943494	6.01E-04	3.25E-04
911	258103	4084632	0.003797532	5.79E-04	3.13E-04
912	258078.7	4084633	0.003645198	5.55E-04	3.00E-04
913	258054.4	4084634	0.003484121	5.31E-04	2.87E-04
914	258030	4084635	0.003315931	5.05E-04	2.73E-04
915	258005.7	4084636	0.003142111	4.79E-04	2.59E-04
916	257981.4	4084637	0.002958954	4.51E-04	2.44E-04
917	257957.1	4084638	0.002771204	4.22E-04	2.28E-04
918	257932.7	4084639	0.002581083	3.93E-04	2.13E-04
919	257908.4	4084640	0.002390814	3.64E-04	1.97E-04
920	257884.1	4084641	0.002202915	3.36E-04	1.82E-04
921	257859.7	4084642	0.002020204	3.08E-04	1.67E-04
922	257835.4	4084643	0.001845197	2.81E-04	1.52E-04
923	257811.1	4084644	0.001680416	2.56E-04	1.39E-04
924	257786.7	4084645	0.001527489	2.33E-04	1.26E-04
925	257762.4	4084646	0.001387899	2.11E-04	1.14E-04
926	257738.1	4084647	0.001262238	1.92E-04	1.04E-04
927	257713.7	4084648	0.001150655	1.75E-04	9.48E-05
928	257689.4	4084649	0.001052112	1.60E-04	8.67E-05
929	257665.1	4084650	0.000966165	1.47E-04	7.96E-05
930	257640.7	4084651	0.00089148	1.36E-04	7.35E-05
931	257616.4	4084652	0.000826575	1.26E-04	6.81E-05
932	257592.1	4084653	0.000769968	1.17E-04	6.35E-05

933	257567.7	4084654	0.00072003	1.10E-04	5.94E-05
934	257543.4	4084655	0.000676019	1.03E-04	5.57E-05
935	258364.5	4084531	0.003154558	4.81E-04	2.60E-04
936	258386.7	4084539	0.003327638	5.07E-04	2.74E-04
937	258409	4084547	0.003498051	5.33E-04	2.88E-04
938	258431.2	4084555	0.003664166	5.58E-04	3.02E-04
939	258453.5	4084564	0.003823316	5.82E-04	3.15E-04
940	258475.7	4084572	0.003973427	6.05E-04	3.28E-04
941	258498	4084580	0.004110795	6.26E-04	3.39E-04
942	258520.2	4084588	0.004232455	6.45E-04	3.49E-04
943	258542.4	4084597	0.004333517	6.60E-04	3.57E-04
944	258564.7	4084605	0.004409535	6.72E-04	3.63E-04
945	258586.9	4084613	0.004455769	6.79E-04	3.67E-04
946	258609.2	4084621	0.00446792	6.81E-04	3.68E-04
947	258641.2	4084651	0.004633294	7.06E-04	3.82E-04
948	258651	4084673	0.004786666	7.29E-04	3.95E-04
949	258660.7	4084694	0.004885653	7.44E-04	4.03E-04
950	258670.5	4084716	0.004925663	7.50E-04	4.06E-04
951	258680.3	4084738	0.004911289	7.48E-04	4.05E-04
952	258690.1	4084759	0.004830529	7.36E-04	3.98E-04
953	258699.9	4084781	0.004685604	7.14E-04	3.86E-04
954	258709.6	4084802	0.004484221	6.83E-04	3.70E-04
955	258719.4	4084824	0.004237048	6.45E-04	3.49E-04
956	258729.2	4084846	0.003957572	6.03E-04	3.26E-04
957	258739	4084867	0.003660461	5.58E-04	3.02E-04
958	258748.7	4084889	0.003359202	5.12E-04	2.77E-04
959	258342.3	4084522	0.002982516	4.54E-04	2.46E-04
960	258317.9	4084523	0.002922056	4.45E-04	2.41E-04
961	258293.6	4084524	0.002854781	4.35E-04	2.35E-04
962	258269.3	4084525	0.002780836	4.24E-04	2.29E-04
963	258244.9	4084526	0.00270052	4.11E-04	2.23E-04
964	258220.6	4084527	0.002614128	3.98E-04	2.15E-04
965	258196.3	4084528	0.002522402	3.84E-04	2.08E-04
966	258171.9	4084529	0.002425933	3.70E-04	2.00E-04
967	258147.6	4084530	0.002325168	3.54E-04	1.92E-04
968	258123.3	4084531	0.002221142	3.38E-04	1.83E-04
969	258098.9	4084532	0.002114153	3.22E-04	1.74E-04
970	258074.6	4084533	0.002004941	3.05E-04	1.65E-04
971	258050.3	4084534	0.001894395	2.89E-04	1.56E-04
972	258025.9	4084535	0.001783256	2.72E-04	1.47E-04
973	258001.6	4084536	0.001672562	2.55E-04	1.38E-04
974	257977.3	4084537	0.001563202	2.38E-04	1.29E-04
975	257952.9	4084538	0.001456657	2.22E-04	1.20E-04
976	257928.6	4084539	0.001353816	2.06E-04	1.12E-04
977	257904.3	4084540	0.001255718	1.91E-04	1.04E-04
978	257879.9	4084541	0.001163399	1.77E-04	9.59E-05
979	257855.6	4084542	0.001077452	1.64E-04	8.88E-05

980	257831.3	4084543	0.000998321	1.52E-04	8.23E-05
981	257807	4084544	0.000925859	1.41E-04	7.63E-05
982	257782.6	4084545	0.000860213	1.31E-04	7.09E-05
983	257758.3	4084546	0.000800939	1.22E-04	6.60E-05
984	257734	4084547	0.000747592	1.14E-04	6.16E-05
985	257709.6	4084548	0.000699877	1.07E-04	5.77E-05
986	257685.3	4084549	0.0006572	1.00E-04	5.42E-05
987	257661	4084550	0.000618968	9.43E-05	5.10E-05
988	257636.6	4084551	0.000584589	8.91E-05	4.82E-05
989	257612.3	4084552	0.000553619	8.43E-05	4.56E-05
990	257588	4084553	0.000525463	8.01E-05	4.33E-05
991	257563.6	4084554	0.000499827	7.61E-05	4.12E-05
992	257539.3	4084555	0.000476118	7.25E-05	3.92E-05
993	258360.7	4084431	0.002048062	3.12E-04	1.69E-04
994	258383.3	4084439	0.002178021	3.32E-04	1.80E-04
995	258405.9	4084448	0.002307238	3.51E-04	1.90E-04
996	258428.5	4084456	0.00243601	3.71E-04	2.01E-04
997	258451.1	4084464	0.00256093	3.90E-04	2.11E-04
998	258473.7	4084473	0.00268422	4.09E-04	2.21E-04
999	258496.3	4084481	0.002803805	4.27E-04	2.31E-04
1000	258518.9	4084489	0.002917314	4.44E-04	2.40E-04
1001	258541.5	4084498	0.003023118	4.61E-04	2.49E-04
1002	258564.1	4084506	0.003119142	4.75E-04	2.57E-04
1003	258586.6	4084514	0.003203015	4.88E-04	2.64E-04
1004	258609.2	4084523	0.003272217	4.99E-04	2.70E-04
1005	258631.8	4084531	0.003324082	5.06E-04	2.74E-04
1006	258654.4	4084540	0.003356534	5.11E-04	2.77E-04
1007	258677	4084548	0.003366907	5.13E-04	2.78E-04
1008	258709.5	4084578	0.003473304	5.29E-04	2.86E-04
1009	258719.5	4084600	0.003579997	5.45E-04	2.95E-04
1010	258729.4	4084622	0.00365972	5.58E-04	3.02E-04
1011	258739.3	4084644	0.00370788	5.65E-04	3.06E-04
1012	258749.2	4084666	0.003720476	5.67E-04	3.07E-04
1013	258759.2	4084688	0.003694988	5.63E-04	3.05E-04
1014	258769.1	4084710	0.003630676	5.53E-04	2.99E-04
1015	258779	4084732	0.003529466	5.38E-04	2.91E-04
1016	258789	4084754	0.003395359	5.17E-04	2.80E-04
1017	258798.9	4084776	0.003234282	4.93E-04	2.67E-04
1018	258808.8	4084798	0.003052755	4.65E-04	2.52E-04
1019	258818.8	4084820	0.002858337	4.35E-04	2.36E-04
1020	258828.7	4084842	0.002659028	4.05E-04	2.19E-04
1021	258838.6	4084864	0.002461498	3.75E-04	2.03E-04
1022	258848.5	4084886	0.00227034	3.46E-04	1.87E-04
1023	258338.1	4084422	0.001920327	2.93E-04	1.58E-04
1024	258313.8	4084423	0.001863424	2.84E-04	1.54E-04
1025	258289.5	4084424	0.001803261	2.75E-04	1.49E-04
1026	258265.2	4084425	0.001739986	2.65E-04	1.43E-04

1027	258240.8	4084426	0.001673747	2.55E-04	1.38E-04
1028	258216.5	4084427	0.001605138	2.45E-04	1.32E-04
1029	258192.2	4084428	0.00153475	2.34E-04	1.27E-04
1030	258167.8	4084429	0.001462881	2.23E-04	1.21E-04
1031	258143.5	4084430	0.001390566	2.12E-04	1.15E-04
1032	258119.2	4084431	0.0013184	2.01E-04	1.09E-04
1033	258094.8	4084432	0.001246827	1.90E-04	1.03E-04
1034	258070.5	4084433	0.001176884	1.79E-04	9.70E-05
1035	258046.2	4084434	0.001108422	1.69E-04	9.14E-05
1036	258021.8	4084435	0.001042332	1.59E-04	8.59E-05
1037	257997.5	4084436	0.000979057	1.49E-04	8.07E-05
1038	257973.2	4084437	0.000918746	1.40E-04	7.57E-05
1039	257948.8	4084438	0.000861695	1.31E-04	7.10E-05
1040	257924.5	4084439	0.000808052	1.23E-04	6.66E-05
1041	257900.2	4084440	0.000757965	1.15E-04	6.25E-05
1042	257875.8	4084441	0.000711287	1.08E-04	5.86E-05
1043	257851.5	4084442	0.000668017	1.02E-04	5.51E-05
1044	257827.2	4084443	0.000628007	9.57E-05	5.18E-05
1045	257802.8	4084444	0.000591406	9.01E-05	4.87E-05
1046	257778.5	4084445	0.000558064	8.50E-05	4.60E-05
1047	257754.2	4084446	0.000527834	8.04E-05	4.35E-05
1048	257729.9	4084447	0.000500717	7.63E-05	4.13E-05
1049	257705.5	4084448	0.000476118	7.25E-05	3.92E-05
1050	257681.2	4084449	0.000454038	6.92E-05	3.74E-05
1051	257656.9	4084450	0.000434182	6.61E-05	3.58E-05
1052	257632.5	4084451	0.000416103	6.34E-05	3.43E-05
1053	257608.2	4084452	0.000399654	6.09E-05	3.29E-05
1054	257583.9	4084453	0.000384391	5.86E-05	3.17E-05
1055	257559.5	4084454	0.000370166	5.64E-05	3.05E-05
1056	257535.2	4084455	0.000356829	5.44E-05	2.94E-05
1057	258356.9	4084331	0.001358707	2.07E-04	1.12E-04
1058	258379.7	4084339	0.001452804	2.21E-04	1.20E-04
1059	258402.5	4084348	0.001548976	2.36E-04	1.28E-04
1060	258425.4	4084356	0.001646333	2.51E-04	1.36E-04
1061	258448.2	4084365	0.001744283	2.66E-04	1.44E-04
1062	258471	4084373	0.001842234	2.81E-04	1.52E-04
1063	258493.8	4084382	0.001939147	2.95E-04	1.60E-04
1064	258516.7	4084390	0.002034429	3.10E-04	1.68E-04
1065	258539.5	4084399	0.002127045	3.24E-04	1.75E-04
1066	258562.3	4084407	0.002215956	3.38E-04	1.83E-04
1067	258585.2	4084416	0.002299977	3.50E-04	1.90E-04
1068	258608	4084424	0.002377625	3.62E-04	1.96E-04
1069	258630.8	4084432	0.002447865	3.73E-04	2.02E-04
1070	258653.6	4084441	0.002509658	3.82E-04	2.07E-04
1071	258676.5	4084449	0.002561078	3.90E-04	2.11E-04
1072	258699.3	4084458	0.002600199	3.96E-04	2.14E-04
1073	258722.1	4084466	0.002621686	3.99E-04	2.16E-04

1074	258745	4084475	0.002629539	4.01E-04	2.17E-04
1075	258777.8	4084505	0.002718895	4.14E-04	2.24E-04
1076	258787.9	4084528	0.002798026	4.26E-04	2.31E-04
1077	258797.9	4084550	0.002859967	4.36E-04	2.36E-04
1078	258807.9	4084572	0.002902496	4.42E-04	2.39E-04
1079	258818	4084594	0.002923538	4.45E-04	2.41E-04
1080	258828	4084616	0.002921464	4.45E-04	2.41E-04
1081	258838	4084638	0.002895531	4.41E-04	2.39E-04
1082	258848.1	4084661	0.002845741	4.34E-04	2.35E-04
1083	258858.1	4084683	0.002773279	4.22E-04	2.29E-04
1084	258868.1	4084705	0.002680367	4.08E-04	2.21E-04
1085	258878.2	4084727	0.002570265	3.92E-04	2.12E-04
1086	258888.2	4084749	0.00244668	3.73E-04	2.02E-04
1087	258898.2	4084771	0.002313461	3.52E-04	1.91E-04
1088	258908.3	4084794	0.002174909	3.31E-04	1.79E-04
1089	258918.3	4084816	0.002035911	3.10E-04	1.68E-04
1090	258928.3	4084838	0.001899581	2.89E-04	1.57E-04
1091	258938.4	4084860	0.001768289	2.69E-04	1.46E-04
1092	258948.4	4084882	0.001643073	2.50E-04	1.35E-04
1093	258334	4084323	0.00126698	1.93E-04	1.04E-04
1094	258309.7	4084324	0.001220598	1.86E-04	1.01E-04
1095	258285.4	4084325	0.001173179	1.79E-04	9.67E-05
1096	258261	4084326	0.001125019	1.71E-04	9.27E-05
1097	258236.7	4084327	0.001076118	1.64E-04	8.87E-05
1098	258212.4	4084328	0.001026773	1.56E-04	8.46E-05
1099	258188	4084329	0.000977427	1.49E-04	8.06E-05
1100	258163.7	4084330	0.000928674	1.41E-04	7.66E-05
1101	258139.4	4084331	0.000880662	1.34E-04	7.26E-05
1102	258115.1	4084332	0.000833984	1.27E-04	6.87E-05
1103	258090.7	4084333	0.000788936	1.20E-04	6.50E-05
1104	258066.4	4084334	0.000745814	1.14E-04	6.15E-05
1105	258042.1	4084335	0.000704915	1.07E-04	5.81E-05
1106	258017.7	4084336	0.000666387	1.02E-04	5.49E-05
1107	257993.4	4084337	0.00063023	9.60E-05	5.19E-05
1108	257969.1	4084338	0.000596444	9.09E-05	4.92E-05
1109	257944.7	4084339	0.000564881	8.61E-05	4.66E-05
1110	257920.4	4084340	0.00053554	8.16E-05	4.41E-05
1111	257896.1	4084341	0.000508274	7.74E-05	4.19E-05
1112	257871.7	4084342	0.000482934	7.36E-05	3.98E-05
1113	257847.4	4084343	0.000459225	7.00E-05	3.79E-05
1114	257823.1	4084344	0.000437293	6.66E-05	3.60E-05
1115	257798.7	4084345	0.000416992	6.35E-05	3.44E-05
1116	257774.4	4084346	0.000398024	6.06E-05	3.28E-05
1117	257750.1	4084347	0.000380687	5.80E-05	3.14E-05
1118	257725.7	4084348	0.000364683	5.56E-05	3.01E-05
1119	257701.4	4084349	0.000350161	5.33E-05	2.89E-05
1120	257677.1	4084350	0.000336824	5.13E-05	2.78E-05

1121	257652.7	4084351	0.000324525	4.94E-05	2.68E-05
1122	257628.4	4084352	0.000313411	4.77E-05	2.58E-05
1123	257604.1	4084353	0.000303186	4.62E-05	2.50E-05
1124	257579.8	4084354	0.000293702	4.47E-05	2.42E-05
1125	257555.4	4084355	0.000284811	4.34E-05	2.35E-05
1126	257531.1	4084356	0.000276661	4.21E-05	2.28E-05
1127	258351.9	4084231	0.000920672	1.40E-04	7.59E-05
1128	258373.9	4084239	0.00098454	1.50E-04	8.12E-05
1129	258395.9	4084247	0.001050927	1.60E-04	8.66E-05
1130	258417.9	4084255	0.001119536	1.71E-04	9.23E-05
1131	258439.9	4084263	0.001189924	1.81E-04	9.81E-05
1132	258461.9	4084272	0.001261645	1.92E-04	1.04E-04
1133	258483.9	4084280	0.00133396	2.03E-04	1.10E-04
1134	258505.9	4084288	0.001406867	2.14E-04	1.16E-04
1135	258527.9	4084296	0.001479477	2.25E-04	1.22E-04
1136	258549.9	4084304	0.001551643	2.36E-04	1.28E-04
1137	258571.9	4084312	0.001622327	2.47E-04	1.34E-04
1138	258594	4084320	0.00169153	2.58E-04	1.39E-04
1139	258616	4084329	0.001758065	2.68E-04	1.45E-04
1140	258638	4084337	0.001821488	2.77E-04	1.50E-04
1141	258660	4084345	0.001881354	2.87E-04	1.55E-04
1142	258682	4084353	0.001936776	2.95E-04	1.60E-04
1143	258704	4084361	0.001986862	3.03E-04	1.64E-04
1144	258726	4084369	0.002030873	3.09E-04	1.67E-04
1145	258748	4084377	0.002067475	3.15E-04	1.70E-04
1146	258770	4084386	0.002095926	3.19E-04	1.73E-04
1147	258792	4084394	0.002115486	3.22E-04	1.74E-04
1148	258814	4084402	0.002121117	3.23E-04	1.75E-04
1149	258845.6	4084431	0.002190023	3.34E-04	1.81E-04
1150	258855.3	4084453	0.00224989	3.43E-04	1.85E-04
1151	258865	4084474	0.002298939	3.50E-04	1.90E-04
1152	258874.6	4084496	0.002336282	3.56E-04	1.93E-04
1153	258884.3	4084517	0.002360732	3.60E-04	1.95E-04
1154	258894	4084538	0.00237155	3.61E-04	1.95E-04
1155	258903.7	4084560	0.00236829	3.61E-04	1.95E-04
1156	258913.3	4084581	0.002350804	3.58E-04	1.94E-04
1157	258923	4084602	0.002319092	3.53E-04	1.91E-04
1158	258932.7	4084624	0.0022736	3.46E-04	1.87E-04
1159	258942.3	4084645	0.002215511	3.38E-04	1.83E-04
1160	258952	4084667	0.002146161	3.27E-04	1.77E-04
1161	258961.7	4084688	0.002067326	3.15E-04	1.70E-04
1162	258971.4	4084709	0.001980935	3.02E-04	1.63E-04
1163	258981	4084731	0.001888764	2.88E-04	1.56E-04
1164	258990.7	4084752	0.001793036	2.73E-04	1.48E-04
1165	259000.4	4084773	0.001696123	2.58E-04	1.40E-04
1166	259010	4084795	0.0016001	2.44E-04	1.32E-04
1167	259019.7	4084816	0.001506743	2.30E-04	1.24E-04

1168	259029.4	4084838	0.001416943	2.16E-04	1.17E-04
1169	259039	4084859	0.001331144	2.03E-04	1.10E-04
1170	259048.7	4084880	0.001249791	1.90E-04	1.03E-04
1171	258329.9	4084223	0.00085962	1.31E-04	7.09E-05
1172	258305.6	4084224	0.000825093	1.26E-04	6.80E-05
1173	258281.3	4084225	0.000790714	1.20E-04	6.52E-05
1174	258256.9	4084226	0.000756632	1.15E-04	6.24E-05
1175	258232.6	4084227	0.000722846	1.10E-04	5.96E-05
1176	258208.3	4084228	0.000689504	1.05E-04	5.68E-05
1177	258183.9	4084229	0.000656755	1.00E-04	5.41E-05
1178	258159.6	4084230	0.000624895	9.52E-05	5.15E-05
1179	258135.3	4084231	0.000594073	9.05E-05	4.90E-05
1180	258110.9	4084232	0.000564584	8.60E-05	4.65E-05
1181	258086.6	4084233	0.000536725	8.18E-05	4.42E-05
1182	258062.3	4084234	0.0005102	7.77E-05	4.21E-05
1183	258037.9	4084235	0.000485305	7.39E-05	4.00E-05
1184	258013.6	4084236	0.000461892	7.04E-05	3.81E-05
1185	257989.3	4084237	0.000440109	6.70E-05	3.63E-05
1186	257965	4084238	0.000419808	6.40E-05	3.46E-05
1187	257940.6	4084239	0.00040084	6.11E-05	3.30E-05
1188	257916.3	4084240	0.000383206	5.84E-05	3.16E-05
1189	257892	4084241	0.000366906	5.59E-05	3.02E-05
1190	257867.6	4084242	0.000351791	5.36E-05	2.90E-05
1191	257843.3	4084243	0.000337861	5.15E-05	2.78E-05
1192	257819	4084244	0.000325118	4.95E-05	2.68E-05
1193	257794.6	4084245	0.000313115	4.77E-05	2.58E-05
1194	257770.3	4084246	0.000302001	4.60E-05	2.49E-05
1195	257746	4084247	0.000291628	4.44E-05	2.40E-05
1196	257721.6	4084248	0.000281848	4.29E-05	2.32E-05
1197	257697.3	4084249	0.00027266	4.15E-05	2.25E-05
1198	257673	4084250	0.000264214	4.03E-05	2.18E-05
1199	257648.6	4084251	0.000256063	3.90E-05	2.11E-05
1200	257624.3	4084252	0.000248506	3.79E-05	2.05E-05
1201	257600	4084253	0.000241245	3.68E-05	1.99E-05
1202	257575.6	4084254	0.000234428	3.57E-05	1.93E-05
1203	257551.3	4084255	0.000228056	3.47E-05	1.88E-05
1204	257527	4084256	0.000221981	3.38E-05	1.83E-05
1205	258344.2	4084031	0.000470487	7.17E-05	3.88E-05
1206	258366.6	4084039	0.000501013	7.63E-05	4.13E-05
1207	258389	4084048	0.000533762	8.13E-05	4.40E-05
1208	258411.5	4084056	0.000568585	8.66E-05	4.69E-05
1209	258433.9	4084064	0.000605483	9.22E-05	4.99E-05
1210	258456.3	4084073	0.000644308	9.82E-05	5.31E-05
1211	258478.8	4084081	0.00068491	1.04E-04	5.65E-05
1212	258501.2	4084089	0.000727143	1.11E-04	5.99E-05
1213	258523.6	4084098	0.000770857	1.17E-04	6.35E-05
1214	258546.1	4084106	0.000815757	1.24E-04	6.72E-05

1215	258568.5	4084114	0.000861547	1.31E-04	7.10E-05
1216	258590.9	4084123	0.000908077	1.38E-04	7.49E-05
1217	258613.4	4084131	0.000954903	1.45E-04	7.87E-05
1218	258635.8	4084139	0.001001878	1.53E-04	8.26E-05
1219	258658.2	4084147	0.001048556	1.60E-04	8.64E-05
1220	258680.7	4084156	0.001094641	1.67E-04	9.02E-05
1221	258703.1	4084164	0.001139838	1.74E-04	9.40E-05
1222	258725.5	4084172	0.001183848	1.80E-04	9.76E-05
1223	258748	4084181	0.001226378	1.87E-04	1.01E-04
1224	258770.4	4084189	0.001266832	1.93E-04	1.04E-04
1225	258792.9	4084197	0.001305212	1.99E-04	1.08E-04
1226	258815.3	4084206	0.001340924	2.04E-04	1.11E-04
1227	258837.7	4084214	0.001373525	2.09E-04	1.13E-04
1228	258860.2	4084222	0.001402273	2.14E-04	1.16E-04
1229	258882.6	4084230	0.001426279	2.17E-04	1.18E-04
1230	258905	4084239	0.001447469	2.21E-04	1.19E-04
1231	258927.5	4084247	0.001463029	2.23E-04	1.21E-04
1232	258949.9	4084255	0.00147355	2.24E-04	1.21E-04
1233	258982.2	4084286	0.001523784	2.32E-04	1.26E-04
1234	258992.1	4084307	0.001563794	2.38E-04	1.29E-04
1235	259001.9	4084329	0.001597136	2.43E-04	1.32E-04
1236	259011.8	4084351	0.001625291	2.48E-04	1.34E-04
1237	259021.6	4084373	0.001647222	2.51E-04	1.36E-04
1238	259031.5	4084394	0.001661893	2.53E-04	1.37E-04
1239	259041.4	4084416	0.00166945	2.54E-04	1.38E-04
1240	259051.2	4084438	0.001669302	2.54E-04	1.38E-04
1241	259061.1	4084460	0.001661596	2.53E-04	1.37E-04
1242	259070.9	4084482	0.001646926	2.51E-04	1.36E-04
1243	259080.8	4084503	0.001625439	2.48E-04	1.34E-04
1244	259090.7	4084525	0.001597432	2.43E-04	1.32E-04
1245	259100.5	4084547	0.001563646	2.38E-04	1.29E-04
1246	259110.4	4084569	0.001524525	2.32E-04	1.26E-04
1247	259120.2	4084591	0.001481107	2.26E-04	1.22E-04
1248	259130.1	4084612	0.001433984	2.18E-04	1.18E-04
1249	259140	4084634	0.001383898	2.11E-04	1.14E-04
1250	259149.8	4084656	0.001331589	2.03E-04	1.10E-04
1251	259159.7	4084678	0.001279724	1.95E-04	1.05E-04
1252	259169.6	4084700	0.001224748	1.87E-04	1.01E-04
1253	259179.4	4084721	0.001166511	1.78E-04	9.62E-05
1254	259189.3	4084743	0.001110645	1.69E-04	9.16E-05
1255	259199.1	4084765	0.001056854	1.61E-04	8.71E-05
1256	259209	4084787	0.001001285	1.53E-04	8.25E-05
1257	259218.9	4084809	0.000950606	1.45E-04	7.84E-05
1258	259228.7	4084830	0.000903186	1.38E-04	7.44E-05
1259	259238.6	4084852	0.000858583	1.31E-04	7.08E-05
1260	259248.4	4084874	0.000816498	1.24E-04	6.73E-05
1261	258321.7	4084023	0.000442035	6.73E-05	3.64E-05

1262	258297.4	4084024	0.000425142	6.48E-05	3.50E-05
1263	258273.1	4084025	0.000409138	6.23E-05	3.37E-05
1264	258248.7	4084026	0.000393579	6.00E-05	3.24E-05
1265	258224.4	4084027	0.000378612	5.77E-05	3.12E-05
1266	258200.1	4084028	0.00036409	5.55E-05	3.00E-05
1267	258175.7	4084029	0.000350161	5.33E-05	2.89E-05
1268	258151.4	4084030	0.000336528	5.13E-05	2.77E-05
1269	258127.1	4084031	0.000323487	4.93E-05	2.67E-05
1270	258102.7	4084032	0.000310892	4.74E-05	2.56E-05
1271	258078.4	4084033	0.000298741	4.55E-05	2.46E-05
1272	258054.1	4084034	0.000287034	4.37E-05	2.37E-05
1273	258029.7	4084035	0.00027592	4.20E-05	2.27E-05
1274	258005.4	4084036	0.000265399	4.04E-05	2.19E-05
1275	257981.1	4084037	0.000255619	3.89E-05	2.11E-05
1276	257956.7	4084038	0.000246283	3.75E-05	2.03E-05
1277	257932.4	4084039	0.000237688	3.62E-05	1.96E-05
1278	257908.1	4084040	0.000229835	3.50E-05	1.89E-05
1279	257883.7	4084041	0.000222574	3.39E-05	1.83E-05
1280	257859.4	4084042	0.000215905	3.29E-05	1.78E-05
1281	257835.1	4084043	0.00020983	3.20E-05	1.73E-05
1282	257810.7	4084044	0.000204199	3.11E-05	1.68E-05
1283	257786.4	4084045	0.00019916	3.03E-05	1.64E-05
1284	257762.1	4084046	0.000194567	2.96E-05	1.60E-05
1285	257737.8	4084047	0.000190418	2.90E-05	1.57E-05
1286	257713.4	4084048	0.000186417	2.84E-05	1.54E-05
1287	257689.1	4084049	0.00018286	2.79E-05	1.51E-05
1288	257664.8	4084050	0.000179304	2.73E-05	1.48E-05
1289	257640.4	4084051	0.000175895	2.68E-05	1.45E-05
1290	257616.1	4084052	0.000172487	2.63E-05	1.42E-05
1291	257591.8	4084053	0.000169079	2.58E-05	1.39E-05
1292	257567.4	4084054	0.000165522	2.52E-05	1.36E-05
1293	257543.1	4084055	0.000161966	2.47E-05	1.34E-05
1294	257518.8	4084056	0.00015841	2.41E-05	1.31E-05
1295	258336.2	4083831	0.000279625	4.26E-05	2.30E-05
1296	258358.9	4083840	0.000294147	4.48E-05	2.42E-05
1297	258381.7	4083848	0.000309855	4.72E-05	2.55E-05
1298	258404.4	4083857	0.000326896	4.98E-05	2.69E-05
1299	258427.1	4083865	0.000345271	5.26E-05	2.85E-05
1300	258449.8	4083873	0.000365127	5.56E-05	3.01E-05
1301	258472.5	4083882	0.000386466	5.89E-05	3.19E-05
1302	258495.3	4083890	0.00040899	6.23E-05	3.37E-05
1303	258518	4083899	0.000432848	6.59E-05	3.57E-05
1304	258540.7	4083907	0.000457891	6.98E-05	3.77E-05
1305	258563.4	4083916	0.000484268	7.38E-05	3.99E-05
1306	258586.1	4083924	0.000511682	7.80E-05	4.22E-05
1307	258608.9	4083932	0.000540134	8.23E-05	4.45E-05
1308	258631.6	4083941	0.000569622	8.68E-05	4.70E-05

1309	258654.3	4083949	0.000599852	9.14E-05	4.94E-05
1310	258677	4083958	0.000630823	9.61E-05	5.20E-05
1311	258699.7	4083966	0.000662386	1.01E-04	5.46E-05
1312	258722.5	4083974	0.000694246	1.06E-04	5.72E-05
1313	258745.2	4083983	0.000726402	1.11E-04	5.99E-05
1314	258767.9	4083991	0.00075841	1.16E-04	6.25E-05
1315	258790.6	4084000	0.00079027	1.20E-04	6.51E-05
1316	258813.3	4084008	0.000821685	1.25E-04	6.77E-05
1317	258836.1	4084016	0.000852507	1.30E-04	7.03E-05
1318	258858.8	4084025	0.000882737	1.34E-04	7.28E-05
1319	258881.5	4084033	0.000911929	1.39E-04	7.52E-05
1320	258904.2	4084042	0.000939788	1.43E-04	7.75E-05
1321	258926.9	4084050	0.000966017	1.47E-04	7.96E-05
1322	258949.7	4084059	0.000988245	1.51E-04	8.15E-05
1323	258972.4	4084067	0.001010324	1.54E-04	8.33E-05
1324	258995.1	4084075	0.001030477	1.57E-04	8.49E-05
1325	259017.8	4084084	0.001048408	1.60E-04	8.64E-05
1326	259040.5	4084092	0.001063671	1.62E-04	8.77E-05
1327	259063.3	4084101	0.00107597	1.64E-04	8.87E-05
1328	259086	4084109	0.001085454	1.65E-04	8.95E-05
1329	259118.7	4084139	0.001123834	1.71E-04	9.26E-05
1330	259128.7	4084162	0.001153322	1.76E-04	9.51E-05
1331	259138.7	4084184	0.001179699	1.80E-04	9.72E-05
1332	259148.6	4084206	0.001202816	1.83E-04	9.91E-05
1333	259158.6	4084228	0.00122208	1.86E-04	1.01E-04
1334	259168.6	4084250	0.001237195	1.88E-04	1.02E-04
1335	259178.6	4084272	0.001247864	1.90E-04	1.03E-04
1336	259188.6	4084294	0.001254088	1.91E-04	1.03E-04
1337	259198.6	4084316	0.00125557	1.91E-04	1.03E-04
1338	259208.6	4084338	0.001252458	1.91E-04	1.03E-04
1339	259218.5	4084360	0.001245197	1.90E-04	1.03E-04
1340	259228.5	4084382	0.001233639	1.88E-04	1.02E-04
1341	259238.5	4084404	0.001218079	1.86E-04	1.00E-04
1342	259248.5	4084426	0.001203853	1.83E-04	9.92E-05
1343	259258.5	4084449	0.001181922	1.80E-04	9.74E-05
1344	259268.5	4084471	0.001157323	1.76E-04	9.54E-05
1345	259278.5	4084493	0.00113065	1.72E-04	9.32E-05
1346	259288.5	4084515	0.001102347	1.68E-04	9.09E-05
1347	259298.4	4084537	0.001072858	1.63E-04	8.84E-05
1348	259308.4	4084559	0.001042184	1.59E-04	8.59E-05
1349	259318.4	4084581	0.001010472	1.54E-04	8.33E-05
1350	259328.4	4084603	0.000977575	1.49E-04	8.06E-05
1351	259338.4	4084625	0.000943345	1.44E-04	7.78E-05
1352	259348.4	4084647	0.000908077	1.38E-04	7.49E-05
1353	259358.4	4084669	0.000871771	1.33E-04	7.19E-05
1354	259368.3	4084691	0.00083517	1.27E-04	6.88E-05
1355	259378.3	4084713	0.000799161	1.22E-04	6.59E-05

1356	259388.3	4084735	0.000764337	1.16E-04	6.30E-05
1357	259398.3	4084758	0.000731292	1.11E-04	6.03E-05
1358	259408.3	4084780	0.00070047	1.07E-04	5.77E-05
1359	259418.3	4084802	0.00067187	1.02E-04	5.54E-05
1360	259428.3	4084824	0.0006449	9.82E-05	5.32E-05
1361	259438.2	4084846	0.000619264	9.43E-05	5.10E-05
1362	259448.2	4084868	0.000594369	9.05E-05	4.90E-05
1363	258313.5	4083823	0.000266436	4.06E-05	2.20E-05
1364	258289.2	4083824	0.000258583	3.94E-05	2.13E-05
1365	258264.8	4083825	0.000251025	3.82E-05	2.07E-05
1366	258240.5	4083826	0.000243764	3.71E-05	2.01E-05
1367	258216.2	4083827	0.000236651	3.61E-05	1.95E-05
1368	258191.8	4083828	0.000229538	3.50E-05	1.89E-05
1369	258167.5	4083829	0.000222722	3.39E-05	1.84E-05
1370	258143.2	4083830	0.000215905	3.29E-05	1.78E-05
1371	258118.8	4083831	0.000209237	3.19E-05	1.72E-05
1372	258094.5	4083832	0.000202569	3.09E-05	1.67E-05
1373	258070.2	4083833	0.000196197	2.99E-05	1.62E-05
1374	258045.9	4083834	0.000190121	2.90E-05	1.57E-05
1375	258021.5	4083835	0.000184194	2.81E-05	1.52E-05
1376	257997.2	4083836	0.000178563	2.72E-05	1.47E-05
1377	257972.9	4083837	0.00017308	2.64E-05	1.43E-05
1378	257948.5	4083838	0.00016819	2.56E-05	1.39E-05
1379	257924.2	4083839	0.000163448	2.49E-05	1.35E-05
1380	257899.9	4083840	0.000159151	2.42E-05	1.31E-05
1381	257875.5	4083841	0.000155001	2.36E-05	1.28E-05
1382	257851.2	4083842	0.000151297	2.30E-05	1.25E-05
1383	257826.9	4083843	0.000147888	2.25E-05	1.22E-05
1384	257802.5	4083844	0.000144777	2.21E-05	1.19E-05
1385	257778.2	4083845	0.000141961	2.16E-05	1.17E-05
1386	257753.9	4083846	0.000139442	2.12E-05	1.15E-05
1387	257729.5	4083847	0.000137071	2.09E-05	1.13E-05
1388	257705.2	4083848	0.000134848	2.05E-05	1.11E-05
1389	257680.9	4083849	0.000132922	2.02E-05	1.10E-05
1390	257656.5	4083850	0.000130995	2.00E-05	1.08E-05
1391	257632.2	4083851	0.000129365	1.97E-05	1.07E-05
1392	257607.9	4083852	0.000127587	1.94E-05	1.05E-05
1393	257583.5	4083853	0.000125957	1.92E-05	1.04E-05
1394	257559.2	4083854	0.000124327	1.89E-05	1.02E-05
1395	257534.9	4083855	0.000122549	1.87E-05	1.01E-05
1396	257510.6	4083856	0.000120919	1.84E-05	9.97E-06
1397	258327.7	4083631	0.00018938	2.89E-05	1.56E-05
1398	258350	4083640	0.000196789	3.00E-05	1.62E-05
1399	258372.4	4083648	0.000204643	3.12E-05	1.69E-05
1400	258394.8	4083656	0.00021309	3.25E-05	1.76E-05
1401	258417.2	4083665	0.000222277	3.39E-05	1.83E-05
1402	258439.5	4083673	0.000232057	3.54E-05	1.91E-05

1403	258461.9	4083681	0.000242579	3.70E-05	2.00E-05
1404	258484.3	4083689	0.000253841	3.87E-05	2.09E-05
1405	258506.7	4083698	0.00026614	4.05E-05	2.19E-05
1406	258529	4083706	0.00027918	4.25E-05	2.30E-05
1407	258551.4	4083714	0.00029311	4.47E-05	2.42E-05
1408	258573.8	4083723	0.000307928	4.69E-05	2.54E-05
1409	258596.2	4083731	0.000323636	4.93E-05	2.67E-05
1410	258618.5	4083739	0.000340084	5.18E-05	2.80E-05
1411	258640.9	4083747	0.000357422	5.45E-05	2.95E-05
1412	258663.3	4083756	0.000375352	5.72E-05	3.09E-05
1413	258685.7	4083764	0.000394172	6.00E-05	3.25E-05
1414	258708	4083772	0.000413584	6.30E-05	3.41E-05
1415	258730.4	4083781	0.000433589	6.61E-05	3.57E-05
1416	258752.8	4083789	0.000454335	6.92E-05	3.75E-05
1417	258775.2	4083797	0.000475377	7.24E-05	3.92E-05
1418	258797.6	4083805	0.000497012	7.57E-05	4.10E-05
1419	258819.9	4083814	0.000519091	7.91E-05	4.28E-05
1420	258842.3	4083822	0.000541319	8.25E-05	4.46E-05
1421	258864.7	4083830	0.000563695	8.59E-05	4.65E-05
1422	258887.1	4083839	0.000586219	8.93E-05	4.83E-05
1423	258909.4	4083847	0.000608595	9.27E-05	5.02E-05
1424	258931.8	4083855	0.000630971	9.61E-05	5.20E-05
1425	258954.2	4083863	0.000653051	9.95E-05	5.38E-05
1426	258976.6	4083872	0.000674834	1.03E-04	5.56E-05
1427	258998.9	4083880	0.000696024	1.06E-04	5.74E-05
1428	259021.3	4083888	0.000716474	1.09E-04	5.91E-05
1429	259043.7	4083897	0.000736182	1.12E-04	6.07E-05
1430	259066.1	4083905	0.000754409	1.15E-04	6.22E-05
1431	259088.4	4083913	0.000771598	1.18E-04	6.36E-05
1432	259110.8	4083921	0.000787454	1.20E-04	6.49E-05
1433	259133.2	4083930	0.000801976	1.22E-04	6.61E-05
1434	259155.6	4083938	0.00081472	1.24E-04	6.72E-05
1435	259177.9	4083946	0.000825389	1.26E-04	6.80E-05
1436	259200.3	4083955	0.000834873	1.27E-04	6.88E-05
1437	259222.7	4083963	0.000842727	1.28E-04	6.95E-05
1438	259254.9	4083993	0.000871475	1.33E-04	7.18E-05
1439	259264.7	4084015	0.000892517	1.36E-04	7.36E-05
1440	259274.6	4084036	0.000912522	1.39E-04	7.52E-05
1441	259284.4	4084058	0.000930749	1.42E-04	7.67E-05
1442	259294.2	4084080	0.000946901	1.44E-04	7.81E-05
1443	259304.1	4084102	0.00096083	1.46E-04	7.92E-05
1444	259313.9	4084123	0.000972389	1.48E-04	8.02E-05
1445	259323.7	4084145	0.00098128	1.49E-04	8.09E-05
1446	259333.6	4084167	0.000987355	1.50E-04	8.14E-05
1447	259343.4	4084188	0.000990764	1.51E-04	8.17E-05
1448	259353.3	4084210	0.000991208	1.51E-04	8.17E-05
1449	259363.1	4084232	0.000988837	1.51E-04	8.15E-05

1450	259372.9	4084254	0.000983651	1.50E-04	8.11E-05
1451	259382.8	4084275	0.000975945	1.49E-04	8.04E-05
1452	259392.6	4084297	0.000965572	1.47E-04	7.96E-05
1453	259402.4	4084319	0.000953125	1.45E-04	7.86E-05
1454	259412.3	4084341	0.000938603	1.43E-04	7.74E-05
1455	259422.1	4084362	0.00092245	1.41E-04	7.60E-05
1456	259431.9	4084384	0.000905113	1.38E-04	7.46E-05
1457	259441.8	4084406	0.000890294	1.36E-04	7.34E-05
1458	259451.6	4084428	0.000871623	1.33E-04	7.18E-05
1459	259461.4	4084449	0.000852655	1.30E-04	7.03E-05
1460	259471.3	4084471	0.00083354	1.27E-04	6.87E-05
1461	259481.1	4084493	0.000814127	1.24E-04	6.71E-05
1462	259490.9	4084515	0.000794567	1.21E-04	6.55E-05
1463	259500.8	4084536	0.000774266	1.18E-04	6.38E-05
1464	259510.6	4084558	0.000753075	1.15E-04	6.21E-05
1465	259520.4	4084580	0.000730551	1.11E-04	6.02E-05
1466	259530.3	4084602	0.000706842	1.08E-04	5.83E-05
1467	259540.1	4084623	0.000682095	1.04E-04	5.62E-05
1468	259549.9	4084645	0.000656755	1.00E-04	5.41E-05
1469	259559.8	4084667	0.000631564	9.62E-05	5.21E-05
1470	259569.6	4084688	0.000607261	9.25E-05	5.01E-05
1471	259579.5	4084710	0.000584441	8.90E-05	4.82E-05
1472	259589.3	4084732	0.000563399	8.58E-05	4.64E-05
1473	259599.1	4084754	0.000544135	8.29E-05	4.49E-05
1474	259609	4084775	0.000526352	8.02E-05	4.34E-05
1475	259618.8	4084797	0.000509756	7.77E-05	4.20E-05
1476	259628.6	4084819	0.000493604	7.52E-05	4.07E-05
1477	259638.5	4084841	0.0004776	7.28E-05	3.94E-05
1478	259648.3	4084862	0.000461596	7.03E-05	3.80E-05
1479	258305.3	4083623	0.000182416	2.78E-05	1.50E-05
1480	258281	4083624	0.000178118	2.71E-05	1.47E-05
1481	258256.6	4083625	0.000173969	2.65E-05	1.43E-05
1482	258232.3	4083626	0.000169968	2.59E-05	1.40E-05
1483	258208	4083627	0.000165967	2.53E-05	1.37E-05
1484	258183.6	4083628	0.000162114	2.47E-05	1.34E-05
1485	258159.3	4083629	0.000158261	2.41E-05	1.30E-05
1486	258135	4083630	0.000154409	2.35E-05	1.27E-05
1487	258110.6	4083631	0.000150556	2.29E-05	1.24E-05
1488	258086.3	4083632	0.000146851	2.24E-05	1.21E-05
1489	258062	4083633	0.000143295	2.18E-05	1.18E-05
1490	258037.6	4083634	0.000139738	2.13E-05	1.15E-05
1491	258013.3	4083635	0.000136182	2.07E-05	1.12E-05
1492	257989	4083636	0.000132922	2.02E-05	1.10E-05
1493	257964.6	4083637	0.000129662	1.98E-05	1.07E-05
1494	257940.3	4083638	0.000126698	1.93E-05	1.04E-05
1495	257916	4083639	0.000123734	1.89E-05	1.02E-05
1496	257891.6	4083640	0.000120919	1.84E-05	9.97E-06

1497	257867.3	4083641	0.0001184	1.80E-05	9.76E-06
1498	257843	4083642	0.000115881	1.77E-05	9.55E-06
1499	257818.6	4083643	0.000113658	1.73E-05	9.37E-06
1500	257794.3	4083644	0.000111583	1.70E-05	9.20E-06
1501	257770	4083645	0.000109657	1.67E-05	9.04E-06
1502	257745.7	4083646	0.00010773	1.64E-05	8.88E-06
1503	257721.3	4083647	0.0001061	1.62E-05	8.75E-06
1504	257697	4083648	0.000104619	1.59E-05	8.62E-06
1505	257672.7	4083649	0.000103137	1.57E-05	8.50E-06
1506	257648.3	4083650	0.000101803	1.55E-05	8.39E-06
1507	257624	4083651	0.000100469	1.53E-05	8.28E-06
1508	257599.7	4083652	9.92838E-05	1.51E-05	8.18E-06
1509	257575.3	4083653	9.80984E-05	1.49E-05	8.09E-06
1510	257551	4083654	9.69129E-05	1.48E-05	7.99E-06
1511	257526.7	4083655	9.58756E-05	1.46E-05	7.90E-06
1512	257502.3	4083656	9.46901E-05	1.44E-05	7.81E-06
1513	258319.7	4083432	0.000139738	2.13E-05	1.15E-05
1514	258342.3	4083440	0.000144332	2.20E-05	1.19E-05
1515	258364.8	4083448	0.000149074	2.27E-05	1.23E-05
1516	258387.4	4083457	0.000154112	2.35E-05	1.27E-05
1517	258410	4083465	0.000159447	2.43E-05	1.31E-05
1518	258432.6	4083474	0.000165226	2.52E-05	1.36E-05
1519	258455.2	4083482	0.000171154	2.61E-05	1.41E-05
1520	258477.8	4083490	0.000177525	2.70E-05	1.46E-05
1521	258500.4	4083499	0.000184194	2.81E-05	1.52E-05
1522	258523	4083507	0.000191455	2.92E-05	1.58E-05
1523	258545.6	4083515	0.00019916	3.03E-05	1.64E-05
1524	258568.2	4083524	0.000207311	3.16E-05	1.71E-05
1525	258590.8	4083532	0.000216054	3.29E-05	1.78E-05
1526	258613.3	4083540	0.000225389	3.43E-05	1.86E-05
1527	258635.9	4083549	0.000235318	3.58E-05	1.94E-05
1528	258658.5	4083557	0.000245987	3.75E-05	2.03E-05
1529	258681.1	4083566	0.000257249	3.92E-05	2.12E-05
1530	258703.7	4083574	0.000268955	4.10E-05	2.22E-05
1531	258726.3	4083582	0.000281403	4.29E-05	2.32E-05
1532	258748.9	4083591	0.000294295	4.48E-05	2.43E-05
1533	258771.5	4083599	0.000307632	4.69E-05	2.54E-05
1534	258794.1	4083607	0.000321561	4.90E-05	2.65E-05
1535	258816.7	4083616	0.000335935	5.12E-05	2.77E-05
1536	258839.3	4083624	0.000350754	5.34E-05	2.89E-05
1537	258861.8	4083632	0.000365868	5.57E-05	3.02E-05
1538	258884.4	4083641	0.000381428	5.81E-05	3.14E-05
1539	258907	4083649	0.000397284	6.05E-05	3.27E-05
1540	258929.6	4083658	0.000413584	6.30E-05	3.41E-05
1541	258952.2	4083666	0.000430032	6.55E-05	3.54E-05
1542	258974.8	4083674	0.000446777	6.81E-05	3.68E-05
1543	258997.4	4083683	0.00046367	7.06E-05	3.82E-05

1544	259020	4083691	0.000480712	7.32E-05	3.96E-05
1545	259042.6	4083699	0.000497753	7.58E-05	4.10E-05
1546	259065.2	4083708	0.000514646	7.84E-05	4.24E-05
1547	259087.8	4083716	0.000531391	8.10E-05	4.38E-05
1548	259110.3	4083724	0.000547987	8.35E-05	4.52E-05
1549	259132.9	4083733	0.00056414	8.59E-05	4.65E-05
1550	259155.5	4083741	0.000579699	8.83E-05	4.78E-05
1551	259178.1	4083750	0.000594666	9.06E-05	4.90E-05
1552	259200.7	4083758	0.000608891	9.28E-05	5.02E-05
1553	259223.3	4083766	0.00062208	9.48E-05	5.13E-05
1554	259245.9	4083775	0.000634379	9.66E-05	5.23E-05
1555	259268.5	4083783	0.000645345	9.83E-05	5.32E-05
1556	259291.1	4083791	0.000655421	9.98E-05	5.40E-05
1557	259313.7	4083800	0.000664164	1.01E-04	5.47E-05
1558	259336.3	4083808	0.000671722	1.02E-04	5.54E-05
1559	259358.8	4083816	0.000678242	1.03E-04	5.59E-05
1560	259391.4	4083847	0.000700618	1.07E-04	5.78E-05
1561	259401.3	4083869	0.000717215	1.09E-04	5.91E-05
1562	259411.2	4083891	0.000732922	1.12E-04	6.04E-05
1563	259421.2	4083913	0.000747444	1.14E-04	6.16E-05
1564	259431.1	4083935	0.000760781	1.16E-04	6.27E-05
1565	259441	4083956	0.000772932	1.18E-04	6.37E-05
1566	259450.9	4083978	0.000783453	1.19E-04	6.46E-05
1567	259460.9	4084000	0.000792492	1.21E-04	6.53E-05
1568	259470.8	4084022	0.000799902	1.22E-04	6.59E-05
1569	259480.7	4084044	0.000805533	1.23E-04	6.64E-05
1570	259490.7	4084066	0.000809237	1.23E-04	6.67E-05
1571	259500.6	4084088	0.000811016	1.24E-04	6.69E-05
1572	259510.5	4084110	0.000810867	1.24E-04	6.68E-05
1573	259520.4	4084132	0.000808793	1.23E-04	6.67E-05
1574	259530.4	4084154	0.000804644	1.23E-04	6.63E-05
1575	259540.3	4084176	0.000798716	1.22E-04	6.58E-05
1576	259550.2	4084198	0.000790862	1.20E-04	6.52E-05
1577	259560.2	4084220	0.000781527	1.19E-04	6.44E-05
1578	259570.1	4084242	0.000770709	1.17E-04	6.35E-05
1579	259580	4084264	0.000758558	1.16E-04	6.25E-05
1580	259590	4084286	0.000745814	1.14E-04	6.15E-05
1581	259599.9	4084308	0.000732329	1.12E-04	6.04E-05
1582	259609.8	4084330	0.000718696	1.09E-04	5.92E-05
1583	259619.7	4084352	0.000705212	1.07E-04	5.81E-05
1584	259629.7	4084374	0.000691875	1.05E-04	5.70E-05
1585	259639.6	4084395	0.000678983	1.03E-04	5.60E-05
1586	259649.5	4084417	0.00066861	1.02E-04	5.51E-05
1587	259659.5	4084439	0.000655866	9.99E-05	5.41E-05
1588	259669.4	4084461	0.000642974	9.80E-05	5.30E-05
1589	259679.3	4084483	0.000629045	9.58E-05	5.19E-05
1590	259689.2	4084505	0.000614374	9.36E-05	5.06E-05

1591	259699.2	4084527	0.000598519	9.12E-05	4.93E-05
1592	259709.1	4084549	0.000581329	8.86E-05	4.79E-05
1593	259719	4084571	0.000563102	8.58E-05	4.64E-05
1594	259729	4084593	0.000544135	8.29E-05	4.49E-05
1595	259738.9	4084615	0.000525167	8.00E-05	4.33E-05
1596	259748.8	4084637	0.000506496	7.72E-05	4.18E-05
1597	259758.8	4084659	0.00048901	7.45E-05	4.03E-05
1598	259768.7	4084681	0.000472858	7.20E-05	3.90E-05
1599	259778.6	4084703	0.000458336	6.98E-05	3.78E-05
1600	259788.5	4084725	0.000445295	6.78E-05	3.67E-05
1601	259798.5	4084747	0.000433292	6.60E-05	3.57E-05
1602	259808.4	4084769	0.00042203	6.43E-05	3.48E-05
1603	259818.3	4084791	0.000411065	6.26E-05	3.39E-05
1604	259828.3	4084812	0.000399951	6.09E-05	3.30E-05
1605	259838.2	4084834	0.000388541	5.92E-05	3.20E-05
1606	259848.1	4084856	0.000376686	5.74E-05	3.11E-05
1607	258297.1	4083423	0.000135589	2.07E-05	1.12E-05
1608	258272.7	4083424	0.000132922	2.02E-05	1.10E-05
1609	258248.4	4083425	0.000130403	1.99E-05	1.07E-05
1610	258224.1	4083426	0.000128032	1.95E-05	1.06E-05
1611	258199.7	4083427	0.000125661	1.91E-05	1.04E-05
1612	258175.4	4083428	0.000123438	1.88E-05	1.02E-05
1613	258151.1	4083429	0.000121215	1.85E-05	9.99E-06
1614	258126.7	4083430	0.000118992	1.81E-05	9.81E-06
1615	258102.4	4083431	0.00011677	1.78E-05	9.63E-06
1616	258078.1	4083432	0.000114547	1.75E-05	9.44E-06
1617	258053.8	4083433	0.000112472	1.71E-05	9.27E-06
1618	258029.4	4083434	0.00011025	1.68E-05	9.09E-06
1619	258005.1	4083435	0.000108175	1.65E-05	8.92E-06
1620	257980.8	4083436	0.000105952	1.61E-05	8.73E-06
1621	257956.4	4083437	0.000103878	1.58E-05	8.56E-06
1622	257932.1	4083438	0.000101951	1.55E-05	8.40E-06
1623	257907.8	4083439	9.98766E-05	1.52E-05	8.23E-06
1624	257883.4	4083440	9.79502E-05	1.49E-05	8.07E-06
1625	257859.1	4083441	9.6172E-05	1.47E-05	7.93E-06
1626	257834.8	4083442	9.43937E-05	1.44E-05	7.78E-06
1627	257810.4	4083443	9.27637E-05	1.41E-05	7.65E-06
1628	257786.1	4083444	9.11337E-05	1.39E-05	7.51E-06
1629	257761.8	4083445	8.96518E-05	1.37E-05	7.39E-06
1630	257737.4	4083446	8.817E-05	1.34E-05	7.27E-06
1631	257713.1	4083447	8.68363E-05	1.32E-05	7.16E-06
1632	257688.8	4083448	8.55026E-05	1.30E-05	7.05E-06
1633	257664.4	4083449	8.43172E-05	1.28E-05	6.95E-06
1634	257640.1	4083450	8.31317E-05	1.27E-05	6.85E-06
1635	257615.8	4083451	8.19462E-05	1.25E-05	6.75E-06
1636	257591.4	4083452	8.09089E-05	1.23E-05	6.67E-06
1637	257567.1	4083453	7.98716E-05	1.22E-05	6.58E-06

1638	257542.8	4083454	7.88343E-05	1.20E-05	6.50E-06
1639	257518.5	4083455	7.7797E-05	1.19E-05	6.41E-06
1640	257494.1	4083456	7.69079E-05	1.17E-05	6.34E-06
1641	257530.8	4084956	0.005880714	8.96E-04	4.85E-04
1642	257532.4	4085001	0.01557674	2.37E-03	1.28E-03
1643	257534.1	4085045	0.02475739	3.77E-03	2.04E-03
1644	257534.9	4085067	0.02767781	4.22E-03	2.28E-03
1645	257536.5	4085112	0.03112311	4.74E-03	2.57E-03
1646	257538.2	4085157	0.0301036	4.59E-03	2.48E-03
1647	257512.4	4084939	0.003679133	5.60E-04	3.03E-04
1648	257506.6	4084979	0.006169379	9.40E-04	5.09E-04
1649	257508.2	4085024	0.01177358	1.79E-03	9.70E-04
1650	257509.9	4085068	0.01678934	2.56E-03	1.38E-03
1651	257511.5	4085113	0.01984595	3.02E-03	1.64E-03
1652	257513.2	4085157	0.02037186	3.10E-03	1.68E-03
1653	257487.4	4084940	0.003034825	4.62E-04	2.50E-04
1654	257518	4084896	0.002431564	3.70E-04	2.00E-04
1655	257481.6	4084980	0.004553571	6.94E-04	3.75E-04
1656	257483.3	4085025	0.007734358	1.18E-03	6.38E-04
1657	257484.9	4085069	0.01127657	1.72E-03	9.30E-04
1658	257486.6	4085114	0.01383691	2.11E-03	1.14E-03
1659	257488.2	4085158	0.01485049	2.26E-03	1.22E-03
1660	257462.4	4084941	0.002573822	3.92E-04	2.12E-04
1661	257475.7	4084905	0.002056805	3.13E-04	1.70E-04
1662	257499.6	4084879	0.001906101	2.90E-04	1.57E-04
1663	257456.6	4084981	0.00361319	5.50E-04	2.98E-04
1664	257458.3	4085026	0.005604794	8.54E-04	4.62E-04
1665	257459.1	4085048	0.006844657	1.04E-03	5.64E-04
1666	257460.8	4085092	0.009228801	1.41E-03	7.61E-04
1667	257462.4	4085137	0.01087691	1.66E-03	8.97E-04
1668	257412.5	4084943	0.001958114	2.98E-04	1.61E-04
1669	257425.7	4084907	0.001629737	2.48E-04	1.34E-04
1670	257439	4084871	0.001380341	2.10E-04	1.14E-04
1671	257462.9	4084845	0.001300914	1.98E-04	1.07E-04
1672	257497.6	4084829	0.001349519	2.06E-04	1.11E-04
1673	257406.7	4084983	0.002543148	3.87E-04	2.10E-04
1674	257408.3	4085027	0.003514796	5.35E-04	2.90E-04
1675	257410	4085072	0.00478311	7.29E-04	3.94E-04
1676	257411.6	4085117	0.006101361	9.30E-04	5.03E-04
1677	257413.3	4085161	0.007074047	1.08E-03	5.83E-04
1678	257363.4	4084942	0.001547494	2.36E-04	1.28E-04
1679	257378.6	4084901	0.001294098	1.97E-04	1.07E-04
1680	257393.7	4084860	0.001101902	1.68E-04	9.08E-05
1681	257428.7	4084810	0.000966461	1.47E-04	7.97E-05
1682	257468.3	4084792	0.000996247	1.52E-04	8.21E-05
1683	257507.9	4084774	0.001029736	1.57E-04	8.49E-05
1684	257356.7	4084985	0.001945519	2.96E-04	1.60E-04

1685	257358.3	4085029	0.002520772	3.84E-04	2.08E-04
1686	257360	4085074	0.003224205	4.91E-04	2.66E-04
1687	257361.7	4085118	0.004031516	6.14E-04	3.32E-04
1688	257363.3	4085163	0.004766661	7.26E-04	3.93E-04
1689	257313.3	4084944	0.001285651	1.96E-04	1.06E-04
1690	257328	4084905	0.001099828	1.68E-04	9.07E-05
1691	257342.7	4084865	0.000954755	1.45E-04	7.87E-05
1692	257357.5	4084825	0.000840208	1.28E-04	6.93E-05
1693	257391.4	4084776	0.000753372	1.15E-04	6.21E-05
1694	257429.9	4084759	0.000771006	1.17E-04	6.36E-05
1695	257468.5	4084741	0.000787899	1.20E-04	6.49E-05
1696	257507	4084723	0.000808793	1.23E-04	6.67E-05
1697	257306.7	4084987	0.001566314	2.39E-04	1.29E-04
1698	257307.6	4085009	0.001752434	2.67E-04	1.44E-04
1699	257309.2	4085053	0.002154459	3.28E-04	1.78E-04
1700	257310.9	4085098	0.002618129	3.99E-04	2.16E-04
1701	257312.5	4085143	0.003133368	4.77E-04	2.58E-04
1702	257263.2	4084947	0.00109642	1.67E-04	9.04E-05
1703	257277.6	4084908	0.000951347	1.45E-04	7.84E-05
1704	257292.1	4084869	0.000836207	1.27E-04	6.89E-05
1705	257306.6	4084829	0.000744777	1.13E-04	6.14E-05
1706	257321	4084790	0.000669203	1.02E-04	5.52E-05
1707	257354.4	4084743	0.000608891	9.28E-05	5.02E-05
1708	257392.2	4084725	0.000620005	9.45E-05	5.11E-05
1709	257430	4084708	0.00063023	9.60E-05	5.19E-05
1710	257467.8	4084690	0.000641048	9.77E-05	5.28E-05
1711	257505.6	4084673	0.000655718	9.99E-05	5.41E-05
1712	257256.8	4084988	0.001306101	1.99E-04	1.08E-04
1713	257258.4	4085033	0.001577279	2.40E-04	1.30E-04
1714	257260.1	4085078	0.001862239	2.84E-04	1.54E-04
1715	257261.7	4085122	0.002176094	3.32E-04	1.79E-04
1716	257263.4	4085167	0.002527292	3.85E-04	2.08E-04
1717	257163.6	4084949	0.00084006	1.28E-04	6.92E-05
1718	257178.7	4084909	0.000737516	1.12E-04	6.08E-05
1719	257193.9	4084868	0.000652902	9.95E-05	5.38E-05
1720	257209	4084827	0.000586516	8.94E-05	4.83E-05
1721	257224.2	4084786	0.00053228	8.11E-05	4.39E-05
1722	257239.3	4084745	0.000486343	7.41E-05	4.01E-05
1723	257254.5	4084704	0.000444554	6.77E-05	3.66E-05
1724	257281.9	4084674	0.000427513	6.51E-05	3.52E-05
1725	257321.5	4084656	0.000433292	6.60E-05	3.57E-05
1726	257361.1	4084638	0.000439072	6.69E-05	3.62E-05
1727	257400.7	4084619	0.000444554	6.77E-05	3.66E-05
1728	257440.3	4084601	0.000450482	6.86E-05	3.71E-05
1729	257479.9	4084583	0.00045878	6.99E-05	3.78E-05
1730	257156.8	4084992	0.000973574	1.48E-04	8.03E-05
1731	257158.5	4085037	0.001131391	1.72E-04	9.33E-05

1732	257160.1	4085081	0.00128002	1.95E-04	1.06E-04
1733	257161.8	4085126	0.001422722	2.17E-04	1.17E-04
1734	257162.6	4085148	0.001498445	2.28E-04	1.24E-04
1735	257063.4	4084954	0.00068165	1.04E-04	5.62E-05
1736	257078.2	4084914	0.000609336	9.28E-05	5.02E-05
1737	257092.9	4084874	0.000546357	8.32E-05	4.50E-05
1738	257107.6	4084834	0.000494196	7.53E-05	4.07E-05
1739	257122.4	4084795	0.000451667	6.88E-05	3.72E-05
1740	257137.1	4084755	0.000415807	6.33E-05	3.43E-05
1741	257151.8	4084715	0.000385281	5.87E-05	3.18E-05
1742	257166.6	4084675	0.000357866	5.45E-05	2.95E-05
1743	257181.3	4084635	0.000331786	5.05E-05	2.73E-05
1744	257207.9	4084607	0.00032082	4.89E-05	2.64E-05
1745	257246.4	4084589	0.00032408	4.94E-05	2.67E-05
1746	257284.9	4084571	0.000328229	5.00E-05	2.71E-05
1747	257323.4	4084553	0.000332823	5.07E-05	2.74E-05
1748	257361.9	4084536	0.000336972	5.13E-05	2.78E-05
1749	257400.4	4084518	0.000340677	5.19E-05	2.81E-05
1750	257438.9	4084500	0.00034453	5.25E-05	2.84E-05
1751	257477.4	4084482	0.000349123	5.32E-05	2.88E-05
1752	257056.9	4084996	0.000772636	1.18E-04	6.37E-05
1753	257057.7	4085018	0.000825686	1.26E-04	6.81E-05
1754	257059.4	4085063	0.000922747	1.41E-04	7.61E-05
1755	257061	4085107	0.001005286	1.53E-04	8.29E-05
1756	257062.7	4085152	0.001079823	1.65E-04	8.90E-05
1757	256963.7	4084957	0.000571697	8.71E-05	4.71E-05
1758	256978.9	4084916	0.000514794	7.84E-05	4.24E-05
1759	256994	4084875	0.000464411	7.08E-05	3.83E-05
1760	257009.2	4084834	0.000423068	6.45E-05	3.49E-05
1761	257024.3	4084793	0.000387948	5.91E-05	3.20E-05
1762	257039.5	4084752	0.000357125	5.44E-05	2.94E-05
1763	257054.6	4084711	0.000330749	5.04E-05	2.73E-05
1764	257069.8	4084670	0.000308224	4.70E-05	2.54E-05
1765	257084.9	4084630	0.000288368	4.39E-05	2.38E-05
1766	257100.1	4084589	0.000269696	4.11E-05	2.22E-05
1767	257135	4084539	0.0002531	3.86E-05	2.09E-05
1768	257174.6	4084520	0.000255619	3.89E-05	2.11E-05
1769	257214.2	4084502	0.000259323	3.95E-05	2.14E-05
1770	257253.8	4084484	0.000263621	4.02E-05	2.17E-05
1771	257293.5	4084465	0.000267622	4.08E-05	2.21E-05
1772	257333.1	4084447	0.000270586	4.12E-05	2.23E-05
1773	257372.7	4084429	0.000272216	4.15E-05	2.24E-05
1774	257412.3	4084410	0.000272956	4.16E-05	2.25E-05
1775	257451.9	4084392	0.000273697	4.17E-05	2.26E-05
1776	257491.5	4084374	0.000274735	4.19E-05	2.26E-05
1777	256957	4085000	0.000639714	9.75E-05	5.27E-05
1778	256958.6	4085044	0.000712324	1.09E-04	5.87E-05

1779	256960.3	4085089	0.000771598	1.18E-04	6.36E-05
1780	256961.9	4085133	0.000818128	1.25E-04	6.74E-05
1781	256963.6	4085178	0.000861398	1.31E-04	7.10E-05
1782	256863.9	4084960	0.000492566	7.50E-05	4.06E-05
1783	256879.4	4084918	0.000445888	6.79E-05	3.68E-05
1784	256894.9	4084877	0.000404693	6.17E-05	3.34E-05
1785	256910.3	4084835	0.000370907	5.65E-05	3.06E-05
1786	256925.8	4084793	0.000342455	5.22E-05	2.82E-05
1787	256941.3	4084751	0.000316523	4.82E-05	2.61E-05
1788	256956.7	4084710	0.000292665	4.46E-05	2.41E-05
1789	256972.2	4084668	0.000271623	4.14E-05	2.24E-05
1790	256987.7	4084626	0.000254137	3.87E-05	2.09E-05
1791	257003.1	4084584	0.00023917	3.64E-05	1.97E-05
1792	257018.6	4084542	0.000225537	3.44E-05	1.86E-05
1793	257034.1	4084501	0.000212793	3.24E-05	1.75E-05
1794	257062	4084470	0.000207459	3.16E-05	1.71E-05
1795	257102.5	4084452	0.000209682	3.19E-05	1.73E-05
1796	257142.9	4084433	0.00021309	3.25E-05	1.76E-05
1797	257183.3	4084414	0.000217387	3.31E-05	1.79E-05
1798	257223.7	4084396	0.000221092	3.37E-05	1.82E-05
1799	257264.2	4084377	0.000223611	3.41E-05	1.84E-05
1800	257304.6	4084358	0.0002245	3.42E-05	1.85E-05
1801	257345	4084340	0.000223759	3.41E-05	1.84E-05
1802	257385.5	4084321	0.000222129	3.38E-05	1.83E-05
1803	257425.9	4084302	0.000220499	3.36E-05	1.82E-05
1804	257466.3	4084284	0.000220055	3.35E-05	1.81E-05
1805	256857	4085003	0.000545765	8.31E-05	4.50E-05
1806	256858.7	4085048	0.000599259	9.13E-05	4.94E-05
1807	256860.3	4085092	0.000640751	9.76E-05	5.28E-05
1808	256862	4085137	0.000671277	1.02E-04	5.53E-05
1809	256863.6	4085182	0.000698099	1.06E-04	5.75E-05
1810	256664	4084968	0.000388541	5.92E-05	3.20E-05
1811	256679.4	4084926	0.000356088	5.42E-05	2.94E-05
1812	256694.8	4084884	0.000326155	4.97E-05	2.69E-05
1813	256710.2	4084843	0.000301408	4.59E-05	2.48E-05
1814	256725.6	4084801	0.000281551	4.29E-05	2.32E-05
1815	256741	4084760	0.000264806	4.03E-05	2.18E-05
1816	256756.4	4084718	0.000248802	3.79E-05	2.05E-05
1817	256771.8	4084677	0.000232354	3.54E-05	1.92E-05
1818	256787.2	4084635	0.000215905	3.29E-05	1.78E-05
1819	256802.6	4084593	0.000200642	3.06E-05	1.65E-05
1820	256818	4084552	0.000188047	2.86E-05	1.55E-05
1821	256833.4	4084510	0.000178118	2.71E-05	1.47E-05
1822	256848.8	4084469	0.000170264	2.59E-05	1.40E-05
1823	256864.2	4084427	0.000163448	2.49E-05	1.35E-05
1824	256879.6	4084386	0.000157224	2.40E-05	1.30E-05
1825	256915.1	4084335	0.000152334	2.32E-05	1.26E-05

1826	256955.3	4084316	0.00015426	2.35E-05	1.27E-05
1827	256995.6	4084298	0.00015678	2.39E-05	1.29E-05
1828	257035.8	4084279	0.000159743	2.43E-05	1.32E-05
1829	257076.1	4084260	0.000162707	2.48E-05	1.34E-05
1830	257116.3	4084242	0.000164633	2.51E-05	1.36E-05
1831	257156.6	4084223	0.000165226	2.52E-05	1.36E-05
1832	257196.8	4084205	0.000164485	2.51E-05	1.36E-05
1833	257237.1	4084186	0.000162411	2.47E-05	1.34E-05
1834	257277.3	4084167	0.000159743	2.43E-05	1.32E-05
1835	257317.5	4084149	0.000157076	2.39E-05	1.29E-05
1836	257357.8	4084130	0.00015515	2.36E-05	1.28E-05
1837	257398	4084112	0.000154409	2.35E-05	1.27E-05
1838	257438.3	4084093	0.000154853	2.36E-05	1.28E-05
1839	257478.5	4084074	0.000156483	2.38E-05	1.29E-05
1840	256657.2	4085011	0.000422475	6.44E-05	3.48E-05
1841	256658.8	4085055	0.000454335	6.92E-05	3.75E-05
1842	256660.5	4085100	0.000476859	7.26E-05	3.93E-05
1843	256662.1	4085144	0.000492122	7.50E-05	4.06E-05
1844	256663	4085167	0.000498494	7.59E-05	4.11E-05
1845	256464.2	4084975	0.000322154	4.91E-05	2.66E-05
1846	256479.5	4084934	0.000298444	4.55E-05	2.46E-05
1847	256494.9	4084892	0.000275624	4.20E-05	2.27E-05
1848	256510.2	4084851	0.000255471	3.89E-05	2.11E-05
1849	256525.6	4084809	0.000239319	3.65E-05	1.97E-05
1850	256540.9	4084768	0.000226575	3.45E-05	1.87E-05
1851	256556.3	4084726	0.000215905	3.29E-05	1.78E-05
1852	256571.6	4084685	0.000205829	3.14E-05	1.70E-05
1853	256587	4084643	0.000194863	2.97E-05	1.61E-05
1854	256602.3	4084602	0.000182712	2.78E-05	1.51E-05
1855	256617.7	4084561	0.000169968	2.59E-05	1.40E-05
1856	256633	4084519	0.000157817	2.40E-05	1.30E-05
1857	256648.4	4084478	0.000147444	2.25E-05	1.22E-05
1858	256663.7	4084436	0.000139738	2.13E-05	1.15E-05
1859	256679.1	4084395	0.000134255	2.05E-05	1.11E-05
1860	256694.4	4084353	0.000130403	1.99E-05	1.07E-05
1861	256709.8	4084312	0.000127439	1.94E-05	1.05E-05
1862	256725.1	4084270	0.000124772	1.90E-05	1.03E-05
1863	256740.5	4084229	0.000122104	1.86E-05	1.01E-05
1864	256768.2	4084199	0.00012166	1.85E-05	1.00E-05
1865	256808.3	4084180	0.000122993	1.87E-05	1.01E-05
1866	256848.5	4084162	0.000124623	1.90E-05	1.03E-05
1867	256888.6	4084143	0.000126254	1.92E-05	1.04E-05
1868	256928.7	4084125	0.000128032	1.95E-05	1.06E-05
1869	256968.8	4084106	0.000129217	1.97E-05	1.07E-05
1870	257009	4084088	0.000129662	1.98E-05	1.07E-05
1871	257049.1	4084069	0.000129217	1.97E-05	1.07E-05
1872	257089.2	4084051	0.000128032	1.95E-05	1.06E-05

1873	257129.3	4084032	0.000126254	1.92E-05	1.04E-05
1874	257169.5	4084014	0.000124327	1.89E-05	1.02E-05
1875	257209.6	4083995	0.000122401	1.86E-05	1.01E-05
1876	257249.7	4083977	0.000120771	1.84E-05	9.96E-06
1877	257289.9	4083958	0.000119733	1.82E-05	9.87E-06
1878	257330	4083939	0.000119141	1.82E-05	9.82E-06
1879	257370.1	4083921	0.000119141	1.82E-05	9.82E-06
1880	257410.2	4083902	0.000119437	1.82E-05	9.85E-06
1881	257450.4	4083884	0.00012003	1.83E-05	9.89E-06
1882	256457.3	4085018	0.000345271	5.26E-05	2.85E-05
1883	256459	4085063	0.000365868	5.57E-05	3.02E-05
1884	256460.6	4085107	0.000379353	5.78E-05	3.13E-05
1885	256462.3	4085152	0.0003878	5.91E-05	3.20E-05
1886	256463.9	4085196	0.000394764	6.01E-05	3.25E-05
1887	256264.3	4084983	0.000275624	4.20E-05	2.27E-05
1888	256279.6	4084941	0.00025799	3.93E-05	2.13E-05
1889	256294.9	4084900	0.000240059	3.66E-05	1.98E-05
1890	256310.2	4084858	0.000223611	3.41E-05	1.84E-05
1891	256325.6	4084817	0.000209682	3.19E-05	1.73E-05
1892	256340.9	4084776	0.000198568	3.03E-05	1.64E-05
1893	256356.2	4084734	0.000189825	2.89E-05	1.56E-05
1894	256371.5	4084693	0.000182564	2.78E-05	1.50E-05
1895	256386.8	4084652	0.000175747	2.68E-05	1.45E-05
1896	256402.2	4084610	0.000168338	2.56E-05	1.39E-05
1897	256417.5	4084569	0.000159891	2.44E-05	1.32E-05
1898	256432.8	4084527	0.000150111	2.29E-05	1.24E-05
1899	256448.1	4084486	0.000139442	2.12E-05	1.15E-05
1900	256463.4	4084445	0.000129365	1.97E-05	1.07E-05
1901	256478.7	4084403	0.000120771	1.84E-05	9.96E-06
1902	256494.1	4084362	0.000114102	1.74E-05	9.41E-06
1903	256509.4	4084321	0.000109657	1.67E-05	9.04E-06
1904	256524.7	4084279	0.000106989	1.63E-05	8.82E-06
1905	256540	4084238	0.000105508	1.61E-05	8.70E-06
1906	256555.3	4084197	0.000104619	1.59E-05	8.62E-06
1907	256570.7	4084155	0.000103878	1.58E-05	8.56E-06
1908	256586	4084114	0.000103137	1.57E-05	8.50E-06
1909	256621.3	4084063	0.000102396	1.56E-05	8.44E-06
1910	256661.4	4084045	0.000103285	1.57E-05	8.51E-06
1911	256701.4	4084026	0.000103878	1.58E-05	8.56E-06
1912	256741.5	4084008	0.00010447	1.59E-05	8.61E-06
1913	256781.5	4083989	0.000105063	1.60E-05	8.66E-06
1914	256821.6	4083971	0.000105508	1.61E-05	8.70E-06
1915	256861.6	4083952	0.000105656	1.61E-05	8.71E-06
1916	256901.6	4083934	0.000105508	1.61E-05	8.70E-06
1917	256941.7	4083915	0.000104915	1.60E-05	8.65E-06
1918	256981.7	4083897	0.000104026	1.58E-05	8.57E-06
1919	257021.8	4083878	0.000102988	1.57E-05	8.49E-06

1920	257061.8	4083860	0.000101951	1.55E-05	8.40E-06
1921	257101.9	4083841	0.000101062	1.54E-05	8.33E-06
1922	257141.9	4083823	0.000100173	1.53E-05	8.26E-06
1923	257182	4083804	9.92838E-05	1.51E-05	8.18E-06
1924	257222	4083786	9.83947E-05	1.50E-05	8.11E-06
1925	257262.1	4083767	9.76538E-05	1.49E-05	8.05E-06
1926	257302.1	4083749	9.69129E-05	1.48E-05	7.99E-06
1927	257342.2	4083730	9.6172E-05	1.47E-05	7.93E-06
1928	257382.2	4083712	9.55792E-05	1.46E-05	7.88E-06
1929	257422.2	4083693	9.51347E-05	1.45E-05	7.84E-06
1930	257462.3	4083675	9.48383E-05	1.44E-05	7.82E-06
1931	256257.5	4085025	0.00029222	4.45E-05	2.41E-05
1932	256259.1	4085070	0.000306298	4.67E-05	2.52E-05
1933	256260.8	4085115	0.000314893	4.80E-05	2.60E-05
1934	256261.6	4085137	0.000317708	4.84E-05	2.62E-05
1935	256263.2	4085181	0.000321857	4.90E-05	2.65E-05
1936	256064.4	4084990	0.000241245	3.68E-05	1.99E-05
1937	256079.7	4084949	0.000228205	3.48E-05	1.88E-05
1938	256095	4084907	0.000213979	3.26E-05	1.76E-05
1939	256110.3	4084866	0.000200346	3.05E-05	1.65E-05
1940	256125.6	4084825	0.000188195	2.87E-05	1.55E-05
1941	256140.9	4084783	0.000178118	2.71E-05	1.47E-05
1942	256156.2	4084742	0.000170116	2.59E-05	1.40E-05
1943	256171.5	4084701	0.000163744	2.49E-05	1.35E-05
1944	256186.8	4084660	0.00015841	2.41E-05	1.31E-05
1945	256202.1	4084618	0.00015352	2.34E-05	1.27E-05
1946	256217.4	4084577	0.000148333	2.26E-05	1.22E-05
1947	256232.7	4084536	0.000142406	2.17E-05	1.17E-05
1948	256248	4084494	0.000135145	2.06E-05	1.11E-05
1949	256263.3	4084453	0.00012655	1.93E-05	1.04E-05
1950	256278.6	4084412	0.000117955	1.80E-05	9.72E-06
1951	256293.9	4084370	0.00010936	1.67E-05	9.01E-06
1952	256309.2	4084329	0.000101951	1.55E-05	8.40E-06
1953	256324.4	4084288	9.6172E-05	1.47E-05	7.93E-06
1954	256339.7	4084246	9.2171E-05	1.40E-05	7.60E-06
1955	256355	4084205	0.0000898	1.37E-05	7.40E-06
1956	256370.3	4084164	8.89109E-05	1.35E-05	7.33E-06
1957	256385.6	4084123	8.89109E-05	1.35E-05	7.33E-06
1958	256400.9	4084081	8.93554E-05	1.36E-05	7.37E-06
1959	256416.2	4084040	8.96518E-05	1.37E-05	7.39E-06
1960	256431.5	4083999	0.0000898	1.37E-05	7.40E-06
1961	256446.8	4083957	8.92073E-05	1.36E-05	7.35E-06
1962	256474.5	4083927	8.90591E-05	1.36E-05	7.34E-06
1963	256514.4	4083909	8.93554E-05	1.36E-05	7.37E-06
1964	256554.4	4083890	8.93554E-05	1.36E-05	7.37E-06
1965	256594.4	4083872	8.90591E-05	1.36E-05	7.34E-06
1966	256634.4	4083854	8.87627E-05	1.35E-05	7.32E-06

1967	256674.4	4083835	8.86145E-05	1.35E-05	7.30E-06
1968	256714.4	4083817	8.84663E-05	1.35E-05	7.29E-06
1969	256754.4	4083798	8.83182E-05	1.35E-05	7.28E-06
1970	256794.4	4083780	8.80218E-05	1.34E-05	7.26E-06
1971	256834.3	4083761	8.77254E-05	1.34E-05	7.23E-06
1972	256874.3	4083743	8.75772E-05	1.33E-05	7.22E-06
1973	256914.3	4083724	8.72809E-05	1.33E-05	7.19E-06
1974	256954.3	4083706	8.69845E-05	1.33E-05	7.17E-06
1975	256994.3	4083687	8.66881E-05	1.32E-05	7.15E-06
1976	257034.3	4083669	8.62436E-05	1.31E-05	7.11E-06
1977	257074.3	4083650	8.56508E-05	1.30E-05	7.06E-06
1978	257114.2	4083632	8.49099E-05	1.29E-05	7.00E-06
1979	257154.2	4083613	8.40208E-05	1.28E-05	6.93E-06
1980	257194.2	4083595	8.28353E-05	1.26E-05	6.83E-06
1981	257234.2	4083576	8.15017E-05	1.24E-05	6.72E-06
1982	257274.2	4083558	8.0168E-05	1.22E-05	6.61E-06
1983	257314.2	4083539	7.88343E-05	1.20E-05	6.50E-06
1984	257354.2	4083521	7.7797E-05	1.19E-05	6.41E-06
1985	257394.2	4083503	7.70561E-05	1.17E-05	6.35E-06
1986	257434.1	4083484	7.67597E-05	1.17E-05	6.33E-06
1987	256057.6	4085033	0.000253396	3.86E-05	2.09E-05
1988	256059.2	4085077	0.000263473	4.01E-05	2.17E-05
1989	256060.9	4085122	0.000269252	4.10E-05	2.22E-05
1990	256062.5	4085167	0.000272216	4.15E-05	2.24E-05
1991	256064.2	4085211	0.000274438	4.18E-05	2.26E-05
1992	257564.3	4085181	0.03305455	5.04E-03	2.72E-03
1993	257588.6	4085180	0.03897439	5.94E-03	3.21E-03
1994	257612.8	4085178	0.04249244	6.47E-03	3.50E-03
1995	257637.1	4085177	0.04466468	6.80E-03	3.68E-03
1996	257661.4	4085176	0.04612401	7.03E-03	3.80E-03
1997	257685.7	4085175	0.04715004	7.18E-03	3.89E-03
1998	257710	4085174	0.04791067	7.30E-03	3.95E-03
1999	257734.2	4085173	0.0484677	7.38E-03	4.00E-03
2000	257758.5	4085172	0.04888128	7.45E-03	4.03E-03
2001	257782.8	4085171	0.04918032	7.49E-03	4.05E-03
2002	257807.1	4085170	0.04940378	7.53E-03	4.07E-03
2003	257831.4	4085169	0.0495407	7.55E-03	4.08E-03
2004	257855.7	4085168	0.04963539	7.56E-03	4.09E-03
2005	257879.9	4085167	0.04968059	7.57E-03	4.10E-03
2006	257904.2	4085166	0.04967007	7.57E-03	4.09E-03
2007	257928.5	4085164	0.04962576	7.56E-03	4.09E-03
2008	257952.8	4085163	0.04953107	7.55E-03	4.08E-03
2009	257977.1	4085162	0.04938526	7.52E-03	4.07E-03
2010	258001.3	4085161	0.0491984	7.50E-03	4.06E-03
2011	258025.6	4085160	0.0489696	7.46E-03	4.04E-03
2012	258049.9	4085159	0.04867886	7.42E-03	4.01E-03
2013	258074.2	4085158	0.04829269	7.36E-03	3.98E-03

2014	258098.5	4085157	0.04703386	7.17E-03	3.88E-03
2015	258122.8	4085156	0.04641104	7.07E-03	3.83E-03
2016	258147	4085155	0.04568434	6.96E-03	3.77E-03
2017	258171.3	4085154	0.04477701	6.82E-03	3.69E-03
2018	258195.6	4085153	0.04360353	6.64E-03	3.59E-03
2019	258219.9	4085152	0.04208449	6.41E-03	3.47E-03
2020	258244.2	4085150	0.04011244	6.11E-03	3.31E-03
2021	258268.4	4085149	0.03747505	5.71E-03	3.09E-03
2022	258292.7	4085148	0.03387846	5.16E-03	2.79E-03
2023	258317	4085147	0.02892479	4.41E-03	2.38E-03
2024	258341.3	4085146	0.02252602	3.43E-03	1.86E-03
2025	258365.6	4085145	0.01621142	2.47E-03	1.34E-03
2026	257547.3	4085199	0.02288996	3.49E-03	1.89E-03
2027	257589.7	4085204	0.02662022	4.06E-03	2.19E-03
2028	257613.9	4085203	0.0286013	4.36E-03	2.36E-03
2029	257638.2	4085202	0.02999542	4.57E-03	2.47E-03
2030	257662.5	4085201	0.03099834	4.72E-03	2.56E-03
2031	257686.8	4085200	0.03174815	4.84E-03	2.62E-03
2032	257711.1	4085199	0.03231363	4.92E-03	2.66E-03
2033	257735.4	4085198	0.03275166	4.99E-03	2.70E-03
2034	257759.6	4085197	0.03308582	5.04E-03	2.73E-03
2035	257783.9	4085196	0.03334529	5.08E-03	2.75E-03
2036	257808.2	4085195	0.033536	5.11E-03	2.76E-03
2037	257832.5	4085194	0.03367559	5.13E-03	2.78E-03
2038	257856.8	4085193	0.03376213	5.14E-03	2.78E-03
2039	257881	4085192	0.03380718	5.15E-03	2.79E-03
2040	257905.3	4085190	0.03380733	5.15E-03	2.79E-03
2041	257929.6	4085189	0.03375931	5.14E-03	2.78E-03
2042	257953.9	4085188	0.03367248	5.13E-03	2.78E-03
2043	257978.2	4085187	0.03312271	5.05E-03	2.73E-03
2044	258002.5	4085186	0.03293393	5.02E-03	2.71E-03
2045	258026.7	4085185	0.03269535	4.98E-03	2.70E-03
2046	258051	4085184	0.03239543	4.94E-03	2.67E-03
2047	258075.3	4085183	0.03201488	4.88E-03	2.64E-03
2048	258099.6	4085182	0.03154736	4.81E-03	2.60E-03
2049	258123.9	4085181	0.03096633	4.72E-03	2.55E-03
2050	258148.1	4085180	0.0302546	4.61E-03	2.49E-03
2051	258172.4	4085179	0.02937497	4.48E-03	2.42E-03
2052	258196.7	4085178	0.0282784	4.31E-03	2.33E-03
2053	258221	4085177	0.02691377	4.10E-03	2.22E-03
2054	258245.3	4085175	0.02519927	3.84E-03	2.08E-03
2055	258269.6	4085174	0.02306956	3.51E-03	1.90E-03
2056	258293.8	4085173	0.02046151	3.12E-03	1.69E-03
2057	258318.1	4085172	0.01739423	2.65E-03	1.43E-03
2058	258342.4	4085171	0.01411327	2.15E-03	1.16E-03
2059	257548.4	4085224	0.01824096	2.78E-03	1.50E-03
2060	257504.3	4085193	0.01635071	2.49E-03	1.35E-03

2061	257590.8	4085229	0.02024694	3.08E-03	1.67E-03
2062	257615	4085228	0.02150814	3.28E-03	1.77E-03
2063	257639.3	4085227	0.02247297	3.42E-03	1.85E-03
2064	257663.6	4085226	0.02320767	3.54E-03	1.91E-03
2065	257687.9	4085225	0.0237687	3.62E-03	1.96E-03
2066	257712.2	4085224	0.02420392	3.69E-03	2.00E-03
2067	257736.5	4085223	0.02453955	3.74E-03	2.02E-03
2068	257760.7	4085222	0.02480199	3.78E-03	2.04E-03
2069	257785	4085221	0.02500026	3.81E-03	2.06E-03
2070	257809.3	4085220	0.02514859	3.83E-03	2.07E-03
2071	257833.6	4085219	0.02524788	3.85E-03	2.08E-03
2072	257857.9	4085218	0.02530967	3.86E-03	2.09E-03
2073	257882.1	4085217	0.02532834	3.86E-03	2.09E-03
2074	257906.4	4085215	0.02521483	3.84E-03	2.08E-03
2075	257930.7	4085214	0.02498411	3.81E-03	2.06E-03
2076	257955	4085213	0.02488245	3.79E-03	2.05E-03
2077	257979.3	4085212	0.02473857	3.77E-03	2.04E-03
2078	258003.6	4085211	0.02454341	3.74E-03	2.02E-03
2079	258027.8	4085210	0.02429594	3.70E-03	2.00E-03
2080	258052.1	4085209	0.02398371	3.65E-03	1.98E-03
2081	258076.4	4085208	0.02360303	3.60E-03	1.95E-03
2082	258100.7	4085207	0.02313654	3.52E-03	1.91E-03
2083	258125	4085206	0.02257551	3.44E-03	1.86E-03
2084	258149.2	4085205	0.02189697	3.34E-03	1.80E-03
2085	258173.5	4085204	0.02108255	3.21E-03	1.74E-03
2086	258197.8	4085203	0.02010157	3.06E-03	1.66E-03
2087	258222.1	4085201	0.0189235	2.88E-03	1.56E-03
2088	258246.4	4085200	0.01752982	2.67E-03	1.44E-03
2089	258270.7	4085199	0.01590734	2.42E-03	1.31E-03
2090	258294.9	4085198	0.01407682	2.14E-03	1.16E-03
2091	258319.2	4085197	0.01211277	1.85E-03	9.98E-04
2092	258343.5	4085196	0.01017096	1.55E-03	8.38E-04
2093	258367.8	4085195	0.008433791	1.28E-03	6.95E-04
2094	257549.5	4085249	0.01505498	2.29E-03	1.24E-03
2095	257513.4	4085236	0.01390922	2.12E-03	1.15E-03
2096	257487.3	4085212	0.01315081	2.00E-03	1.08E-03
2097	257471.3	4085177	0.01226452	1.87E-03	1.01E-03
2098	257591.9	4085254	0.01630537	2.48E-03	1.34E-03
2099	257616.2	4085253	0.01717344	2.62E-03	1.42E-03
2100	257640.4	4085252	0.01786753	2.72E-03	1.47E-03
2101	257664.7	4085251	0.01841952	2.81E-03	1.52E-03
2102	257689	4085250	0.01885429	2.87E-03	1.55E-03
2103	257713.3	4085249	0.01919245	2.92E-03	1.58E-03
2104	257737.6	4085248	0.01945607	2.96E-03	1.60E-03
2105	257761.8	4085247	0.01965686	2.99E-03	1.62E-03
2106	257786.1	4085246	0.01980861	3.02E-03	1.63E-03
2107	257810.4	4085245	0.01991456	3.03E-03	1.64E-03

2108	257834.7	4085244	0.01998228	3.04E-03	1.65E-03
2109	257859	4085243	0.02001058	3.05E-03	1.65E-03
2110	257883.3	4085242	0.01987544	3.03E-03	1.64E-03
2111	257907.5	4085240	0.0197683	3.01E-03	1.63E-03
2112	257931.8	4085239	0.01968902	3.00E-03	1.62E-03
2113	257956.1	4085238	0.01957092	2.98E-03	1.61E-03
2114	257980.4	4085237	0.0194088	2.96E-03	1.60E-03
2115	258004.7	4085236	0.01920312	2.93E-03	1.58E-03
2116	258028.9	4085235	0.01894498	2.89E-03	1.56E-03
2117	258053.2	4085234	0.01863246	2.84E-03	1.54E-03
2118	258077.5	4085233	0.01825548	2.78E-03	1.50E-03
2119	258101.8	4085232	0.01780945	2.71E-03	1.47E-03
2120	258126.1	4085231	0.01728013	2.63E-03	1.42E-03
2121	258150.4	4085230	0.01665997	2.54E-03	1.37E-03
2122	258174.6	4085229	0.01593165	2.43E-03	1.31E-03
2123	258198.9	4085228	0.01508581	2.30E-03	1.24E-03
2124	258223.2	4085226	0.01411134	2.15E-03	1.16E-03
2125	258247.5	4085225	0.01300574	1.98E-03	1.07E-03
2126	258271.8	4085224	0.01178336	1.80E-03	9.71E-04
2127	258296	4085223	0.01047518	1.60E-03	8.63E-04
2128	258320.3	4085222	0.009150413	1.39E-03	7.54E-04
2129	258344.6	4085221	0.007872022	1.20E-03	6.49E-04
2130	257548.1	4085298	0.01099591	1.68E-03	9.06E-04
2131	257526.5	4085290	0.01080015	1.65E-03	8.90E-04
2132	257504.8	4085282	0.01044184	1.59E-03	8.61E-04
2133	257483.2	4085274	0.009902154	1.51E-03	8.16E-04
2134	257451.9	4085245	0.009311489	1.42E-03	7.68E-04
2135	257442.2	4085224	0.009137075	1.39E-03	7.53E-04
2136	257432.6	4085203	0.008648955	1.32E-03	7.13E-04
2137	257422.9	4085182	0.007924924	1.21E-03	6.53E-04
2138	257569.8	4085305	0.01104466	1.68E-03	9.10E-04
2139	257594.1	4085304	0.0116088	1.77E-03	9.57E-04
2140	257618.4	4085303	0.0120778	1.84E-03	9.96E-04
2141	257642.6	4085302	0.01246531	1.90E-03	1.03E-03
2142	257666.9	4085301	0.01278939	1.95E-03	1.05E-03
2143	257691.2	4085300	0.01305345	1.99E-03	1.08E-03
2144	257715.5	4085299	0.01326195	2.02E-03	1.09E-03
2145	257739.8	4085298	0.01341977	2.04E-03	1.11E-03
2146	257764.1	4085297	0.01353179	2.06E-03	1.12E-03
2147	257788.3	4085296	0.01358899	2.07E-03	1.12E-03
2148	257812.6	4085295	0.01356943	2.07E-03	1.12E-03
2149	257836.9	4085294	0.01357269	2.07E-03	1.12E-03
2150	257861.2	4085293	0.01351623	2.06E-03	1.11E-03
2151	257885.5	4085291	0.01346378	2.05E-03	1.11E-03
2152	257909.7	4085290	0.0133805	2.04E-03	1.10E-03
2153	257934	4085289	0.01326758	2.02E-03	1.09E-03
2154	257958.3	4085288	0.01312177	2.00E-03	1.08E-03

2155	257982.6	4085287	0.01294379	1.97E-03	1.07E-03
2156	258006.9	4085286	0.01273056	1.94E-03	1.05E-03
2157	258031.2	4085285	0.01247938	1.90E-03	1.03E-03
2158	258055.4	4085284	0.01218939	1.86E-03	1.00E-03
2159	258079.7	4085283	0.01185582	1.81E-03	9.77E-04
2160	258104	4085282	0.01147751	1.75E-03	9.46E-04
2161	258128.3	4085281	0.01104881	1.68E-03	9.11E-04
2162	258152.6	4085280	0.01056765	1.61E-03	8.71E-04
2163	258176.8	4085279	0.01002915	1.53E-03	8.27E-04
2164	258201.1	4085277	0.009433742	1.44E-03	7.78E-04
2165	258225.4	4085276	0.008783062	1.34E-03	7.24E-04
2166	258249.7	4085275	0.008090447	1.23E-03	6.67E-04
2167	258274	4085274	0.00737501	1.12E-03	6.08E-04
2168	258298.3	4085273	0.00665987	1.01E-03	5.49E-04
2169	258322.5	4085272	0.005959104	9.08E-04	4.91E-04
2170	258346.8	4085271	0.005287975	8.06E-04	4.36E-04
2171	258371.1	4085270	0.004678639	7.13E-04	3.86E-04
2172	257551.4	4085348	0.008536631	1.30E-03	7.04E-04
2173	257510.1	4085333	0.008362366	1.27E-03	6.89E-04
2174	257468.9	4085318	0.007872911	1.20E-03	6.49E-04
2175	257418.4	4085283	0.007106499	1.08E-03	5.86E-04
2176	257400	4085243	0.006804646	1.04E-03	5.61E-04
2177	257381.7	4085203	0.005921317	9.02E-04	4.88E-04
2178	257596.3	4085354	0.008848708	1.35E-03	7.29E-04
2179	257620.6	4085353	0.009124183	1.39E-03	7.52E-04
2180	257644.9	4085352	0.009350314	1.42E-03	7.71E-04
2181	257669.1	4085351	0.00953836	1.45E-03	7.86E-04
2182	257693.4	4085350	0.009693066	1.48E-03	7.99E-04
2183	257717.7	4085349	0.009815318	1.50E-03	8.09E-04
2184	257742	4085348	0.009880964	1.51E-03	8.14E-04
2185	257766.3	4085347	0.009890892	1.51E-03	8.15E-04
2186	257790.6	4085346	0.009909859	1.51E-03	8.17E-04
2187	257814.8	4085345	0.009905563	1.51E-03	8.17E-04
2188	257839.1	4085344	0.009875185	1.50E-03	8.14E-04
2189	257863.4	4085343	0.009819911	1.50E-03	8.09E-04
2190	257887.7	4085341	0.009741521	1.48E-03	8.03E-04
2191	257912	4085340	0.00963957	1.47E-03	7.95E-04
2192	257936.2	4085339	0.009515095	1.45E-03	7.84E-04
2193	257960.5	4085338	0.009367207	1.43E-03	7.72E-04
2194	257984.8	4085337	0.009196497	1.40E-03	7.58E-04
2195	258009.1	4085336	0.009001635	1.37E-03	7.42E-04
2196	258033.4	4085335	0.008783062	1.34E-03	7.24E-04
2197	258057.7	4085334	0.008538557	1.30E-03	7.04E-04
2198	258081.9	4085333	0.00826812	1.26E-03	6.82E-04
2199	258106.2	4085332	0.007969528	1.21E-03	6.57E-04
2200	258130.5	4085331	0.007639964	1.16E-03	6.30E-04
2201	258154.8	4085330	0.007278838	1.11E-03	6.00E-04

2202	258179.1	4085329	0.006885556	1.05E-03	5.68E-04
2203	258203.3	4085327	0.006465007	9.85E-04	5.33E-04
2204	258227.6	4085326	0.006025936	9.18E-04	4.97E-04
2205	258251.9	4085325	0.005581381	8.50E-04	4.60E-04
2206	258276.2	4085324	0.005140383	7.83E-04	4.24E-04
2207	258300.5	4085323	0.004705757	7.17E-04	3.88E-04
2208	258324.8	4085322	0.004279133	6.52E-04	3.53E-04
2209	258349	4085321	0.003872365	5.90E-04	3.19E-04
2210	258373.3	4085320	0.00349894	5.33E-04	2.88E-04
2211	257551.7	4085397	0.006853548	1.04E-03	5.65E-04
2212	257529.1	4085389	0.006852214	1.04E-03	5.65E-04
2213	257506.5	4085381	0.006800497	1.04E-03	5.61E-04
2214	257484	4085372	0.00669662	1.02E-03	5.52E-04
2215	257461.4	4085364	0.006531246	9.95E-04	5.38E-04
2216	257438.8	4085356	0.006297262	9.59E-04	5.19E-04
2217	257416.3	4085348	0.00600193	9.14E-04	4.95E-04
2218	257383.7	4085318	0.005690889	8.67E-04	4.69E-04
2219	257373.6	4085296	0.005632209	8.58E-04	4.64E-04
2220	257363.6	4085274	0.005461648	8.32E-04	4.50E-04
2221	257353.5	4085252	0.005171354	7.88E-04	4.26E-04
2222	257343.5	4085230	0.004780442	7.28E-04	3.94E-04
2223	257333.4	4085209	0.004327885	6.59E-04	3.57E-04
2224	257323.4	4085187	0.003853695	5.87E-04	3.18E-04
2225	257574.2	4085405	0.006805981	1.04E-03	5.61E-04
2226	257598.5	4085404	0.007004844	1.07E-03	5.77E-04
2227	257622.8	4085403	0.007170219	1.09E-03	5.91E-04
2228	257647.1	4085402	0.007302251	1.11E-03	6.02E-04
2229	257671.4	4085401	0.00740687	1.13E-03	6.11E-04
2230	257695.6	4085400	0.007482148	1.14E-03	6.17E-04
2231	257719.9	4085399	0.007504227	1.14E-03	6.19E-04
2232	257744.2	4085398	0.007544533	1.15E-03	6.22E-04
2233	257768.5	4085397	0.007562612	1.15E-03	6.23E-04
2234	257792.8	4085396	0.007556981	1.15E-03	6.23E-04
2235	257817	4085395	0.007529864	1.15E-03	6.21E-04
2236	257841.3	4085394	0.007481851	1.14E-03	6.17E-04
2237	257865.6	4085392	0.007415317	1.13E-03	6.11E-04
2238	257889.9	4085391	0.007330851	1.12E-03	6.04E-04
2239	257914.2	4085390	0.007229196	1.10E-03	5.96E-04
2240	257938.5	4085389	0.007111686	1.08E-03	5.86E-04
2241	257962.7	4085388	0.006978171	1.06E-03	5.75E-04
2242	257987	4085387	0.006829245	1.04E-03	5.63E-04
2243	258011.3	4085386	0.006664168	1.02E-03	5.49E-04
2244	258035.6	4085385	0.006483234	9.88E-04	5.34E-04
2245	258059.9	4085384	0.006285111	9.57E-04	5.18E-04
2246	258084.1	4085383	0.006069206	9.25E-04	5.00E-04
2247	258108.4	4085382	0.005832999	8.89E-04	4.81E-04
2248	258132.7	4085381	0.005576788	8.50E-04	4.60E-04

2249	258157	4085380	0.005301312	8.08E-04	4.37E-04
2250	258181.3	4085378	0.005010573	7.63E-04	4.13E-04
2251	258205.6	4085377	0.00471198	7.18E-04	3.88E-04
2252	258229.8	4085376	0.004413092	6.72E-04	3.64E-04
2253	258254.1	4085375	0.004118649	6.27E-04	3.39E-04
2254	258278.4	4085374	0.003827762	5.83E-04	3.16E-04
2255	258302.7	4085373	0.003539394	5.39E-04	2.92E-04
2256	258327	4085372	0.00325725	4.96E-04	2.68E-04
2257	258351.2	4085371	0.002988443	4.55E-04	2.46E-04
2258	258375.5	4085370	0.002739344	4.17E-04	2.26E-04
2259	257554.8	4085447	0.005620205	8.56E-04	4.63E-04
2260	257533.1	4085439	0.005653547	8.61E-04	4.66E-04
2261	257511.5	4085432	0.005656807	8.62E-04	4.66E-04
2262	257489.8	4085424	0.005629838	8.58E-04	4.64E-04
2263	257468.1	4085416	0.00557086	8.49E-04	4.59E-04
2264	257446.5	4085408	0.005474539	8.34E-04	4.51E-04
2265	257424.8	4085400	0.005334357	8.13E-04	4.40E-04
2266	257403.2	4085392	0.005151793	7.85E-04	4.25E-04
2267	257381.5	4085384	0.004935443	7.52E-04	4.07E-04
2268	257350.2	4085355	0.004716278	7.18E-04	3.89E-04
2269	257340.5	4085334	0.004686048	7.14E-04	3.86E-04
2270	257330.9	4085313	0.004591655	7.00E-04	3.78E-04
2271	257321.2	4085292	0.004422576	6.74E-04	3.65E-04
2272	257311.6	4085271	0.004179256	6.37E-04	3.44E-04
2273	257302	4085251	0.003875478	5.90E-04	3.19E-04
2274	257292.3	4085230	0.003534504	5.38E-04	2.91E-04
2275	257282.7	4085209	0.003182862	4.85E-04	2.62E-04
2276	257273	4085188	0.002841592	4.33E-04	2.34E-04
2277	257576.4	4085455	0.005558116	8.47E-04	4.58E-04
2278	257600.7	4085454	0.005679331	8.65E-04	4.68E-04
2279	257625	4085453	0.00577743	8.80E-04	4.76E-04
2280	257649.3	4085452	0.005852559	8.92E-04	4.82E-04
2281	257673.6	4085451	0.005884123	8.96E-04	4.85E-04
2282	257697.8	4085450	0.005910203	9.00E-04	4.87E-04
2283	257722.1	4085449	0.005933468	9.04E-04	4.89E-04
2284	257746.4	4085448	0.005943841	9.06E-04	4.90E-04
2285	257770.7	4085447	0.005940136	9.05E-04	4.90E-04
2286	257795	4085446	0.005920132	9.02E-04	4.88E-04
2287	257819.3	4085445	0.005884419	8.96E-04	4.85E-04
2288	257843.5	4085443	0.005832999	8.89E-04	4.81E-04
2289	257867.8	4085442	0.00576765	8.79E-04	4.75E-04
2290	257892.1	4085441	0.005688963	8.67E-04	4.69E-04
2291	257916.4	4085440	0.005598571	8.53E-04	4.61E-04
2292	257940.7	4085439	0.005496471	8.37E-04	4.53E-04
2293	257964.9	4085438	0.005382813	8.20E-04	4.44E-04
2294	257989.2	4085437	0.005258042	8.01E-04	4.33E-04
2295	258013.5	4085436	0.005121267	7.80E-04	4.22E-04

2296	258037.8	4085435	0.004972341	7.58E-04	4.10E-04
2297	258062.1	4085434	0.004809783	7.33E-04	3.96E-04
2298	258086.4	4085433	0.004633443	7.06E-04	3.82E-04
2299	258110.6	4085432	0.004442729	6.77E-04	3.66E-04
2300	258134.9	4085431	0.004239864	6.46E-04	3.49E-04
2301	258159.2	4085430	0.004028404	6.14E-04	3.32E-04
2302	258183.5	4085428	0.003813833	5.81E-04	3.14E-04
2303	258207.8	4085427	0.003601335	5.49E-04	2.97E-04
2304	258232	4085426	0.003392691	5.17E-04	2.80E-04
2305	258256.3	4085425	0.003187011	4.86E-04	2.63E-04
2306	258280.6	4085424	0.002982071	4.54E-04	2.46E-04
2307	258304.9	4085423	0.002779058	4.23E-04	2.29E-04
2308	258329.2	4085422	0.002581231	3.93E-04	2.13E-04
2309	258353.5	4085421	0.00239274	3.65E-04	1.97E-04
2310	258377.7	4085420	0.002216697	3.38E-04	1.83E-04
2311	257558.6	4085547	0.003926897	5.98E-04	3.24E-04
2312	257536.4	4085539	0.003999657	6.09E-04	3.30E-04
2313	257514.2	4085531	0.004041296	6.16E-04	3.33E-04
2314	257492	4085523	0.00406797	6.20E-04	3.35E-04
2315	257469.8	4085515	0.004079676	6.22E-04	3.36E-04
2316	257447.6	4085507	0.004076268	6.21E-04	3.36E-04
2317	257425.3	4085498	0.004054781	6.18E-04	3.34E-04
2318	257403.1	4085490	0.004010919	6.11E-04	3.31E-04
2319	257380.9	4085482	0.003940531	6.00E-04	3.25E-04
2320	257358.7	4085474	0.003844655	5.86E-04	3.17E-04
2321	257336.5	4085466	0.003728775	5.68E-04	3.07E-04
2322	257314.3	4085458	0.003598668	5.48E-04	2.97E-04
2323	257282.2	4085428	0.003475675	5.29E-04	2.86E-04
2324	257272.3	4085407	0.003465598	5.28E-04	2.86E-04
2325	257262.4	4085385	0.003422328	5.21E-04	2.82E-04
2326	257252.5	4085364	0.0033389	5.09E-04	2.75E-04
2327	257242.6	4085342	0.003212054	4.89E-04	2.65E-04
2328	257232.7	4085321	0.003042234	4.63E-04	2.51E-04
2329	257222.8	4085299	0.002836406	4.32E-04	2.34E-04
2330	257212.9	4085278	0.002607608	3.97E-04	2.15E-04
2331	257203	4085256	0.002371253	3.61E-04	1.95E-04
2332	257193.1	4085235	0.002141567	3.26E-04	1.77E-04
2333	257183.2	4085213	0.001929663	2.94E-04	1.59E-04
2334	257173.3	4085192	0.001742357	2.65E-04	1.44E-04
2335	257580.9	4085555	0.003858733	5.88E-04	3.18E-04
2336	257605.1	4085554	0.00390141	5.94E-04	3.22E-04
2337	257629.4	4085553	0.003932381	5.99E-04	3.24E-04
2338	257653.7	4085552	0.003951496	6.02E-04	3.26E-04
2339	257678	4085551	0.003958758	6.03E-04	3.26E-04
2340	257702.3	4085550	0.003955645	6.03E-04	3.26E-04
2341	257726.6	4085549	0.003944383	6.01E-04	3.25E-04
2342	257750.8	4085548	0.003927342	5.98E-04	3.24E-04

2343	257775.1	4085547	0.003905411	5.95E-04	3.22E-04
2344	257799.4	4085546	0.003877997	5.91E-04	3.20E-04
2345	257823.7	4085544	0.003844358	5.86E-04	3.17E-04
2346	257848	4085543	0.003803015	5.79E-04	3.13E-04
2347	257872.2	4085542	0.003753521	5.72E-04	3.09E-04
2348	257896.5	4085541	0.003695729	5.63E-04	3.05E-04
2349	257920.8	4085540	0.003630232	5.53E-04	2.99E-04
2350	257945.1	4085539	0.003556584	5.42E-04	2.93E-04
2351	257969.4	4085538	0.003475082	5.29E-04	2.86E-04
2352	257993.7	4085537	0.003385282	5.16E-04	2.79E-04
2353	258017.9	4085536	0.003286887	5.01E-04	2.71E-04
2354	258042.2	4085535	0.003180046	4.84E-04	2.62E-04
2355	258066.5	4085534	0.003065055	4.67E-04	2.53E-04
2356	258090.8	4085533	0.002944432	4.49E-04	2.43E-04
2357	258115.1	4085532	0.002820253	4.30E-04	2.32E-04
2358	258139.3	4085530	0.002696223	4.11E-04	2.22E-04
2359	258163.6	4085529	0.002574415	3.92E-04	2.12E-04
2360	258187.9	4085528	0.002455867	3.74E-04	2.02E-04
2361	258212.2	4085527	0.002339246	3.56E-04	1.93E-04
2362	258236.5	4085526	0.002222921	3.39E-04	1.83E-04
2363	258260.8	4085525	0.002106003	3.21E-04	1.74E-04
2364	258285	4085524	0.001989678	3.03E-04	1.64E-04
2365	258309.3	4085523	0.001875575	2.86E-04	1.55E-04
2366	258333.6	4085522	0.001764881	2.69E-04	1.45E-04
2367	258357.9	4085521	0.001659374	2.53E-04	1.37E-04
2368	258382.2	4085520	0.001559793	2.38E-04	1.29E-04
2369	257562.7	4085647	0.002880713	4.39E-04	2.37E-04
2370	257540.2	4085639	0.002933467	4.47E-04	2.42E-04
2371	257517.6	4085630	0.002980145	4.54E-04	2.46E-04
2372	257495	4085622	0.00301971	4.60E-04	2.49E-04
2373	257472.5	4085614	0.003051718	4.65E-04	2.52E-04
2374	257449.9	4085606	0.003076317	4.69E-04	2.54E-04
2375	257427.3	4085597	0.003103435	4.73E-04	2.56E-04
2376	257404.8	4085589	0.003113808	4.74E-04	2.57E-04
2377	257382.2	4085581	0.003111288	4.74E-04	2.56E-04
2378	257359.7	4085573	0.003094099	4.71E-04	2.55E-04
2379	257337.1	4085564	0.003059572	4.66E-04	2.52E-04
2380	257314.5	4085556	0.003008744	4.58E-04	2.48E-04
2381	257292	4085548	0.002945025	4.49E-04	2.43E-04
2382	257269.4	4085540	0.002872118	4.38E-04	2.37E-04
2383	257246.8	4085531	0.002793284	4.26E-04	2.30E-04
2384	257214.2	4085501	0.002727786	4.16E-04	2.25E-04
2385	257204.2	4085480	0.002729564	4.16E-04	2.25E-04
2386	257194.1	4085458	0.002711189	4.13E-04	2.23E-04
2387	257184.1	4085436	0.002668512	4.07E-04	2.20E-04
2388	257174	4085414	0.002598272	3.96E-04	2.14E-04
2389	257164	4085392	0.002499433	3.81E-04	2.06E-04

2390	257153.9	4085370	0.002373032	3.62E-04	1.96E-04
2391	257143.9	4085349	0.002223513	3.39E-04	1.83E-04
2392	257133.8	4085327	0.002058435	3.14E-04	1.70E-04
2393	257123.8	4085305	0.001887578	2.88E-04	1.56E-04
2394	257113.7	4085283	0.001720129	2.62E-04	1.42E-04
2395	257103.7	4085261	0.001563794	2.38E-04	1.29E-04
2396	257093.7	4085240	0.001423463	2.17E-04	1.17E-04
2397	257083.6	4085218	0.001303285	1.99E-04	1.07E-04
2398	257073.6	4085196	0.001202964	1.83E-04	9.92E-05
2399	257585.3	4085655	0.00282218	4.30E-04	2.33E-04
2400	257609.6	4085654	0.002835368	4.32E-04	2.34E-04
2401	257633.9	4085653	0.002842333	4.33E-04	2.34E-04
2402	257658.1	4085652	0.002842926	4.33E-04	2.34E-04
2403	257682.4	4085651	0.00283685	4.32E-04	2.34E-04
2404	257706.7	4085650	0.002824847	4.30E-04	2.33E-04
2405	257731	4085649	0.002807213	4.28E-04	2.31E-04
2406	257755.3	4085648	0.002785578	4.24E-04	2.30E-04
2407	257779.5	4085647	0.002760831	4.21E-04	2.28E-04
2408	257803.8	4085645	0.002733713	4.16E-04	2.25E-04
2409	257828.1	4085644	0.002704077	4.12E-04	2.23E-04
2410	257852.4	4085643	0.002670883	4.07E-04	2.20E-04
2411	257876.7	4085642	0.002627465	4.00E-04	2.17E-04
2412	257901	4085641	0.002580935	3.93E-04	2.13E-04
2413	257925.2	4085640	0.002531886	3.86E-04	2.09E-04
2414	257949.5	4085639	0.002475724	3.77E-04	2.04E-04
2415	257973.8	4085638	0.002413338	3.68E-04	1.99E-04
2416	257998.1	4085637	0.002348285	3.58E-04	1.94E-04
2417	258022.4	4085636	0.002275971	3.47E-04	1.88E-04
2418	258046.6	4085635	0.002198914	3.35E-04	1.81E-04
2419	258070.9	4085634	0.002120673	3.23E-04	1.75E-04
2420	258095.2	4085633	0.002042876	3.11E-04	1.68E-04
2421	258119.5	4085631	0.001967154	3.00E-04	1.62E-04
2422	258143.8	4085630	0.001893357	2.88E-04	1.56E-04
2423	258168.1	4085629	0.001820747	2.77E-04	1.50E-04
2424	258192.3	4085628	0.00174621	2.66E-04	1.44E-04
2425	258216.6	4085627	0.001662041	2.53E-04	1.37E-04
2426	258240.9	4085626	0.001587504	2.42E-04	1.31E-04
2427	258265.2	4085625	0.001513708	2.31E-04	1.25E-04
2428	258289.5	4085624	0.001440801	2.19E-04	1.19E-04
2429	258313.7	4085623	0.001369524	2.09E-04	1.13E-04
2430	258338	4085622	0.001300618	1.98E-04	1.07E-04
2431	258362.3	4085621	0.001234231	1.88E-04	1.02E-04
2432	258386.6	4085620	0.001175402	1.79E-04	9.69E-05
2433	257566.9	4085747	0.00219847	3.35E-04	1.81E-04
2434	257544.1	4085738	0.002241444	3.41E-04	1.85E-04
2435	257521.3	4085730	0.00228175	3.48E-04	1.88E-04
2436	257498.5	4085722	0.002319092	3.53E-04	1.91E-04

2437	257475.7	4085713	0.00235273	3.58E-04	1.94E-04
2438	257452.9	4085705	0.002382515	3.63E-04	1.96E-04
2439	257430.1	4085697	0.002408596	3.67E-04	1.99E-04
2440	257407.3	4085688	0.00243112	3.70E-04	2.00E-04
2441	257384.5	4085680	0.002449791	3.73E-04	2.02E-04
2442	257361.7	4085672	0.002463128	3.75E-04	2.03E-04
2443	257338.9	4085663	0.002468907	3.76E-04	2.04E-04
2444	257316.1	4085655	0.00246787	3.76E-04	2.03E-04
2445	257293.3	4085647	0.002456015	3.74E-04	2.02E-04
2446	257270.5	4085638	0.002429342	3.70E-04	2.00E-04
2447	257247.7	4085630	0.002394222	3.65E-04	1.97E-04
2448	257224.9	4085622	0.002353323	3.59E-04	1.94E-04
2449	257202.1	4085613	0.002308423	3.52E-04	1.90E-04
2450	257179.3	4085605	0.002260559	3.44E-04	1.86E-04
2451	257146.3	4085575	0.002230033	3.40E-04	1.84E-04
2452	257136.2	4085553	0.002239665	3.41E-04	1.85E-04
2453	257126	4085531	0.002235664	3.41E-04	1.84E-04
2454	257115.9	4085509	0.002215215	3.37E-04	1.83E-04
2455	257105.7	4085487	0.00217639	3.32E-04	1.79E-04
2456	257095.6	4085464	0.002117413	3.23E-04	1.75E-04
2457	257085.4	4085442	0.002038282	3.11E-04	1.68E-04
2458	257075.3	4085420	0.001940184	2.96E-04	1.60E-04
2459	257065.1	4085398	0.001826082	2.78E-04	1.51E-04
2460	257055	4085376	0.001700717	2.59E-04	1.40E-04
2461	257044.8	4085354	0.001570611	2.39E-04	1.29E-04
2462	257034.7	4085332	0.001441838	2.20E-04	1.19E-04
2463	257024.5	4085310	0.001320179	2.01E-04	1.09E-04
2464	257014.3	4085288	0.001209929	1.84E-04	9.97E-05
2465	257004.2	4085266	0.001113313	1.70E-04	9.18E-05
2466	256994	4085244	0.001030774	1.57E-04	8.50E-05
2467	256983.9	4085222	0.000962757	1.47E-04	7.94E-05
2468	256973.7	4085200	0.000907336	1.38E-04	7.48E-05
2469	257589.7	4085755	0.002153422	3.28E-04	1.78E-04
2470	257614	4085754	0.002156089	3.28E-04	1.78E-04
2471	257638.3	4085753	0.002155348	3.28E-04	1.78E-04
2472	257662.6	4085752	0.002150606	3.28E-04	1.77E-04
2473	257686.8	4085751	0.002141863	3.26E-04	1.77E-04
2474	257711.1	4085750	0.002128675	3.24E-04	1.75E-04
2475	257735.4	4085749	0.002111485	3.22E-04	1.74E-04
2476	257759.7	4085747	0.002090295	3.18E-04	1.72E-04
2477	257784	4085746	0.002065845	3.15E-04	1.70E-04
2478	257808.2	4085745	0.002034726	3.10E-04	1.68E-04
2479	257832.5	4085744	0.001997383	3.04E-04	1.65E-04
2480	257856.8	4085743	0.001964041	2.99E-04	1.62E-04
2481	257881.1	4085742	0.001930107	2.94E-04	1.59E-04
2482	257905.4	4085741	0.001893061	2.88E-04	1.56E-04
2483	257929.7	4085740	0.00185231	2.82E-04	1.53E-04

2484	257953.9	4085739	0.001807558	2.75E-04	1.49E-04
2485	257978.2	4085738	0.001759398	2.68E-04	1.45E-04
2486	258002.5	4085737	0.001709016	2.60E-04	1.41E-04
2487	258026.8	4085736	0.001657595	2.53E-04	1.37E-04
2488	258051.1	4085735	0.001606472	2.45E-04	1.32E-04
2489	258075.3	4085734	0.00155683	2.37E-04	1.28E-04
2490	258099.6	4085732	0.001508373	2.30E-04	1.24E-04
2491	258123.9	4085731	0.001461102	2.23E-04	1.20E-04
2492	258148.2	4085730	0.001413831	2.15E-04	1.17E-04
2493	258172.5	4085729	0.001365819	2.08E-04	1.13E-04
2494	258196.8	4085728	0.00131677	2.01E-04	1.09E-04
2495	258221	4085727	0.001266536	1.93E-04	1.04E-04
2496	258245.3	4085726	0.001216005	1.85E-04	1.00E-04
2497	258269.6	4085725	0.00116577	1.78E-04	9.61E-05
2498	258293.9	4085724	0.001116424	1.70E-04	9.20E-05
2499	258318.2	4085723	0.001068116	1.63E-04	8.80E-05
2500	258342.4	4085722	0.001020845	1.56E-04	8.41E-05
2501	258366.7	4085721	0.000975204	1.49E-04	8.04E-05
2502	258391	4085720	0.000931638	1.42E-04	7.68E-05
2503	257572.2	4085847	0.001740283	2.65E-04	1.43E-04
2504	257550.2	4085839	0.001771698	2.70E-04	1.46E-04
2505	257528.2	4085831	0.001801927	2.75E-04	1.49E-04
2506	257506.2	4085823	0.00183112	2.79E-04	1.51E-04
2507	257484.3	4085815	0.00185883	2.83E-04	1.53E-04
2508	257462.3	4085807	0.001885059	2.87E-04	1.55E-04
2509	257440.3	4085799	0.001909658	2.91E-04	1.57E-04
2510	257418.3	4085791	0.001932478	2.94E-04	1.59E-04
2511	257396.4	4085783	0.001953817	2.98E-04	1.61E-04
2512	257374.4	4085775	0.001973822	3.01E-04	1.63E-04
2513	257352.4	4085767	0.001992197	3.03E-04	1.64E-04
2514	257330.4	4085759	0.002007756	3.06E-04	1.65E-04
2515	257308.5	4085751	0.00201887	3.08E-04	1.66E-04
2516	257286.5	4085743	0.002024205	3.08E-04	1.67E-04
2517	257264.5	4085735	0.002022426	3.08E-04	1.67E-04
2518	257242.5	4085726	0.002013684	3.07E-04	1.66E-04
2519	257220.6	4085718	0.002001977	3.05E-04	1.65E-04
2520	257198.6	4085710	0.001984639	3.02E-04	1.64E-04
2521	257176.6	4085702	0.001961967	2.99E-04	1.62E-04
2522	257154.6	4085694	0.00193722	2.95E-04	1.60E-04
2523	257132.7	4085686	0.001911139	2.91E-04	1.58E-04
2524	257110.7	4085678	0.001883429	2.87E-04	1.55E-04
2525	257078.9	4085649	0.001874834	2.86E-04	1.55E-04
2526	257069.1	4085628	0.00188906	2.88E-04	1.56E-04
2527	257059.4	4085607	0.001894691	2.89E-04	1.56E-04
2528	257049.6	4085585	0.001890246	2.88E-04	1.56E-04
2529	257039.8	4085564	0.001873649	2.85E-04	1.54E-04
2530	257030	4085543	0.00184416	2.81E-04	1.52E-04

2531	257020.2	4085522	0.001800742	2.74E-04	1.48E-04
2532	257010.4	4085500	0.001743542	2.66E-04	1.44E-04
2533	257000.6	4085479	0.001673155	2.55E-04	1.38E-04
2534	256990.9	4085458	0.00159106	2.42E-04	1.31E-04
2535	256981.1	4085437	0.001499927	2.29E-04	1.24E-04
2536	256971.3	4085415	0.001402866	2.14E-04	1.16E-04
2537	256961.5	4085394	0.00130373	1.99E-04	1.07E-04
2538	256951.7	4085373	0.001206521	1.84E-04	9.95E-05
2539	256941.9	4085352	0.001114794	1.70E-04	9.19E-05
2540	256932.1	4085330	0.00103107	1.57E-04	8.50E-05
2541	256922.4	4085309	0.000956385	1.46E-04	7.88E-05
2542	256912.6	4085288	0.000892517	1.36E-04	7.36E-05
2543	256902.8	4085267	0.000838874	1.28E-04	6.91E-05
2544	256893	4085245	0.000793974	1.21E-04	6.54E-05
2545	256883.2	4085224	0.000756632	1.15E-04	6.24E-05
2546	256873.4	4085203	0.000725217	1.10E-04	5.98E-05
2547	257594.1	4085855	0.001707682	2.60E-04	1.41E-04
2548	257618.4	4085854	0.001705904	2.60E-04	1.41E-04
2549	257642.7	4085853	0.001701606	2.59E-04	1.40E-04
2550	257667	4085852	0.001694345	2.58E-04	1.40E-04
2551	257691.3	4085851	0.001683972	2.57E-04	1.39E-04
2552	257715.5	4085850	0.001670191	2.54E-04	1.38E-04
2553	257739.8	4085848	0.001652557	2.52E-04	1.36E-04
2554	257764.1	4085847	0.001623661	2.47E-04	1.34E-04
2555	257788.4	4085846	0.00159847	2.44E-04	1.32E-04
2556	257812.7	4085845	0.001571945	2.39E-04	1.30E-04
2557	257837	4085844	0.001543197	2.35E-04	1.27E-04
2558	257861.2	4085843	0.001512671	2.30E-04	1.25E-04
2559	257885.5	4085842	0.001480663	2.26E-04	1.22E-04
2560	257909.8	4085841	0.001447617	2.21E-04	1.19E-04
2561	257934.1	4085840	0.00141398	2.15E-04	1.17E-04
2562	257958.4	4085839	0.001380193	2.10E-04	1.14E-04
2563	257982.6	4085838	0.001346259	2.05E-04	1.11E-04
2564	258006.9	4085837	0.001312917	2.00E-04	1.08E-04
2565	258031.2	4085836	0.00128002	1.95E-04	1.06E-04
2566	258055.5	4085834	0.001247716	1.90E-04	1.03E-04
2567	258079.8	4085833	0.001215708	1.85E-04	1.00E-04
2568	258104.1	4085832	0.001183552	1.80E-04	9.76E-05
2569	258128.3	4085831	0.001150507	1.75E-04	9.48E-05
2570	258152.6	4085830	0.001116424	1.70E-04	9.20E-05
2571	258176.9	4085829	0.001081305	1.65E-04	8.91E-05
2572	258201.2	4085828	0.001045296	1.59E-04	8.62E-05
2573	258225.5	4085827	0.001009139	1.54E-04	8.32E-05
2574	258249.7	4085826	0.00097313	1.48E-04	8.02E-05
2575	258274	4085825	0.000937714	1.43E-04	7.73E-05
2576	258298.3	4085824	0.000903038	1.38E-04	7.44E-05
2577	258322.6	4085823	0.000868956	1.32E-04	7.16E-05

2578	258346.9	4085822	0.000835614	1.27E-04	6.89E-05
2579	258371.2	4085821	0.000803162	1.22E-04	6.62E-05
2580	258395.4	4085819	0.000771747	1.18E-04	6.36E-05
2581	257580.6	4086047	0.001183256	1.80E-04	9.75E-05
2582	257558.2	4086038	0.001206669	1.84E-04	9.95E-05
2583	257535.8	4086030	0.001230823	1.88E-04	1.01E-04
2584	257513.4	4086022	0.001251124	1.91E-04	1.03E-04
2585	257490.9	4086014	0.001270092	1.93E-04	1.05E-04
2586	257468.5	4086006	0.001288022	1.96E-04	1.06E-04
2587	257446.1	4085997	0.001304916	1.99E-04	1.08E-04
2588	257423.7	4085989	0.001320771	2.01E-04	1.09E-04
2589	257401.3	4085981	0.001335738	2.03E-04	1.10E-04
2590	257378.9	4085973	0.001350408	2.06E-04	1.11E-04
2591	257356.5	4085965	0.00136493	2.08E-04	1.13E-04
2592	257334.1	4085956	0.001379749	2.10E-04	1.14E-04
2593	257311.7	4085948	0.001394716	2.12E-04	1.15E-04
2594	257289.3	4085940	0.001409682	2.15E-04	1.16E-04
2595	257266.9	4085932	0.001423908	2.17E-04	1.17E-04
2596	257244.5	4085924	0.001436504	2.19E-04	1.18E-04
2597	257222.1	4085916	0.001446432	2.20E-04	1.19E-04
2598	257199.6	4085907	0.001452804	2.21E-04	1.20E-04
2599	257177.2	4085899	0.001455323	2.22E-04	1.20E-04
2600	257154.8	4085891	0.001453989	2.22E-04	1.20E-04
2601	257132.4	4085883	0.001449692	2.21E-04	1.19E-04
2602	257110	4085875	0.001443172	2.20E-04	1.19E-04
2603	257087.6	4085866	0.001435466	2.19E-04	1.18E-04
2604	257065.2	4085858	0.001427168	2.17E-04	1.18E-04
2605	257042.8	4085850	0.00141887	2.16E-04	1.17E-04
2606	257020.4	4085842	0.001410275	2.15E-04	1.16E-04
2607	256998	4085834	0.001401532	2.14E-04	1.16E-04
2608	256975.6	4085826	0.001392048	2.12E-04	1.15E-04
2609	256943.2	4085796	0.001402125	2.14E-04	1.16E-04
2610	256933.2	4085774	0.0014205	2.16E-04	1.17E-04
2611	256923.2	4085752	0.001435911	2.19E-04	1.18E-04
2612	256913.2	4085731	0.001443913	2.20E-04	1.19E-04
2613	256903.3	4085709	0.001445247	2.20E-04	1.19E-04
2614	256893.3	4085687	0.001439171	2.19E-04	1.19E-04
2615	256883.3	4085666	0.001424649	2.17E-04	1.17E-04
2616	256873.3	4085644	0.001401532	2.14E-04	1.16E-04
2617	256863.4	4085622	0.001369524	2.09E-04	1.13E-04
2618	256853.4	4085601	0.00132907	2.02E-04	1.10E-04
2619	256843.4	4085579	0.001280317	1.95E-04	1.06E-04
2620	256833.4	4085557	0.001224451	1.87E-04	1.01E-04
2621	256823.4	4085536	0.001162658	1.77E-04	9.58E-05
2622	256813.5	4085514	0.00109642	1.67E-04	9.04E-05
2623	256803.5	4085492	0.001027958	1.57E-04	8.47E-05
2624	256793.5	4085471	0.000959497	1.46E-04	7.91E-05

2625	256783.5	4085449	0.000893258	1.36E-04	7.36E-05
2626	256773.5	4085427	0.000831317	1.27E-04	6.85E-05
2627	256763.6	4085406	0.000775155	1.18E-04	6.39E-05
2628	256753.6	4085384	0.000725809	1.11E-04	5.98E-05
2629	256743.6	4085362	0.000683428	1.04E-04	5.63E-05
2630	256733.6	4085341	0.000647716	9.87E-05	5.34E-05
2631	256723.7	4085319	0.000617486	9.41E-05	5.09E-05
2632	256713.7	4085297	0.000591998	9.02E-05	4.88E-05
2633	256703.7	4085276	0.000570067	8.68E-05	4.70E-05
2634	256693.7	4085254	0.000550655	8.39E-05	4.54E-05
2635	256683.7	4085232	0.000533465	8.13E-05	4.40E-05
2636	256673.8	4085211	0.000518499	7.90E-05	4.27E-05
2637	257603	4086055	0.001159546	1.77E-04	9.56E-05
2638	257627.3	4086054	0.00115273	1.76E-04	9.50E-05
2639	257651.6	4086053	0.001143987	1.74E-04	9.43E-05
2640	257675.8	4086051	0.001133466	1.73E-04	9.34E-05
2641	257700.1	4086050	0.00112087	1.71E-04	9.24E-05
2642	257724.4	4086049	0.0011062	1.69E-04	9.12E-05
2643	257748.7	4086048	0.001089158	1.66E-04	8.98E-05
2644	257773	4086047	0.001070191	1.63E-04	8.82E-05
2645	257797.2	4086046	0.001049297	1.60E-04	8.65E-05
2646	257821.5	4086045	0.001027069	1.56E-04	8.47E-05
2647	257845.8	4086044	0.0010041	1.53E-04	8.28E-05
2648	257870.1	4086043	0.000981132	1.49E-04	8.09E-05
2649	257894.4	4086042	0.000958904	1.46E-04	7.90E-05
2650	257918.7	4086041	0.000937862	1.43E-04	7.73E-05
2651	257942.9	4086040	0.00091845	1.40E-04	7.57E-05
2652	257967.2	4086039	0.000900667	1.37E-04	7.42E-05
2653	257991.5	4086038	0.000884367	1.35E-04	7.29E-05
2654	258015.8	4086036	0.000868808	1.32E-04	7.16E-05
2655	258040.1	4086035	0.000853396	1.30E-04	7.03E-05
2656	258064.3	4086034	0.000837837	1.28E-04	6.91E-05
2657	258088.6	4086033	0.00082124	1.25E-04	6.77E-05
2658	258112.9	4086032	0.000803606	1.22E-04	6.62E-05
2659	258137.2	4086031	0.000784787	1.20E-04	6.47E-05
2660	258161.5	4086030	0.00076493	1.17E-04	6.31E-05
2661	258185.8	4086029	0.000744481	1.13E-04	6.14E-05
2662	258210	4086028	0.000723883	1.10E-04	5.97E-05
2663	258234.3	4086027	0.000703285	1.07E-04	5.80E-05
2664	258258.6	4086026	0.000682984	1.04E-04	5.63E-05
2665	258282.9	4086025	0.000662979	1.01E-04	5.46E-05
2666	258307.2	4086024	0.00064327	9.80E-05	5.30E-05
2667	258331.4	4086022	0.000623858	9.50E-05	5.14E-05
2668	258355.7	4086021	0.00060489	9.22E-05	4.99E-05
2669	258380	4086020	0.000586367	8.93E-05	4.83E-05
2670	258404.3	4086019	0.000568585	8.66E-05	4.69E-05
2671	257589.1	4086246	0.000865548	1.32E-04	7.13E-05

2672	257566.5	4086238	0.000883626	1.35E-04	7.28E-05
2673	257543.8	4086230	0.000900667	1.37E-04	7.42E-05
2674	257521.1	4086221	0.000916968	1.40E-04	7.56E-05
2675	257498.4	4086213	0.000932527	1.42E-04	7.69E-05
2676	257475.7	4086205	0.000947346	1.44E-04	7.81E-05
2677	257453	4086196	0.000961275	1.46E-04	7.92E-05
2678	257430.3	4086188	0.000974463	1.48E-04	8.03E-05
2679	257407.6	4086180	0.000986763	1.50E-04	8.13E-05
2680	257384.9	4086172	0.000998173	1.52E-04	8.23E-05
2681	257362.2	4086163	0.001008546	1.54E-04	8.31E-05
2682	257339.5	4086155	0.001019215	1.55E-04	8.40E-05
2683	257316.8	4086147	0.001031514	1.57E-04	8.50E-05
2684	257294.1	4086138	0.001042332	1.59E-04	8.59E-05
2685	257271.4	4086130	0.001052409	1.60E-04	8.67E-05
2686	257248.8	4086122	0.001062781	1.62E-04	8.76E-05
2687	257226.1	4086114	0.001073303	1.64E-04	8.85E-05
2688	257203.4	4086105	0.001083676	1.65E-04	8.93E-05
2689	257180.7	4086097	0.001093456	1.67E-04	9.01E-05
2690	257158	4086089	0.001102199	1.68E-04	9.09E-05
2691	257135.3	4086080	0.001109163	1.69E-04	9.14E-05
2692	257112.6	4086072	0.001113905	1.70E-04	9.18E-05
2693	257089.9	4086064	0.001116573	1.70E-04	9.20E-05
2694	257067.2	4086056	0.001117017	1.70E-04	9.21E-05
2695	257044.5	4086047	0.00111598	1.70E-04	9.20E-05
2696	257021.8	4086039	0.001113757	1.70E-04	9.18E-05
2697	256999.1	4086031	0.001110942	1.69E-04	9.16E-05
2698	256976.4	4086022	0.001108274	1.69E-04	9.14E-05
2699	256953.8	4086014	0.001105607	1.68E-04	9.11E-05
2700	256931.1	4086006	0.001103384	1.68E-04	9.10E-05
2701	256908.4	4085998	0.00110131	1.68E-04	9.08E-05
2702	256885.7	4085989	0.001099235	1.67E-04	9.06E-05
2703	256863	4085981	0.001097012	1.67E-04	9.04E-05
2704	256840.3	4085973	0.001094493	1.67E-04	9.02E-05
2705	256807.5	4085942	0.00110946	1.69E-04	9.15E-05
2706	256797.4	4085920	0.001126056	1.72E-04	9.28E-05
2707	256787.3	4085899	0.001140875	1.74E-04	9.40E-05
2708	256777.2	4085877	0.001152878	1.76E-04	9.50E-05
2709	256767.1	4085855	0.001161621	1.77E-04	9.58E-05
2710	256757	4085833	0.001165918	1.78E-04	9.61E-05
2711	256746.9	4085811	0.001165325	1.78E-04	9.61E-05
2712	256736.8	4085789	0.001159398	1.77E-04	9.56E-05
2713	256726.7	4085767	0.001147543	1.75E-04	9.46E-05
2714	256716.5	4085745	0.001129761	1.72E-04	9.31E-05
2715	256706.4	4085723	0.001106051	1.69E-04	9.12E-05
2716	256696.3	4085701	0.001078637	1.64E-04	8.89E-05
2717	256686.2	4085679	0.001043517	1.59E-04	8.60E-05
2718	256676.1	4085657	0.001003359	1.53E-04	8.27E-05

2719	256666	4085635	0.000958904	1.46E-04	7.90E-05
2720	256655.9	4085613	0.000910744	1.39E-04	7.51E-05
2721	256645.8	4085591	0.000860361	1.31E-04	7.09E-05
2722	256635.7	4085569	0.000808793	1.23E-04	6.67E-05
2723	256625.6	4085547	0.000757817	1.15E-04	6.25E-05
2724	256615.5	4085526	0.000708916	1.08E-04	5.84E-05
2725	256605.4	4085504	0.000663423	1.01E-04	5.47E-05
2726	256595.3	4085482	0.000622228	9.48E-05	5.13E-05
2727	256585.2	4085460	0.000585923	8.93E-05	4.83E-05
2728	256575.1	4085438	0.000554804	8.45E-05	4.57E-05
2729	256565	4085416	0.000528575	8.05E-05	4.36E-05
2730	256554.9	4085394	0.000506644	7.72E-05	4.18E-05
2731	256544.8	4085372	0.000488121	7.44E-05	4.02E-05
2732	256534.7	4085350	0.000472117	7.19E-05	3.89E-05
2733	256524.5	4085328	0.000458039	6.98E-05	3.78E-05
2734	256514.4	4085306	0.000445295	6.78E-05	3.67E-05
2735	256504.3	4085284	0.000433292	6.60E-05	3.57E-05
2736	256494.2	4085262	0.000422327	6.43E-05	3.48E-05
2737	256484.1	4085240	0.000412102	6.28E-05	3.40E-05
2738	256474	4085218	0.000403063	6.14E-05	3.32E-05
2739	257611.8	4086255	0.000846432	1.29E-04	6.98E-05
2740	257636.1	4086253	0.000837096	1.28E-04	6.90E-05
2741	257660.4	4086252	0.000826723	1.26E-04	6.81E-05
2742	257684.7	4086251	0.000815313	1.24E-04	6.72E-05
2743	257709	4086250	0.000803162	1.22E-04	6.62E-05
2744	257733.2	4086249	0.00079027	1.20E-04	6.51E-05
2745	257757.5	4086248	0.000777229	1.18E-04	6.41E-05
2746	257781.8	4086247	0.000763893	1.16E-04	6.30E-05
2747	257806.1	4086246	0.000750112	1.14E-04	6.18E-05
2748	257830.4	4086245	0.000736034	1.12E-04	6.07E-05
2749	257854.7	4086244	0.00072329	1.10E-04	5.96E-05
2750	257878.9	4086243	0.000709805	1.08E-04	5.85E-05
2751	257903.2	4086242	0.000696913	1.06E-04	5.74E-05
2752	257927.5	4086241	0.000684762	1.04E-04	5.64E-05
2753	257951.8	4086239	0.000672759	1.02E-04	5.55E-05
2754	257976.1	4086238	0.000660904	1.01E-04	5.45E-05
2755	258000.3	4086237	0.00064905	9.89E-05	5.35E-05
2756	258024.6	4086236	0.000637195	9.71E-05	5.25E-05
2757	258048.9	4086235	0.00062534	9.53E-05	5.15E-05
2758	258073.2	4086234	0.000613485	9.35E-05	5.06E-05
2759	258097.5	4086233	0.00060163	9.17E-05	4.96E-05
2760	258121.8	4086232	0.000591406	9.01E-05	4.87E-05
2761	258146	4086231	0.000580144	8.84E-05	4.78E-05
2762	258170.3	4086230	0.000568289	8.66E-05	4.68E-05
2763	258194.6	4086229	0.000556434	8.48E-05	4.59E-05
2764	258218.9	4086228	0.000544727	8.30E-05	4.49E-05
2765	258243.2	4086227	0.000532873	8.12E-05	4.39E-05

2766	258267.4	4086225	0.00052087	7.94E-05	4.29E-05
2767	258291.7	4086224	0.000508719	7.75E-05	4.19E-05
2768	258316	4086223	0.000496419	7.56E-05	4.09E-05
2769	258340.3	4086222	0.00048412	7.38E-05	3.99E-05
2770	258364.6	4086221	0.000471969	7.19E-05	3.89E-05
2771	258388.9	4086220	0.000459966	7.01E-05	3.79E-05
2772	258413.1	4086219	0.000447963	6.82E-05	3.69E-05
2773	257598.3	4086446	0.000660312	1.01E-04	5.44E-05
2774	257576	4086438	0.00067513	1.03E-04	5.57E-05
2775	257553.6	4086430	0.000689652	1.05E-04	5.68E-05
2776	257531.3	4086422	0.00070373	1.07E-04	5.80E-05
2777	257508.9	4086414	0.000717363	1.09E-04	5.91E-05
2778	257486.6	4086405	0.000730551	1.11E-04	6.02E-05
2779	257464.2	4086397	0.000742999	1.13E-04	6.12E-05
2780	257441.9	4086389	0.000754853	1.15E-04	6.22E-05
2781	257419.5	4086381	0.000765967	1.17E-04	6.31E-05
2782	257397.2	4086373	0.00077634	1.18E-04	6.40E-05
2783	257374.9	4086365	0.000785972	1.20E-04	6.48E-05
2784	257352.5	4086356	0.000795012	1.21E-04	6.55E-05
2785	257330.2	4086348	0.00080331	1.22E-04	6.62E-05
2786	257307.8	4086340	0.000811312	1.24E-04	6.69E-05
2787	257285.5	4086332	0.000819018	1.25E-04	6.75E-05
2788	257263.1	4086324	0.000826575	1.26E-04	6.81E-05
2789	257240.8	4086316	0.000834132	1.27E-04	6.88E-05
2790	257218.4	4086307	0.00084169	1.28E-04	6.94E-05
2791	257196.1	4086299	0.000849247	1.29E-04	7.00E-05
2792	257173.7	4086291	0.000856953	1.31E-04	7.06E-05
2793	257151.4	4086283	0.000866585	1.32E-04	7.14E-05
2794	257129	4086275	0.000875031	1.33E-04	7.21E-05
2795	257106.7	4086267	0.000881848	1.34E-04	7.27E-05
2796	257084.3	4086258	0.000887775	1.35E-04	7.32E-05
2797	257062	4086250	0.000892665	1.36E-04	7.36E-05
2798	257039.6	4086242	0.00089637	1.37E-04	7.39E-05
2799	257017.3	4086234	0.000898593	1.37E-04	7.41E-05
2800	256994.9	4086226	0.00089963	1.37E-04	7.42E-05
2801	256972.6	4086218	0.000897852	1.37E-04	7.40E-05
2802	256950.2	4086209	0.000895777	1.36E-04	7.38E-05
2803	256927.9	4086201	0.000894592	1.36E-04	7.37E-05
2804	256905.5	4086193	0.000893554	1.36E-04	7.37E-05
2805	256883.2	4086185	0.000892665	1.36E-04	7.36E-05
2806	256860.8	4086177	0.000892221	1.36E-04	7.35E-05
2807	256838.5	4086169	0.000892221	1.36E-04	7.35E-05
2808	256816.1	4086160	0.000892517	1.36E-04	7.36E-05
2809	256793.8	4086152	0.000892962	1.36E-04	7.36E-05
2810	256771.4	4086144	0.000893554	1.36E-04	7.37E-05
2811	256749.1	4086136	0.000894147	1.36E-04	7.37E-05
2812	256726.7	4086128	0.000894592	1.36E-04	7.37E-05

2813	256704.4	4086120	0.000894888	1.36E-04	7.38E-05
2814	256672.1	4086090	0.000909558	1.39E-04	7.50E-05
2815	256662.1	4086068	0.000924525	1.41E-04	7.62E-05
2816	256652.2	4086047	0.000939788	1.43E-04	7.75E-05
2817	256642.2	4086025	0.000951939	1.45E-04	7.85E-05
2818	256632.3	4086003	0.00096246	1.47E-04	7.93E-05
2819	256622.3	4085982	0.000971055	1.48E-04	8.00E-05
2820	256612.4	4085960	0.000976834	1.49E-04	8.05E-05
2821	256602.4	4085939	0.000979798	1.49E-04	8.08E-05
2822	256592.5	4085917	0.000979205	1.49E-04	8.07E-05
2823	256582.5	4085895	0.000974908	1.49E-04	8.04E-05
2824	256572.6	4085874	0.00096661	1.47E-04	7.97E-05
2825	256562.6	4085852	0.000954458	1.45E-04	7.87E-05
2826	256552.7	4085830	0.000938158	1.43E-04	7.73E-05
2827	256542.7	4085809	0.000918005	1.40E-04	7.57E-05
2828	256532.8	4085787	0.000893851	1.36E-04	7.37E-05
2829	256522.8	4085766	0.000865992	1.32E-04	7.14E-05
2830	256512.9	4085744	0.000834725	1.27E-04	6.88E-05
2831	256502.9	4085722	0.000800494	1.22E-04	6.60E-05
2832	256493	4085701	0.000765226	1.17E-04	6.31E-05
2833	256483	4085679	0.000726698	1.11E-04	5.99E-05
2834	256473	4085658	0.000687281	1.05E-04	5.67E-05
2835	256463.1	4085636	0.000648012	9.87E-05	5.34E-05
2836	256453.1	4085614	0.000609781	9.29E-05	5.03E-05
2837	256443.2	4085593	0.000573624	8.74E-05	4.73E-05
2838	256433.2	4085571	0.000540282	8.23E-05	4.45E-05
2839	256423.3	4085550	0.0005102	7.77E-05	4.21E-05
2840	256413.3	4085528	0.000483972	7.37E-05	3.99E-05
2841	256403.4	4085506	0.000461299	7.03E-05	3.80E-05
2842	256393.4	4085485	0.000442332	6.74E-05	3.65E-05
2843	256383.5	4085463	0.000426328	6.49E-05	3.51E-05
2844	256373.5	4085441	0.000412843	6.29E-05	3.40E-05
2845	256363.6	4085420	0.000401433	6.12E-05	3.31E-05
2846	256353.6	4085398	0.000391356	5.96E-05	3.23E-05
2847	256343.7	4085377	0.000382169	5.82E-05	3.15E-05
2848	256333.7	4085355	0.000373574	5.69E-05	3.08E-05
2849	256323.8	4085333	0.000365276	5.56E-05	3.01E-05
2850	256313.8	4085312	0.000357274	5.44E-05	2.94E-05
2851	256303.9	4085290	0.000349568	5.33E-05	2.88E-05
2852	256293.9	4085269	0.000342307	5.21E-05	2.82E-05
2853	256284	4085247	0.000335639	5.11E-05	2.77E-05
2854	256274	4085225	0.000329711	5.02E-05	2.72E-05
2855	257620.7	4086454	0.000645493	9.83E-05	5.32E-05
2856	257645	4086453	0.000637343	9.71E-05	5.25E-05
2857	257669.2	4086452	0.000629193	9.59E-05	5.19E-05
2858	257693.5	4086451	0.000620746	9.46E-05	5.12E-05
2859	257717.8	4086450	0.0006123	9.33E-05	5.05E-05

2860	257742.1	4086449	0.000603853	9.20E-05	4.98E-05
2861	257766.4	4086448	0.000596592	9.09E-05	4.92E-05
2862	257790.7	4086447	0.000589479	8.98E-05	4.86E-05
2863	257814.9	4086446	0.000582366	8.87E-05	4.80E-05
2864	257839.2	4086445	0.000575105	8.76E-05	4.74E-05
2865	257863.5	4086444	0.000567696	8.65E-05	4.68E-05
2866	257887.8	4086443	0.000559842	8.53E-05	4.61E-05
2867	257912.1	4086441	0.000551692	8.40E-05	4.55E-05
2868	257936.3	4086440	0.000542801	8.27E-05	4.47E-05
2869	257960.6	4086439	0.000533614	8.13E-05	4.40E-05
2870	257984.9	4086438	0.000523833	7.98E-05	4.32E-05
2871	258009.2	4086437	0.000513609	7.82E-05	4.23E-05
2872	258033.5	4086436	0.000503236	7.67E-05	4.15E-05
2873	258057.8	4086435	0.000492863	7.51E-05	4.06E-05
2874	258082	4086434	0.00048249	7.35E-05	3.98E-05
2875	258106.3	4086433	0.000472413	7.20E-05	3.89E-05
2876	258130.6	4086432	0.000462929	7.05E-05	3.82E-05
2877	258154.9	4086431	0.000454038	6.92E-05	3.74E-05
2878	258179.2	4086430	0.00044574	6.79E-05	3.67E-05
2879	258203.4	4086429	0.000437886	6.67E-05	3.61E-05
2880	258227.7	4086427	0.000430477	6.56E-05	3.55E-05
2881	258252	4086426	0.000423364	6.45E-05	3.49E-05
2882	258276.3	4086425	0.000416103	6.34E-05	3.43E-05
2883	258300.6	4086424	0.000408694	6.23E-05	3.37E-05
2884	258324.9	4086423	0.000401136	6.11E-05	3.31E-05
2885	258349.1	4086422	0.000393431	5.99E-05	3.24E-05
2886	258373.4	4086421	0.000385577	5.87E-05	3.18E-05
2887	258397.7	4086420	0.000377723	5.75E-05	3.11E-05
2888	258422	4086419	0.000369869	5.63E-05	3.05E-05
2889	257607	4086646	0.000525463	8.01E-05	4.33E-05
2890	257584.4	4086638	0.000535392	8.16E-05	4.41E-05
2891	257561.8	4086629	0.000545913	8.32E-05	4.50E-05
2892	257539.3	4086621	0.000556582	8.48E-05	4.59E-05
2893	257516.7	4086613	0.000567696	8.65E-05	4.68E-05
2894	257494.2	4086605	0.000578958	8.82E-05	4.77E-05
2895	257471.6	4086596	0.00059022	8.99E-05	4.87E-05
2896	257449	4086588	0.000601334	9.16E-05	4.96E-05
2897	257426.5	4086580	0.000612003	9.32E-05	5.04E-05
2898	257403.9	4086572	0.000622228	9.48E-05	5.13E-05
2899	257381.3	4086563	0.00063186	9.63E-05	5.21E-05
2900	257358.8	4086555	0.000640603	9.76E-05	5.28E-05
2901	257336.2	4086547	0.000648753	9.88E-05	5.35E-05
2902	257313.6	4086539	0.000656162	1.00E-04	5.41E-05
2903	257291.1	4086530	0.000663127	1.01E-04	5.47E-05
2904	257268.5	4086522	0.000669795	1.02E-04	5.52E-05
2905	257246	4086514	0.00067676	1.03E-04	5.58E-05
2906	257223.4	4086506	0.000684317	1.04E-04	5.64E-05

2907	257200.8	4086498	0.000691134	1.05E-04	5.70E-05
2908	257178.3	4086489	0.000697654	1.06E-04	5.75E-05
2909	257155.7	4086481	0.000704322	1.07E-04	5.81E-05
2910	257133.1	4086473	0.000710843	1.08E-04	5.86E-05
2911	257110.6	4086465	0.000717363	1.09E-04	5.91E-05
2912	257088	4086456	0.000723735	1.10E-04	5.97E-05
2913	257065.4	4086448	0.000729662	1.11E-04	6.01E-05
2914	257042.9	4086440	0.000735145	1.12E-04	6.06E-05
2915	257020.3	4086432	0.000740035	1.13E-04	6.10E-05
2916	256997.8	4086423	0.000744036	1.13E-04	6.13E-05
2917	256975.2	4086415	0.000747	1.14E-04	6.16E-05
2918	256952.6	4086407	0.000749074	1.14E-04	6.17E-05
2919	256930.1	4086399	0.000750112	1.14E-04	6.18E-05
2920	256907.5	4086390	0.000750112	1.14E-04	6.18E-05
2921	256884.9	4086382	0.000749667	1.14E-04	6.18E-05
2922	256862.4	4086374	0.00074863	1.14E-04	6.17E-05
2923	256839.8	4086366	0.000747592	1.14E-04	6.16E-05
2924	256817.2	4086357	0.000746555	1.14E-04	6.15E-05
2925	256794.7	4086349	0.000745962	1.14E-04	6.15E-05
2926	256772.1	4086341	0.000745814	1.14E-04	6.15E-05
2927	256749.6	4086333	0.000746259	1.14E-04	6.15E-05
2928	256727	4086324	0.000747	1.14E-04	6.16E-05
2929	256704.4	4086316	0.000748185	1.14E-04	6.17E-05
2930	256681.9	4086308	0.000749667	1.14E-04	6.18E-05
2931	256659.3	4086300	0.000751297	1.14E-04	6.19E-05
2932	256636.7	4086291	0.000752927	1.15E-04	6.21E-05
2933	256614.2	4086283	0.000755594	1.15E-04	6.23E-05
2934	256591.6	4086275	0.00075841	1.16E-04	6.25E-05
2935	256569	4086267	0.000759892	1.16E-04	6.26E-05
2936	256536.4	4086237	0.00077308	1.18E-04	6.37E-05
2937	256526.4	4086215	0.000784935	1.20E-04	6.47E-05
2938	256516.3	4086193	0.000796493	1.21E-04	6.57E-05
2939	256506.3	4086171	0.000807459	1.23E-04	6.66E-05
2940	256496.2	4086149	0.000817684	1.25E-04	6.74E-05
2941	256486.2	4086128	0.000826723	1.26E-04	6.81E-05
2942	256476.1	4086106	0.000834429	1.27E-04	6.88E-05
2943	256466.1	4086084	0.000840356	1.28E-04	6.93E-05
2944	256456.1	4086062	0.000844357	1.29E-04	6.96E-05
2945	256446	4086040	0.000845839	1.29E-04	6.97E-05
2946	256436	4086018	0.00084495	1.29E-04	6.96E-05
2947	256425.9	4085997	0.000841245	1.28E-04	6.93E-05
2948	256415.9	4085975	0.000834725	1.27E-04	6.88E-05
2949	256405.8	4085953	0.000825241	1.26E-04	6.80E-05
2950	256395.8	4085931	0.000812646	1.24E-04	6.70E-05
2951	256385.7	4085909	0.000797234	1.21E-04	6.57E-05
2952	256375.7	4085888	0.000779304	1.19E-04	6.42E-05
2953	256365.6	4085866	0.000758854	1.16E-04	6.26E-05

2954	256355.6	4085844	0.000733959	1.12E-04	6.05E-05
2955	256345.5	4085822	0.000707138	1.08E-04	5.83E-05
2956	256335.5	4085800	0.000677946	1.03E-04	5.59E-05
2957	256325.4	4085778	0.00064742	9.86E-05	5.34E-05
2958	256315.4	4085757	0.000615708	9.38E-05	5.08E-05
2959	256305.3	4085735	0.0005837	8.89E-05	4.81E-05
2960	256295.3	4085713	0.000552285	8.41E-05	4.55E-05
2961	256285.2	4085691	0.000522055	7.95E-05	4.30E-05
2962	256275.2	4085669	0.000492715	7.51E-05	4.06E-05
2963	256265.1	4085648	0.000465745	7.10E-05	3.84E-05
2964	256255.1	4085626	0.000441294	6.72E-05	3.64E-05
2965	256245.1	4085604	0.000419659	6.39E-05	3.46E-05
2966	256235	4085582	0.00040084	6.11E-05	3.30E-05
2967	256225	4085560	0.000384984	5.87E-05	3.17E-05
2968	256214.9	4085538	0.000371648	5.66E-05	3.06E-05
2969	256204.9	4085517	0.000360534	5.49E-05	2.97E-05
2970	256194.8	4085495	0.000351198	5.35E-05	2.89E-05
2971	256184.8	4085473	0.000343344	5.23E-05	2.83E-05
2972	256174.7	4085451	0.000336231	5.12E-05	2.77E-05
2973	256164.7	4085429	0.000329859	5.03E-05	2.72E-05
2974	256154.6	4085408	0.000323636	4.93E-05	2.67E-05
2975	256144.6	4085386	0.000317412	4.84E-05	2.62E-05
2976	256134.5	4085364	0.000311188	4.74E-05	2.57E-05
2977	256124.5	4085342	0.000304964	4.65E-05	2.51E-05
2978	256114.4	4085320	0.000298741	4.55E-05	2.46E-05
2979	256104.4	4085298	0.000292961	4.46E-05	2.41E-05
2980	256094.3	4085277	0.000287627	4.38E-05	2.37E-05
2981	256084.3	4085255	0.00028244	4.30E-05	2.33E-05
2982	256074.2	4085233	0.000278143	4.24E-05	2.29E-05
2983	257629.5	4086654	0.000516128	7.86E-05	4.25E-05
2984	257653.8	4086653	0.000511386	7.79E-05	4.22E-05
2985	257678.1	4086652	0.00050694	7.72E-05	4.18E-05
2986	257702.4	4086651	0.000502495	7.66E-05	4.14E-05
2987	257726.7	4086650	0.000498346	7.59E-05	4.11E-05
2988	257750.9	4086649	0.000494196	7.53E-05	4.07E-05
2989	257775.2	4086648	0.000489899	7.46E-05	4.04E-05
2990	257799.5	4086647	0.000485454	7.40E-05	4.00E-05
2991	257823.8	4086646	0.000480712	7.32E-05	3.96E-05
2992	257848.1	4086644	0.000475525	7.24E-05	3.92E-05
2993	257872.4	4086643	0.000469894	7.16E-05	3.87E-05
2994	257896.6	4086642	0.00046367	7.06E-05	3.82E-05
2995	257920.9	4086641	0.000457002	6.96E-05	3.77E-05
2996	257945.2	4086640	0.000449741	6.85E-05	3.71E-05
2997	257969.5	4086639	0.000442035	6.73E-05	3.64E-05
2998	257993.8	4086638	0.000433885	6.61E-05	3.58E-05
2999	258018	4086637	0.00042529	6.48E-05	3.51E-05
3000	258042.3	4086636	0.000416548	6.35E-05	3.43E-05

3001	258066.6	4086635	0.000407805	6.21E-05	3.36E-05
3002	258090.9	4086634	0.00039921	6.08E-05	3.29E-05
3003	258115.2	4086633	0.000390763	5.95E-05	3.22E-05
3004	258139.5	4086632	0.000382761	5.83E-05	3.16E-05
3005	258163.7	4086630	0.000375352	5.72E-05	3.09E-05
3006	258188	4086629	0.000368536	5.61E-05	3.04E-05
3007	258212.3	4086628	0.000362164	5.52E-05	2.99E-05
3008	258236.6	4086627	0.000356236	5.43E-05	2.94E-05
3009	258260.9	4086626	0.000350605	5.34E-05	2.89E-05
3010	258285.1	4086625	0.000345271	5.26E-05	2.85E-05
3011	258309.4	4086624	0.000340084	5.18E-05	2.80E-05
3012	258333.7	4086623	0.000334898	5.10E-05	2.76E-05
3013	258358	4086622	0.000329859	5.03E-05	2.72E-05
3014	258382.3	4086621	0.000324969	4.95E-05	2.68E-05
3015	258406.6	4086620	0.000319931	4.87E-05	2.64E-05
3016	258430.8	4086619	0.000314893	4.80E-05	2.60E-05

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BIOLOGICAL RESOURCES EVALUATION

PEACH AND BEHYMER RESIDENTIAL PROJECT

CLOVIS, CALIFORNIA

LSA

June 2024

DRAFT

BIOLOGICAL RESOURCES EVALUATION

PEACH AND BEHYMER RESIDENTIAL PROJECT

CLOVIS, CALIFORNIA

Submitted to:

Juli Kutka
De Young Properties
677 W. Palmdon Drive, #208
Clovis, California 93612

Prepared by:

LSA
2565 Alluvial Avenue, Suite 112
Clovis, California 93611
(559) 490-1210

Project No. 20241700

LSA

June 2024

EXECUTIVE SUMMARY

LSA has prepared this Biological Resources Evaluation to examine the potential for special-status biological resources to be impacted by the proposed development of the Peach and Behymer Residential Project (Project) in Clovis, Fresno County, California.

The proposed 37-acre Project would be fully developed with 266 single-family residences.

The results of a database and literature review and reconnaissance site visit determined that the following special-status species could have potential to be impacted by the proposed Project:

- Swainson's hawk (*Buteo swainsoni*): State Threatened
- Nesting birds

Suitable nest trees are not present on the Project site but are present within the region. Ruderal habitat on the Project site may provide limited foraging opportunities. Impacts to Swainson's hawk would be limited to possible abandonment of nests if established near the Project site and loss of suitable foraging habitat.

All habitats on and adjacent to the Project site have potential to support nesting bird species protected under the Migratory Bird Treaty Act and the California Fish and Game Code.

The Project is not anticipated to impact special-status plant species. No sensitive natural communities, jurisdictional aquatic resources, wildlife movement corridors, or nursery sites occur on the Project site. The Project site does not intersect any mapped U.S. Fish and Wildlife Service (USFWS) designated critical habitat or habitat conservation plans and does not conflict with local policies or ordinances.

Avoidance and minimization measures, including nest surveys and monitoring, are prescribed which, when implemented, would reduce Project impacts to biological resources to a less than significant level.

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LIST OF ABBREVIATIONS AND ACRONYMS

°F	degrees Fahrenheit
APN	Assessor Parcel Number
BGEPA	Bald and Golden Eagle Protection Act of 1940
BIOS	Biogeographic Information and Observation System
BRE	Biological Resources Evaluation
BSA	Biological Study Area
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CFR	Code of Federal Regulations
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CRPR	California Rare Plant Rank
CWA	Clean Water Act
CWHR	California Wildlife Habitat Relationships
FESA	Federal Endangered Species Act
HCP	Habitat Conservation Plan
IPaC	Information for Planning and Consultation
MBTA	Migratory Bird Treaty Act
MLRA	Major Land Resource Area
MM	Mitigation Measure

NCCP	Natural Community Conservation Plan
NEPA	National Environmental Policy Act
NETR	National Environmental Title Research LLC
NHD	National Hydrography Dataset
NMFS	National Marine Fisheries Service
NPPA	Native Plant Protection Act
NRCS	Natural Resources Conservation Service
NWI	National Wetlands Inventory
Project	Peach and Behymer Residential Project
SWRCB	State Water Resources Control Board
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
WRCC	Western Regional Climate Center

1.0 INTRODUCTION

1.1 PROJECT LOCATION

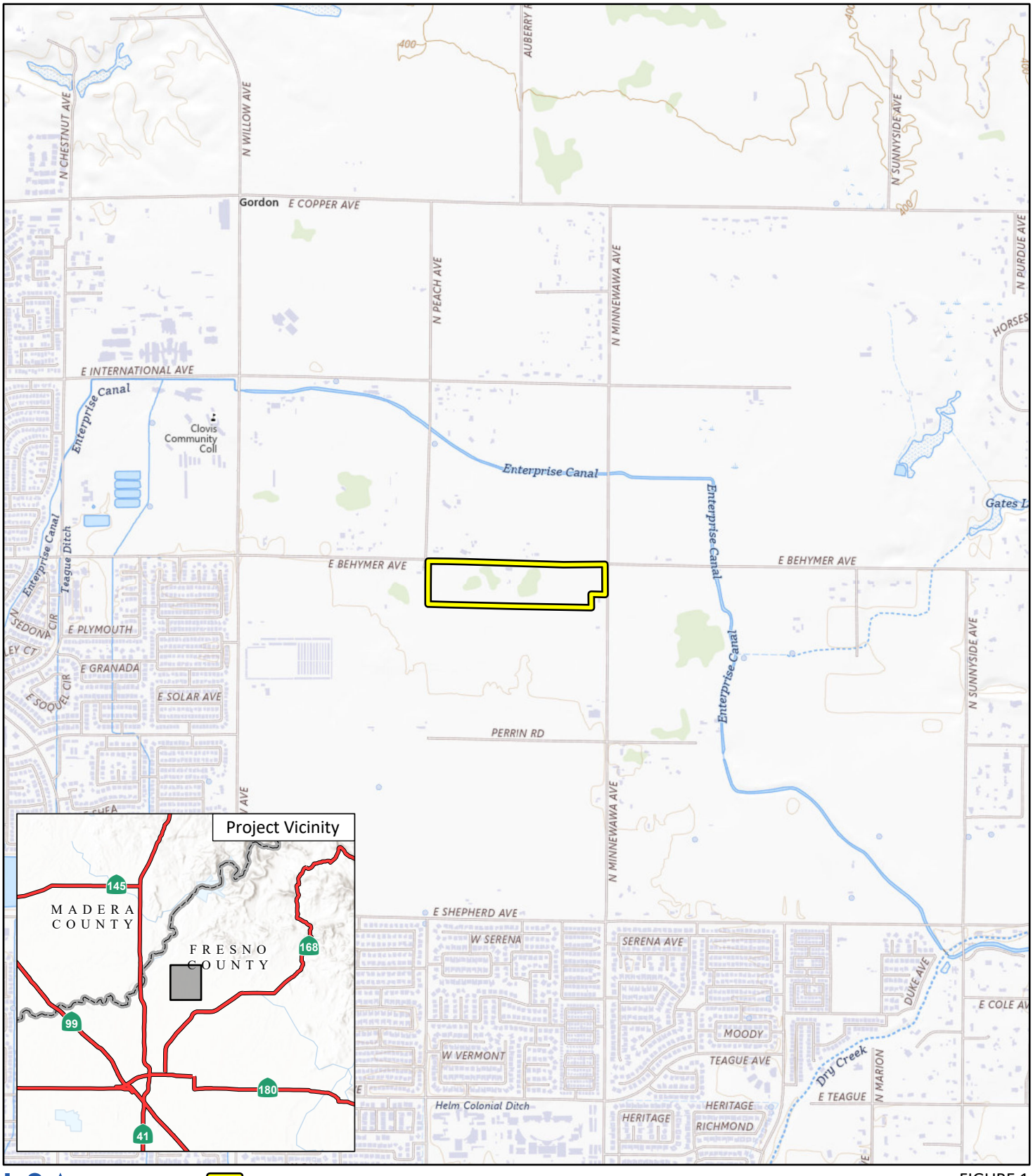
The proposed Peach and Behymer Residential Project (Project) site on Assessor's Parcel Numbers (APNs) 556-010-28 and 556-01-029 southeast of the intersection of East Behymer Avenue and North Minnewawa Avenue, in the City of Clovis. The 37-acre Project area is depicted on the United States Geological Survey (USGS) *Friant, California* 7.5-minute topographic quadrangle in (Figure 1).

1.2 PROJECT DESCRIPTION

The proposed Project would develop 266 single-family residences.

1.3 PURPOSE, GOALS, AND OBJECTIVES

The purpose of this Biological Resources Evaluation (BRE) is to identify where potential special-status biological resources may occur within the Project site, determine how those resources may be impacted by the proposed Project, and recommend avoidance, minimization, and mitigation measures to reduce the potential for impact to a less than significant level. This BRE has been prepared to support an analysis of biological conditions as required by the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA), and to support regulatory permit applications, if needed.



LSA

FIGURE 1

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Peach and Behymer Residential Project

Regional Location

SOURCE: USGS The National Map (2018)

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2.0 METHODS

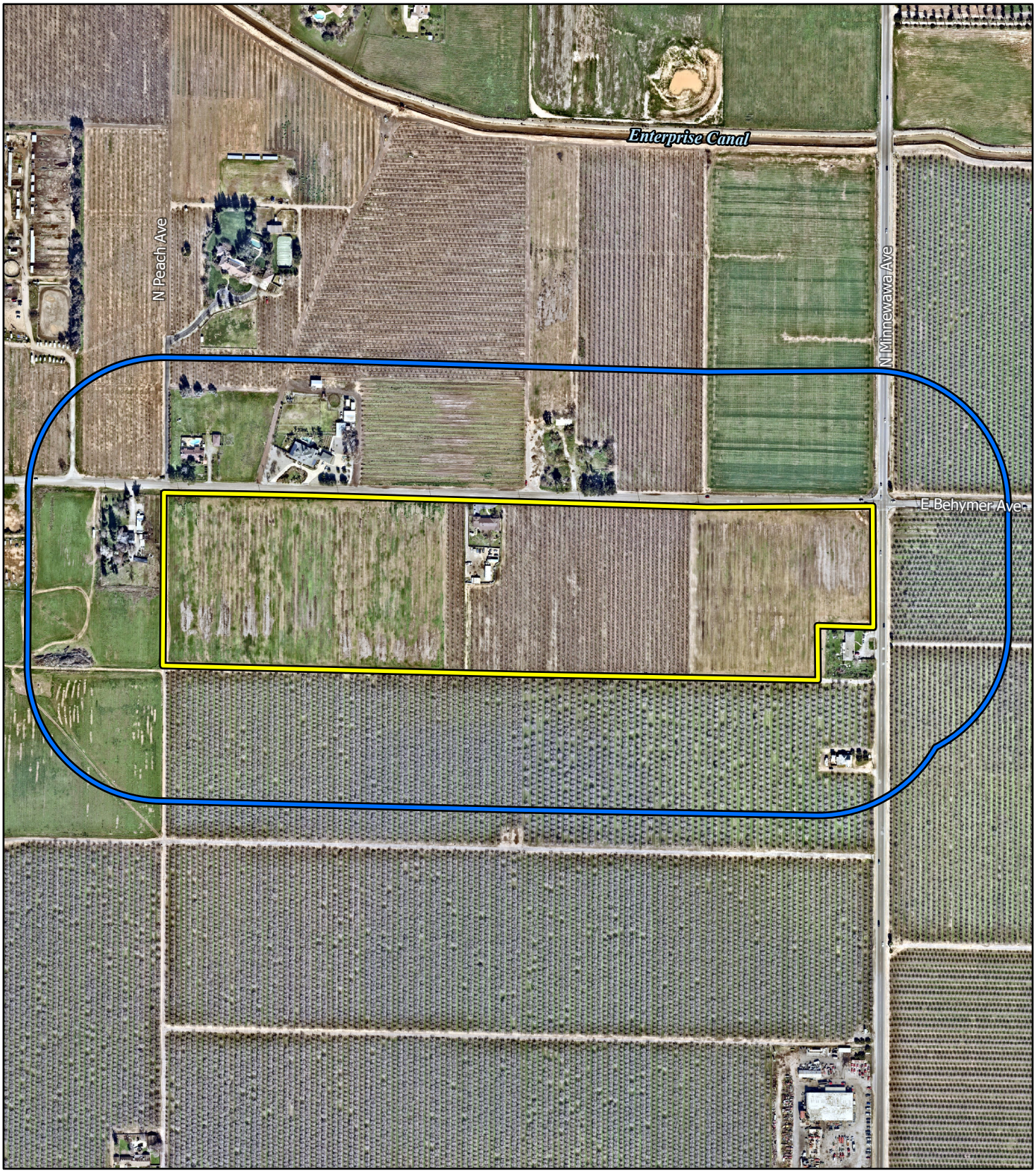
2.1 DEFINITION OF BIOLOGICAL STUDY AREA

For the purposes of this report, the Biological Study Area (BSA) is the Project site plus a 500-foot buffer (Figure 2).

2.2 DEFINITION OF SPECIAL-STATUS RESOURCES

For the purposes of this report, special-status resources include:

- Species listed as threatened or endangered under the Federal Endangered Species Act (FESA); species that are under review may be included if there is a reasonable expectation of listing within the life of the Project;
- Species listed as candidate, threatened, or endangered under the California Endangered Species Act (CESA);
- Species designated as Fully Protected or Species of Special Concern by the California Department of Fish and Wildlife (CDFW);
- Plant species with a California Rare Plant Rank (CRPR) in Categories 1 or 2;
- Species designated as locally important by the Local Agency and/or otherwise protected through ordinance or local policy;
- Sensitive natural communities as defined by the CDFW or by Local agencies; and
- Aquatic features.



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Project Location

Biological Study Area

FIGURE 2

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SOURCE: Nearmap (02/2024)

Peach and Behymer Residential Project

Biological Study Area

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2.3 DATABASE SEARCH AND BACKGROUND REVIEW

The following sources were reviewed for information on special-status biological resources in the Project vicinity:

- CDFW's California Natural Diversity Database (CNDDB; CDFW 2024a)
- CDFW's Biogeographic Information and Observation System (BIOS; CDFW 2024b)
- CDFW's California Wildlife Habitat Relationships (CWHR) System (Mayer and Laudenslayer 1988)
- California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants of California (CNPS 2024)
- United States Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) system (USFWS 2024b)
- USFWS Critical Habitat Mapper (USFWS 2024a)
- USFWS National Wetlands Inventory (NWI; USFWS 2024c)
- USGS National Hydrography Dataset (NHD; USGS 2024)
- United States Department of Agriculture, Natural Resources Conservation Service (NRCS) Web Soil Survey (NRCS 2024a)
- Current and historical aerial imagery (Google LLC 2024; NETR 2024)

For each of these data sources, the search was focused on the *Friant, California* USGS 7.5-minute quadrangle in which the Project is located, plus the surrounding eight quadrangles. For the CNDDB, a 10-mile search radius was used.

The CNDDB provides element-specific spatial information on individually documented occurrences of special-status species and sensitive natural communities. Some of the information available in the CNDDB is still undergoing review by the CDFW; these records are identified as unprocessed data. The CNPS database provides similar information as the CNDDB, but at a much lower spatial resolution. Much of this information in these databases is obtained opportunistically and is often focused on protected lands or on lands where development has been proposed. Neither database represents a comprehensive survey for special-status resources in the region. As such, the absence of recorded occurrences in these databases at any specific location does not preclude the possibility that a special-status resource could be present. The NWI and Web Soil Survey provide comprehensive data but at a low resolution, requiring confirmation in the field.

The results of the database inquiries were reviewed to develop a list of special-status resources that may be present on and within the vicinity of the Project. This list was then evaluated against the existing conditions observed during the reconnaissance site visit of the BSA to determine which

special-status resources have the potential to occur, and then the potential for impacts to those resources through implementation of the Project.

2.4 RECONNAISSANCE-LEVEL FIELD SURVEYS

The environmental setting of the BSA was documented during a reconnaissance site survey on May 1, 2024 (see Table A).

Table A: Field Surveys Personnel and Timing

Date	Personnel	Timing	Weather Conditions	Survey Type
5/1/2024	Carie Wingert	1030–1156	Sunny and clear, light breeze, 64°F–67°F	Reconnaissance

Source = LSA (May 2024).
°F = degrees Fahrenheit

The reconnaissance-level site survey of the BSA characterized the existing biological conditions of the Project site and the greater BSA. The site survey consisted of a combination of windshield surveys and pedestrian transects. Adjacent parcels were visually scanned from the Project site and public roads for potential special-status resources. The survey effort resulted in 100 percent visual coverage of the BSA.

All plant and animal species detected were recorded and identified to the lowest taxonomic level necessary to determine rarity. The locations of any special-status species detected were documented using GPS. All other potential sensitive biological resources, such as aquatic habitats, were also recorded.

2.5 POTENTIAL FOR OCCURRENCE ASSESSMENT

Assessments for the potential occurrence of special-status species are based on known ranges, habitat preferences for the species, species occurrence records from the CNDDB and CNPS, species occurrence records from other sites in the vicinity of the survey area, previous reports for the Project site, and the results of surveys of the Project site. The potential for each special-status species to occur in the BSA was evaluated according to the following criteria:

- **No:** Habitat on and adjacent to the site is clearly unsuitable to meet the needs of the species (i.e., foraging, breeding, cover, substrate, elevation, hydrology, plant community, site history, disturbance regime), and species would have been identifiable on site if present (e.g., oak trees). Protocol surveys (if conducted) did not detect species.

- **Yes:** Conditions within the BSA may, in some way, support a portion of the species' ecology (e.g., foraging, reproduction, movement/migration). Protocol surveys (if conducted) were conducted, but negative results do not exclude the potential for a species to occur.

- **Present:** The species was observed within the BSA or has been recorded (e.g., CNDDB, other reports) in the BSA recently (within the last 5 years).

3.0 REGULATORY SETTING

Regulated or sensitive resources that were studied and analyzed include special-status plant and animal species, nesting birds and raptors, sensitive plant communities, jurisdictional waters and wetlands, wildlife movement areas, and locally protected resources, such as protected trees. Regulatory authority over biological resources is shared by federal, State, and local authorities. Primary authority for regulation of general biological resources lies within the land use control and planning authority of local jurisdictions (in this instance, the City of Clovis).

Potential impacts to biological resources were analyzed based on the following list of statutes. Summaries of these statues are provided in Appendix A.

- CEQA
- FESA
- CESA
- Federal Clean Water Act
- California Fish and Game Code
- Migratory Bird Treaty Act (MBTA)
- The Bald and Golden Eagle Protection Act
- Porter-Cologne Water Quality Control Act
- City of Clovis General Plan

4.0 ENVIRONMENTAL SETTING

4.1 PHYSICAL CHARACTERISTICS

4.1.1 Climate

The Project is in an area with a Mediterranean climate of hot summers and mild, wet winters. Average high temperatures range from 55 degrees Fahrenheit (°F) in January to 98°F in July, with daily temperatures exceeding 100°F several days in the summer (WRCC 2024). Average low temperatures range from 37°F in December to 66°F in July. Precipitation occurs primarily as rain, most of which falls from November to April, with an average of 11 inches of rainfall per year. Precipitation may also occur as a dense fog during the winter known as tule fog. Rain rarely falls during the summer months.

4.1.2 Topography and Land Use

The Project site is flat with portions in agricultural use as orchards. Elevation on the Project site is approximately 383 feet above mean sea level. Two rural residences are located on the property. Review of historic aerial imagery indicates the site has been used for orchards for decades (Google LLC 2024).

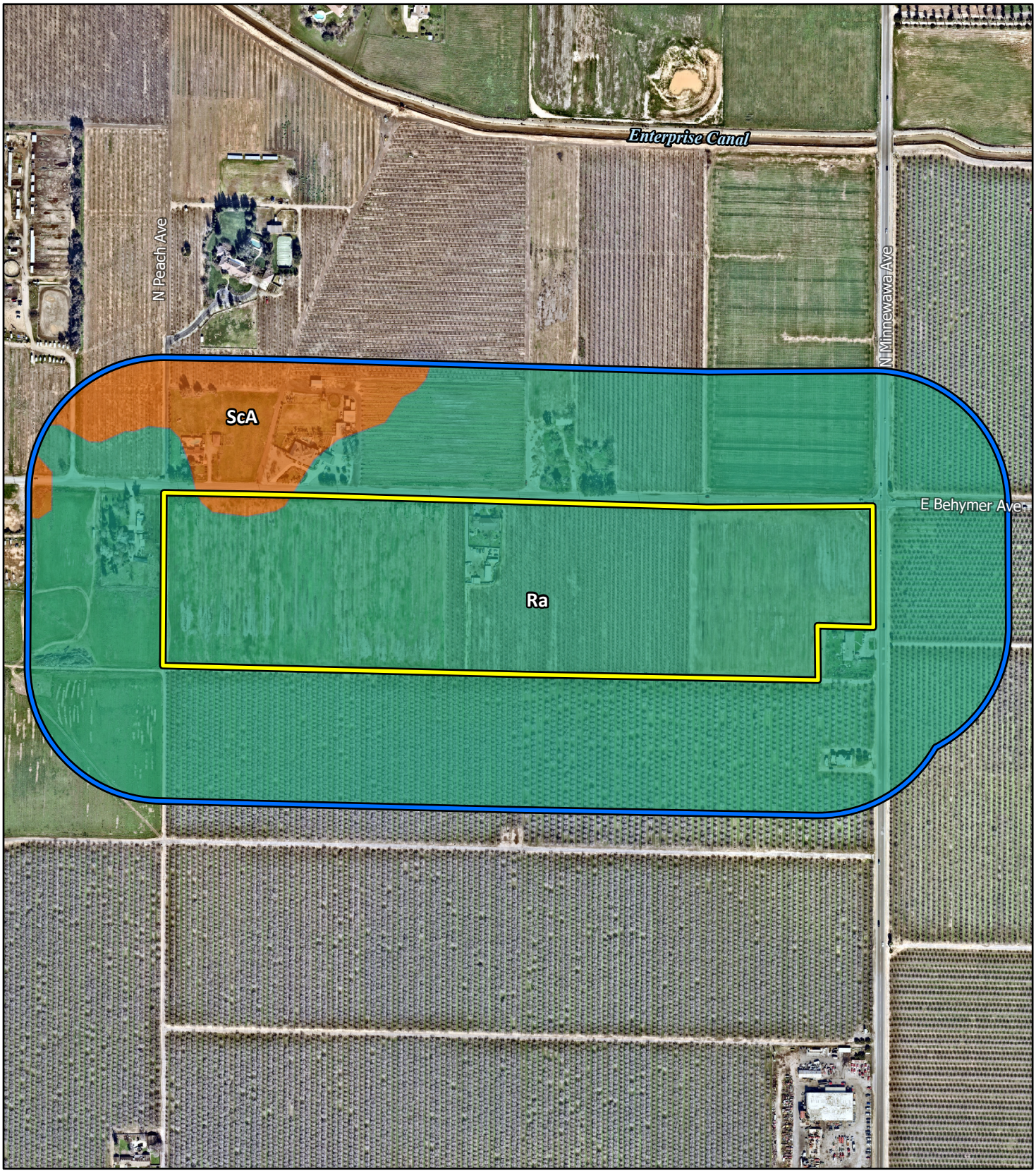
The Project vicinity is dominated by agricultural uses and rural residences. Adjacent land uses include East Behymer Avenue, orchards, and rural residences to the north; North Minnewawa Avenue and orchards to the east; orchards to the south; and North Peach Avenue, agriculture and rural residentials to the west. Urban residential and commercial development is approximately 0.5 mile further to the west.

4.1.3 Soils

The BSA is underlain by two soil types (Figure 3; NRCS 2024a).

Ramona sandy loam: This soil type underlies most of the Project site and consists of fine-loamy, mixed, and thermic soils found on nearly level to moderately steep terraces and fans. It is formed in alluvium derived primarily from granitic and similar rock sources. It is well-drained with moderately slow permeability and is commonly used for both irrigated and non-irrigated cultivation. This is not a hydric soil (NRCS 2024b).

San Joaquin sandy loam, 0 to 3 percent slopes, Major Land Resource Area (MLRA) 17: This soil type consists of moderately deep to hard pan, well and moderately well-drained soils formed in alluvium from mostly granitic sources. It is typically found on shallow slopes from near level to undulating terraces up to about 500 feet above sea level. It is typically used for cultivation and livestock grazing. This soil may be hydric in fan remnants and open depressions (NRCS 2024b).



LSA

FIGURE 3

Project Location

Biological Study Area

Soils

Ra - Ramona sandy loam

ScA - San Joaquin sandy loam, 0 to 3 percent slopes, MLRA 17

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Peach and Behymer Residential Project

Soils Mapped within the BSA

SOURCE: Nearmap (02/2024); USDA SSURGO (2024)

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4.1.4 Hydrology

No aquatic features were observed on site. The NWI and National Hydrography Dataset depict a riverine feature on the northwest boundary of the site that no longer exists (Figure 4; USGS 2024, USFWS 2024c). Review of historic aerial and topo maps suggest an irrigation ditch was present until sometime before 1972 when the ditch may have been replaced with underground piping (NETR 2024).

4.2 VEGETATION AND OTHER LAND COVER

Five habitat types were observed within the BSA: Ruderal, Orchard, Row Crop, Annual Grassland, and Developed (Figure 5). The acreages of each habitat within the BSA and Project site are provided in Table B. The habitats observed on site have been described in the context of the CWHR (Mayer and Laudenslayer 1988).

Table B: Habitat Acreages Within the BSA and Project Site

Habitat Type	Acreages	
	BSA	Project Site
Ruderal	24.86	24.13
Orchard	64.60	12.24
Row Crop	13.60	0.00
Annual Grassland	12.23	0.03
Developed	14.15	1.02

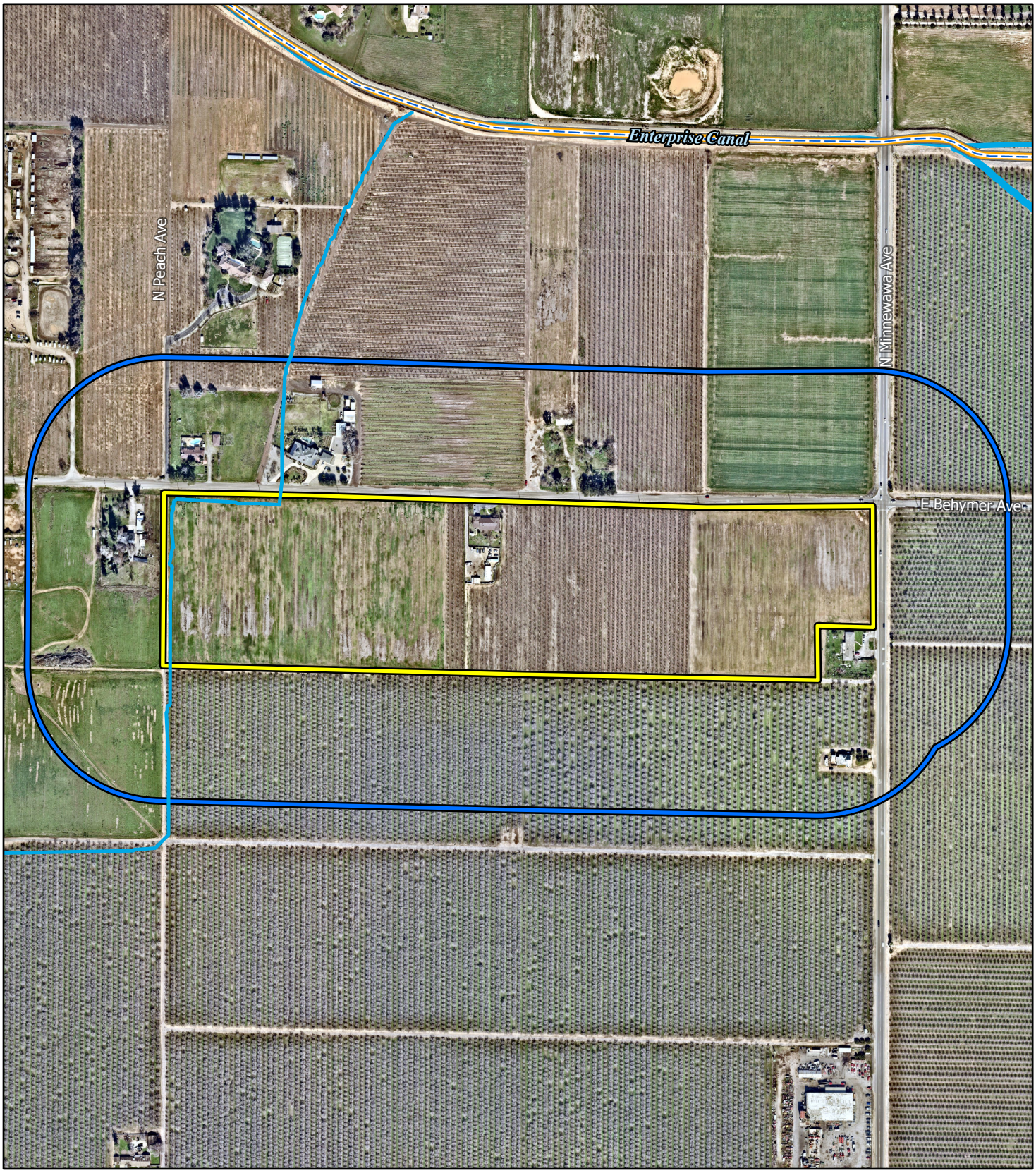
Source: LSA Site Visit, May 1, 2024.
BSA = Biological Study Area

4.2.1 Ruderal

The CWHR describes a habitat as barren if less than 2 percent is covered with vegetation (Mayer and Laudenslayer 1988). This includes habitats in which there are large stretches of bare ground between plant specimens, typically ruderal species, as well as graded and paved areas. Ruderal areas are present on the western and eastern portions of the Project site (Figure 5).

4.2.2 Orchard

Orchard is classified by the CWHR as an open, single species tree-dominated habitat. Typically, the tree species are low, bushy trees with an open understory. Orchards can include almonds, apples, apricots, cherries, figs, nectarines, peaches, pears, pecan, pistachios, plums, pomegranates, prunes, or walnuts. The understory may consist of low-growing grasses, legumes, and other herbaceous plant species or may be barren. Typically, this habitat is intensively maintained and has a constant available water source for irrigation. Orchards are present in the central portion of the Project site and throughout the BSA (Figure 5).



LSA

Project Location
Biological Study Area
Waterbody Connector
Canal

National Wetland Inventory
Marine
Estuarine
Palustrine
Riverine
Lacustrine

N

0 250 500
FEET

FIGURE 4

Peach and Behymer Residential Project

NWI and NHD Map

SOURCE: Nearmap (02/2024); USFWS (2024)

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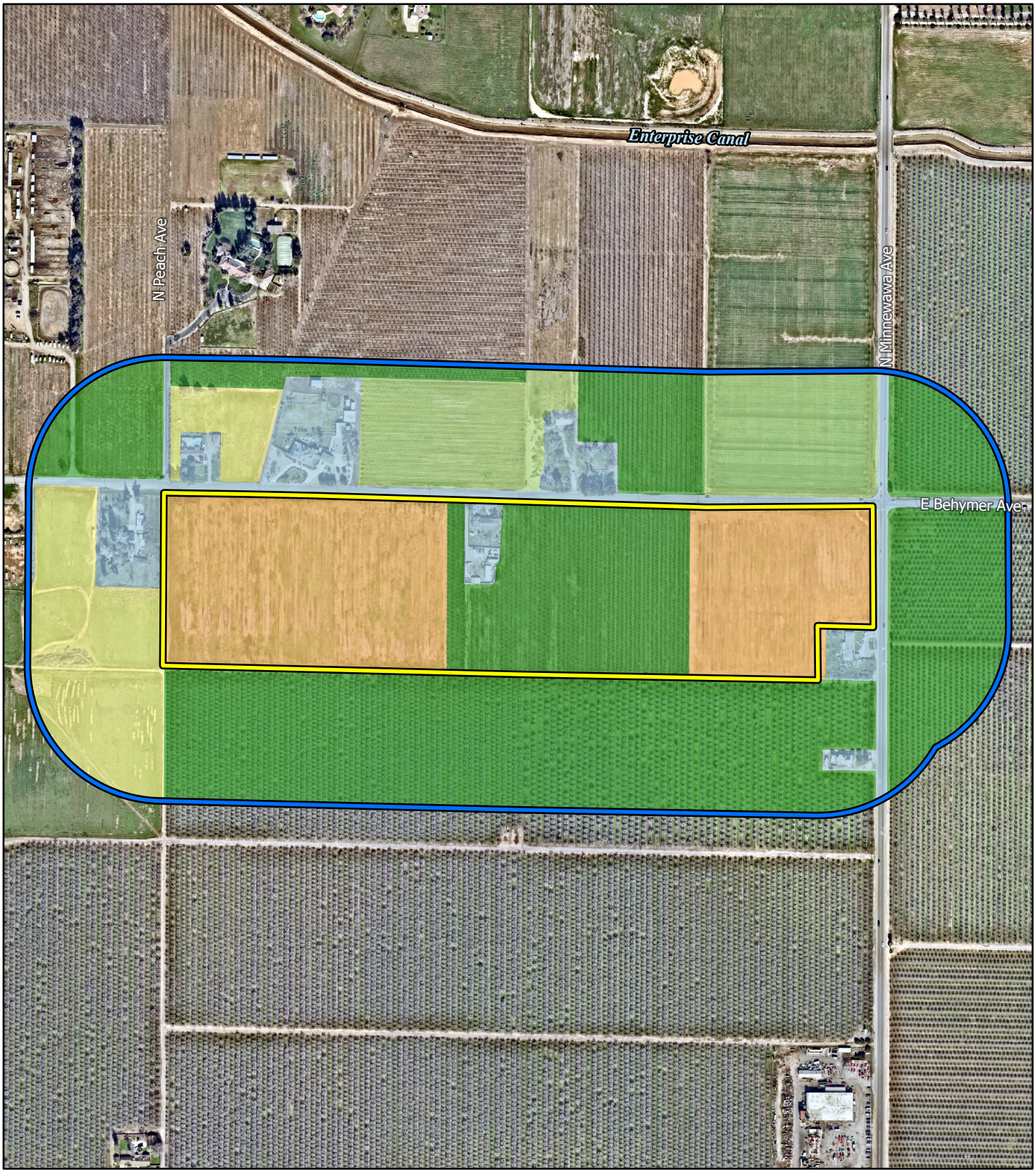

LSA

Project Location
Biological Study Area

Vegetation
Annual Grassland - 12.23 acres
Row Crop - 13.58 acres
Orchard - 64.60 acres
Ruderal - 24.86 acres
Developed - 14.15 acres

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SOURCE: Nearmap (02/2024)

FIGURE 5

Peach and Behymer Residential Project
Vegetation Communities Map

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4.2.3 Row Crop

The CWHR identifies several types of row crop including Irrigated Row and Field Crops, Irrigated Grain Crops, and Irrigated Hayfield. Row crop habitats are monotypic habitats consisting of a single agricultural crop species grown over several acres and are usually irrigated. Row crop habitats are typically intensively maintained and are often subject to turnover multiple times per year. Row crop was observed within the BSA immediately north of the Project site (Figure 5).

4.2.4 Annual Grassland

The CWHR defines annual grassland as open grasslands dominated by annual grasses and forbs and with few or no trees (Mayer and Laudenslayer 1988). It is mostly commonly found on flat plains to gentle rolling foothills and often underlain by drier soils.

Annual grassland is not present on the Project site but is present on a private parcel adjacent to the southwest corner of the Project site. This habitat was not closely examined due to lack of access. Ripgut (*Bromus diandrus*) was observed from the perimeter as a dominant on this parcel (Figure 5).

4.2.5 Developed

Developed areas within the BSA correspond with the CWHR description for Urban, which is divided into five different categories: tree grove, street strip, shade tree/lawn, lawn, and shrub cover, each usually dominated by nonnative ornamental species. Developed habitat is present on the Project site at one rural residential location and includes rural residences elsewhere within the BSA (Figure 5).

4.3 GENERAL WILDLIFE OBSERVATIONS

Wildlife species detected included common raven (*Corvus corax*), northern mockingbird (*Mimus polyglottos*), red-tailed hawk (*Buteo jamaicensis*), California ground squirrel (*Otospermophilus beecheyi*), pocket gopher (*Thomomys bottae*) throws, and large domestic dog (*Canis familiaris*) tracks.

5.0 SPECIAL-STATUS RESOURCES

Local, State, and federal agencies regulate special-status species and other sensitive biological resources and require an assessment of their presence or potential for presence to be on site prior to the approval of proposed development on a property.

5.1 SPECIAL-STATUS SPECIES

Table C presents the list of special-status plant and animal species determined to have potential to occur on site and identifies whether the Project may affect the species and threaten the viability of the species population. The complete list of species evaluated for this Project is included in Appendix D. Each species is further discussed in the subsections below.

Table C: Special-Status Species with Potential to Occur on Site

Scientific Name Common Name	Status FESA/CESA	Potentially Affected by Project? Yes/No	Viability Threat? Yes/No
Birds			
Buteo swainsoni Swainson's hawk	--/ST	Yes	No

Source: Compiled by LSA (2024)
CESA = California Endangered Species Act
FESA = Federal Endangered Species Act
ST = State Threatened

5.1.1 Special-Status Plant Species

The literature review identified 20 special-status plant species known or with potential to occur in the vicinity of the Project (see evaluation table in Appendix D). None were found to have a potential to occur on site due to the lack of suitable habitat conditions.

5.1.2 Special-Status Animal Species

The literature review identified 31 special-status animal species known or with potential to occur in the vicinity of the Project (see evaluation table in Appendix A). Of those, one (1) was determined to have the potential to occur and be impacted by the Project:

- Swainson's hawk (*Buteo swainsoni*) – State Threatened

5.1.2.1 Swainson's Hawk

***Buteo swainsoni* (Status: State Threatened).** Swainson's hawks occur in grassland, desert, and agricultural landscapes throughout the Central Valley and Antelope Valley (Bechard et al. 2020, Zeiner et al. 1990). Some hawks may be resident, especially in the southern portion of their range, while others may migrate between winter and breeding habitats. They prefer larger isolated trees or small woodlots for nesting, usually with grassland or dry-land grain fields nearby for foraging and have been known to nest in large eucalyptus trees along heavily traveled freeway corridors.

Swainson's hawks forage in grassland, open scrub, pasture, and dryland grain agricultural habitats, primarily for rodents. Swainson's hawks exhibit a moderate to high nest site fidelity for successful nest sites.

The nearest occurrence was recorded 2018 as a possible nest site located approximately 4 miles to the west (CDFW 2024a). A second occurrence recorded in nearly the same location in 2017 was of a pair of Swainson's hawks exhibiting courting behaviors.

There are not suitable nest trees on the Project site; however, there are several large trees within 0.5 mile of the Project site that could support nesting Swainson's hawks. There is evidence of a prey base on the Project site (pocket gophers) though the ruderal areas on site likely provide limited foraging opportunities.

5.1.3 Other Protected Species

The Project site has the potential to support nesting birds.

5.2 SENSITIVE NATURAL COMMUNITIES

5.2.1 Sensitive Plant Communities

The database search identified five sensitive plant communities within the search radius: Great Valley Mixed Riparian Forest, Northern Basalt Flow Vernal Pool, Northern Claypan Vernal Pool, Northern Hardpan Vernal Pool, and Sycamore Alluvial Woodland. No sensitive plant communities are present on site.

5.2.2 Critical Habitats

There are no federally designated critical habitats mapped over the BSA (Figure 6; USFWS 2024a).

5.3 JURISDICTIONAL AQUATIC RESOURCES

No potentially jurisdictional features are present on site.

5.4 WILDLIFE MOVEMENT

Wildlife movement corridors, also referred to as dispersal corridors or landscape linkages, are generally defined as linear features along which animals can travel from one habitat or resource area to another. Wildlife movement corridors can be large tracts of land that connect regionally important habitats that support wildlife in general, such as stop-over habitat that supports migrating birds or large, contiguous natural habitats that support animals with very large home ranges (e.g., coyotes [*Canis latrans*], mule deer [*Odocoileus hemionus californicus*]). They can also be small-scale movement corridors, such as riparian zones, that provide connectivity and cover to support movement at a local scale.

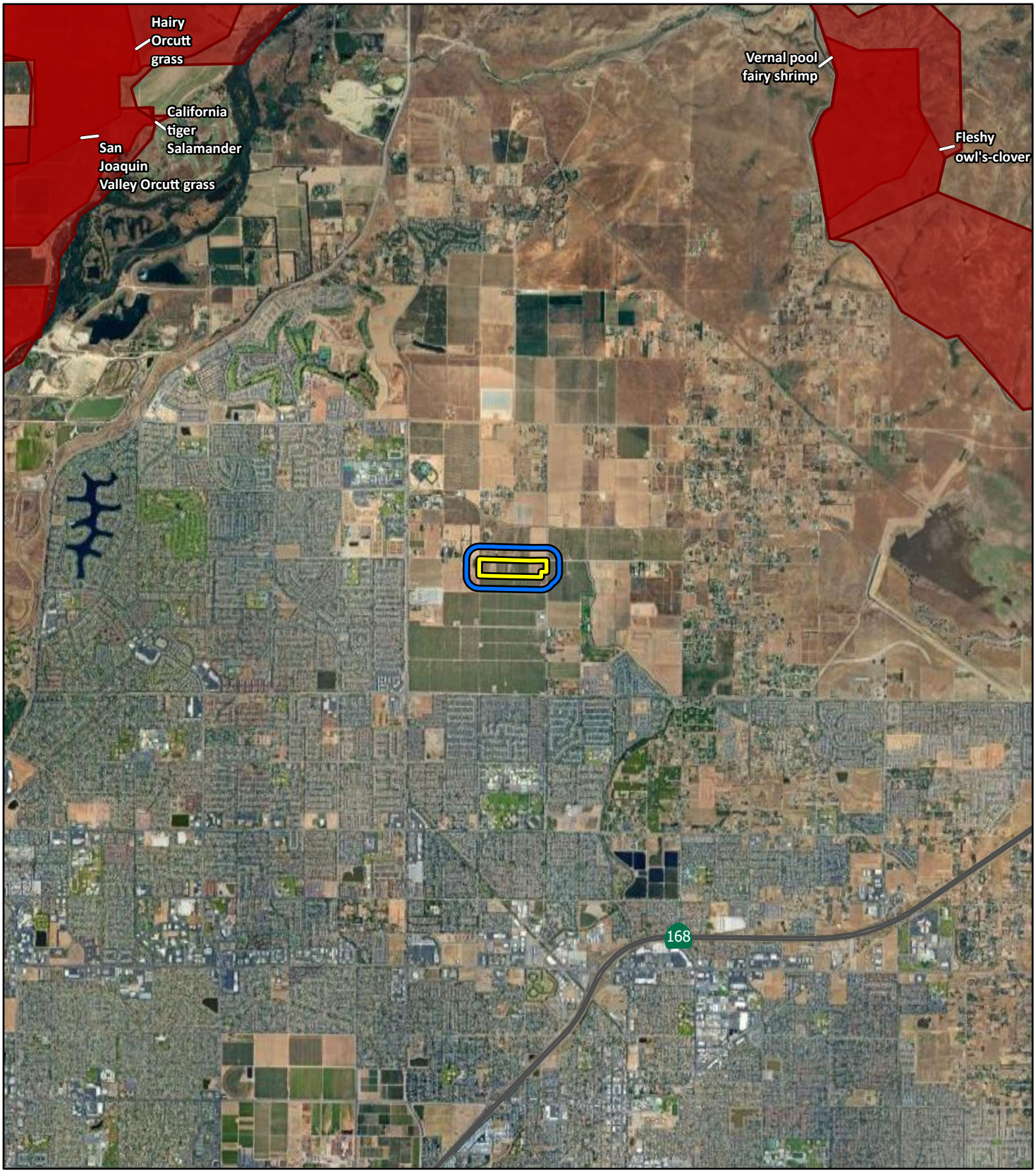

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FIGURE 6

Peach and Behymer Residential Project

Critical Habitat

SOURCE: Google Imagery (2024); USFWS (2024)

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The BSA is not located within an identified wildlife movement corridor (CDFW 2024b). There are no features on site that would lend themselves specifically to wildlife movement (e.g., riparian corridors). The site is surrounded by a mix of rural residential and agricultural uses.

5.5 RESOURCES PROTECTED BY LOCAL POLICIES AND ORDINANCES

The City's General Plan includes policies for the protection of biological resources including:

- **Policy 2.6: Biological resources**. Support the protection of biological resources through the conservation of high quality habitat area.
- **Policy 2.7: Native plants**. Encourage the use of native and climate-appropriate plant species and prohibit the use of plant species known to be invasive.
- **Policy 2.8: Urban forest.** Maintain and enhance a diverse and healthy urban forest on public and private lands.

The City's Municipal Code includes specific provisions for the protection of trees, including those on private property (Chapter 9.30).

The Project site does not contain high quality habitat, and no sensitive plant species were detected during the site visit.

The ornamental trees located at the two residences on the Project site may be subject to the City's tree protection ordinance. The almond orchard trees on site are exempt from this ordinance (9.30.050 Exemptions).

5.6 HABITAT CONSERVATION PLANS

The BSA does not fall within the boundaries of a Habitat Conservation Plan (HCP), Natural Community Conservation Plan (NCCP), or other locally adopted habitat conservation plan (CDFW 2024b).

6.0 IMPACT EVALUATION AND RECOMMENDED AVOIDANCE, MINIMIZATION AND MITIGATION MEASURES

This section describes the potential biological resources impacts associated with development of the project based on the thresholds of significance listed in the *State CEQA Guidelines* Appendix G, Environmental Checklist, which are listed throughout, along with consideration for other federal and State laws.

6.1 SPECIAL-STATUS SPECIES

The proposed Project would have a significant effect on biological resources if it would:

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service.

6.1.1 Project Impacts to Special-Status Plant Species

No special-status plant species have the potential to occur on site due to the highly disturbed nature of the Project site and the lack of suitable habitat conditions. The Project would have no impact on special-status plant species.

6.1.2 Project Impacts to Special-Status Animal Species

One special-status species was determined to have a potential to occur on site: Swainson's hawk.

6.1.2.1 Swainson's Hawk

Several trees in the BSA and greater Project vicinity are suitable for nesting. The Project site provides limited foraging habitat. Swainson's hawks have been observed within 5 miles of the Project site as recently as 2018 (CDFW 2024a, 2024b).

Impacts to Swainson's hawk could occur if construction of the Project occurs during the nesting season and an active Swainson's hawk nest is disturbed by noise, vibration, or the presence of construction activity. The Project could also impact Swainson's hawk through the loss of suitable foraging habitat. Foraging habitat in the Project vicinity is limited, with more suitable grassland and grain field habitat to the north and west of the Project site. Development of the Project could contribute to the cumulative loss of foraging habitat as development continues in the region. Despite the potential for Swainson's hawk to occur on or near the Project site, these impacts would not jeopardize the continued existence of the species as they exhibit a moderate to high tolerance for disturbance around nests, and other areas of foraging habitat remain in the greater region.

6.1.2.2 Nesting Birds

The BSA contains suitable habitat that could support a variety of ground and tree nesting bird species protected under the MBTA and the California Fish and Game Code. Impacts to active nests

could occur from direct disturbance of active nests during construction of the Project and from noise and vibration caused by construction activities. Based on the disturbed nature of the site and surrounding lands, construction of the Project is not expected to cause a significant reduction in nesting habitat in the region.

6.1.2.3 Avoidance, Minimization, and Mitigation Measures

The following mitigation measures (MMs) are recommended to avoid, minimize, and/or mitigate impacts to special-status animal species.

BIO-MM-1 **Pre-Activity Surveys for Swainson's Hawk Nests.** If Project activities must occur during the nesting season (February 15 to August 31), pre-activity surveys shall be conducted for Swainson's hawk nests within 14 days prior to the start of construction. The surveys would be conducted within the Project site plus a 0.5-mile buffer. The survey shall be conducted in accordance with the methodology outlined in existing protocols. Note that Swainson's hawks may establish a nest at any time from February through June; multiple Swainson's hawks nest surveys may be necessary in one season at the direction of a qualified biologist, depending on the timing of Project construction.

If no Swainson's hawk nests are found, no further action is required.

BIO-MM-2 **Swainson's Hawk Nest Avoidance.** If an active Swainson's hawk nest is discovered at any time within 0.5 mile of active construction, a qualified biologist shall complete an assessment of the potential for current construction activities to impact the nest. The assessment shall consider the type of construction activities, the location of construction relative to the nest, the visibility of construction activities from the nest location, and other existing disturbances in the area that are not related to construction activities of this Project. Based on this assessment, the biologist shall determine if construction activities can proceed and if nest monitoring will be required. At a minimum, construction activities shall not occur within 100 feet of an active nest and shall require monitoring if within 500 feet of an active nest. These buffers may need to increase depending on the sensitivity of the nest location.

BIO-MM-3 **Pre-Activity Nesting Bird Surveys**. If Project activities must occur during the nesting season (February 15 to August 31), pre-activity nesting bird surveys shall be conducted no more than 7 days prior to the start of construction at the construction site plus a 250-foot buffer for songbirds and a 500-foot buffer for raptors (other than Swainson's hawk). If no active nests are found, no further action is required; however, note that nests may become active at any time throughout the summer, including when construction activities are occurring. If active nests are found during the survey or at any time during Project construction, an avoidance buffer ranging from 50 feet to 350 feet shall be required, as determined by a qualified biologist. The avoidance buffer shall remain in place until the biologist has determined that the young are no longer reliant on the nest. Work may occur within the avoidance

buffer under the approval and guidance of the biologist. The biologist shall have the ability to stop construction if nesting adults show sign of distress.

Significance After Mitigation. Implementation of the mitigation measures above will reduce Project impacts to special-status species to a less than significant level.

6.2 SENSITIVE NATURAL COMMUNITIES AND CRITICAL HABITAT

The proposed Project would have a significant effect on biological resources if it would:

b) Have a substantial adverse impact on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or US Fish and Wildlife Service.

The BSA does not overlap critical habitat, and there are no sensitive natural communities present. Therefore, the Project would have no impacts to sensitive natural communities and no measures are required.

6.3 JURISDICTIONAL AQUATIC RESOURCES

The proposed Project would have a significant effect on biological resources if it would:

c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.

No jurisdictional aquatic resources are present on the Project site. No impacts to jurisdictional aquatic resources would occur with construction of the Project and no measures are required.

6.4 WILDLIFE MOVEMENT

The proposed Project would have a significant effect on biological resources if it would:

d) Interfere substantially with the movement of any resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors, or impede the use of wildlife nursery sites.

The Project site does not intersect any regional or local wildlife movement corridors, nor does it support an important wildlife nursery site. No impacts to wildlife movement or nursery sites would occur and no measures are required.

6.5 LOCAL POLICIES AND ORDINANCES

The proposed Project would have a significant effect on biological resources if it would:

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.

The Project will not conflict with general plan policies designed to protect biological resources as the Project site does not contain high quality habitat. Ornamental trees located at the residences may be subject to the City's tree protection ordinance. Complying with the City's tree removal requirements will satisfy this ordinance and no conflict would occur. Orchard trees are not subject to this ordinance and may be removed without a permit.

6.6 ADOPTED OR APPROVED PLANS

The proposed Project would have a significant effect on biological resources if it would:

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state habitat conservation plan.

The Project is not located within the boundaries of an adopted HCP, NCCP, or other habitat conservation plan. Development of the Project would not conflict with any habitat conservation plan, and no measures are required.

7.0 LIMITATIONS, ASSUMPTIONS, AND USE RELIANCE

This BRE has been performed in accordance with professionally accepted biological investigation practices conducted at this time and in this geographic area. The findings and opinions conveyed in this report are based on findings derived from site reconnaissance, and specified historical and literature sources. The biological investigation is limited by the scope of work performed. Reconnaissance biological surveys for certain taxa may have been conducted as part of this assessment but were not performed during a particular blooming period, nesting period, or particular portion of the season when positive identification would be expected if present and, therefore, cannot be considered definitive. The biological surveys are limited also by the environmental conditions present at the time of the surveys. In addition, general biological (or protocol) surveys do not guarantee that the organisms are not present and would not be discovered in the future within the site. For example, mobile animal species could occupy the site on a transient basis or re-establish populations in the future. No other guarantees or warranties, expressed or implied, are provided.

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9.0 LIST OF PREPARERS

9.1 PRIMARY AUTHOR

- Carie Wingert, Senior Biologist

9.2 TECHNICAL REVIEW

- Blake Selna, Principal

9.3 FIELD RECONNAISSANCE SURVEY

- Carie Wingert, Senior Biologist

APPENDIX A

REGULATORY SETTING

A.1 REGULATORY SETTING

A.1.1 Federal Laws and Regulations

A.1.1.1 Federal Endangered Species Act of 1973 (USC Title 16, Sections 1531–1543)

The federal Endangered Species Act (FESA) and subsequent amendments provide guidance for the conservation of endangered and threatened species and the ecosystems upon which they depend. FESA defines species as threatened or endangered and provides regulatory protection for listed species. FESA provides a program for the conservation and recovery of threatened and endangered species, as well as the protection of designated critical habitat that the United States Fish and Wildlife Service (USFWS) determines is required for the survival and recovery of listed species. The USFWS and National Marine Fisheries Service (NMFS) share responsibilities for administering FESA.

Section 9 of FESA prohibits the "take" of species listed by the USFWS as threatened or endangered. Although take of a listed species is prohibited, it is allowed when it is incidental to an otherwise legal activity. As defined by FESA, taking means "...to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect or attempt to engage in such conduct." The definition of "harm" includes significant habitat modification or degradation that results in death or injury to listed species by significantly impairing behavioral patterns related to breeding, feeding, or shelter. "Harass" is defined as actions that create the likelihood of injury to listed species by disrupting normal behavioral patterns related to breeding, feeding, and shelter significantly.

Section 7 of FESA requires federal agencies, in consultation with and with assistance from the Secretary of the Interior or the Secretary of Commerce, as appropriate, to ensure that actions they authorize, fund, or carry out are not likely to jeopardize the continued existence of threatened or endangered species or result in the destruction of adverse modification of critical habitat for these species. Regulations governing interagency cooperation under Section 7 are found in California Code of Regulations (CCR) Title 50, Part 402. If an activity could result in "take" of a listed species as an incident of an otherwise lawful activity, then a biological opinion can be issued with an incidental take statement that exempts the activity from FESA's take prohibitions.

Section 10 provides a means whereby a nonfederal action with the potential to result in take of a listed species can be allowed under an incidental take permit. Application procedures are found at Code of Federal Regulations (CFR) Title 50, Sections 13 and 17, for species under the jurisdiction of USFWS and CFR, Title 50, Sections 217, 220, and 222, for species under the jurisdiction of NMFS. Section 10 would apply to the Project if take of a species (as defined in Section 9) were determined to occur.

Sections 4(a)(3) and (b)(2) of FESA require the designation of critical habitat to the maximum extent possible and prudent based on the best available scientific data and after considering the economic impacts of any designations. Critical habitat is defined in Section 3(5)(A) of FESA as: (1) areas within the geographic range of a species that are occupied by individuals of that species and contain the primary constituent elements (physical and biological features) essential to the conservation of the species, thus warranting special management consideration or protection; and (2) areas outside of the geographic range of a species at the time of listing but that are considered essential to the conservation of the species.

A.1.1.2 Migratory Bird Treaty Act (USC Title 16, Sections 703–711)

The Migratory Bird Treaty Act (MBTA), first enacted in 1918, is the result of a series of treaties that the United States has with Great Britain (on behalf of Canada), Mexico, Japan, and the former Soviet Union that provide for international migratory bird protection. The MBTA authorizes the Secretary of the Interior to regulate the taking of migratory birds. The act provides that it shall be unlawful, except as permitted by regulations, "to pursue, take, or kill any migratory bird, or any part, nest or egg of any such bird" (United States Code [USC] Title 16, Section 703). The MBTA currently includes several hundred species and includes all birds native to the United States.

A.1.1.3 Bald and Golden Eagle Protection Act of 1940 (USC Title 16, Section 668)

The Bald and Golden Eagle Protection Act (BGEPA) of 1940 protects bald eagles (*Haliaeetus leucoephalus*) and golden eagles (*Aquila chrysaetos*) by prohibiting the taking, possession, and commerce of these species and established civil penalties for violation of this act. Take of bald and golden eagles includes to "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb." To disturb means to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available: (1) injury to an eagle; (2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior; or (3) nest abandonment, by substantially inferring with normal breeding, feeding, or sheltering behavior (*Federal Register*, volume 72, page 31132; 50 CFR 22.3).

The BGEPA was amended in 2022 to allow USFWS to issue permission for take of bald and golden eagles under specific circumstances as outlined in 50 CFR 22 Subpart C. Take permits may be issued where "the take is compatible with the preservation of the bald eagle and the golden eagle; is necessary to protect an interest in a particular locality; is associated with, but not the purpose of, the activity; and cannot practicably be avoided" (50 CFR 22.80).

A.1.1.4 Federal Clean Water Act (USC, Title 33, Sections 1521–1376)

The federal Clean Water Act (CWA) provides guidance for the restoration and maintenance of the chemical, physical, and biological integrity of the nation's waters.

Section 404 establishes a permit program administered by the United States Army Corps of Engineers (USACE) that regulates the discharge of the dredged or fill material into waters of the United States, including wetlands. The USACE implementing regulations are found in CFR Title 33, Sections 320 and 330. Guidelines for implementation are referred to as the Section 404(b)(1) Guidelines, which were developed by the United States Environmental Protection Agency (USEPA) in conjunction with USACE (40 CFR 230). The guidelines allow the discharge of dredged or fill material into the aquatic system only if there is no practicable alternative that would have less adverse impacts.

Section 401 requires that a Project applicant that is pursuing a federal license or permit allowing a discharge to waters of the United States obtain State Certification of Water Quality, thereby ensuring that the discharge will comply with provisions of the CWA. The State Water Resources Control Board (SWRCB) administers the certification program in California, primarily through its

regional boards. Section 402 establishes a permitting system for the discharge of any pollutant (except dredged or fill material) into waters of the United States.

Under Section 10 of the Rivers and Harbors Act, the USACE regulates the construction of any structure in or over any navigable water of the United States. Navigable waters are defined as "those waters of the U.S. that are subject to the ebb and flow of the tide shoreward to the mean high water mark, and/or are presently used, or have been used in the past, or may be susceptible to use to transport interstate or foreign commerce."

A.1.2 Applicable State Laws and Regulations

A.1.2.1 California Environmental Quality Act (California Public Resources Code, Sections 21000–21178, and Title 14 CCR, Section 753, and Chapter 3, Sections 15000–15387)

The California Environmental Quality Act (CEQA) is California's broadest environmental law. CEQA helps guide the issuance of permits and approval of projects. Courts have interpreted CEQA to afford the fullest protection of the environment within the reasonable scope of the statutes. CEQA applies to all discretionary projects proposed to be conducted or approved by a State, county, or city agency, as well as private projects requiring discretionary government approval.

The purpose of CEQA is to disclose to the public the significant environmental effects of a proposed discretionary project; prevent or minimize damage to the environment through development of project alternatives, mitigation measures, and mitigation monitoring; disclose to the public the agency decision-making process to approve discretionary projects; enhance public participation in the environmental review process; and improve interagency coordination.

State CEQA Guidelines Section 15380(b) provides that a species not listed on the federal or State list of protected species nonetheless may be considered rare or endangered for purposed of CEQA if the species can be shown to meet certain specified criteria. These criteria have been modeled after the definition in FESA and the section of the California Fish and Game Code dealing with rare or endangered plants or animals.

A.1.2.2 California Endangered Species Act (California Fish and Game Code Section 2050 et seq.)

The California Endangered Species Act (CESA) establishes the policy of the State to conserve, protect, restore, and enhance threatened or endangered species and their habitats. CESA mandates that State agencies should not approve projects that would jeopardize the continued existence of threatened or endangered species if reasonable and prudent alternatives are available that would avoid jeopardy. For projects that would result in take of a species listed under CESA, a project proponent would need to obtain a take permit under Section 2081(b). Alternatively, the California Department of Fish and Wildlife (CDFW) has the option of issuing a Consistency Determination (Section 2080.1) for projects that would affect a species listed under both CESA and FESA, as long as compliance with FESA would satisfy the "fully mitigate" standard of CESA and other applicable conditions.

A.1.2.3 Porter-Cologne Water Quality Control Act

"Waters of the State" are broadly defined by the Porter-Cologne Water Quality Control Act (§ 1305(e)) as "any surface water or groundwater, including saline waters, within the boundaries of the state." Under this definition, isolated wetlands that may not be subject to regulations under federal law are waters of the State.

The California Water Code defines "waters of the State" to include any surface water or groundwater, including saline waters, within the boundaries of the State.

On April 2, 2019, the SWRCB adopted its *State Policy for Water Quality Control: State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State* (revised April 6, 2021), herein referred to as Procedures, in which it defined wetlands as follows:

> *An area is wetland if, under normal circumstances, (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and (3) the area's vegetation is dominated by hydrophytes or the area lacks vegetation.*

All artificial wetlands that are less than 1 acre in size and do not satisfy the criteria set forth in 2, 3.a, 3.b, or 3.c are not waters of the State.

All waters of the United States, including that meet the current and any historic definition, are also considered waters of the State (CCR 23 3831 (w)). Therefore, waters of the State include features that have been determined by the USEPA or the USACE to be "waters of the United States" in an approved jurisdictional determination; "waters of the United States" identified in an aquatic resource report verified by the USACE upon which a permitting decision was based; and features that are consistent with any current or historic final judicial interpretation of "waters of the United States" or any current or historic federal regulation defining "waters of the United States" under the federal CWA.

The State's definition of a wetland deviates from the USACE procedures in that a lack of vegetation does not disqualify a feature from identification as a wetland water of the State, otherwise referred to as nonfederal waters of the State.

The State is further required to comply with Executive Order W-59-93 published August 23, 1993, which states that the "Water Boards' regulation of dredge and fill activities must ensure "no net loss" and long-term net gain in the quantity, quality, and permanence of wetlands acreages and values…"

A.1.2.4 Various Sections of the California State and Fish and Game Code

Section 460 and Sections 4000-4003. Chapter 5 of the California Fish and Game Code describes regulations concerning the take of furbearing mammals, including defining methods of take, seasons of take, bag and possession limits, and areas of the State where take is allowed. Sections 4000–4003 define furbearing mammals and the issuance of permits by the Department. Sections 460 and 4000

identify fisher, marten, river otter, desert kit fox, and red fox as furbearing mammals, and Section 460 prohibits take of these species at any time. This section of the California Fish and Game Code has historically been interpreted to apply to restrictions on furbearer trapping permits but has recently been expanded by CDFW to apply to any forms of take and treated as if these species were listed under CESA.

Sections 1600 through 1616. CDFW regulates all activities (construction, discharge, dredge, diversion, etc.) within rivers, streams, and lakes, and associated riparian vegetation, under California Fish and Game Code Section 1600 *et seq*. This includes all such features on public and private lands throughout California. The regulatory limits of their jurisdiction are generally considered to include all area within the bed, bank, and channel of a river, stream, or lake, plus the outer extent of riparian vegetation immediately adjacent to these aquatic features. Recently CDFW has asserted jurisdiction as far out as the limits of the 100-year floodplain around rivers, streams, and lakes. This also includes man-made and/or channelized streams located where natural streams historically occurred, or that are connected to natural streams. Isolated wetlands that are not located within the jurisdictional limits described here are not regulated by CDFW.

Sections 3511, 4700, 5050, and 5515. The protection of fully protected species is described in Sections 3511, 4700, 5050, and 5515 of the California Fish and Game Code. These statues prohibit the take or possession of fully protected species. CDFW is unable to authorize incidental take of fully protected species, except as allowed for in an approved Natural Communities Conservation Plan (NCCP) or through direct legislative action.

Sections 1900 through 1913—Native Plant Protection Act. California's Native Plant Protection Act (NPPA) requires all State agencies to use their authority to carry out programs to conserve endangered and rare native plants. Provision of the NPPA prohibit that taking of listed plants from the wild and require notification of CDFW at least 10 days in advance of any change in land use. This allows CDFW to salvage listed plant species that otherwise would be destroyed. A project proponent is required to conduct botanical inventories and consult with CDFW during project planning to comply with the provisions of this act and sections of CEQA that apply to rare or endangered plants.

A.1.3 Local and Regional Laws, Regulations, and Policies

A.1.3.1 City of Clovis General Plan

Table A.1 highlights the specific policies in the City's General Plan Open Space and Conservation Element (City of Clovis 2014) related to biological resources that are applicable to the Project site.

A.1.3.2 Local Ordinances

Chapter 9.30 of the City's municipal code outlines the requirements for the protection of trees within the city limits, including requirements for permits prior to removal of any tree on private property (9.30.020) and defines protected trees (9.30.040) as including heritage trees, any tree required to be planted or retained as a condition of approval, multi-trunk trees, any tree with a diameter of 12 inches or more when measure four feet above grade, parkway trees, and any tree memorialized under a site plan review.

Table A.1: Open Space and Conservation Element

Goal 2: Natural, agricultural, and historic resources that are preserved and promoted as key features for civic pride and identity	
Policy 2.1	Stewardship. Promote responsible planning and management of land and resources among property owners.
Policy 2.2	New development. Encourage new development to incorporate on-site natural resources and low impact development techniques.
Policy 2.3	Visual resources. Maintain public views of open spaces, parks, and natural features. Enhance views along roadways and trails. Preserve Clovis' viewshed of the surrounding foothills and orient new development to capitalize on views of the Sierra Nevada.
Policy 2.4	Agricultural lands. Preserve the city's agricultural legacy through the Agricultural land use designation, memorialize agricultural history and culture, and facilitate thoughtful conversion of lands to development.
Policy 2.5	Right to farm. Support, encourage, and protect agricultural operations within Clovis and recognize their right to farm.
Policy 2.6	**Biological resources. Support the protection of biological resources through the conservation of high quality habitat area.**
Policy 2.7	**Native plants. Encourage the use of native and climate-appropriate plant species and prohibit the use of plant species known to be invasive.**
Policy 2.8	**Urban forest. Maintain and enhance a diverse and healthy urban forest on public and private lands.**
Policy 2.9	National and state historic resources. Preserve historical sites and buildings of state or national significance in accordance with the Secretary of Interior Standards for Historic Rehabilitation.
Policy 2.10	Local historic resources. Encourage property owners to maintain the historic integrity of the site by (listed in order of preference): preservation, adaptive reuse, or memorialization.
Policy 2.11	Old Town. Prioritize the preservation of the historic character and resources of Old Town.
Policy 2.12	Public education. Support public education efforts for residents and visitors about the unique historic, natural, and cultural resources in Clovis.

Source: (City of Clovis 2014)

APPENDIX B

REPRESENTATIVE SITE PHOTOS

Photo 1: View of project site looking southwest from eastern project boundary.

Photo 2: View of western edge of project site, looking south from northwest corner.

Photo 3: View of orchard in central portion of project site, looking south from northern Behymer Avenue.

Photo 4: View of residence on eastern boundary of project site, looking east.

APPENDIX C

PLANT AND ANIMAL SPECIES OBSERVED WITHIN THE BIOLOGICAL STUDY AREA

Table C.1: Plant Species Observed within the Biological Study Area

Scientific Name	Common Name	Status	Native or Introduced
Trees			
Prunus dulcis	sweet almond	None	Introduced
Herbs			
Amsinckia sp.	fiddleneck	None	Native
Convolvulus arvensis	field bindweed	None	Introduced
Erodium botrys	long beaked filaree	None	Introduced
Erodium cicutarium	red stemmed filaree	None	Introduced; Cal-IPC Limited
Lactuca serriola	prickly lettuce	None	Introduced
Malva parviflora	cheeseweed	None	Introduced
Matricaria discoidea	pineapple weed	None	Native
Grasses			
Bromus diandrus	ripgut	None	Introduced; Cal-IPC Moderate
Bromus hordeaceus	soft chess	None	Introduced; Cal-IPC Limited
Cynodon dactylon	Bermuda grass	None	Introduced; Cal-IPC Moderate

Source: LSA Site Visit, May 1, 2024.
Notes: Rating system: **High** = several ecological impacts; **Moderate** = substantial but not severe ecological impacts; **Limited** = minor ecological impacts or not enough information to justify higher score; **Alert** = species ranked as High or Moderate with limited distribution, but potential to spread; **Watch** = could pose a high risk of becoming invasive in the future.
Cal-IPC = California Invasive Plant Council.

Table C.2: Animal Species Observed within the Biological Study Area

Scientific Name	Common Name	Status	Native or Introduced
Birds			
Buteo jamaicensis	red-tailed hawk	None	Native
Corvus corax	common raven	None	Native
Mimus polyglottos	northern mockingbird	None	Native
Mammals			
Thomomys bottae	pocket gopher	None	Native
Otospermophilus beecheyi	California ground squirrel	None	Native

Source: LSA Site Visit, May 1, 2024.

APPENDIX D

SPECIAL-STATUS SPECIES EVALUATION

Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

Scientific Name Common Name	Status (FESA/CESA CRPR/CDFW)	Habitat Requirements	Potential to Occur	Rationale
Plants				
Calycadenia hooveri Hoover's calycadenia	--/-- 1B.3	Annual herb; blooms July to September; cismontane woodland, valley and foothill grassland; usually on rocky substrate; elevation 215 to 985 feet; presumed extant in Central Valley from San Joaquin County south to Madera County.	No	No suitable habitat present.
Calycadenia spicata spicate calycadenia	--/-- 1B.3	Annual herb; blooms May to September; cismontane woodland, valley and foothill grassland; variable microhabitat; elevation 130 to 4,595 feet; multiple presumed extant records in Central Valley from Butte County south to Kern County.	No	No suitable habitat present.
Carpenteria californica tree-anemone	--/ST 1B.2	Perennial evergreen shrub; blooms May to July, sometimes as early as April; chaparral, cismontane woodland; usually on granitic soils; elevation 1,115 to 4,395 feet; only known from Madera and Fresno County foothills.	No	No suitable habitat present and project outside known elevational range.
Castilleja campestris var. *succulenta* succulent owl's clover	--/-- 1B.2	Annual herb (hemiparasitic); blooms April to May, and sometimes as early as March; vernal pools, often acidic; 165–2,460 feet; Central Valley floor from San Joaquin County south to Fresno County.	No	No suitable habitat present.
Caulanthus californicus California jewelflower	FE/SE 1B.1	Annual herb; blooms Feb to May; chenopod scrub, pinyon and juniper woodland, and valley/foothill grassland; usually on sandy soils; elevation 200–3,280 feet; documented in Fresno, Kern, San Luis Obispo, Kings, Tulare, and Santa Barbara Counties.	No	No suitable habitat present.
Cryptantha hooveri Hoover's cryptantha	--/-- 1A	Annual herb; blooms April to May; inland dunes, valley and foothill grassland (sandy soils); elevation 30-490 feet; scattered presumed extant occurrences in Sacramento, Contra Costa, Stanislaus, and Madera Counties; may be extirpated in California.	No	No suitable habitat present.
Downingia pusilla dwarf downingia	--/-- 2B.2	Annual herb; blooms March to May; vernal pools, valley and foothill grasslands (mesic); elevation 5-1,460 feet; scattered occurrences in the Central Valley from Tehama County south to Fresno County and in the Bay Area.	No	No suitable habitat present.

Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

Scientific Name Common Name	Status (FESA/CESA CRPR/CDFW)	Habitat Requirements	Potential to Occur	Rationale
Eryngium spinosepalum spiny-sepaled button-celery	--/-- 1B.2	Annual or perennial herb; blooms April to May; occurs in valley and foothill grassland, particularly in vernal pools, from 260 to 3,200 feet elevation.	No	No suitable habitat present.
Gratiola heterosepala Boggs Lake hedge-hyssop	--/SE 1B.2	Annual herb; blooms April to August; marshes and swamps (incl. lake margins), vernal pools; clay soils; elevation 35 to 7,790 feet; scattered occurrences in northern California from Modoc County south to Fresno County.	No	No suitable habitat present.
Imperata brevifolia California satintail	--/-- 2B.1	Perennial rhizomatous herb; blooms September to May; chaparral, coastal scrub, Mojavean desert scrub, riparian scrub, meadows, and seeps; usually mesic conditions; elevation 0 to 3,985 feet; documented throughout California in the Central Valley, the Mojave desert, and southern California.	No	No suitable habitat present.
Lagophylla dichotoma forked hare-leaf	--/-- 1B.1	Annual herb; blooms April to May; cismontane woodland and valley and foothill grassland; sometimes on clay soils; elevation 150 to 1,100 feet; known only from Central Valley from Calaveras County to Fresno County.	No	No suitable habitat present.
Leptosiphon serrulatus Madera leptosiphon	--/-- 1B.2	Annual herb; blooms April to May; cismontane woodland; lower montane conifer forest; elevation 985 to 4,265 feet; documented in the Central Valley from Mariposa County south to Kern County.	No	No suitable habitat present.
Lupinus citrinus var. *citrinus* orange lupine	--/-- 1B.2	Annual herb; blooms April to July; chaparral, cismontane woodland, lower montane conifer forest; granitic substrate; elevation 1,245 to 5,580 feet; only known from Madera and Fresno County foothills.	No	No suitable habitat present and project outside known elevational range.
Navarretia myersii ssp. *myersii* pincushion navarretia	--/-- 1B.1	Annual herb; blooms April and May; vernal pools; often acidic soils; elevation 65 to 1,085 feet; known from Central Valley from Placer County south to Fresno County.	No	No suitable habitat present.
Orcuttia inaequalis San Joaquin Valley Orcutt grass	FT/SE 1B.1	Annual herb; blooms April–September; vernal pools; 35 to 2,475 feet; Central Valley from Solano County south to Tulare County.	No	No suitable habitat present.
Orcuttia pilosa hairy Orcutt grass	FE/SE 1.B1	Annual herb; blooms May–September; vernal pools; 150 to 655 feet; scattered occurrences in Tehama, Glenn, Stanislaus, Merced, and Madera Counties.	No	No suitable habitat present.

Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

Scientific Name Common Name	Status (FESA/CESA CRPR/CDFW)	Habitat Requirements	Potential to Occur	Rationale
Pseudobahia bahiifolia Hartweg's golden sunburst	FE/SE 1B.1	Annual herb; blooms March to April; cismontane woodland, valley and foothill grassland; often on acidic clay soils; elevation 50 to 490 feet; widely scattered occurrences from Yuba County south to Fresno County; extirpated from southern California and mostly extirpated from Central Valley.	No	No suitable habitat present.
Pseudobahia peirsonii San Joaquin adobe sunburst	FT/SE 1B.1	Annual herb; blooms March to April; occurs in cismontane woodland and valley and foothill grassland (on adobe clay) from 295 to 2,625 feet elevation.	No	No suitable habitat present.
Sagittaria sanfordii Sanford's arrowhead	--/-- 1B.2	Perennial rhizomatous herb (emergent); blooms May–October and sometimes into November; marshes and swamps (shallow freshwater); 0 to 2,135 feet; scattered occurrences in northern California, the Central Valley, the Bay Area, and the Los Angeles area.	No	No suitable habitat present.
Tuctoria greenei Greene's tuctoria	FE/SR 1B.1	Annual herb; blooms May–July and sometimes September; vernal pools; 100 to 3,510 feet; Central Valley from San Joaquin County to Tulare County; valley floor in Tehama, Glenn, and Butte Counties, and the Modoc plateau area.	No	No suitable habitat present.
Invertebrates				
Bombus crotchii Crotch bumble bee	--/SC	Nearly endemic to California; occurs in grassland and shrublands in southern and central California; flight period for queens is from late February to late October; flight period for workers and males is from Late March through September; nests underground; likely overwinters in soft soil or under leaf litter; generalist forager.	No	No suitable habitat present. Site heavily disturbed.
Branchinecta conservatio Conservancy fairy shrimp	--/ST	California endemic found in large, turbid vernal pools and wetlands in valley and foot grassland in the Central Valley. Pools usually found in swales formed by old, braided alluvium and usually last until June.	No	No aquatic habitat present.

Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

Scientific Name Common Name	Status (FESA/CESA CRPR/CDFW)	Habitat Requirements	Potential to Occur	Rationale
Branchinecta lynchi vernal pool fairy shrimp	FT/--	Occur in a variety of vernal pool habitats that range from small, clear pools to large, turbid and alkaline pools; more common in pools less than 0.05 acre, typically as part of larger vernal pool complexes; adults active from early December to early May; pools must hold water for at least 18 days, the minimum to complete the life cycle if temperatures are optimal; eggs are laid in spring and persist through the dry season as cysts; current California distribution includes the Central Valley and coast ranges; threatened by habitat loss, degradation, and fragmentation, and interference with vernal pool hydrology.	No	No aquatic habitat present.
Danaus plexippus monarch butterfly	FC/--	Migrant; lays eggs on milkweed (primarily *Asclepias* spp.); overwinters along the coast in dense stands of eucalyptus, Monterey pine, and Monterey cypress that provide indirect sunlight, moisture for hydration, protection from winds, and above-freezing temperatures.	No	No suitable wintering or breeding habitat present.
Desmocerus californicus dimorphus valley elderberry longhorn beetle	FT/--	Requires elderberry shrubs for reproduction and survival, with stems greater than 1 inch; occurs only in the Central Valley north of the San Joaquin River; occurs below 500 feet elevation; eggs laid on elderberry shrubs; larvae burrow into stems for food and metamorphosis; adults emerge from the stem and spend the remainder of their lives on the same shrub or on the ground underneath.	No	No elderberry shrubs present.
Lepidurus packardi vernal pool tadpole shrimp	E/SA/--	Vernal pools and swales in the Sacramento Valley containing clear to highly turbid water. Pools commonly found in grass bottomed swales of unplowed grasslands; some pools are mud-bottomed.	No	No aquatic habitat present.

Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

Scientific Name Common Name	Status (FESA/CESA CRPR/CDFW)	Habitat Requirements	Potential to Occur	Rationale
Amphibians				
Ambystoma californiense California tiger salamander	FT/ST SSC	Small salamander found in vernal and seasonal pools and associated grasslands, oak savanna and woodland, and coastal scrub in the Central Valley from Tulare County north to the Sacramento area and along the Central Coast from Santa Barbara County north to the San Franciso Bay; 0–3,200 feet elevation; spends most of the year in small mammal burrows; breeding season is November–February; requires seasonal ponds for breeding and egg laying; can travel more than 3,000 feet between aquatic and upland habitats.	No	No aquatic habitat present on-site. Site has been heavily disturbed for agricultural use for decades. No presumed extant CNDDB records within known dispersal distance of 1.5 miles from project site. One unprocessed CNDDB record approximately 1.5 miles to east of individuals near Fowler Avenue and is separated from project site by Enterprise Canal, which appears to carry water year round and thus acts and a barrier. Nearest seasonal wetland is approximately 0.5 mile to northeast based on NWI mapping and is also separated from project site by Enterprise Canal.
Rana aurora draytonii California red-legged frog	T/CSC/--	Lowland and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation and associated upland habitat.	No	No aquatic habitat present.
Rana boylii foothill yellow-legged frog	--/ST	Found in aquatic habitats with flowing water and partially shaded by riparian habitat. Streams are shallow and have riffles from rocky substrate. Lays eggs on cobble-size rock. Water must be present for at least 15 weeks for metamorphosis. Rarely found away from permanent water; further distance from water recorded is 165 feet.	No	No aquatic habitat present.

Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

Scientific Name Common Name	Status (FESA/CESA CRPR/CDFW)	Habitat Requirements	Potential to Occur	Rationale
Spea hammondii western spadefoot	FC/-- SSC	Species relies on vernal pools for breeding where predators cannot become established; open areas with sand or gravelly soils in a variety of habitats: grasslands, coastal scrub, woodlands, chaparral, sandy washes, lowland river floodplains, alkali flats, foothills, and mountains; endemic to California and northern Baja California; distribution is from Redding south throughout the Central Valley and foothills, throughout the South Coast Ranges into coastal southern California to the Transverse and Peninsular mountains; elevation is from sea level to 4,500 feet.	No	No aquatic habitat present on-site. Site has been heavily disturbed for agricultural use for decades. Nearest CNDDB record ~2.0 miles north of project site. Unprocessed CNDDB record ~2.1 miles to southeast.
Reptiles				
Actinemys [=Emys] marmorata northwestern pond turtle	FC/-- SSC	Highly aquatic and diurnally active; found in ponds, lakes, rivers, streams, creeks, marshes, and irrigation ditches with vegetation and rocky/muddy bottoms; wide variety of habitats; needs basking areas near water (logs, rocks, vegetation mats, banks); may enter brackish water and even seawater; digs nest on land near water; range is from north of the San Francisco Bay area south, including the Central Valley.	No	No aquatic habitat present.
Anniella pulchra northern California legless lizard	--/-- SSC	Secretive fossorial lizard found in many habitats, especially valley and foothill grassland, chaparral, coastal scrub, and coastal dune; most commonly associated with sandy or loose organic soils with leaf litter; elevation from near sea level to 6,000 feet; may hibernate in inland areas with colder winter temperatures; primarily associated with foothills and mountains from Ventura County north to San Joaquin and Contra Costa Counties, and in the western Sierra Nevada foothills in Fresno and Tulare Counties.	No	No suitable habitat present.

Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

Scientific Name Common Name	Status (FESA/CESA CRPR/CDFW)	Habitat Requirements	Potential to Occur	Rationale
Gambelia silus [=sila] blunt-nosed leopard lizard	FE/SE SFP	Occurs in semiarid habitats within the southern Central Valley and Cuyama Valley; habitats typically are flat and have large open areas with scattered shrubs for refuge; uses small mammal burrows for shelter; spends most of the year underground, surfacing in spring/early summer to breed and eat; hatchlings surface in the fall to eat; may interbreed with long-nosed leopard lizard in Cuyama Valley; threatened by habitat loss/fragmentation and drought; elevation from 100–2,400 feet.	No	No suitable habitat present.
Phrynosoma blainvillii coast horned lizard	--/-- SSC	Prefers sandy/loose soils in grassland, forests, woodlands, and open chaparral; often found along sand washes and dirt roads with scattered shrubs for refuge; specializes in consuming ants; distribution includes coastal California from Baja California north to the Bay Area, southeastern desert regions, southern Central Valley flats and foothills, and surrounding mounts on drier, warmer slopes; threatened by habitat loss/fragmentation and the spread of invasive ant species displacing native prey; elevation from sea level to 8,000 feet.	No	No suitable habitat present.
Thamnophis gigas giant gartersnake	FT/ST	Highly aquatic snake found in marshes and sloughs, drainage canals, and irrigation ditches; prefers vegetation close to water for basking; does not venture more than 200 feet from aquatic habitat; elevation from sea level to 400 feet; endemic to California; currently ranges from Glenn County to southern edge of San Francisco Bay Delta, and from Merced County to northern Fresno County.	No	No aquatic habitat present.
Birds				
Agelaius tricolor tricolored blackbird	--/ST SSC	Colonial breeder that prefers freshwater, emergent wetlands with tall, dense cattails or tules, but also thickets of willow, blackberry, wild rose, and tall herbs; breeding colonies are minimum ~50 pairs; forages in pastures, grain fields, and similar habitats near breeding areas.	No	No suitable aquatic habitat present.

Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

Scientific Name Common Name	Status (FESA/CESA CRPR/CDFW)	Habitat Requirements	Potential to Occur	Rationale
Aquila chrysaetos golden eagle	--/-- FP, WL	The golden eagle is an uncommon resident of mountainous and valley-foothill areas. Nesting occurs on cliff ledges and overhangs or in large trees. Foraging typically occurs in open terrain where small rodent prey is seen while soaring high above ground. This species occurs throughout California except the central valley.	No	No suitable habitat present and project is in the valley portion of Fresno County.
Athene cunicularia burrowing owl	--/-- SSC	Occupies a variety of open, semi-arid to arid habitats throughout central and southern California, including desert regions; prefers open habitats with few shrubs or trees; most active around sunrise and sunset; utilizes burrows constructed by mammals year-round for shelter and nesting; well documented in urban areas where patches of undeveloped areas are present (e.g., canals, airports, drainage basins) and in areas of dense agricultural development, particularly where canals provide burrow habitat; forages primarily for rodents and insects within several miles of its burrow, usually in open, grassy habitats if available; has been observed hunting bats and insects around parking lot lights; threats include development resulting in habitat loss/fragmentation.	No	Foraging habitat limited due to disturbance. No suitable burrows present. Site has been heavily disturbed for agricultural use for decades. Nearest CNDDB occurrence is ~6 miles to northwest.
Buteo swainsoni Swainson's hawk	--/ST	Resident and migrant throughout the Central Valley, Klamath Basin, Northeastern Plateau, Mojave Desert, Antelope Valley, and elsewhere; breeds in stands with few trees in juniper-sage flats, riparian areas, and in oak savannahs; usually nests in scattered trees surrounded by foraging habitat; forages primarily for small mammals in grasslands and open desert scrublands or suitable grain fields or livestock pastures; occasionally eats insects, amphibians, reptiles, and birds; usually found near water.	Yes	Suitable nest trees within 0.5 mile of project site. Project site offers limited foraging. Unprocessed CNDDB record of nest recorded in 2018 approximately 4 miles to the west.
Gymnogyps californianus California condor	FE/SE FP	Nests on deep canyons with clefts in rocky walls surrounded by vast expanses of grasslands, chaparral, and savannah for scavenging in mountain ranges. Roosts on ledges or large old-growth trees. Can forage up to 100 miles from nest/roost.	No	Project not located in vicinity of suitable roosting or nesting habitat.

Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

Scientific Name Common Name	Status (FESA/CESA CRPR/CDFW)	Habitat Requirements	Potential to Occur	Rationale
Haliaeetus leucocephalus bald eagle	FD/SE SSC	Winters locally at deep lakes and reservoirs feeding on fish and waterfowl. Locally rare throughout North America.	No	No suitable aquatic habitat present.
Lanius ludovicianus loggerhead shrike	--/SSC/-- (nesting)	Nests in shrubs in coastal sage scrub and chaparral habitats or in trees that overlook grasslands; preys over semi-open habitats and feeds primarily on large insects and often skewers prey on a barb or thorn to cache for later feeding.	No	No suitable habitat present.
Vireo bellii pusillus least Bell's vireo	FE/SE	Widespread throughout western Sierra Nevada and coastal valleys and foothills south of Santa Clara County; occurs below 2,000 feet elevation; migrant; winters in Mexico and breeds in California from March to August; nests in dense riparian habitat along streams; prefers willows, cottonwoods, Baccharis, wild blackberry, or mesquite; feeds on insects and some fruits.	No	No suitable riparian habitat present.
Xanthocephalus xanthocephalus yellow-headed blackbird	--/-- SSC	Breeds in the Imperial and Colorado River valleys, and the Central Valley; occasionally in the Coast Ranges; migrant or uncommon winter resident; breeds mid-April to late July; nests and roosts in colonies over water in fresh emergent wetlands, especially cattails, tules, or other emergent plants; feeds on insects, spiders, and snails, and occasionally grains.	No	No suitable aquatic habitat present.
Mammals				
Antrozous pallidus pallid bat	--/-- SSC	Occurs in low elevations in deserts, grasslands, shrublands, woodlands, and forest throughout California from sea level up through mixed conifer forests; most common in open, dry, habitats with rocky areas for roosting; roosts usually in groups of 20 or more; day roosts in caves, crevices, mines, and occasionally hollow trees and buildings; night roosts sometimes in more open areas; roost must protect against high temps; maternity colonies form in April; hibernates in winter; needs water; very sensitive to roost disturbance.	No	No suitable habitat present.

Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

Scientific Name Common Name	Status (FESA/CESA CRPR/CDFW)	Habitat Requirements	Potential to Occur	Rationale
Corynorhinus townsendii Townsend's big-eared bat	--/-- SSC	Found throughout California in a variety of habitats. Roosts in caves, mines, tunnels, building, or other human-made structures. Requires water. Hibernates. Extremely sensitive to human disturbance.	No	No suitable roosts present and project site heavily disturbed.
Dipodomys nitratoides exilis Fresno kangaroo rat	FE/SE	Occurs on alkali open grassland on bare alkaline clay-based soils; nocturnal species; burrows with tunnels approximately 12 to 15 inches below ground; threatened by predation and disease; historically occurred on the valley floor in Kings, Fresno, Madera, and Merced counties, but may be extirpated.	No	No suitable habitat present.
Euderma maculatum spotted bat	--/-- SSC	Found in a wide variety of habitats from grasslands and deserts through mixed conifer forests. Roosts on rock crevices in cliffs or caves. Moth specialist. Feeds over water. Drinks water.	No	No suitable roosts present.
Lasiurus frantzii western red bat	--/-- SSC	Roosts in trees in woodland and forest habitats from sea level to up through mixed conifer forests. Prefers habitat edges with open areas for foraging. Feeds on variety of insects. Requires water. Solitary but may nurse in colonies. Forages up to 0.6 miles from day roost.	No	No suitable roosts present.
Taxidea taxus American badger	--/-- SSC	Found throughout California except in the North Coast area; open grasslands, deserts, and edge of scrub and woodland habitats; requires loose soils; does not occur in irrigated agriculture; active year-round, both nocturnal and diurnal; young are born in March and April; primarily eats small mammals and occasionally reptiles, insects, birds, eggs, and carrion; capable of digging a new den each night.	No	Project and vicinity heavily disturbed by development and intensive agricultural uses. No suitable dens observed.

Table D.1: Special-Status Plant Species in the Regional Vicinity of the Project Site

Scientific Name Common Name	Status (FESA/CESA CRPR/CDFW)	Habitat Requirements	Potential to Occur	Rationale
Vulpes macrotis mutica San Joaquin kit fox	FE/ST	Endemic to the Central Valley; San Joaquin Valley, Carrizo Plain, Salinas Valley, Cuyama Valley, and other small valleys in western foothills; arid to semi-arid grasslands, open shrublands, savannahs, and grazed lands with loose-textured soils; highly adaptable and documented in urban developed areas; uses burrows year-round for shelter, escape from predators, and rearing young; will use man-made structures, such as pipes, for denning; feeds primarily on small mammals but will also consume birds, reptiles, and insects and scavenge for human food; intensively maintained agricultural areas avoided; threatened by habitat loss and fragmentation, vehicle strikes, and disease; current mange outbreak in urban population in Bakersfield and in nearby natural areas.	No	Area heavily disturbed/developed for urban, rural residential, and intensive agricultural uses. Project site heavily disturbed. No suitable burrows/dens present.

Sources: CDFW 2024a; CDFW 2024b; CDFW 2024c; CNPS 2024; USFWS 2024b; Zeiner et al. 1990.

Notes:

CRPR (California Rare Plant Rank):
- 1A Presumed Extinct in California
- 1B Rare, Threatened, or Endangered in California and elsewhere
- 2A Plants presumed extirpated in California, but more common elsewhere
- 2B Plants Rare, Threatened, or Endangered in California, but more common elsewhere

CRPR Threat Code Extension:
- .1 Seriously endangered in California (over 80% of occurrences threatened / high degree and immediacy of threat)
- .2 Fairly endangered in California (20-80% occurrences threatened)
- .3 Not very endangered in California (<20% of occurrences threatened)

CDFW = California Department of Fish and Wildlife
CESA = California Endangered Species Act
FESA = Federal Endangered Species Act

FE	Federally Endangered
FT	Federally Threatened
FC	Federal Candidate/Proposed Species
FS	Federally Sensitive
SE	State Endangered
ST	State Threatened
SC	State Candidate/Proposed
SS	State Sensitive
SSC	State Species of Special Concern
SFP	State Fully Protected
SR	State Rare

CULTURAL RESOURCE ASSESSMENT

FOR THE DEYOUNG

DEVELOPMENT, CITY OF CLOVIS

FRESNO COUNTY CALIFORNIA

Prepared by

Melinda A. Peak
Peak & Associates, Inc.
3941 Park Drive, Suite 20-329
El Dorado Hills, CA 95762
(916) 939-2405

Prepared for

LSA
2565 Alluvial Avenue, Suite 172
Clovis, CA 93611

June 24, 2024
(Job #24-018)

INTRODUCTION

The project involves the development of a residential development on a tract of three parcels totaling 37.92 acres, located on the south side of Behmeyer Avenue, between Peach Avenue on the west and Minnewawa Avenue on the east, in the City of Clovis, California (Figures 1 and 2).

The project area lies in the northeast ¼ of Section 19, Township 12 S, Range 20 E, mapped on the Friant 7.5' USGS topographic quadrangle (Figure 1).

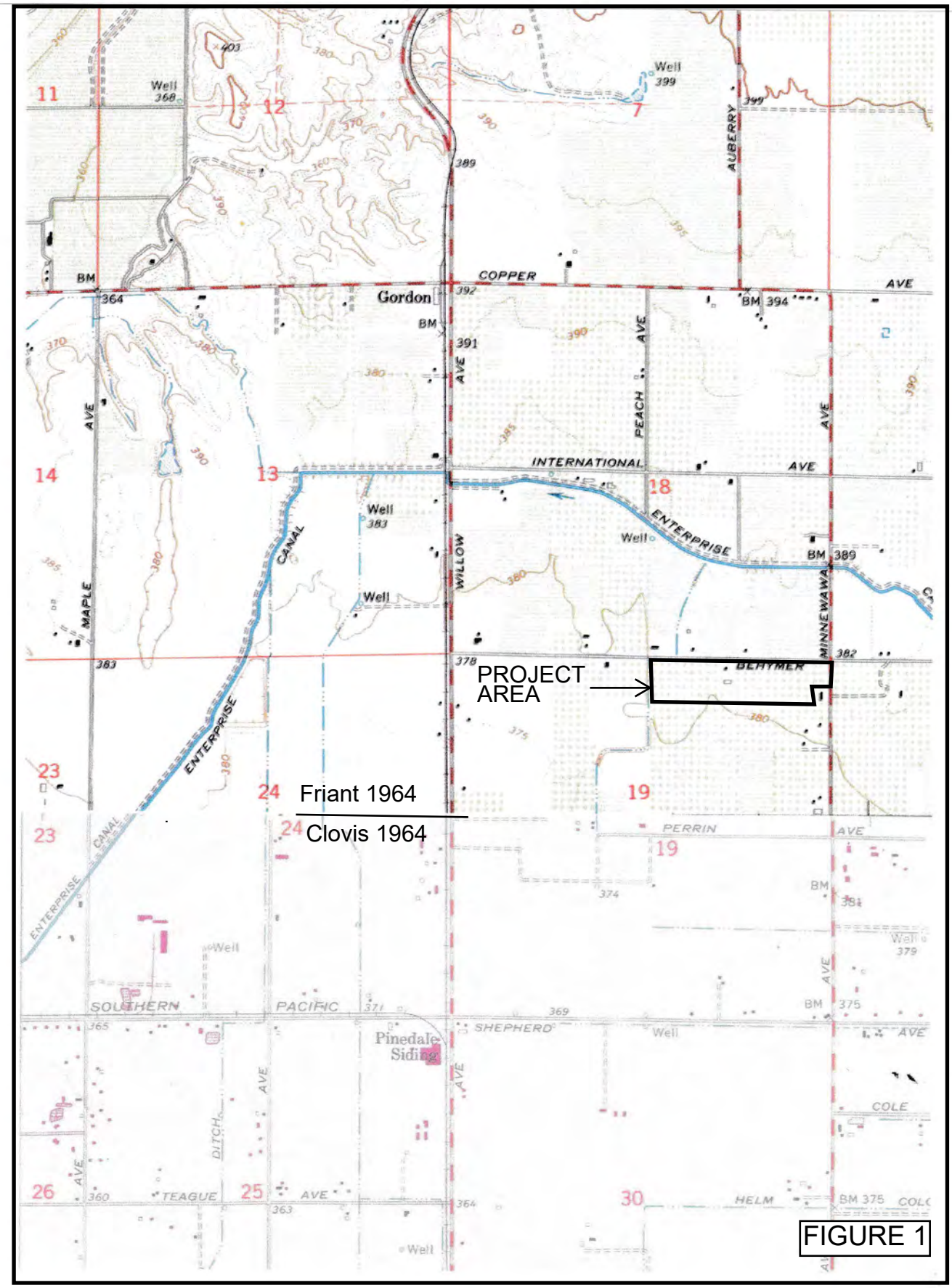
Melinda A. Peak, senior historian/archeologist with Peak & Associates, Inc. served as principal investigator for the study with Michael Lawson, senior archeologist (resumes, Appendix 1), completing the field survey of the project area.

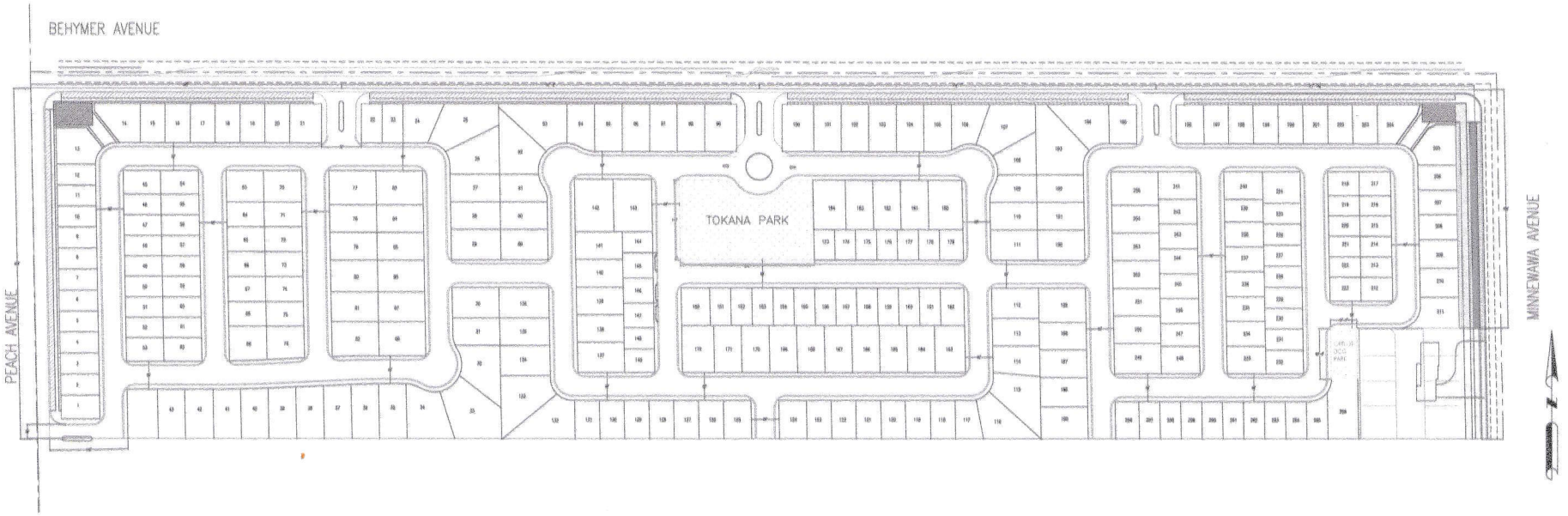
STATE REGULATIONS

State historic preservation regulations affecting this project include the statutes and guidelines contained in the California Environmental Quality Act (CEQA; Public Resources Code sections 21083.2 and 21084.1 and sections 15064.5 and 15126.4 (b) of the CEQA Guidelines). CEQA Section 15064.5 requires that lead agencies determine whether projects may have a significant effect on archaeological and historical resources. Public Resources Code Section 21098.1 further cites: A project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment.

An "historical resource" includes, but is not limited to, any object, building, structure, site, area, place, record, or manuscript that is historically or archaeologically significant (Public Resources Code section 5020.1).

Advice on procedures to identify such resources, evaluate their importance, and estimate potential effects is given in several agency publications such as the series produced by the Governor's Office of Planning and Research (OPR), CEQA and Archaeological Resources, 1994. The technical advice series produced by OPR strongly recommends that Native American concerns and the concerns of other interested persons and corporate entities, including, but not limited to, museums, historical commissions, associations, and societies be solicited as part of the process of cultural resources inventory. In addition, California law protects Native American burials, skeletal remains, and associated grave goods regardless of the antiquity and provides for the sensitive treatment and disposition of those remains (California Health and Safety Code Section 7050.5, California Public Resources Codes Sections 5097.94 et al).


PROJECT AREA
Friant 1964
Clovis 1964
FIGURE 1



38' X 68'- TYP	91 LOTS	PARK SPACE:	PEDESTRIAN TRAIL
45' X 70'- TYP	75 LOTS	0.74 AC- TOKANA PARK	BIKE TRAIL
50' X 85'- TYP	100 LOTS	0.10 AC- DOG PARK	TRAIL LANDSCAPING
TOTAL SFR LOTS	266		STREET LANDSCAPING

FIGURE 2

The California Register of Historical Resources (Public Resources Code Section 5020 et seq.)

The State Historic Preservation Office (SHPO) maintains the California Register of Historical Resources (CRHR). Properties listed, or formally designated as eligible for listing, on the National Register of Historic Places are automatically listed on the CRHR, as are State Landmarks and Points of Interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys.

For the purposes of CEQA, an historical resource is a resource listed in, or determined eligible for listing in the California Register of Historical Resources. When a project will impact a site, it needs to be determined whether the site is an historical resource. The criteria are set forth in Section 15064.5(a) (3) of the CEQA Guidelines, and are defined as any resource that does any of the following:

A. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;

B. Is associated with the lives of persons important in our past;

C. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or

D. Has yielded, or may be likely to yield, information important in prehistory or history.

In addition, the CEQA Guidelines, Section 15064.5(a) (4) states:

The fact that a resource is not listed in, or determined to be eligible for listing in the California Register of Historical Resources, not included in a local register of historical resources (pursuant to section 5020.1(k) of the Public Resources Code), or identified in an historical resources survey (meeting the criteria in section 5024.1(g) of the Public Resources Code) does not preclude a lead agency from determining that the resource may be an historical resource as defined in Public Resources Code section 5020.1(j) or 5024.1.

California Health and Safety Code Sections 7050.5, 7051, And 7054

These sections collectively address the illegality of interference with human burial remains, as well as the disposition of Native American burials in archaeological sites. The law protects such remains from disturbance, vandalism, or inadvertent destruction, and establishes procedures to be

implemented if Native American skeletal remains are discovered during construction of a project, including the treatment of remains prior to, during, and after evaluation, and reburial procedures.

California Public Resources Code Section 15064.5(e)

This law addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction. The section establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project and establishes the Native American Heritage Commission as the entity responsible to resolve disputes regarding the disposition of such remains.

Assembly Bill 52

Assembly Bill (AB) 52 establishes a formal consultation process for California tribes as part of CEQA and equates significant impacts on tribal cultural resources with significant environmental impacts. AB 52 defines a "California Native American Tribe" as a Native American tribe located in California that is on the contact list maintained by the Native American Heritage Commission. AB 52 requires formal consultation with California Native American Tribes prior to determining the level of environmental document if a tribe has requested to be informed by the lead agency of proposed projects. AB 52 also requires that consultation address project mitigation measures for significant effects, if requested by the California Native American Tribe, and that consultation be concluded when either the parties agree to measures to mitigate or avoid a significant effect, or the agency concludes that mutual agreement cannot be reached. Under AB 52, such measures shall be recommended for inclusion in the environmental document and adopted mitigation monitoring program if determined to avoid or lessen a significant impact on a tribal cultural resource.

CULTURAL SETTING

Archeology

The Central Valley region was among the first in the state to attract intensive fieldwork, and research has continued to the present day. This has resulted in a substantial accumulation of data, but the emphasis has been in the northern portion of the valley. In the early decades of the 1900s, E.J. Dawson explored numerous sites near Stockton and Lodi, later collaborating with W.E. Schenck (Schenck and Dawson 1929). By 1933, the focus of work was directed to the Cosumnes locality, where survey and excavation were conducted by the Sacramento Junior College (Lillard and Purves 1936). Excavation data, in particular from the stratified Windmiller site (CA-SAC-107), suggested two temporally distinct cultural traditions.

Later work at other mounds by Sacramento Junior College and the University of California, Berkeley, enabled the investigators to identify a third cultural tradition, intermediate between the previously postulated Early and Late Horizons. The three-horizon sequence, based on discrete changes in ornamental artifacts and mortuary practices, as well as on observed differences in soils within sites (Lillard, Heizer and Fenenga 1939), was later refined by Beardsley (1954). An expanded definition of artifacts diagnostic of each period was then developed, and its application extended to parts of the central California coast. Traits held in common allow the application of this system within certain limits of time and space to other areas of prehistoric central California.

In the southern San Joaquin Valley, with the exception of Hewes's excavation at CA-FRE-48 (the Tranquility Site), the foci of early investigations have been the old shorelines of the interior lakes: Tulare, Kern, and Buena Vista. In 1899, Dr. P. M. Jones directed fieldwork in the Buena Vista-Tulare Lake area of Kern County. Jones investigated 150 mounds and conducted trenching of several sites including CA-KER-53. In 1909, N. C. Nelson investigated prehistoric Site CA-KER-49, which is located to the west of Buena Vista Lake. Later, four surveys and excavations were conducted in the same locale under the auspices of the University of California. A compilation of these investigation results was published in 1926 by Gifford and Schenck.

As a result of this early work, an elaborate culture complex was defined for the late prehistoric period. This complex can be ascribed probably to the Yokuts and their direct ancestors. The material culture of this late temporal period complex included steatite vessels and beads, finely-made projectile points, pottery, shaped stone mortars, *Tivela* disc beads, use of asphaltum, and the presence of metates and manos. Flexed burials were the predominant interment mode. Earlier complexes underlying the late cultural expressions were represented by chipped stone crescents, large projectile points, atlatl spurs, and weights. Mortuary practices, generally thought to be related, include extended rather than flexed burial position, a situation analogous to that of the northern valley (Gifford and Schenck 1926; Lillard, Heizer, and Fenenga 1939; Moratto 1972).

Presence of "Early Man," although not found in direct association with extinct animals, is demonstrated by the frequency of chipped stone crescents and fluted points similar to those of the Clovis-Folsom Complex in the American Southwest. Although fluted points have been found near the shores of Tulare Lake, an area that has also produced surface finds of extinct mammal bone of Pleistocene age, the association is not substantiated by controlled excavations and remains speculative (Riddell and Olsen 1969). Most of the point collection had been acquired by D. Witt over a period of 30 years.

Under the direction of Wedel (1941), the Civil Works Administration, in conjunction with the Smithsonian Institution, initiated the first major excavations using stratigraphic controls. Investigations of CA-KER-39 and CA-KER-60 as well as several smaller sites near Buena Vista Lake produced evidence of two distinct cultural entities or occupation periods. Wedel lacked

methods for dating these two entities by cross-comparison of the assemblages, he tentatively stated that the early occupation at Buena Vista Lake appeared to be temporally older and less developed than the Early Horizon (Windmiller Pattern) of the Delta region. He compared this early component to the Oak Grove or Milling Stone culture of the Santa Barbara area (Rogers 1939). He divided the later cultural entity into two distinct phases, both clearly distinguished from the earlier cultural phase by artifact types. Wedel (1941:144-145) estimated that neither of these cultural periods exceeded 1500 B.P. (years Before the Present). Later, other investigators proposed far earlier ages for these early occupations, with dates ranging from 2000 to 7000 B.P. (Baumhoff and Olmstead 1963, 1964; Heizer 1964; Meighan 1959).

Later investigations in 1963 and 1964 at CA-KER-116 near Buena Vista Lake produced materials similar to Wedel's early occupation. These materials occurred in the lower levels of the "upper deposit," while an even deeper cultural deposit yielded materials similar to those of the San Dieguito Complex. Artifacts included a chipped stone crescent, crude point fragments, and an atlatl spur. Radiocarbon age determinations on shell from the lowest cultural levels returned a date of circa 8200 B.P. (Fredrickson and Grossman 1966, 1977; Fredrickson 1967).

Despite the previously mentioned investigations, the prehistory of the southern San Joaquin remains as yet poorly understood, without a tightly defined chronological sequence of cultural development.

Ethnology

Ethnographic literature is often uncertain in definition of cultural boundaries for Indian groups. Early displacement by white intrusion resulted in population shifts to avoid conflict with the Spanish, and later with the miners and settlers. The ravages of disease and warfare decimated the native people, further weakening cultural identity. Informants were often uncertain of original territories of the various tribal groupings.

The Yokuts were members of the Penutian language family which held lands of the Central Valley, San Francisco Bay Area, and the Pacific Coast from Marin County to near Point Sur. The Yokuts differed from other ethnographic groups in California as they had true tribal divisions with group names (Kroeber 1925). Each tribe spoke a particular dialect, common to its members, but similar enough to other Yokuts that they were mutually intelligible (Kroeber 1925).

Trade was well-developed, with mutually beneficial interchange of needed or desired goods. Obsidian, rare in the San Joaquin Valley, was obtained by trade with Paiute and Shoshoni groups on the eastern side of the Sierra Nevada, where numerous sources of this material are located, and to some extent from the Napa Valley to the north. Shell beads, obtained by the Yokuts from coastal

people, and acorns, rare in the Great Basin, were among many items exported to the east by Yokuts traders (Davis 1961).

Economic subsistence was based on the acorn, with substantial dependency on gathering and processing of wild seeds and other vegetable foods. The rivers, streams, and sloughs which formed a maze within the valley provided abundant food resources such as fish, shellfish, and turtles. Game, wild fowl, and small mammals were trapped and hunted to provide protein augmentation of the diet.

In general, the eastern portion of the San Joaquin Valley provided a lush environment of varied food resources, with the estimated large population centers reflecting this abundance (Cook 1955; Baumhoff 1963).

The project area lies close to the line used by ethnographers to identify the divide between Northern Valley Yokuts and Southern Valley Yokuts, more likely to be in the northern part of Southern Valley Yokuts territory. Settlements were oriented along the water ways, with their village sites normally placed adjacent to these features for their nearby water and food resources. House structures varied in size and shape (Latta 1949; Kroeber 1925). The housepit depressions ranged in diameter from between 3 to 18 meters.

Latta (1949:99) reported that a village of 200 to 300 Yokuts might have four or five large houses that were used for ten or twelve years or until a family member died, at which time the Indians burned the house in which the death had occurred. If a sick or aged person died outside the dwelling, the family did not burn the house. When a Northern Yokuts died, his body was cremated or buried in a flexed position. Southern tribes normally buried their dead, although they did cremate shamans, persons who died away from their village and, among the Tachi, persons of great importance.

The Yokuts experienced severe depopulation after contact with the Spanish and subsequent explores. The most devastating impacts of the Spanish colonization effort were not the result of military conflicts, but came from Old World diseases newly introduced to the native people.

Historical Context

Early Explorations

The early recorded inhabitants of the region were members of the Yokuts tribe. Although the Spanish missions were established closer to the Pacific coast between 1769 and 1817, the general project area was first visited in the early 1800s by Spanish explorers, who visited the San Joaquin Valley with three goals: to search for runaway neophytes from the missions in the coastal regions,

to punish the Indian raiders, and to select sites for new missions. In 1806, a group led by Gabriel Moraga and Father Pedro Muñoz, left Mission San Juan Bautista heading north to about the Mokelumne River**.** They then turned south, and travelled along the edge of the mountains crossing the San Joaquin River and passing through Tejon Pass, arriving at Mission San Fernando. In 1815, José Dolores Pico marched an expedition group from Monterey into the region. Following the San Joaquin River, he passed through the area in search of runaways, traveling as far south as the Kern River. The expedition returned to the starting point in Monterey with nine prisoners and a number of horses.

After control of California passed from Spain to Mexico in 1822, Mexican explorations into the interior continued, with José Dolores Pico conducting a major expedition along the San Joaquin River in 1825-1826. This expedition was considered successful in that some neophytes were captured, hostile Indians killed, some of the tribal groups intimidated, and some stolen horses recovered.

In 1828, Sebastián Rodríguez led a similar expedition into the same region. His expedition captured a number of neophytes as well as some of the stolen horses, an item that had become an important dietary staple for the Indian tribes in the San Joaquin Valley region (Beck and Haase 1974).

The expeditions did not leave physical evidence, but there were definitely major affects to the Native American populations. Causing even more of an effect on the native population were the diseases brought in to the Native populations of the Central Valley in the early 1830s.

Ranchos

In Fresno County, there was only one early land grant, a rancho along the current southern border of the county: Laguna de Tache. The era of the Spanish and Mexican land grants did not directly affect the APE.

Fresno Region History

The lands of the project region were recognized early in time for their agricultural value. Early land use included grazing and dry lands crops such as grains. Over time, a system of ditches was constructed to bring a reliable source of water to much more of the county, allowing the planting of orchards and vineyards, as well as the cultivation of a wider variety of crops. In addition, transportation for the farm products to wider markets was aided by the addition of railroad systems in the region (Kyle 2002).

Clovis

The extension of the railroad system throughout the San Joaquin Valley allowed the increased expansion of a market for the agricultural production of the region. A branch line of the Southern Pacific Railroad (first known as the Pollasky Railroad or the San Joaquin Railroad) was built through this region circa 1891. Marcus Pollasky served as the promoter, and monies were raised locally for the construction costs. Clovis Cole, the owner of a large wheat ranch, donated land for the route, and a station was established here on the line and named Clovis (Gudde 1969; City of Clovis 1962).

After the completion of the railroad, the construction of the flume from Shaver Lake to the east was soon completed by the Fresno Flume and Irrigation Company. The 45-mile-long flume could deliver 200,000 board feet of lumber through the V-shaped watercourse in a 24-hour period. At the end of the flume, there was a finishing and distributing plant. Other, better grade lumber was delivered to Clovis down Tollhouse Grade, hauled by ox and horse teams. In the early years, 140 men were employed by the lumber company, with an annual payroll of $450,000.

The Clovis lumber plant occupied a 40-acre site. The factory, warehouse, a planing mill, and engine house all burned to the ground in 1898, but were soon rebuilt. As many as 400 men were employed by the company. The mill was located on the south side of Fifth Street (City of Clovis 1962; Clovis Centennial Book Committee 2011).

The mill in Clovis produced "ordinary lines of lumber," shakes, trays, sweat boxes, raisin boxes, orange boxes, cedar posts, ties, poles, and pine and oak cordwood (*Fresno Republican* 1897: 96). The ever-increasing agricultural use of the San Joaquin Valley, due to improvements and expansion of irrigation systems, led to a large market for the fruit packing boxes, allowing shipment of the produce to a wider marketplace.

Clovis was laid out by a licensed surveyor, working for the co-owners of the land: Clovis Cole, Clarence Pallos, and George Owen. Early homes were utilitarian, and the streets were ungraded (City of Clovis 1962).

The town's population expanded rapidly from about 500 residents in 1905 to about 1,000 in 1910. Nearby, the population was increasing within the local rural agricultural colonies, with large acreages broken up into 20-acre tracts advertised for sale to Midwesterners. By 1919, local population had grown to 1,500. At this point, the lumber business is still the main support of the economy, but the area produced huge crops of Malaga grapes and figs (Clovis Centennial Book Committee 2011; Vandor 1919:269)

For the first 21 years, there was no organized government in Clovis. Late in 1911, an election was held, and the city incorporated in 1912. Most of the early businesses in town were located on Front Street, now known as Clovis Avenue, on the west side of the tracks (City of Clovis 1962).

RESEARCH

A record search was conducted for the APE and a 0.25-mile radius at the Southern San Joaquin Valley Archaeological Information Center of the California Historical Resources Information System on May 13, 2024 (RS#24-207, Appendix 2). No sites have been recorded in the project area. The Enterprise Canal (P-10-005934) is located within the project area buffer radius. Two reports cover studies in portions of the project area, and one covers a portion of the search radius buffer.

FIELD ASSESSMENT

Mike Lawson (resume, Appendix 1) completed the field survey of the project area on June 15, 2024 with complete coverage.

The survey area consists of several agricultural fields in a rectangular shape with a single-family home and outbuildings near the center accessed by Behymer Avenue. Only the front or street view of the residence is visible due to a privacy screen surrounding the building complex.

All connecting agricultural plots are flat, likely leveled, with raised dirt access roads between and around them. Wire fencing protects the field edges along the avenue, but the remaining boundaries are open. Irrigation equipment typical for orchards and seed planting is in place throughout the survey area.

Soil is uniformly a medium-brown silty loam throughout all the growing blocs with a very slight difference in shade due to varying moisture levels. Cobble and pebble fraction is light to moderate with components being granitic, sandstone, and meta volcanic. No bedrock outcrops or boulders were observed.

Typical native and introduced plants and trees along the fields were observed including valley oak, Russian thistle, datura, goats-head, wild radish, and brome. Orchard trees appeared to be almond. Other fields were fallow at time of survey.

Due to low sensitivity for cultural resources, parallel transects of no more than 10 meters apart were walked to obtain complete coverage. The survey routes followed furrows in dirt fields, dirt roadways and open spaces between orchard trees. At time of survey ground visibility was very good due to farming activities.

The residence was difficult to observe from the roadside, but it is clearly quite recent in construction date with recent alterations such as, replacement doors, vinyl framed windows, and recent composition roof. The building was field recorded, and a site record prepared (Appendix 3).

No other prehistoric or historical artifacts, features or other remains were observed within the survey area.

SITE DESCRIPTION/EVALUATION

This is a ranch style house constructed in 1963, per County Assessor, that is more complex in plan than most houses of that style and era. This is basically a cross gabled version of the ranch style, the type found in about 40% of ranch houses (McAlester 2015:598) but this has two front-facing cross gables, much less common, and one of these has what amounts to a full width dormer on top of the cross gable in the form of another low gabled roof that does not extend to the end of the main roof. The rear of the building is also unusual in that there are several extensions, one being an extension of the main roof at a lower pitch to cover a large back patio. About 140 feet south of the residence are two modern utility buildings: a flat roofed equipment shelter, and a small barn.

Windows are primarily vinyl framed sliders but there is a picture window on the front (northern) elevation facing Behymer Avenue. Siding is vertical plank over a faux rock course. The eaves are closed and the roof is a composite that appears relatively recent.

In all, this is a variation on the ranch house that lacks many of the most characteristic elements of the style. In particular, the essential simplicity characteristic of the early ranch houses of this era is lost in the complex roof treatment. Later ranch houses of the 1970s and early 1980s are often more elaborate. This example, however, is not in any recognized subtype of the basic ranch form.

This building is not eligible for the California Register of Historical Resources, lacking association with important events or people in history, as well as no architectural distinction.

RECOMMENDATIONS

Although no prehistoric sites were found during the survey, there is a slight possibility that a site may exist and be totally obscured by vegetation, fill, or other historic activities, leaving no surface evidence. Should artifacts or unusual amounts of stone, bone, or shell be uncovered during construction activities, an archeologist should be consulted for on-the-spot evaluation of the finding. If the bone appears to be human, state law requires that the Fresno County Coroner be contacted. If

the Coroner determines that the bone is human and is most likely Native American in origin, he must contact the Native American Heritage Commission (916-322-7791).

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APPENDIX 1

Resumes

PEAK & ASSOCIATES, INC.
RESUME

MELINDA A. PEAK **January 2024**
Senior Historian/Archeologist
3941 Park Drive, Suite 20 #329
El Dorado Hills, CA 95762
(916) 939-2405

PROFESSIONAL EXPERIENCE

Ms. Peak has served as the principal investigator on a wide range of prehistoric and historic excavations throughout California. She has directed laboratory analyses of archeological materials, including the historic period. She has also conducted a wide variety of cultural resource assessments in California, including documentary research, field survey, Native American coordination, and report preparation.

In addition, Ms. Peak has developed a second field of expertise in applied history, specializing in site-specific research for historic period resources. She has completed many historical research projects for a wide variety of site types.

Through her education and experience, Ms. Peak meets the Secretary of Interior Standards for historian, architectural historian, prehistoric archeologist, and historic archeologist.

EDUCATION

M.A. - History - California State University, Sacramento, 1989
Thesis: *The Bellevue Mine: A Historical Resources Management Site Study in Plumas and Sierra Counties, California*
B.A. - Anthropology - University of California, Berkeley

PROJECTS

In recent months, Ms. Peak has completed several determinations of eligibility and effect documents in coordination with the Corps of Engineers for projects requiring federal permits, assessing the eligibility of many sites for the National Register of Historic Places.

She has also completed historical research projects on a wide variety of topics for many California projects including the development of navigation and landings on the Napa River, wineries, farmhouses dating to the 1860s, bridges, an early roadhouse, Folsom Dam, and a section of an electric railway line.

In recent years, Ms. Peak has prepared numbers of cultural resource overviews and predictive models for blocks of land proposed for future development for general and specific plans. She has been able to direct many surveys of these areas, allowing the model to be tested.

She served as principal investigator for the multi-phase Twelve Bridges Golf Club project in Placer County. She served as liaison with the various agencies, helped prepare the historic properties treatment plan, managed the various phases of test and data recovery excavations, and completed the final report on the analysis of the test phase excavations of many prehistoric sites. She is currently involved as the principal investigator for the Teichert Quarry project adjacent to Twelve Bridges in the City of Rocklin, coordinating contacts with Native Americans, the Army Corps of Engineers, and the Office of Historic Preservation.

Ms. Peak has served as project manager for many major survey and excavation projects in recent years, including the many surveys and site definition excavations for the 172-mile-long Pacific Pipeline proposed for construction in Santa Barbara, Ventura, and Los Angeles counties. She also completed an archival study in the City of Los Angeles for the project. She also served as principal investigator for a major coaxial cable removal project for AT&T.

Additionally, she has completed hundreds of small surveys, served as a construction monitor at several urban sites, and conducted emergency recovery excavations for sites found during monitoring. She has directed the excavations of several historic complexes in Sacramento, Placer, and El Dorado Counties.

Ms. Peak is the author of a chapter and two sections of a published history (1999) of Sacramento County, *Sacramento: Gold Rush Legacy, Metropolitan Legacy*. She served as the consultant for a children's book on California, published by Capstone Press in 2003 in the Land of Liberty series.

PEAK & ASSOCIATES, INC.
RESUME

MICHAEL LAWSON **January 2024**
Archeological Field Director
3941 Park Drive, Suite 20-329
El Dorado Hills, CA 95672
(916) 939-2405

PROFESSIONAL EXPERIENCE

Mr. Lawson has compiled an excellent record of undertaking excavation and survey projects for both the public and private sectors over the past thirty years. He has conducted many surveys throughout northern California, central California, and Hawaii, as well as serving as an archeological technician, site monitor, crew chief and field director for a number of excavation projects.

Mr. Lawson is qualified by the Bureau of Land Management as a field director for archeological surveys and excavations. In 2022, he led teams as the field director on several field surveys in the Sierras for the proposed undergrounding of PG&E transmission lines, dealing with both historic and prehistoric cultural resources. Lawson works for several firms based in the Sacramento Area and Bay Area.

EDUCATION

B.A. - Anthropology - California State University, Sacramento

Special Course: Comparative Osteology. University of Tennessee, Knoxville. Forensic Anthropology Center. January 2018.

The special course included: intensive lab and outdoor study with human example from outdoor research facility, including typical and non-metric examples, compared with the fifty non-human species most confused with human remains. Work at the outdoor research facility "The Body Farm" study included survey, photography, collection, and identification of faunal and human bone fragments, with a Power Point presentation discussing finds.

EXPERIENCE

- Extensive monitoring of open space, streets and project development areas for prehistoric period and historic period resources. Areas monitored include Sutter Street in Folsom; Mud Creek Archeological District in Chico; Camp Roberts, San Luis Obispo County; Avila Beach, San Luis Obispo County; Edgewood Golf Course, South Lake Tahoe; Davis Water Project, Davis; Star Bend levee section, Sutter County; Feather River levees, Sutter County; Bodega

Bay, Sonoma County; San Jose BART line extension, Santa Clara County; and numerous sites for PG&E in San Francisco.

- Over thirty years of experience working in cultural resource management, volunteer, and academic settings in California historic, proto-historic, and prehistoric archaeology.

- Expertise in pedestrian survey, excavation, feature (including burial) exposure, laboratory techniques, research. Field positions include field director, assistant field director, crew chief and lead technician.

APPENDIX 2

SSJVIC Records Search

California Historical Resources Information System

Fresno
Kern
Kings
Madera
Tulare

Southern San Joaquin Valley Information Center
California State University, Bakersfield
Mail Stop: 72 DOB
9001 Stockdale Highway
Bakersfield, California 93311-1022
(661) 654-2289
E-mail: ssjvic@csub.edu
Website: www.csub.edu/ssjvic

5/13/2024

Robert Gerry
Peak & Associates, Inc.
3941 Park Drive, Suite 30-329
El Dorado Hills, CA 95762

Re: Behmer Industrial
Records Search File No.: 24-207

The Southern San Joaquin Valley Information Center received your record search request for the project area referenced above, located on Friant USGS 7.5' quad. The following reflects the results of the records search for the project area and the 0.25 mile radius:

As indicated on the data request form, the locations of resources and reports are provided in the following format: ☒ custom GIS maps ☐ GIS data

Resources within project area:	None
Resources within 0.25 mile radius:	P-10-005934
Reports within project area:	FR-00074, 02289
Reports within 0.25 mile radius:	FR-01219

Resource Database Printout (list):	☒ enclosed	☐ not requested	☐ nothing listed
Resource Database Printout (details):	☐ enclosed	☒ not requested	☐ nothing listed
Resource Digital Database Records:	☐ enclosed	☒ not requested	☐ nothing listed
Report Database Printout (list):	☒ enclosed	☐ not requested	☐ nothing listed
Report Database Printout (details):	☐ enclosed	☒ not requested	☐ nothing listed
Report Digital Database Records:	☐ enclosed	☒ not requested	☐ nothing listed
Resource Record Copies:	☒ enclosed	☐ not requested	☐ nothing listed
Report Copies:	☒ enclosed	☐ not requested	☐ nothing listed
OHP Built Environment Resources Directory:	☒ enclosed	☐ not requested	☐ nothing listed
Archaeological Determinations of Eligibility:	☐ enclosed	☐ not requested	☒ nothing listed
CA Inventory of Historic Resources (1976):	☐ enclosed	☒ not requested	☐ nothing listed

Caltrans Bridge Survey: Not available at SSJVIC; please see https://dot.ca.gov/programs/environmental-analysis/cultural-studies/california-historical-bridges-tunnels

Ethnographic Information: Not available at SSJVIC

Historical Literature: Not available at SSJVIC

Historical Maps: Not available at SSJVIC; please see http://historicalmaps.arcgis.com/usgs/

Local Inventories: Not available at SSJVIC

GLO and/or Rancho Plat Maps: Not available at SSJVIC; please see http://www.glorecords.blm.gov/search/default.aspx#searchTabIndex=0&searchByTypeIndex=1 and/or http://www.oac.cdlib.org/view?docId=hb8489p15p;developer=local;style=oac4;doc.view=items

Shipwreck Inventory: Not available at SSJVIC; please see https://www.slc.ca.gov/shipwrecks/

Soil Survey Maps: Not available at SSJVIC; please see http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

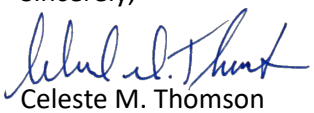
The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Invoices for Information Center services will be sent under separate cover from the California State University, Bakersfield Accounting Office.

Thank you for using the California Historical Resources Information System (CHRIS).

Sincerely,

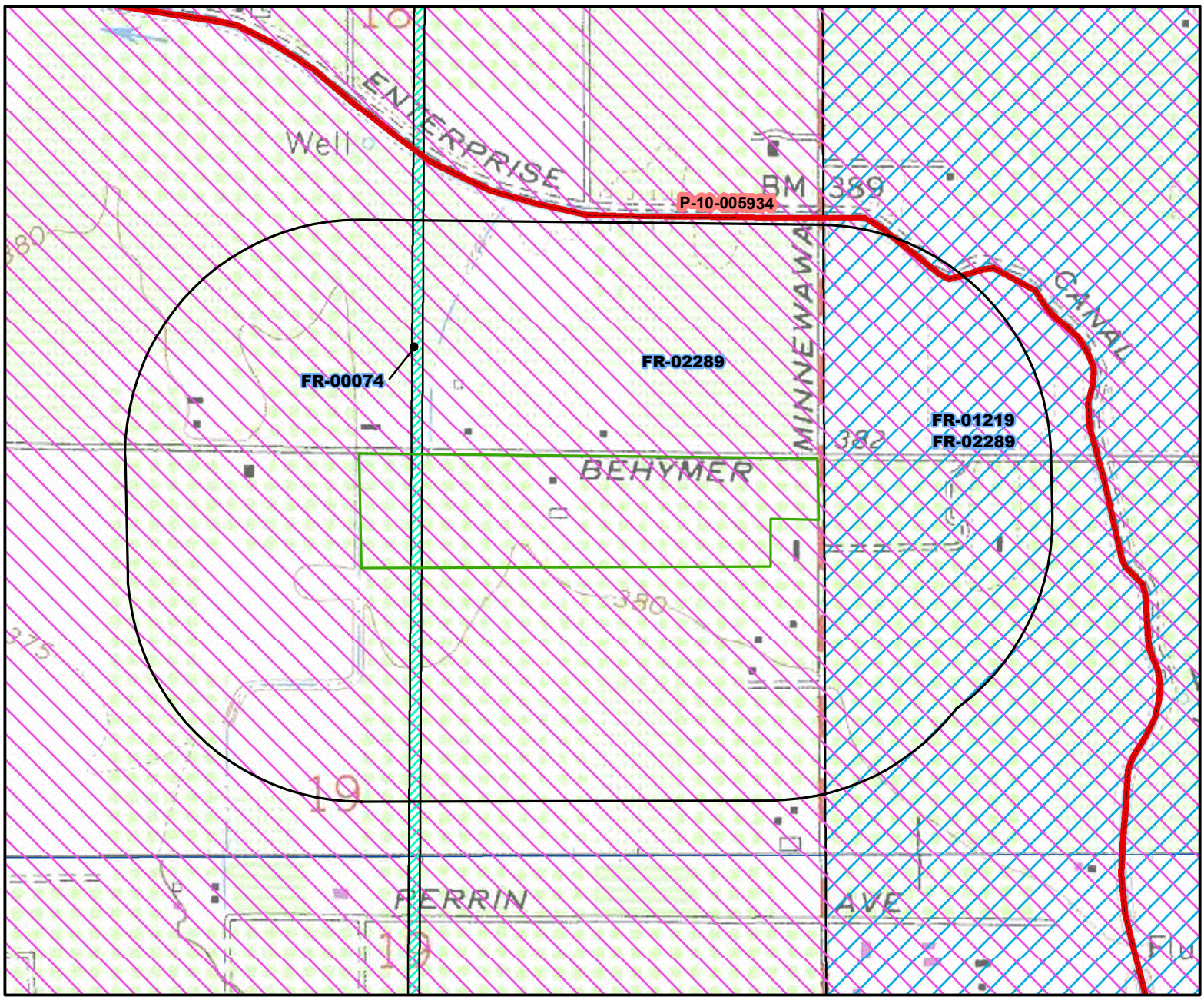


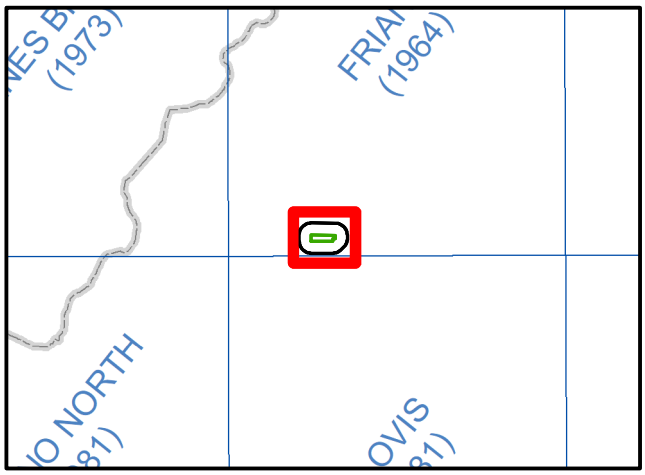
Celeste M. Thomson
Coordinator

California Historical Resources Information System

Fresno
Kern
Kings
Madera
Tulare

Southern San Joaquin Valley Information Center
California State University, Bakersfield
Mail Stop: 72 DOB
9001 Stockdale Highway
Bakersfield, California 93311-1022
(661) 654-2289
E-mail: ssjvic@csub.edu
Website: www.csub.edu/ssjvic





May depict confidential cultural resource locations. Do not distribute.
Map pages depicting no data have been excluded.

Project Area
Record Search radius

N
W E
S

0 0.05 0.1 0.2 Miles
0 0.05 0.1 0.2 Kilometers

SSJV Information Center Record Search 24-206
Requester: Robert Gerry, Peak & Associates, Inc.
Project Name: Behmer Industrial
USGS 7.5' Quad(s): Clovis, Friant
County: Fresno

Resource List

SSJVIC Record Search 24-207

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-10-005934	CA-FRE-003564H	Resource Name - Enterprise Canal; OTIS Resource Number - 534499; OHP Property Number - 163775	Structure	Historic	HP20	2007 (R. Baloian, Applied EarthWorks, Inc.); 2013 (Randy Baloian, Applied EarthWorks, Inc.); 2017 (Ward Stanley and Randy Baloian, Applied EarthWorks, Inc.)	FR-02615, FR-02919, FR-03067

Report List

SSJVIC Record Search 24-207

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
FR-00074	NADB-R - 1141287	1978	Baker, Suzanne	Archaeological Reconnaissance of the Shepherd 230kV Substation and Transmission Line	Archaeological Consultants	
FR-01219		1993	Bissonnette, Linda Dick	Fresno Metropolitan Flood Control District Drainage Area "BY" Facilities	Cultural Resources Consulting	
FR-02289		2006	Nettles, Wendy M. and Baloian, Randy	Cultural Resources Reconnaissance Survey of the City of Clovis Northwest Urban Center Specific Plan Area, Fresno County, California	Applied EarthWorks, Inc.	10-006109

APPENDIX 3

DPR Site Record

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings Review Code	Reviewer	Date

Page 1 **of** 3 ***Resource Name or #:** 3731 E. Behymer Avenue

P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ■ **Unrestricted** ***a. County:** Fresno

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** Friant **Date:** 1964 **T** 12S; **R21E** NW¼ **of** NE¼ **of Sec 19;** M.D. **B.M.**

c. Address: 3731 E. Behymer Avenue City: Clovis Zip: 93619

d. UTM: NAD27 Zone: 10; 07 92 774 mE/ 40 86 506 mN (G.P.S.)

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) Elevation:
APN 556-010-29

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

This is a ranch style house constructed in 1963, per County Assessor, that is more complex in plan than most houses of that style and era. This is basically a cross gabled version of the ranch style, the type found in about 40% of ranch houses (McAlester 2015:598) but this has two front-facing cross gables, much less common, and one of these has what amounts to a full width dormer on top of the cross gable in the form of another low gabled roof that does not extend to the end of the main roof. The rear of the building is also unusual in that there are several extensions, one being an extension of the main roof at a lower pitch to cover a large back patio. About 140 feet south of the residence are two modern utility buildings: a flat roofed equipment shelter and a small barn.

Windows are primarily vinyl framed sliders but there is a picture window on the front (northern) elevation facing Behymer Avenue. Siding is vertical plank over a faux rock course. The eaves are closed and the roof is a composit tnat appears relatively recent.

In all, this is a variation on the ranch house that lacks a number of the most characteristic elements of the style. In particular, the essential simplicity characteristic of the early ranch houses of this era is lost in the complex roof treatment. Later ranch houses of the 1970s and early 1980s are often more elaborate. This example, however, is not in any recognized subtype of the basic ranch form.

***P3b. Resource Attributes:** (List attributes and codes) HP2 – Single Family Property

***P4. Resources Present:** ■Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)

P5b. Description of Photo: (View, date, accession #) Front of house from Behymer Avenue looking south. 5/15/2024

***P6. Date Constructed/Age and Sources:** ■Historic ☐Prehistoric ☐Both
1063 per County Assessor

***P7. Owner and Address:**
On site

***P8. Recorded by:** (Name, affiliation, and address)
Mike Lawson, Robert Gerry
Peak & Associates, Inc.
3941 Park Drive, Ste 20-329
El Dorado Hills, CA 95762

***P9. Date Recorded:** 5/15/3034

***P10. Survey Type:** (Describe)
Full coverage pedestrian survey prior to proposed development

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") Cultural Resources Assessment of the De Young Property, Clovis, Fresno County, California. Peak & Associates, Inc. 2024

.***Attachments:** ☐NONE ■Location Map ■Sketch Map ☐Continuation Sheet ☐Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

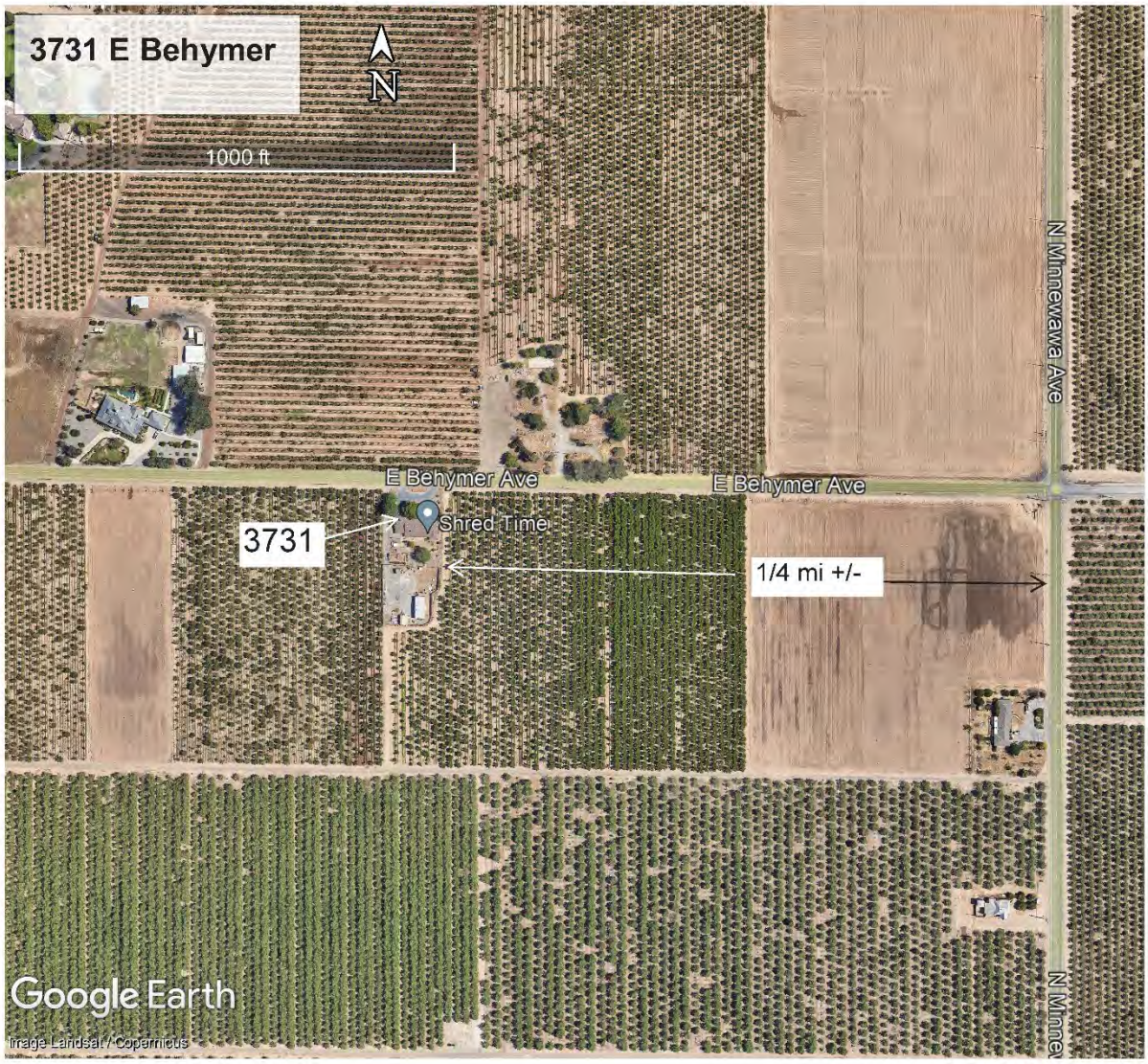
State of California ◆ Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

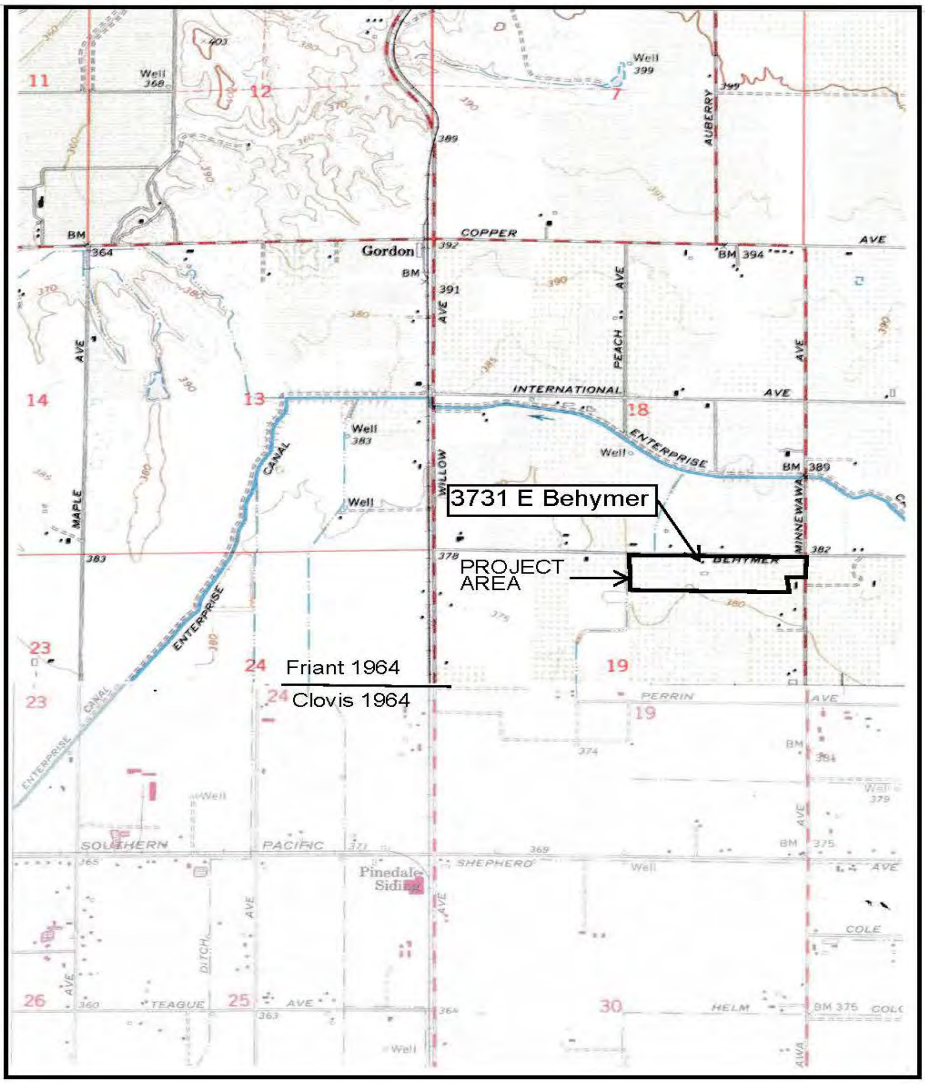
SKETCH MAP

Primary #
HRI#
Trinomial

Page 2 **of** 3 ***Resource Name or #** (Assigned by recorder) 3731 E Behymer Avenue

***Drawn by:** Google Earth and Gerry ***Date of map:** 1/20/2024





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PROVOST&PRITCHARD
CONSULTING GROUP

455 W Fir Ave • Clovis, CA 93611 • (559) 449-2700
www.provostandpritchard.com

MEMORANDUM

To:	Christopher Kelly, City of Clovis
From:	Heather Bashian, PE
Date:	October 24, 2024
Subject:	Water Infrastructure Investigation for a Single-Family Residential Development at the southeast corner of Peach and Behymer Avenues (DRC 2023-045 or Tentative Tract Map 6482)

Provost and Pritchard Consulting Group has prepared this technical memorandum summarizing the findings of our investigation into the water system infrastructure required to serve a proposed development located at the northeast corner of Peach and Behymer Avenues (APNs 556-010-28 and 29).

PROJECT INFORMATION

The Project covers an area of approximately 36.9 gross acres within the Northwest Village planning area. The entire Project is within the Kings River service area for FID, which means the Project has access to water from the Kings River as its source of supply. The existing project site consists of residences and residential outbuildings, and agriculture uses. The proposed use will consist of approximately 266 single family residential units, equating to 7.2 units per acre, consistent with the land use designation of medium high density residential, consistent with the planned land use for the area.

The project straddles the pressure zone (PZ) boundary (Zone 1 and Zone 2) of the water system and the understanding is the City does not want to create an interconnection between the pressure zones within a residential development (i.e., not on a major road/intersection). For this reason, the evaluation of the Project has been prepared to determine what master planned, or additional, water infrastructure would be necessary for this Project to proceed. To accomplish this, the infrastructure conditioned on other preceding projects in the area has been documented and, qualitatively, the necessary infrastructure to serve this Project has been evaluated. This evaluation was not completed with a hydraulic model, at the direction of City staff.

ASSUMPTIONS

Below is a list of assumptions that will be made for this investigation:

- Proposed developments will comply with the City's two points of connection requirement.
- Master planned facilities near the Project are existing, unless otherwise specifically noted.
- The developer is responsible for sizing all water mains and other water related infrastructure internal to the Project.
- Water system demands will be based on unit demand from the City of Clovis Water Master Plan Update, Phase III (Provost & Pritchard, 2018).
- The first phase of water storage tank T-9 or T-6 (3.5 million gallons of storage in PZ2) will be evaluated for inclusion in the Project.
- Water system improvements associated with Tract maps 6205, 6343, and 6200, and DRC 2023-024 (Behymer & Willow Avenues) will be assumed to be fully built out. Water system improvements associated with Vista Ranch are assumed to not be constructed for purposes of this analysis.

WATER DEMAND

Potable water demands for the Project were estimated using land-use-based unit water demand factors from the WMP. Table 1 summarizes unit demand factors used to estimate demand for typical planning conditions such as annual average, maximum day, and peak hour and the total water usage for each demand category. Water usage for each demand category was estimated by multiplying gross acreage of land use type by its respective unit demand.

Table 1. Summary of Unit Water Demands and Total Water Demands

LAND USE	AREA (AC)	ANNUAL AVERAGE		MAXIMUM DAY		PEAK HOUR	
		AFY/AC	AFY	GPM/AC	GPM	GPM/AC	GPM
Existing/Proposed – Medium-High Density Residential	36.9	3.30	121.8	3.48	128.3	6.14	226.5

Notes:
1. Source for unit water demand values was Table 5-3.1 in WMP.
2. Abbreviations: AFY = Acre-feet per year, gpm = gallons per minute, ac = acre(s)

WATER SUPPLY

Urbanization within Clovis occurs both inside and outside the Kings River service area for FID, therefore not all lands have access to this water source. Lands generally located south and west of the Enterprise Canal are within the Kings River service area and as such are entitled to an average annual allotment of approximately 2.24 acre-feet per acre (AF/ac). Some land uses within the City have unit demands greater than the 2.24 AF/ac supply available. The City adopted an ordinance requiring new development with demands exceeding the allotment to pay fees, so the City can acquire additional water supply to serve the development. Since the entirety of the Project is within the FID service area, water from the Kings River is available to offset a portion of the anticipated annual demand of 19.0 acre-feet. See Table 2 for summary of reconciliation of supply and demand for existing and proposed land use conditions.

Table 2. Summary of Unit Water Demands by Land Use

LAND USE	AVERAGE DAY DEMAND (AFY)	FID ENTITLEMENT (AFY)	ADDITIONAL SUPPLY REQUIRED (AFY)
Existing/Proposed – Medium-High Density Residential	121.8	82.7	(39.1)

INFRASTRUCTURE

This evaluation will discuss infrastructure in three ways:

- Existing infrastructure: this is understood to be constructed and operational as of the date of this memorandum (see **Figure 1**)
- Conditioned infrastructure: this is understood to be planned for construction with another project that preceded this evaluation; it may or may not be constructed and operational when this Project is operational (see **Figure 2**)
- Recommended infrastructure: this is the infrastructure recommended for development in addition to the existing and conditioned infrastructure; if any conditioned infrastructure is not constructed and operational when this Project is operational, additional recommended infrastructure will likely be necessary (see **Figure 2**)

EXISTING INFRASTRUCTURE

There is no existing infrastructure immediately adjacent to the Project. The nearest existing infrastructure is the 12-inch water main in Willow Avenue and the infrastructure associated with Tract Map (TM) 6200, between Shepherd and Perrin Avenues and Clovis and Sunnyside Avenues. Other existing infrastructure in the larger vicinity is shown on Figure 1.

CONDITIONED INFRASTRUCTURE

The following is a list of the major infrastructure, most as shown in the WMP, that has been conditioned on nearby projects (shown with gray highlight in Figure 2) that would impact this Project's ability to have reliable and sufficient water supply access. Some infrastructure is conditioned on multiple projects and is therefore stated more than once.

DRC 2023-024 (WILLOW AND BEHYMER AVENUES)

- P-16 (portion): 12-inch water main in Behymer Avenue, along project frontage
- W-46: City Well near Willow and Behymer Avenues

DRC 2023-030 (CLOVIS AND PERRIN AVENUES)

- P-3/4/5/6: WMP capital improvement projects P-3 and P-4 or P-5 and P-6 must be operational prior to the project being operational to enhance the redundancy in PZ2
- P-35 (portion): 12-inch water main in Minnewawa Avenue, along project frontage
- P-36: 12-inch water main in Clovis Avenue from Baron Avenue to Perrin Avenue (P-36)
- Non-master planned: 12-inch water main in Perrin Avenue from Clovis Avenue to approximately 360 feet west of Clovis Avenue along Project frontage

TRACT 6205

- P-3/4: WMP capital improvement projects P-3 and P-4 must be operational prior to the project being operational to enhance the redundancy in PZ2
- P-39: 24-inch water main in Perrin Road from Sunnyside Avenue to Marion Avenue
- P-40: 24-inch water main in Sunnyside Avenue from Pryor Road to Perrin Road
- Non-master planned: 12-inch water main in Pryor Road that connects through the project from Sunnyside Avenue to Shepherd Avenue

TRACT 6343

- P-18 (portion): 24-inch water main in Behymer Avenue from Baron Avenue, along project frontage
- P-38: 24-inch water main in Baron Avenue from Perin Avenue to Behymer Avenue

TRACT 6375

- P-35 (portion): 12-inch main in Minnewawa Avenue
- P-36 (portion): 12-inch main in Clovis Avenue
- Tank T-6 (portion thereof)

TRACT 6452

- P-38: 24-inch water main in Baron Avenue from Perrin Avenue, along project frontage
- P-39[1] (portion): 24-inch water main in Street A from Marion Avenue to eastern edge of Project (to T-9 site
- P-39[1] (portion): 24-inch in Marion Avenue from Perrin Avenue to Street A
- Tank T-6 (portion thereof)

RECOMMENDED INFRASTRUCTURE

Based on qualitative evaluation of the existing and conditioned infrastructure, the following infrastructure would be recommended for the Project to proceed, assuming the existing and conditioned infrastructure is all operational.

[1] This master planned water main has been realigned from that shown in the WMP and replaces the originally aligned main.

EASTERN PORTION OF DRC 2023-045 – PRESSURE ZONE 2:

- P-16 (portion), P-17 and P-18 (portion): construction of the water main along Behymer Avenue (approximately 1.25 miles) provides two points of connection to the water system (redundancy) and allows the eastern portion of the water system to connect to the main in Behymer in two locations without loss of reliability. (Shown in yellow highlight in Figure 2.)
    - A non-master planned water main (425 feet) in Minnewawa Avenue, along the Project frontage, would be recommended to provide the second point of connection in Behymer Avenue without having an interconnection between the pressure zones.
- Tank T-6: Recent hydraulic analysis for multiple projects in PZ2 have indicated low pressure results in Harlan Ranch, worsened by the inclusion of projects in the Northwest Village, are resolved by construction of Water Storage Tank T-6 at the SWTP.

WESTERN PORTION OF DRC 2023-045 – PRESSURE ZONE 1:

- P-27, P-29, and P-30 (west portion): Construction of this series of water mains (approximately 1 mile) connects the western portion of the Project to the PZ1 main in Willow Avenue, providing one point of connection for the Project to the PZ1 water supply. (Shown in yellow highlight in Figure 2.)
- A second point of connection to provide water supply reliability and redundancy is possible in multiple ways, both of which still rely on P-29, limiting the true redundancy. (The common portions of the two options that follow are shown in solid orange highlight on Figure 2, and the differing portions are shown in dashed orange highlight on Figure 2).
    - P-30 (east portion), P-31, P-32, and P-34: Construction of this series of water mains (approximately 1.5 miles) connects the western portion of the project to the PZ1 water main in Shepherd Avenue.
    - P-30 (east portion), P-33, and P-34 (north portion): Construction of this series of water mains (approximately 0.75 miles) connects the western portion of the project to the PZ2 water main in Minnewawa Avenue.
        - It would introduce a pressure zone interconnection but is considerably less infrastructure to construct.
    - Interconnection at Peach and Behymer: providing a pressure zone interconnection at this intersection provides redundant water supply to the western portion of the Project without introducing a pressure zone interconnection within a subdivision.

SUMMARY

The ability to provide reliable water supply to the project is possible through the construction of multiple master planned water mains and a portion of the T-6 tank, as described above. The City has multiple options to provide two points of water supply to the Project, for both the eastern and western components.

It is recommended the water mains in Behymer (P-16, P-17, and P-18) be constructed to provide water supply to both portions of the Project. The mains in Behymer will provide two points of connection to the eastern portion in PZ1 until such a time as the frontage water main is constructed in Minnewawa; there is some level of risk associated with two points of connection being provided by the same transmission main. The second point of connection for the western portion in PZ1 can be achieved through construction of P-27, P-30 (western portion) and P29; therefore, those mains are also recommended for the Project.

Serving this project should not negatively impact the City's ability to provide supply and delivery of water to reasonably foreseeable users within the City assuming adherence to recommendations from prior water resources planning efforts. However, to understand the cumulative impacts to supplies and other major water infrastructure, the City should be tracking changes in demand as part of the development process in order to determine when projects with greater demand are offset by projects with demands lower than originally planned.

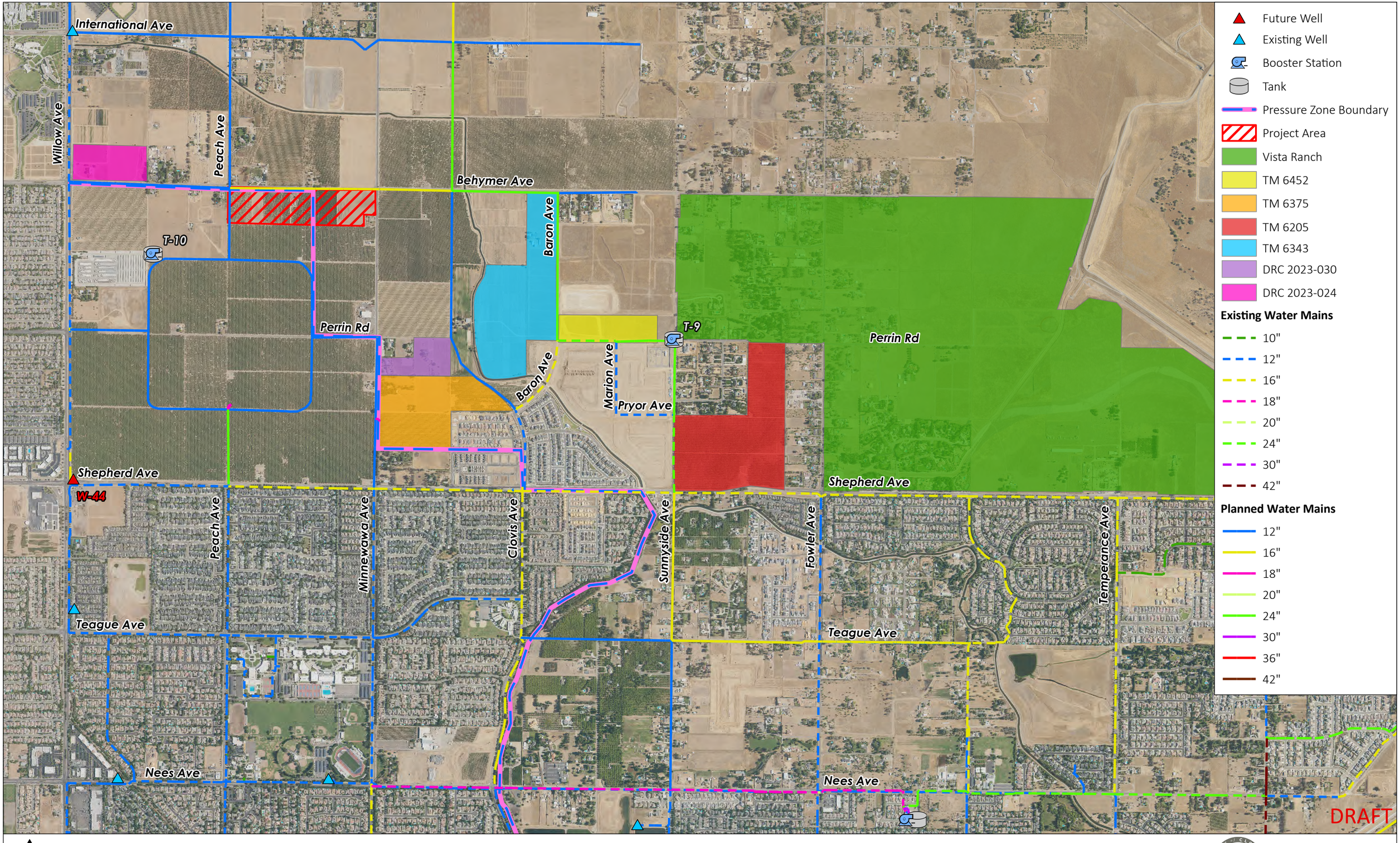

Figure 1: Existing and Planned Infrastructure

DRC 2023-045 / TTM 6482

PROVOST& PRITCHARD

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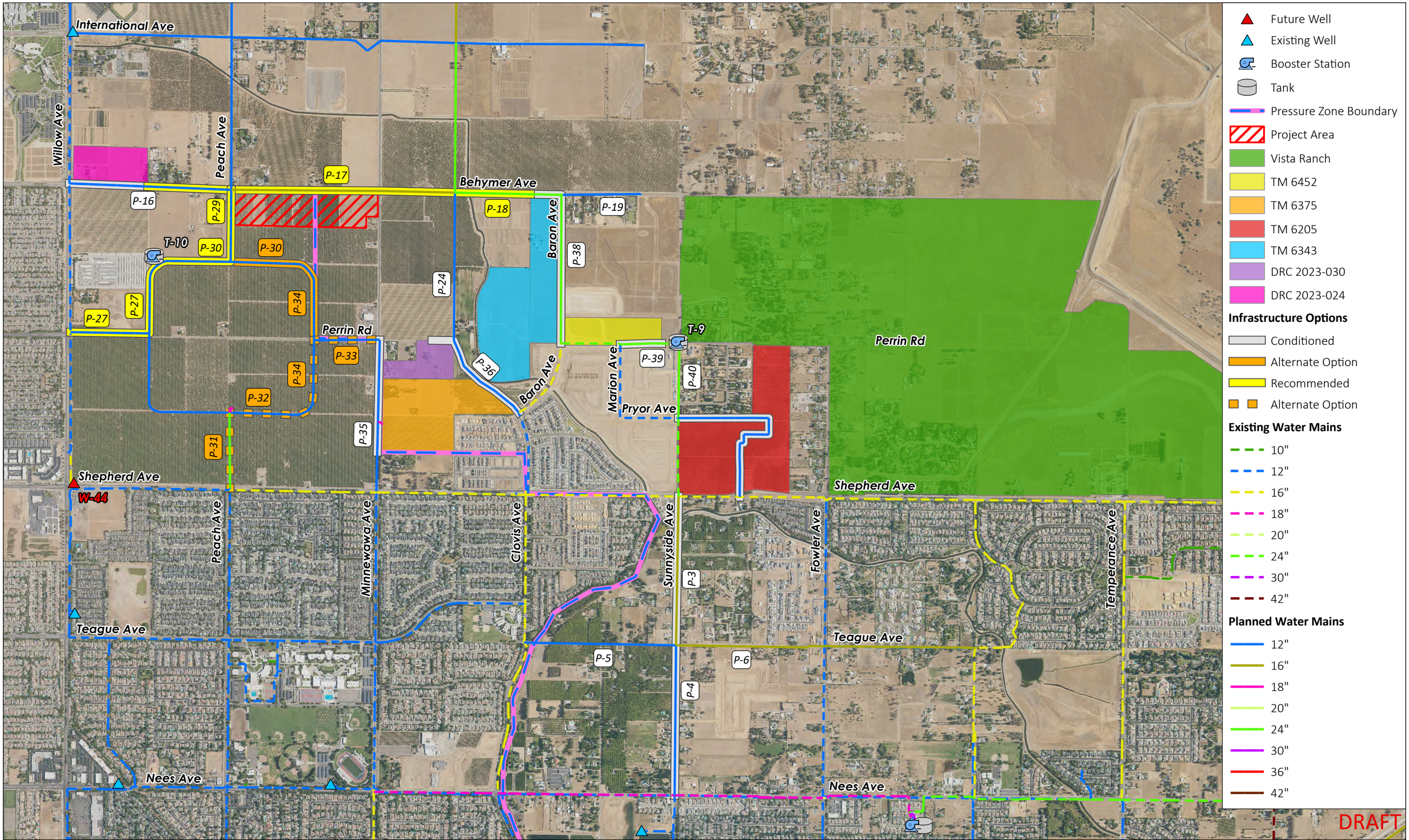

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Figure 2: Infrastructure Recommendations

DRC 2023-045 / TTM 6482

PROVOST& PRITCHARD

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TRANSPORTATION IMPACT ANALYSIS

DE YOUNG PROPERTIES PEACH AND BEHYMER PROJECT

CLOVIS, CALIFORNIA

LSA

October 2024

TRANSPORTATION IMPACT ANALYSIS

DE YOUNG PROPERTIES PEACH AND BEHYMER PROJECT

CLOVIS, CALIFORNIA

Prepared for:

City of Clovis
1033 Fifth Street
Clovis, California 93612

Prepared by:

LSA
1500 Iowa Avenue, Suite 200
Riverside, California 92507
951.781.9310

Project No. 20231181

October 2024

TABLE OF CONTENTS

APPENDICES

FIGURES

TABLES

LIST OF ABBREVIATIONS AND ACRONYMS

ABM	Activity Based Model
ADA	Americans with Disabilities Act
ATP	Active Transportation Plan
Caltrans	California Department of Transportation
CEQA	California Environmental Quality Act
City	City of Clovis
CUSD	Clovis Unified School District
FAX	Fresno Area Express
Fresno COG	Fresno Council of Governments
FTIP	Federal Transportation Improvement Program
HCM	*Highway Capacity Manual*
HCM 7	*Highway Capacity Manual 7th Edition*
HDM	*Highway Design Manual*
HQTA	High-Quality Transit Area
ITE	Institute of Transportation Engineers
LOS	level of service
LTA	Local Transportation Analysis
mph	miles per hour
NCHRP	National Cooperative Highway Research Program
project	De Young Properties Peach and Behymer Project
RTP	Regional Transportation Plan
STIP	State Transportation Improvement Program
TAZ	traffic analysis zone
TIA	Traffic Impact Analysis
TIA Guidelines	Transportation Impact Analysis Guidelines
TIZ	Traffic Impact Zone
TWLTL	two-way-left-turn lane
VMT	vehicle miles traveled

1.0 INTRODUCTION

This Transportation Impact Analysis (TIA) has been prepared to assess the potential circulation impacts associated with the proposed De Young Properties Peach and Behymer Project (project) within Fresno County (County) and proposed to be annexed in the City of Clovis (City). The approximately 37-acre project site is located at the southwest corner of Minnewawa Avenue and Behymer Avenue on parcels 556-01-028 and 556-01-029. The project site is currently occupied by one residential unit and agricultural uses. Figure 1-1 illustrates the regional and project location. (Figures and tables are provided at the end of each chapter.)

This report has been prepared based on the City of Clovis (City) *Transportation Impact Analysis Guidelines* (TIA Guidelines), dated September 15, 2022.

While level of service (LOS) analysis is no longer a determinant of California Environmental Quality Act (CEQA) impacts, consistency with the City's General Plan goals and policies is still required. Therefore, this TIA includes a Vehicle Miles Traveled (VMT) Analysis for a CEQA Transportation Impact evaluation, and a Local Transportation Analysis (LTA) to satisfy the City's General Plan transportation goals and policies. The scope of work for this TIA, including scope for the CEQA VMT Analysis and LTA with trip generation, trip distribution, study area, and analysis methodologies, has been approved by City staff via the Scoping Agreement process. A copy of the Scoping Agreement is included as Appendix A.

1.1 PROJECT DESCRIPTION

The proposed project is located within City's sphere of influence (SOI) and within the northwest urban center growth area. The project is proposing to annex approximately 37 acres from Fresno County into the City and includes the development of 266 single family dwelling units and 32,974 square-feet (sf) of park space. The project is consistent with the City's General Plan. For purposes of this TIA, the entire buildout condition of this project has been considered under all 'plus project' conditions. It is anticipated that the project buildout will occur in year 2028. Figure 1-2 illustrates the conceptual site plan for the project.

As illustrated in Figure 1-2, access to the project will be provided by four driveways:

- Project Driveway 1: This driveway will be located along Peach Avenue and will be a full-access driveway.
- Project Driveway 2: This driveway will be located along Behymer Avenue and will be a right in-right-out (RIRO) only driveway.
- Project Driveway 3: This driveway will be located along Behymer Avenue and will be a right in-right-out-left-in driveway. Left-out access will be restricted.
- Project Driveway 4: This driveway will be located along Behymer Avenue and will be a RIRO only driveway.

It should be noted that the project is also anticipated to have connections to adjacent future residential development located immediately south of the project site.

1.2 CEQA VEHICLE MILES TRAVELED ANALYSIS

As per the City's TIA Guidelines, the project cannot be considered small because it exceeds 53 dwelling units (City's threshold for screening out single-family home projects from a VMT analysis). Therefore, a detailed VMT analysis has been conducted for the project. For purposes of this analysis, the project-generated VMT per capita has been calculated using the Fresno Council of Governments (Fresno COG) Activity Based Model (ABM). As per the City's TIA Guidelines, a significant project-generated VMT impact would occur if the project's VMT per capita exceeds a level of 13 percent below the existing County average VMT per capita provided in the guidelines. The detailed VMT analysis, including the screening criteria evaluation, VMT analysis methodology, results, and appropriate mitigation measures for the proposed project are discussed in Chapter 2.0.

1.3 LOCAL TRANSPORTATION ANALYSIS STUDY AREA

The LTA for the project examines traffic operations in the vicinity of the proposed project under the following five scenarios:

- Existing Conditions;
- Existing Plus Project Conditions;
- Near-Term Plus Project Conditions;
- Cumulative Without Project Conditions; and
- Cumulative Plus Project Conditions.

Traffic conditions at study intersections were examined for weekday a.m. and p.m. peak-hour conditions. The a.m. peak hour is defined as the 1 hour of highest traffic volumes occurring between 7:00 a.m. and 9:00 a.m. The p.m. peak hour is the 1 hour of highest traffic volumes occurring between 4:00 p.m. and 6:00 p.m. Additionally, since the project is estimated to be completed in 2028, the Near-Term condition was evaluated for the year 2028.

As per the City's TIA Guidelines, the extent of the study area should include the following:

- Pedestrian, bicycle, and transit facilities within 0.5 mile from the project site boundary
- All intersections of major streets that would provide direct access to the project
- All signalized intersections within 0.5 mile of the project site boundary where the project would add 50 or more peak-hour trips, and signalized intersections beyond 0.5 mile where the project would add 100 or more peak-hour trips
- All unsignalized intersections within a 0.5 mile of the project site boundary where the project would add more than 50 peak-hour trips

Based on the aforementioned criteria and as per discussion with the City and adjacent jurisdictions during the scoping agreement process, the following intersections have been included in the LTA.

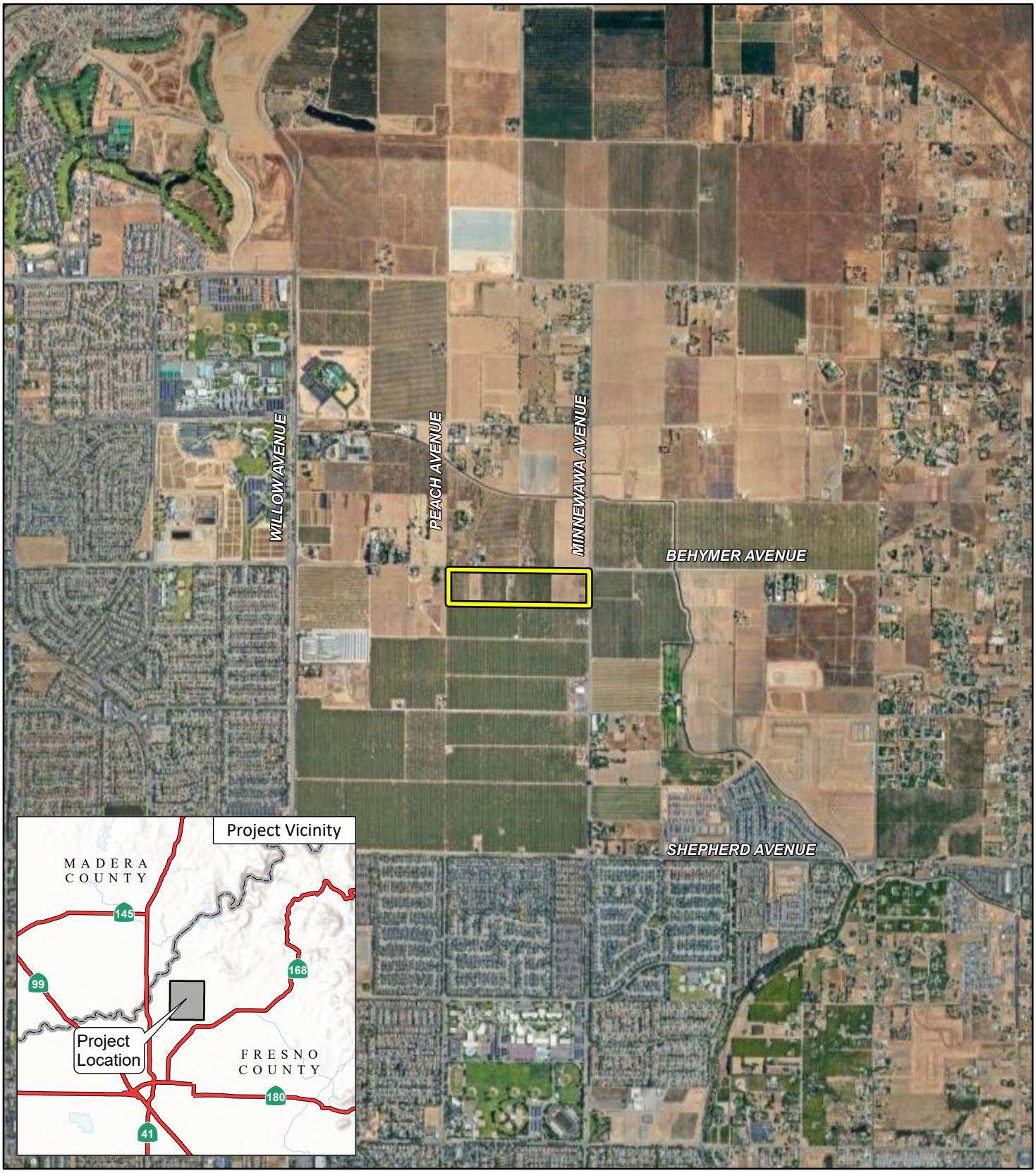
1.3.1 Study Intersections

Per the Scoping Agreement (Appendix A), intersections analyzed in the LTA and their jurisdictions are as follows:

1. Willow Avenue/Behymer Avenue (City of Clovis/City of Fresno);
2. Willow Avenue/Perrin Avenue (City of Clovis/City of Fresno);
3. Peach Avenue/Behymer Avenue (City of Clovis);
4. Minnewawa Avenue/Behymer Avenue (City of Clovis);
5. Minnewawa Avenue/Perrin Road (City of Clovis);
6. Minnewawa Avenue/Shepherd Avenue (City of Clovis);
7. Peach Avenue/Project Driveway 1 (City of Clovis);
8. Project Driveway 2/Behymer Avenue (City of Clovis);
9. Project Driveway 3/Behymer Avenue (City of Clovis); and
10. Project Driveway 4/Behymer Avenue (City of Clovis).

Figure 1-3 illustrates the study area intersections.

1.4 LIST OF CHAPTER 1.0 FIGURES



LSA

LEGEND

Project Location

FIGURE 1-1

N

0 1200 2400

FEET

De Young Properties Peach and Behymer
Transportation Impact Analysis

Regional and Project Location

SOURCE: ESRI Streetmap, 2021; Google Earth, 2022.

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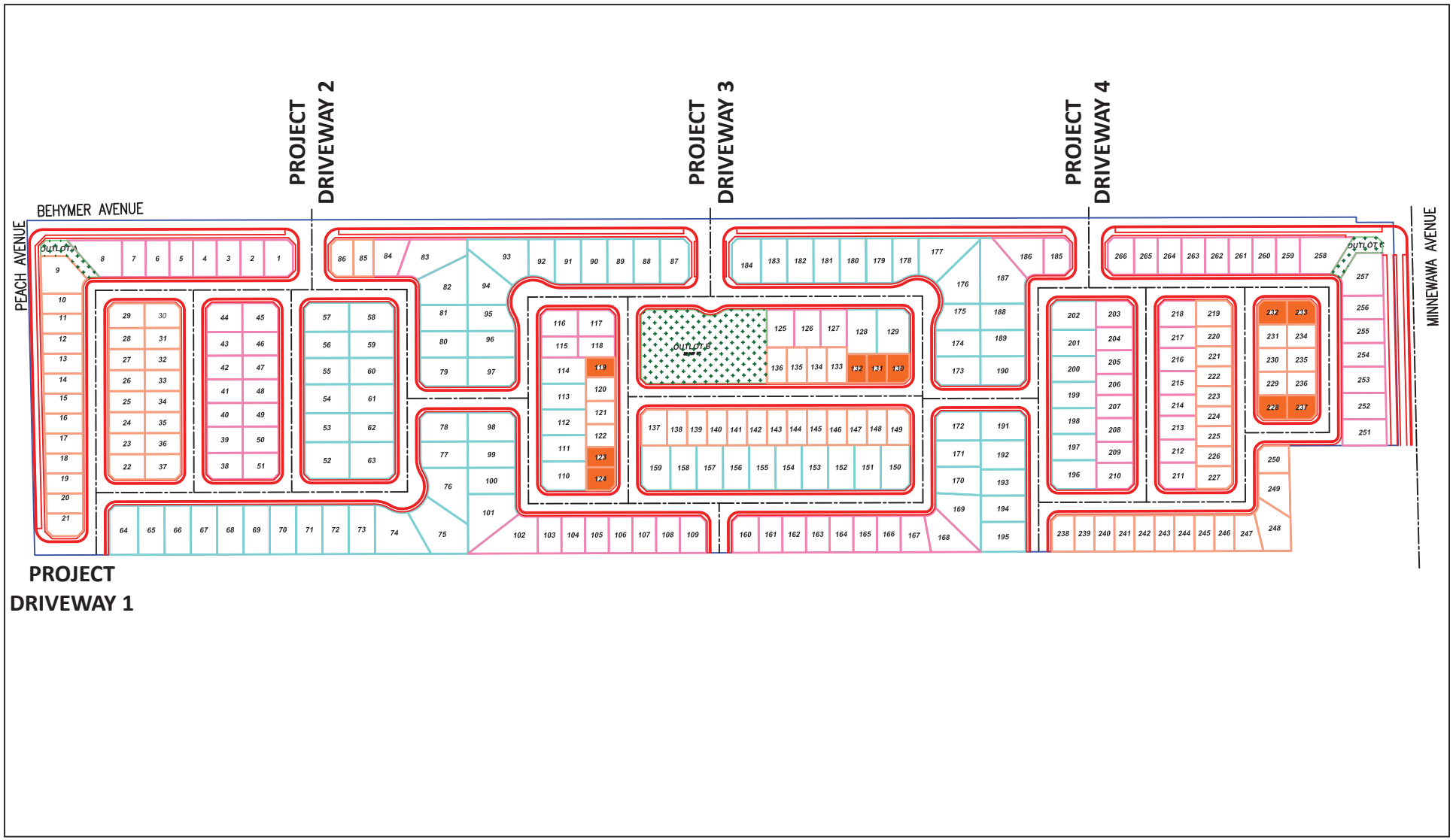


LSA

LEGEND

38' X 55' -TYPICAL	10 LOTS	
38' X 68'- TYPICAL	79 LOTS	
45' X 70'- TYPICAL	82 LOTS	
50' X 85'- TYPICAL	95 LOTS	
266 TOTAL SFR LOTS		PARK

N

0 150 300

FEET

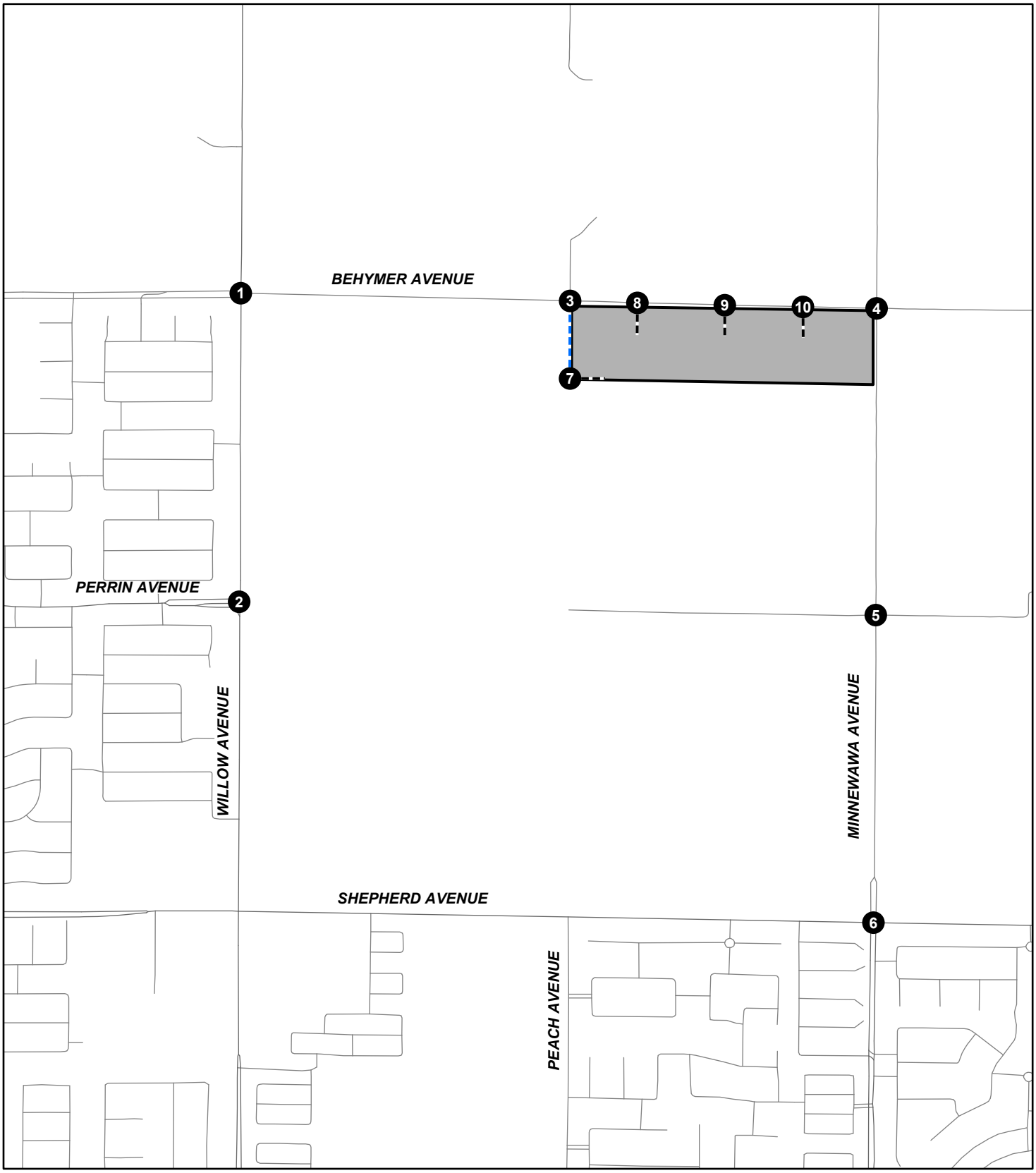
FIGURE 1-2

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Conceptual Site Plan

SOURCE: De Young Properties, February 2024.

P:\20231181 De Young Anexation\GIS\Report\Site Plan (4/05/2024)



LSA

LEGEND

- Project Location
- Study Intersections
- Project Driveway
- Future Roadway

0 600 1200
FEET

FIGURE 1-3

De Young Properties Peach and Behymer
Transportation Impact Analysis
Study Intersections

2.0 VEHICLE MILES TRAVELED ANALYSIS

On December 28, 2018, the California Office of Administrative Law cleared the revised CEQA Guidelines for use. Among the changes to the CEQA Guidelines was the removal of vehicle delay and LOS from consideration under CEQA. With the adopted CEQA Guidelines, transportation impacts are to be evaluated based on a project's effect on VMT.

The City's TIA Guidelines includes screening criteria, VMT analysis methodology, VMT impact thresholds, and VMT mitigation measures. Therefore, the City's TIA Guidelines were used in the evaluation of the project's VMT analysis.

2.1 METHODOLOGY

The TIA Guidelines provide multiple project types and thresholds for land use projects. The project was compared with the screening criteria established in the "Project Screening" section of the TIA Guidelines to check if the project can be screened out. The following is a brief description of the project in relation with the project screening criteria:

- **Small Project:** The TIA Guidelines states that projects generating less than 500 daily trips could be screened out of a detailed VMT analysis. As discussed in Section 6.1, Project Trip Generation, the project is estimated to generate 2,508 daily trips. Therefore, the project does not satisfy this screening criteria.

- **Provision of Affordable Housing:** The project proposes to develop market-rate, single-family dwelling units. Therefore, this screening criteria does not apply to the project.

- **Local-Serving Retail:** The project consists of residential land use only; therefore, this screening criteria does not apply to the project.

- **Project Located in a High-Quality Transit Area (HQTA):** The project is not located within an HQTA; therefore, this screening criteria does not apply to the project.

- **Project Located in Low VMT Area:** The project is not located in a low VMT area; therefore, this criterion does not apply to the project.

As shown above, the project could not be screened out from a detailed VMT analysis. As such, pursuant to the TIA Guidelines, a detailed VMT analysis was conducted to assess the project's VMT impact.

2.1.1 Thresholds of Significance

The project consists of residential land use. The TIA Guidelines established VMT per capita as the appropriate metric to evaluate residential land use projects while defining Fresno County as the "region" for determining VMT thresholds. The project would have a significant VMT impact if the project VMT per capita is greater than 87 percent of the baseline Fresno County VMT per capita. Based on the TIA Guidelines, baseline Fresno County VMT per capita is 16.1 and the corresponding

threshold is 14.1 (which is 87 percent of 16.1). Therefore, the project will have a significant VMT impact if the project VMT per capita is greater than 14.1.

As recommended in the TIA Guidelines, the Fresno COG ABM was used for the project VMT analysis. The model inputs were updated with the project land uses to calculate project VMT. The project VMT was calculated from a Fresno COG ABM model run as described in the following sections.

2.1.2 Project Traffic Analysis Zone Update

The first step in preparation of this analysis was to update the traffic analysis zones (TAZs) in the model that include the project area. The Fresno COG ABM includes the ability to add or split zones. In order to isolate the project VMT, a new zone was created in the model. The project households were included in the newly created zone for modeling purposes. No project-specific network modifications were required for the model run. A model run was conducted for the existing/base scenario with updated model inputs. The outputs from this updated model run were used to calculate the project VMT per capita.

2.1.3 Model Runs and Project Vehicle Miles Traveled Estimation

A model run was conducted for this updated model upon completion of the socioeconomic data update. The outputs from this updated model run were used to calculate the project VMT per capita.

2.2 PROJECT VEHICLE MILES TRAVELED ANALYSIS

Table 2.A summarizes the regional threshold and project VMT per capita. As shown in Table 2.A, the project VMT per capita is 14.9 which is 5.5 percent higher than the City's VMT per capita threshold. Therefore, based on the TIA Guidelines, the project will have a significant VMT impact.

Detailed VMT calculation for the project is included in Appendix B.

2.3 VMT MITIGATION MEASURES

When a lead agency identifies a significant CEQA impact, the agency must identify feasible mitigation measures in order to avoid or substantially reduce that impact. VMT impacts can be mitigated through more behavioral changes. Enforcement of mitigation measures will be subject to the mitigation monitoring requirements under CEQA, as well as the regular police powers of the agency. These measures can also be incorporated as a part of plans, policies, regulations, or project designs.

As previously noted, the project is consistent with the City's General Plan. While preparation of the General Plan, an Environmental Impact Report was prepared, along with a statement of Overriding consideration, that discussed the potential environmental impacts and required mitigation measures to be implemented/followed by all future projects that are consistent with the General Plan. The project will be conditioned to implement and follow these measures. Therefore, though project will have a significant and unavoidable transportation impact under CEQA, no further mitigation measure would be required for the project.

2.4 LIST OF CHAPTER 2.0 TABLES

Table 2.A: Existing Regional and Project VMT per Capita

Regional Threshold (Fresno County)[1]	Project	Difference	Percentage Difference
14.1	14.9	0.8	5.5%

Source: Fresno Council of Governments' Activity-Based Model.

[1] The Fresno County VMT per capita was obtained from the *Transportation Impact Guidelines, City of Clovis* (September 15, 2022).

VMT = vehicle miles traveled

3.0 LOCAL TRANSPORTATION ANALYSIS METHODOLOGY

3.1 LEVEL OF SERVICE DEFINITIONS

LOS can be characterized for the whole intersection, each intersection approach, and by each lane group. Control delay alone is used to characterize LOS for the entire intersection. Control delay quantifies the increase in travel time due to the traffic signal control and is a surrogate measure of driver discomfort and fuel consumption.

A complete description of the meaning of LOS can be found in Transportation Research Board Special Report 209, *Highway Capacity Manual* (HCM). The HCM establishes LOS A through F for intersections. A description of LOS for signalized and unsignalized intersections is summarized in Table 3.A.

Table 3.B shows the LOS criteria for unsignalized and signalized intersections. For all study area intersections, the *Highway Capacity Manual 7th Edition* (HCM 7) analysis methodologies were used to determine intersection LOS. Intersection LOS was calculated using the Synchro 12 software, which uses the HCM 7 methodologies.

3.2 LEVEL OF SERVICE PROCEDURES AND STANDARDS

Study intersections analyzed in this report are completely under the jurisdiction of the City of Clovis or lie at the borders of Clovis and Fresno. The City of Clovis considers LOS D as the LOS standard for study intersections under near-term conditions, unless a finding of overriding consideration was adopted in the City's General Plan EIR. The same criterion holds for cumulative conditions. The City's TIA Guidelines do not define an LOS standard under Existing Plus Project conditions. For the purpose of this analysis, an LOS standard of D has been considered for intersections under Existing Plus Project conditions. The City considers the following operational deficiency criteria for study intersections:

- **Signalized Intersections**
  - If the project triggers a signalized intersection operating at an acceptable LOS to operate at an unacceptable LOS; OR
  - If the project increases the average delay for a signalized intersection that is already operating at an unacceptable LOS.
- **Unsignalized Intersections**
  - If the project triggers an unsignalized intersection operating at acceptable LOS to operate at unacceptable LOS (from E or better to F) and meet the signal warrants criteria; OR
  - If the project increases the applicable delay for an unsignalized study intersection that is already operating at unacceptable LOS and meets the signal warrant criteria.

Per the City of Fresno *Traffic Impact Study Report Guidelines,* updated February 2009, LOS D is considered the LOS standard for study intersections under near-term conditions. The same criterion

holds for long-term conditions. The City's TIA Guidelines do not define an LOS standard under Existing Plus Project conditions.

It should be noted that all City of Fresno study intersections are located within the City of Fresno Traffic Impact Zone (TIZ) III. Per the City of Fresno's General Plan, all intersections within TIZ III should maintain a peak-hour LOS standard of D or better. Therefore, an LOS standard of D has been considered for intersections shared with Fresno for all analysis conditions. The City of Fresno considers the following operational deficiency criteria for study intersections:

- An operational deficiency is created if the addition of the project traffic results in any one of the following:
    - Causes the intersection LOS to change from acceptable to unacceptable levels; OR
    - Causes the intersection LOS to change from an unacceptable LOS (LOS E) to LOS F; OR
    - Increases the average delay at a study intersection that is already operating at an unacceptable LOS.

3.3 LIST OF CHAPTER 3.0 TABLES

- Table 3.A: Intersection Level of Service Definitions
- Table 3.B: Level of Service Criteria for Unsignalized and Signalized Intersections

Table 3.A: Intersection Level of Service Definitions

LOS	Description
A	Traffic operations with a control delay of 10 seconds per vehicle or less and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is exceptionally favorable or the cycle length is very short. If LOS A is the result of favorable progression, most vehicles arrive during the green indication and travel through the intersection without stopping.
B	Traffic operations with control delay between 10 seconds per vehicle and 20 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is highly favorable or the cycle length is short. More vehicles stop than with LOS A.
C	Traffic operations with control delay between 20 and 35 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when progression is favorable or the cycle length is moderate. Individual cycle failures (i.e., one or more queued vehicles are not able to depart as a result of the insufficient capacity during the cycle) may begin to appear at this level. The number of vehicles stopping is significant, although many vehicles still pass through the intersection without stopping.
D	Traffic operations with control delay between 35 and 55 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is high and either progression is ineffective or the cycle length is long. Many vehicles stop and individual cycle failures are noticeable.
E	Traffic operations with control delay between 55 and 80 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when volume-to-capacity ratio is high, progression is unfavorable, and the cycle length is long. Individual cycle failures are frequent.
F	Traffic operations with control delay exceeding 80 seconds per vehicle or a volume-to-capacity ratio greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is very high, progression is very poor, and the cycle length is long. Most cycles fail to clear the queue.

Source: Highway Capacity Manual (7th Edition).

Table 3.B: Level of Service Criteria for Unsignalized and Signalized Intersections

Level of Service	Unsignalized Intersection Average Delay per Vehicle (sec)	Signalized Intersection Average Delay per Vehicle (sec)
A	≤ 10	≤ 10
B	> 10 and ≤ 15	> 10 and ≤ 20
C	> 15 and ≤ 25	> 20 and ≤ 35
D	> 25 and ≤ 35	> 35 and ≤ 55
E	> 35 and ≤ 50	> 55 and ≤ 80
F	> 50	> 80

Source: Highway Capacity Manual (7th Edition).
sec = seconds

4.0 CIRCULATION NETWORK SETTING

4.1 EXISTING CIRCULATION NETWORK

The project study area includes the following major roadways as classified based on the roadway classification provided in the Circulation Element of the City's General Plan. Figure 4-1 summarizes the classifications of major roadways within the study area. Following is a brief description of these roadways:

- **Willow Avenue:** Willow Avenue is designated as an Arterial in the City's General Plan. Between Behymer Avenue and Shepherd Avenue, Willow Avenue is a six-lane, divided Arterial with a raised median. There are bicycle lanes along both directions of this segment. However, there is no provision for on-street parking.

- **Minnewawa Avenue:** Within the study area, Minnewawa Avenue is designated as an Arterial between Behymer Avenue and Shepherd Avenue in the City's General Plan. Minnewawa Avenue is a two-lane, undivided road. There are bicycle lanes along both directions of this segment. However, there is no provision for on-street parking.

- **Behymer Avenue:** Within the study area, Behymer Avenue is designated as an Arterial between Willow Avenue and Minnewawa Avenue in the City's General Plan. Between Willow Avenue and Minnewawa Avenue, Behymer Avenue is a two-lane, undivided road. There are no bicycle facilities along both directions of this segment and no provision for on-street parking.

- **Shepherd Avenue:** Within the study area, Shepherd Avenue is designated as an Arterial between Willow Avenue and Minnewawa Avenue in the City's General Plan. Shepherd Avenue is a three-lane, divided road with a raised median. There are bicycle lanes along both directions of the segment. There is no provision for on-street parking along any of these segments.

- **Perrin Avenue:** Within the study area, Perrin Avenue is designated as a Collector in the City's General Plan and is a two-lane, undivided roadway with no bicycle lanes along both directions of these segments and there is no provision for on-street parking.

Figure 4-2 illustrates the existing plus project study intersection geometrics and traffic control, and Figure 4-3 illustrates the cumulative plus project study intersection geometrics and traffic control.

4.2 BICYCLES, PEDESTRIANS, AND TRANSIT

4.2.1 Bicycle Network

The vision of the City of Clovis *Active Transportation Plan (ATP)*, September 2023, is a "city with a complete and connected network of trails, walkways, and bikeways that provides convenient and intuitive connections to key destinations and supports travel within and between neighborhoods. The network improves quality of life by encouraging walking and bicycling for transportation and recreation." The ATP identifies different strategies to improve safety and accessibility for active

modes of transportation such as walking and biking. There are four different types of existing bicycle facilities in the City:

- Class I (Trails)
- Class II (Bicycle Lanes)
- Class II (Buffered Bicycle Lanes)
- Class III (Bicycle Routes)

One of the long-term visions of the City includes upgrading existing or recommended Class II Bicycle Lanes and Buffered Bicycle Lanes to Class IV Separated Bicycle Lanes.

Figures 4-4 illustrate the existing and proposed bicycle facilities within the City. At present, Class II bicycle lanes exist along Willow Avenue, Minnewawa Avenue and Shepherd Avenue within the study area. However, as shown in Figure 4-4, Class II bicycle facilities are proposed along Behymer Avenue and Peach Avenue roadways within the study.

4.2.2 Pedestrian Network

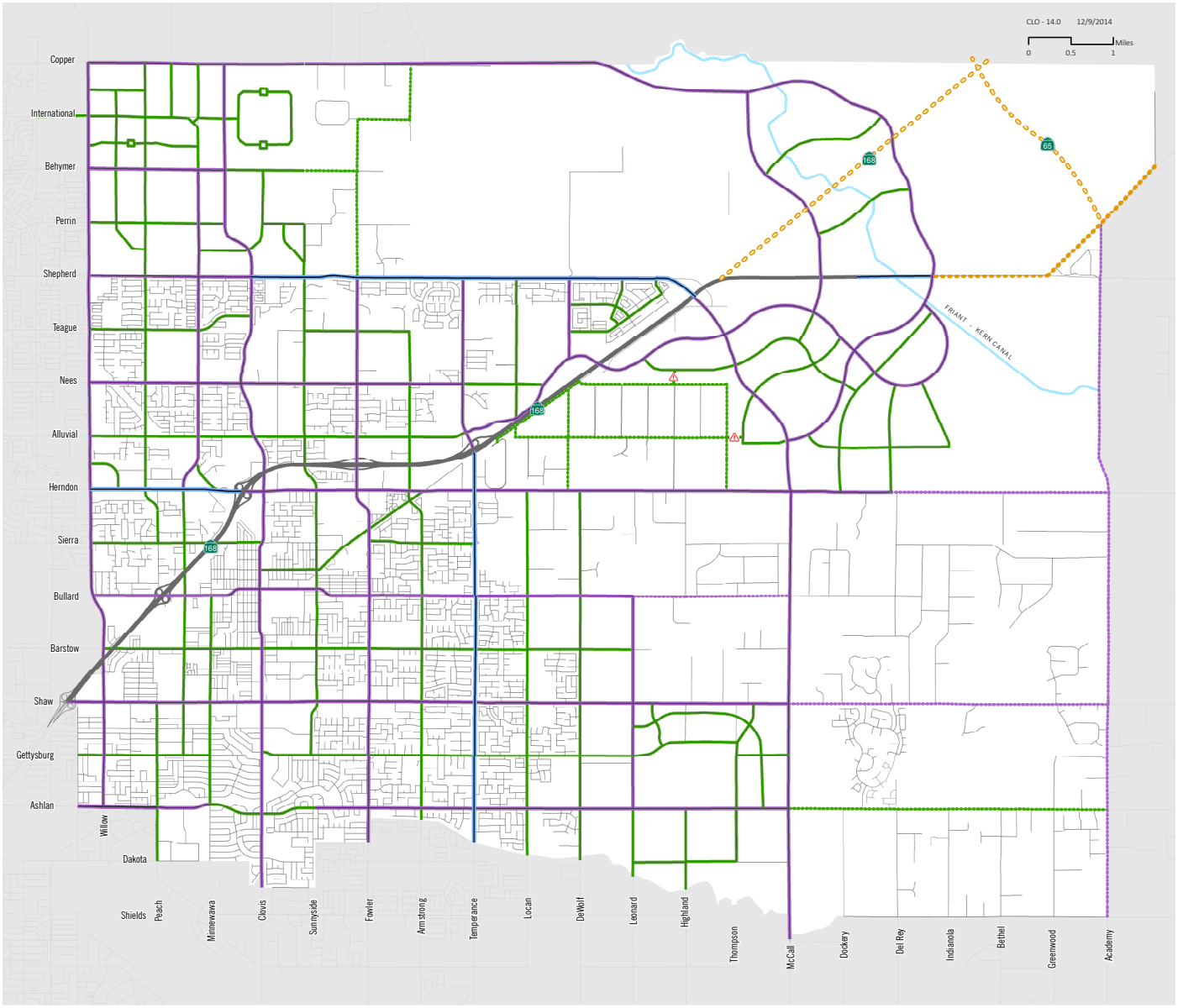
The City has an extensive pedestrian network, with sidewalks along most of the major roads. However, since a portion of the study area falls within recently incorporated areas of the City, sidewalks are not present because they were previously developed as per unincorporated Fresno County design guidelines. Figure 4-5 illustrates the existing sidewalk facilities within Clovis.

The City's ATP has identified improvements to the pedestrian network based on a citywide sidewalk network gap analysis. Additionally, several potential locations have been identified to install mid-block crossings to improve trail connectivity throughout Clovis. Figure 4-6 illustrates the existing and proposed trails and paseos in Clovis. As shown on Figure 4-6, Clovis Old Town Trail exists on the southbound direction of Willow Avenue within the study area. However, additional trails are being proposed in the study area such as along Shepherd Avenue and Minnewawa Avenue.

4.2.3 Transit Network

Fresno Area Express (FAX) Route 03 operates within the study area along Willow Avenue, 7 days a week. The route connects communities in Fresno to the different campuses of Clovis Community College. In addition to fixed route services, Round Up is the Clovis paratransit service for disabled City residents. Round Up transit vehicles are all accessible in accordance with the Americans with Disabilities Act (ADA) standards. Figure 4-7 illustrates the existing transit system within Clovis.

4.3 LIST OF CHAPTER 4.0 FIGURES



LSA

LEGEND

- Freeway
- Conceptual 2-4 Lane State Highway
- State Highway
- Expressway
- Arterial
- Rural Arterial
- Collector
- Rural Collector
- Local
- Emergency Access Only

N

FIGURE 4-1

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

City of Clovis Roadway Classification

SOURCE: Clovis General Plan, August 2014

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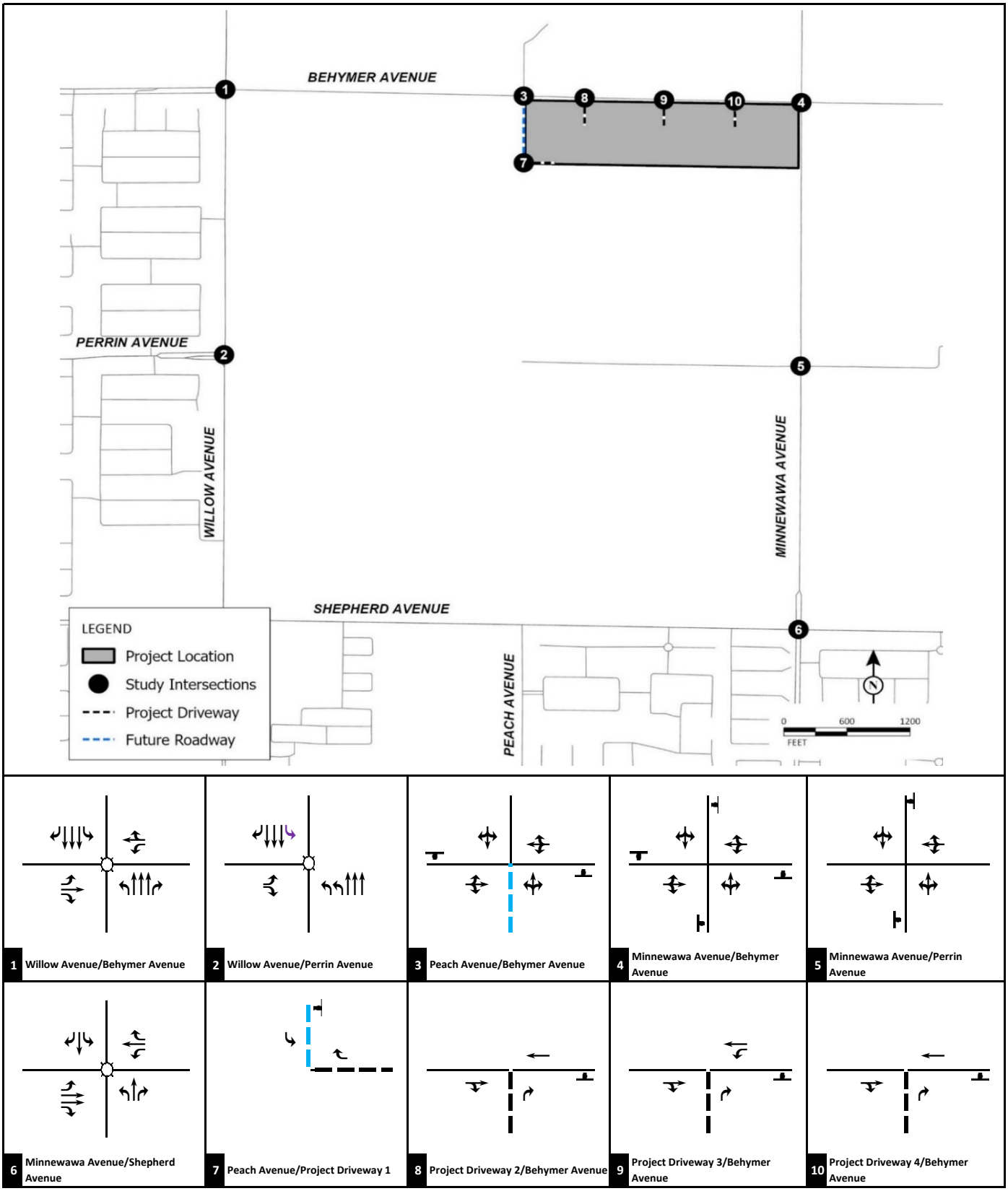

FIGURE 4-2

LSA

Legend

Signal
Stop Sign
Project Driveway
Future Driveway
U-Turn Movement

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Existing Plus Project Study Intersection Geometrics and Traffic Control

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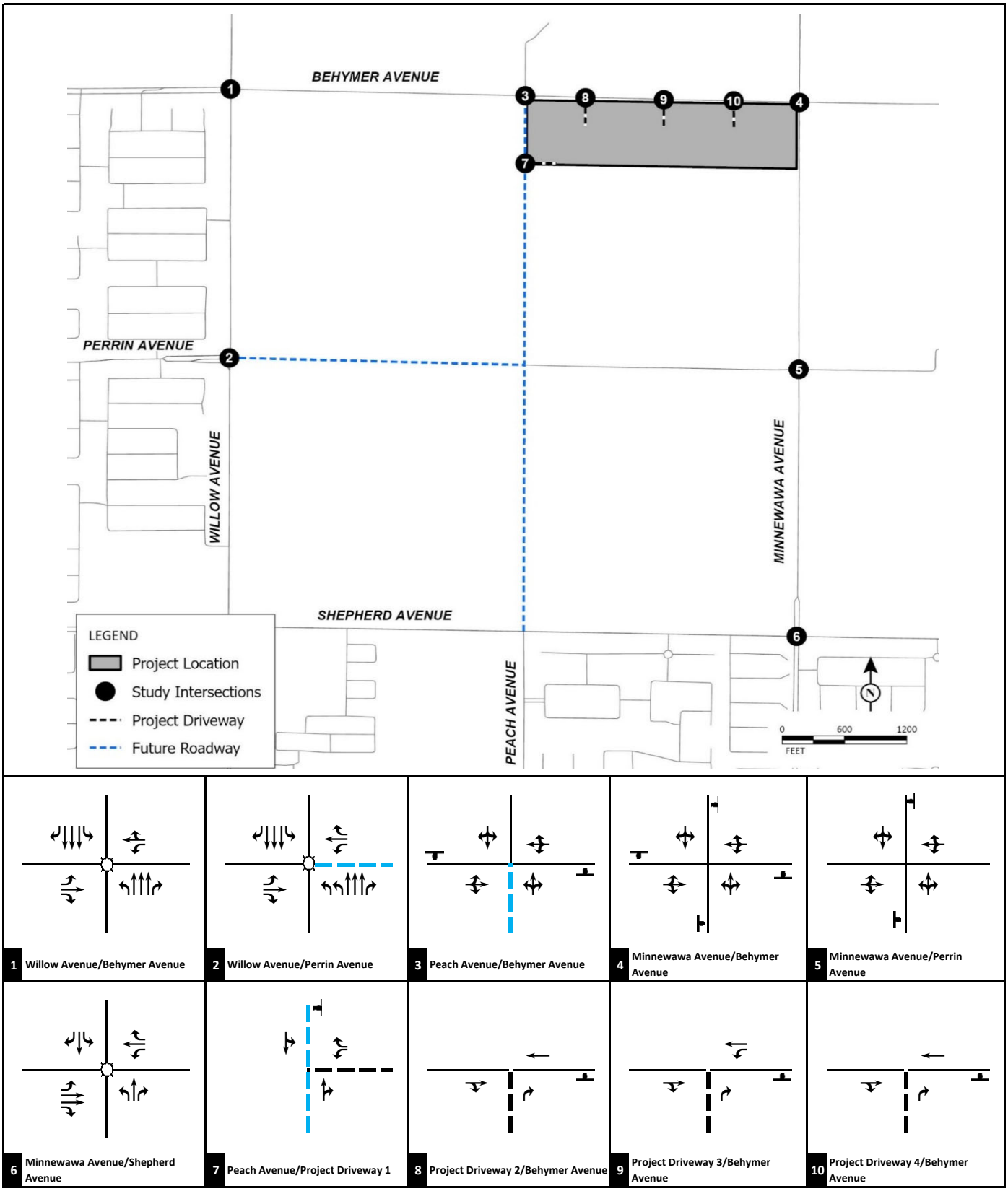


FIGURE 4-3

LSA

Legend

Signal

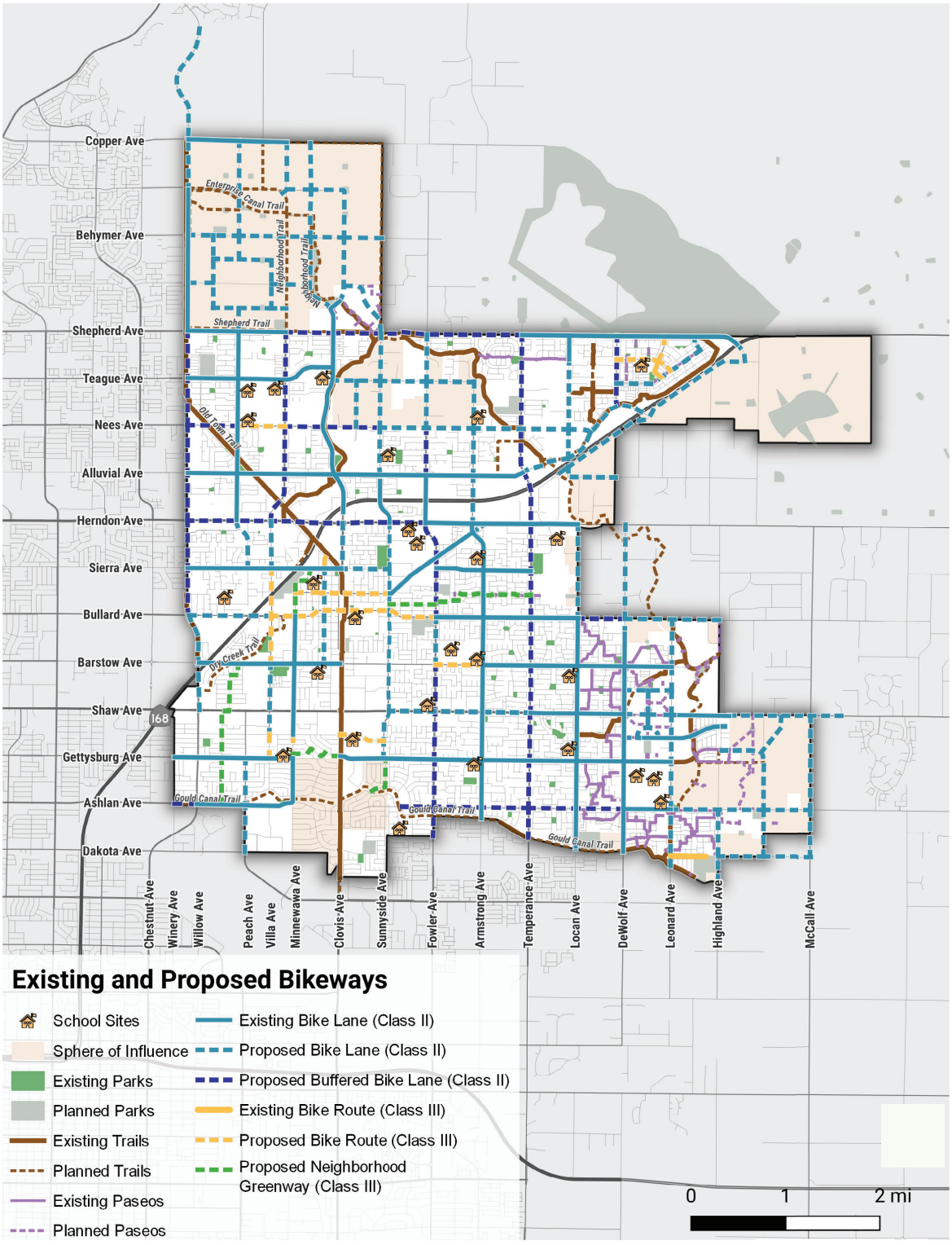
Stop Sign

Project Driveway

Future Driveway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Cumulative Plus Project Study Intersection Geometrics and Traffic Control



LSA

FIGURE 4-4

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

City of Clovis Existing and Proposed Bikeways

SOURCE: City of Clovis Active Transportation Plan, September 2023.

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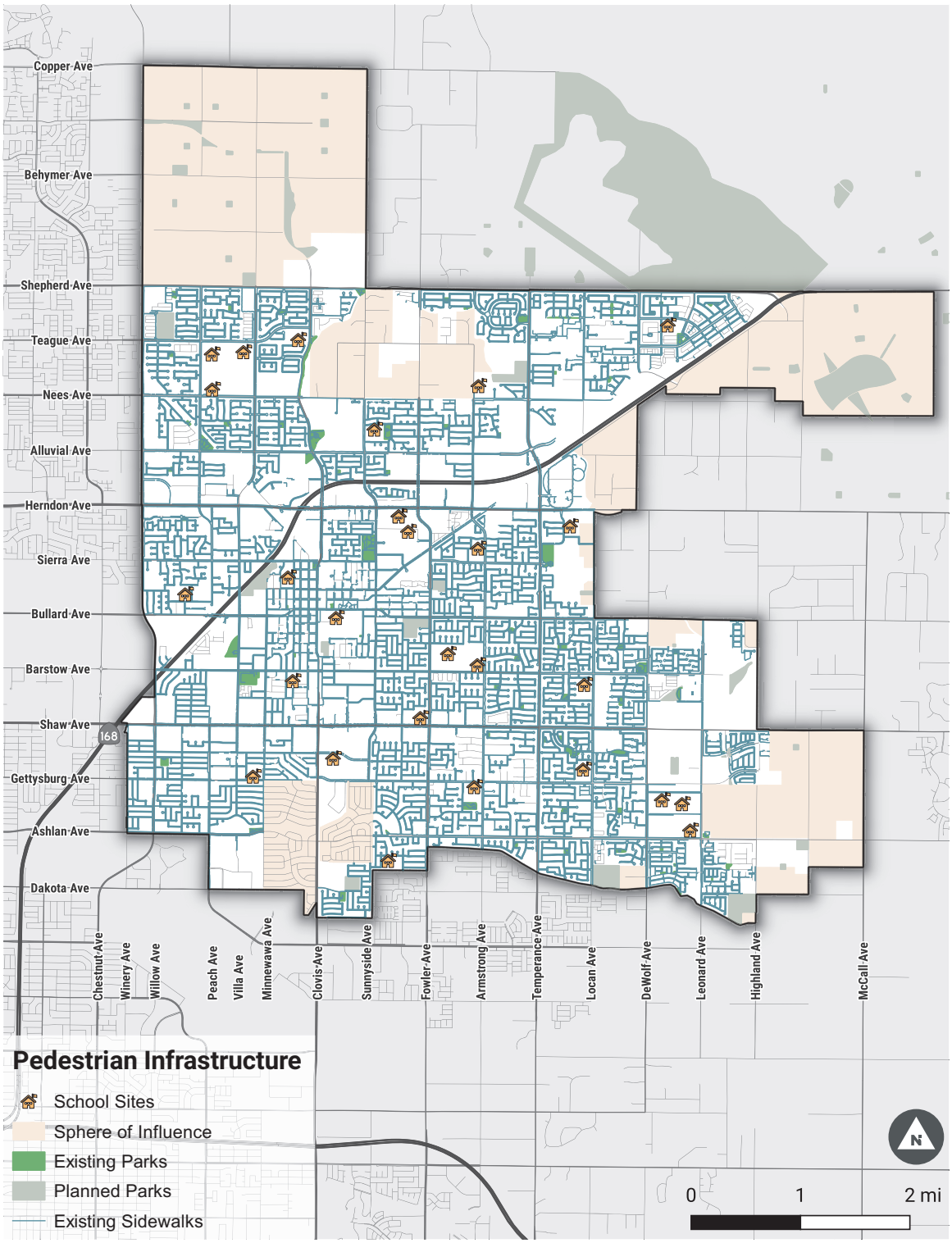

LSA

FIGURE 4-5

N

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

City of Clovis Existing Pedestrian Infrastructure

SOURCE: City of Clovis Active Transportation Plan, September 2023.

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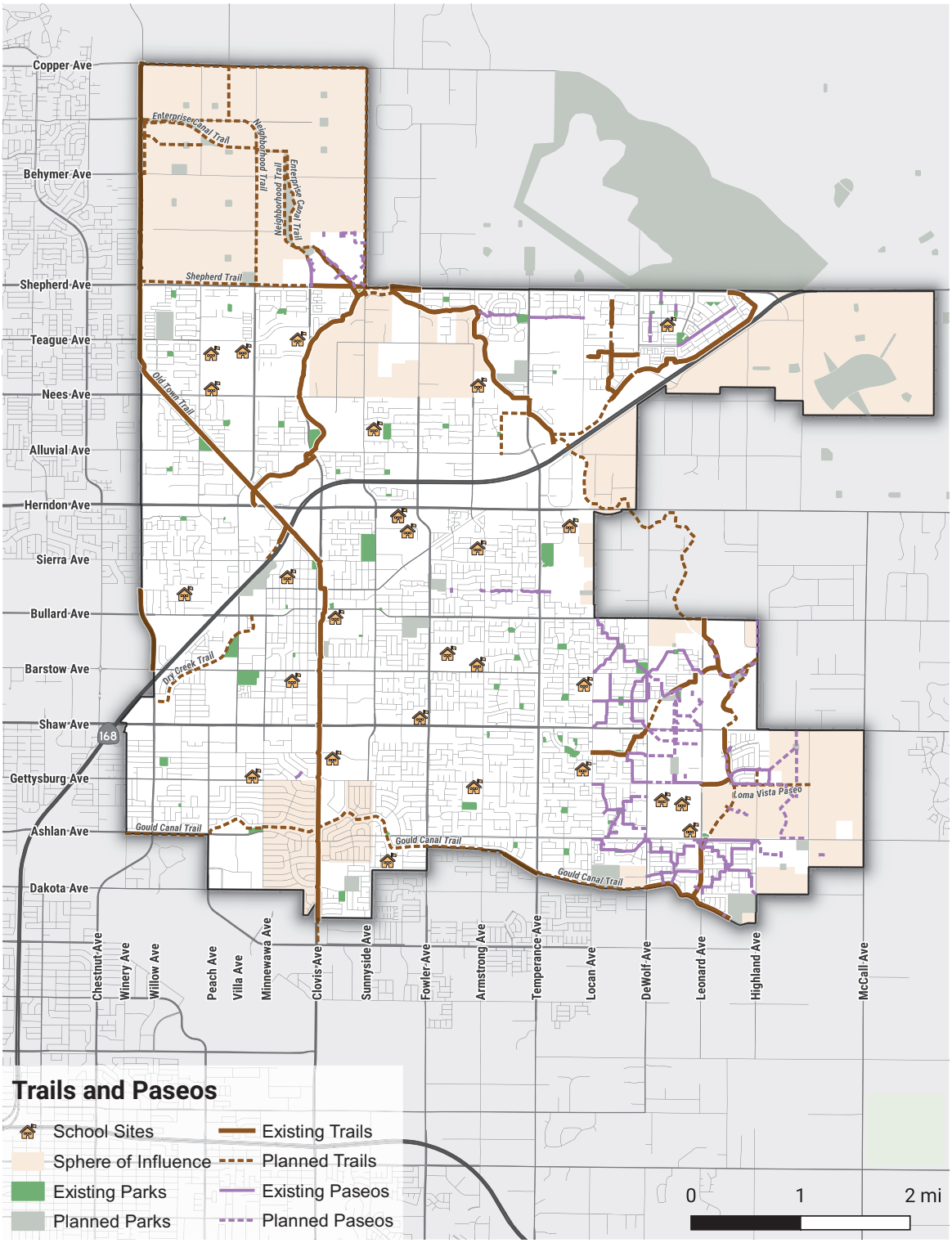

LSA

FIGURE 4-6

N

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

City of Clovis Existing and Proposed Trails and Paseos

SOURCE: City of Clovis Active Transportation Plan, September 2023.

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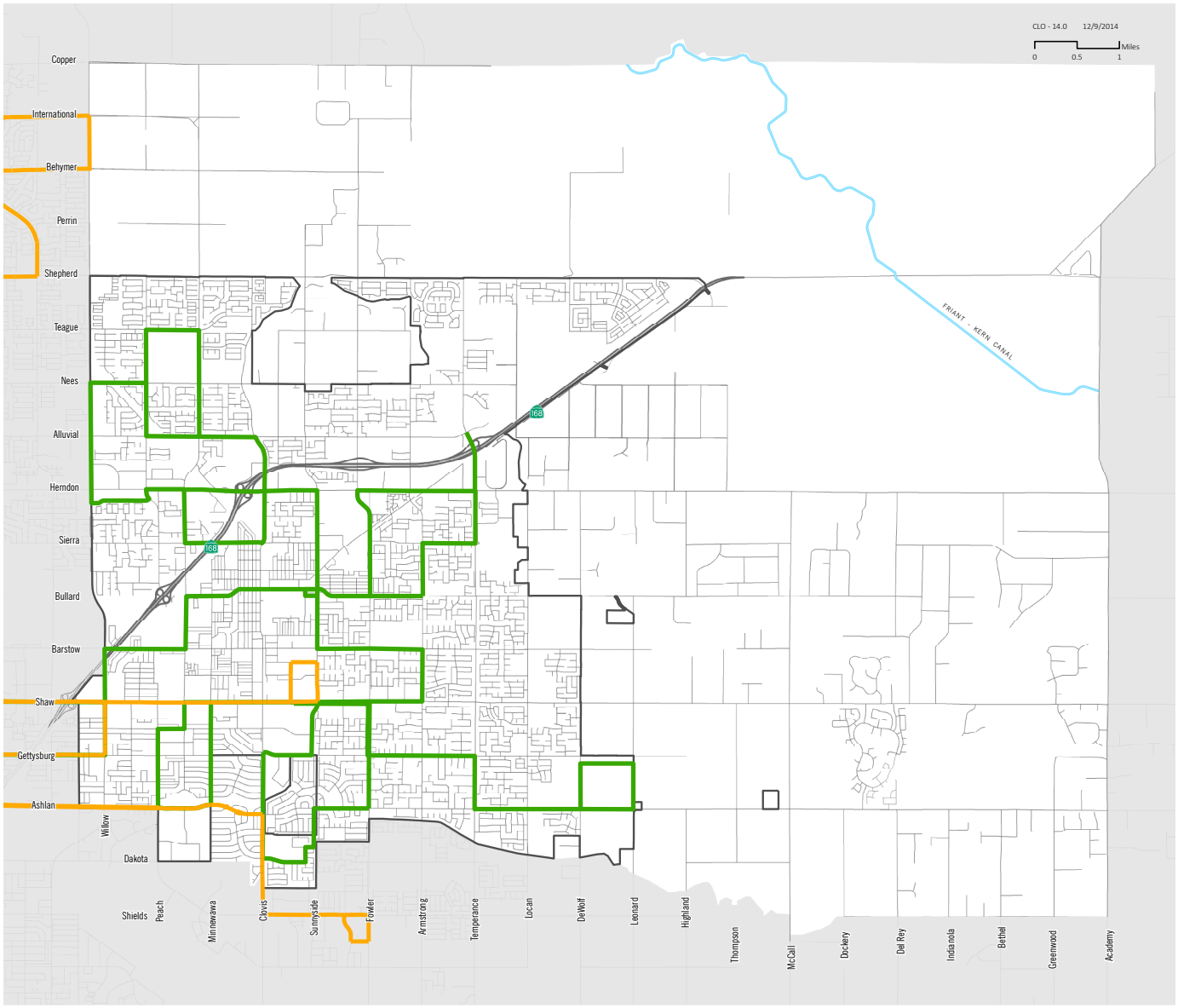

LSA

LEGEND

- FAX Routes
- Clovis Stageline Route
- City Boundary

N

FIGURE 4-7

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

City of Clovis Transit System

SOURCE: Clovis General Plan, August 2014

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5.0 TRAFFIC VOLUMES FOR WITHOUT PROJECT SCENARIOS

5.1 EXISTING TRAFFIC VOLUMES

Traffic volumes for existing conditions were developed using existing count data collected by Counts Unlimited in May 2024 at study intersections, when schools were in session. Vehicle classification counts were collected at selected study area intersections. Truck percentages for every approach at these intersections were obtained from the vehicle classification counts. As for the remaining study intersections without classification counts, truck percentages for the various approaches were applied based on the truck percentages at the adjacent intersections. This truck percentages were applied in Synchro for intersection LOS analysis.

Figure 5-1 illustrates peak-hour traffic volumes at study intersections under existing conditions. Detailed count sheets are included in Appendix C.

5.2 NEAR-TERM (2028) WITHOUT PROJECT TRAFFIC VOLUMES

Traffic volumes under the Near-term (2028) and Cumulative (2046) were developed using the Fresno Council of Governments' (COG's) Activity-Based Model (ABM) growth projections. The current base year for Fresno COG ABM is 2019, while the forecast year is 2046.

The forecast year model socioeconomic data were evaluated to check whether it includes information regarding the approved and pending projects in the region. Information concerning approved and pending projects within the vicinity of the study area were obtained from the City of Clovis, City of Fresno, and County of Fresno, and were compared with the future year socioeconomic data for their respective TAZ. In case it was determined that the respective project was not included, the project information was manually added into the model for generating future year traffic volumes. As such, the updated model included all potential approved and pending projects as provided by the City of Clovis and adjacent jurisdictions to be built by future year conditions. Figure 5-2 illustrates these approved and pending project locations. Table 5.A summarizes the proposed land uses and quantities for these projects.

Growth from the model base to the model future was applied to existing traffic volumes to develop Near-Term (2028) without project traffic volumes. The methodology used to develop cumulative traffic volumes at all study intersections is consistent with the National Cooperative Highway Research Program (NCHRP) and Fresno COG's procedures for post-processing of modeled traffic volumes. As such, Near-Term (2028) without project traffic volumes were developed by interpolating between Existing (2024) and Cumulative (2046) traffic volumes. Figure 5-3 illustrates the peak-hour traffic volumes at study intersections under near-term without project conditions.

It should be noted that volume development for this scenario have been conducted as an intermediate step for the development of traffic volumes for the Near-Term Plus Project Conditions. As such, as recommended in the City's TIA Guidelines and approved during the scoping agreement process, this scenario has not been analyzed in the LTA.

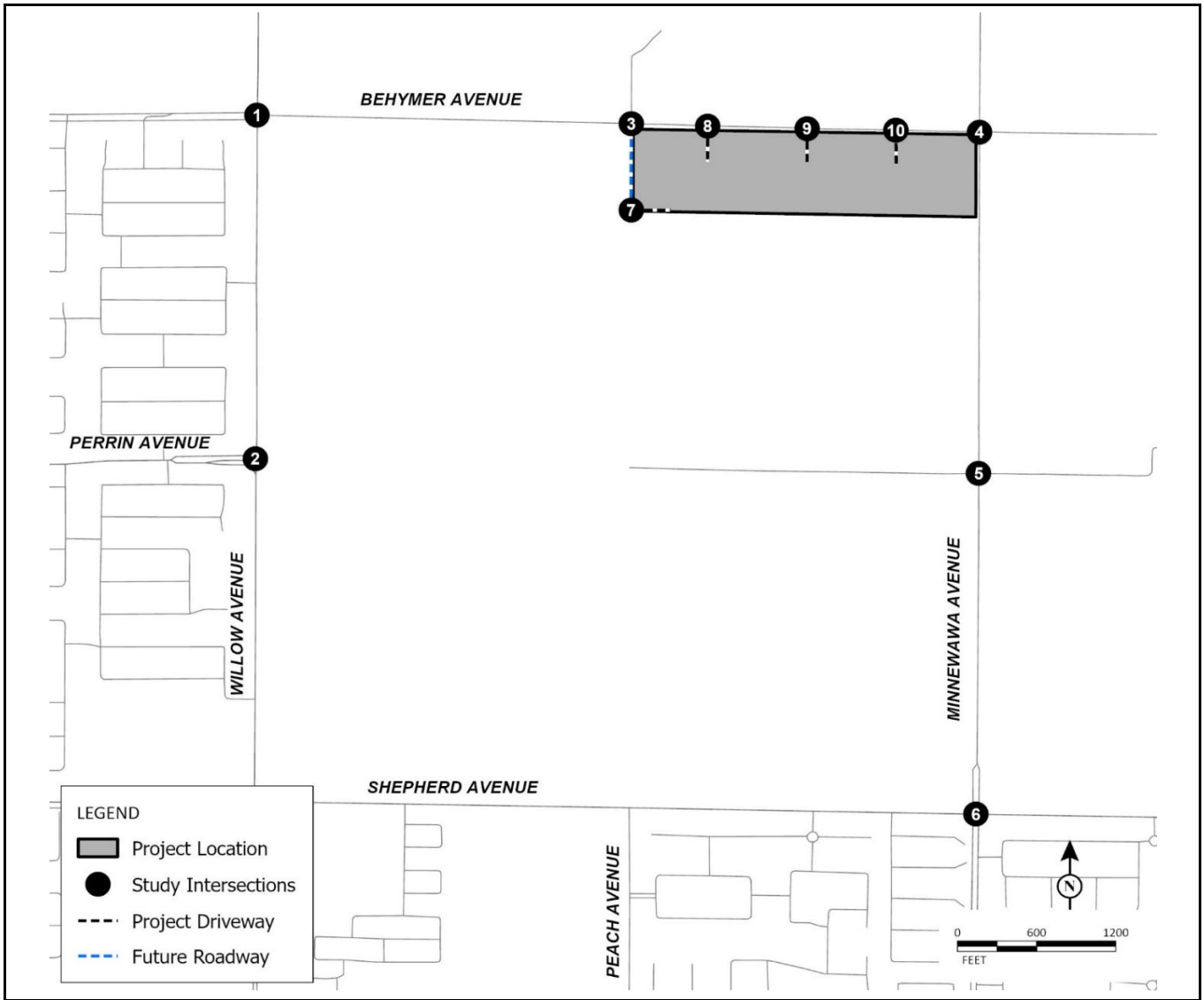
5.3 CUMULATIVE (2046) WITHOUT PROJECT TRAFFIC VOLUMES

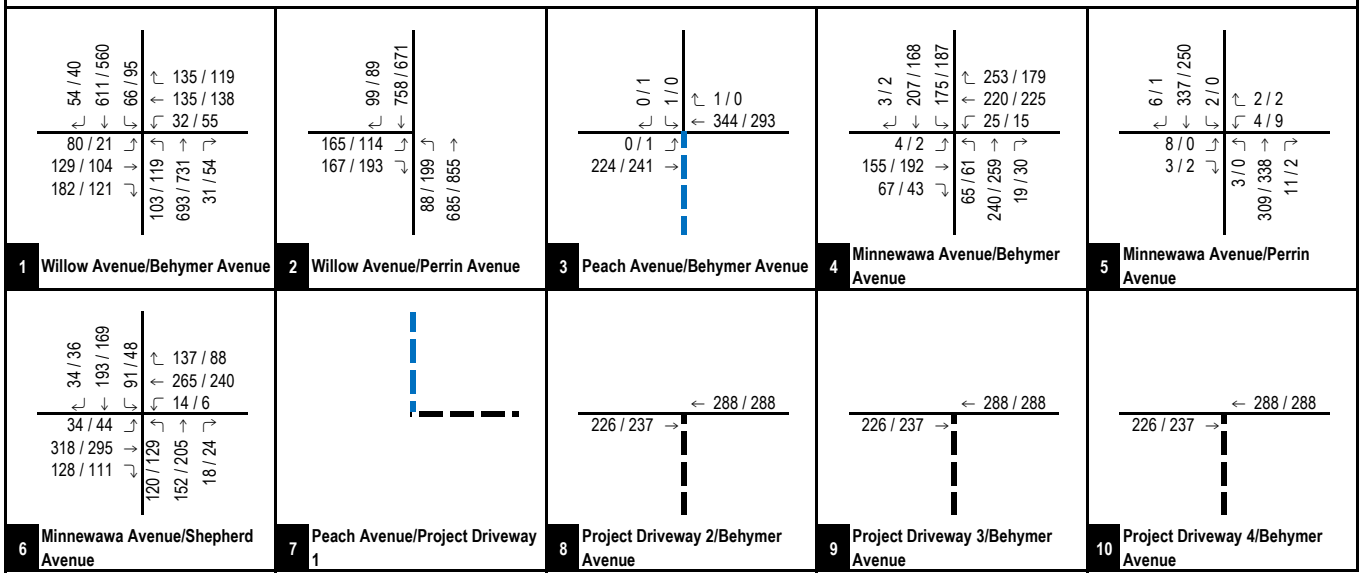
As previously mentioned, traffic volumes for cumulative conditions were developed using the Fresno COG ABM. The methodology used to develop cumulative traffic volumes at all study intersections is consistent with the National Cooperative Highway Research Program (NCHRP) and Fresno COG's procedures for post-processing of modeled traffic volumes. Figure 5-4 illustrates the peak-hour traffic volumes at study intersections under cumulative without project conditions.

Detailed volume development worksheets are included in Appendix D.

5.4 LIST OF CHAPTER 5.0 FIGURES AND TABLES

- Figure 5-1: Existing Peak-Hour Traffic Volumes
- Figure 5-2: Approved and Pending Project Locations
- Figure 5-3: Near-Term (2028) without Project Peak-Hour Traffic Volumes
- Figure 5-4: Cumulative (2046) without Project Peak-Hour Traffic Volumes
- Table 5.A: Approved and Pending Projects





LSA

FIGURE 5-1

XXX / YYY
AM / PM Peak Hour Traffic Volumes

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Existing Peak Hour Traffic Volumes

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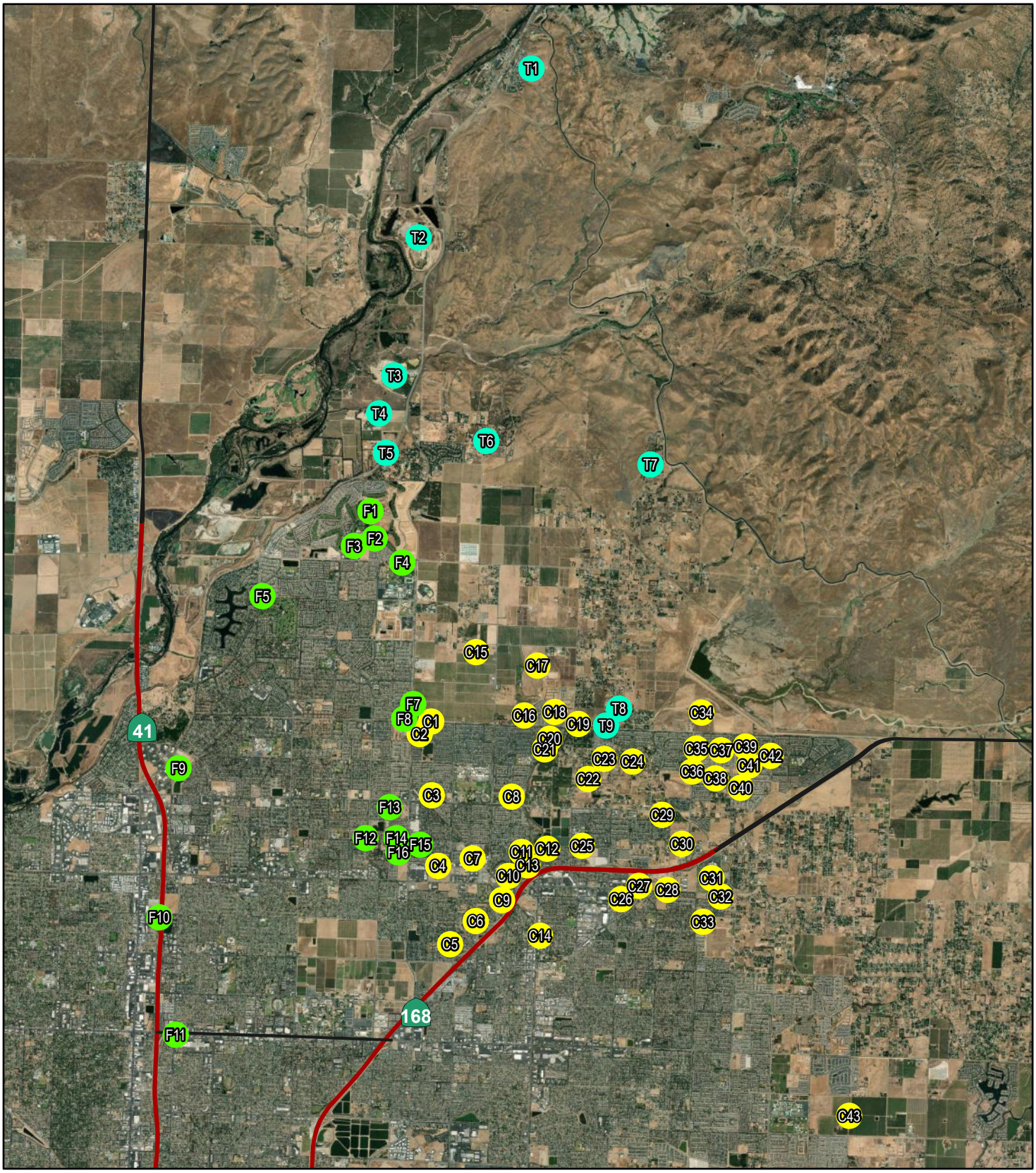

LSA

LEGEND

- City of Clovis
- City of Fresno
- County of Fresno

0 4000 8000

FEET

FIGURE 5-2

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Approved and Pending Project Locations

SOURCE: Google Earth 2021; ESRI Streetmap, 2021

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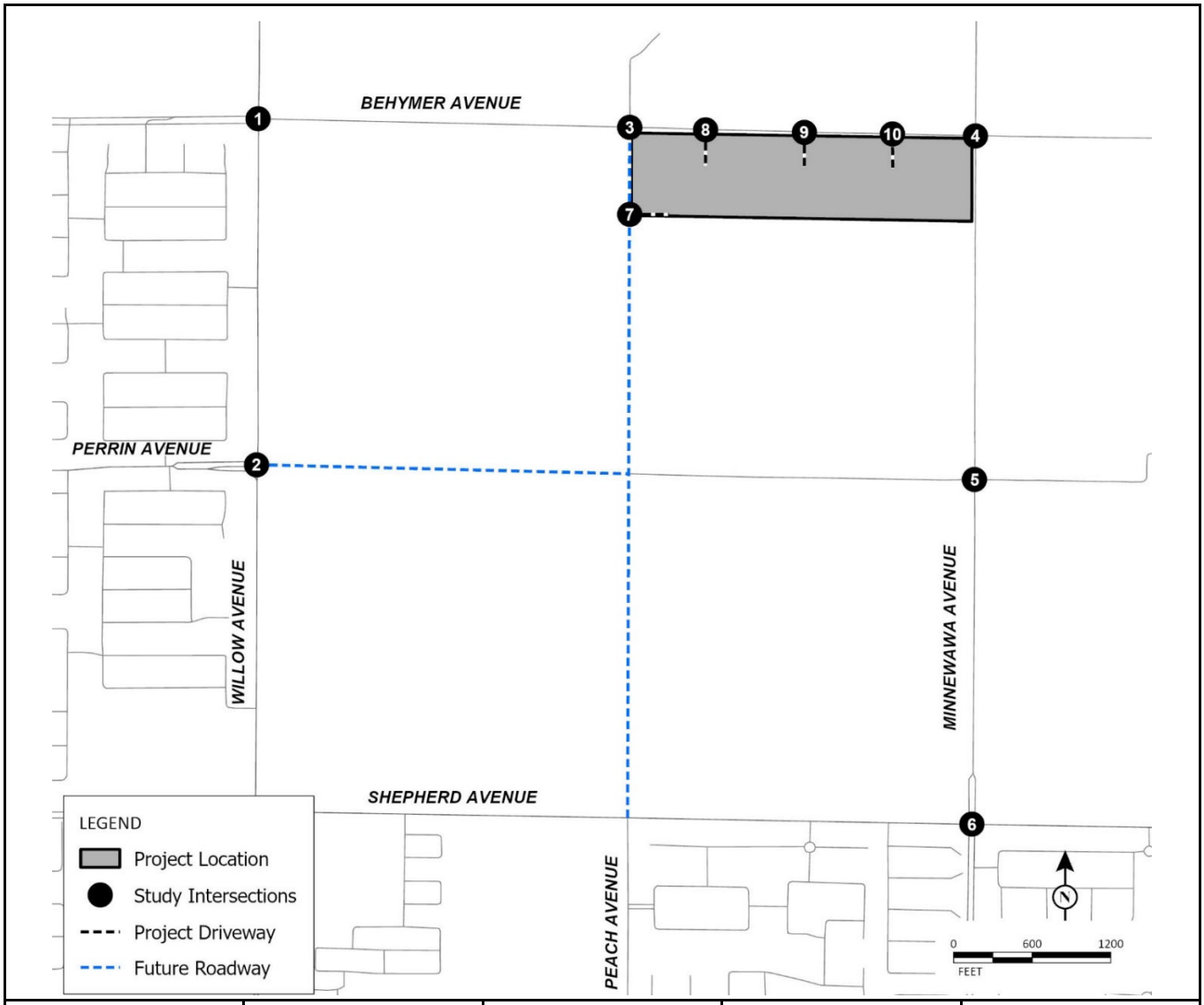

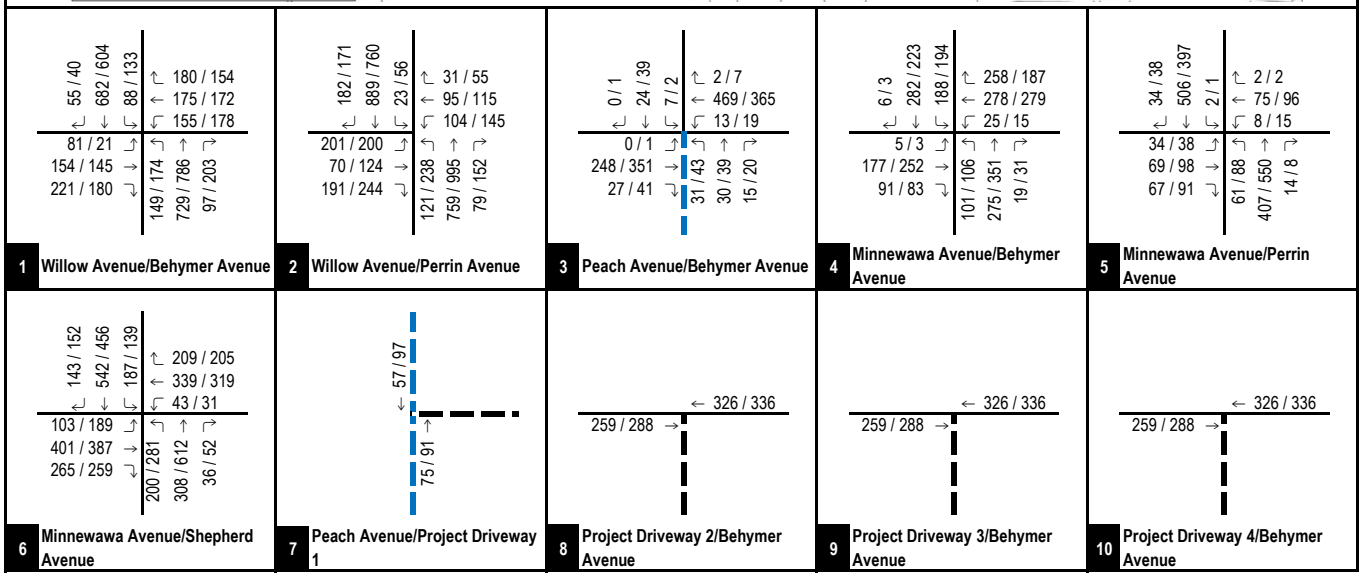

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FIGURE 5-3

XXX / YYY
AM / PM Peak Hour Traffic Volumes

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Near-Term (2028) without Project Peak Hour Traffic Volumes

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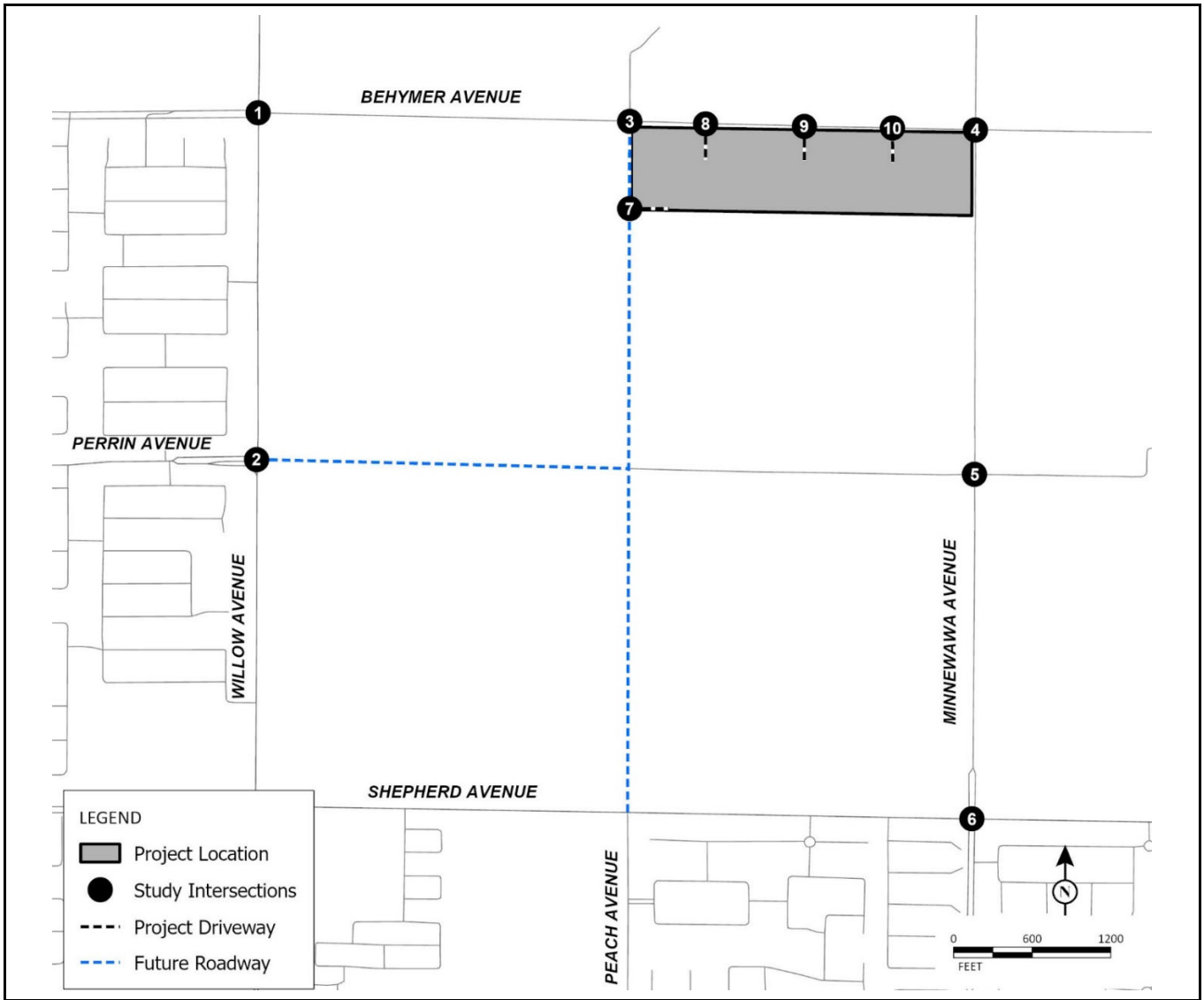

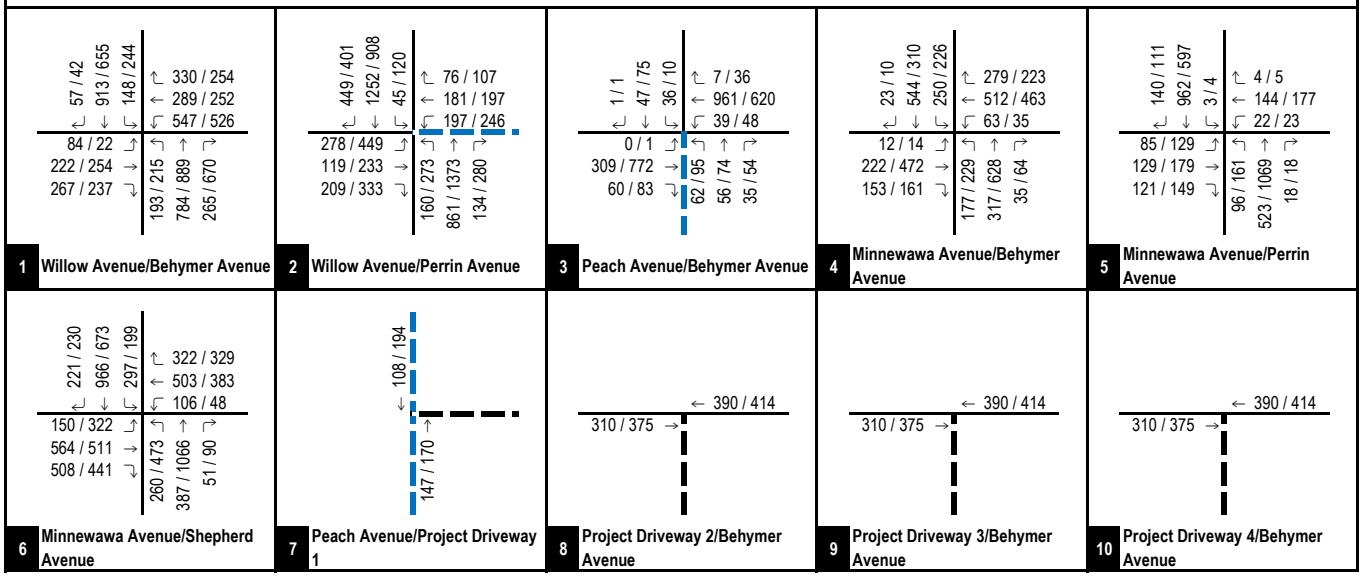

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FIGURE 5-4

XXXX / YYYY
AM / PM Peak Hour Traffic Volumes

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Cumulative (2046) without Project Peak Hour Traffic Volumes

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Table 5.A - Approved and Pending Projects

ID	Jurisdiction	Project Name/Reference	Address/Location	Project Description	Project Units/Area/Other
C1	City of Clovis	SPR 2021-09	1958 N Willow Avenue	Commercial Expansion	24.287 TSF
C2	City of Clovis	MFDR 2021-02	SEC of Willow Ave/Shepherd Ave	Multi-Family Dwelling Units	255 MFDU
C3	City of Clovis	TM 6348	NEC of Timmy Ave/Ness Ave	Single Family Development	10 SFDU
C4	City of Clovis	TM 6262	NWC of Peach Ave/Herndon Ave	Single Family Development	185 SFDU
C5	City of Clovis	TM 6125	NWC of Peach Ave/Stuart Ave	Single Family Development	25 SFDU
C6	City of Clovis	PM 2022-002	NWC of Villa Ave/Sierra Ave	Single Family Development	4 SFDU
C7	City of Clovis	SPR 2015-002	North of Spruce Ave and West of Halifax Ave	Office/Warehouse	37.68 TSF
C8	City of Clovis	The Well Community Church	NWC of Clovis Ave/Nees Ave	Church Expansion	80 TSF
C9	City of Clovis	SPR 2008-016A2	NEC of Fairfax Ave/Palo Alto Ave	Office/Warehouse	4.488 TSF
C10	City of Clovis	SPR 2021-014	520 Park Creek	Warehouse	9.897 TSF
C11	City of Clovis	SPR 2022-005	NEC of Pollasky Ave/Park Creek Dr	Office/Warehouse	19 TSF
C12	City of Clovis	SPR 2022-002	NEC of Pollasky Ave/Park Creek Dr	Office/Warehouse	14.218 TSF
C13	City of Clovis	603 & 623 Pollasky Avenue	NEC of Pollasky Ave/Park Creek Dr	Office/Warehouse	13.641 TSF
C14	City of Clovis	Landmark Common Civic Center North (CIP 15-03)	NEC of Clovis Ave/3rd Street	Mixed-use development consisting of approximately 67 TSF of community and office uses	30 TSF Senior Activity Center; 8.766 TSF Transit Center; 30 TSF Library.
C15	City of Clovis	Heritage Grove Specific Plan	North Clovis	Specific Plan	275 TSF Retail; 50 TSF Commercial/Office; 150 RM Hotel.
C16	City of Clovis	TM 6050 (TM 6328;TM 6329)	NEC of Clovis Ave/Shepherd Ave	Single-Family Dwelling Units	255 SFDU
C17	City of Clovis	TM 6343	NEC of Clovis Ave/Shepherd Ave	Single-Family Dwelling Units	590 SFDU
C18	City of Clovis	TM 6200 (TM6452; TM6292; TM6344;TM6342;TM6406)	On Shepherd Ave, between Clovis Ave and Sunnyside Ave	Single-Family Dwelling Units	576 SFDU
C19	City of Clovis	TM 6205 - Shepherd North	NEC of Shepherd Ave/Sunnyside Ave	Single-Family Dwelling Units	605 SFDU
C20	City of Clovis	TM 6263	South side of Teague Avenue near Purdue Avenue	Single-Family Dwelling Units	74 SFDU
C21	City of Clovis	TM 6268	SWC of Clovis Ave and Riordan Ave	Single-Family Dwelling Units	10 SFDU
C22	City of Clovis	TM 6284	South side of Teague Avenue near Purdue Ave	Single-Family Dwelling Units	74 SFDU
C23	City of Clovis	TM 6154	NWC of Fowler Aveand Teague Aven	Single-Family Dwelling Units	95 SFDU
C24	City of Clovis	TM 5550	1991 Trenton Ave	Single-Family Dwelling Units	31 SFDU
C25	City of Clovis	The Palms IS	NEC of Sunnyside Ave/Alluvial Ave	Multi-Family Dwelling Units	12 MFDU
C26	City of Clovis	Clovis Unified School District Fowler-Henderson Campus	SEC of Fowler Ave/Herndon Ave	Educational Institution	62 Employess; 170 Students; 50 Staff; 90 TSF Office; Future Admin Building.
C27	City of Clovis	SPR 2003-017A2	NWC of Armstrong Ave/Herndon Ave	Medical Office	7.02 TSF
C28	City of Clovis	SPR 2019-016	NEC of Armstrong Ave/Herndon Ave	VA Site - Current phase will be parking only, no building. Building will start 1-yr after parking is completed.	211 TSF
C29	City of Clovis	TM 6367	West of Temperance Ave and Ness Ave	Single-Family Dwelling Units	8 SFDU
C30	City of Clovis	SPR 2023-010	NWC of Temperance Ave/Alluvial Ave	Office /Warehouse	Admin building - 62 employees and 30 students; Online education building - 50 staff and 140 students; School district office - 90 k.s.f.
C31	City of Clovis	SPR 90-088A12	2755 Herndon Ave	Medical Hospital Expansion	150 Occupied Beds Hotel; 220.000 TSF Retail; 468.844 TSF Hospital; 354.392 TSF MOB; 100 Occupied Bed Assisted Living
C32	City of Clovis	SPR 2018-020	SEC of Herndon Ave/Coventry Ave	Assisted Living	150 Beds
C33	City of Clovis	SPR 2007-025A2	East of Temperance Ave and Coventry Ave	Office/Warehouse	3.373 TSF
C34	City of Clovis	TM 6438 - Vista Ranch	NEC of Temperance Ave/Shepherd Ave	Single-Family Dwelling Units and Multi-Family Dwelling Units	3149 MFDU; 137 SFDU; 200 TSF Commercial; 421 TSF Mini Storage; 3 Acres Public Park.
C35	City of Clovis	TM 6301	SEC of Temperance Ave/Powers Ave	Single-Family Dwelling Units	55 SFDU
C36	City of Clovis	TM 6209	SEC of Temperance Ave/Powers Ave	Single-Family Dwelling Units	71 SFDU
C37	City of Clovis	TM 6109	SEC of Temperance Ave/Powers Ave	Single-Family Dwelling Units	101 SFDU
C38	City of Clovis	TM 6339	South of Moody Ave and East of Locan Avenue	Single-Family Dwelling Units	37 SFDU

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Table 5.A - Approved and Pending Projects

ID	Jurisdiction	Project Name/Reference	Address/Location	Project Description	Project Units/Area/Other
C39	City of Clovis	TM 6239	East of Locan Avenue and South of Shepherd Ave .	Single-Family Dwelling Units	162 SFDU
C40	City of Clovis	TM 6277	NEC of Locan Ave/Teague Ave	Single-Family Dwelling Units	8 DU
C43	City of Clovis	TM 6332	NEC of Locan Ave/Teague Ave	Single-Family Dwelling Units	59 DU
C44	City of Clovis	TM 6389	NEC of Locan Ave/Teague Ave	Single-Family Dwelling Units	41 DU
C45	City of Clovis	Home Place Master Plan	NEC of Leonard Ave/Ashlan Ave	Single-Family Dwelling Units, Multi-Family Dwelling Units & Commercial Development	1174 SFDU; 132 MF.
F1	City of Fresno	McDonald Homes Plan	11479 N Willow Ave	Single-Family Dwelling Units in the Copper River Ranch Specific Plan	22 SFDU
F2	City of Fresno	New Single Family Residence	2442 Copper Ridge	Single-Family Dwelling Units in the Copper River Ranch Specific Plan	1 SFDU
F3	City of Fresno	Glasgow Project Custom 2-story	11215 Glasgow Dr	Single-Family Dwelling Units in the Copper River Ranch Specific Plan	1 SFDU
F4	City of Fresno	Lennar Townhomes Plan 1003	2814 E Teaberry Dr	Single-Family Dwelling Unit	1 SFDU
F5	City of Fresno	New Single Family Residence	1051 Turnberry Ave	Single-Family Dwelling Units	2 SFDU
F7	City of Fresno	Shell Building -The Row - Pad 1	2896 Shepherd Ave	Comercial - Shell Building (All Occupancies)	4.013 TSF
F8	City of Fresno	Shell Building -The Row - Pad 4	2884 E Shepherd Ave	Comercial - Shell Building (All Occupancies)	4.46 TSF
F9	City of Fresno	Shell Building - Park Crossing - Shops C	8472 Friant Rd	Comercial - Shell Building (All Occupancies)	1.684 TSF
F10	City of Fresno	Change of Occupancy_ Banyan Tree Retail	207 Sierra Ave	Comercial - Restaurants, Cafes, etc.	3 TSF
F11	City of Fresno	Shaw/Fresno Commercial	417 Shaw Ave	Comercial - Shell Building (All Occupancies)	2.24 TSF
F12	City of Fresno	MFR Avalon Complex	7521 Chestnut Ave	Multi-Family Dwelling Units	60 MFDU
F13	City of Fresno	Comm Misc.	2777 Nees Ave	Cross City Church - 8 EV Chargers & Site Lighting	2000811
F14	City of Fresno	New Residential Buildings	2808 Alluvial Ave	Multi-Family Dwelling Units	28 MFDU
F15	City of Fresno	MFR Building	7346 Willow Ave	Multi-Family Dwelling Units	176 MFDU
F16	City of Fresno	Community/Office Building	7355 Willow Ave	Industrial - Storage	8.362 TSF
T1	County of Fresno	Friant Ranch Specific Plan	Specific Plan 5 miles north of City of Fresno	Single-family and multi-family residential units, commercial village center, and recreation center.	2,270 Housing (55+ age restricted); 180 MFDU (non-age restricted); 16.1 acre Recreation and Fitness Complex and Community Lodge; 250 TSF commercial and retail space; 50 DU housing at the Village Center; 6 acre Depot Commercial.
T2	County of Fresno	CUP 3667 - Pete LoCastro CMEX	West of Friant Road	Quarry Site	349 acres Quarry Site; 122 acres Plant Site; Interplant haul of 225 truckloads per day (or 450 truck trips per day); 110 Existing Employees.
T3	County of Fresno	CUP 3666 -- Pete LoCastro CMEX	NWC of Friant Rd/Birkhead Ave	Plant Site	
T4	County of Fresno	VA 4155	SWC of Old Friant Rd/Birkhead Ave	Single-Family Dwelling Unit	1 SFDU
T5	County of Fresno	VA 3989	NEC of Old Friant Rd/Friant Road	Single-Family Dwelling Unit	1 SFDU
T6	County of Fresno	VA 4012	NWC of Auberry Road/Garonne Rd	Single-Family Dwelling Units	3 SFDU
T7	County of Fresno	DRA 4711	12329 N Armstrong Ave	Single-Family Dwelling Unit	1 SFDU
T8	County of Fresno	DRA 4668	9254 N Fowler Ave	Single-Family Dwelling Units	2 SFDU
T9	County of Fresno	DRA 4735	5388 E Shepherd Ave	Single-Family Dwelling Unit	1 SFDU

Notes:

SFDU = Single-Family Dwelling Units; MFDU = Multi-Family Dwelling Units; TSF = Thousand Square Feet; RM = Rooms.

6.0 PROJECT TRAFFIC

6.1 PROJECT TRIP GENERATION

The trip generation for the proposed project was developed using rates from the ITE *Trip Generation Manual* (11th Edition) for Land Use 210 – "Single-Family Detached Housing – Setting/Location General Urban/Suburban." Table 6.A summarizes the project trip generation. As shown in Table 6.A, the project is anticipated to generate 186 trips in the a.m. peak hour, 250 trips in the p.m. peak hour, and 2,508 daily trips.

6.2 PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

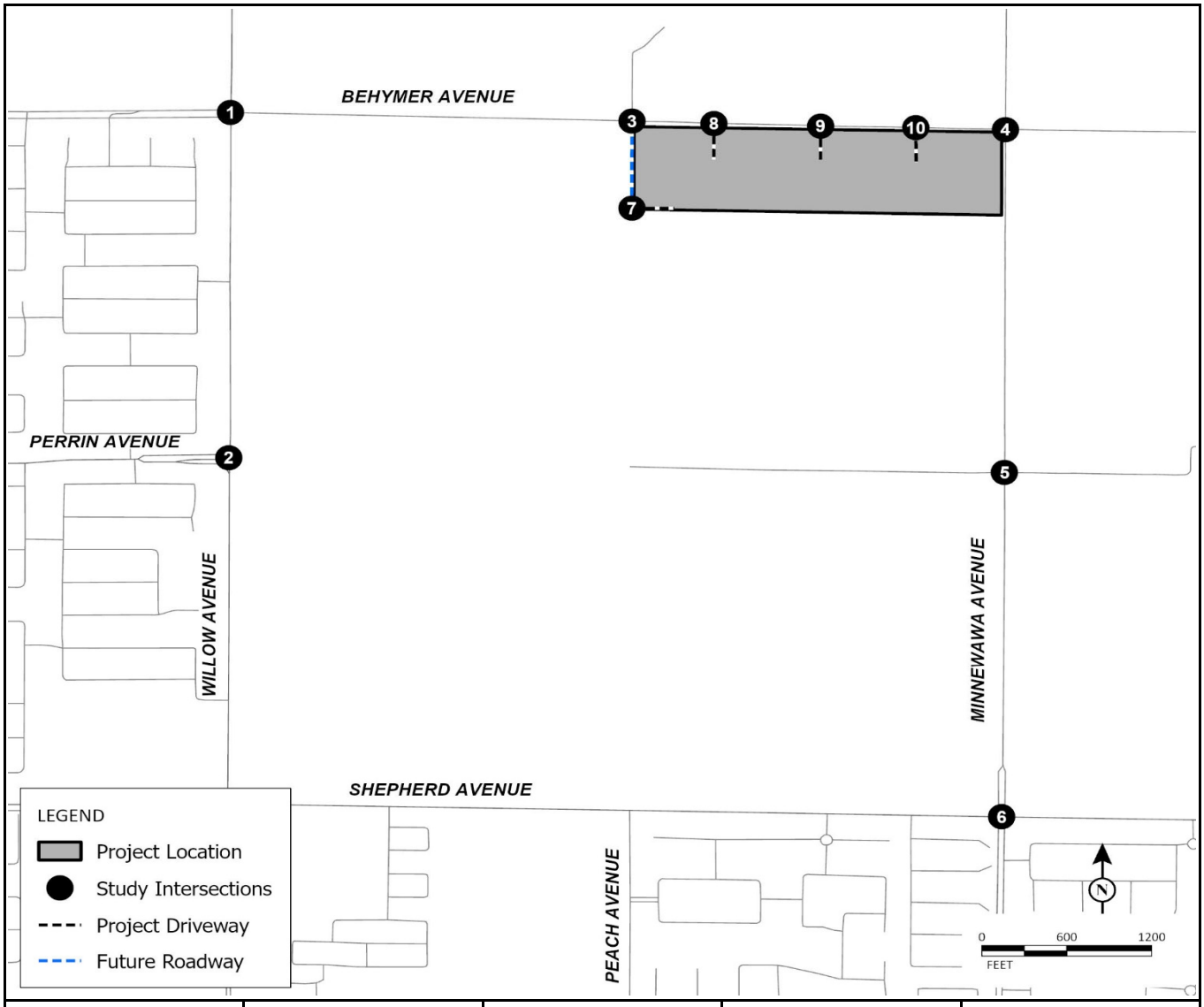
The project trip distribution was developed using select zone model runs obtained from the Fresno COG ABM. Appendix A includes the select zone model plots for the proposed project. This was further refined to reflect existing and future circulation network in the vicinity of the proposed project.

Currently, within the project vicinity, Peach Avenue, north of Shepherd Avenue, and Perrin Avenue east of Willow Avenue, are yet to be constructed. As such, it is estimated that this segment of Peach Avenue (between southern end of the project and Shepherd Avenue) along with Perrin Avenue east of Willow Avenue (between Willow Avenue and Peach Avenue) would be constructed along with other major developments within the area as part of the Heritage Grove Specific Plan Project envelop. However, since there is no determined timeline for these circulation improvements, two separate project trip distribution patterns were developed for the project, one for existing and near-term scenario, which reflects the existing circulation network in the project vicinity, and another for cumulative long-term scenario, which accounts for completion of Peach Avenue, Clovis Avenue and Perrin Avenue, among other circulation network improvements.

Additionally, as previously mentioned, upon completion of the adjacent residential projects south of the project limit, project trips may utilize the expanded circulation network to travel south and access Peach Avenue, Perrin Avenue or Minnewawa Avenue. However, as a conservative estimate since these developments are yet to be developed and the circulation network is not finalized, it was estimated that all project trips will be utilizing the four project driveways. This would provide a more conservative estimate in determination of operational efficiencies at the project driveways.

Figure 6-1 illustrates the existing and near-term project trip distribution. Figure 6-2 illustrates the cumulative scenario project trip distribution. The project trip assignment at the study area intersections is the product of the project trip generation and the corresponding trip distribution percentages. Figure 6-3 illustrates the existing and near-term conditions project trip assignment at the study area intersections. Figure 6-4 illustrates the cumulative conditions project trip assignment at the study area intersections.

6.3 LIST OF CHAPTER 6.0 FIGURES AND TABLES



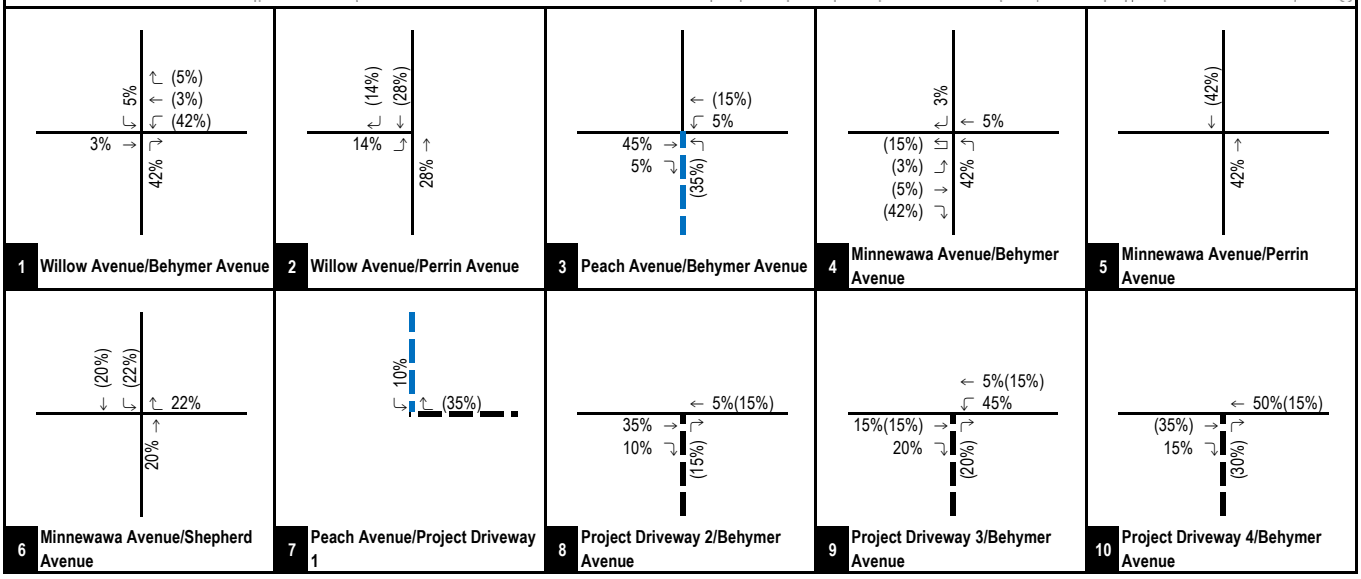


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FIGURE 6-1

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway
Future Roadway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Existing and Near-Term Project Trip Distribution

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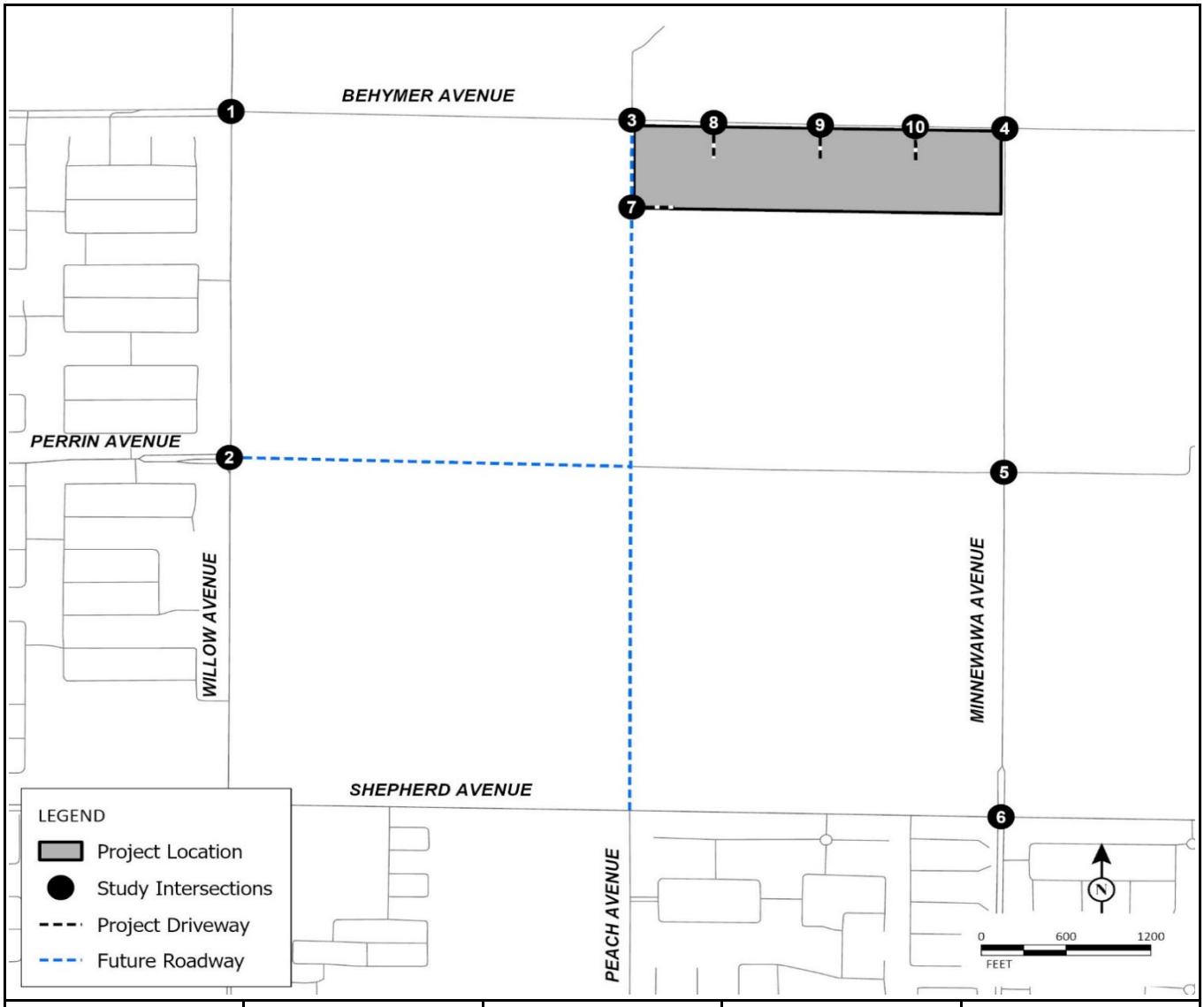

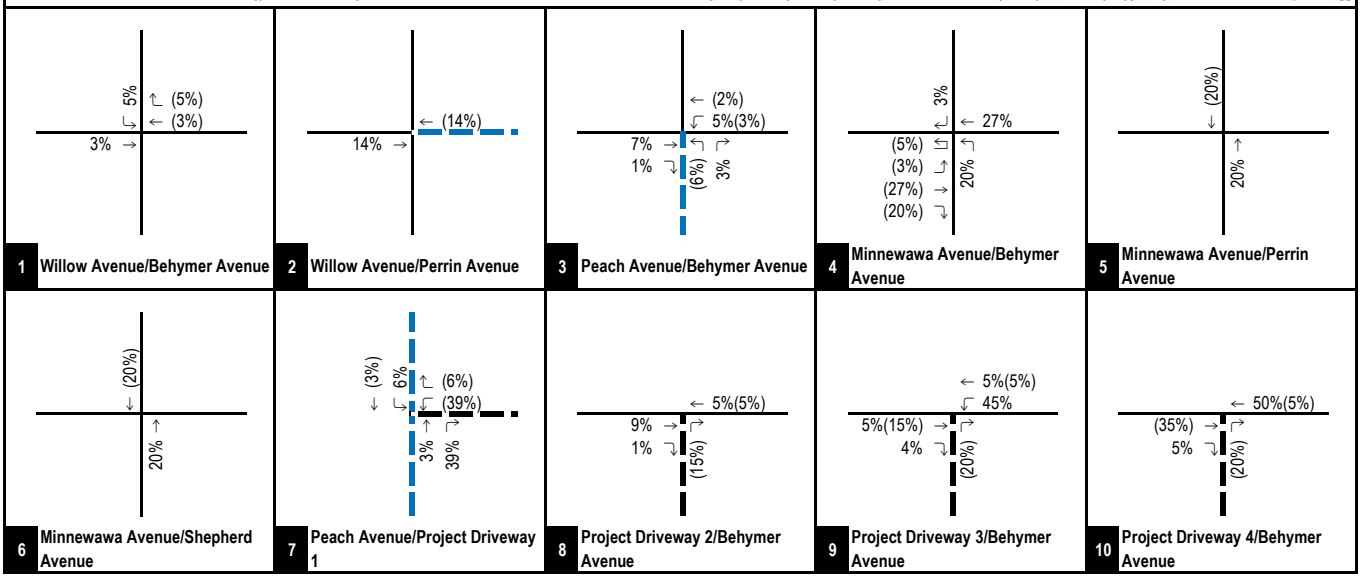

FIGURE 6-2

LSA

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway
Future Roadway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Cumulative Project Trip Distribution

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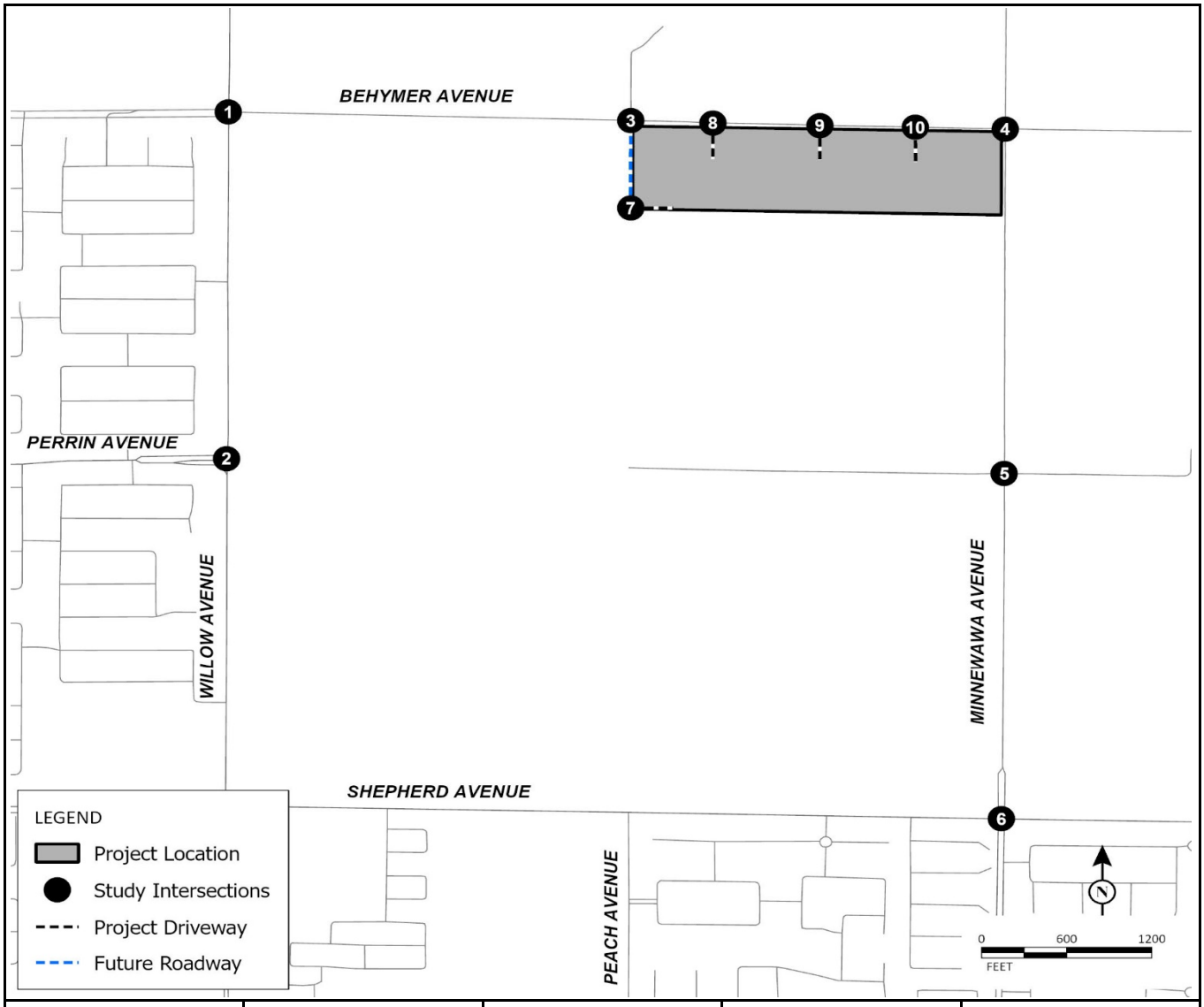

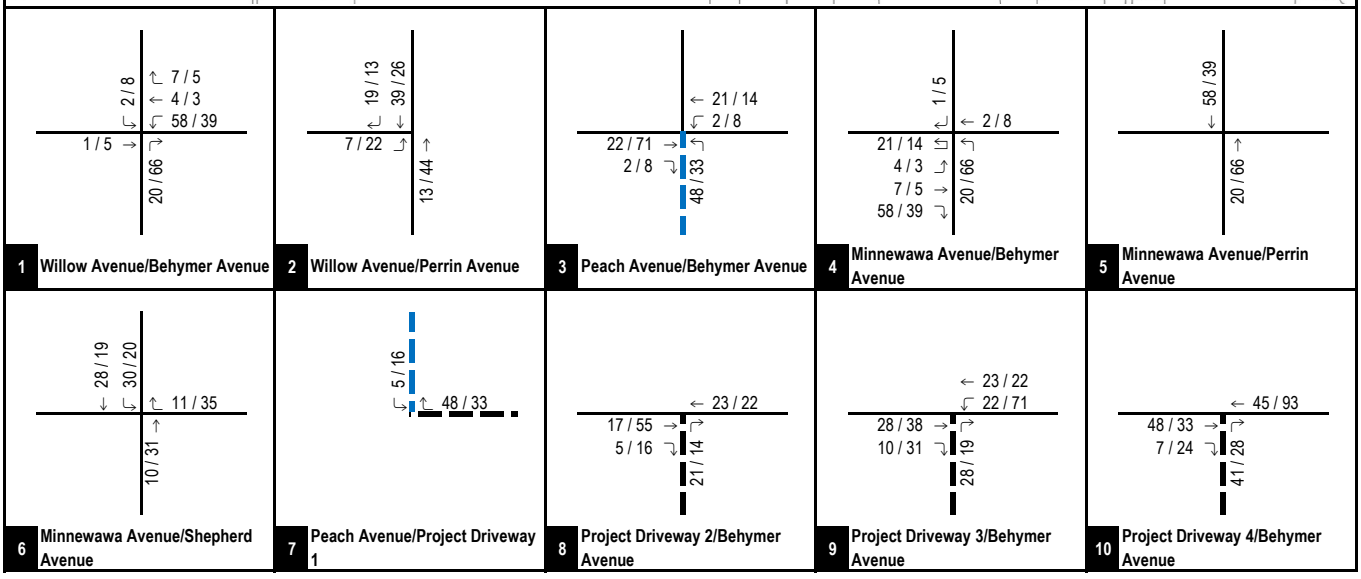

FIGURE 6-3

LSA

XX / YY
AM / PM Peak Hour Trips
Project Driveway
Future Roadway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Existing and Near-Term Project Trip Assignment

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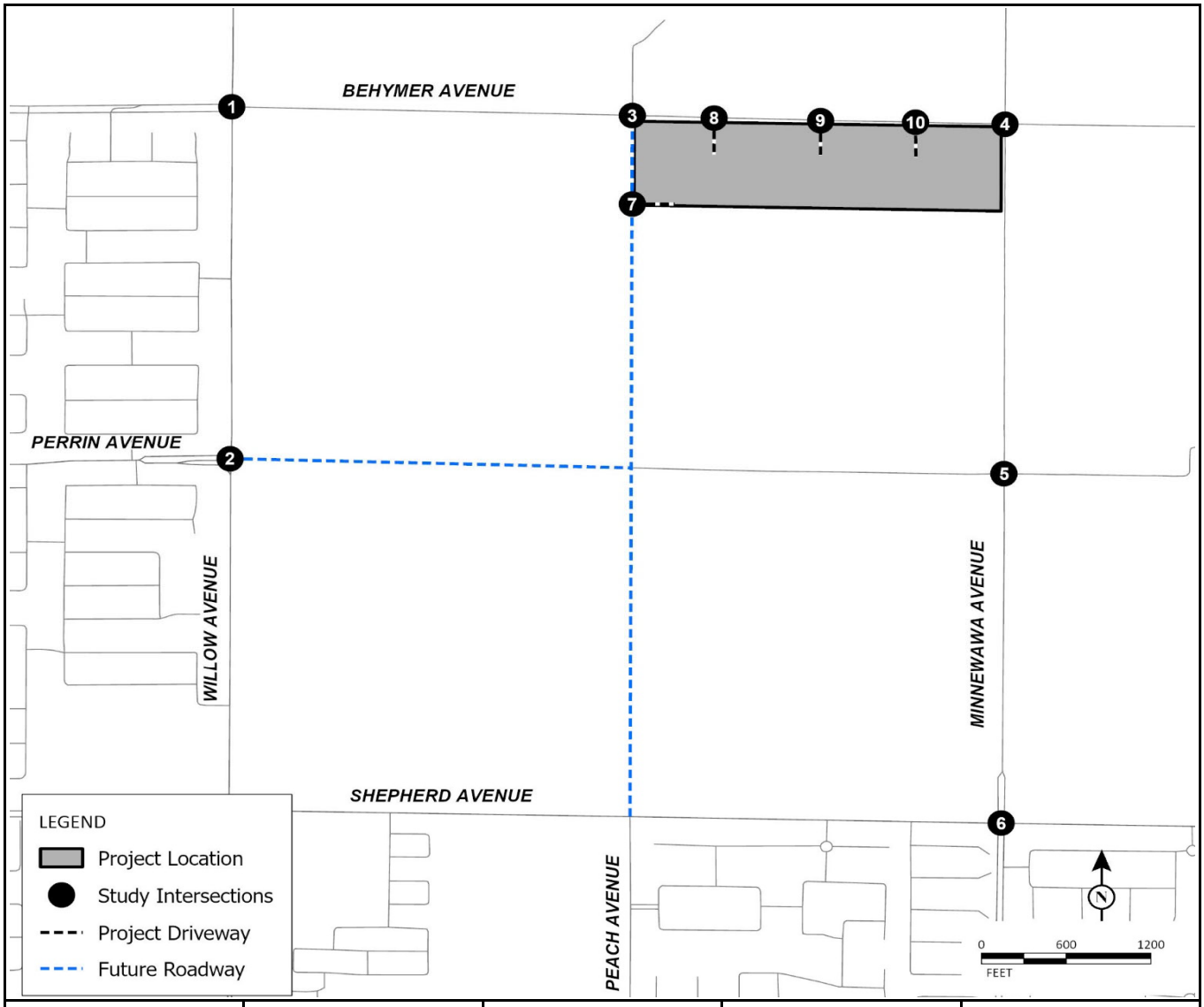

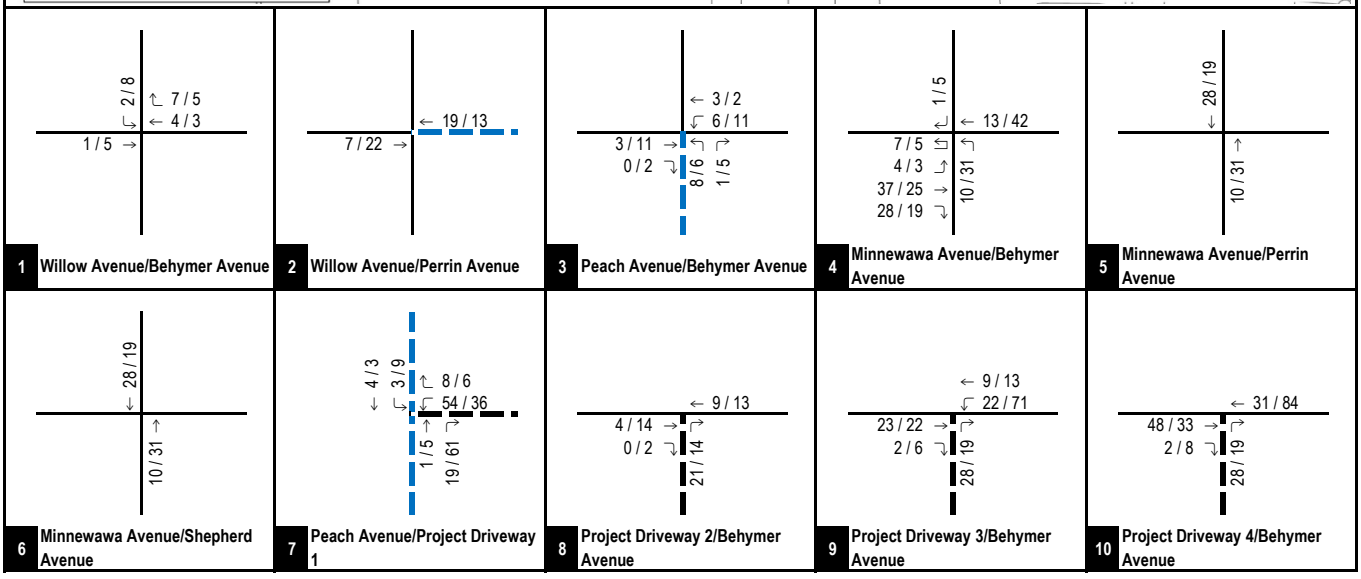

1 Willow Avenue/Behymer Avenue
2 Willow Avenue/Perrin Avenue
3 Peach Avenue/Behymer Avenue
4 Minnewawa Avenue/Behymer Avenue
5 Minnewawa Avenue/Perrin Avenue
6 Minnewawa Avenue/Shepherd Avenue
7 Peach Avenue/Project Driveway 1
8 Project Driveway 2/Behymer Avenue
9 Project Driveway 3/Behymer Avenue
10 Project Driveway 4/Behymer Avenue

LSA

FIGURE 6-4

XX / YY
AM / PM Peak Hour Trips
Project Driveway
Future Roadway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Cumulative Project Trip Assignment

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Table 6.A - Project Trip Generation

Land Use	Units	A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
Single-Family Detached Housing	266 DU							
Trips/Unit[1]		0.18	0.52	0.70	0.59	0.35	0.94	9.43
Trip Generation		**48**	**138**	**186**	**157**	**93**	**250**	**2,508**

Notes:

DU = Dwelling Units

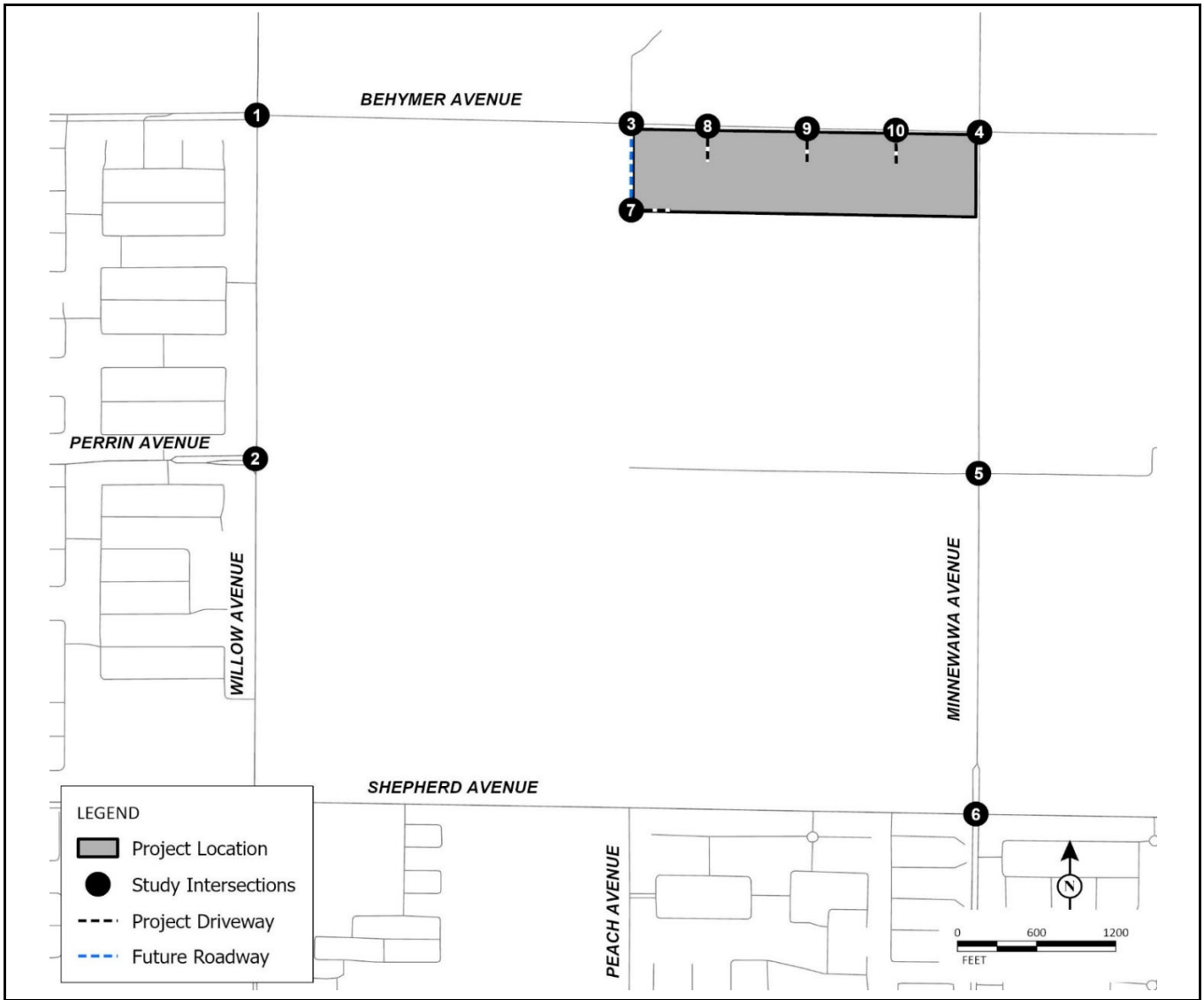
[1] Rates based on Land Use 210 - "Single-Family Detached Housing" from the Institute of Transportation Engineers (ITE)*Trip Generation Manual*, 11th Edition, Setting/Location - "General Urban/Suburban."

7.0 TRAFFIC VOLUMES FOR PLUS PROJECT SCENARIOS

Existing, near-term, and cumulative plus project traffic volumes were developed by adding project traffic to the traffic for the corresponding without project scenarios. Figures 7-1, 7-2 and 7-3 illustrate "plus project" peak-hour traffic volumes at study intersections under existing, near-term, and cumulative conditions, respectively.

Detailed volume development worksheets are included in Appendix D.

7.1 LIST OF CHAPTER 7.0 FIGURES



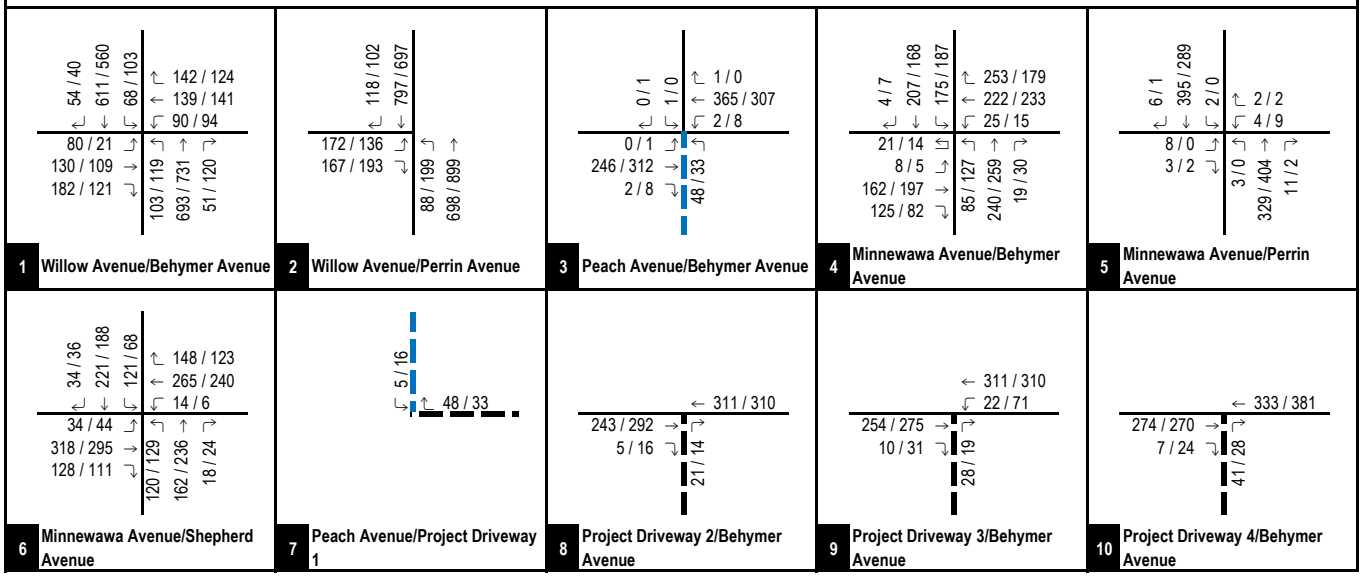
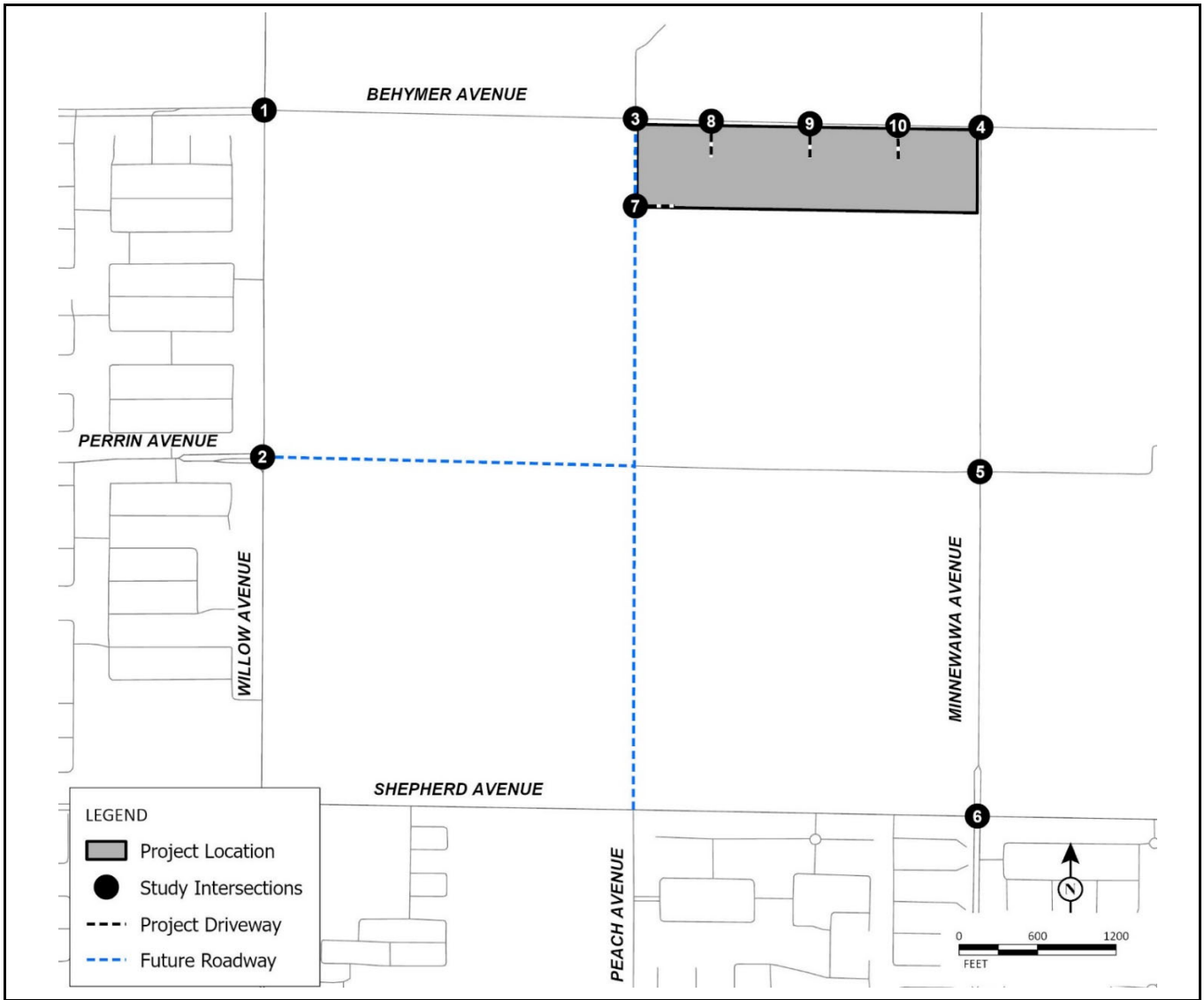


FIGURE 7-1

XXX / YYY
AM / PM Peak Hour Traffic Volumes

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Existing Plus Project Peak Hour Traffic Volumes



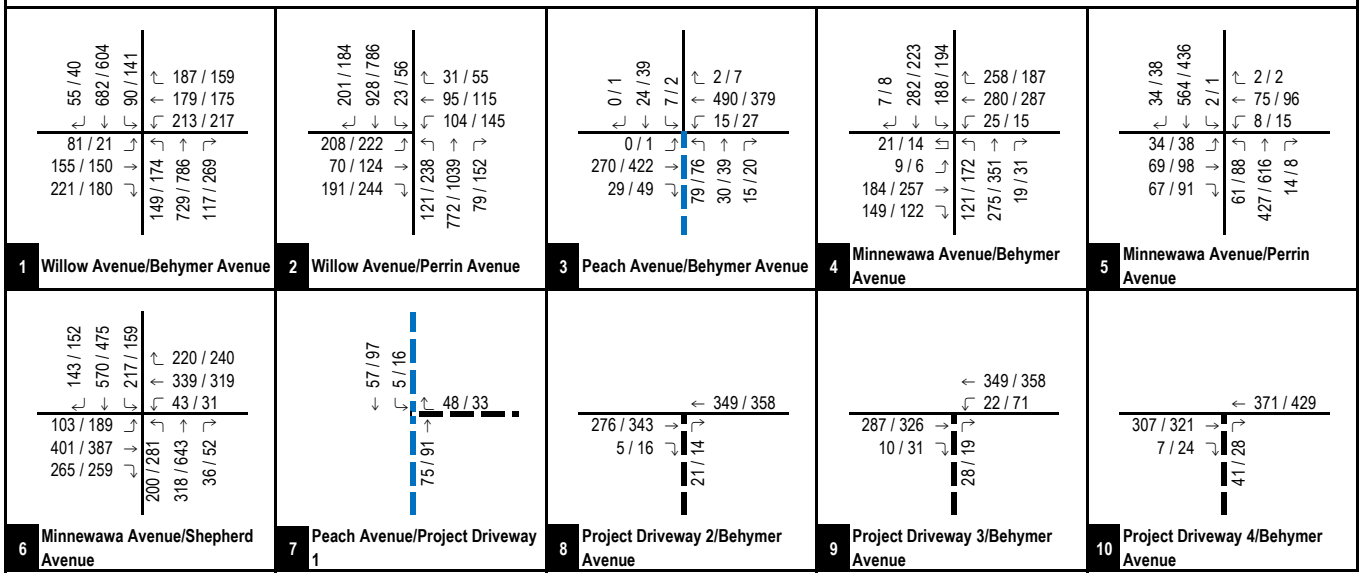


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FIGURE 7-2

XXXX / YYYY
AM / PM Peak Hour Traffic Volumes

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Near-Term (2028) Plus Project Peak Hour Traffic Volumes

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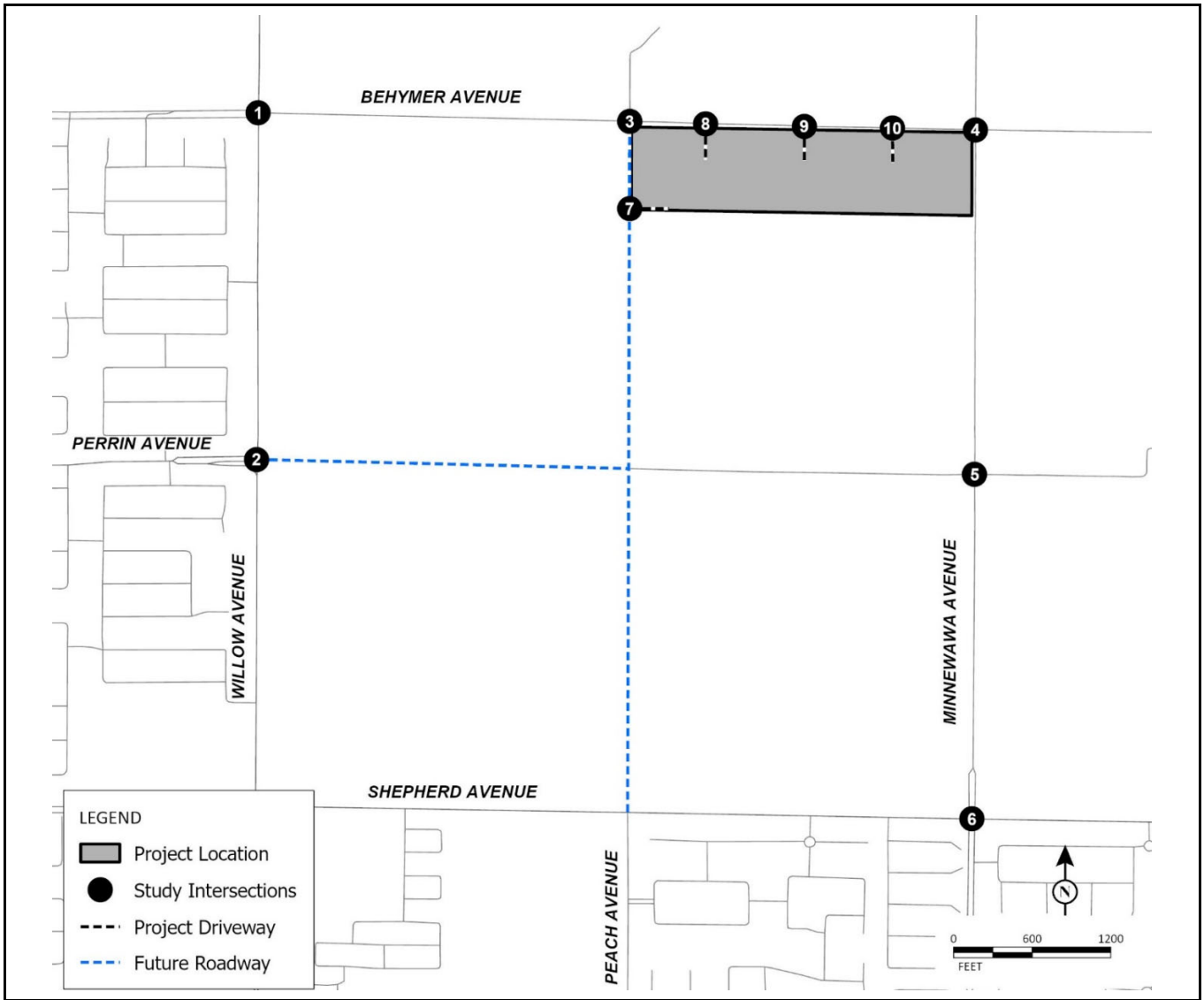
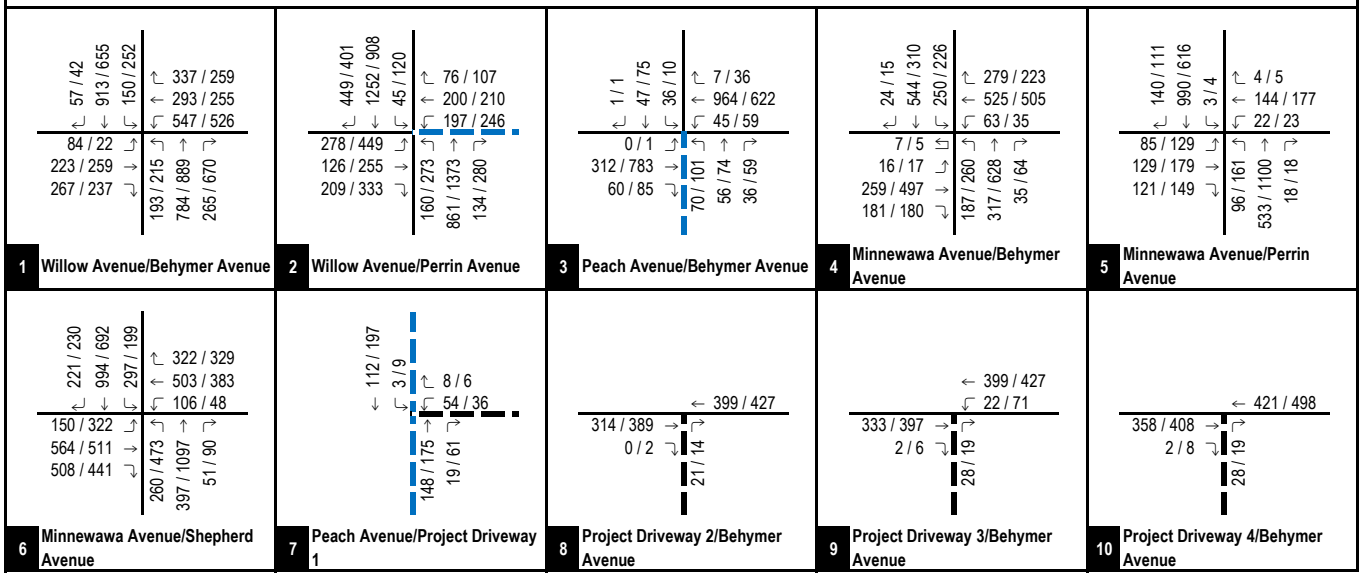




LSA

FIGURE 7-3

XXXX / YYYY
AM / PM Peak Hour Traffic Volumes

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Cumulative (2046) Plus Project Peak Hour Traffic Volumes

8.0 INTERSECTION LEVELS OF SERVICE

8.1 EXISTING LEVELS OF SERVICE

An intersection LOS analysis was conducted for existing conditions using the methodologies previously discussed. Existing signal timing sheets were obtained from the City for all signalized analysis intersections. The signal timing sheets are included in Appendix C. It should be noted that the existing signal timings were utilized to analyze traffic operations under near-term and cumulative (2046) scenarios as a conservative approach. Table 8.A summarizes the results of this analysis and shows that the following intersection operates at an unsatisfactory LOS under existing conditions:

- Minnewawa Avenue/Behymer Avenue (a.m. and p.m. peak hours)

All other study intersections operate at a satisfactory LOS under existing conditions.

8.2 EXISTING PLUS PROJECT LEVELS OF SERVICE

Previously referenced Figure 4-2 illustrates existing plus project study area intersection geometrics and traffic control. Analysis of the existing plus project scenario is provided to identify direct project-related operational deficiency if the project were to be built and in operation today. This scenario eliminates the effects of ambient growth and other approved/pending projects and deals specifically with operational deficiencies only due to the project traffic.

An intersection LOS analysis was conducted for existing plus project conditions using the methodologies previously discussed. Table 8.A summarizes the results of this analysis and shows that the following intersection is forecasted to operate at an unsatisfactory LOS under existing plus project conditions:

- Minnewawa Avenue/Behymer Avenue (a.m. and p.m. peak hours)

All other study intersections are forecasted to operate at a satisfactory LOS under existing plus project conditions.

It should be noted that this intersection is currently operating at a deficient LOS under existing conditions. As such, the project will be adding to the existing deficiencies at this intersection.

8.3 NEAR-TERM (2028) PLUS PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for near-term plus project conditions using the methodologies previously discussed. Table 8.B summarizes the results of this analysis and shows that the following intersections are forecasted to operate at an unsatisfactory LOS under near-term plus project conditions:

- Peach Avenue/Behymer Avenue (p.m. peak hour only)
- Minnewawa Avenue/Behymer Avenue (a.m. and p.m. peak hours)

- Minnewawa Avenue/Perrin Avenue (a.m. and p.m. peak hours)

Based on the operational deficiency criteria stated in Section 3.2 of this TIA, the project is forecasted to create an operational deficiency at these intersections. All other study intersections are forecasted to operate at a satisfactory LOS under near-term plus project conditions.

8.4 CUMULATIVE (2046) WITHOUT PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for cumulative without project conditions using the methodologies previously discussed. Table 8.C summarizes the results of this analysis and shows that the following intersections are forecasted to operate at an unsatisfactory LOS under cumulative without project conditions:

- Willow Avenue/Behymer Avenue (a.m. and p.m. peak hours)
- Willow Avenue/Perrin Avenue (p.m. peak hour only)
- Peach Avenue/Behymer Avenue (a.m. and p.m. peak hours)
- Minnewawa Avenue/ Behymer Avenue (a.m. peak hour only)
- Minnewawa Avenue/Perrin Avenue (a.m. and p.m. peak hours)
- Minnewawa Avenue/Shepherd Avenue (a.m. and p.m. peak hours)

All other study intersections are forecasted to operate at a satisfactory LOS under cumulative (2046) without project conditions.

8.5 CUMULATIVE (2046) PLUS PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for cumulative plus project conditions using the methodologies previously discussed. Table 8.C summarizes the results of this analysis and shows that the following intersections are forecasted to operate at an unsatisfactory LOS under cumulative plus project conditions:

- Willow Avenue/Behymer Avenue (a.m. and p.m. peak hours)
- Willow Avenue/Perrin Avenue (p.m. peak hour only)
- Peach Avenue/Behymer Avenue (a.m. and p.m. peak hours)
- Minnewawa Avenue/ Behymer Avenue (a.m. peak hour only)
- Minnewawa Avenue/Perrin Avenue (a.m. and p.m. peak hours)
- Minnewawa Avenue/Shepherd Avenue (a.m. and p.m. peak hours)

Based on the operational deficiency criteria stated in Section 3.2 of this TIA, the project is forecasted to create an operational deficiency at these intersections. All other study intersections are forecasted to operate at a satisfactory LOS under cumulative plus project conditions.

It should be noted that all these 6 intersections are forecast to operate at a deficient LOS under cumulative (2046) without project conditions. As such, the project will be adding to the forecasted deficiencies at these intersections.

Detailed intersection LOS worksheets are included in Appendix E.

8.6 LIST OF CHAPTER 8.0 TABLES

LSA

Table 8.A - Existing Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Without Project						Plus Project					
				A.M. Peak Hour		P.M. Peak Hour				A.M. Peak Hour		P.M. Peak Hour		
			Control	Delay (sec.)	LOS	Delay (sec.)	LOS		Control	Delay (sec.)	LOS	Delay (sec.)	LOS	
1 . Willow Avenue/Behymer Avenue	Clovis/Fresno	D	Signal	24.8	C	25.0	C		Signal	25.7	C	25.8	C	
2 . Willow Avenue/Perrin Avenue	Clovis/Fresno	D	Signal	12.1	B	12.9	B		Signal	12.3	B	13.1	B	
3 . Peach Avenue/Behymer Avenue	Clovis	D	OWSC	15.2	C	9.9	A		TWSC	18.7	C	16.0	C	
4 . Minnewawa Avenue/Behymer Avenue	Clovis	D	AWSC	59.5	**F**	*	56.1	**F**	*	AWSC	89.2	**F**	*	91.1	**F**	*
5 . Minnewawa Avenue/Perrin Avenue	Clovis	D	TWSC	14.4	B		13.6	B		TWSC	15.8	C		15.3	C	
6 . Minnewawa Avenue/Shepherd Avenue	Clovis	D	Signal	21.2	C		20.0	B		Signal	21.9	C		20.8	C	
7 . Peach Avenue/Project Driveway 1	Clovis	D	-	*Future Intersection*			*Future Intersection*			OWSC	*No Conflicting Movements*			*No Conflicting Movements*		
8 . Project Driveway 2/Behymer Avenue	Clovis	D	-	*Future Intersection*			*Future Intersection*			TWSC	9.8	A		10.1	B	
9 . Project Driveway 3/Behymer Avenue	Clovis	D	-	*Future Intersection*			*Future Intersection*			TWSC	10.0	A		10.1	B	
10 . Project Driveway 4/Behymer Avenue	Clovis	D	-	*Future Intersection*			*Future Intersection*			TWSC	10.2	B		10.1	B	

Notes:

AWSC= All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

Table 8.B - Near-Term (2028) Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Plus Project				
			Control	A.M. Peak Hour		P.M. Peak Hour	
				Delay (sec.)	LOS	Delay (sec.)	LOS
1 . Willow Avenue/Behymer Avenue	Clovis/Fresno	D	Signal	32.6	C	33.4	C
2 . Willow Avenue/Perrin Avenue	Clovis/Fresno	D	Signal	25.2	C	34.3	C
3 . Peach Avenue/Behymer Avenue	Clovis	D	TWSC	30.8	D	42.9	**E** *
4 . Minnewawa Avenue/Behymer Avenue	Clovis	D	AWSC	170.6	**F** *	>200	**F** *
5 . Minnewawa Avenue/Perrin Avenue	Clovis	D	TWSC	198.4	**F** *	>200	**F** *
6 . Minnewawa Avenue/Shepherd Avenue	Clovis	D	Signal	48.3	D	52.6	D
7 . Peach Avenue/Project Driveway 1	Clovis	D	OWSC	8.9	A	8.9	A
8 . Project Driveway 2/Behymer Avenue	Clovis	D	TWSC	10.0	A	10.5	B
9 . Project Driveway 3/Behymer Avenue	Clovis	D	TWSC	10.2	B	10.5	B
10 . Project Driveway 4/Behymer Avenue	Clovis	D	TWSC	10.5	B	10.5	B

Notes:

AWSC= All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

Table 8.C - Cumulative (2046) Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Without Project						Plus Project					
				A.M. Peak Hour			P.M. Peak Hour			A.M. Peak Hour			P.M. Peak Hour	
			Control	Delay (sec.)	LOS		Delay (sec.)	LOS	Control	Delay (sec.)	LOS		Delay (sec.)	LOS
1 . Willow Avenue/Behymer Avenue	Clovis/Fresno	D	Signal	137.3	**F**	*	160.1	**F** *	Signal	139.2	**F**	*	158.6	**F** *
2 . Willow Avenue/Perrin Avenue	Clovis/Fresno	D	Signal	34.4	C		57.5	**E** *	Signal	35.3	D		57.9	**E** *
3 . Peach Avenue/Behymer Avenue	Clovis	D	OWSC	>200	**F**	*	>200	**F** *	TWSC	>200	**F**	*	>200	**F** *
4 . Minnewawa Avenue/Behymer Avenue	Clovis	D	AWSC	>200	**F**	*	>200	**F** *	AWSC	>200	**F**	*	>200	**F** *
5 . Minnewawa Avenue/Perrin Avenue	Clovis	D	TWSC	>200	**F**	*	>200	**F** *	TWSC	>200	**F**	*	>200	**F** *
6 . Minnewawa Avenue/Shepherd Avenue	Clovis	D	Signal	175.8	**F**	*	>200	**F** *	Signal	183.7	**F**	*	>200	**F** *
7 . Peach Avenue/Project Driveway 1	Clovis	D	-	*Future Intersection*			*Future Intersection*		OWSC	10.6	B		11.7	B
8 . Project Driveway 2/Behymer Avenue	Clovis	D	-	*Future Intersection*			*Future Intersection*		TWSC	10.3	B		10.9	B
9 . Project Driveway 3/Behymer Avenue	Clovis	D	-	*Future Intersection*			*Future Intersection*		TWSC	10.5	B		11.0	B
10 . Project Driveway 4/Behymer Avenue	Clovis	D	-	*Future Intersection*			*Future Intersection*		TWSC	10.7	B		11.1	B

Notes:

AWSC= All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

9.0 SIGNAL WARRANT ANALYSIS

As recommended during the scoping agreement process, a signal warrant analysis was conducted at study intersections where installing a signal could be an appropriate and potential operational improvement measure. A Peak Hour Warrant (Warrant 3) was conducted for such locations. Peak hour approach volumes for the study intersections were examined to determine whether signalization is warranted per the criteria defined in the latest version California supplement of the *Manual on Uniform Traffic Control Devices* (CA-MUTCD). Following is a brief summary of signal warrant analysis:

9.1 PEACH AVENUE/BEHYMER AVENUE

Figures 9-1 and Figure 9-2 illustrate the Warrant 3 (Peak Hour) for this intersection under near-term and cumulative year conditions, respectively. As shown in these figures, this intersection does not meet the signal warrant under near-term conditions. However, it does meet the signal warrant under cumulative conditions. As such, a signal is warranted at this location.

9.2 MINNEWAWA AVENUE/BEHYMER AVENUE

Figures 9-3, Figure 9-4, and Figure 9-5 illustrate the Warrant 3 (Peak Hour) for this intersection under existing, near-term and cumulative conditions, respectively. As shown in these figures, this intersection does meet the signal warrant under existing, near-term and cumulative conditions. As such, a signal is warranted at this location.

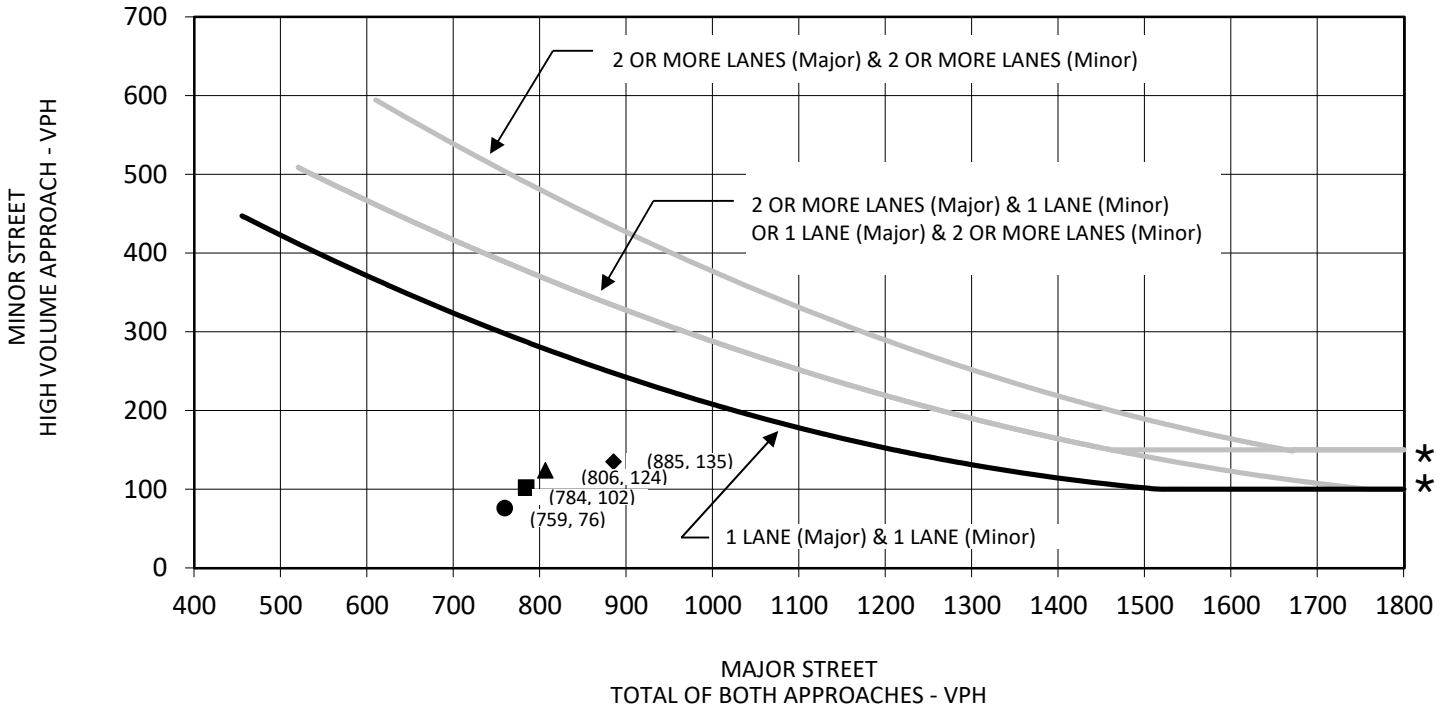
9.3 MINNEWAWA AVENUE/PERRIN AVENUE

Figures 9-6 and Figure 9-7 illustrate the Warrant 3 (Peak Hour) for this intersection under near-term and cumulative year conditions, respectively. As shown in these figures, this intersection does meet the signal warrant under near-term and cumulative year conditions. As such, a signal is warranted at this location.

9.4 LIST OF CHAPTER 9.0 FIGURES

- Figure 9-1: Warrant 3: Peak Hour – Peach Avenue/Behymer Avenue – Near-Term Conditions
- Figure 9-2: Warrant 3: Peak Hour – Peach Avenue/Behymer Avenue – Cumulative Conditions
- Figure 9-3: Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Existing Conditions
- Figure 9-4: Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Near-Term Conditions
- Figure 9-5: Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Cumulative Conditions
- Figure 9-6: Warrant 3: Peak Hour – Minnewawa Avenue/Perrin Avenue – Near-Term Conditions
- Figure 9-7: Warrant 3: Peak Hour – Minnewawa Avenue/Perrin Avenue – Cumulative Conditions

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

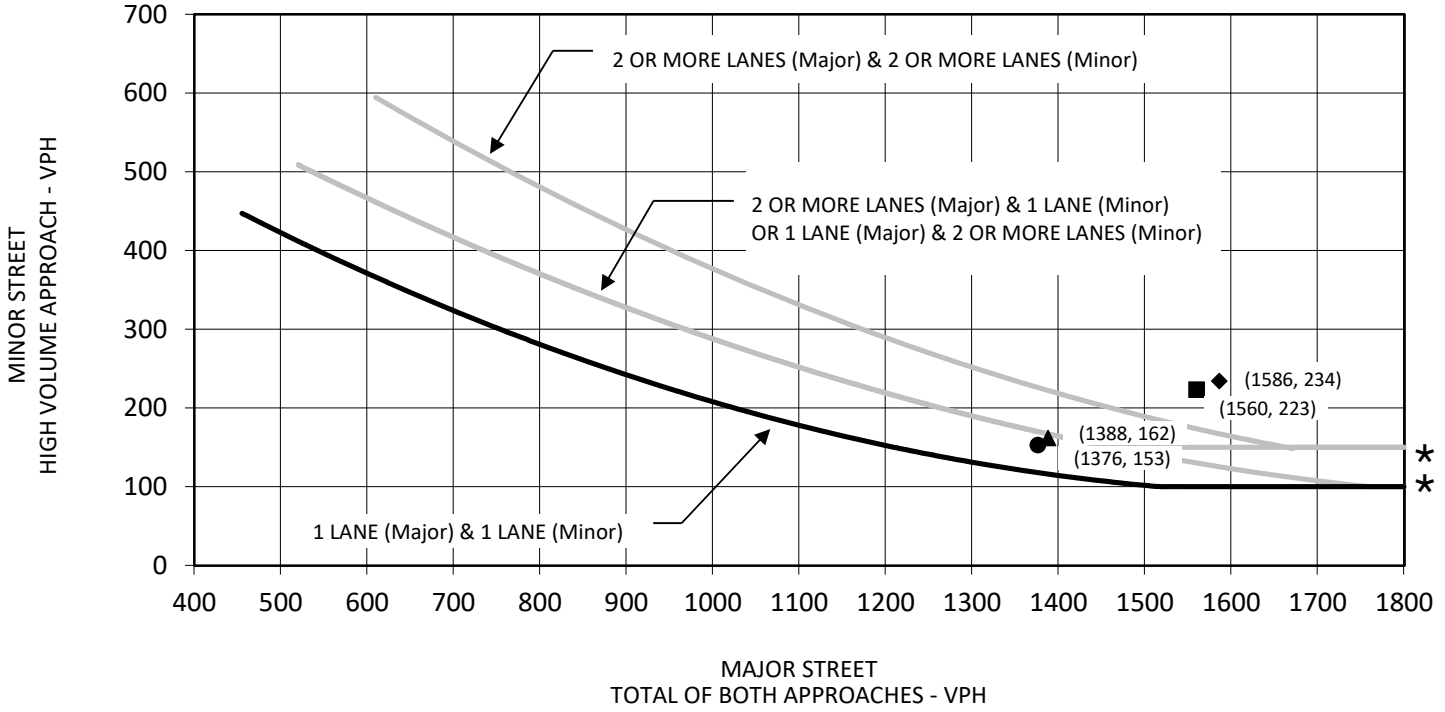
FIGURE 9-1

LSA

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

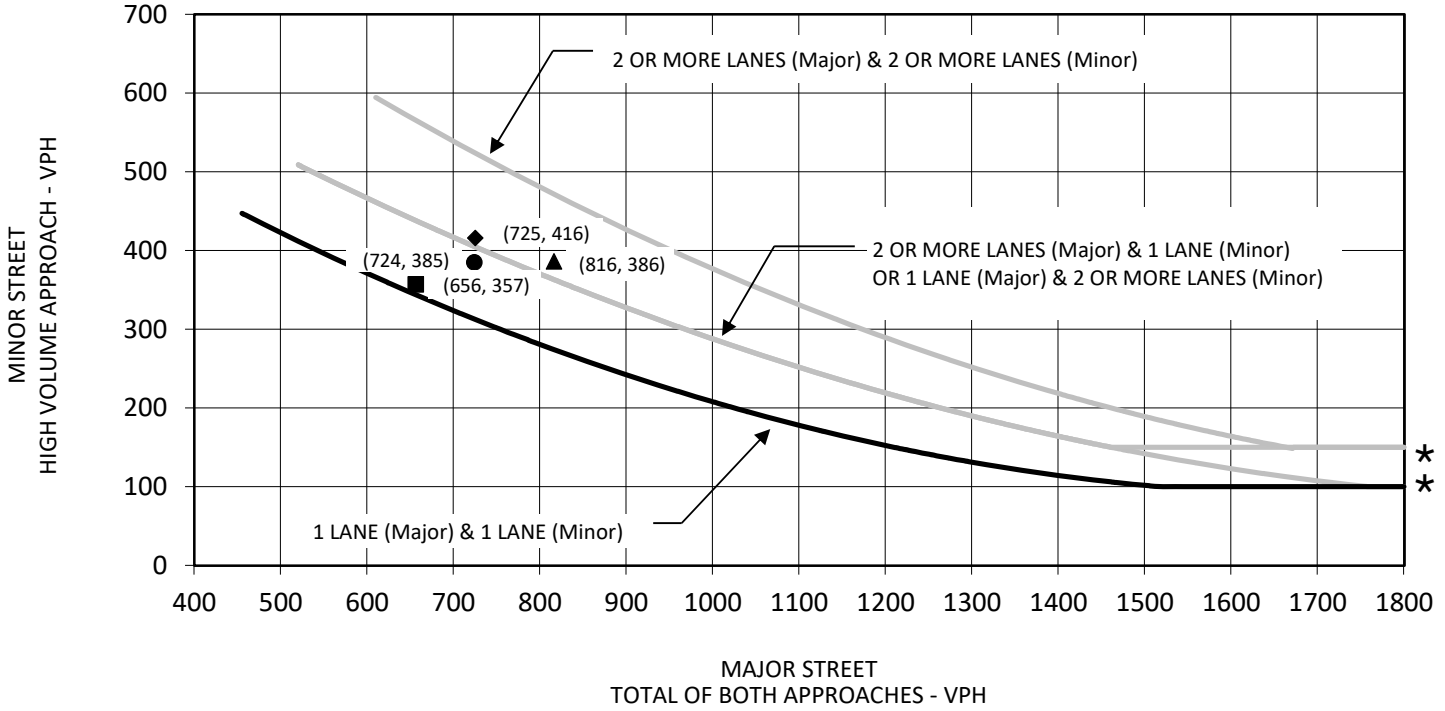
LSA

FIGURE 9-2

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

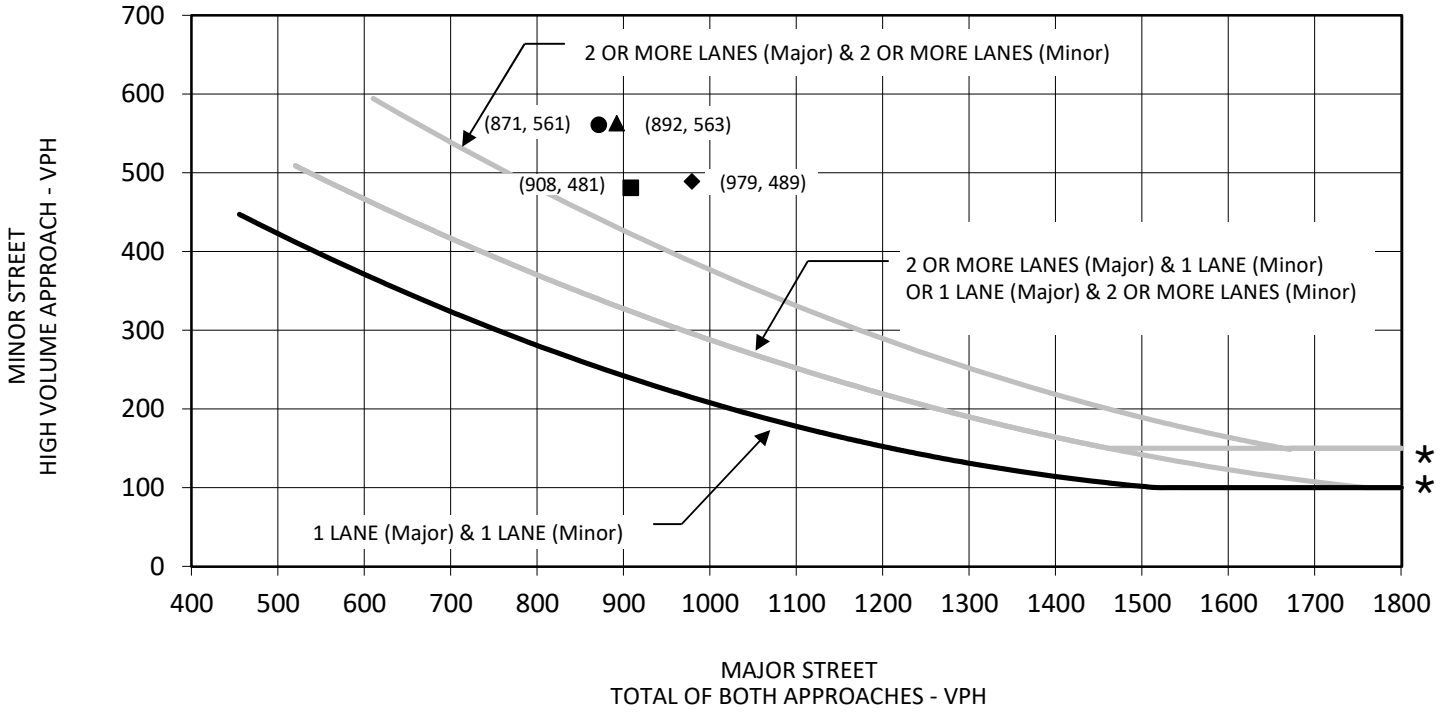
LSA

FIGURE 9-3

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

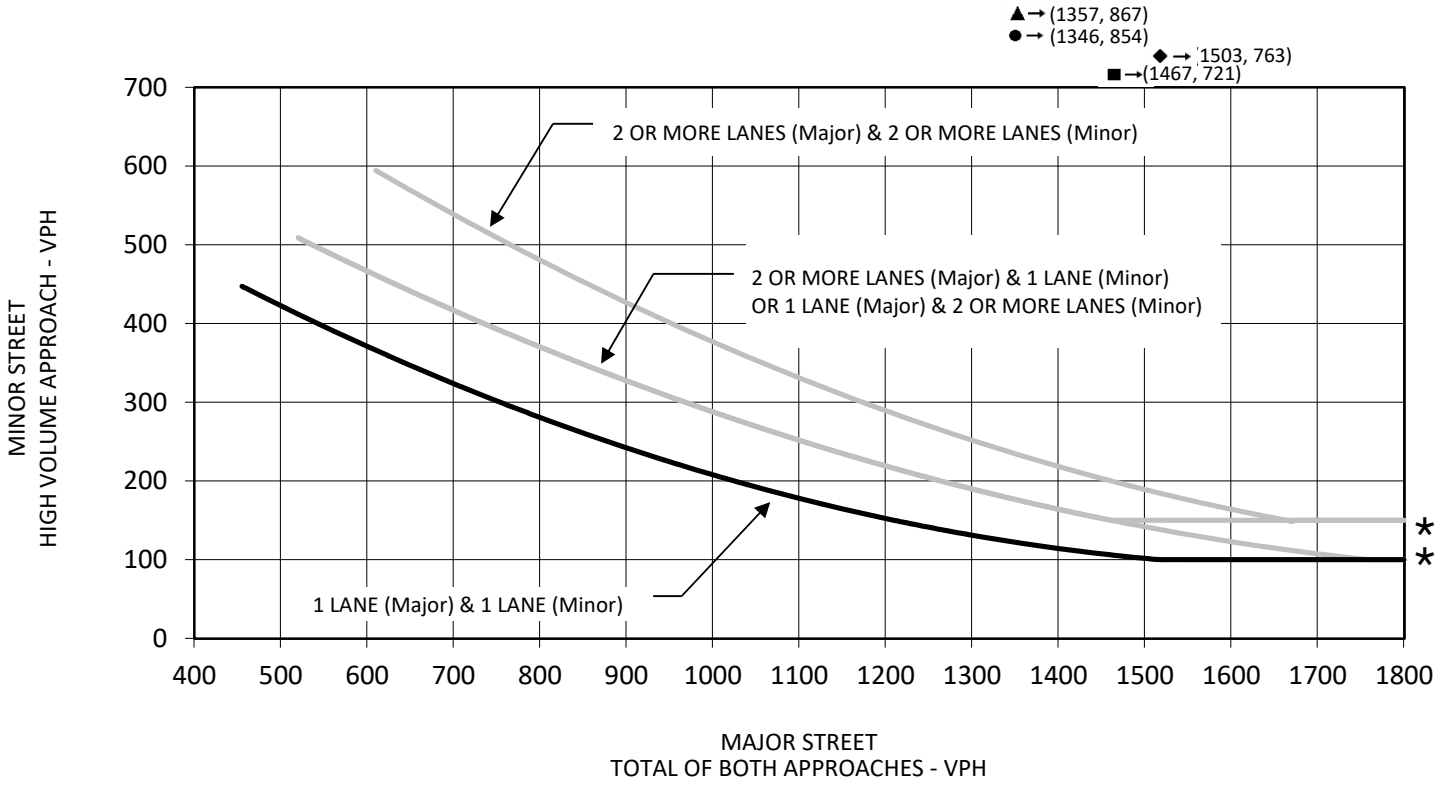
FIGURE 9-4

LSA

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

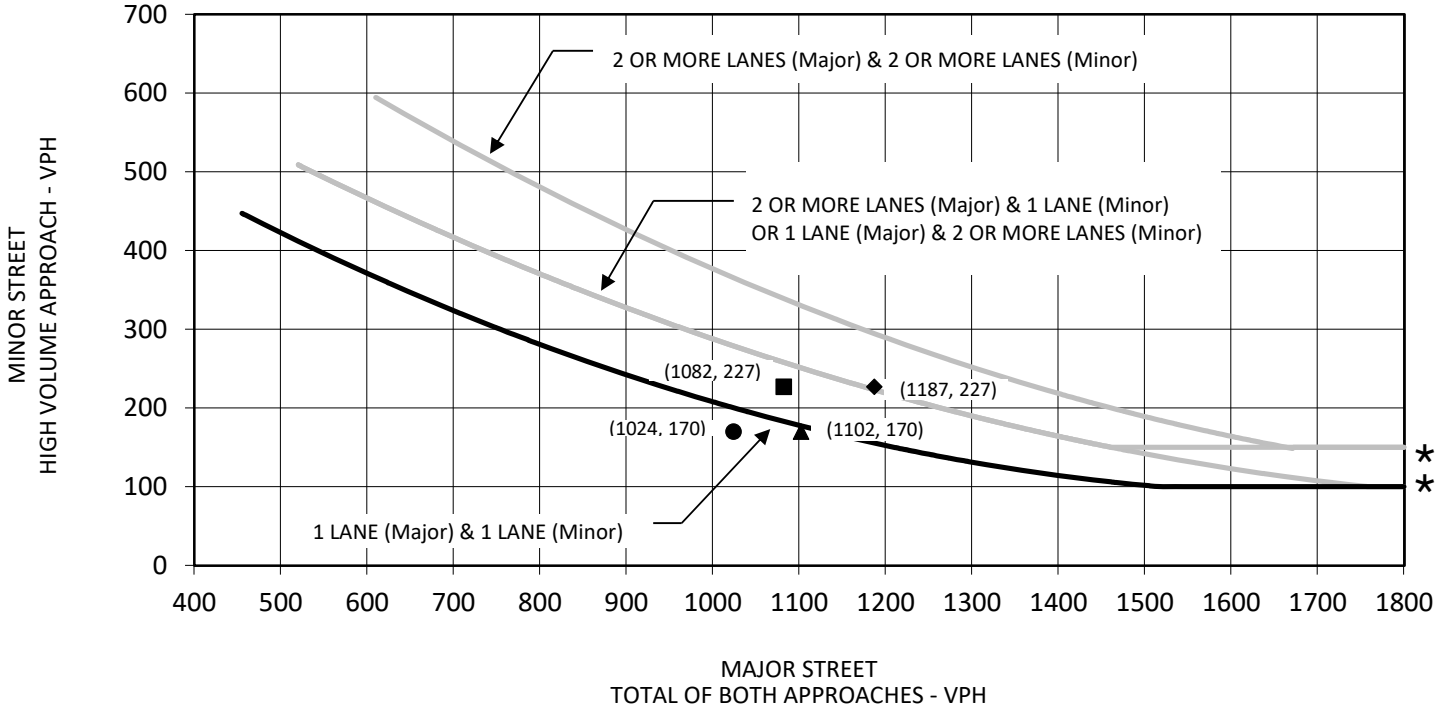
FIGURE 9-5

LSA

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

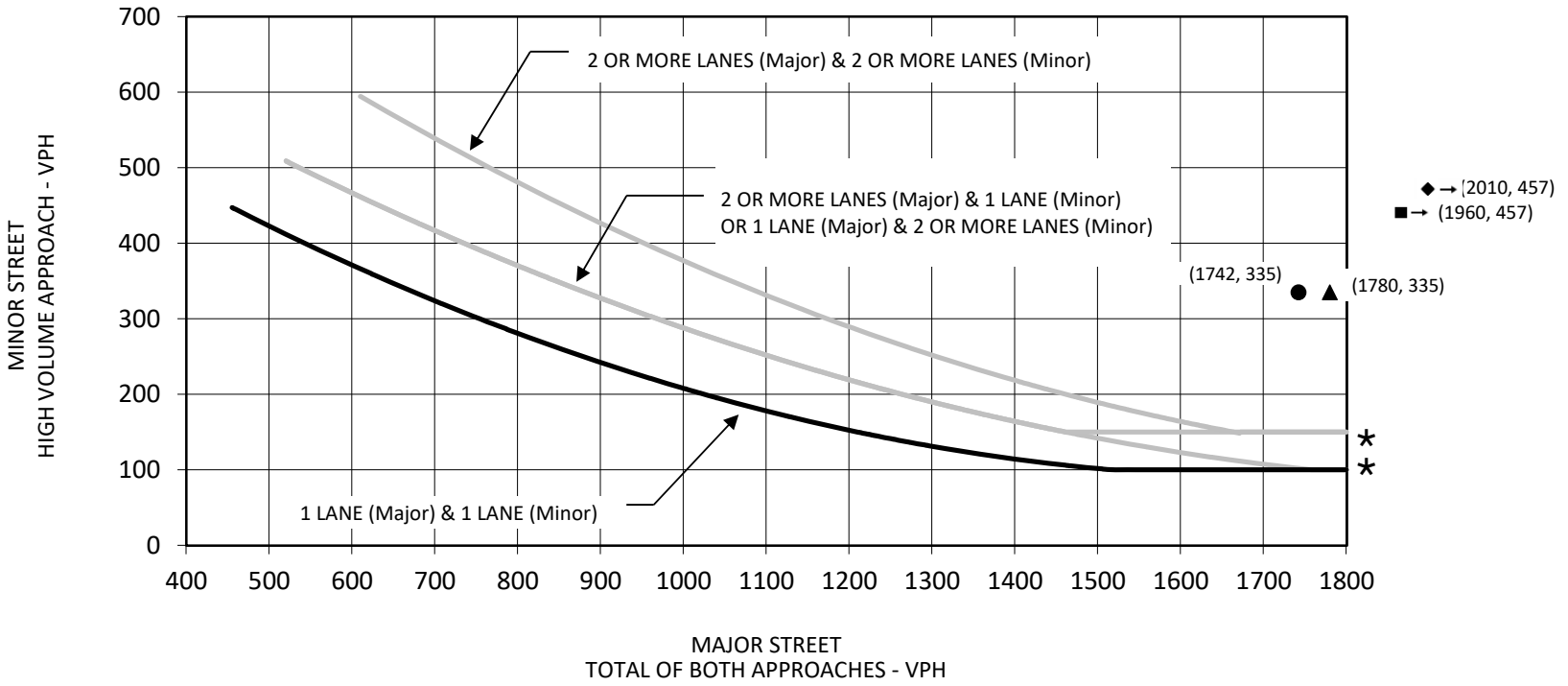
FIGURE 9-6

LSA

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

LSA

FIGURE 9-7

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

10.0 CIRCULATION IMPROVEMENTS AND FUNDING SOURCES

10.1 RECOMMENDED IMPROVEMENTS

Improvements have been recommended at study intersections where an operational deficiency has been identified based on the results of the LOS analysis. Table 10.A summarizes the recommended improvements for study intersections for all analysis scenarios. Tables 10.B, 10.C, and 10.D summarize the post-improvement intersection LOS under existing, near-term, and cumulative conditions, respectively. Detailed LOS worksheets are included in Appendix E. Figures 10-1, 10-2, and 10-3 illustrate the with recommended improvements intersection geometrics and traffic control under existing, near-term, and cumulative conditions, respectively.

It should be noted that peak-hour signal warrant analyses have been conducted for the intersections where a signal has been proposed. As such, a signal was only recommended as an improvement if it meets the peak-hour signal warrant.

10.2 FUNDING SOURCES AND MECHANISMS

Where there is a funding mechanism (fee program) for the recommended improvements, payment into the fee program would be considered sufficient project obligation to alleviate project-related operational deficiencies. At study locations where the addition of project traffic creates an operational deficiency (existing plus project conditions) and there is no funding mechanism in place, the project will be responsible for the implementation of the improvement. At locations where the project adds to or creates a forecast deficiency and there is no funding mechanism in place, the project is responsible for its fair-share payment.

10.2.1 City of Clovis Development Impact Fee Program and Operations

Several recommended improvements are part of City of Clovis operations or Clovis Development Impact Fee (DIF) Program. As such, improvements that proposes optimizing the signal timings or modifications of existing signal operations only would be implemented by City of Clovis operations. Additionally, improvements that are included in the City's DIF program, the project will be paying into this fee program for these improvements. The City currently have three mechanisms within its DIF program which will be responsible for these improvements. Following is a summary of these three mechanisms within the City's DIF program:

- **Traffic Signal Fee:** The Traffic Signal fee pays for the construction and financing of those certain planned traffic signals at the intersection of Major Streets and the interconnecting fiber optic system.
- **Outside Travel Lane Fee:** The Outside Travel Lane fee pays for the construction and financing of those certain planned travel lanes of a Major Street that are located between the frontage improvements and the Center Travel Lanes.
- **Center Travel Lane Fee:** The Center Travel Lane fee pays for the construction and financing of those certain planned travel lanes of a Major Street that are located within the median area. The fee also includes the adjacent travel lane on roads with 4 lanes or less, or the 2 adjacent lanes on 6-lane roads.

10.2.2 Fresno County Regional Transportation Mitigation Fee Program

The Fresno County Regional Transportation Mitigation Fee (RTMF) was created to fulfill one of the terms of the Measure 'C' Extension ballot measure, which was approved by Fresno County voters in 2006. The RTMF became effective on January 1, 2010. The RTMF is "intended to ensure that future development contributes to its fair share towards the cost of infrastructure to mitigate the cumulative, indirect regional transportation impacts of new growth in a manner consistent with the provisions of the State of California Mitigation Fee Act". The fees help fund improvements needed to maintain the target level of service in the face of higher traffic volumes brought on by new developments. As such, any new development within Fresno County, including developments within the City are required to pay the RTMF fee based on the adopted fee structure. The project will also be paying the RTMF fee which will help fund improvements and maintenance of the regional roadway network, specifically improvements under Caltrans jurisdiction. However, within the study area none of the intersections are under Caltrans jurisdiction.

10.2.3 Project Fair Share

In the absence of a fee program where the project has an impact on the roadway network, the project will pay its respective fair share for the proposed improvements. The project's fair share has been calculated based on project traffic as a percentage of total growth of existing traffic plus project volumes. However, none of the improvements require a fair share payment. Table 10.E summarizes the recommended improvement for the deficient intersections and the corresponding funding mechanism (Clovis Operations and Development Impact Fee).

10.3 LIST OF CHAPTER 10.0 FIGURES AND TABLES

- Figure 10-1: Existing Plus Project with Improvements Study Intersection Geometrics and Traffic Control
- Figure 10-2: Near-Term (2028) Plus Project with Improvements Study Intersection Geometrics and Traffic Control
- Figure 10-3: Cumulative (2046) Plus Project with Improvements Study Intersection Geometrics and Traffic Control
- Table 10.A: Recommended Improvements for Intersections
- Table 10.B: Existing Plus Project with Recommended Improvements Intersection Levels of Service
- Table 10.C: Near-Term (2028) Plus Project with Recommended Improvements Intersection Levels of Service
- Table 10.D: Cumulative (2046) Plus Project with Improvements with Recommended Improvements Intersection Levels of Service
- Table 10.E: Intersection Improvement Funding Mechanism

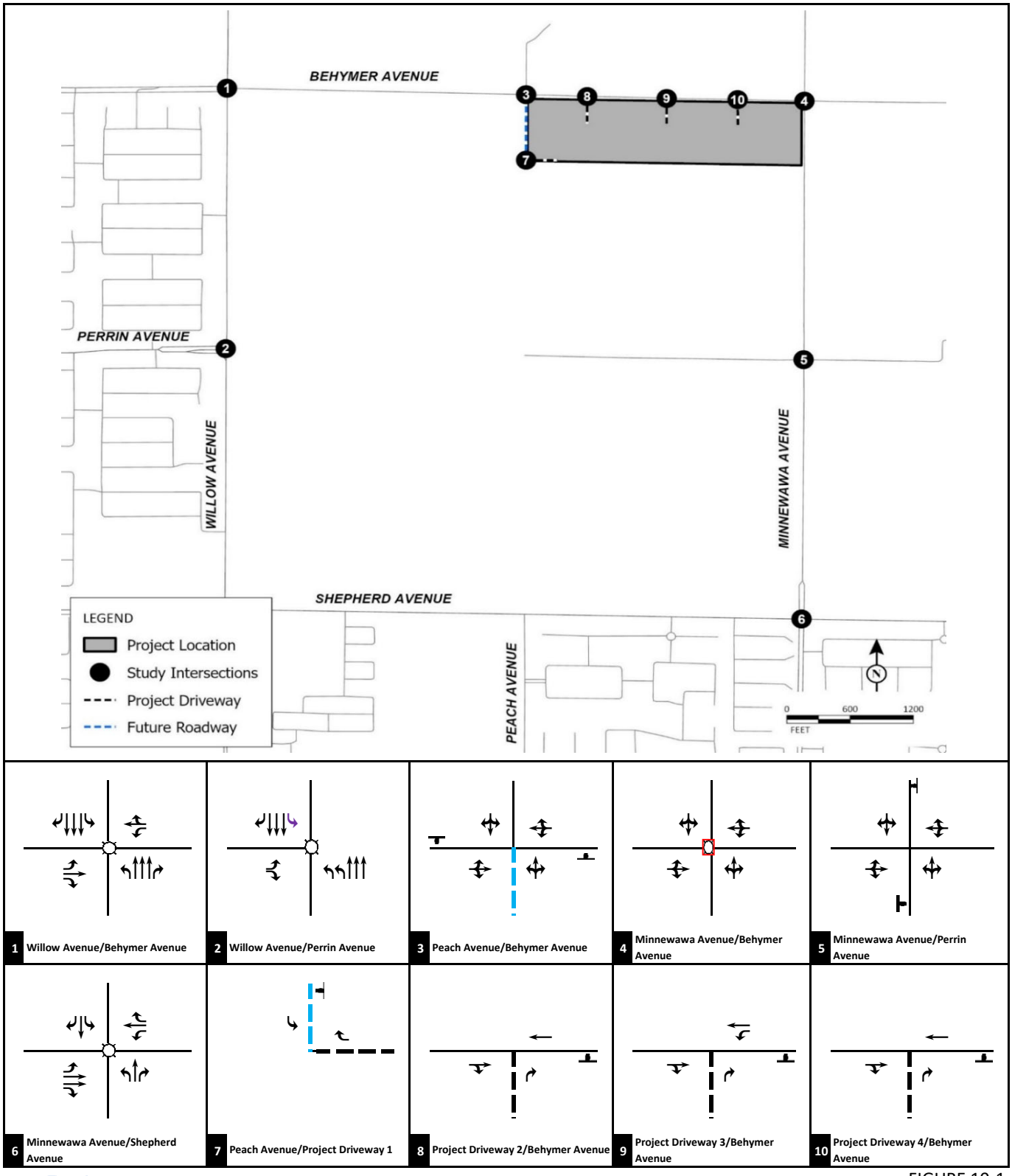


FIGURE 10-1

LSA

Legend

Signal
Stop Sign
Project Driveway
Future Driveway
U-Turn Movement
Install Traffic Signal
Recommended Improvements

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Existing Plus Project with Improvements Study Intersection Geometrics and Traffic Control

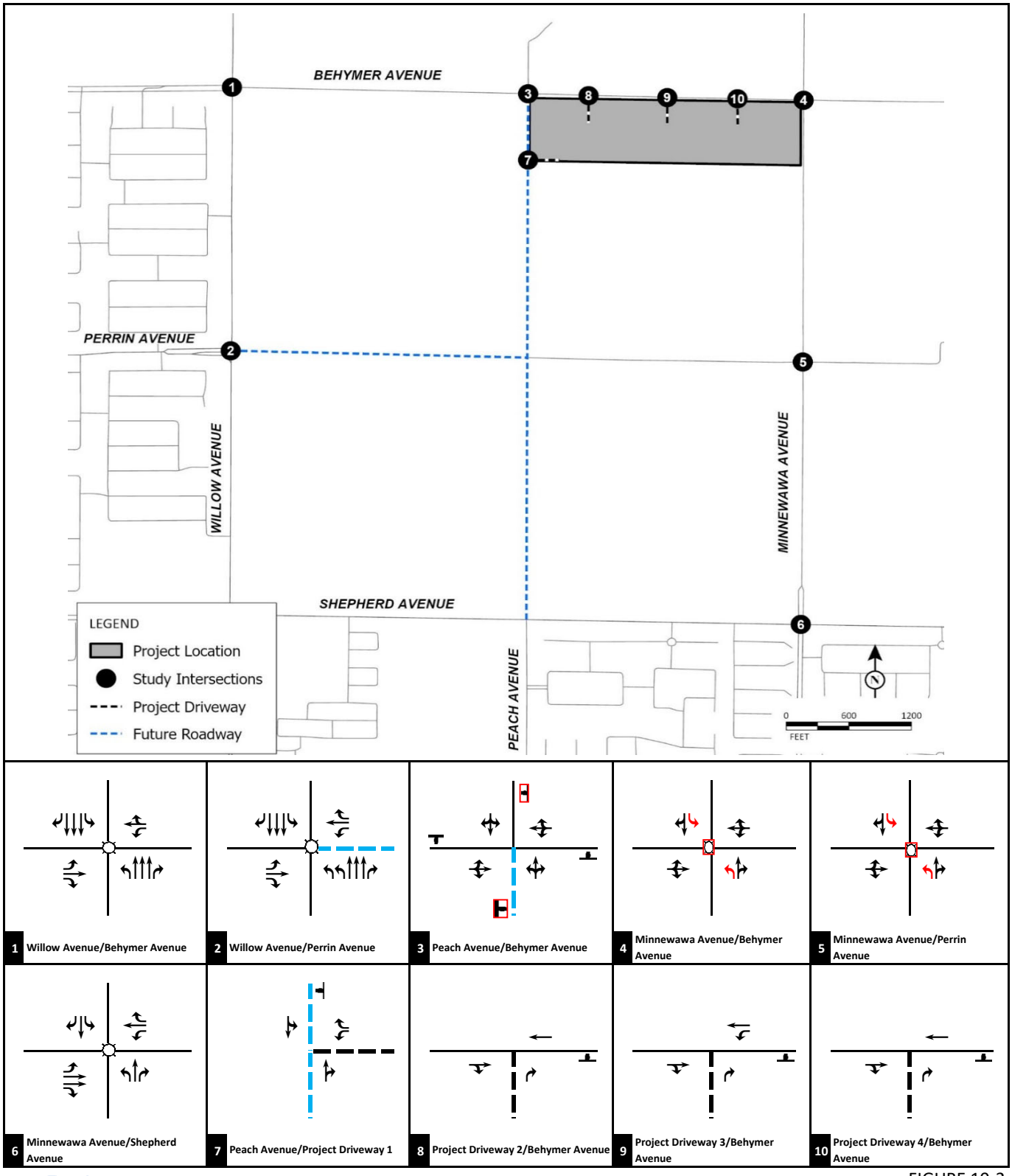


FIGURE 10-2

LSA

Legend

Signal

Stop Sign

Project Driveway

Future Driveway

Optimize Signal Timing

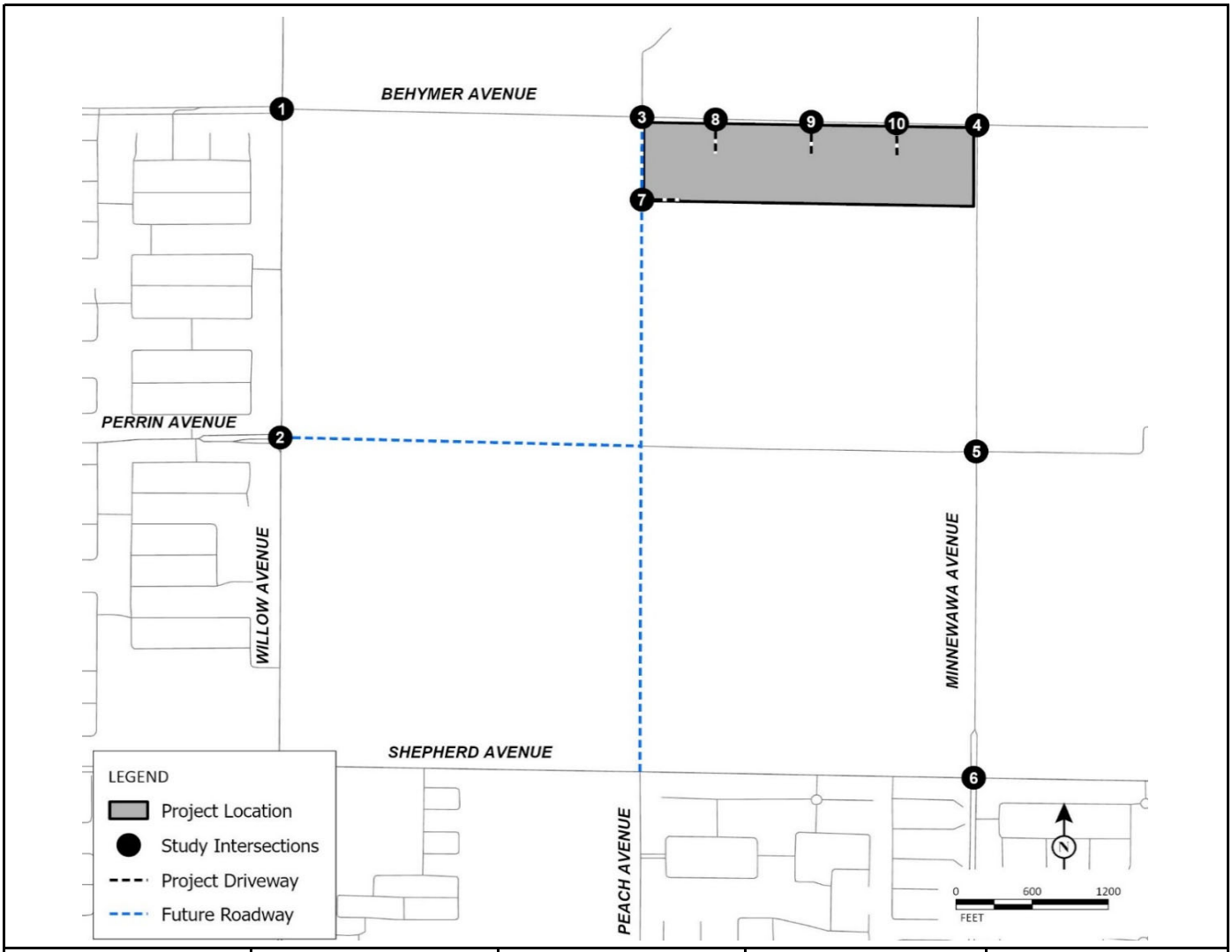
Install Traffic Signal

Recommended Improvements

De Young Properties Peach and Behymer Project

Transportation Impact Analysis

Near -Term (2028) Plus Project with Improvements Study Intersection Geometrics and Traffic Control



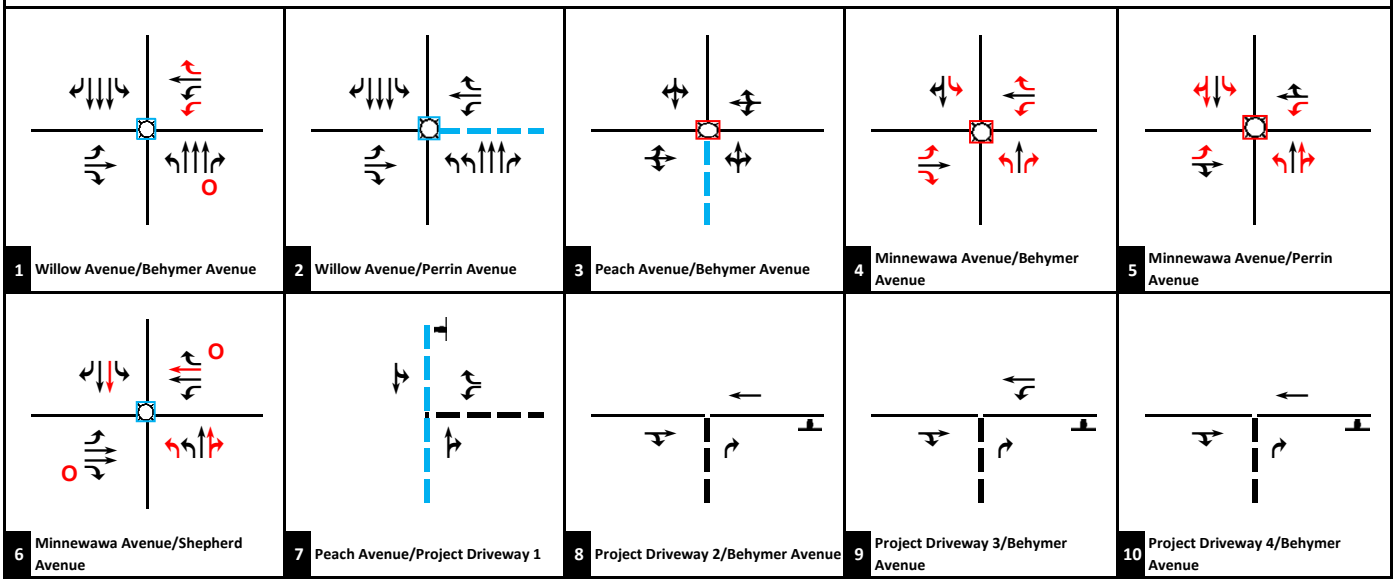


FIGURE 10-3

LSA

Legend

Signal
Stop Sign
Project Driveway
Future Driveway
Optimize Signal Timing
Install Traffic Signal
Recommended Improvements

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Cumulative (2046) Plus Project with Improvements Study Intersection Geometrics and Traffic Control

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LSA

Table 10.A - Recommended Improvements for Intersections

Intersection	Jurisdiction	Existing Plus Project Improvements	Near-Term (2028) Plus Project Improvements	Cumulative (2046) Plus Project Improvements
1 . Willow Avenue/Behymer Avenue	Clovis/Fresno			Add WBL, WBR, NBR overlap. Optimize signal timings.
2 . Willow Avenue/Perrin Avenue	Clovis/Fresno			Optimize signal timings.
3 . Peach Avenue/Behymer Avenue	Clovis/Fresno		Convert to four-way stop controlled.	Install a signal.
4 . Minnewawa Avenue/Behymer Avenue	Clovis/Fresno	Install a signal.	Install a signal with N/S protected phasing . Add NBL, SBL.	Install a signal with N/S protected phasing . Add NBL, continuous NBR, SBL, EBL,EBR, WBL, WBR.
5 . Minnewawa Avenue/Perrin Avenue	Clovis/Fresno		Install a signal with N/S protected phasing . Add NBL, SBL.	Install a signal with protected phasing. Add NBL, NBTR, SBL, SBTR, EBL, WBL.
6 . Minnewawa Avenue/Shepherd Avenue	Clovis/Fresno			Restripe NBR to NBTR. Add NBL, SBT,WBT. Add EBR and WBR overlap phasing. Optimize the signal timing.

Notes:

NB = Northbound, SB = Southbound, EB = Eastbound, WB = Westbound

L = Left, T = Through, R = Right

LSA

Table 10.B - Existing Plus Project with Recommended Improvements Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Plus Project Without Improvements						Plus Project With Improvements				
				A.M. Peak Hour		P.M. Peak Hour				A.M. Peak Hour		P.M. Peak Hour	
			Control	Delay (sec.)	LOS	Delay (sec.)	LOS		Control	Delay (sec.)	LOS	Delay (sec.)	LOS
4 . Minnewawa Avenue/Behymer Avenue	Clovis	D	AWSC	89.2	F	* 91.1	F	*	Signal	9.2	A	9.2	A

Notes:

OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

Table 10.C - Near-Term (2028) Plus Project with Recommended Improvements Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Plus Project Without Improvements						Plus Project With Improvements				
				A.M. Peak Hour			P.M. Peak Hour			A.M. Peak Hour		P.M. Peak Hour	
			Control	Delay (sec.)	LOS		Delay (sec.)	LOS	Control	Delay (sec.)	LOS	Delay (sec.)	LOS
3 . Peach Avenue/Behymer Avenue	Clovis	D	TWSC	30.8	D		42.9	**E**	* AWSC	17.0	C	17.3	C
4 . Minnewawa Avenue/Behymer Avenue	Clovis	D	AWSC	170.6	**F**	*	>200	**F**	* Signal	20.4	C	23.2	C
5 . Minnewawa Avenue/Perrin Avenue	Clovis	D	TWSC	198.4	**F**	*	>200	**F**	* Signal	12.5	B	13.3	B

Notes:

OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

Table 10.D - Cumulative (2046) Plus Project with Recommended Improvements Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Plus Project Without Improvements						Plus Project With Improvements				
				A.M. Peak Hour			P.M. Peak Hour			A.M. Peak Hour		P.M. Peak Hour	
			Control	Delay (sec.)	LOS		Delay (sec.)	LOS		Control	Delay (sec.)	LOS	Delay (sec.)	LOS
1 . Willow Avenue/Behymer Avenue	Clovis/Fresno	D	Signal	139.2	F	*	158.6	F	*	Signal	42.5	D	47.9	D
2 . Willow Avenue/Perrin Avenue	Clovis/Fresno	D	Signal	35.3	D		57.9	E	*	Signal	35.3	D	52.6	D
3 . Peach Avenue/Behymer Avenue	Clovis	D	TWSC	>200	F	*	>200	F	*	Signal	9.7	A	9.8	A
4 . Minnewawa Avenue/Behymer Avenue	Clovis	D	AWSC	>200	F	*	>200	F	*	Signal	21.4	C	44.6	D
5 . Minnewawa Avenue/Perrin Avenue	Clovis	D	TWSC	>200	F	*	>200	F	*	Signal	23.8	C	22.0	C
6 . Minnewawa Avenue/Shepherd Avenue	Clovis	D	Signal	183.7	F	*	>200	F	*	Signal	44.0	D	52.5	D

Notes:

OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

Table 10.E - Intersection Improvement Funding Mechanism

Intersection	Jurisdiction	Recommended Improvements	Funding Mechanism	Improvements Covered by Clovis Development Improvement Fee Program/Operations
1 . Willow Avenue/Behymer Avenue	Clovis/Fresno	Add WBL, WBR, NBR overlap. Optimize signal timings.	Clovis DIF	Add WBL, WBR, NBR overlap. Optimize signal timings.
2 . Willow Avenue/Perrin Avenue	Clovis/Fresno	Add EBL. Optimize signal timings.	Clovis DIF	Add EBL. Optimize signal timings.
3 Peach Avenue/Behymer Avenue	Clovis/Fresno	Install a signal.	Clovis DIF	Install a signal.
4 Minnewawa Avenue/Behymer Avenue	Clovis/Fresno	Install a signal with N/S protected phasing . Add NBL, continuous NBR, SBL, EBL,EBR, WBL, WBR.	Clovis DIF	Install a signal with N/S protected phasing . Add NBL, continuous NBR, SBL, EBL,EBR, WBL, WBR.
5 Minnewawa Avenue/Perrin Avenue	Clovis/Fresno	Install a signal with protected phasing. Add NBL, NBTR, SBL, SBTR, EBL, WBL.	Clovis DIF	Install a signal with protected phasing. Add NBL, NBTR, SBL, SBTR, EBL, WBL.
6 Minnewawa Avenue/Shepherd Avenue	Clovis/Fresno	Restripe NBR to NBTR. Add NBL, SBT,WBT. Add EBR and WBR overlap phasing. Optimize the signal timing.	Clovis Operations	Restripe NBR to NBTR. Add NBL, SBT,WBT. Add EBR and WBR overlap phasing. Optimize the signal timing.

Notes:

NB = Northbound, SB = Southbound, EB = Eastbound, WB = Westbound

L = Left, T = Through, R = Right

11.0 INTERSECTION QUEUING ANALYSIS

Tables 11.A, 11.B, and 11.C list the available turn-pocket storage lengths and summarize the 95th percentile back-of-queue lengths at the study intersections under existing, near-term (2028), and cumulative (2046) conditions. The queues for the signalized intersections have been reported from Synchro, while unsignalized intersections, the SimTraffic queues have been reported since Synchro does not appropriately report queues at unsignalized intersections.

Tables 11.D, 11.E, and 11.F lists the 95th percentile back-of-queue lengths at the study intersections for plus project and plus project with improvements conditions, under existing, near-term (2028), and cumulative (2046) scenarios. It also includes the recommended turn-pocket storage lengths at these intersections. The recommended turn pocket storage lengths have been calculated based on recommended lane geometry with improvements and availability of adequate right-of-way.

Detailed queuing worksheets are included in Appendix F.

11.1 LIST OF CHAPTER 11.0 TABLES

LSA

Table 11.A - Existing Queuing Analysis

Intersection	Movement	Existing Storage Length[1] (ft/ln)	Existing			
			Without Project[2]		Plus Project [2]	
			AM	PM	AM	PM
1 . Willow Avenue/Behymer Avenue	**NBL**	250	115	140	115	140
Signal	**NBR**	105	0	0	0	40
	SBL	250	85	115	85	125
	SBR	205	0	0	0	0
	EBL	230	100	40	100	40
	WBL	90	50	80	**105**	**115**
2 . Willow Avenue/Perrin Avenue	**2x NBL**	235	40	70	40	75
Signal	**NBR**	145	--	--	--	--
	SBL	250	0	0	0	0
	SBR	130	30	30	30	30
6 . Minnewawa Avenue/Shepherd Avenue	**NBL**	230	140	130	140	135
Signal	**SBL**	260	110	65	140	85
	SBR	15	0	0	0	0
	EBL	230	55	60	55	60
	EBR	45	**70**	**55**	**75**	**55**
	WBL	220	30	15	30	15
	WBR	60	**80**	40	**90**	**65**

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

Bold = Queue exceeds available storage.

1 Storage length for all movements obtained from Google Earth measurements.

2 All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

Table 11.B - Near-Term (2028) Queuing Analysis

Intersection	Movement	Existing Storage Length[1] (ft/ln)	Near Term Year (2028) Plus Project [2] AM	Near Term Year (2028) Plus Project [2] PM
1 . Willow Avenue/Behymer Avenue	**NBL**	250	170	240
Signal	**NBR**	105	35	100
	SBL	250	110	170
	SBR	205	0	0
	EBL	230	105	45
	WBL	90	**275**	**310**
2 . Willow Avenue/Perrin Avenue	**2x NBL**	235	80	110
Signal	**NBR**	145	35	30
	SBL	250	45	55
	SBR	130	75	40
	EBL	230	215	**245**
	WBL	100	**125**	**160**
	WBR	100	0	0
6 . Minnewawa Avenue/Shepherd Avenue	**NBL**	230	**285**	**455**
Signal	**SBL**	260	**325**	210
	SBR	15	**100**	**110**
	EBL	230	150	**250**
	EBR	45	**180**	**160**
	WBL	220	80	65
	WBR	60	**185**	**200**

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

Bold = Queue exceeds available storage.

1 Storage length for all movements obtained from Google Earth measurements.

2 All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

Table 11.C - Cumulative (2046) Queueing Analysis

Intersection	Movement	Existing Storage Length[1] (ft/ln)	Cumulative (2046)			
			Without Project[2]		Plus Project [2]	
			AM	PM	AM	PM
1 . Willow Avenue/Behymer Avenue	**NBL**	250	**275**	**345**	**275**	**345**
Signal	**NBR**	105	90	**530**	90	**535**
	SBL	250	190	**405**	195	**415**
	SBR	205	0	0	0	0
	EBL	230	115	45	115	45
	WBL	90	**885**	**920**	**885**	**915**
2 . Willow Avenue/Perrin Avenue	**2x NBL**	235	110	225	110	225
Signal	**NBR**	145	46	145	50	145
	SBL	250	75	215	75	215
	SBR	130	**225**	125	**225**	125
	EBL	230	**295**	**615**	**295**	**615**
	WBL	100	**220**	**300**	**220**	**300**
	WBR	100	15	45	15	45
6 . Minnewawa Avenue/Shepherd Avenue	**NBL**	230	**430**	**840**	**430**	**840**
Signal	**SBL**	260	**510**	**280**	**510**	**280**
	SBR	15	**190**	**195**	**190**	**195**
	EBL	230	210	**530**	210	**530**
	EBR	45	**560**	**340**	**560**	**340**
	WBL	220	155	85	155	85
	WBR	60	**325**	**300**	**325**	**300**

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

Bold = Queue exceeds available storage.

1 Storage length for all movements obtained from Google Earth measurements.

2 All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

Table 11.D - Existing Plus Project with Improvements Queuing Analysis

Intersection	Movement	Existing Storage Length[1] (ft/ln)	Plus Project Recommended Storage Length[1] (ft/ln)	Existing Plus Project with Improvements[2] AM	Existing Plus Project with Improvements[2] PM
1 . Willow Avenue/Behymer Avenue	**NBL**	250	300	115	140
Signal	**NBR**	105	455	0	40
	SBL	250	415	85	125
	SBR	205	205	0	0
	EBL	230	230	100	40
	WBL	90	355	105	115
2 . Willow Avenue/Perrin Avenue	**2x NBL**	235	235	40	75
Signal	**NBR**	145	145	--	--
	SBL	250	250	--	--
	SBR	130	225	30	30
	EBL	--	--	--	--
	EBR	--	--	--	--
6 . Minnewawa Avenue/Shepherd Avenue	**NBL**	230	230	145	135
Signal	**SBL**	260	425	145	85
	SBR	15	150	0	0
	EBL	230	500	60	60
	EBR	45	45	**75**	**55**
	WBL	220	220	30	15
	WBR	60	175	50	45

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

Bold = Queue exceeds available storage.

[1] Storage length for all movements obtained from Google Earth measurements.

[2] All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

Table 11.E - Near-Term (2028) Plus Project with Improvements Queuing Analysis

Intersection	Movement	Existing Storage Length[1] (ft/ln)	Plus Project Recommended Storage Length[1] (ft/ln)	Near Term Year (2028) Plus Project with Improvements[2] AM	PM
1. Willow Avenue/Behymer Avenue	**NBL**	250	300	170	240
Signal	**NBR**	105	455	35	60
	SBL	250	415	110	170
	SBR	205	205	0	0
	EBL	230	230	105	45
	WBL	90	355	275	310
2. Willow Avenue/Perrin Avenue	**2x NBL**	235	235	80	110
Signal	**NBR**	145	145	15	30
	SBL	250	250	45	55
	SBR	130	225	55	40
	EBL	230	250	215	245
	EBR	--	--	--	--
	WBL	100	300	125	160
	WBR	100	100	0	0
4. Willow Avenue/Perrin Avenue	**NBL**	--	300	115	160
Signal	**NBR**	--	--	170	175
	SBL	--	350	**--**	**--**
	EBL	--	100	**--**	**--**
	EBR	--	125	**--**	**--**
	WBL	--	100	**--**	**--**
	WBR	--	175	**--**	**--**
5. Minnewawa Avenue/Perrin Avenue	**NBL**	--	175	55	105
Signal	**SBL**	--	100	10	5
	EBL	--	175	**--**	**--**
	WBL	--	100	**--**	**--**
6. Minnewawa Avenue/Shepherd Avenue	**NBL**	230	230	**285**	**420**
Signal	**SBL**	260	425	325	210
	SBR	15	150	100	75
	EBL	230	500	150	315
	EBR	45	45	**190**	**185**
	WBL	220	220	185	65
	WBR	60	175	100	105

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

Bold = Queue exceeds available storage.

[1] Storage length for all movements obtained from Google Earth measurements.

[2] All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

Table 11.F - Cumulative (2046) Plus Project with Improvements Queuing Analysis

Intersection	Movement	Existing Storage Length[1] (ft/ln)	Plus Project Recommended Storage Length[1] (ft/ln)	Cumulative (2046) Plus Project with Improvements[2]	
				AM	PM
1 . Willow Avenue/Behymer Avenue	**NBL**	250	300	300	265
Signal	**NBR**	105	455	55	455
	SBL	250	415	215	410
	SBR	205	205	0	0
	EBL	230	230	140	45
	WBL	90	355	340	355
	WBR	--	150	105	65
2 . Willow Avenue/Perrin Avenue	**2x NBL**	235	235	110	170
Signal	**NBR**	145	145	50	145
	SBL	250	250	75	200
	SBR	130	225	225	75
	2x EBL	230	250	**295**	**555**
	EBR	--	--	--	--
	WBL	100	300	220	**315**
	WBR	100	100	15	5
4 . Minnewawa Avenue/Behymer Avenue	**NBL**	--	300	115	290
Signal	**NBR**	--	--	10	35
	SBL	--	350	130	330
	EBL	--	100	25	35
	EBR	--	125	45	120
	WBL	--	100	65	85
	WBR	--	150	100	120
5 . Minnewawa Avenue/Perrin Avenue	**NBL**	--	175	135	165
Signal	**SBL**	--	100	10	15
	EBL	--	175	125	155
	WBL	--	100	35	35
6 . Minnewawa Avenue/Shepherd Avenue	**NBL**	230	230	165	**295**
Signal	**SBL**	260	425	415	335
	SBR	15	150	140	120
	EBL	230	500	255	480
	EBR	45	45	**470**	**305**
	WBL	220	220	190	80
	WBR	60	175	175	175

LSA

Table 11.F - Cumulative (2046) Plus Project with Improvements Queuing Analysis

	Intersection	Movement	Existing Storage Length[1] (ft/ln)	Plus Project Recommended Storage Length[1] (ft/ln)	Cumulative (2046) Plus Project with Improvements[2] AM	Cumulative (2046) Plus Project with Improvements[2] PM
9 .	Project Driveway 3/Behymer Avenue	**WBL**	--	100	20	45
	OWSC					

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

Bold = Queue exceeds available storage.

1 Storage length for all movements obtained from Google Earth measurements.

2 All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

12.0 SITE DISTANCE ANALYSIS AND SAFE ROUTES TO SCHOOL ANALYSIS

As discussed previously and shown on Figure 1-2, access to the project will be provided by four driveways: one full-access driveway on future Peach Avenue and two RIRO access and one right-in-right-out-left-in driveway along Behymer Avenue.

12.1 SIGHT DISTANCE ANALYSIS

A sight distance analysis was conducted at the project driveways along Behymer Avenue and future roadway on Peach Avenue. Sight distance is the length of the visible roadway a driver can see approaching vehicles before their line of sight is blocked by any object. For purposes of this analysis, only the stopping sight distance and corner sight distance have been evaluated. That is because those are the only two sight distance issues that would affect safe maneuver of ingress/egress traffic from the project driveway.

According to the Caltrans *Highway Design Manual* (HDM) (dated July 2020), the stopping sight distance is the minimum sight distance along a roadway required to allow a driver to decrease their speed from the design speed to a complete stop. The corner sight distance is the minimum sight distance in which a driver at a stop-controlled approach can see oncoming traffic on the major street to safely maneuver onto the roadway.

The stopping sight distance was evaluated on the roadways along the project frontage (i.e., Peach Avenue and Behymer Avenue). For purposes of this analysis, the posted speed limit of 30 mph has been considered as the design speed for Peach Avenue and the posted speed limit is 40 mph on Behymer Avenue. As stated in Table 201.1 of the HDM, the minimum stopping sight distance is 200 feet for a design speed of 30 mph and 300 feet for a design speed of 40 mph. Therefore, the minimum stopping sight distance has been considered as 200 feet for Project Driveway 1 (along Peach Avenue) and 300 feet for Project Driveway 2, Project Driveway 3, and Project Driveway 4 (along Behymer Avenue).

As for corner sight distance, Section 405.1 of the HDM states that corner sight distance requirements are not applicable for urban driveways unless signalized. However, as a conservative approach, corner sight distance were also evaluated for the project driveway. The minimum corner sight distance was based on design speed, time gap, and type of vehicles from the minor roads (project driveways) to enter the major roads (Peach Avenue and Behymer Avenue). Based on the requirements established in the HDM, it was determined that a minimum corner sight distance of 335 feet would be required for left-turn maneuvers coming out of Project Driveway 1. Furthermore, a minimum corner sight distance of 290 feet would be required for right-turn maneuvers coming out of Project Driveway 1 and 385 feet would be required for right-turn maneuvers coming out of Project Driveway 2, Project Driveway 3, and Project Driveway 4.

Since the corner sight distance required at the project driveway would be greater than the stopping sight distance, sight triangle figures were created using the corner sight distance. As a conservative measure, left-turn corner sight distance was used for both right- and left-turn sight triangles for the project driveway 1. As illustrated in Figure 12-1, Project Driveway 1 will provide adequate sight

distance for left- and right-turn maneuvers onto Peach Avenue. Similarly, as illustrated in Figure 12-2, Figure 12-3 and Figure 12-4, the Project Driveways will provide adequate sight distance for right-turn maneuvers onto Behymer Avenue.

12.2 SAFE ROUTES TO SCHOOL

The project will be under the jurisdiction of the Clovis Unified School District (CUSD). The CUSD provides transportation for students who live in excess of an established radius zone. The zones are a radius of 1.00 mile for grades Kindergarten through 6th and 2.50 miles for grades 7th through 12th.

The nearest elementary school is Riverview Elementary School, which is located at the southeast corner of the intersection of Chestnut Avenue/Behymer Avenue. The distance between the project corner and the school along Chestnut Avenue/Behymer Avenue is approximately 0.9 mile. Therefore, it is estimated that children from the project will be accessing the elementary school by car, bike, or by walking. This school can be accessed from the project site by traveling west along Behymer Avenue to the intersection of Willow Avenue/Behymer Avenue and continuing west along Beymer Avenue to the intersection of Chestnut Avenue/Behymer Avenue.

It should be noted that the project is within the vicinity of the proposed Heritage Grove Specific Plan project. Based on the project description of the Specific Plan, an elementary school is being proposed within Planning Area 9 of the Specific Plan. Though the completion date for this elementary school is still undetermined, elementary school students from the project are anticipated to attend this school once completed. This new school will be within close proximity of the project site. The Heritage Grove Specific Plan project will also be constructing sidewalks and bike lanes as part of internal circulation network to provide safe route for walking and biking to school. As such, no further safety improvements may be required for the elementary school students upon construction of this elementary school.

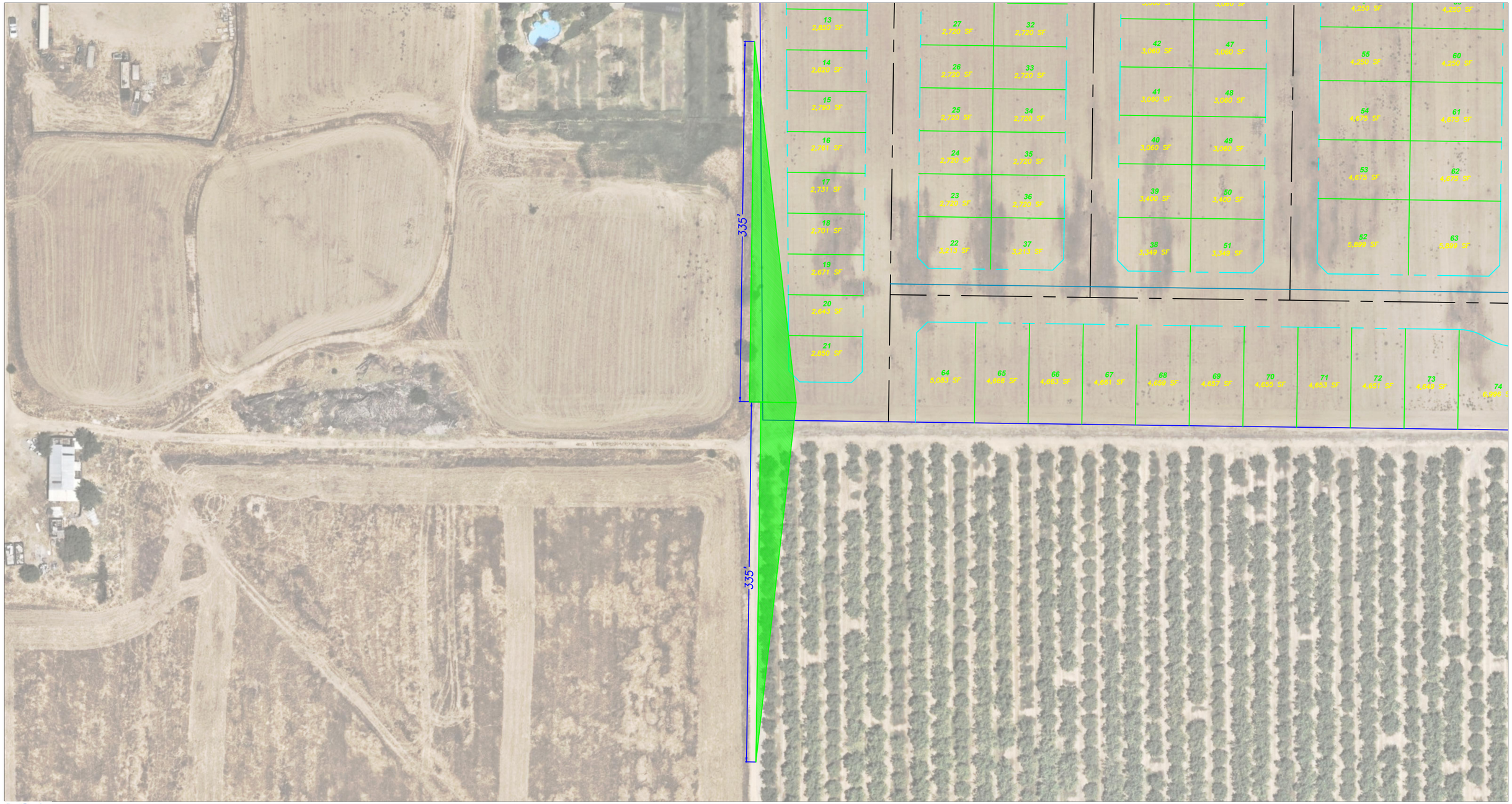
Currently, sidewalks are present along both sides of Behymer Avenue between Chestnut and Willow Avenue. The project will be adding sidewalks along Behymer Avenue along the project frontage. The intersections of Willow Avenue/Behymer Avenue and Chestnut Avenue/Behymer Avenue are signalized intersections with marked crosswalks for pedestrians. As such, with these proposed improvements, people could safely walk using the sidewalks described above and also could safely cross these intersections when permitted without any conflicting vehicular movements. The intersection of Peach Avenue/Behymer Avenue is currently stop controlled along the minor lanes. However, a signal has been recommended at this intersection. Therefore, a signal will be installed at this intersection with marked crosswalks and other safety improvements. As such, a safe walking route to the elementary school would be present for elementary school students from the project.

The nearest middle school from the project is Granite Ridge Intermediate School and nearest high school is the Clovis North High School, both of which are located at the northwest corner of the intersection of Willow Avenue/International Avenue. The distance between the schools and the project is approximately 1 mile and additionally, the project is included within the school's walking radius area. The most direct connection to these schools from the project is using the same routes toward Riverview Elementary School and continue northbound on Willow Avenue. Clovis Old Town Trail is present on the southbound direction of Willow Avenue between Behymer Avenue and

International Avenue. Additionally, the intersection of Willow Avenue/International Avenue is a signalized intersection with a marked crosswalk. As such, a safe walking route would exist between the project and the schools and no further safety improvements will be required.

12.3 LIST OF CHAPTER 12.0 FIGURES

- Figure 12-1: Sight Distance Analysis at Peach Avenue/Project Driveway 1
- Figure 12-2: Sight Distance Analysis at Project Driveway 2/Behymer Avenue
- Figure 12-3: Sight Distance Analysis at Project Driveway 3/Behymer Avenue
- Figure 12-4: Sight Distance Analysis at Project Driveway 4/Behymer Avenue



LSA

FIGURE 12-1

0 40' 80'
FEET

De Young Properties Peach and Behymer Project
Transportation Impact Study

Sight Distance Analysis at Peach Avenue/Project Driveway 1

SOURCE: De Young Properties, February 2024.
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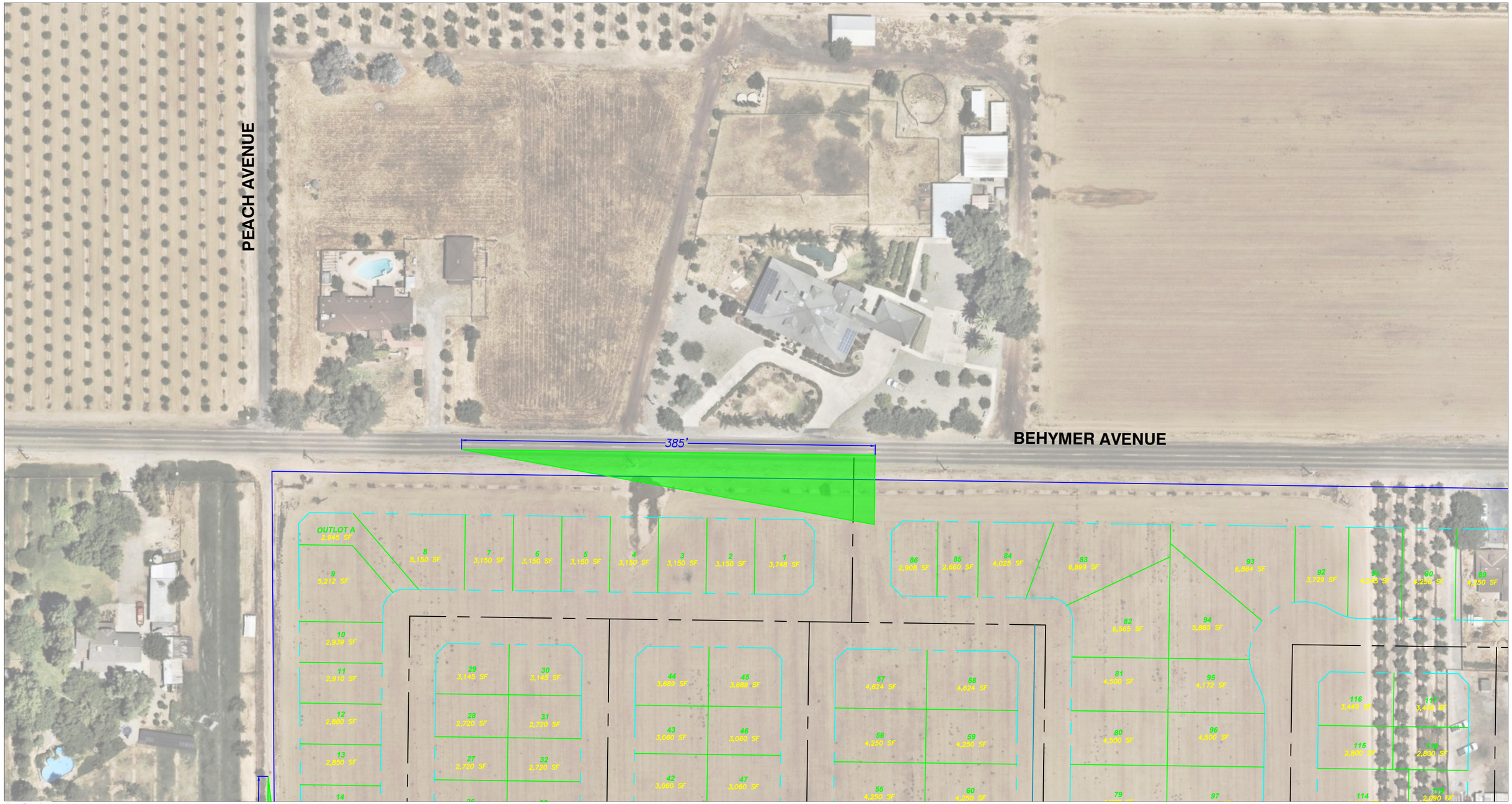

LSA

FIGURE 12-2

0 40' 80'
FEET

SOURCE: De Young Properties, February 2024.
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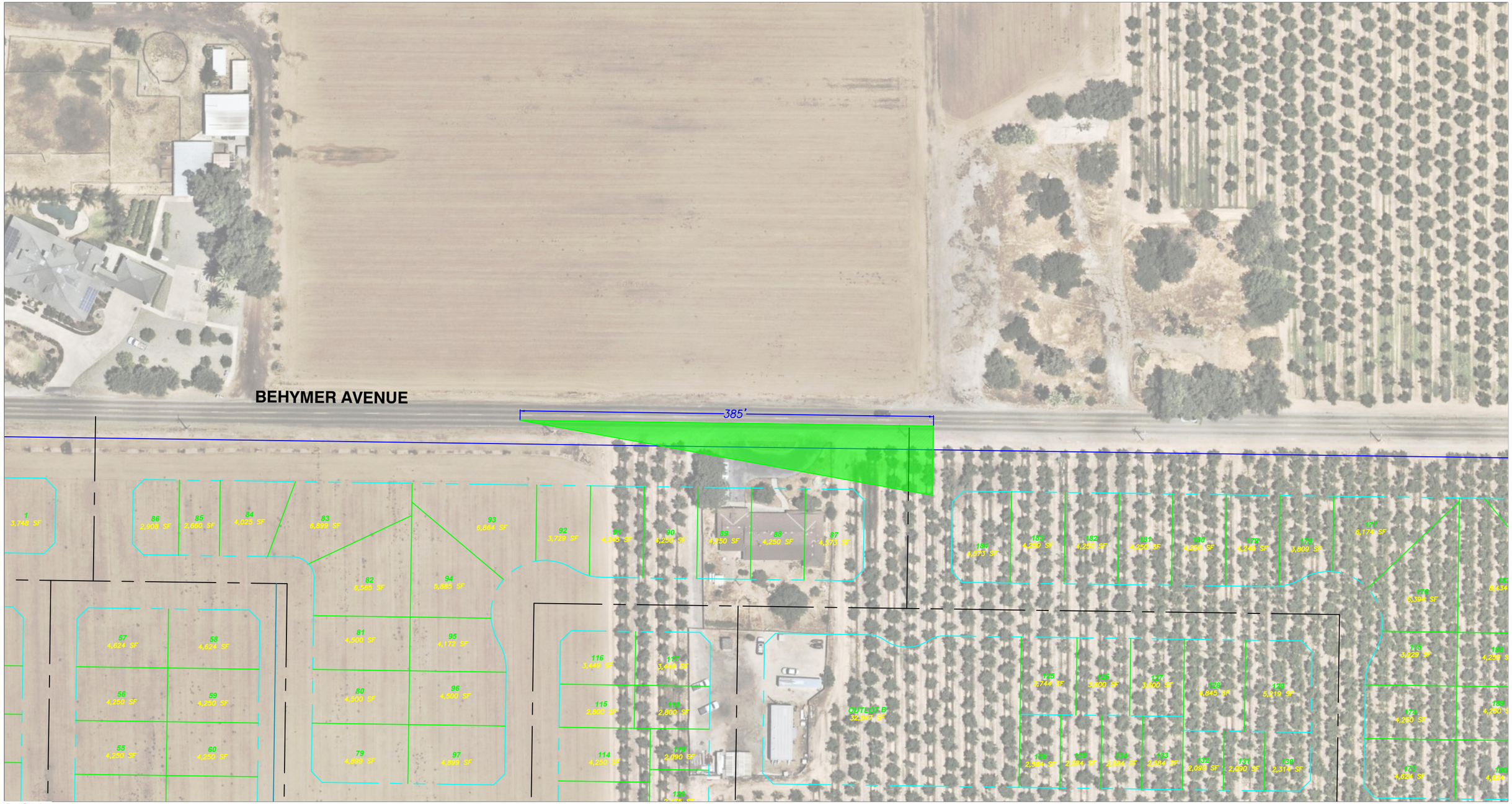
De Young Properties Peach and Behymer Project
Transportation Impact Study

Sight Distance Analysis at Project Driveway 2/Behymer Avenue



LSA

FIGURE 12-3

0 40' 80'
FEET

De Young Properties Peach and Behymer Project
Transportation Impact Study

Sight Distance Analysis at Project Driveway 3/Behymer Avenue

SOURCE: De Young Properties, February 2024.
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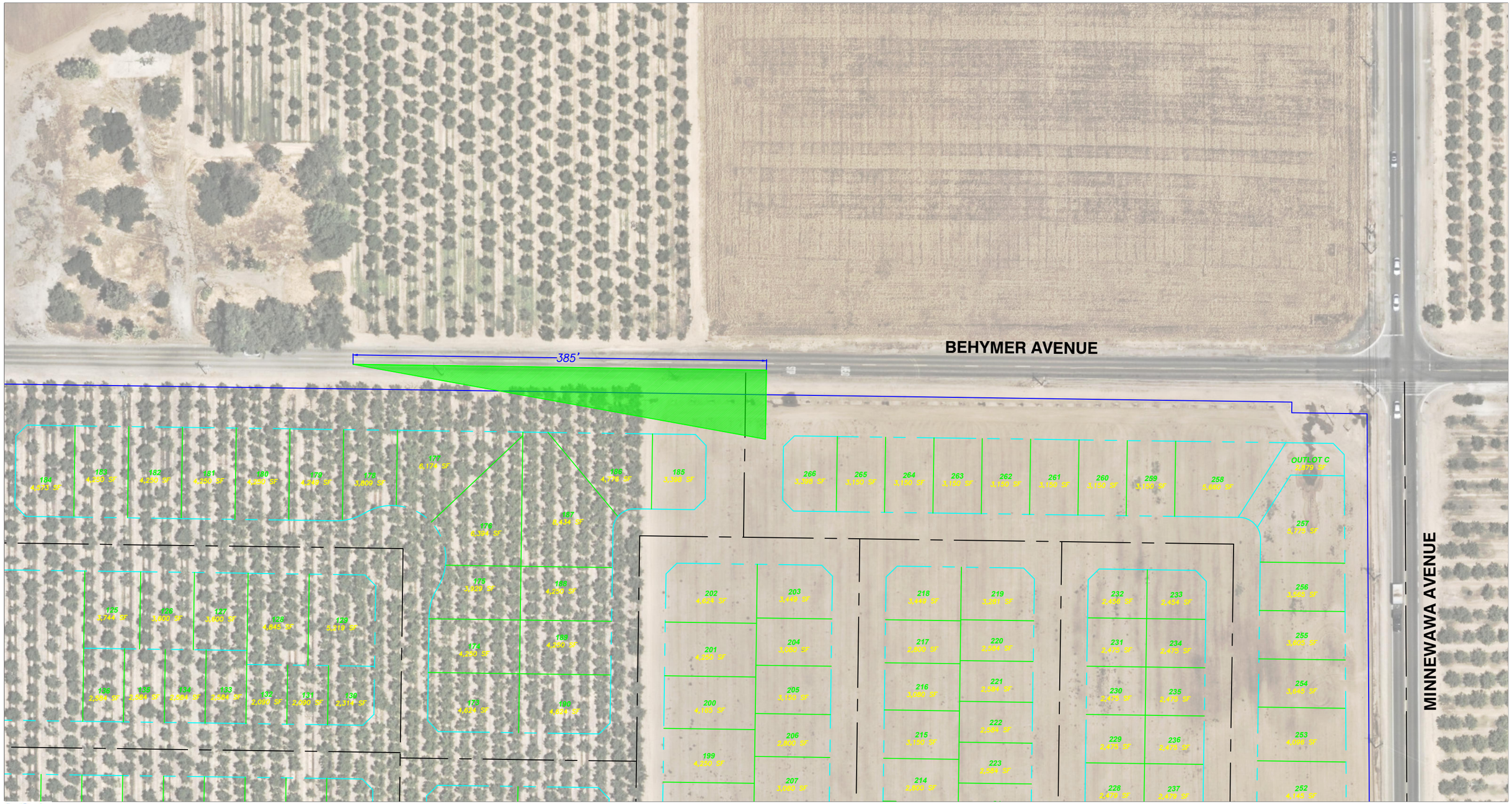

LSA

FIGURE 12-4

0 40' 80'
FEET

De Young Properties Peach and Behymer Project
Transportation Impact Study

Sight Distance Analysis at Project Driveway 4/Behymer Avenue

SOURCE: De Young Properties, February 2024.
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13.0 SUMMARY AND CONCLUSIONS

The proposed project will consist of 266 single-family homes on approximately 37 acres of the site. The remaining 32,974 sf of the site will be used for park space. It is anticipated that the project buildout will occur in year 2028. Access to the project will be provided by four driveways.

13.1 VEHICLE MILES TRAVELED ANALYSIS SUMMARY

The project's VMT per capita is 14.9 which is 5.5 percent higher than the City's VMT per capita threshold. Therefore, based on the TIA Guidelines, the project will have a significant VMT impact. However, given the project is consistent with the City's General Plan, it would fall under the Statement of Overriding Considerations for the City's General Plan EIR and would implement the mitigation measures recommended in the EIR. As such, the project would not require any additional mitigation measures than what has been recommended in the General Plan EIR.

13.2 EXISTING CONDITIONS SUMMARY

All study intersections operate at a satisfactory LOS under existing without and plus project conditions with the exception of intersection at Minnewawa Avenue/Behymer Avenue.

13.3 NEAR-TERM (2028) CONDITIONS SUMMARY

All intersections are forecast to operate at a satisfactory LOS under near-term (2028) plus project conditions with the exception of 3 intersections.

13.4 CUMULATIVE (2046) CONDITIONS SUMMARY

All intersections are forecast to operate at a satisfactory LOS under cumulative (2046) without and plus project conditions with the exception of 6 intersections.

13.5 IMPROVEMENTS SUMMARY

Based on the improvements discussed in Section 10.1 'Recommended Improvements', of this report, all intersections are estimated to operate satisfactorily. All of the recommended circulation improvements are covered by the Clovis Operations and Development Impact Fee.

13.6 QUEUEING ANALYSIS SUMMARY

The recommended storage lengths have been proposed at intersections based on the availability of right-of-way and 95th percentile back-of-queue lengths at the study intersections.

13.7 SIGHT DISTANCE ANALYSIS SUMMARY

A sight distance analysis was conducted at the project driveways. Based on the sight distance analysis, the proposed project driveways achieve adequate sight distances and have clear sight triangles for the drivers.

13.8 SAFE ROUTES TO SCHOOL ANALYSIS SUMMARY

The project is well connected with the nearby elementary school, intermediate school and the high school for non-motorized modes of commute due to existing and proposed sidewalks as well as signalized intersections with marked crosswalks.

APPENDIX A

SCOPING AGREEMENT

CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

April 19, 2024

Mr. Sean K. Smith
Supervising Civil Engineer
Engineering Division, City of Clovis
1033 Fifth Street
Clovis, California 93612

Subject: Scope of Work for De Young Properties Peach and Behymer Project Transportation Impact Analysis (LSA Project No. 20231181)

Dear Sean:

LSA will be preparing a Transportation Impact Analysis (TIA) for the De Young Properties Peach and Behymer Project (project) in Clovis (City). The approximately 37 acres project site is located at the southwest corner of Minnewawa Avenue and Behymer Avenue on parcels 556-01-028 and 556-01-029. The project site is currently occupied by one residential unit and agricultural uses. Figure 1 (all figures, tables, and appendices attached) illustrates the regional and project location.

The proposed project is located within City's sphere of influence (SOI) and within the northwest urban center growth area. The project is proposing to annex approximately 37 acres from Fresno County into the City and includes the development of 266 single family dwelling units and 32,974 square-feet (sf) of park space. Figure 2 illustrates the tentative subdivision map for the residential development in the project. Access to the project site will be provided via four project driveways – one on future extension of Peach Avenue, and three on Behymer Avenue. The following provides a brief description of proposed access controls for all project driveways:

- Project Driveway 1: This driveway will be located along Peach Avenue and will be a full access driveway.
- Project Driveway 2: This driveway will be located along Behymer Avenue and will be a right-in-right-out (RIRO) only driveway.
- Project Driveway 3: This driveway will be located along Behymer Avenue and will be a right-in-right-out-left-in driveway. Left-out access will be restricted.
- Project Driveway 4: This driveway will be located along Behymer Avenue and will be a RIRO only driveway.

It should be noted that the project is also anticipated to have connections to adjacent future residential development located immediately south of the project site.

The City requires preparation of TIAs using the City of Clovis *Transportation Impact Analysis Guidelines* for land uses projects within the City. As recommended in the City's TIA Guidelines, a Local Transportation Analysis (LTA) would be required for City's General Plan consistency

1500 Iowa Avenue, Suite 200, Riverside, California 92507 951.781.9310 www.lsa.net

requirement purposes, while a vehicle Miles Traveled Analysis will be required for California Environmental Quality Act (CEQA) Transportation Impact Assessment purposes. As such, LSA anticipates that the following scope of work will be required to prepare the TIA for the proposed project.

LOCAL TRANSPORTATION ANALYSIS

Study Area Intersections

An LTA will be prepared to satisfy the requirements established by the City's TIA Guidelines to evaluate the project's effect on General Plan level of service (LOS) requirements. Traffic operations at all study intersections will be analyzed during the weekday a.m. and p.m. peak hours. The a.m. peak hour is defined as the one-hour period of the highest traffic volume occurring between 7:00 and 9:00 a.m. while the p.m. peak hour is defined as the one-hour period of the highest traffic volume occurring between 4:00 and 6:00 p.m. Intersection LOS will be calculated using the *Highway Capacity Manual* 7th Edition (HCM 7) analysis methodologies and by using the Synchro 12 software.

As per the City's TIA guidelines, the extent of the study area should include the following:

- Pedestrian, bicycle, and transit facilities within a half-mile distance from the project site boundary;
- All intersections of major streets that would provide direct access to the project;
- All signalized intersections within one-half mile of the project site boundary where the project would add 50 or more peak hour trips, and signalized intersections beyond one-half mile where the project would add 100 or more peak hour trips; and
- All unsignalized intersections within a half-mile of the project site boundary where the project would add more than 50 peak hour trips.

As such, the TIA will examine the following intersections:

1. Willow Avenue/Behymer Avenue (City of Clovis/City of Fresno);
2. Willow Avenue/Perrin Avenue (City of Clovis/City of Fresno);
3. Peach Avenue/Behymer Avenue (City of Clovis);
4. Minnewawa Avenue/Behymer Avenue (City of Clovis);
5. Minnewawa Avenue/Shepherd Avenue (City of Clovis);
6. Peach Avenue/Perrin Avenue [Future intersection] (City of Clovis);
7. Peach Avenue/Project Driveway 1 (City of Clovis);
8. Project Driveway 2/Behymer Avenue (City of Clovis);
9. Project Driveway 3/Behymer Avenue (City of Clovis); and
10. Project Driveway 4/Behymer Avenue (City of Clovis).

Figure 3 illustrates the study area intersections.

Project Trip Generation, Trip Distribution, and Trip Assignment

The trip generation for the proposed project was developed using rates from the Institute of Transportation Engineers (ITE) *Trip Generation Manual* (11th Edition) for Land Uses 210 - "Single-Family Detached Housing – Setting/Location General Urban/Suburban." The project trip generation is summarized in Table A. The project is anticipated to generate 2,508 total daily trips, with 186 trips occurring during the a.m. peak hour and 250 trips occurring during the p.m. peak hour.

The project trip distribution patterns were derived from the select zone model run obtained from the Fresno Council of Governments' (COG's) Activity-Based Model (ABM). The select zone model plot is included in Appendix A. This was further refined to reflect existing and future circulation network in the vicinity of the proposed project.

Currently, within the project vicinity, Peach Avenue, north of Shepherd Avenue, and Perrin Avenue east of Willow Avenue, are yet to be constructed. As such, it is estimated that this segment of Peach Avenue (between southern end of the project and Shepherd Avenue) along with Perrin Avenue east of Willow Avenue (between Willow Avenue and Peach Avenue) would be constructed along with other major developments within the area as part of the Heritage Grove Specific Plan Project envelop. However, since there is no determined timeline for these circulation improvements, two separate project trip distribution patterns were developed for the project, one for existing and near-term scenario, which reflects the existing circulation network in the project vicinity, and another for cumulative long-term scenario, which accounts for completion of Peach Avenue, Clovis Avenue and Perrin Avenue, among other circulation network improvements.

Additionally, as previously mentioned, upon completion of the adjacent residential projects south of the project limit, project trips may utilize the expanded circulation network to travel south and access Peach Avenue, Perrin Avenue or Minnewawa Avenue. However, as a conservative estimate since these developments are yet to be developed and the circulation network is not finalized, it was estimated that all project trips will be utilizing the four project driveways. This would provide a more conservative estimate in determination of operational efficiencies at the project driveways.

Figure 4 illustrates the existing and near-term project trip distribution. Figure 5 illustrates the cumulative scenario project trip distribution. The project trip assignment at the study area intersections is the product of the project trip generation and the corresponding trip distribution percentages. Figure 6 illustrates the existing and near-term conditions project trip assignment at the study area intersections. Figure 7 illustrates the cumulative conditions project trip assignment at the study area intersections.

Analysis Scenarios

The LTA will be prepared based on consultation with City staff and meet the requirements recommended in the City's TIA Guidelines. As recommended in the City's TIA Guidelines, the LOS analysis will examine traffic operations at the study intersections under the following scenarios:

- Existing Conditions;
- Existing Plus Project Conditions;

- Near-Term Plus Project Conditions;
- Cumulative Long-Range Without Project Conditions; and
- Cumulative Long-Range Plus Project Conditions.

Volume Development and Analysis Methodology

Traffic volumes for existing conditions will be developed using existing count data collected at study intersections.

Traffic volumes under near-term plus project conditions will be developed by adding traffic volumes from approved and pending development projects located near the study area and project traffic to existing traffic volumes. LSA will contact City staff and adjacent jurisdictions for a list of approved and pending development projects that are estimated to be completed by the project completion year.

Traffic volumes for cumulative year without project conditions will be developed by using forecast volumes obtained from the Fresno COG ABM. The methodology to develop cumulative year without project traffic volumes at study area intersections will be consistent with the COG's procedures for post-processing of modeled traffic volumes.

Existing and cumulative year plus project traffic volumes will be developed by adding project traffic to the traffic volumes for the corresponding without project scenarios.

For all analysis scenarios, intersection LOS will be calculated using the *Highway Capacity Manual* 7th Edition (HCM 7) analysis methodologies and by using the Synchro 12 software.

Intersection Queuing Analysis

An intersection queuing analysis will be performed at all study intersections. The queuing analysis will be performed using Synchro for signalized intersections and using SimTraffic for unsignalized intersections.

Analysis of Traffic Operations and Recommended Circulation Improvements

LOS without the project will be compared with LOS under plus project scenarios for all analysis scenarios to determine operational deficiencies based on the LOS standards and operational deficiency criteria as applicable for the City. Furthermore, necessary improvements will be recommended to offset any operational deficiencies. Improvements may include addition of intersection turn lanes, changes in traffic control, signalization, etc. The LOS with the proposed improvements will be calculated and summarized, along with a comparison of the LOS without improvements.

Signal Warrant Analysis (if Required)

A peak hour signal warrant analysis would be conducted at unsignalized intersections if a signal is recommended as an improvement. Peak hour approach volumes for study intersections will be examined to determine whether signalization may be warranted per the criteria defined in the California supplement of the *Manual on Uniform Traffic Control Devices* (CA-MUTCD).

Fair-Share Contributions (if Required)

A fair share percentage will be calculated for study intersection improvements recommended in the TIA that are not included in the Measure C program, the City's Development Fee program, or any other funding program. The percentage of fair share for the project will be calculated at each location using the total trips generated by the project divided by the total "new" traffic, which is the net increase in traffic volumes from existing to cumulative year conditions.

Site Access and Circulation Analysis

A site access and circulation analysis will be conducted as per the criteria stated in the City's TIA guidelines. The following issues will be evaluated as part of this analysis:

- Anticipated queues and minimum required throat depth (MRTD) at all project access locations;
- A sight distance analysis at the project driveways including recommended improvements in cases of unsafe traffic conditions; and
- Safety of potential pedestrian paths of travels from the project site to schools, commercial areas, and nearby bus stops.

Safe Routes to School Analysis

Since the project is residential in nature, a safe route to school analysis would be included as part of the LTA. This would analyze the pedestrian and bike facilities en route to school from the project and discuss necessary improvements, if required.

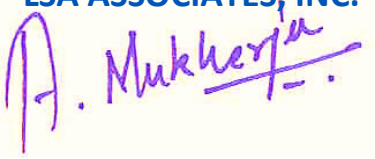
PROJECT VEHICLE MILES TRAVELED ANALYSIS

The TIA will include a Vehicle Miles Traveled (VMT) analysis to meet CEQA requirements. The project VMT analysis will be prepared consistent with the City's TIA Guidelines. As per the City's TIA Guidelines, the project cannot be considered as a small project given that the project exceeds 53 dwelling units. Therefore, a full VMT analysis will be required for the project. For purposes of this analysis, the project-generated VMT per capita will be obtained from the Fresno COG ABM. As per the City's TIA Guidelines, a significant project-generated VMT impact would occur if the project's VMT per capita exceeds a level of 13 percent below the existing County average VMT per capita provided in the guidelines. However, it should be noted that since the project is consistent with the City's General Plan, it may fall under the Statement of Overriding Considerations for the City's General Plan EIR and may not require any additional project specific mitigation measures.

Should you have any questions, please do not hesitate to contact me at (951) 781-9310 or email me at Ambarish.Mukherjee@lsa.net.

Sincerely,

LSA ASSOCIATES, INC.



Ambarish Mukherjee, AICP, PE
Principal

ATTACHMENTS

Table A: Project Trip Generation
Figure 1: Regional and Project Location
Figure 2: Tentative Subdivision Map
Figure 3: Study Area Intersections
Figure 4: Existing and Near-Term Project Trip Distribution
Figure 5: Cumulative Project Trip Distribution
Figure 6: Existing and Near-Term Project Trip Assignment
Figure 7: Cumulative Project Trip Assignment
Appendix A: Fresno COG ABM Select Zone Model Plots

TABLES

LSA

Table A - Project Trip Generation

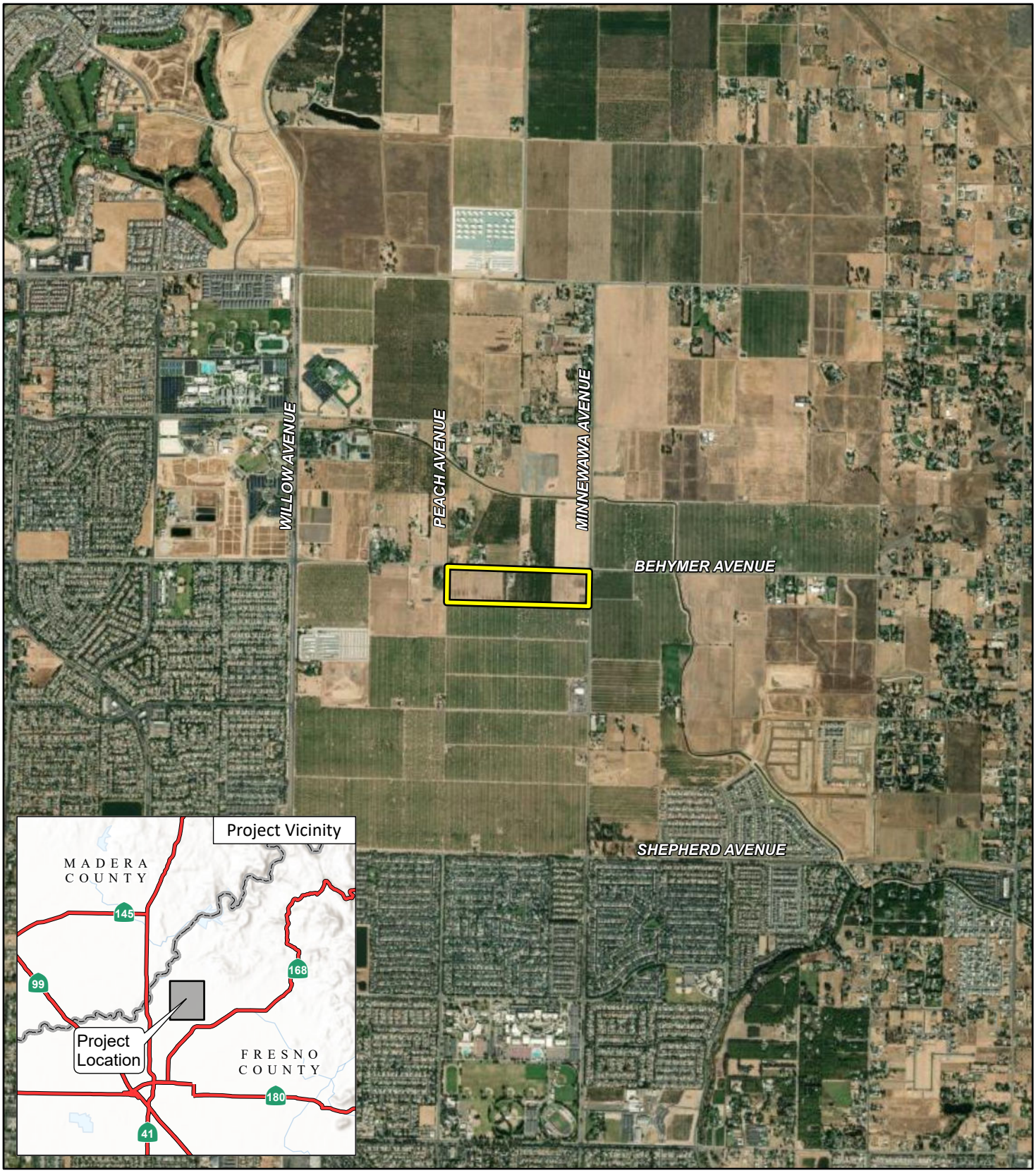
Land Use	Units	A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
Single-Family Detached Housing	266 DU							
Trips/Unit[1]		0.18	0.52	0.70	0.59	0.35	0.94	9.43
Trip Generation		**48**	**138**	**186**	**157**	**93**	**250**	**2,508**

Notes:

DU = Dwelling Units

[1] Rates based on Land Use 210 - "Single-Family Detached Housing" from the Institute of Transportation Engineers (ITE) *Trip Generation Manual* , 11th Edition, Setting/Location - "General Urban/Suburban."

FIGURES



LSA

LEGEND

Project Location

FIGURE 1

N

0 1200 2400

FEET

SOURCE: ESRI Streetmap, 2021; Google Earth, 2022.

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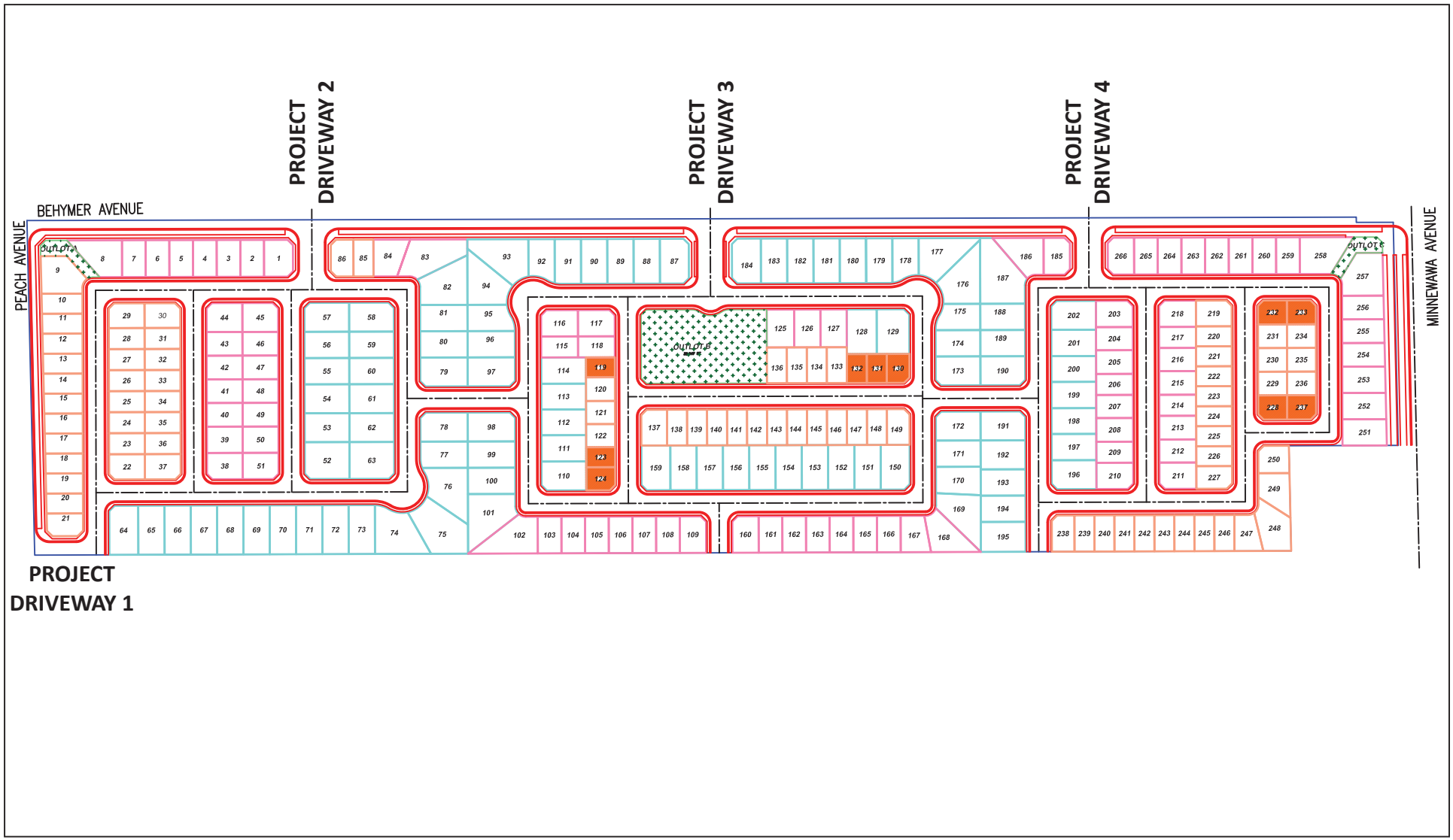
De Young Properties Peach and Behymer Project
Transportation Impact Analysis
Regional and Project Location



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LEGEND

38' X 55' -TYPICAL	10 LOTS	
38' X 68'- TYPICAL	79 LOTS	
45' X 70'- TYPICAL	82 LOTS	
50' X 85'- TYPICAL	95 LOTS	
266 TOTAL SFR LOTS		PARK

N

0 150 300

FEET

FIGURE 2

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Conceptual Site Plan

SOURCE: De Young Properties, February 2024.

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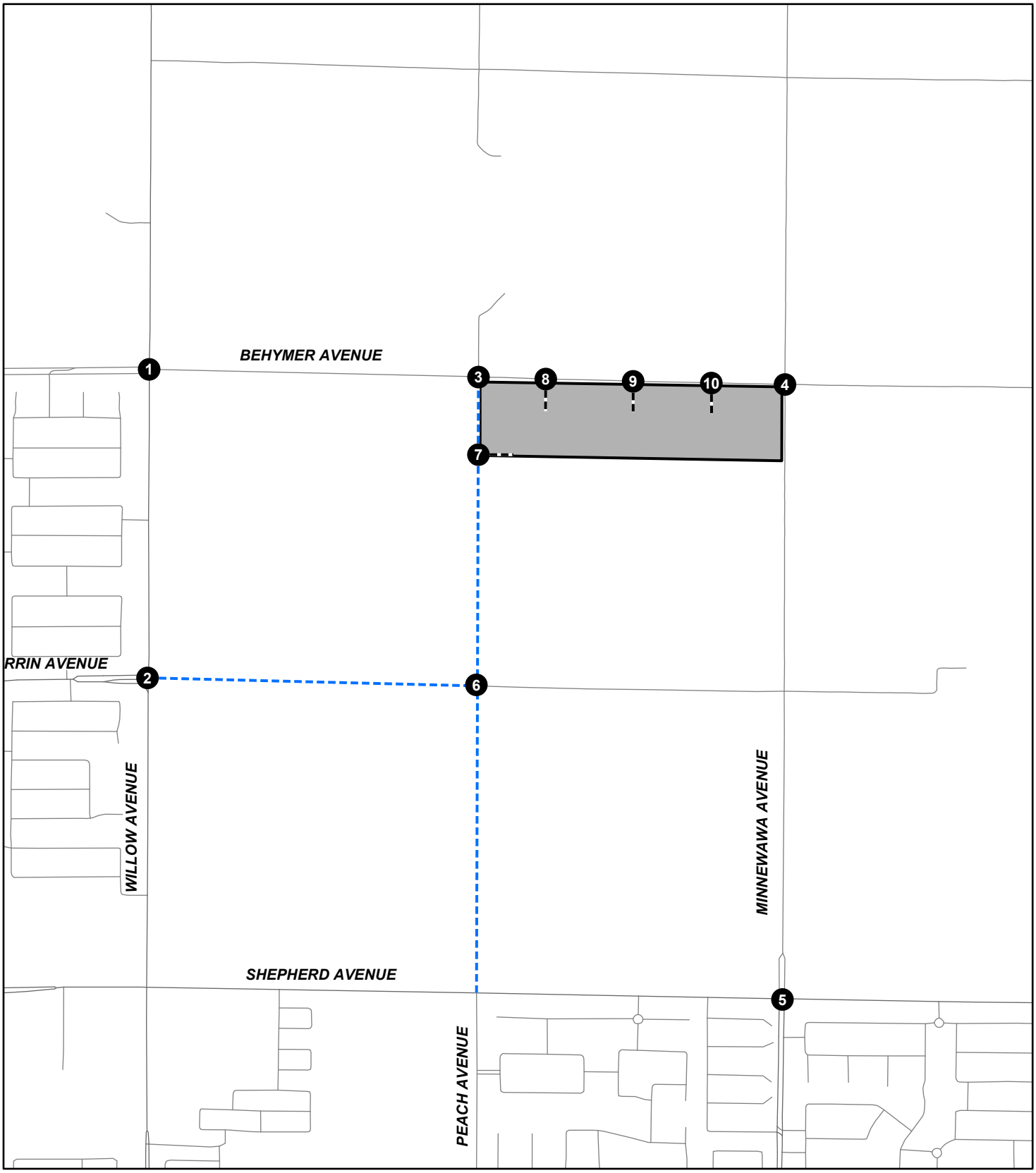

LSA

LEGEND

- Project Location
- Study Intersections
- Project Driveway
- Future Roadway

0 600 1200
FEET

FIGURE 3

De Young Properties Peach and Behymer
Study Intersections

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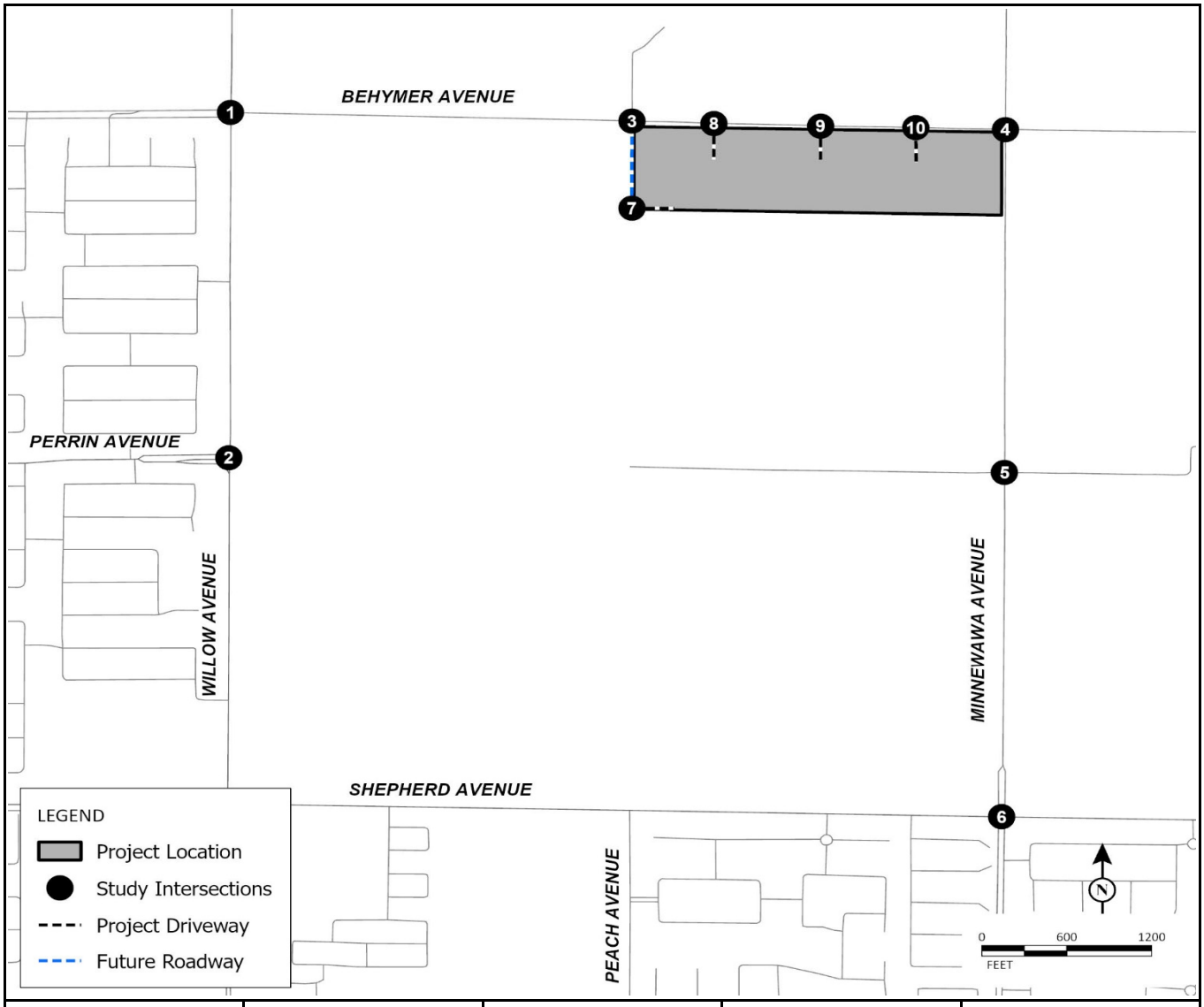

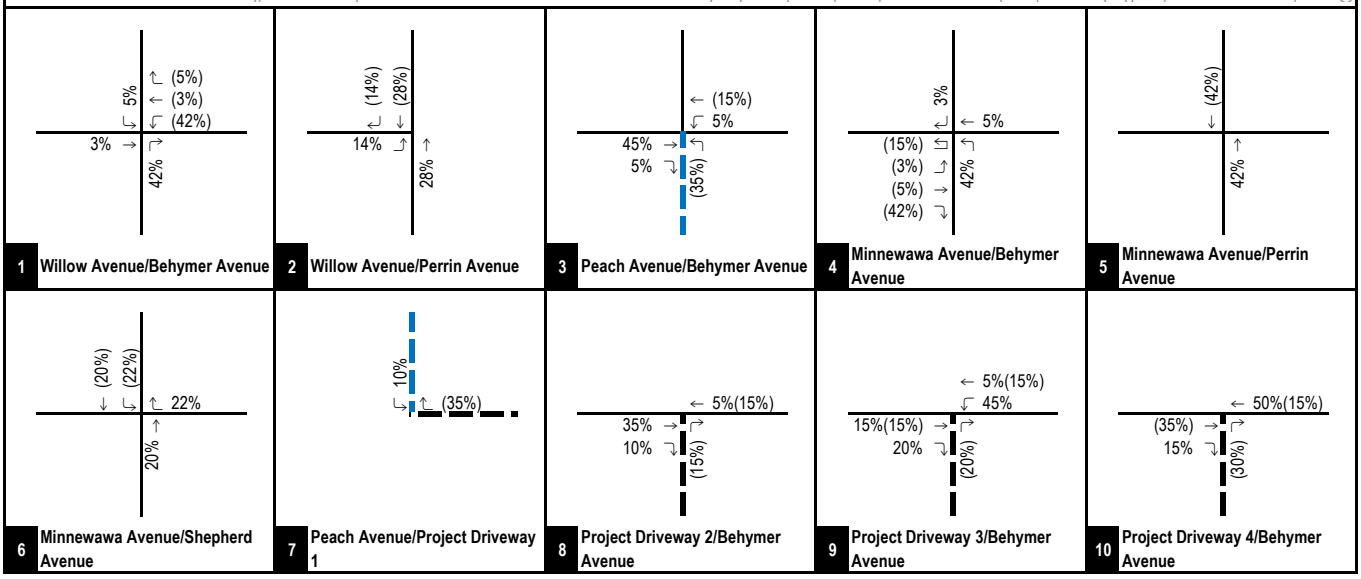

LSA

FIGURE 4

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway
Future Roadway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Existing and Near-Term Project Trip Distribution

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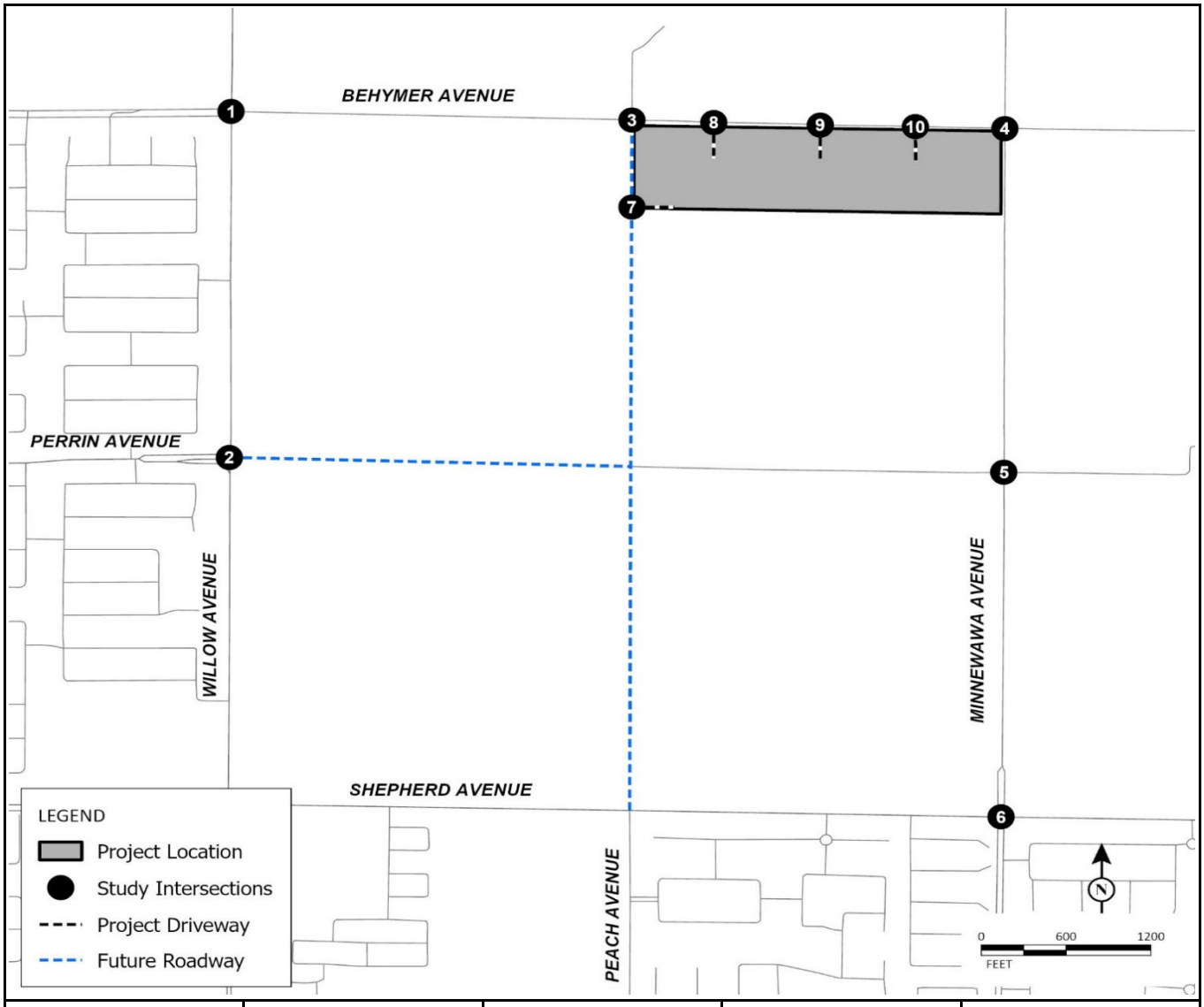

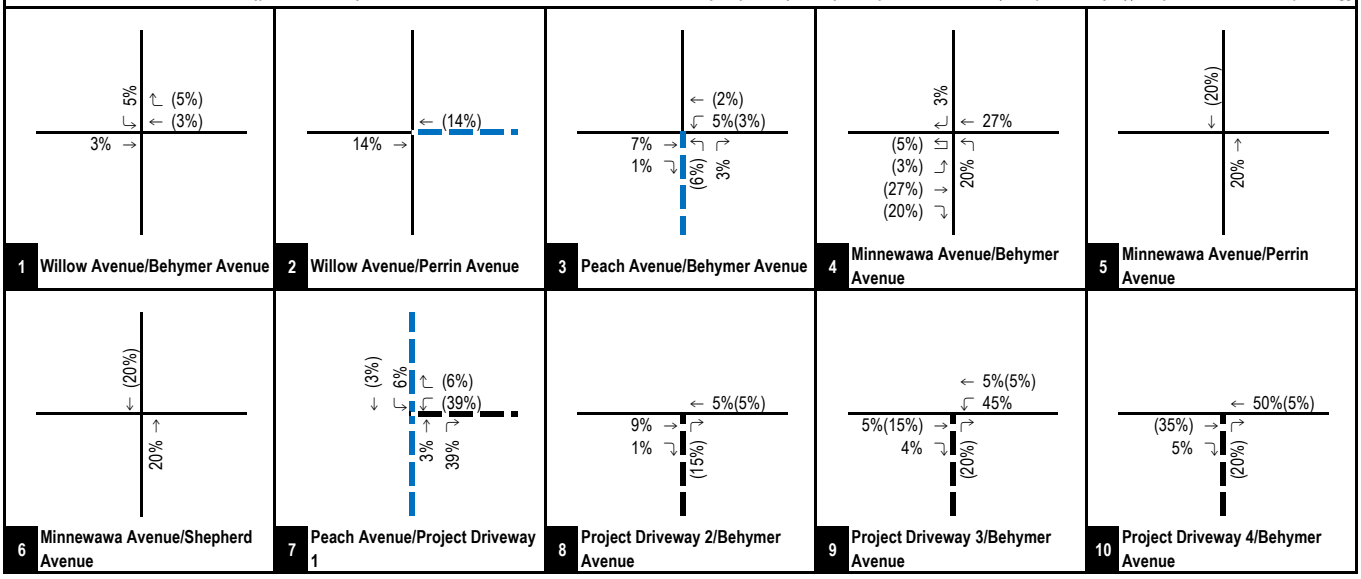

LSA

FIGURE 5

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway
Future Roadway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Cumulative Project Trip Distribution

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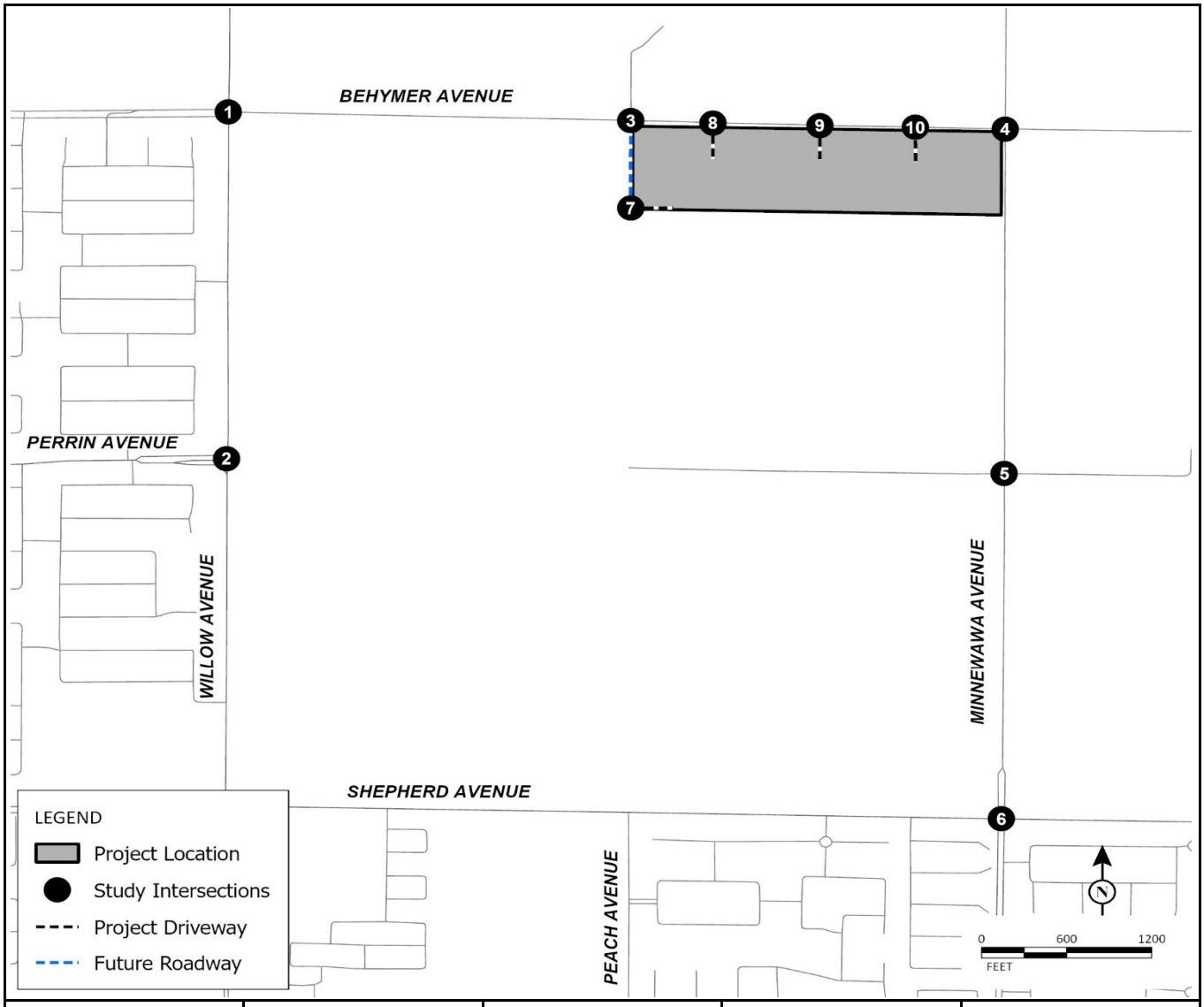

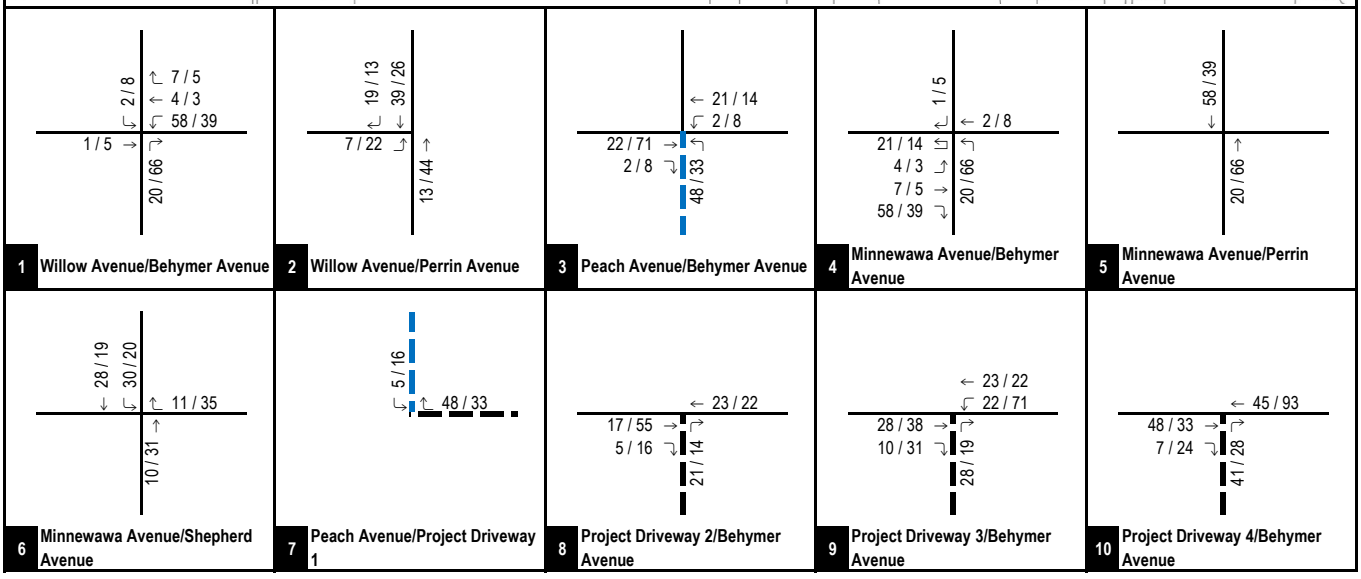

FIGURE 6

LSA

XX / YY
AM / PM Peak Hour Trips
Project Driveway
Future Roadway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Existing and Near-Term Project Trip Assignment

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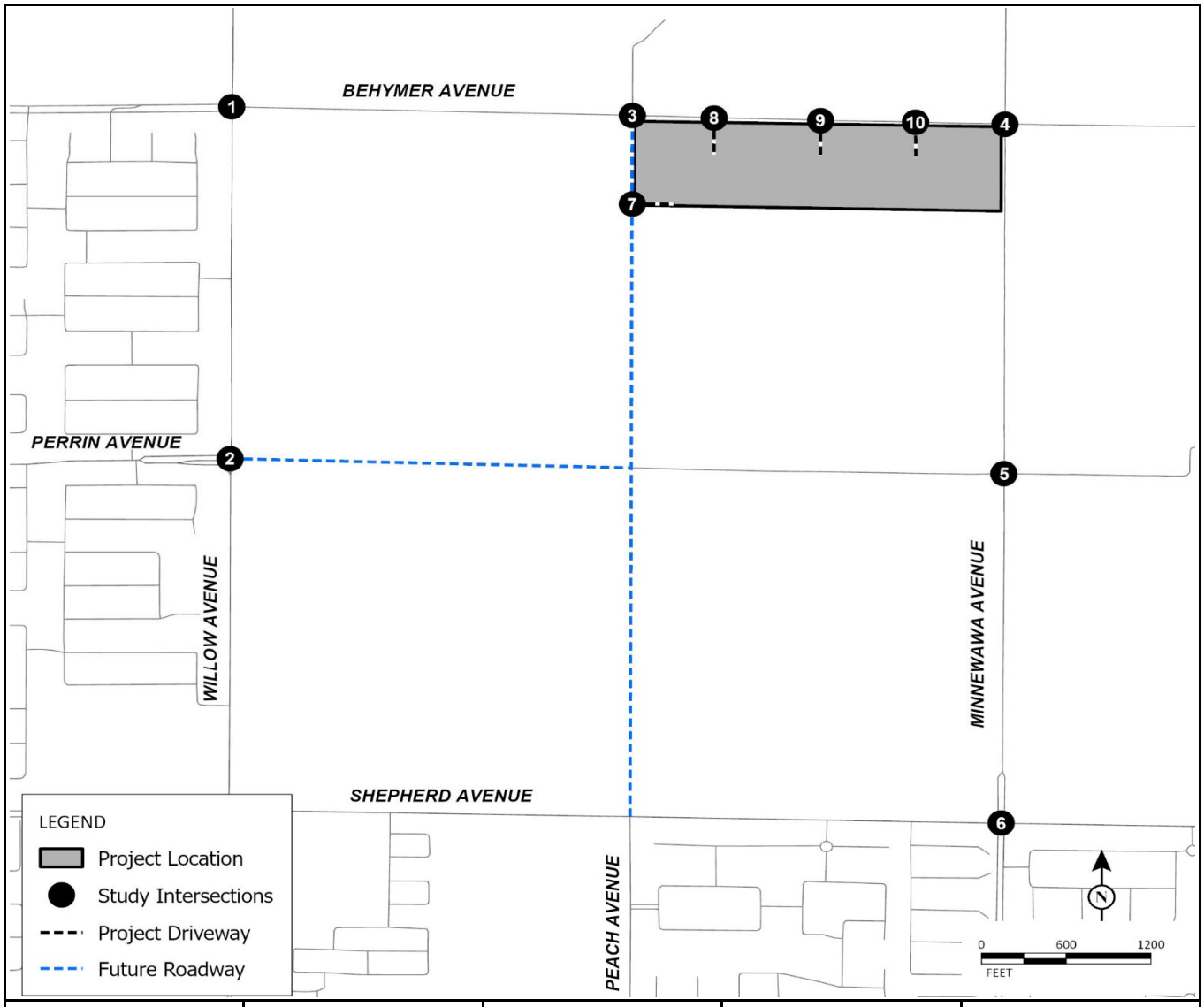

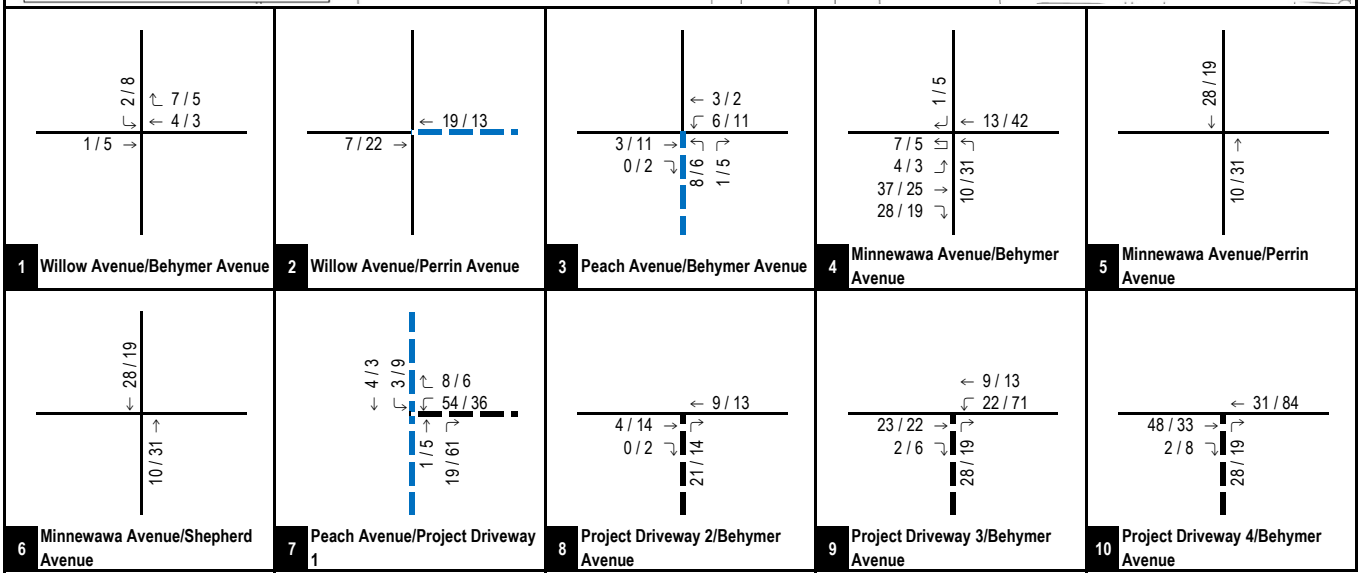

1 Willow Avenue/Behymer Avenue
2 Willow Avenue/Perrin Avenue
3 Peach Avenue/Behymer Avenue
4 Minnewawa Avenue/Behymer Avenue
5 Minnewawa Avenue/Perrin Avenue
6 Minnewawa Avenue/Shepherd Avenue
7 Peach Avenue/Project Driveway 1
8 Project Driveway 2/Behymer Avenue
9 Project Driveway 3/Behymer Avenue
10 Project Driveway 4/Behymer Avenue

LSA

FIGURE 7

XX / YY
AM / PM Peak Hour Trips
Project Driveway
Future Roadway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Cumulative Project Trip Assignment

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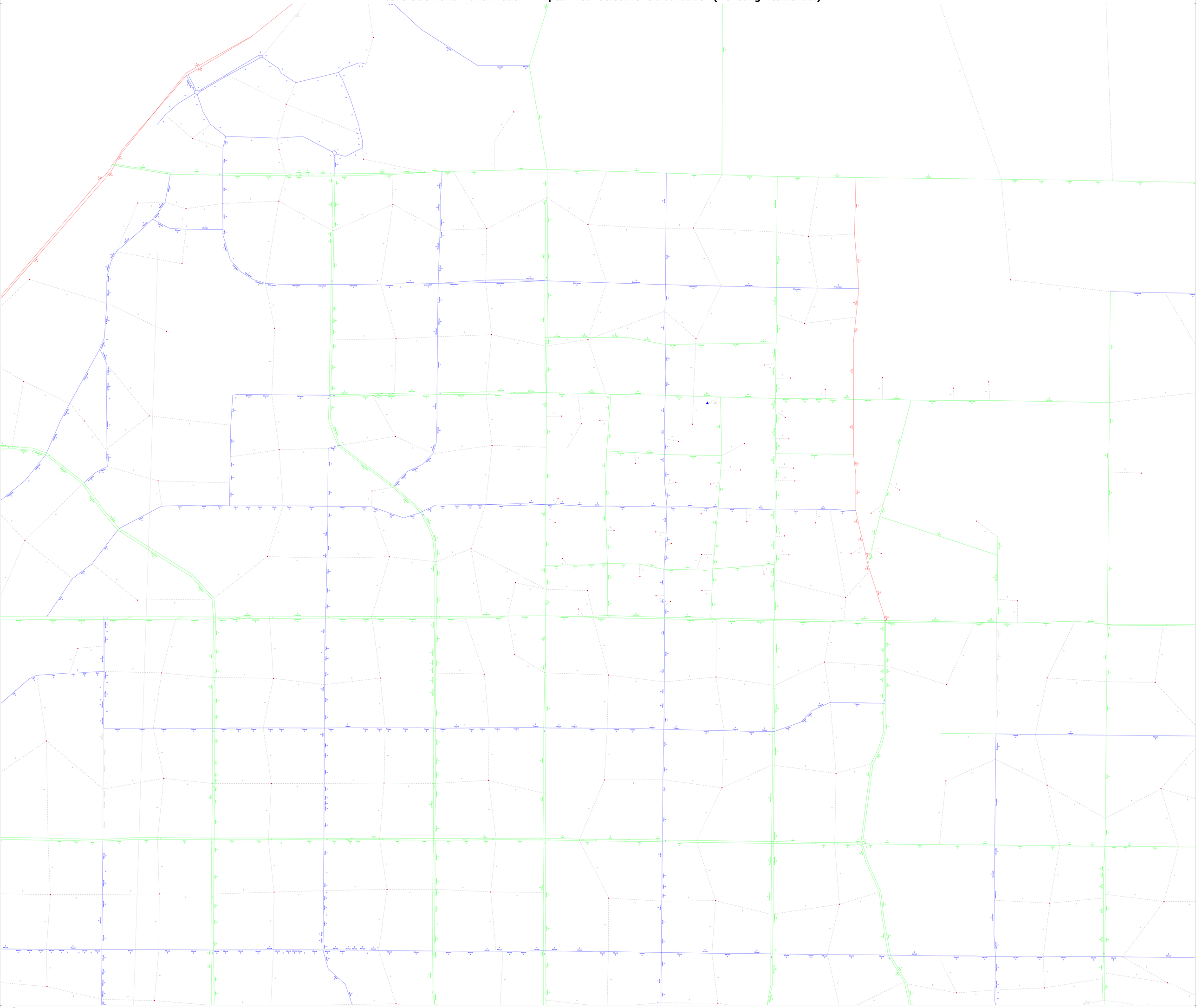
APPENDIX A

FRESNO COG ABM SELECT ZONE MODEL PLOTS

Fresno COG 2046 Travel Model - PM peak hour select zone distribution (DeYoung Residential)



APPENDIX B

VMT CALCULATION WORKSHEETS

LSA

Appendix B
VMT Calculations
De Young Single Family Residential Development

2019	De Young Single Family (Project) *	City of Clovis **
Total project households	266	
Total project population (a)	896	
Percent Population traveling to outside (b) *	7.79%	
Project Population traveling to outside (c=b*a)	70	
Total Internal-Internal (II) Project VMT (d) **	11,132	
Internal project population (e=a-c)	826	
II VMT per capita (f=d/e)	13.5	
IX VMT per capita (g) ***	31.5	
Total IX VMT (h=g*c)	2,199	
Total project VMT (i=d+h)	13,331	
VMT per capita (j=i/a)	14.9	14.1

** : Obtained from "Fresno_worker_ixxifractions.dat" from model inputs. Used same percentages/values as the parent TAZ (248)*

***: Includes all tours and all sub-tours from the ABM model run for VMT estimation*

****: IX VMT per capita was estimated as weighted average for all TAZs in the CSTDM Zone 2569*

APPENDIX C

TRAFFIC COUNT SHEETS AND SIGNAL TIMING SHEETS

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

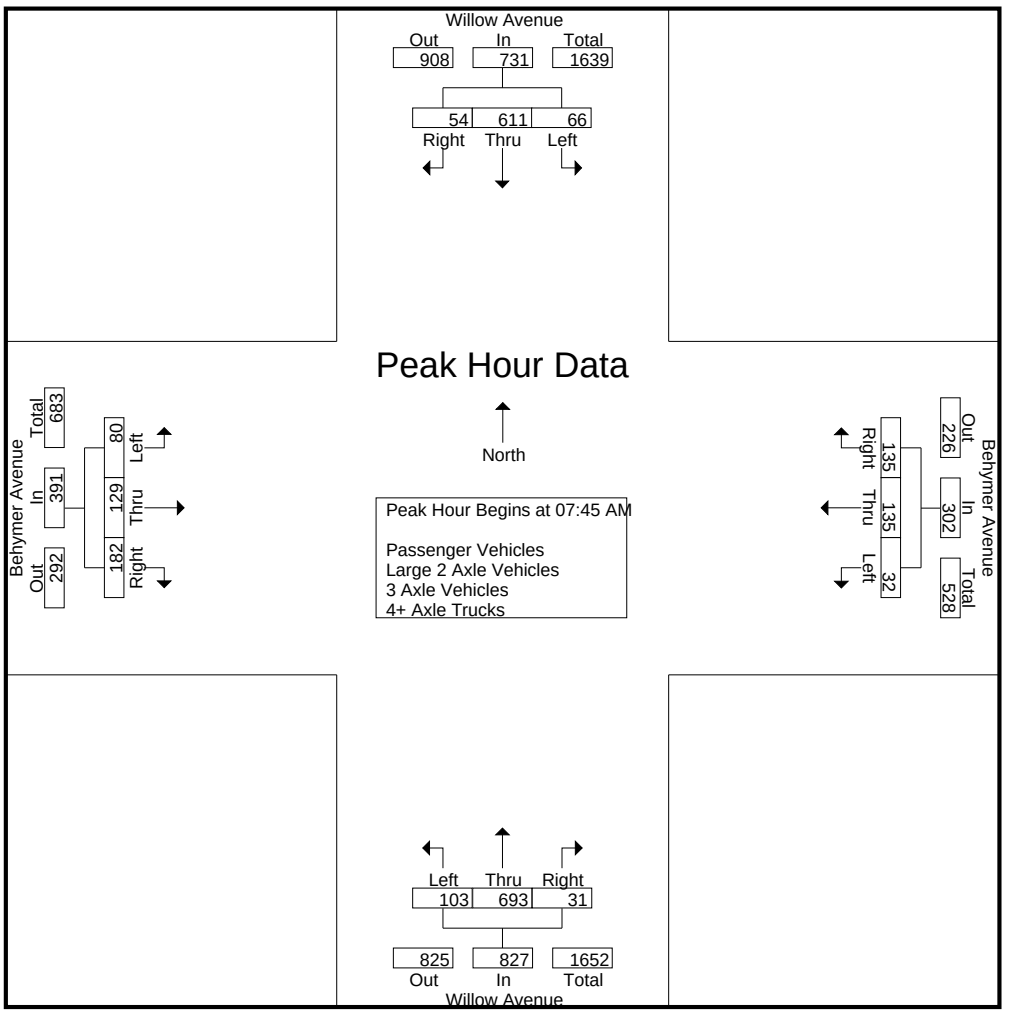
	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	11	47	5	63	6	12	9	27	7	44	10	61	8	19	22	49	200
07:15 AM	5	82	8	95	14	31	13	58	6	70	3	79	1	22	24	47	279
07:30 AM	6	132	9	147	12	65	34	111	29	106	7	142	9	32	58	99	499
07:45 AM	9	114	3	126	12	62	38	112	24	151	10	185	18	56	75	149	572
Total	31	375	25	431	44	170	94	308	66	371	30	467	36	129	179	344	1550
08:00 AM	20	128	8	156	4	26	42	72	21	172	13	206	21	30	38	89	523
08:15 AM	20	170	23	213	11	18	22	51	30	194	4	228	34	22	36	92	584
08:30 AM	17	199	20	236	5	29	33	67	28	176	4	208	7	21	33	61	572
08:45 AM	13	130	3	146	8	30	42	80	22	143	9	174	1	23	27	51	451
Total	70	627	54	751	28	103	139	270	101	685	30	816	63	96	134	293	2130
Grand Total	101	1002	79	1182	72	273	233	578	167	1056	60	1283	99	225	313	637	3680
Apprch %	8.5	84.8	6.7		12.5	47.2	40.3		13	82.3	4.7		15.5	35.3	49.1		
Total %	2.7	27.2	2.1	32.1	2	7.4	6.3	15.7	4.5	28.7	1.6	34.9	2.7	6.1	8.5	17.3	
Passenger Vehicles	95	982	79	1156	71	268	229	568	158	1040	57	1255	97	225	301	623	3602
% Passenger Vehicles	94.1	98	100	97.8	98.6	98.2	98.3	98.3	94.6	98.5	95	97.8	98	100	96.2	97.8	97.9
Large 2 Axle Vehicles	4	16	0	20	0	5	0	5	9	12	1	22	1	0	12	13	60
% Large 2 Axle Vehicles	4	1.6	0	1.7	0	1.8	0	0.9	5.4	1.1	1.7	1.7	1	0	3.8	2	1.6
3 Axle Vehicles	1	2	0	3	0	0	2	2	0	3	2	5	0	0	0	0	10
% 3 Axle Vehicles	1	0.2	0	0.3	0	0	0.9	0.3	0	0.3	3.3	0.4	0	0	0	0	0.3
4+ Axle Trucks	1	2	0	3	1	0	2	3	0	1	0	1	1	0	0	1	8
% 4+ Axle Trucks	1	0.2	0	0.3	1.4	0	0.9	0.5	0	0.1	0	0.1	1	0	0	0.2	0.2

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	9	114	3	126	**12**	**62**	38	**112**	24	151	10	185	18	**56**	**75**	**149**	572
08:00 AM	**20**	128	8	156	4	26	**42**	72	21	172	**13**	206	21	30	38	89	523
08:15 AM	20	170	**23**	213	11	18	22	51	**30**	**194**	4	**228**	**34**	22	36	92	**584**
08:30 AM	17	**199**	20	**236**	5	29	33	67	28	176	4	208	7	21	33	61	572
Total Volume	66	611	54	731	32	135	135	302	103	693	31	827	80	129	182	391	2251
% App. Total	9	83.6	7.4		10.6	44.7	44.7		12.5	83.8	3.7		20.5	33	46.5		
PHF	.825	.768	.587	.774	.667	.544	.804	.674	.858	.893	.596	.907	.588	.576	.607	.656	.964

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				07:15 AM				07:45 AM				07:30 AM			
+0 mins.	**20**	128	8	156	**14**	31	13	58	24	151	10	185	9	32	58	99
+15 mins.	20	170	**23**	213	12	**65**	34	111	21	172	**13**	206	18	**56**	**75**	**149**
+30 mins.	17	**199**	20	**236**	12	62	38	**112**	**30**	**194**	4	**228**	21	30	38	89
+45 mins.	13	130	3	146	4	26	**42**	72	28	176	4	208	**34**	22	36	92
Total Volume	70	627	54	751	42	184	127	353	103	693	31	827	82	140	207	429
% App. Total	9.3	83.5	7.2		11.9	52.1	36		12.5	83.8	3.7		19.1	32.6	48.3	
PHF	.875	.788	.587	.796	.750	.708	.756	.788	.858	.893	.596	.907	.603	.625	.690	.720

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	11	45	5	61	6	11	8	25	5	43	9	57	8	19	22	49	192
07:15 AM	5	80	8	93	14	31	12	57	5	68	3	76	1	22	22	45	271
07:30 AM	6	131	9	146	12	64	33	109	28	104	7	139	9	32	57	98	492
07:45 AM	8	114	3	125	12	62	38	112	23	150	8	181	18	56	72	146	564
Total	30	370	25	425	44	168	91	303	61	365	27	453	36	129	173	338	1519
08:00 AM	18	121	8	147	4	23	41	68	18	168	13	199	20	30	38	88	502
08:15 AM	18	165	23	206	10	18	22	50	30	191	4	225	33	22	33	88	569
08:30 AM	17	196	20	233	5	29	33	67	27	175	4	206	7	21	31	59	565
08:45 AM	12	130	3	145	8	30	42	80	22	141	9	172	1	23	26	50	447
Total	65	612	54	731	27	100	138	265	97	675	30	802	61	96	128	285	2083
Grand Total	95	982	79	1156	71	268	229	568	158	1040	57	1255	97	225	301	623	3602
Apprch %	8.2	84.9	6.8		12.5	47.2	40.3		12.6	82.9	4.5		15.6	36.1	48.3		
Total %	2.6	27.3	2.2	32.1	2	7.4	6.4	15.8	4.4	28.9	1.6	34.8	2.7	6.2	8.4	17.3	

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	8	114	3	125	**12**	**62**	38	**112**	23	150	8	181	18	**56**	**72**	**146**	564
08:00 AM	**18**	121	8	147	4	23	**41**	68	18	168	**13**	199	20	30	38	88	502
08:15 AM	18	165	**23**	206	10	18	22	50	**30**	**191**	4	**225**	**33**	22	33	88	**569**
08:30 AM	17	**196**	20	**233**	5	29	33	67	27	175	4	206	7	21	31	59	565
Total Volume	61	596	54	711	31	132	134	297	98	684	29	811	78	129	174	381	2200
% App. Total	8.6	83.8	7.6		10.4	44.4	45.1		12.1	84.3	3.6		20.5	33.9	45.7		
PHF	.847	.760	.587	.763	.646	.532	.817	.663	.817	.895	.558	.901	.591	.576	.604	.652	.967

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
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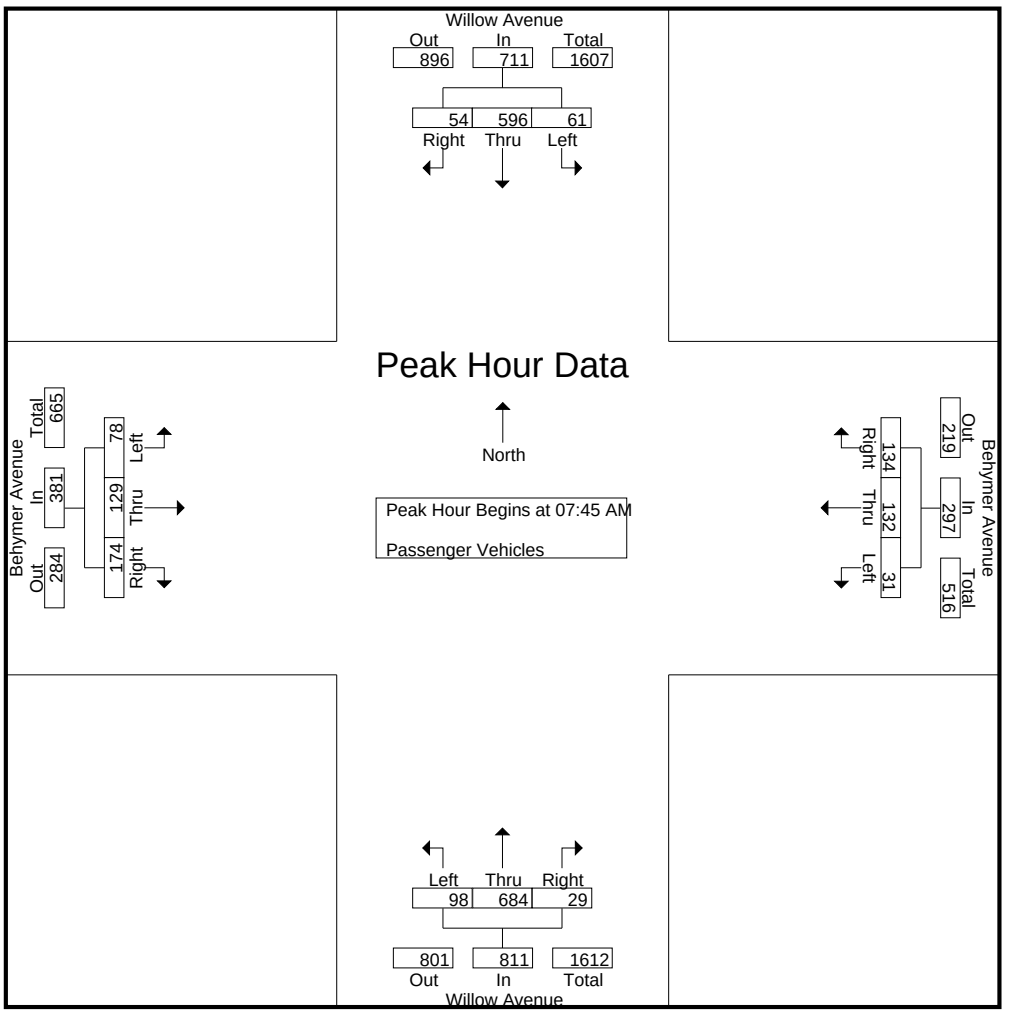

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	8	114	3	125	**12**	**62**	38	**112**	23	150	8	181	18	**56**	**72**	**146**
+15 mins.	**18**	121	8	147	4	23	**41**	68	18	168	**13**	199	20	30	38	88
+30 mins.	18	165	**23**	206	10	18	22	50	**30**	**191**	4	**225**	**33**	22	33	88
+45 mins.	17	**196**	20	**233**	5	29	33	67	27	175	4	206	7	21	31	59
Total Volume	61	596	54	711	31	132	134	297	98	684	29	811	78	129	174	381
% App. Total	8.6	83.8	7.6		10.4	44.4	45.1		12.1	84.3	3.6		20.5	33.9	45.7	
PHF	.847	.760	.587	.763	.646	.532	.817	.663	.817	.895	.558	.901	.591	.576	.604	.652

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	2	0	2	0	1	0	1	2	0	1	3	0	0	0	0	6
07:15 AM	0	2	0	2	0	0	0	0	1	2	0	3	0	0	2	2	7
07:30 AM	0	1	0	1	0	1	0	1	1	1	0	2	0	0	1	1	5
07:45 AM	0	0	0	0	0	0	0	0	1	1	0	2	0	0	3	3	5
Total	0	5	0	5	0	2	0	2	5	4	1	10	0	0	6	6	23
08:00 AM	2	4	0	6	0	3	0	3	3	3	0	6	0	0	0	0	15
08:15 AM	2	4	0	6	0	0	0	0	0	3	0	3	1	0	3	4	13
08:30 AM	0	3	0	3	0	0	0	0	1	1	0	2	0	0	2	2	7
08:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1	2
Total	4	11	0	15	0	3	0	3	4	8	0	12	1	0	6	7	37
Grand Total	4	16	0	20	0	5	0	5	9	12	1	22	1	0	12	13	60
Apprch %	20	80	0		0	100	0		40.9	54.5	4.5		7.7	0	92.3		
Total %	6.7	26.7	0	33.3	0	8.3	0	8.3	15	20	1.7	36.7	1.7	0	20	21.7	

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	1	1	0	2	0	0	**3**	3	5
08:00 AM	**2**	**4**	0	**6**	0	**3**	0	**3**	**3**	**3**	0	**6**	0	0	0	0	**15**
08:15 AM	2	4	0	6	0	0	0	0	0	3	0	3	**1**	0	3	**4**	13
08:30 AM	0	3	0	3	0	0	0	0	1	1	0	2	0	0	2	2	7
Total Volume	4	11	0	15	0	3	0	3	5	8	0	13	1	0	8	9	40
% App. Total	26.7	73.3	0		0	100	0		38.5	61.5	0		11.1	0	88.9		
PHF	.500	.688	.000	.625	.000	.250	.000	.250	.417	.667	.000	.542	.250	.000	.667	.563	.667

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
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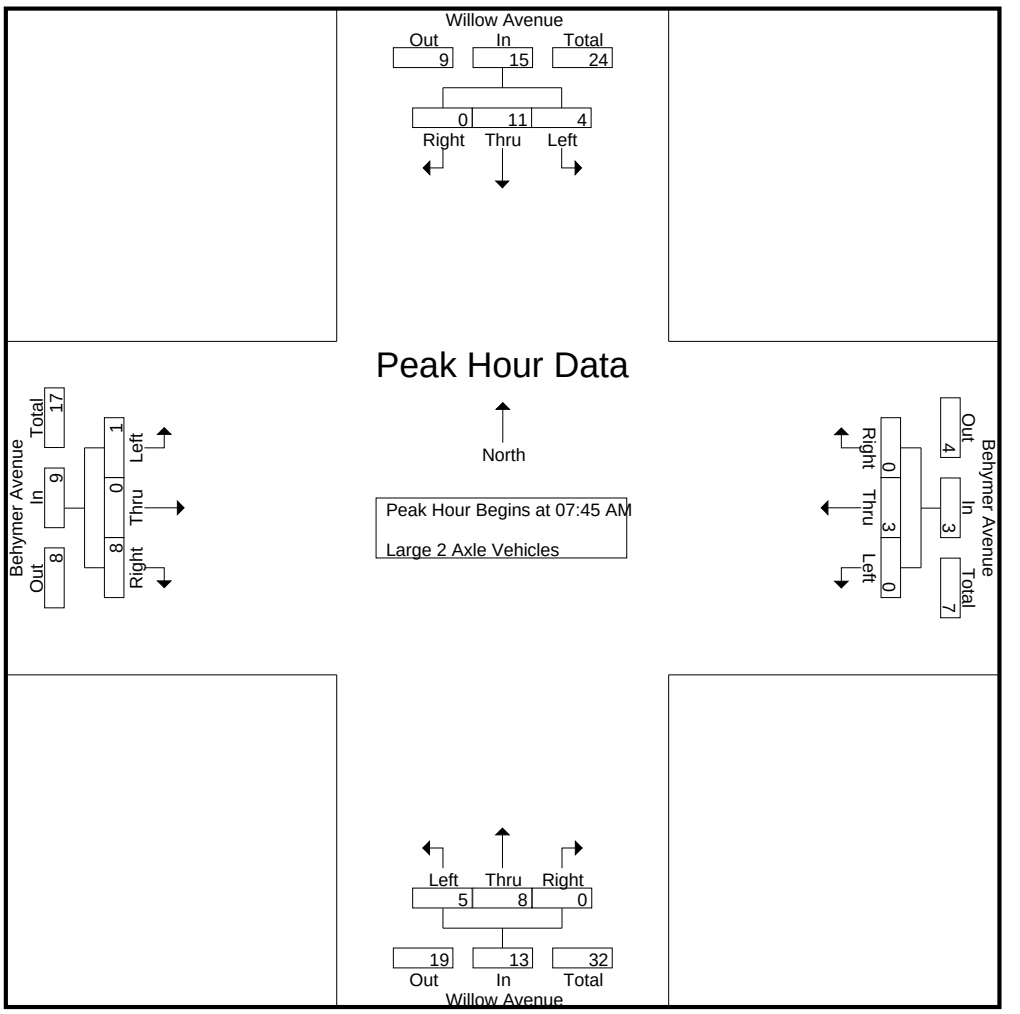

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	0	0	0	0	0	0	1	1	0	2	0	0	**3**	3
+15 mins.	**2**	**4**	0	**6**	0	**3**	0	**3**	**3**	**3**	0	**6**	0	0	0	0
+30 mins.	2	4	0	6	0	0	0	0	0	3	0	3	**1**	0	3	**4**
+45 mins.	0	3	0	3	0	0	0	0	1	1	0	2	0	0	2	2
Total Volume	4	11	0	15	0	3	0	3	5	8	0	13	1	0	8	9
% App. Total	26.7	73.3	0		0	100	0		38.5	61.5	0		11.1	0	88.9	
PHF	.500	.688	.000	.625	.000	.250	.000	.250	.417	.667	.000	.542	.250	.000	.667	.563

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1
07:30 AM	0	0	0	0	0	0	1	1	0	1	0	1	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2
Total	0	0	0	0	0	0	2	2	0	1	2	3	0	0	0	0	5
08:00 AM	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
08:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	1	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
Total	1	2	0	3	0	0	0	0	0	2	0	2	0	0	0	0	5
Grand Total	1	2	0	3	0	0	2	2	0	3	2	5	0	0	0	0	10
Apprch %	33.3	66.7	0		0	0	100		0	60	40		0	0	0		
Total %	10	20	0	30	0	0	20	20	0	30	20	50	0	0	0	0	

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	0	0	**2**	**2**	0	0	0	0	**2**
08:00 AM	0	**1**	0	**1**	0	0	0	0	0	**1**	0	1	0	0	0	0	2
08:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	2	0	2	0	0	0	0	0	1	2	3	0	0	0	0	5
% App. Total	0	100	0		0	0	0		0	33.3	66.7		0	0	0		
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.000	.250	.250	.375	.000	.000	.000	.000	.625

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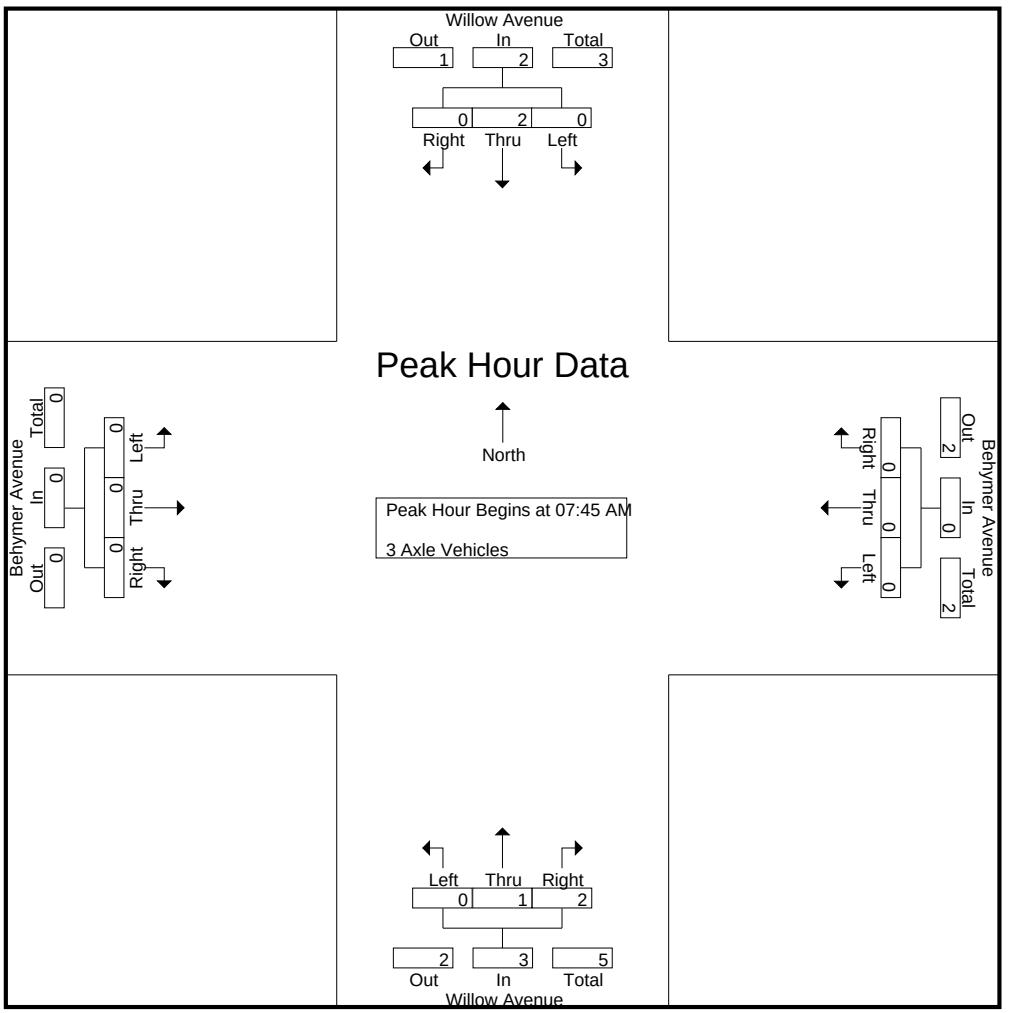
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2



Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	**2**	**2**	0	0	0	0
+15 mins.	0	**1**	0	**1**	0	0	0	0	0	**1**	0	1	0	0	0	0
+30 mins.	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	2	0	2	0	0	0	0	0	1	2	3	0	0	0	0
% App. Total	0	100	0		0	0	0		0	33.3	66.7		0	0	0	
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.000	.250	.250	.375	.000	.000	.000	.000

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
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Groups Printed- 4+ Axle Trucks

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	1	1	0	1	0	1	0	0	0	0	2
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	1	0	0	1	0	0	1	1	0	1	0	1	0	0	0	0	3
08:00 AM	0	2	0	2	0	0	1	1	0	0	0	0	1	0	0	1	4
08:15 AM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	0	2	1	0	1	2	0	0	0	0	1	0	0	1	5
Grand Total	1	2	0	3	1	0	2	3	0	1	0	1	1	0	0	1	8
Apprch %	33.3	66.7	0		33.3	0	66.7		0	100	0		100	0	0		
Total %	12.5	25	0	37.5	12.5	0	25	37.5	0	12.5	0	12.5	12.5	0	0	12.5	

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	**1**	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:00 AM	0	**2**	0	**2**	0	0	**1**	**1**	0	0	0	0	**1**	0	0	**1**	**4**
08:15 AM	0	0	0	0	**1**	0	0	1	0	0	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	2	0	3	1	0	1	2	0	0	0	0	1	0	0	1	6
% App. Total	33.3	66.7	0		50	0	50		0	0	0		100	0	0		
PHF	.250	.250	.000	.375	.250	.000	.250	.500	.000	.000	.000	.000	.250	.000	.000	.250	.375

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City of Clovis
N/S: Willow Avenue
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File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
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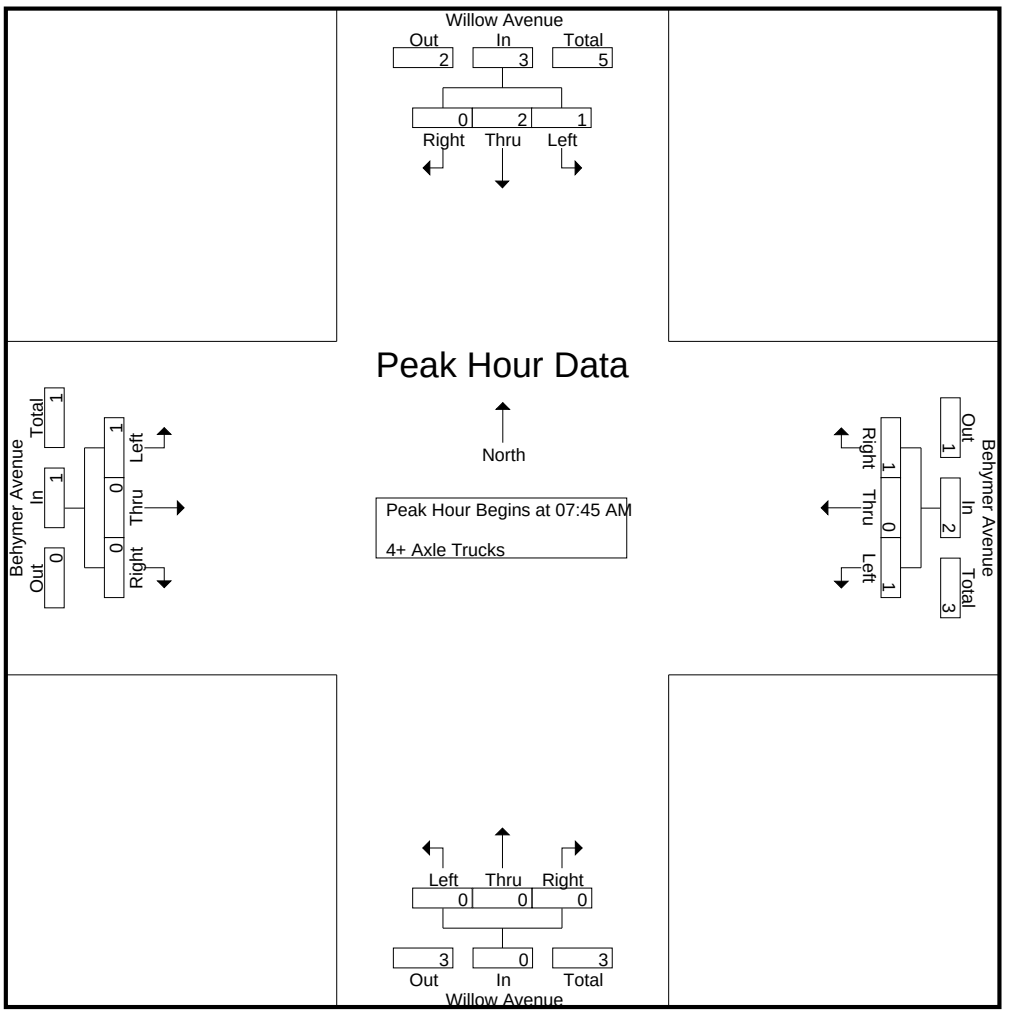

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	**1**	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	**2**	0	**2**	0	0	**1**	**1**	0	0	0	0	**1**	0	0	**1**
+30 mins.	0	0	0	0	**1**	0	0	1	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	2	0	3	1	0	1	2	0	0	0	0	1	0	0	1
% App. Total	33.3	66.7	0		50	0	50		0	0	0		100	0	0	
PHF	.250	.250	.000	.375	.250	.000	.250	.500	.000	.000	.000	.000	.250	.000	.000	.250

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	37	127	3	167	17	34	21	72	28	138	15	181	9	20	36	65	485
04:15 PM	21	119	3	143	15	30	14	59	18	114	14	146	5	20	20	45	393
04:30 PM	40	145	11	196	7	29	18	54	26	157	18	201	5	18	22	45	496
04:45 PM	20	123	8	151	10	30	20	60	23	139	16	178	4	18	33	55	444
Total	118	514	25	657	49	123	73	245	95	548	63	706	23	76	111	210	1818
05:00 PM	37	170	14	221	9	37	21	67	24	162	14	200	4	40	39	83	571
05:15 PM	26	121	5	152	17	38	25	80	35	169	15	219	4	23	28	55	506
05:30 PM	18	144	13	175	13	25	34	72	25	182	14	221	7	25	30	62	530
05:45 PM	14	125	8	147	16	38	39	93	35	218	11	264	6	16	24	46	550
Total	95	560	40	695	55	138	119	312	119	731	54	904	21	104	121	246	2157
Grand Total	213	1074	65	1352	104	261	192	557	214	1279	117	1610	44	180	232	456	3975
Apprch %	15.8	79.4	4.8		18.7	46.9	34.5		13.3	79.4	7.3		9.6	39.5	50.9		
Total %	5.4	27	1.6	34	2.6	6.6	4.8	14	5.4	32.2	2.9	40.5	1.1	4.5	5.8	11.5	
Passenger Vehicles	212	1067	65	1344	104	261	190	555	210	1271	116	1597	44	174	230	448	3944
% Passenger Vehicles	99.5	99.3	100	99.4	100	100	99	99.6	98.1	99.4	99.1	99.2	100	96.7	99.1	98.2	99.2
Large 2 Axle Vehicles	1	6	0	7	0	0	2	2	4	4	1	9	0	6	2	8	26
% Large 2 Axle Vehicles	0.5	0.6	0	0.5	0	0	1	0.4	1.9	0.3	0.9	0.6	0	3.3	0.9	1.8	0.7
3 Axle Vehicles	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	3
% 3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0.2	0	0.2	0	0	0	0	0.1
4+ Axle Trucks	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
% 4+ Axle Trucks	0	0.1	0	0.1	0	0	0	0	0	0.1	0	0.1	0	0	0	0	0.1

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	**37**	**170**	**14**	**221**	9	37	21	67	24	162	14	200	4	**40**	**39**	**83**	**571**
05:15 PM	26	121	5	152	**17**	**38**	25	80	**35**	169	**15**	219	4	23	28	55	506
05:30 PM	18	144	13	175	13	25	34	72	25	182	14	221	**7**	25	30	62	530
05:45 PM	14	125	8	147	16	38	**39**	**93**	35	**218**	11	**264**	6	16	24	46	550
Total Volume	95	560	40	695	55	138	119	312	119	731	54	904	21	104	121	246	2157
% App. Total	13.7	80.6	5.8		17.6	44.2	38.1		13.2	80.9	6		8.5	42.3	49.2		
PHF	.642	.824	.714	.786	.809	.908	.763	.839	.850	.838	.900	.856	.750	.650	.776	.741	.944

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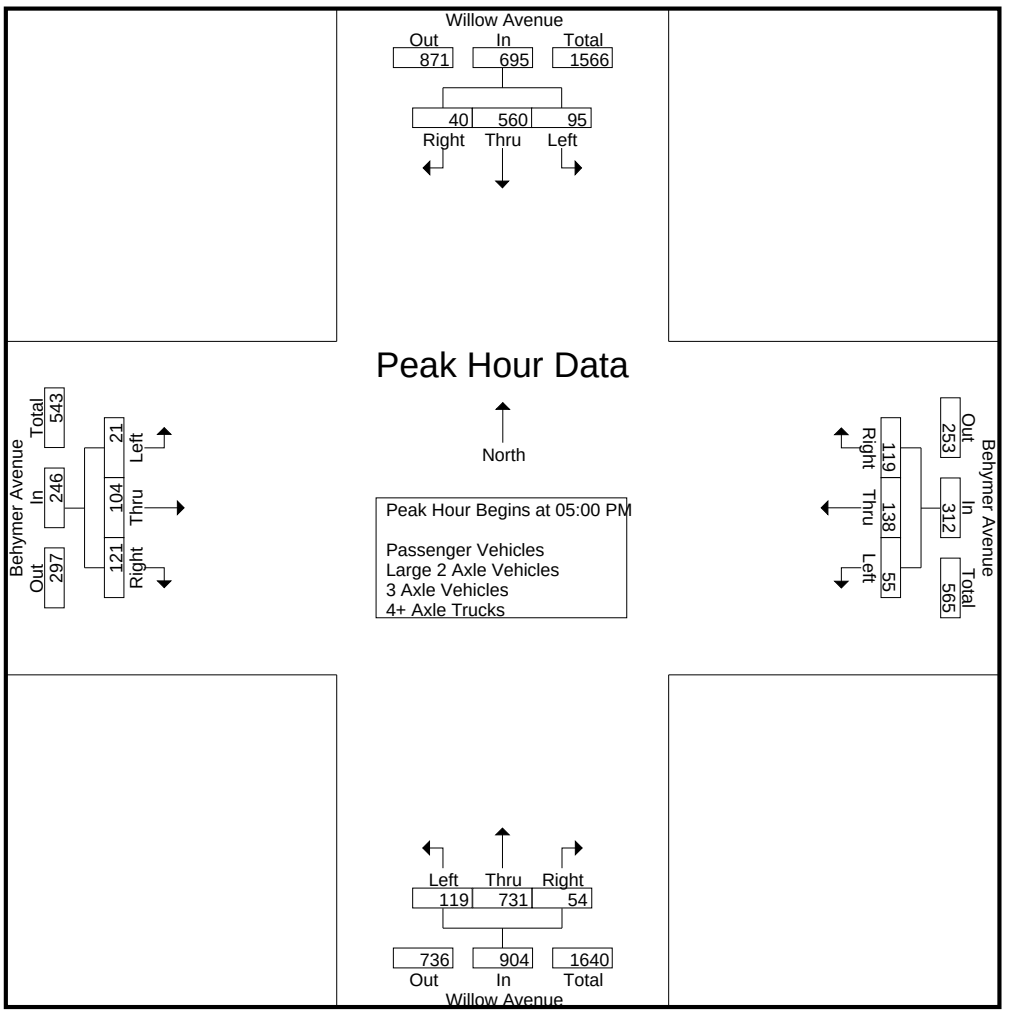
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				05:00 PM				05:00 PM				04:45 PM			
+0 mins.	**40**	145	11	196	9	37	21	67	24	162	14	200	4	18	33	55
+15 mins.	20	123	8	151	**17**	**38**	25	80	**35**	169	**15**	219	4	**40**	**39**	**83**
+30 mins.	37	**170**	**14**	**221**	13	25	34	72	25	182	14	221	4	23	28	55
+45 mins.	26	121	5	152	16	38	**39**	**93**	35	**218**	11	**264**	**7**	25	30	62
Total Volume	123	559	38	720	55	138	119	312	119	731	54	904	19	106	130	255
% App. Total	17.1	77.6	5.3		17.6	44.2	38.1		13.2	80.9	6		7.5	41.6	51	
PHF	.769	.822	.679	.814	.809	.908	.763	.839	.850	.838	.900	.856	.679	.663	.833	.768

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
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Groups Printed- Passenger Vehicles

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	37	125	3	165	17	34	21	72	28	137	15	180	9	19	36	64	481
04:15 PM	20	118	3	141	15	30	14	59	17	113	14	144	5	19	19	43	387
04:30 PM	40	144	11	195	7	29	18	54	25	157	17	199	5	18	22	45	493
04:45 PM	20	122	8	150	10	30	18	58	23	138	16	177	4	18	33	55	440
Total	117	509	25	651	49	123	71	243	93	545	62	700	23	74	110	207	1801
05:00 PM	37	169	14	220	9	37	21	67	24	160	14	198	4	37	38	79	564
05:15 PM	26	121	5	152	17	38	25	80	34	167	15	216	4	23	28	55	503
05:30 PM	18	143	13	174	13	25	34	72	25	181	14	220	7	25	30	62	528
05:45 PM	14	125	8	147	16	38	39	93	34	218	11	263	6	15	24	45	548
Total	95	558	40	693	55	138	119	312	117	726	54	897	21	100	120	241	2143
Grand Total	212	1067	65	1344	104	261	190	555	210	1271	116	1597	44	174	230	448	3944
Apprch %	15.8	79.4	4.8		18.7	47	34.2		13.1	79.6	7.3		9.8	38.8	51.3		
Total %	5.4	27.1	1.6	34.1	2.6	6.6	4.8	14.1	5.3	32.2	2.9	40.5	1.1	4.4	5.8	11.4	

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	**37**	**169**	**14**	**220**	9	37	21	67	24	160	14	198	4	**37**	**38**	**79**	**564**
05:15 PM	26	121	5	152	**17**	**38**	25	80	**34**	167	**15**	216	4	23	28	55	503
05:30 PM	18	143	13	174	13	25	34	72	25	181	14	220	**7**	25	30	62	528
05:45 PM	14	125	8	147	16	38	**39**	**93**	34	**218**	11	**263**	6	15	24	45	548
Total Volume	95	558	40	693	55	138	119	312	117	726	54	897	21	100	120	241	2143
% App. Total	13.7	80.5	5.8		17.6	44.2	38.1		13	80.9	6		8.7	41.5	49.8		
PHF	.642	.825	.714	.788	.809	.908	.763	.839	.860	.833	.900	.853	.750	.676	.789	.763	.950

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
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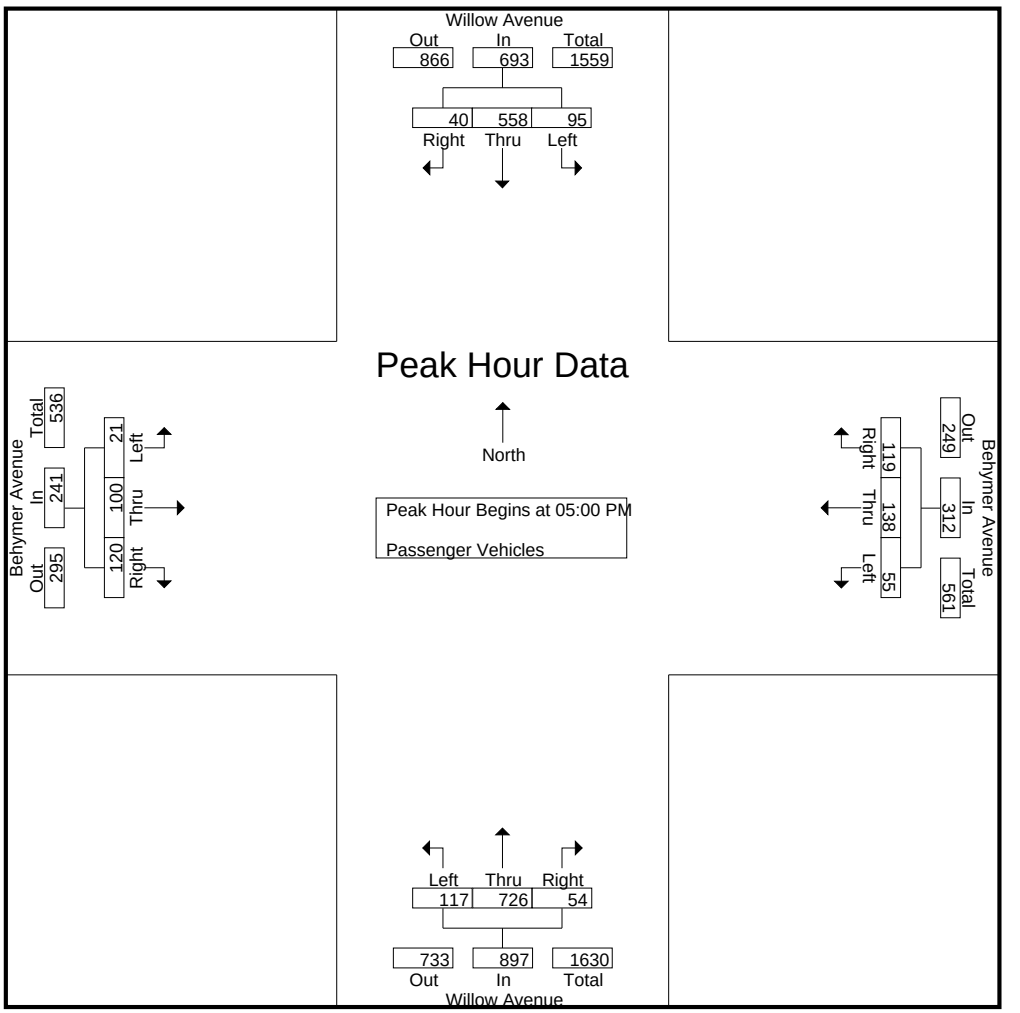

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	**37**	**169**	**14**	**220**	9	37	21	67	24	160	14	198	4	**37**	**38**	**79**
+15 mins.	26	121	5	152	**17**	**38**	25	80	**34**	167	**15**	216	4	23	28	55
+30 mins.	18	143	13	174	13	25	34	72	25	181	14	220	**7**	25	30	62
+45 mins.	14	125	8	147	16	38	**39**	**93**	34	**218**	11	**263**	6	15	24	45
Total Volume	95	558	40	693	55	138	119	312	117	726	54	897	21	100	120	241
% App. Total	13.7	80.5	5.8		17.6	44.2	38.1		13	80.9	6		8.7	41.5	49.8	
PHF	.642	.825	.714	.788	.809	.908	.763	.839	.860	.833	.900	.853	.750	.676	.789	.763

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
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Groups Printed- Large 2 Axle Vehicles

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	2	0	2	0	0	0	0	0	1	0	1	0	1	0	1	4
04:15 PM	1	0	0	1	0	0	0	0	1	1	0	2	0	1	1	2	5
04:30 PM	0	1	0	1	0	0	0	0	1	0	1	2	0	0	0	0	3
04:45 PM	0	1	0	1	0	0	2	2	0	0	0	0	0	0	0	0	3
Total	1	4	0	5	0	0	2	2	2	2	1	5	0	2	1	3	15
05:00 PM	0	1	0	1	0	0	0	0	0	1	0	1	0	3	1	4	6
05:15 PM	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	2
05:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	2
Total	0	2	0	2	0	0	0	0	2	2	0	4	0	4	1	5	11
Grand Total	1	6	0	7	0	0	2	2	4	4	1	9	0	6	2	8	26
Apprch %	14.3	85.7	0		0	0	100		44.4	44.4	11.1		0	75	25		
Total %	3.8	23.1	0	26.9	0	0	7.7	7.7	15.4	15.4	3.8	34.6	0	23.1	7.7	30.8	

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	**1**	0	**1**	0	0	0	0	0	**1**	0	1	0	**3**	**1**	**4**	**6**
05:15 PM	0	0	0	0	0	0	0	0	**1**	1	0	**2**	0	0	0	0	2
05:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	2
Total Volume	0	2	0	2	0	0	0	0	2	2	0	4	0	4	1	5	11
% App. Total	0	100	0		0	0	0		50	50	0		0	80	20		
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.500	.500	.000	.500	.000	.333	.250	.313	.458

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
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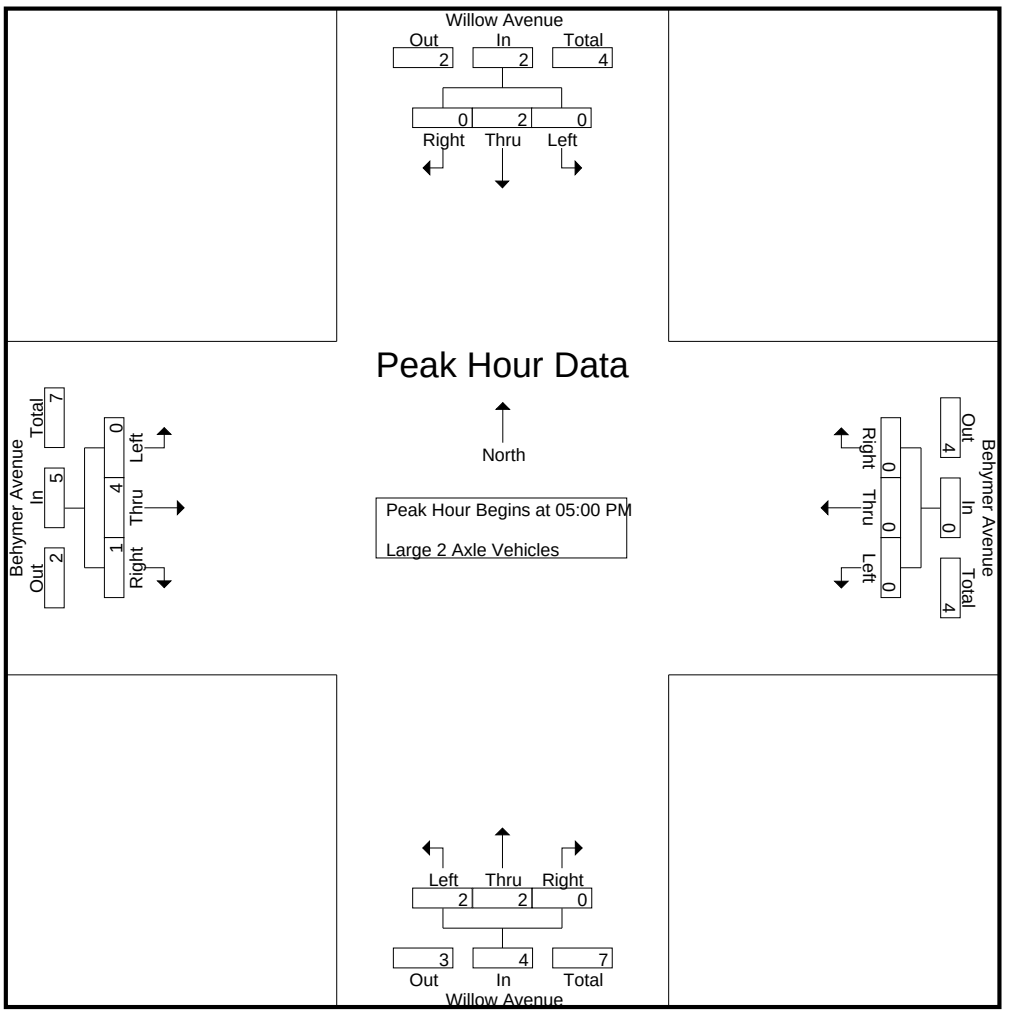

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	**1**	0	**1**	0	0	0	0	0	**1**	0	1	0	**3**	**1**	**4**
+15 mins.	0	0	0	0	0	0	0	0	**1**	1	0	**2**	0	0	0	0
+30 mins.	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1
Total Volume	0	2	0	2	0	0	0	0	2	2	0	4	0	4	1	5
% App. Total	0	100	0		0	0	0		50	50	0		0	80	20	
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.500	.500	.000	.500	.000	.333	.250	.313

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
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Groups Printed- 3 Axle Vehicles

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
Grand Total	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	3
Apprch %	0	0	0		0	0	0		0	100	0		0	0	0		
Total %	0	0	0	0	0	0	0	0	0	100	0	100	0	0	0	0	

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	**1**	0	**1**	0	0	0	0	**1**
05:30 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
% App. Total	0	0	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.500	.000	.500	.000	.000	.000	.000	.500

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
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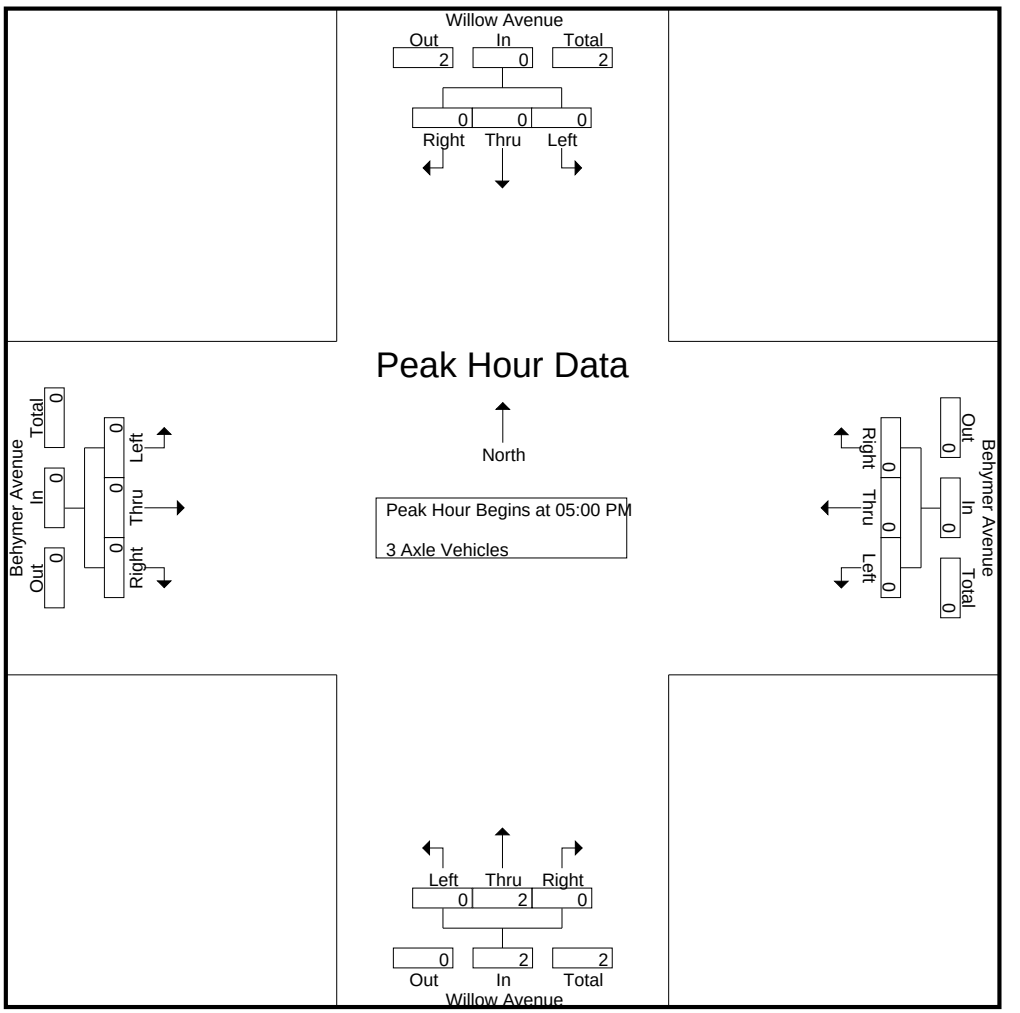

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	**1**	0	**1**	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0
% App. Total	0	0	0		0	0	0		0	100	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.500	.000	.500	.000	.000	.000	.000

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
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Groups Printed- 4+ Axle Trucks

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
Grand Total	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
Apprch %	0	100	0		0	0	0		0	100	0		0	0	0		
Total %	0	50	0	50	0	0	0	0	0	50	0	50	0	0	0	0	

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	0	0	0	0	**1**	0	**1**	0	0	0	0	**1**
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
% App. Total	0	0	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.000	.250	.000	.000	.000	.000	.250

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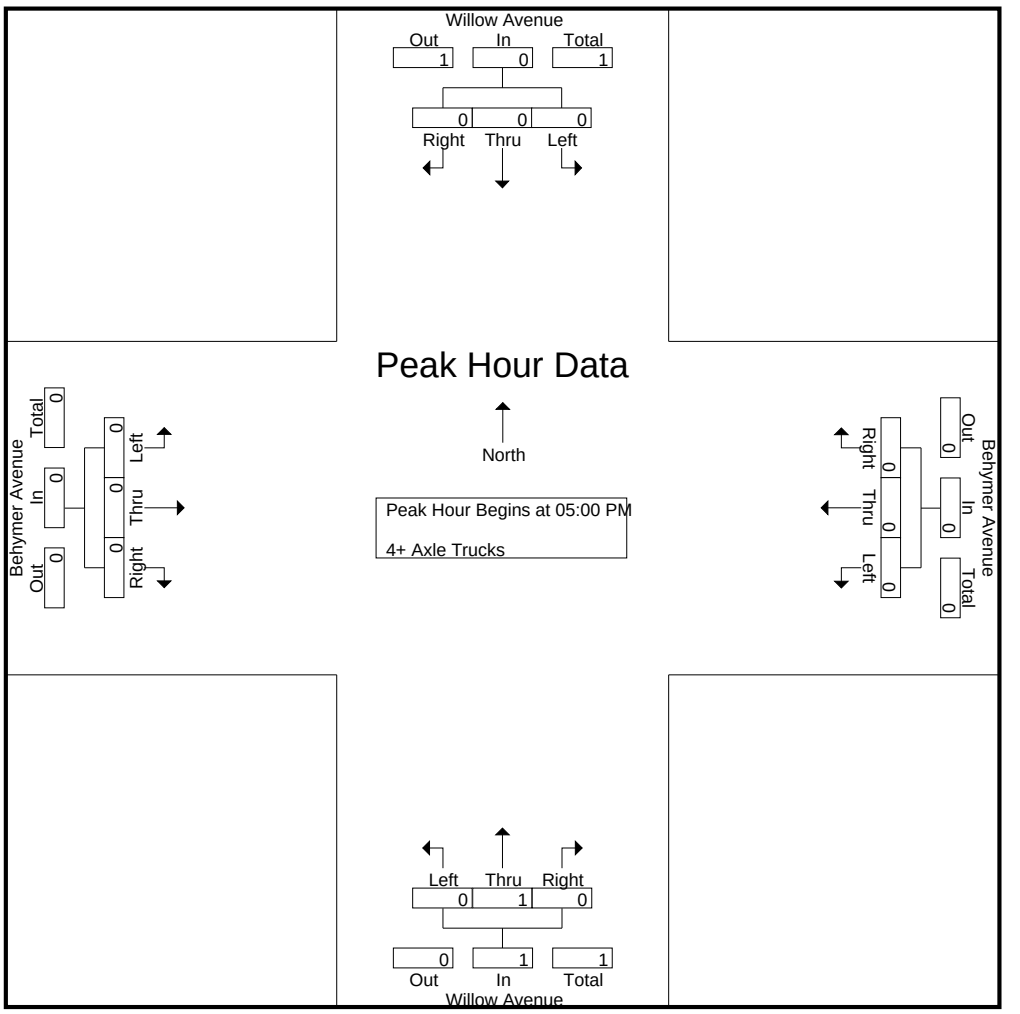
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	**1**	0	**1**	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
% App. Total	0	0	0		0	0	0		0	100	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.000	.250	.000	.000	.000	.000

Location: Clovis
N/S: Willow Avenue
E/W: Behymer Avenue

Date: 3/6/2024
Day: Wednesday

PEDESTRIANS

	North Leg Willow Avenue	East Leg Behymer Avenue	South Leg Willow Avenue	West Leg Behymer Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	0	1	1
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	1	1
7:45 AM	0	0	0	1	1
8:00 AM	0	0	0	4	4
8:15 AM	0	0	0	2	2
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	9	9

	North Leg Willow Avenue	East Leg Behymer Avenue	South Leg Willow Avenue	West Leg Behymer Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	1	1
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	1	1
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	2	2

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Location: Clovis
N/S: Willow Avenue
E/W: Behymer Avenue

Date: 3/6/2024
Day: Wednesday

BICYCLES

	Southbound Willow Avenue			Westbound Behymer Avenue			Northbound Willow Avenue			Eastbound Behymer Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	2	0	0	0	1	3
7:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	1
7:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:00 AM	0	0	0	0	0	0	0	3	0	2	0	0	5
8:15 AM	0	0	0	0	0	0	0	3	0	0	0	0	3
8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	1	0	1	0	0	2
TOTAL VOLUMES:	0	0	0	0	0	0	0	11	0	4	0	1	16

	Southbound Willow Avenue			Westbound Behymer Avenue			Northbound Willow Avenue			Eastbound Behymer Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	3	0	0	0	0	0	1	0	0	0	0	4
4:30 PM	0	0	0	0	0	0	0	2	0	0	0	0	2
4:45 PM	0	2	0	0	0	0	0	3	0	0	0	0	5
5:00 PM	0	4	0	0	0	0	0	0	0	0	0	0	4
5:15 PM	0	2	1	0	0	0	0	0	0	0	0	0	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	1
TOTAL VOLUMES:	0	12	1	0	0	0	0	6	0	1	0	0	20

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	73	6	79	24	45	69	13	47	60	208
07:15 AM	124	10	134	22	84	106	10	56	66	306
07:30 AM	177	21	198	46	108	154	29	69	98	450
07:45 AM	181	22	203	24	170	194	29	59	88	485
Total	555	59	614	116	407	523	81	231	312	1449
08:00 AM	171	16	187	29	165	194	56	29	85	466
08:15 AM	181	27	208	16	168	184	51	46	97	489
08:30 AM	225	34	259	19	182	201	29	33	62	522
08:45 AM	159	12	171	29	149	178	25	25	50	399
Total	736	89	825	93	664	757	161	133	294	1876
Grand Total	1291	148	1439	209	1071	1280	242	364	606	3325
Apprch %	89.7	10.3		16.3	83.7		39.9	60.1		
Total %	38.8	4.5	43.3	6.3	32.2	38.5	7.3	10.9	18.2	
Passenger Vehicles	1258	147	1405	208	1046	1254	239	358	597	3256
% Passenger Vehicles	97.4	99.3	97.6	99.5	97.7	98	98.8	98.4	98.5	97.9
Large 2 Axle Vehicles	28	1	29	0	19	19	2	4	6	54
% Large 2 Axle Vehicles	2.2	0.7	2	0	1.8	1.5	0.8	1.1	1	1.6
3 Axle Vehicles	3	0	3	1	5	6	1	1	2	11
% 3 Axle Vehicles	0.2	0	0.2	0.5	0.5	0.5	0.4	0.3	0.3	0.3
4+ Axle Trucks	2	0	2	0	1	1	0	1	1	4
% 4+ Axle Trucks	0.2	0	0.1	0	0.1	0.1	0	0.3	0.2	0.1

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	181	22	203	24	170	194	29	**59**	88	485
08:00 AM	171	16	187	**29**	165	194	**56**	29	85	466
08:15 AM	181	27	208	16	168	184	51	46	**97**	489
08:30 AM	**225**	**34**	**259**	19	**182**	**201**	29	33	62	**522**
Total Volume	758	99	857	88	685	773	165	167	332	1962
% App. Total	88.4	11.6		11.4	88.6		49.7	50.3		
PHF	.842	.728	.827	.759	.941	.961	.737	.708	.856	.940

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
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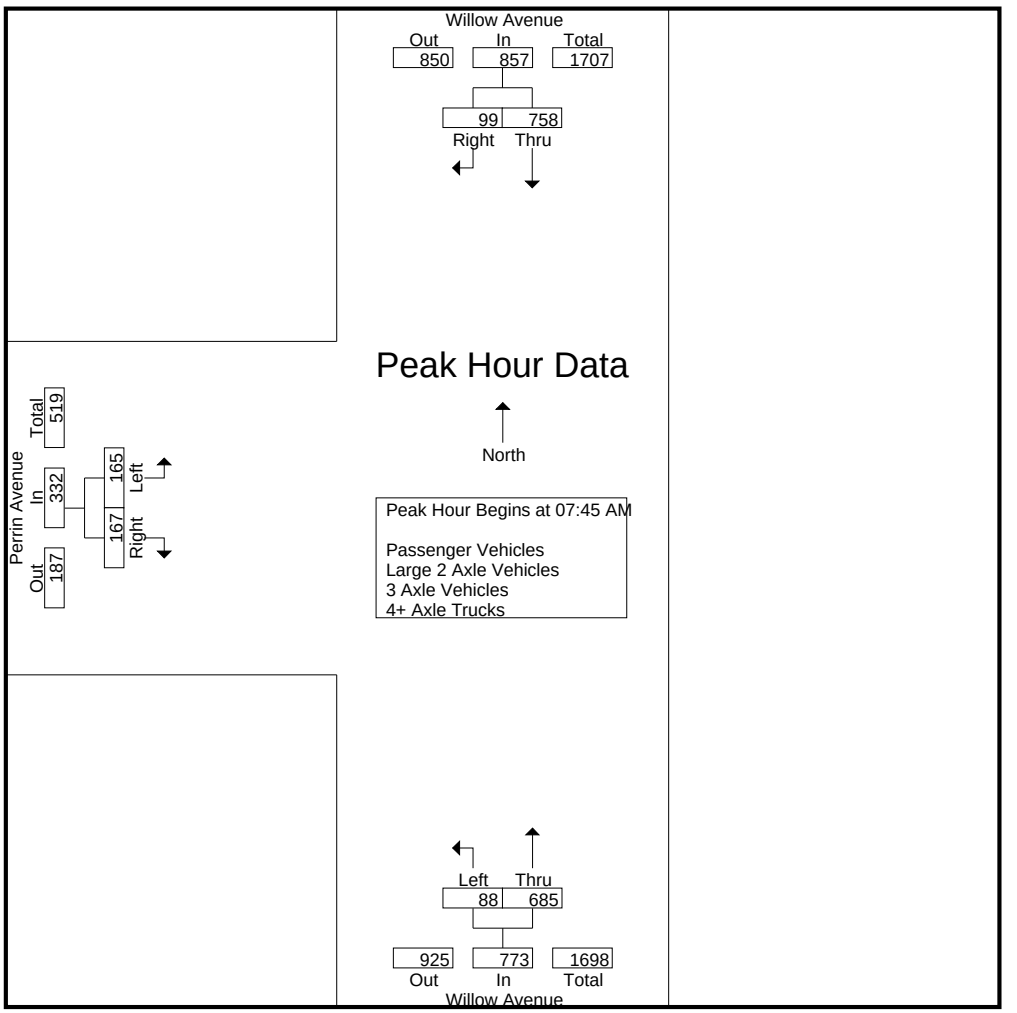

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:45 AM			07:30 AM		
+0 mins.	181	22	203	24	170	194	29	**69**	**98**
+15 mins.	171	16	187	**29**	165	194	29	59	88
+30 mins.	181	27	208	16	168	184	**56**	29	85
+45 mins.	**225**	**34**	**259**	19	**182**	**201**	51	46	97
Total Volume	758	99	857	88	685	773	165	203	368
% App. Total	88.4	11.6		11.4	88.6		44.8	55.2	
PHF	.842	.728	.827	.759	.941	.961	.737	.736	.939

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	71	6	77	24	42	66	13	47	60	203
07:15 AM	120	10	130	22	80	102	10	55	65	297
07:30 AM	175	21	196	46	106	152	29	67	96	444
07:45 AM	178	22	200	23	165	188	28	57	85	473
Total	544	59	603	115	393	508	80	226	306	1417
08:00 AM	163	16	179	29	161	190	54	28	82	451
08:15 AM	173	26	199	16	165	181	51	46	97	477
08:30 AM	220	34	254	19	179	198	29	33	62	514
08:45 AM	158	12	170	29	148	177	25	25	50	397
Total	714	88	802	93	653	746	159	132	291	1839
Grand Total	1258	147	1405	208	1046	1254	239	358	597	3256
Apprch %	89.5	10.5		16.6	83.4		40	60		
Total %	38.6	4.5	43.2	6.4	32.1	38.5	7.3	11	18.3	

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	178	22	200	23	165	188	28	**57**	85	473
08:00 AM	163	16	179	**29**	161	190	**54**	28	82	451
08:15 AM	173	26	199	16	165	181	51	46	**97**	477
08:30 AM	**220**	**34**	**254**	19	**179**	**198**	29	33	62	**514**
Total Volume	734	98	832	87	670	757	162	164	326	1915
% App. Total	88.2	11.8		11.5	88.5		49.7	50.3		
PHF	.834	.721	.819	.750	.936	.956	.750	.719	.840	.931

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
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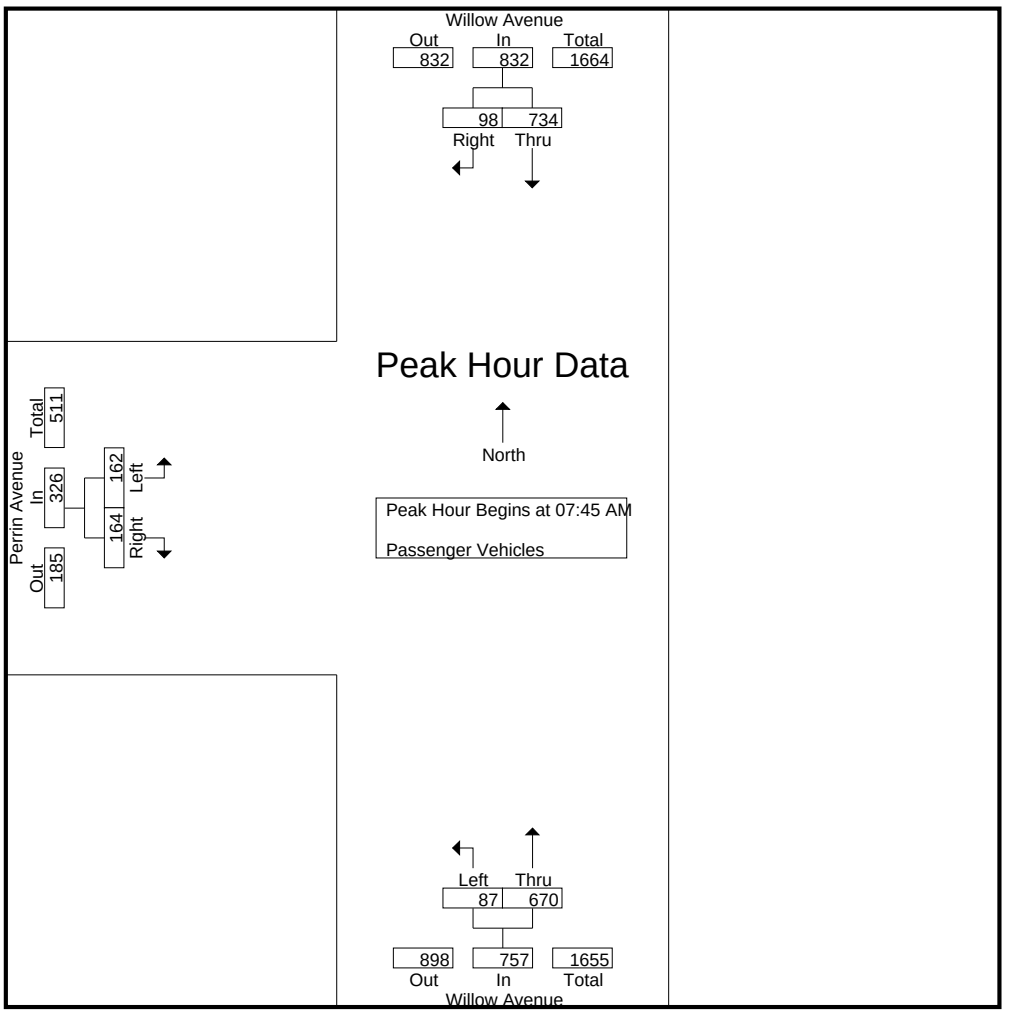

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:45 AM			07:45 AM		
+0 mins.	178	22	200	23	165	188	28	**57**	85
+15 mins.	163	16	179	**29**	161	190	**54**	28	82
+30 mins.	173	26	199	16	165	181	51	46	**97**
+45 mins.	**220**	**34**	**254**	19	**179**	**198**	29	33	62
Total Volume	734	98	832	87	670	757	162	164	326
% App. Total	88.2	11.8		11.5	88.5		49.7	50.3	
PHF	.834	.721	.819	.750	.936	.956	.750	.719	.840

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	2	0	2	0	2	2	0	0	0	4
07:15 AM	4	0	4	0	4	4	0	0	0	8
07:30 AM	2	0	2	0	1	1	0	1	1	4
07:45 AM	3	0	3	0	2	2	1	2	3	8
Total	11	0	11	0	9	9	1	3	4	24
08:00 AM	5	0	5	0	4	4	1	1	2	11
08:15 AM	6	1	7	0	3	3	0	0	0	10
08:30 AM	5	0	5	0	3	3	0	0	0	8
08:45 AM	1	0	1	0	0	0	0	0	0	1
Total	17	1	18	0	10	10	1	1	2	30
Grand Total	28	1	29	0	19	19	2	4	6	54
Apprch %	96.6	3.4		0	100		33.3	66.7		
Total %	51.9	1.9	53.7	0	35.2	35.2	3.7	7.4	11.1	

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	3	0	3	0	2	2	**1**	**2**	**3**	8
08:00 AM	5	0	5	0	**4**	**4**	1	1	2	**11**
08:15 AM	**6**	**1**	**7**	0	3	3	0	0	0	10
08:30 AM	5	0	5	0	3	3	0	0	0	8
Total Volume	19	1	20	0	12	12	2	3	5	37
% App. Total	95	5		0	100		40	60		
PHF	.792	.250	.714	.000	.750	.750	.500	.375	.417	.841

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
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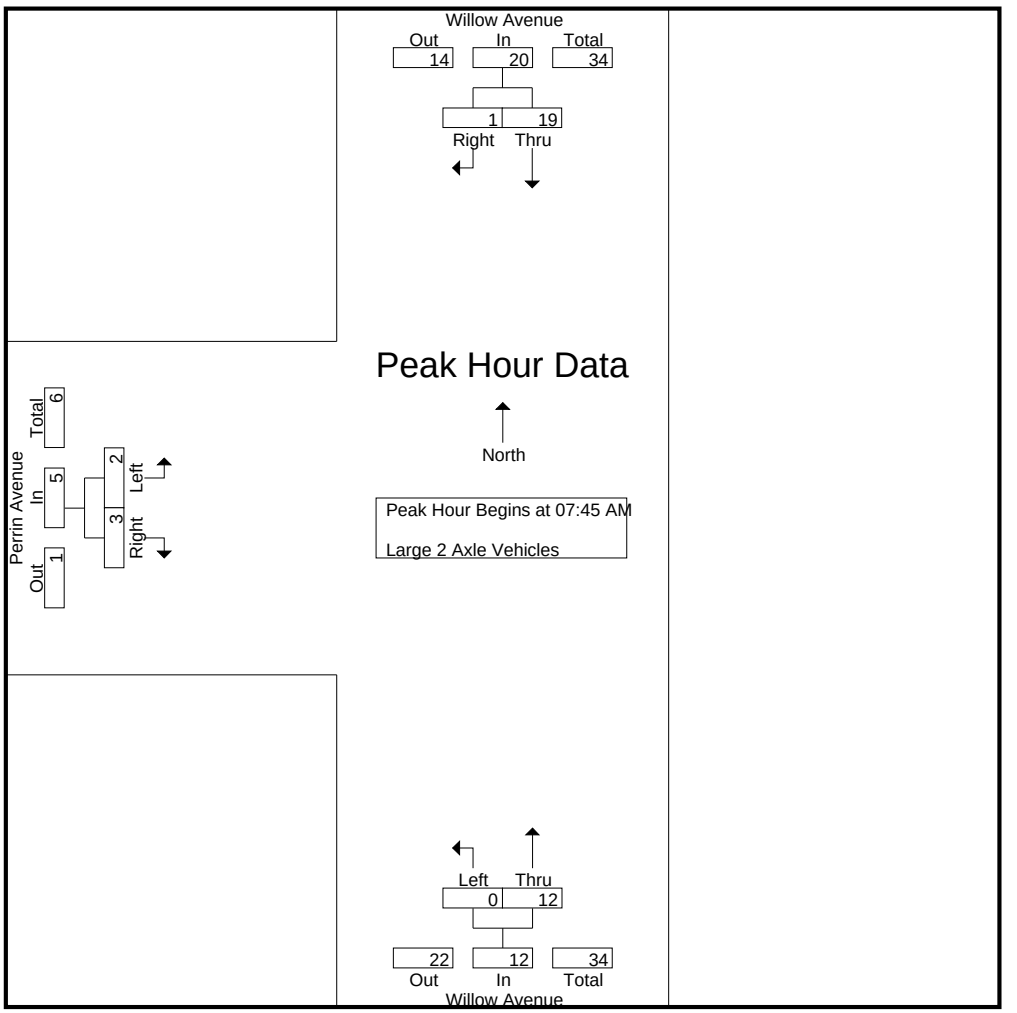

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:45 AM			07:45 AM		
+0 mins.	3	0	3	0	2	2	**1**	**2**	**3**
+15 mins.	5	0	5	0	**4**	**4**	1	1	2
+30 mins.	**6**	**1**	**7**	0	3	3	0	0	0
+45 mins.	5	0	5	0	3	3	0	0	0
Total Volume	19	1	20	0	12	12	2	3	5
% App. Total	95	5		0	100		40	60	
PHF	.792	.250	.714	.000	.750	.750	.500	.375	.417

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	1	1	0	1	1	2
07:45 AM	0	0	0	1	3	4	0	0	0	4
Total	0	0	0	1	4	5	0	1	1	6
08:00 AM	2	0	2	0	0	0	1	0	1	3
08:15 AM	1	0	1	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	1	1	0	0	0	1
Total	3	0	3	0	1	1	1	0	1	5
Grand Total	3	0	3	1	5	6	1	1	2	11
Apprch %	100	0		16.7	83.3		50	50		
Total %	27.3	0	27.3	9.1	45.5	54.5	9.1	9.1	18.2	

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	0	0	0	**1**	**3**	**4**	0	0	0	**4**
08:00 AM	**2**	0	**2**	0	0	0	**1**	0	**1**	3
08:15 AM	1	0	1	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	3	0	3	1	3	4	1	0	1	8
% App. Total	100	0		25	75		100	0		
PHF	.375	.000	.375	.250	.250	.250	.250	.000	.250	.500

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
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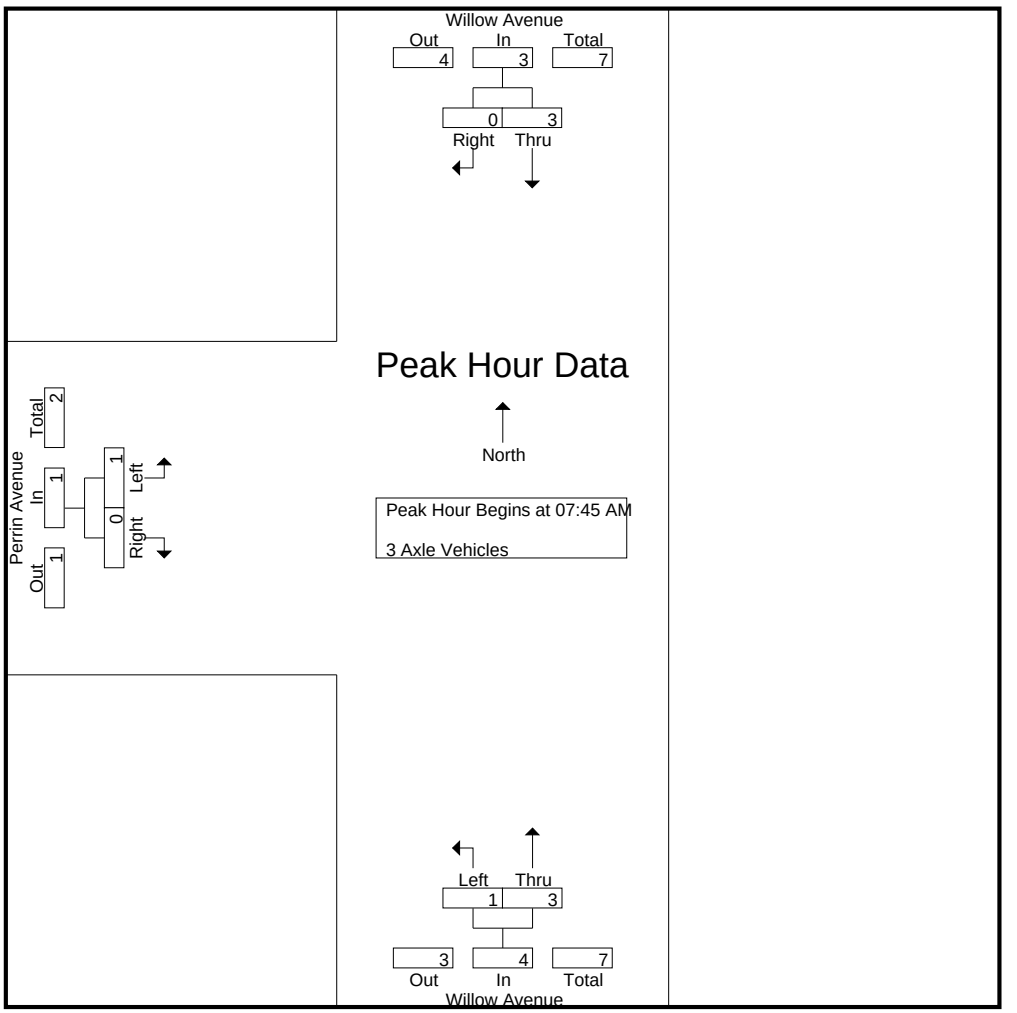

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:45 AM			07:45 AM		
+0 mins.	0	0	0	**1**	**3**	**4**	0	0	0
+15 mins.	**2**	0	**2**	0	0	0	**1**	0	**1**
+30 mins.	1	0	1	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	3	0	3	1	3	4	1	0	1
% App. Total	100	0		25	75		100	0	
PHF	.375	.000	.375	.250	.250	.250	.250	.000	.250

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	1	1	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	1	1	1
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	1	0	1	1	2
08:00 AM	1	0	1	0	0	0	0	0	0	1
08:15 AM	1	0	1	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	2	0	2	0	0	0	0	0	0	2
Grand Total	2	0	2	0	1	1	0	1	1	4
Apprch %	100	0		0	100		0	100		
Total %	50	0	50	0	25	25	0	25	25	

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	0	0	0	0	0	0	0	0	0	0
08:00 AM	**1**	0	**1**	0	0	0	0	0	0	**1**
08:15 AM	1	0	1	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	2	0	2	0	0	0	0	0	0	2
% App. Total	100	0		0	0		0	0		
PHF	.500	.000	.500	.000	.000	.000	.000	.000	.000	.500

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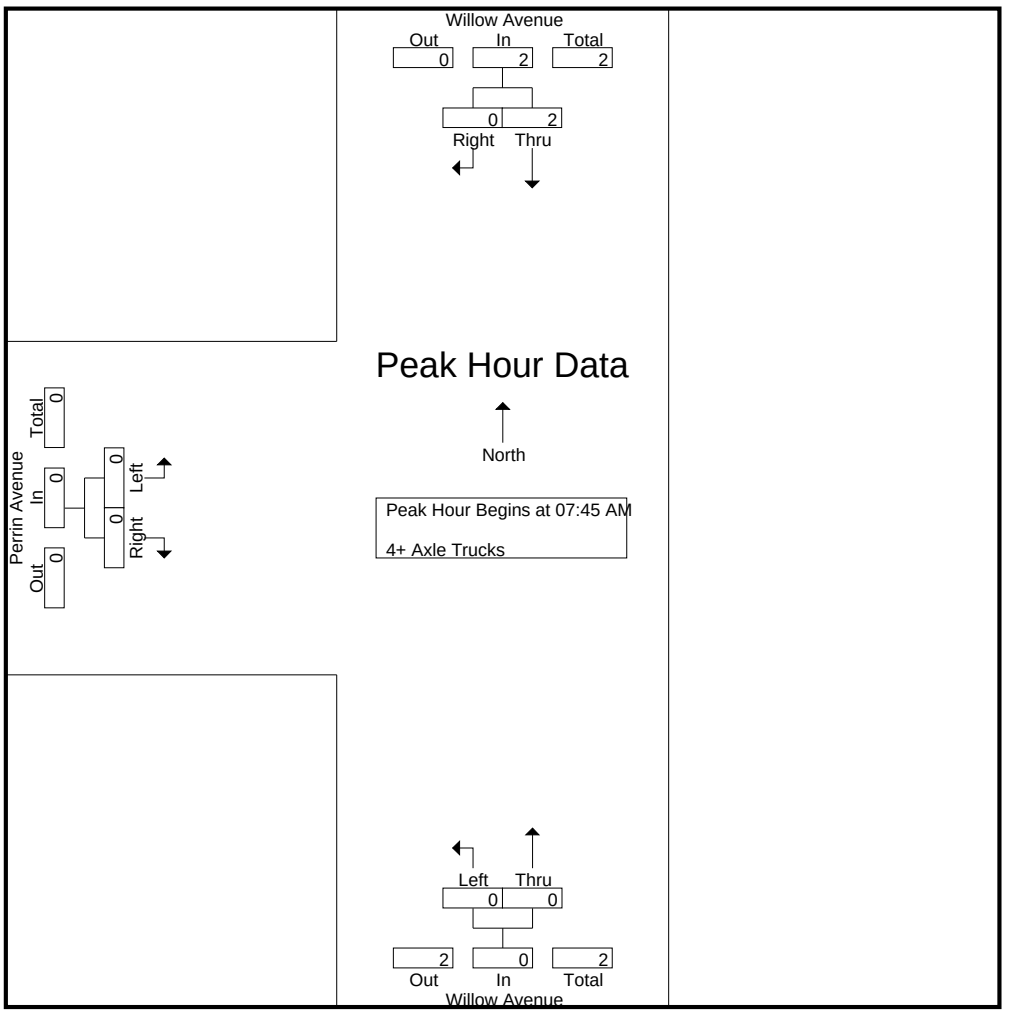
City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2



Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:45 AM			07:45 AM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	**1**	0	**1**	0	0	0	0	0	0
+30 mins.	1	0	1	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	2	0	2	0	0	0	0	0	0
% App. Total	100	0		0	0		0	0	
PHF	.500	.000	.500	.000	.000	.000	.000	.000	.000

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	170	19	189	42	171	213	27	36	63	465
04:15 PM	135	20	155	47	144	191	21	40	61	407
04:30 PM	164	13	177	47	168	215	17	44	61	453
04:45 PM	149	17	166	63	178	241	21	39	60	467
Total	618	69	687	199	661	860	86	159	245	1792
05:00 PM	213	20	233	39	194	233	26	47	73	539
05:15 PM	148	22	170	60	203	263	26	48	74	507
05:30 PM	166	26	192	45	210	255	29	54	83	530
05:45 PM	144	21	165	55	248	303	33	44	77	545
Total	671	89	760	199	855	1054	114	193	307	2121
Grand Total	1289	158	1447	398	1516	1914	200	352	552	3913
Apprch %	89.1	10.9		20.8	79.2		36.2	63.8		
Total %	32.9	4	37	10.2	38.7	48.9	5.1	9	14.1	
Passenger Vehicles	1280	158	1438	396	1502	1898	200	351	551	3887
% Passenger Vehicles	99.3	100	99.4	99.5	99.1	99.2	100	99.7	99.8	99.3
Large 2 Axle Vehicles	8	0	8	1	9	10	0	1	1	19
% Large 2 Axle Vehicles	0.6	0	0.6	0.3	0.6	0.5	0	0.3	0.2	0.5
3 Axle Vehicles	0	0	0	1	0	1	0	0	0	1
% 3 Axle Vehicles	0	0	0	0.3	0	0.1	0	0	0	0
4+ Axle Trucks	1	0	1	0	5	5	0	0	0	6
% 4+ Axle Trucks	0.1	0	0.1	0	0.3	0.3	0	0	0	0.2

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	**213**	20	**233**	39	194	233	26	47	73	539
05:15 PM	148	22	170	**60**	203	263	26	48	74	507
05:30 PM	166	**26**	192	45	210	255	29	**54**	**83**	530
05:45 PM	144	21	165	55	**248**	**303**	**33**	44	77	**545**
Total Volume	671	89	760	199	855	1054	114	193	307	2121
% App. Total	88.3	11.7		18.9	81.1		37.1	62.9		
PHF	.788	.856	.815	.829	.862	.870	.864	.894	.925	.973

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File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
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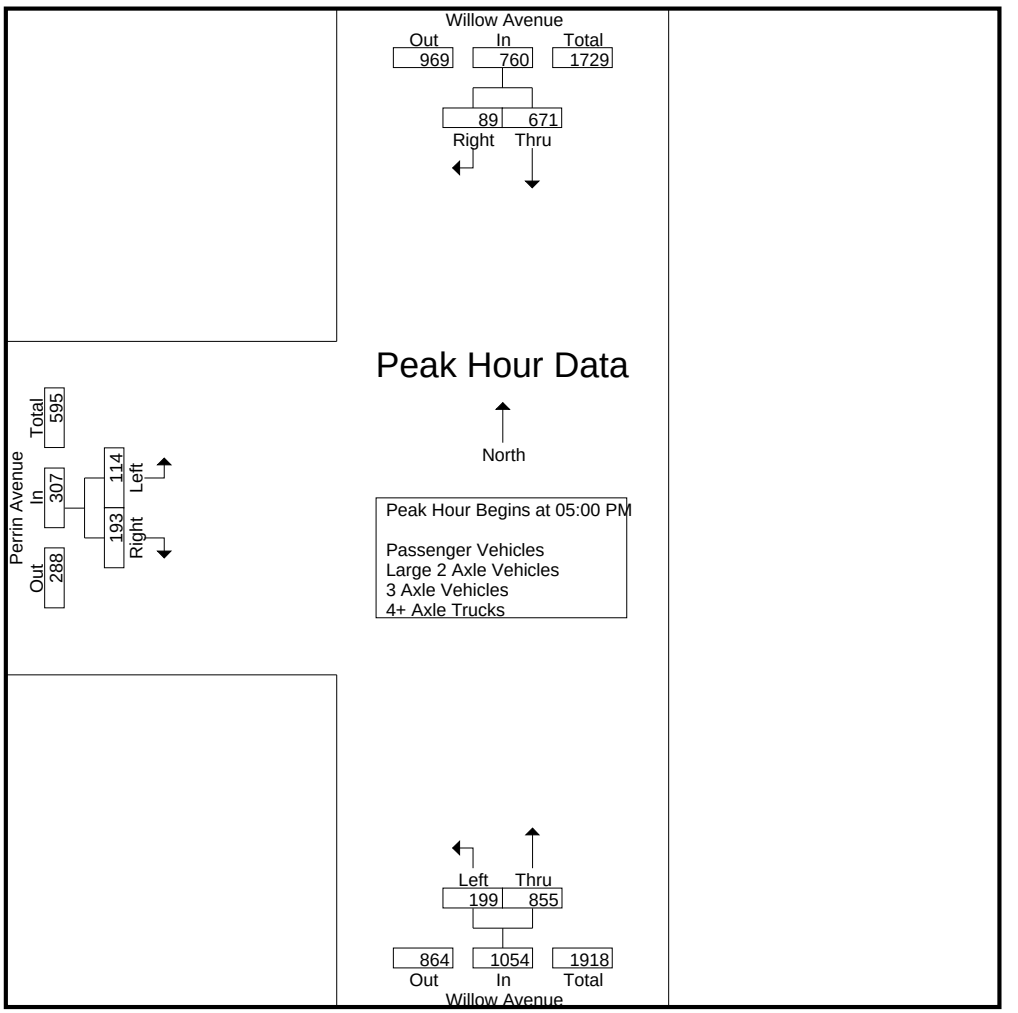

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			05:00 PM			05:00 PM		
+0 mins.	149	17	166	39	194	233	26	47	73
+15 mins.	**213**	20	**233**	**60**	203	263	26	48	74
+30 mins.	148	22	170	45	210	255	29	**54**	**83**
+45 mins.	166	**26**	192	55	**248**	**303**	**33**	44	77
Total Volume	676	85	761	199	855	1054	114	193	307
% App. Total	88.8	11.2		18.9	81.1		37.1	62.9	
PHF	.793	.817	.817	.829	.862	.870	.864	.894	.925

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N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
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Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	168	19	187	42	170	212	27	36	63	462
04:15 PM	133	20	153	47	142	189	21	40	61	403
04:30 PM	163	13	176	47	166	213	17	44	61	450
04:45 PM	148	17	165	63	177	240	21	39	60	465
Total	612	69	681	199	655	854	86	159	245	1780
05:00 PM	211	20	231	39	191	230	26	47	73	534
05:15 PM	148	22	170	59	201	260	26	48	74	504
05:30 PM	165	26	191	44	208	252	29	53	82	525
05:45 PM	144	21	165	55	247	302	33	44	77	544
Total	668	89	757	197	847	1044	114	192	306	2107
Grand Total	1280	158	1438	396	1502	1898	200	351	551	3887
Apprch %	89	11		20.9	79.1		36.3	63.7		
Total %	32.9	4.1	37	10.2	38.6	48.8	5.1	9	14.2	

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	**211**	20	**231**	39	191	230	26	47	73	534
05:15 PM	148	22	170	**59**	201	260	26	48	74	504
05:30 PM	165	**26**	191	44	208	252	29	**53**	**82**	525
05:45 PM	144	21	165	55	**247**	**302**	**33**	44	77	**544**
Total Volume	668	89	757	197	847	1044	114	192	306	2107
% App. Total	88.2	11.8		18.9	81.1		37.3	62.7		
PHF	.791	.856	.819	.835	.857	.864	.864	.906	.933	.968

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City of Clovis
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Weather: Clear

File Name : 14_CVS_Will_Per PMC
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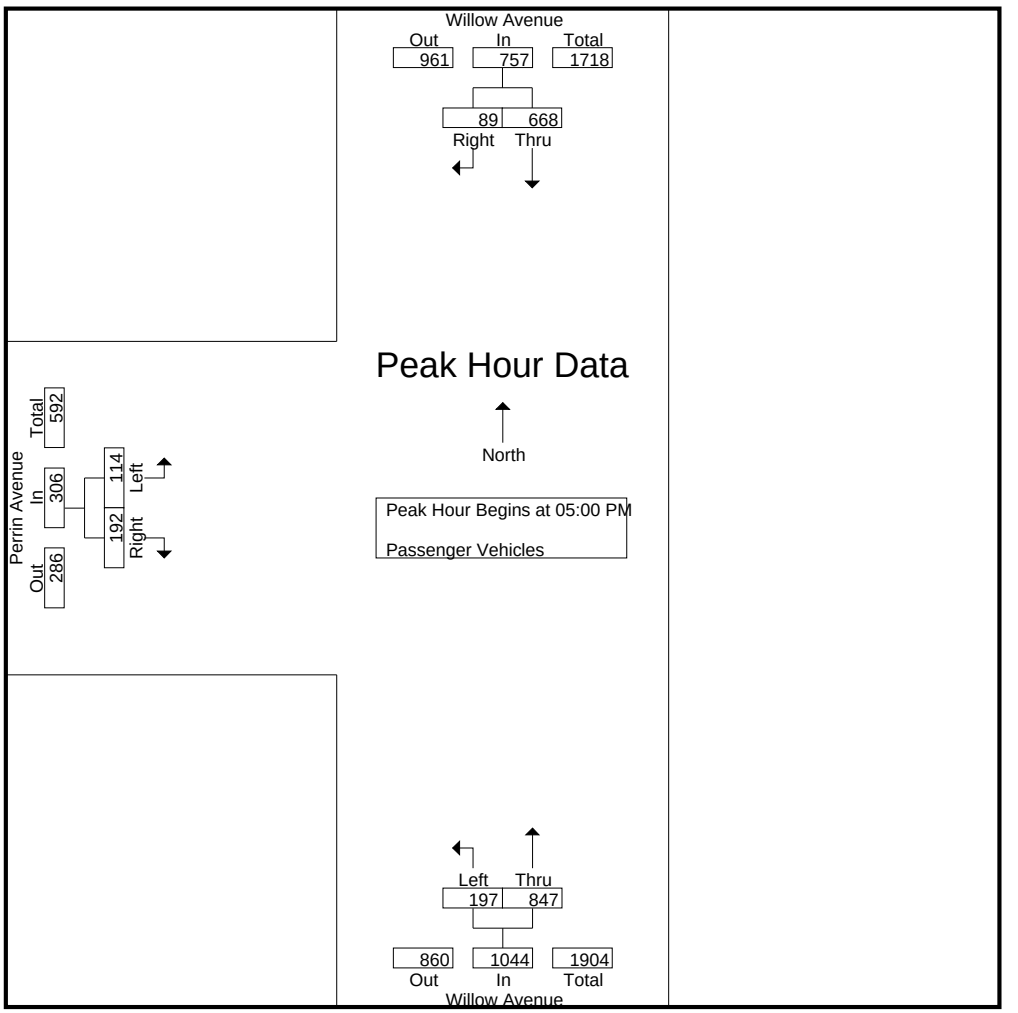

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	**211**	20	**231**	39	191	230	26	47	73
+15 mins.	148	22	170	**59**	201	260	26	48	74
+30 mins.	165	**26**	191	44	208	252	29	**53**	**82**
+45 mins.	144	21	165	55	**247**	**302**	**33**	44	77
Total Volume	668	89	757	197	847	1044	114	192	306
% App. Total	88.2	11.8		18.9	81.1		37.3	62.7	
PHF	.791	.856	.819	.835	.857	.864	.864	.906	.933

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City of Clovis
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E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
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Groups Printed- Large 2 Axle Vehicles

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	2	0	2	0	1	1	0	0	0	3
04:15 PM	1	0	1	0	2	2	0	0	0	3
04:30 PM	1	0	1	0	2	2	0	0	0	3
04:45 PM	1	0	1	0	0	0	0	0	0	1
Total	5	0	5	0	5	5	0	0	0	10
05:00 PM	2	0	2	0	2	2	0	0	0	4
05:15 PM	0	0	0	1	1	2	0	0	0	2
05:30 PM	1	0	1	0	0	0	0	1	1	2
05:45 PM	0	0	0	0	1	1	0	0	0	1
Total	3	0	3	1	4	5	0	1	1	9
Grand Total	8	0	8	1	9	10	0	1	1	19
Apprch %	100	0		10	90		0	100		
Total %	42.1	0	42.1	5.3	47.4	52.6	0	5.3	5.3	

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	**2**	0	**2**	0	**2**	**2**	0	0	0	**4**
05:15 PM	0	0	0	**1**	1	2	0	0	0	2
05:30 PM	1	0	1	0	0	0	0	**1**	**1**	2
05:45 PM	0	0	0	0	1	1	0	0	0	1
Total Volume	3	0	3	1	4	5	0	1	1	9
% App. Total	100	0		20	80		0	100		
PHF	.375	.000	.375	.250	.500	.625	.000	.250	.250	.563

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N/S: Willow Avenue
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File Name : 14_CVS_Will_Per PMC
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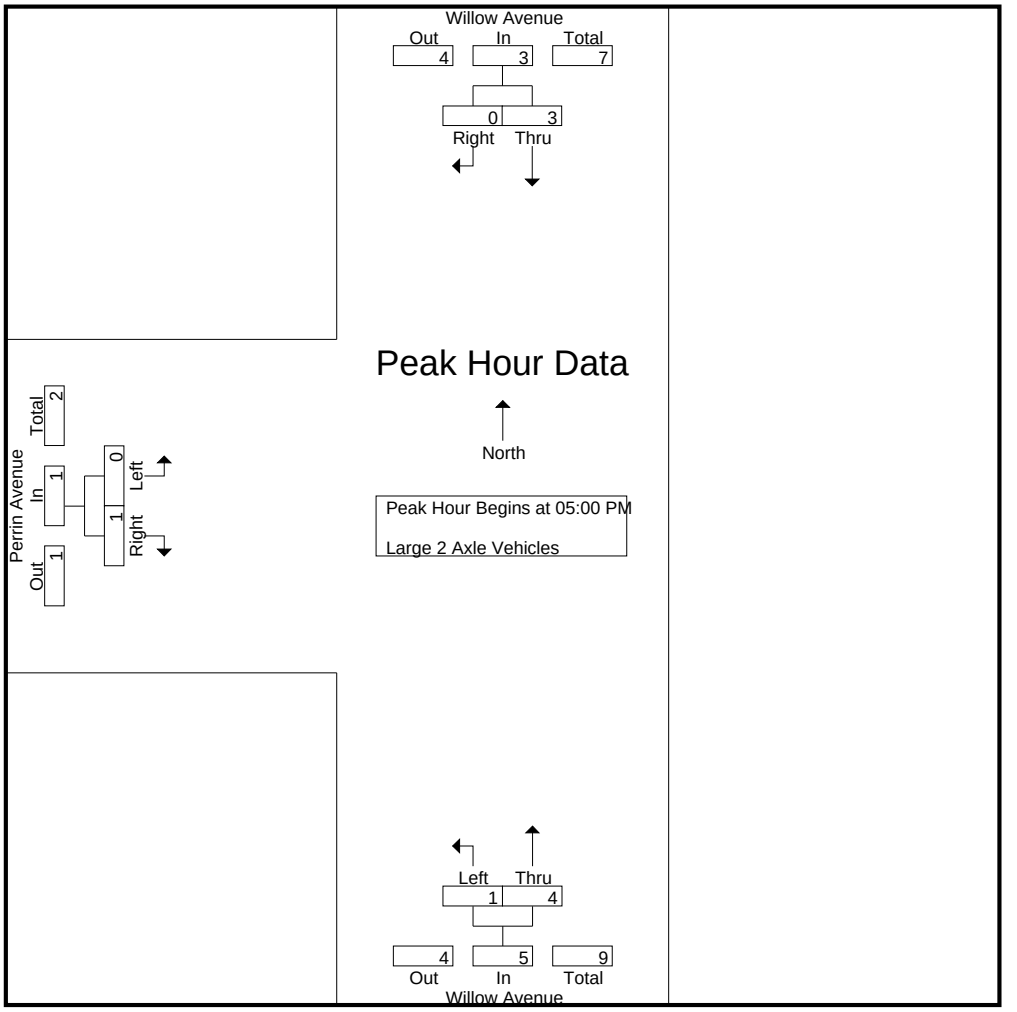

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	**2**	0	**2**	0	**2**	**2**	0	0	0
+15 mins.	0	0	0	**1**	1	2	0	0	0
+30 mins.	1	0	1	0	0	0	0	**1**	**1**
+45 mins.	0	0	0	0	1	1	0	0	0
Total Volume	3	0	3	1	4	5	0	1	1
% App. Total	100	0		20	80		0	100	
PHF	.375	.000	.375	.250	.500	.625	.000	.250	.250

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024

Groups Printed- 3 Axle Vehicles

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	1	0	1	0	0	0	1
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	1	0	0	0	1
Grand Total	0	0	0	1	0	1	0	0	0	1
Apprch %	0	0		100	0		0	0		
Total %	0	0	0	100	0	100	0	0	0	

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	**1**	0	**1**	0	0	0	**1**
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	1	0	1	0	0	0	1
% App. Total	0	0		100	0		0	0		
PHF	.000	.000	.000	.250	.000	.250	.000	.000	.000	.250

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City of Clovis
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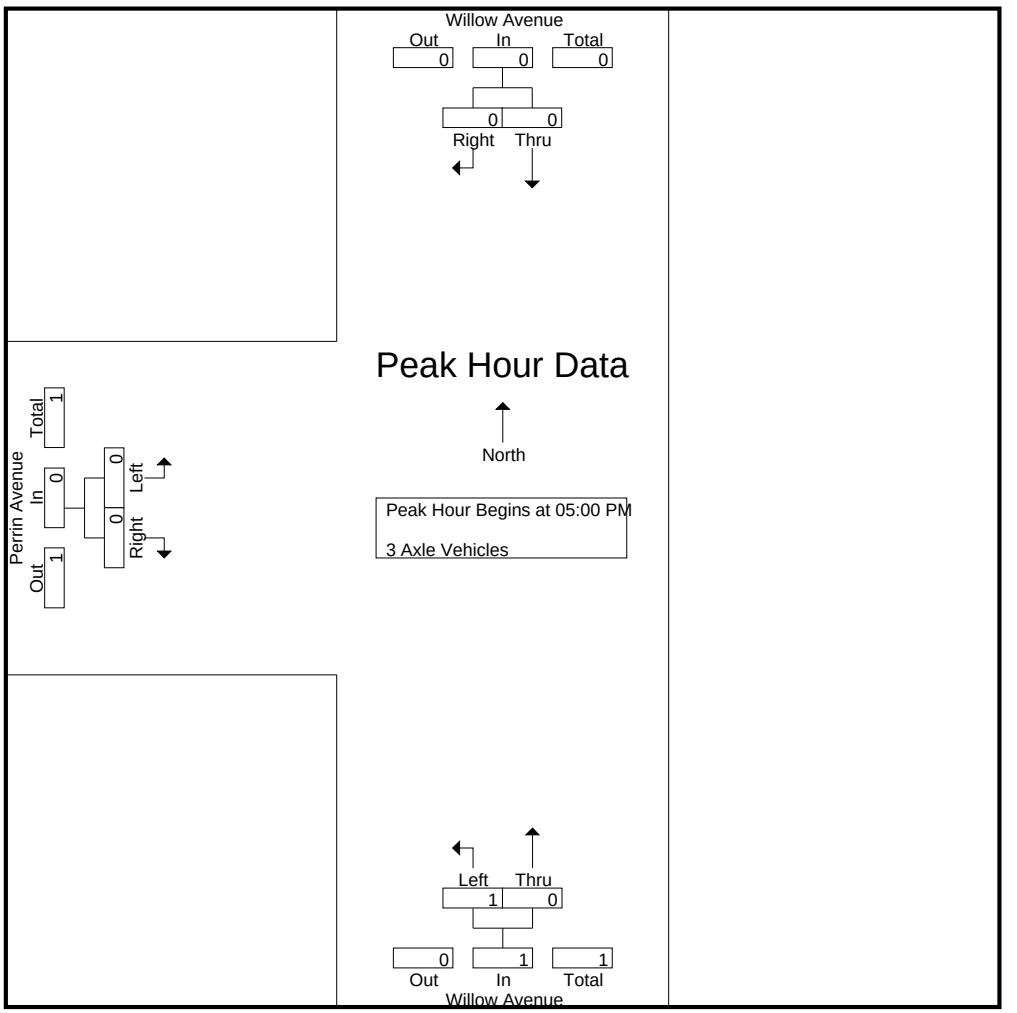

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	**1**	0	**1**	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	1	0	1	0	0	0
% App. Total	0	0		100	0		0	0	
PHF	.000	.000	.000	.250	.000	.250	.000	.000	.000

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City of Clovis
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File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
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Groups Printed- 4+ Axle Trucks

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	1	0	1	0	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	1	1	0	0	0	1
Total	1	0	1	0	1	1	0	0	0	2
05:00 PM	0	0	0	0	1	1	0	0	0	1
05:15 PM	0	0	0	0	1	1	0	0	0	1
05:30 PM	0	0	0	0	2	2	0	0	0	2
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	4	4	0	0	0	4
Grand Total	1	0	1	0	5	5	0	0	0	6
Apprch %	100	0		0	100		0	0		
Total %	16.7	0	16.7	0	83.3	83.3	0	0	0	

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	0	0	0	1	1	0	0	0	1
05:15 PM	0	0	0	0	1	1	0	0	0	1
05:30 PM	0	0	0	0	**2**	**2**	0	0	0	**2**
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	4	4	0	0	0	4
% App. Total	0	0		0	100		0	0		
PHF	.000	.000	.000	.000	.500	.500	.000	.000	.000	.500

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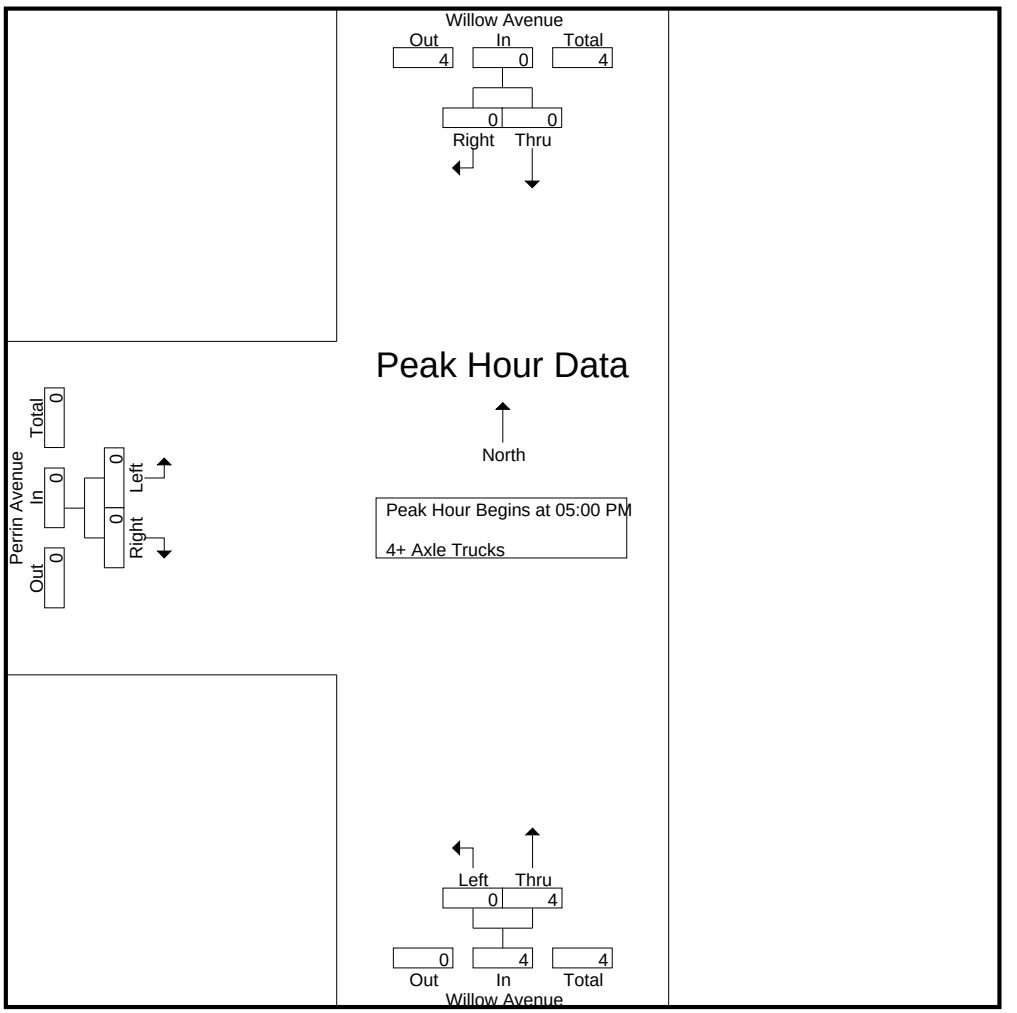

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	0	0	0	0	1	1	0	0	0
+15 mins.	0	0	0	0	1	1	0	0	0
+30 mins.	0	0	0	0	**2**	**2**	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	4	4	0	0	0
% App. Total	0	0		0	100		0	0	
PHF	.000	.000	.000	.000	.500	.500	.000	.000	.000

Location: Clovis
N/S: Willow Avenue
E/W: Perrin Avenue

Date: 3/6/2024
Day: Wednesday

PEDESTRIANS

	North Leg Willow Avenue	East Leg Dead End	South Leg Willow Avenue	West Leg Perrin Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	2	2
8:00 AM	0	0	0	1	1
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	1	1
TOTAL VOLUMES:	0	0	0	4	4

	North Leg Willow Avenue	East Leg Dead End	South Leg Willow Avenue	West Leg Perrin Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	2	2
5:15 PM	0	0	0	2	2
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	4	4

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Location: Clovis
N/S: Willow Avenue
E/W: Perrin Avenue

Date: 3/6/2024
Day: Wednesday

BICYCLES

	Southbound Willow Avenue			Westbound Dead End			Northbound Willow Avenue			Eastbound Perrin Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	2	0	0	0	0	2
7:30 AM	0	1	0	0	0	0	0	1	0	0	0	0	2
7:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:00 AM	0	0	0	0	0	0	0	3	0	0	0	0	3
8:15 AM	0	0	0	0	0	0	0	2	0	0	0	0	2
8:30 AM	0	0	0	0	0	0	0	2	0	0	0	0	2
8:45 AM	0	0	0	0	0	0	0	3	0	1	0	0	4
TOTAL VOLUMES:	0	1	0	0	0	0	0	14	0	1	0	0	16

	Southbound Willow Avenue			Westbound Dead End			Northbound Willow Avenue			Eastbound Perrin Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	3	0	0	0	0	0	2	0	0	0	0	5
4:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
4:45 PM	0	2	0	0	0	0	1	3	0	0	0	0	6
5:00 PM	0	4	0	0	0	0	2	0	0	0	0	2	8
5:15 PM	0	2	0	0	0	0	0	0	0	0	0	0	2
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	2	0	0	0	0	2
TOTAL VOLUMES:	0	12	0	0	0	0	3	8	0	0	0	2	25

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	1	0	1	34	0	34	0	39	39	74
07:15 AM	0	0	0	58	0	58	0	32	32	90
07:30 AM	0	0	0	118	1	119	0	42	42	161
07:45 AM	0	0	0	104	0	104	0	69	69	173
Total	1	0	1	314	1	315	0	182	182	498
08:00 AM	0	0	0	72	0	72	0	65	65	137
08:15 AM	1	0	1	50	0	50	0	48	48	99
08:30 AM	0	0	0	69	0	69	1	42	43	112
08:45 AM	0	0	0	70	0	70	0	43	43	113
Total	1	0	1	261	0	261	1	198	199	461
Grand Total	2	0	2	575	1	576	1	380	381	959
Apprch %	100	0		99.8	0.2		0.3	99.7		
Total %	0.2	0	0.2	60	0.1	60.1	0.1	39.6	39.7	
Passenger Vehicles	2	0	2	566	1	567	1	368	369	938
% Passenger Vehicles	100	0	100	98.4	100	98.4	100	96.8	96.9	97.8
Large 2 Axle Vehicles	0	0	0	6	0	6	0	8	8	14
% Large 2 Axle Vehicles	0	0	0	1	0	1	0	2.1	2.1	1.5
3 Axle Vehicles	0	0	0	1	0	1	0	1	1	2
% 3 Axle Vehicles	0	0	0	0.2	0	0.2	0	0.3	0.3	0.2
4+ Axle Trucks	0	0	0	2	0	2	0	3	3	5
% 4+ Axle Trucks	0	0	0	0.3	0	0.3	0	0.8	0.8	0.5

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	**118**	**1**	**119**	0	42	42	161
07:45 AM	0	0	0	104	0	104	0	**69**	**69**	**173**
08:00 AM	0	0	0	72	0	72	0	65	65	137
08:15 AM	**1**	0	**1**	50	0	50	0	48	48	99
Total Volume	1	0	1	344	1	345	0	224	224	570
% App. Total	100	0		99.7	0.3		0	100		
PHF	.250	.000	.250	.729	.250	.725	.000	.812	.812	.824

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City of Clovis
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File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
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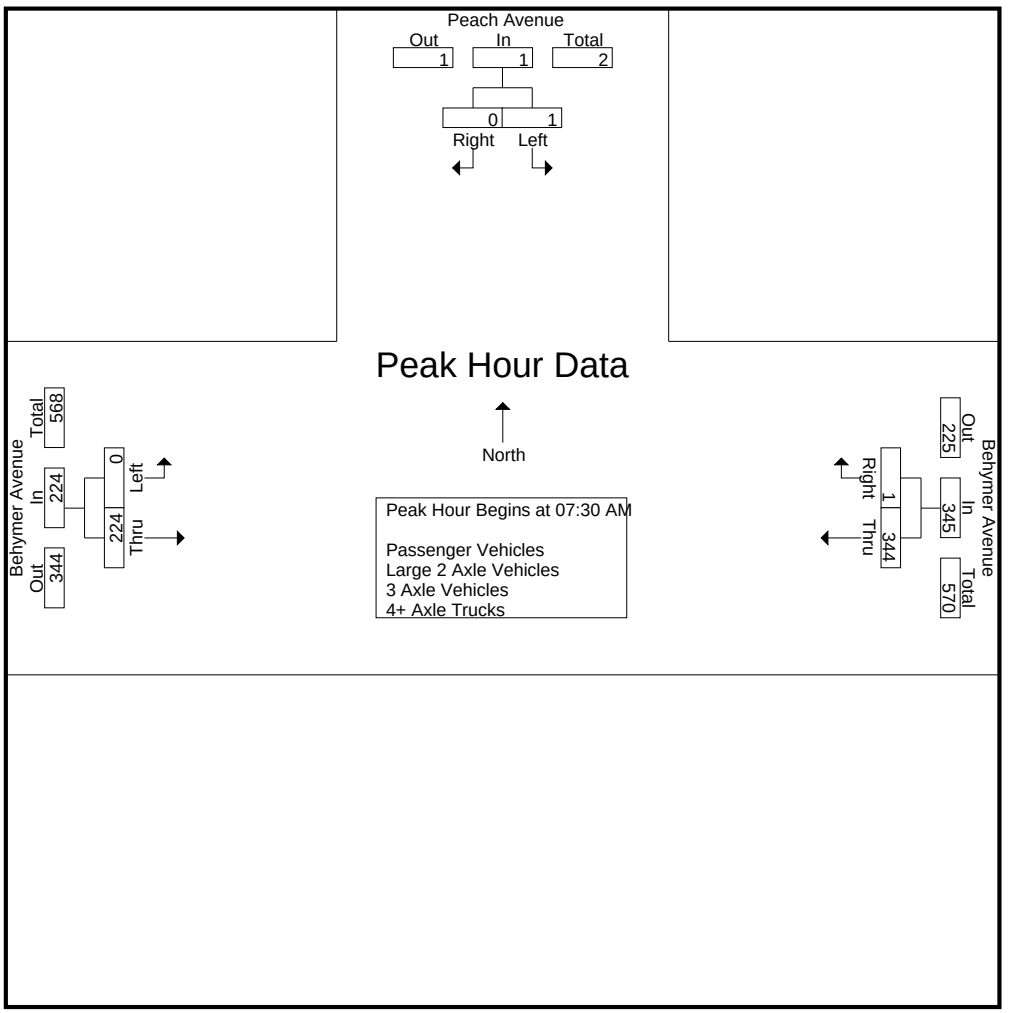

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:15 AM			07:45 AM		
+0 mins.	**1**	0	**1**	58	0	58	0	**69**	**69**
+15 mins.	0	0	0	**118**	**1**	**119**	0	65	65
+30 mins.	0	0	0	104	0	104	0	48	48
+45 mins.	0	0	0	72	0	72	**1**	42	43
Total Volume	1	0	1	352	1	353	1	224	225
% App. Total	100	0		99.7	0.3		0.4	99.6	
PHF	.250	.000	.250	.746	.250	.742	.250	.812	.815

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City of Clovis
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Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	1	0	1	32	0	32	0	39	39	72
07:15 AM	0	0	0	56	0	56	0	29	29	85
07:30 AM	0	0	0	117	1	118	0	42	42	160
07:45 AM	0	0	0	104	0	104	0	66	66	170
Total	1	0	1	309	1	310	0	176	176	487
08:00 AM	0	0	0	68	0	68	0	63	63	131
08:15 AM	1	0	1	50	0	50	0	46	46	97
08:30 AM	0	0	0	69	0	69	1	41	42	111
08:45 AM	0	0	0	70	0	70	0	42	42	112
Total	1	0	1	257	0	257	1	192	193	451
Grand Total	2	0	2	566	1	567	1	368	369	938
Apprch %	100	0		99.8	0.2		0.3	99.7		
Total %	0.2	0	0.2	60.3	0.1	60.4	0.1	39.2	39.3	

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	**117**	**1**	**118**	0	42	42	160
07:45 AM	0	0	0	104	0	104	0	**66**	**66**	**170**
08:00 AM	0	0	0	68	0	68	0	63	63	131
08:15 AM	**1**	0	**1**	50	0	50	0	46	46	97
Total Volume	1	0	1	339	1	340	0	217	217	558
% App. Total	100	0		99.7	0.3		0	100		
PHF	.250	.000	.250	.724	.250	.720	.000	.822	.822	.821

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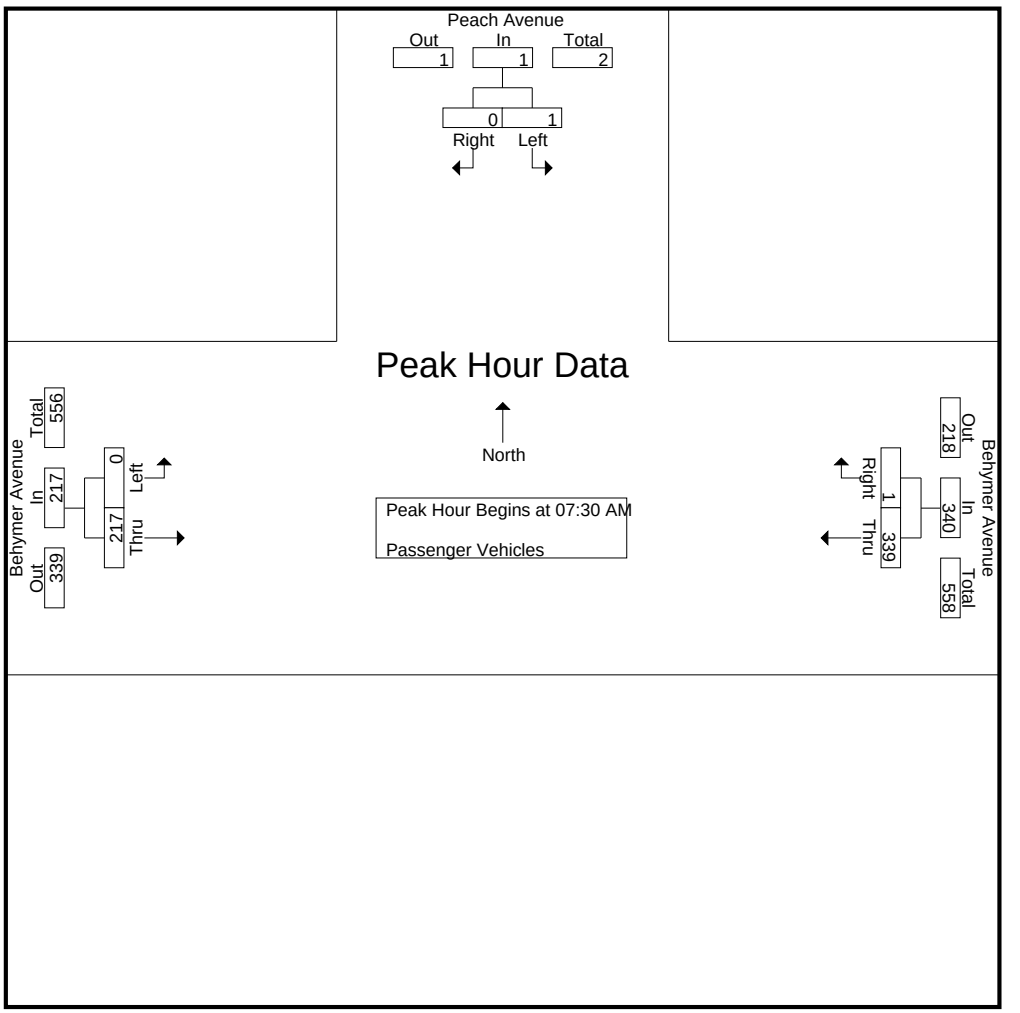

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	**117**	**1**	**118**	0	42	42
+15 mins.	0	0	0	104	0	104	0	**66**	**66**
+30 mins.	0	0	0	68	0	68	0	63	63
+45 mins.	**1**	0	**1**	50	0	50	0	46	46
Total Volume	1	0	1	339	1	340	0	217	217
% App. Total	100	0		99.7	0.3		0	100	
PHF	.250	.000	.250	.724	.250	.720	.000	.822	.822

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Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	1	0	1	0	0	0	1
07:15 AM	0	0	0	2	0	2	0	3	3	5
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	1	1	1
Total	0	0	0	3	0	3	0	4	4	7
08:00 AM	0	0	0	3	0	3	0	2	2	5
08:15 AM	0	0	0	0	0	0	0	2	2	2
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	3	0	3	0	4	4	7
Grand Total	0	0	0	6	0	6	0	8	8	14
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	42.9	0	42.9	0	57.1	57.1	

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	1	1	1
08:00 AM	0	0	0	**3**	0	**3**	0	**2**	**2**	**5**
08:15 AM	0	0	0	0	0	0	0	2	2	2
Total Volume	0	0	0	3	0	3	0	5	5	8
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.250	.000	.250	.000	.625	.625	.400

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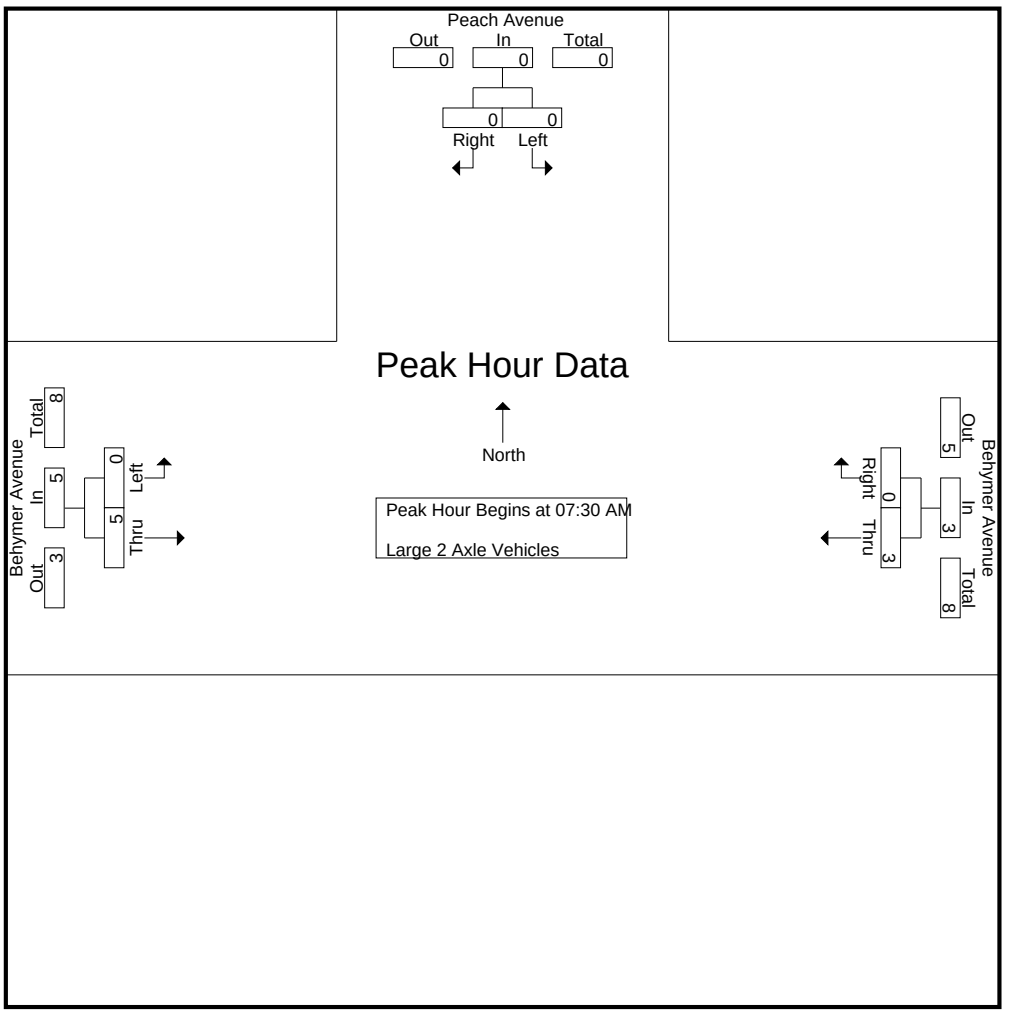

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	1	1
+30 mins.	0	0	0	**3**	0	**3**	0	**2**	**2**
+45 mins.	0	0	0	0	0	0	0	2	2
Total Volume	0	0	0	3	0	3	0	5	5
% App. Total	0	0		100	0		0	100	
PHF	.000	.000	.000	.250	.000	.250	.000	.625	.625

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	1	0	1	0	0	0	1
07:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	1	0	0	0	1
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	1	1	1
Total	0	0	0	0	0	0	0	1	1	1
Grand Total	0	0	0	1	0	1	0	1	1	2
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	50	0	50	0	50	50	

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	**1**	0	**1**	0	0	0	**1**
07:45 AM	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	1	0	1	0	0	0	1
% App. Total	0	0		100	0		0	0		
PHF	.000	.000	.000	.250	.000	.250	.000	.000	.000	.250

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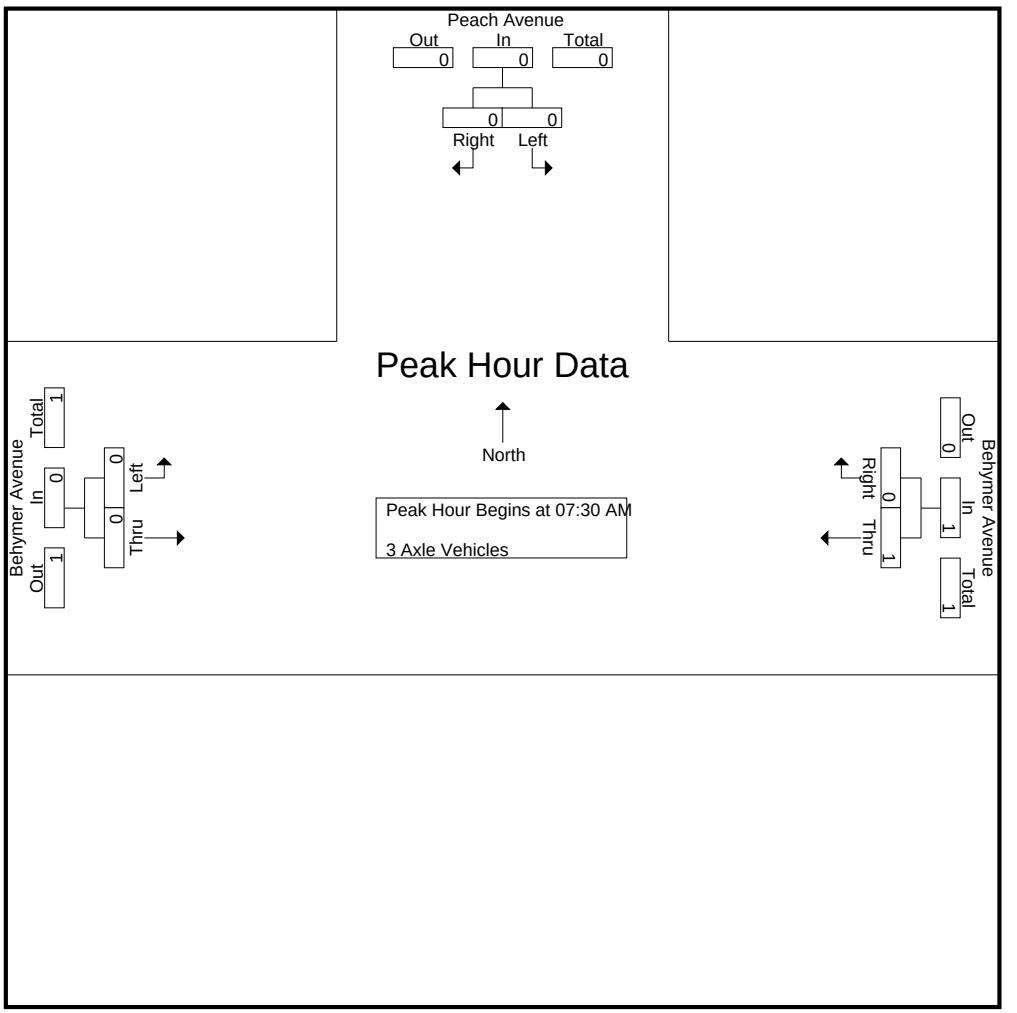

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	**1**	0	**1**	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	1	0	1	0	0	0
% App. Total	0	0		100	0		0	0	
PHF	.000	.000	.000	.250	.000	.250	.000	.000	.000

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File Name : 20_CVS_Peach_Beh AMC
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Groups Printed- 4+ Axle Trucks

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	1	0	1	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	2	2	2
Total	0	0	0	1	0	1	0	2	2	3
08:00 AM	0	0	0	1	0	1	0	0	0	1
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	1	1	1
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	1	0	1	1	2
Grand Total	0	0	0	2	0	2	0	3	3	5
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	40	0	40	0	60	60	

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	**2**	**2**	**2**
08:00 AM	0	0	0	**1**	0	**1**	0	0	0	1
08:15 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	1	0	1	0	2	2	3
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.250	.000	.250	.000	.250	.250	.375

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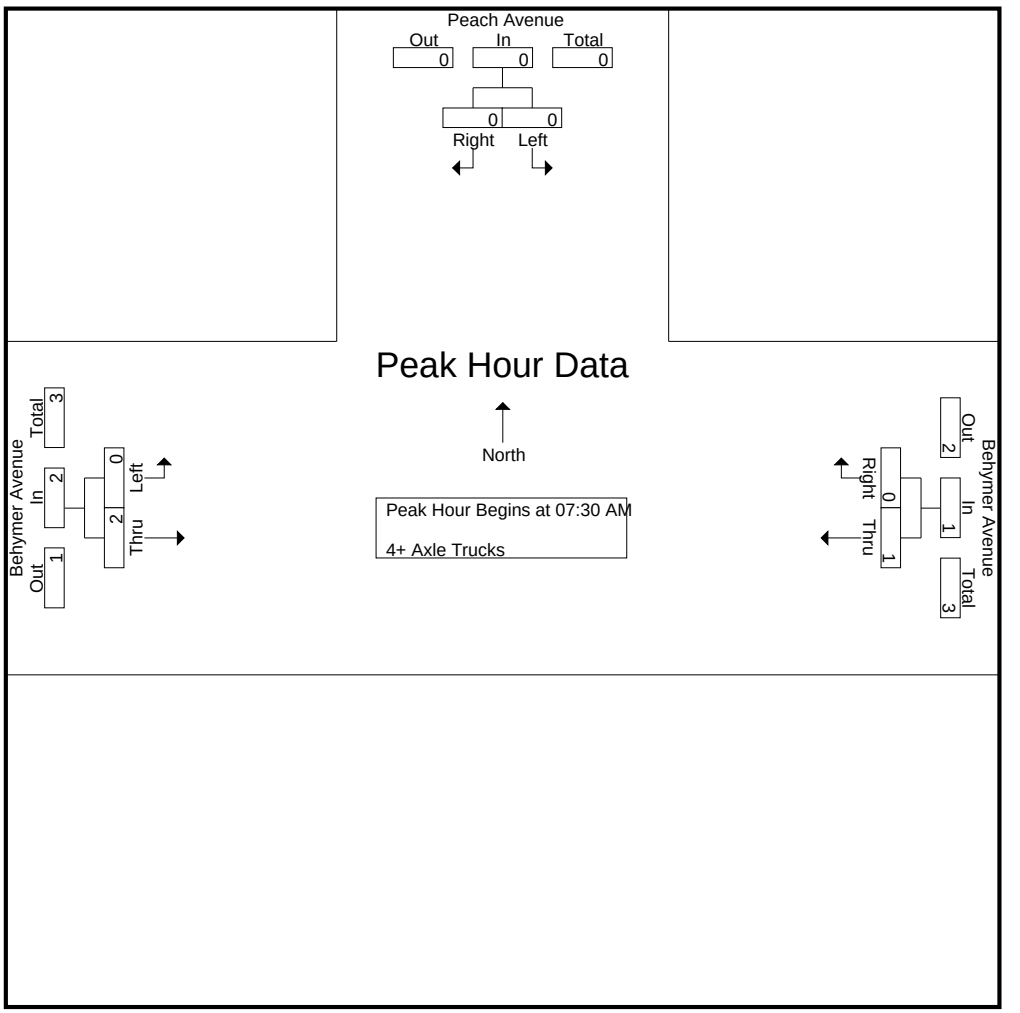

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	**2**	**2**
+30 mins.	0	0	0	**1**	0	**1**	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	1	0	1	0	2	2
% App. Total	0	0		100	0		0	100	
PHF	.000	.000	.000	.250	.000	.250	.000	.250	.250

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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	67	0	67	0	69	69	136
04:15 PM	0	0	0	59	0	59	0	45	45	104
04:30 PM	0	0	0	56	0	56	0	72	72	128
04:45 PM	0	0	0	66	2	68	0	46	46	114
Total	0	0	0	248	2	250	0	232	232	482
05:00 PM	0	0	0	59	0	59	0	82	82	141
05:15 PM	0	1	1	74	0	74	1	61	62	137
05:30 PM	0	0	0	72	0	72	0	50	50	122
05:45 PM	0	0	0	88	0	88	0	48	48	136
Total	0	1	1	293	0	293	1	241	242	536
Grand Total	0	1	1	541	2	543	1	473	474	1018
Apprch %	0	100		99.6	0.4		0.2	99.8		
Total %	0	0.1	0.1	53.1	0.2	53.3	0.1	46.5	46.6	
Passenger Vehicles	0	1	1	539	2	541	1	467	468	1010
% Passenger Vehicles	0	100	100	99.6	100	99.6	100	98.7	98.7	99.2
Large 2 Axle Vehicles	0	0	0	2	0	2	0	6	6	8
% Large 2 Axle Vehicles	0	0	0	0.4	0	0.4	0	1.3	1.3	0.8
3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0
% 3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0
4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0
% 4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	0	0	59	0	59	0	**82**	**82**	**141**
05:15 PM	0	**1**	**1**	74	0	74	**1**	61	62	137
05:30 PM	0	0	0	72	0	72	0	50	50	122
05:45 PM	0	0	0	**88**	0	**88**	0	48	48	136
Total Volume	0	1	1	293	0	293	1	241	242	536
% App. Total	0	100		100	0		0.4	99.6		
PHF	.000	.250	.250	.832	.000	.832	.250	.735	.738	.950

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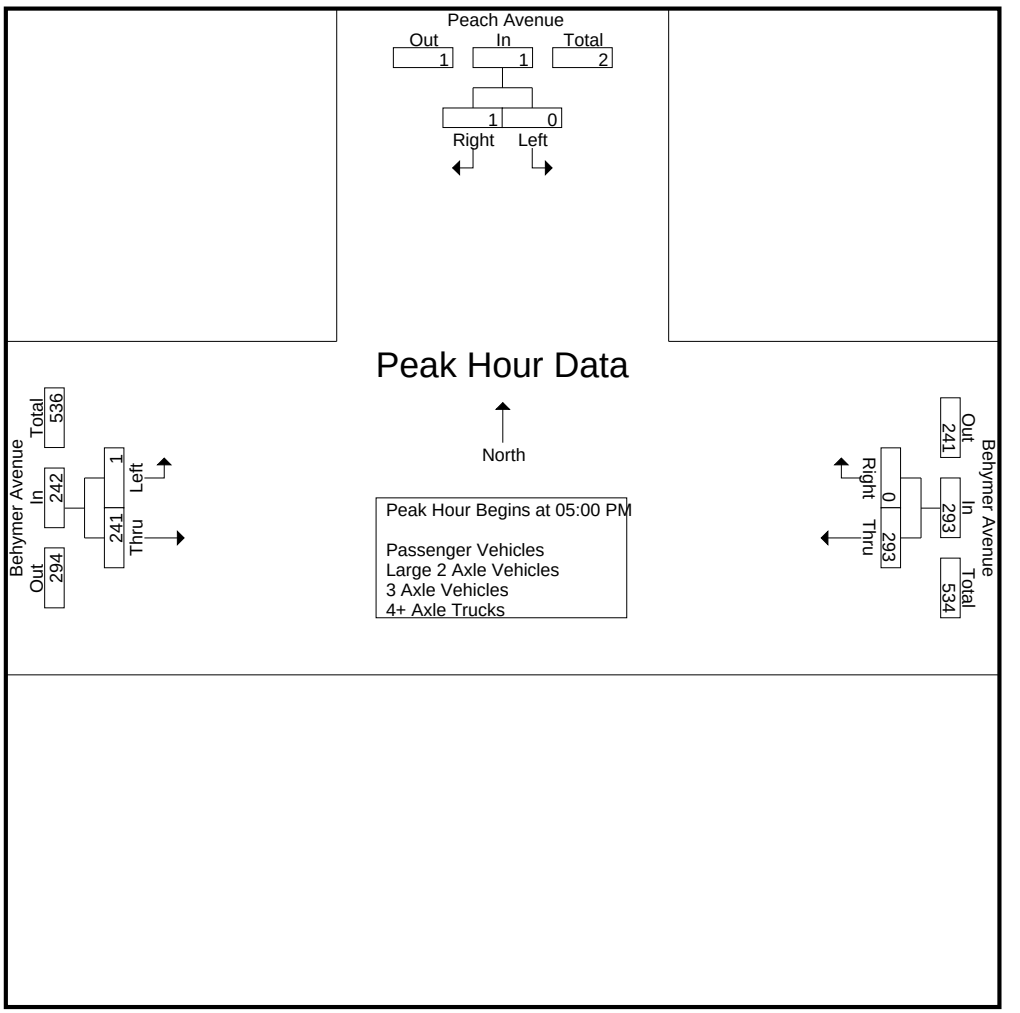
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			05:00 PM			04:30 PM		
+0 mins.	0	0	0	59	0	59	0	72	72
+15 mins.	0	0	0	74	0	74	0	46	46
+30 mins.	0	0	0	72	0	72	0	**82**	**82**
+45 mins.	0	**1**	**1**	**88**	0	**88**	**1**	61	62
Total Volume	0	1	1	293	0	293	1	261	262
% App. Total	0	100		100	0		0.4	99.6	
PHF	.000	.250	.250	.832	.000	.832	.250	.796	.799

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	67	0	67	0	68	68	135
04:15 PM	0	0	0	59	0	59	0	44	44	103
04:30 PM	0	0	0	56	0	56	0	72	72	128
04:45 PM	0	0	0	64	2	66	0	46	46	112
Total	0	0	0	246	2	248	0	230	230	478
05:00 PM	0	0	0	59	0	59	0	79	79	138
05:15 PM	0	1	1	74	0	74	1	61	62	137
05:30 PM	0	0	0	72	0	72	0	50	50	122
05:45 PM	0	0	0	88	0	88	0	47	47	135
Total	0	1	1	293	0	293	1	237	238	532
Grand Total	0	1	1	539	2	541	1	467	468	1010
Apprch %	0	100		99.6	0.4		0.2	99.8		
Total %	0	0.1	0.1	53.4	0.2	53.6	0.1	46.2	46.3	

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	0	0	59	0	59	0	**79**	**79**	**138**
05:15 PM	0	**1**	**1**	74	0	74	**1**	61	62	137
05:30 PM	0	0	0	72	0	72	0	50	50	122
05:45 PM	0	0	0	**88**	0	**88**	0	47	47	135
Total Volume	0	1	1	293	0	293	1	237	238	532
% App. Total	0	100		100	0		0.4	99.6		
PHF	.000	.250	.250	.832	.000	.832	.250	.750	.753	.964

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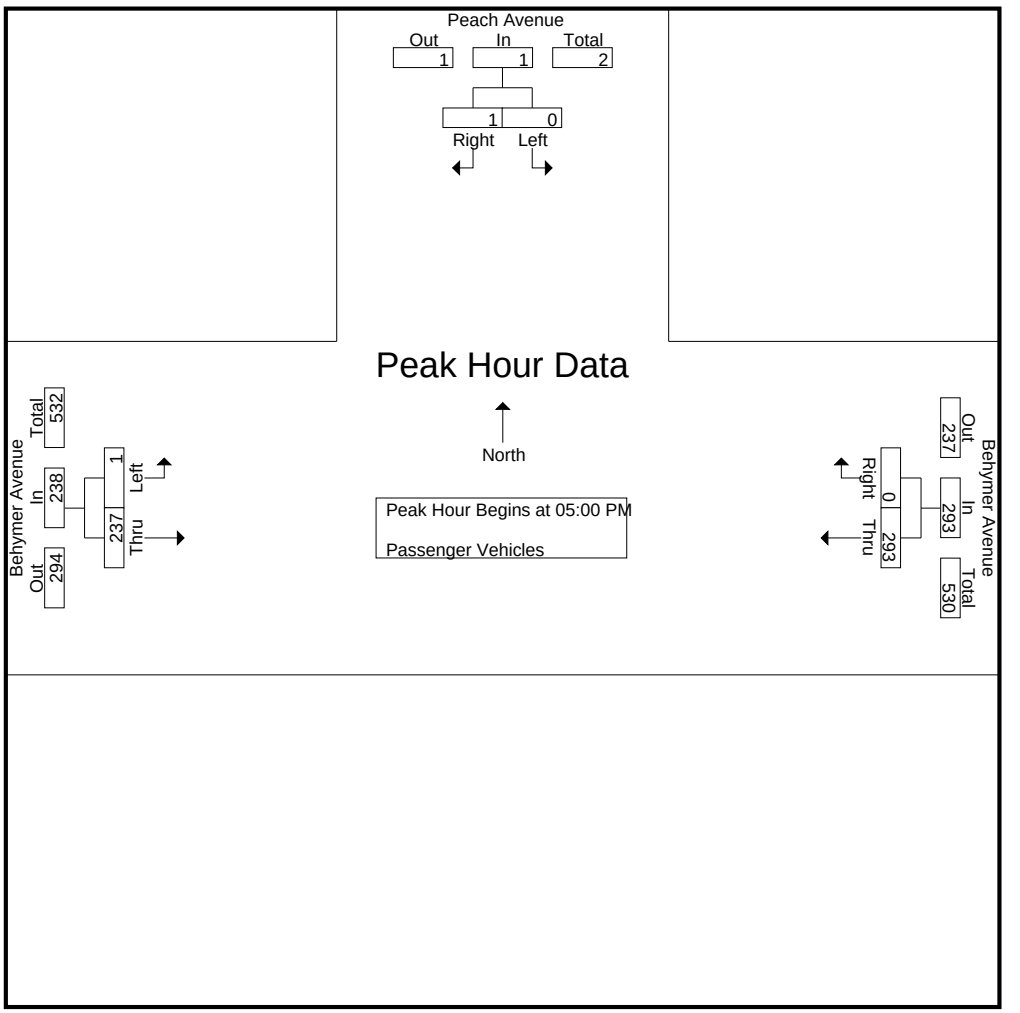
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	0	0	0	59	0	59	0	**79**	**79**
+15 mins.	0	**1**	**1**	74	0	74	**1**	61	62
+30 mins.	0	0	0	72	0	72	0	50	50
+45 mins.	0	0	0	**88**	0	**88**	0	47	47
Total Volume	0	1	1	293	0	293	1	237	238
% App. Total	0	100		100	0		0.4	99.6	
PHF	.000	.250	.250	.832	.000	.832	.250	.750	.753

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	1	1	1
04:15 PM	0	0	0	0	0	0	0	1	1	1
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	2	0	2	0	0	0	2
Total	0	0	0	2	0	2	0	2	2	4
05:00 PM	0	0	0	0	0	0	0	3	3	3
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	1	1	1
Total	0	0	0	0	0	0	0	4	4	4
Grand Total	0	0	0	2	0	2	0	6	6	8
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	25	0	25	0	75	75	

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	0	0	0	0	0	0	**3**	**3**	**3**
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	1	1	1
Total Volume	0	0	0	0	0	0	0	4	4	4
% App. Total	0	0		0	0		0	100		
PHF	.000	.000	.000	.000	.000	.000	.000	.333	.333	.333

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
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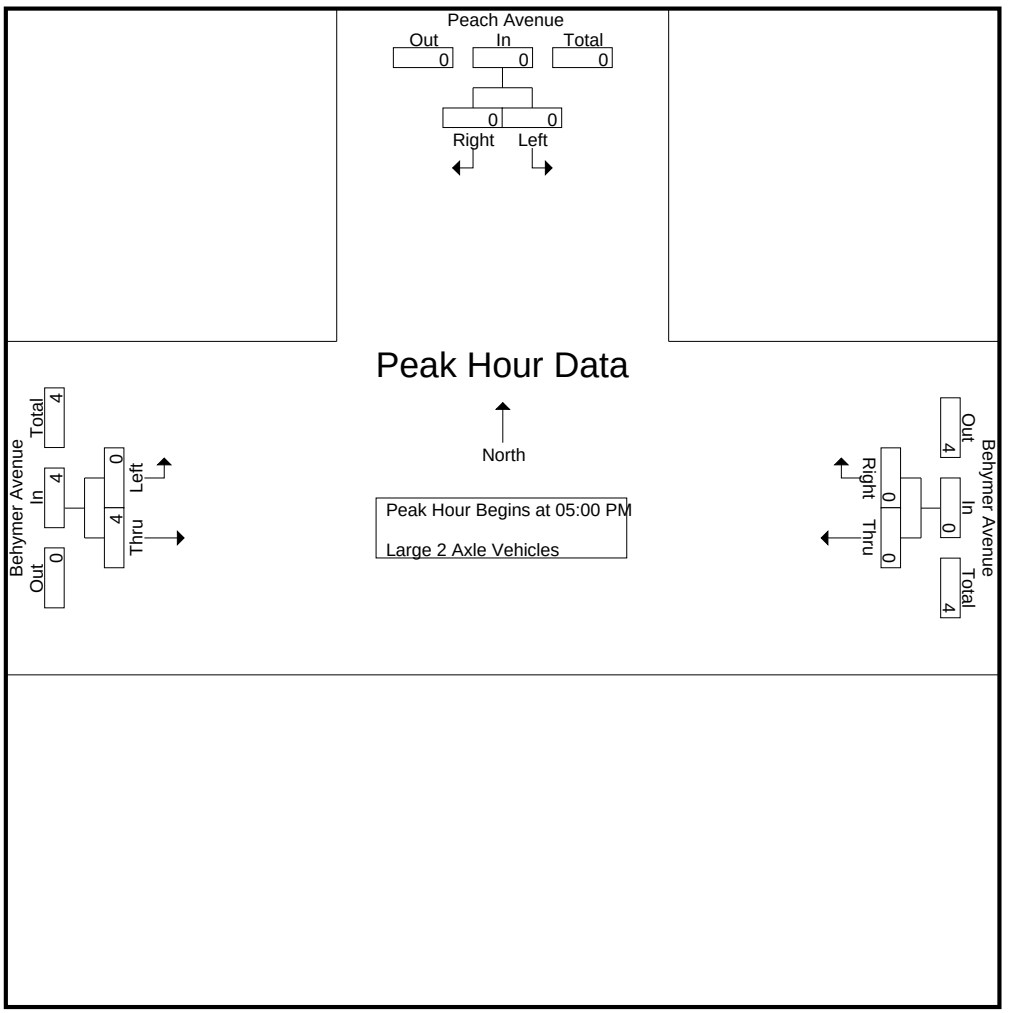

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	0	0	0	0	0	0	0	**3**	**3**
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	1	1
Total Volume	0	0	0	0	0	0	0	4	4
% App. Total	0	0		0	0		0	100	
PHF	.000	.000	.000	.000	.000	.000	.000	.333	.333

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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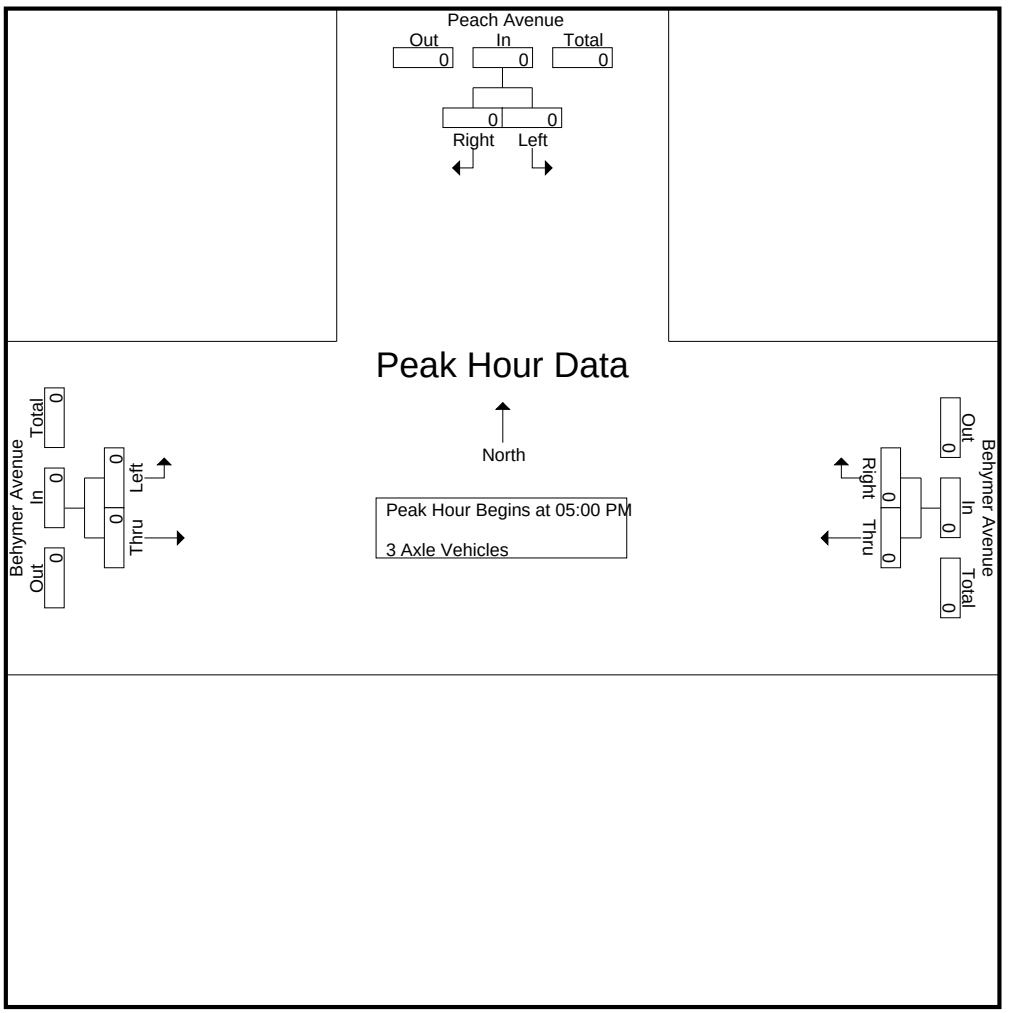
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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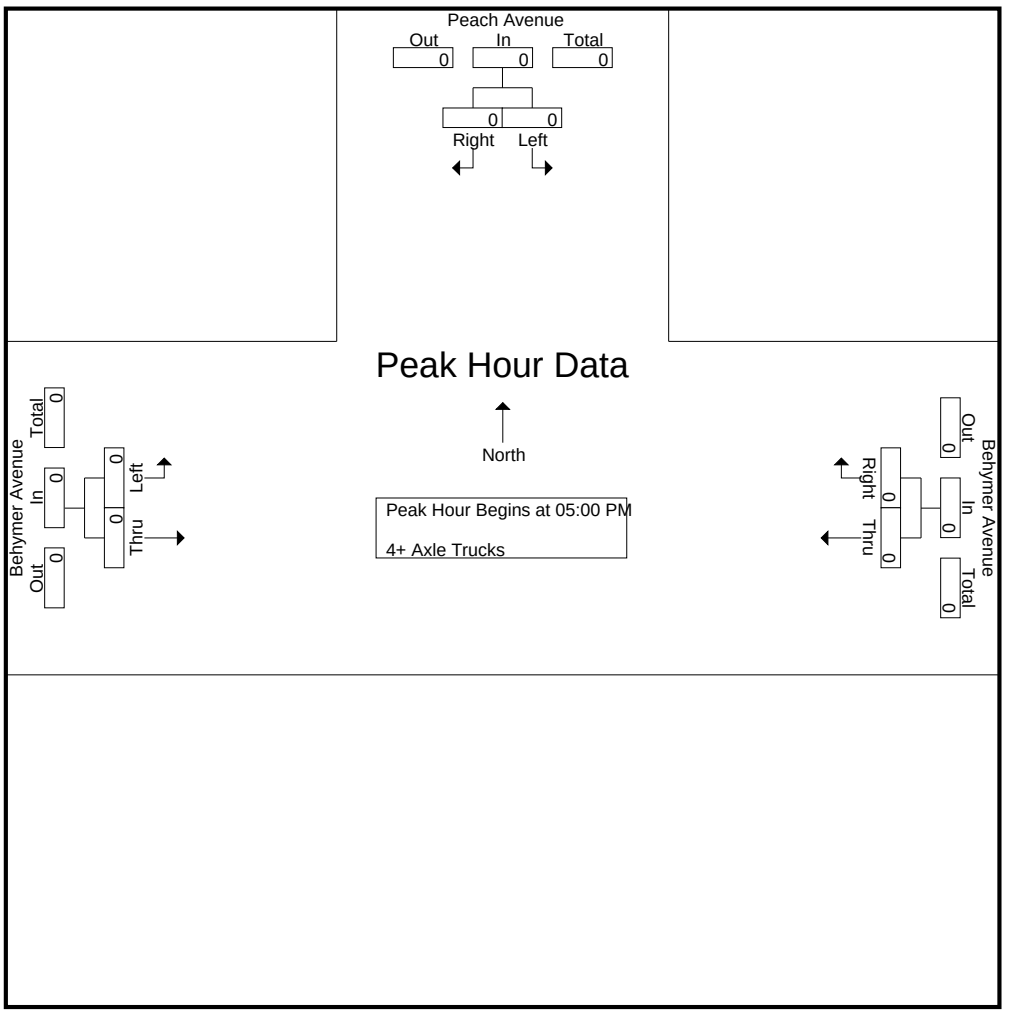
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000

Location: Clovis
N/S: Peach Avenue
E/W: Behymer Avenue

Date: 3/6/2024
Day: Wednesday

PEDESTRIANS

	North Leg Peach Avenue	East Leg Behymer Avenue	South Leg Dead End	West Leg Behymer Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0

	North Leg Peach Avenue	East Leg Behymer Avenue	South Leg Dead End	West Leg Behymer Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0

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Location: Clovis
N/S: Peach Avenue
E/W: Behymer Avenue

Date: 3/6/2024
Day: Wednesday

BICYCLES

	Southbound Peach Avenue			Westbound Behymer Avenue			Northbound Dead End			Eastbound Behymer Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	0	0

	Southbound Peach Avenue			Westbound Behymer Avenue			Northbound Dead End			Eastbound Behymer Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	0	0

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	27	30	0	57	7	34	31	72	5	38	2	45	1	21	8	30	204
07:15 AM	29	34	2	65	4	49	47	100	8	42	7	57	2	28	12	42	264
07:30 AM	51	55	1	107	7	68	48	123	29	36	6	71	2	40	13	55	356
07:45 AM	27	61	4	92	14	56	57	127	22	48	2	72	1	35	37	73	364
Total	134	180	7	321	32	207	183	422	64	164	17	245	6	124	70	200	1188
08:00 AM	27	60	0	87	9	32	76	117	9	62	8	79	0	44	15	59	342
08:15 AM	34	45	1	80	11	39	84	134	13	72	5	90	1	30	15	46	350
08:30 AM	63	48	0	111	4	32	35	71	8	62	6	76	1	37	9	47	305
08:45 AM	31	35	0	66	3	46	32	81	6	31	6	43	0	28	12	40	230
Total	155	188	1	344	27	149	227	403	36	227	25	288	2	139	51	192	1227
Grand Total	289	368	8	665	59	356	410	825	100	391	42	533	8	263	121	392	2415
Apprch %	43.5	55.3	1.2		7.2	43.2	49.7		18.8	73.4	7.9		2	67.1	30.9		
Total %	12	15.2	0.3	27.5	2.4	14.7	17	34.2	4.1	16.2	1.7	22.1	0.3	10.9	5	16.2	
Passenger Vehicles	274	357	6	637	55	341	393	789	95	364	38	497	7	248	117	372	2295
% Passenger Vehicles	94.8	97	75	95.8	93.2	95.8	95.9	95.6	95	93.1	90.5	93.2	87.5	94.3	96.7	94.9	95
Large 2 Axle Vehicles	3	3	0	6	1	9	0	10	3	12	1	16	1	9	4	14	46
% Large 2 Axle Vehicles	1	0.8	0	0.9	1.7	2.5	0	1.2	3	3.1	2.4	3	12.5	3.4	3.3	3.6	1.9
3 Axle Vehicles	7	4	1	12	0	2	6	8	1	6	1	8	0	5	0	5	33
% 3 Axle Vehicles	2.4	1.1	12.5	1.8	0	0.6	1.5	1	1	1.5	2.4	1.5	0	1.9	0	1.3	1.4
4+ Axle Trucks	5	4	1	10	3	4	11	18	1	9	2	12	0	1	0	1	41
% 4+ Axle Trucks	1.7	1.1	12.5	1.5	5.1	1.1	2.7	2.2	1	2.3	4.8	2.3	0	0.4	0	0.3	1.7

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**51**	55	1	**107**	7	**68**	48	123	**29**	36	6	71	**2**	40	13	55	356
07:45 AM	27	**61**	**4**	92	**14**	56	57	127	22	48	2	72	1	35	**37**	**73**	**364**
08:00 AM	27	60	0	87	9	32	76	117	9	62	**8**	79	0	**44**	15	59	342
08:15 AM	34	45	1	80	11	39	**84**	**134**	13	**72**	5	**90**	1	30	15	46	350
Total Volume	139	221	6	366	41	195	265	501	73	218	21	312	4	149	80	233	1412
% App. Total	38	60.4	1.6		8.2	38.9	52.9		23.4	69.9	6.7		1.7	63.9	34.3		
PHF	.681	.906	.375	.855	.732	.717	.789	.935	.629	.757	.656	.867	.500	.847	.541	.798	.970

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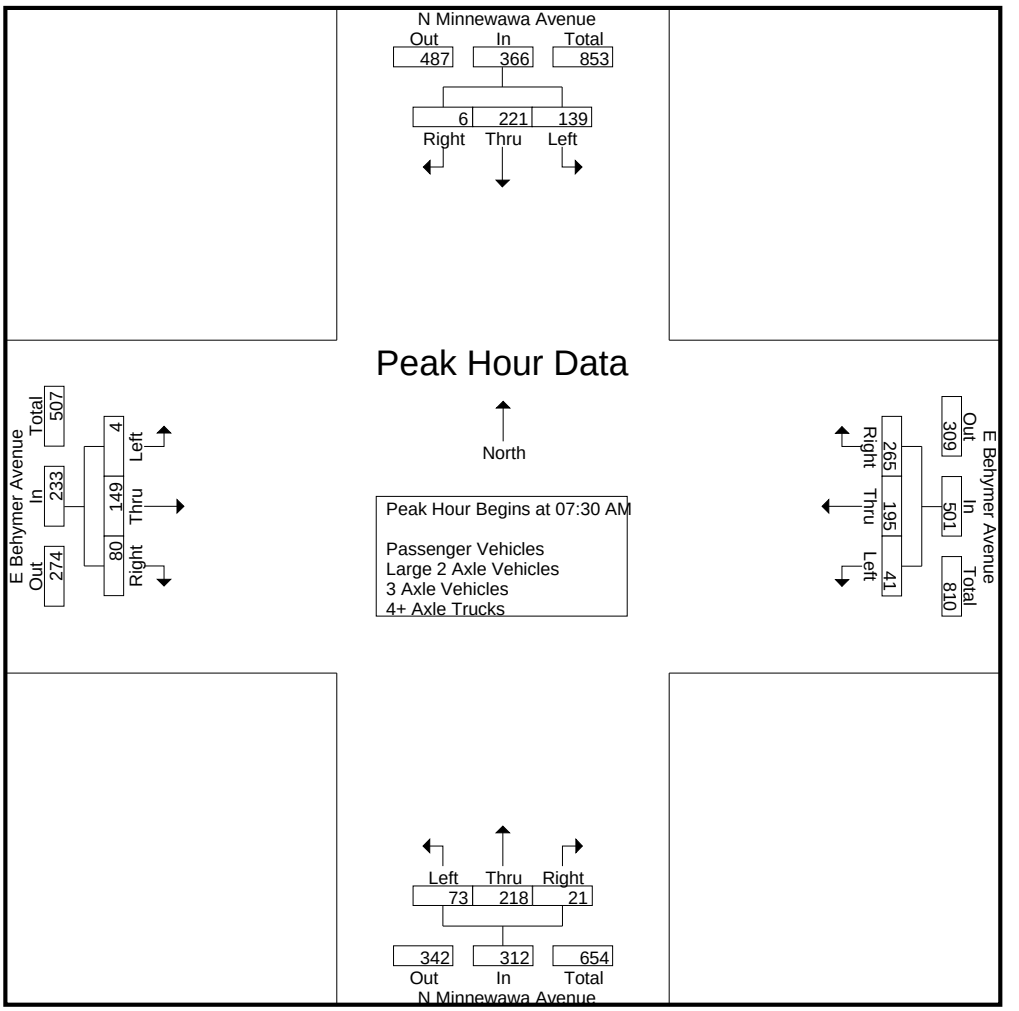
County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:30 AM				07:45 AM				07:30 AM			
+0 mins.	27	**61**	**4**	92	7	**68**	48	123	**22**	48	2	72	**2**	40	13	55
+15 mins.	27	60	0	87	**14**	56	57	127	9	62	**8**	79	1	35	**37**	**73**
+30 mins.	34	45	1	80	9	32	76	117	13	**72**	5	**90**	0	**44**	15	59
+45 mins.	**63**	48	0	**111**	11	39	**84**	**134**	8	62	6	76	1	30	15	46
Total Volume	151	214	5	370	41	195	265	501	52	244	21	317	4	149	80	233
% App. Total	40.8	57.8	1.4		8.2	38.9	52.9		16.4	77	6.6		1.7	63.9	34.3	
PHF	.599	.877	.313	.833	.732	.717	.789	.935	.591	.847	.656	.881	.500	.847	.541	.798

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	27	29	0	56	5	32	27	64	5	34	2	41	1	20	8	29	190
07:15 AM	28	33	2	63	4	49	45	98	8	40	7	55	1	25	12	38	254
07:30 AM	50	54	0	104	7	66	48	121	29	32	5	66	2	39	13	54	345
07:45 AM	27	61	3	91	14	49	55	118	19	45	2	66	1	32	36	69	344
Total	132	177	5	314	30	196	175	401	61	151	16	228	5	116	69	190	1133
08:00 AM	26	58	0	84	8	29	73	110	9	58	7	74	0	42	15	57	325
08:15 AM	32	43	1	76	11	39	82	132	12	67	4	83	1	29	12	42	333
08:30 AM	58	46	0	104	3	32	34	69	8	60	6	74	1	36	9	46	293
08:45 AM	26	33	0	59	3	45	29	77	5	28	5	38	0	25	12	37	211
Total	142	180	1	323	25	145	218	388	34	213	22	269	2	132	48	182	1162
Grand Total	274	357	6	637	55	341	393	789	95	364	38	497	7	248	117	372	2295
Apprch %	43	56	0.9		7	43.2	49.8		19.1	73.2	7.6		1.9	66.7	31.5		
Total %	11.9	15.6	0.3	27.8	2.4	14.9	17.1	34.4	4.1	15.9	1.7	21.7	0.3	10.8	5.1	16.2	

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**50**	54	0	**104**	7	**66**	48	121	**29**	32	5	66	**2**	39	13	54	**345**
07:45 AM	27	**61**	**3**	91	**14**	49	55	118	19	45	2	66	1	32	**36**	**69**	344
08:00 AM	26	58	0	84	8	29	73	110	9	58	**7**	74	0	**42**	15	57	325
08:15 AM	32	43	1	76	11	39	**82**	**132**	12	**67**	4	**83**	1	29	12	42	333
Total Volume	135	216	4	355	40	183	258	481	69	202	18	289	4	142	76	222	1347
% App. Total	38	60.8	1.1		8.3	38	53.6		23.9	69.9	6.2		1.8	64	34.2		
PHF	.675	.885	.333	.853	.714	.693	.787	.911	.595	.754	.643	.870	.500	.845	.528	.804	.976

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County of Fresno
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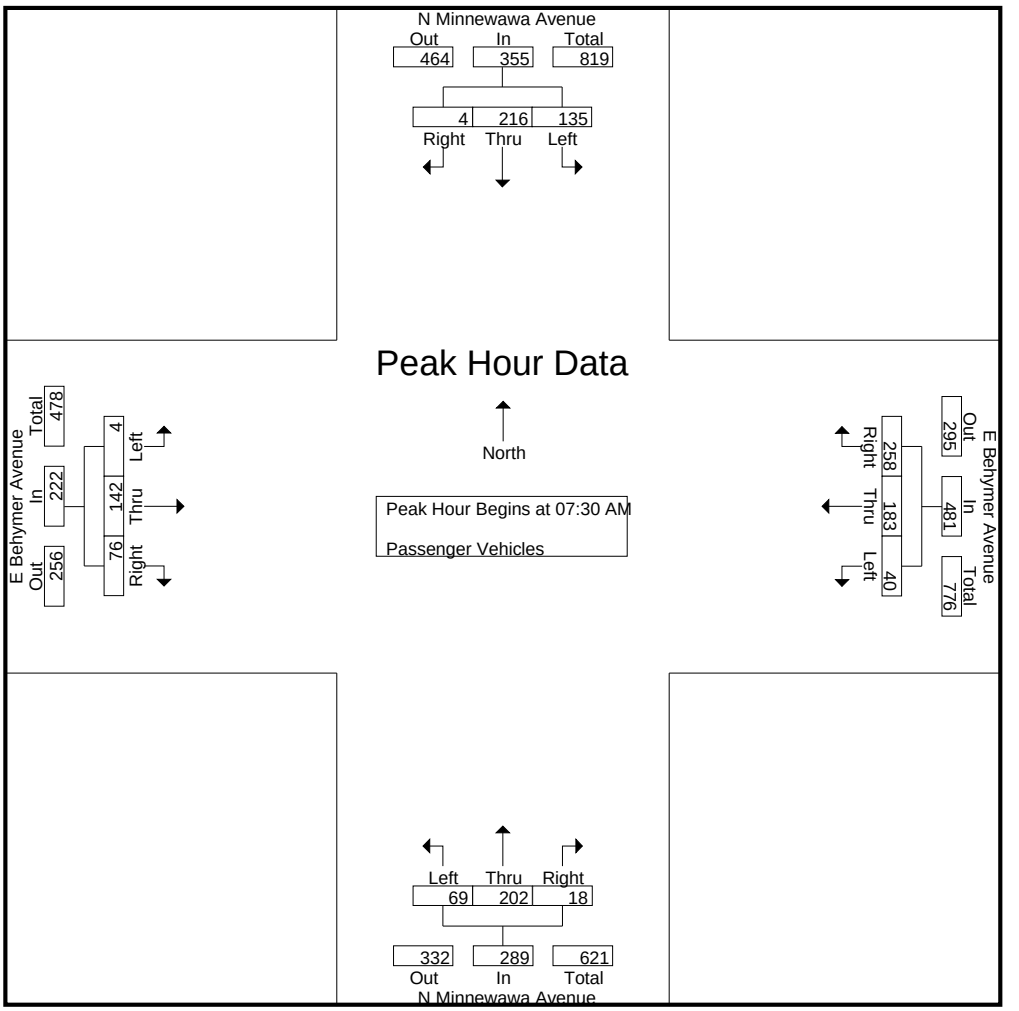
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	**50**	54	0	**104**	7	**66**	48	121	**29**	32	5	66	**2**	39	13	54
+15 mins.	27	**61**	**3**	91	**14**	49	55	118	19	45	2	66	1	32	**36**	**69**
+30 mins.	26	58	0	84	8	29	73	110	9	58	**7**	74	0	**42**	15	57
+45 mins.	32	43	1	76	11	39	**82**	**132**	12	**67**	4	**83**	1	29	12	42
Total Volume	135	216	4	355	40	183	258	481	69	202	18	289	4	142	76	222
% App. Total	38	60.8	1.1		8.3	38	53.6		23.9	69.9	6.2		1.8	64	34.2	
PHF	.675	.885	.333	.853	.714	.693	.787	.911	.595	.754	.643	.870	.500	.845	.528	.804

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	1	0	1	0	2	0	2	0	1	0	1	4
07:15 AM	0	0	0	0	0	0	0	0	0	2	0	2	1	2	0	3	5
07:30 AM	0	1	0	1	0	2	0	2	0	2	0	2	0	1	0	1	6
07:45 AM	0	0	0	0	0	5	0	5	2	2	0	4	0	2	1	3	12
Total	0	1	0	1	0	8	0	8	2	8	0	10	1	6	1	8	27
08:00 AM	0	1	0	1	0	1	0	1	0	2	0	2	0	1	0	1	5
08:15 AM	0	1	0	1	0	0	0	0	0	1	0	1	0	1	3	4	6
08:30 AM	1	0	0	1	1	0	0	1	0	1	0	1	0	0	0	0	3
08:45 AM	2	0	0	2	0	0	0	0	1	0	1	2	0	1	0	1	5
Total	3	2	0	5	1	1	0	2	1	4	1	6	0	3	3	6	19
Grand Total	3	3	0	6	1	9	0	10	3	12	1	16	1	9	4	14	46
Apprch %	50	50	0		10	90	0		18.8	75	6.2		7.1	64.3	28.6		
Total %	6.5	6.5	0	13	2.2	19.6	0	21.7	6.5	26.1	2.2	34.8	2.2	19.6	8.7	30.4	

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	**1**	0	**1**	0	2	0	2	0	**2**	0	2	0	1	0	1	6
07:45 AM	0	0	0	0	0	**5**	0	**5**	**2**	2	0	**4**	0	**2**	1	3	**12**
08:00 AM	0	1	0	1	0	1	0	1	0	2	0	2	0	1	0	1	5
08:15 AM	0	1	0	1	0	0	0	0	0	1	0	1	0	1	**3**	**4**	6
Total Volume	0	3	0	3	0	8	0	8	2	7	0	9	0	5	4	9	29
% App. Total	0	100	0		0	100	0		22.2	77.8	0		0	55.6	44.4		
PHF	.000	.750	.000	.750	.000	.400	.000	.400	.250	.875	.000	.563	.000	.625	.333	.563	.604

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County of Fresno
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File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
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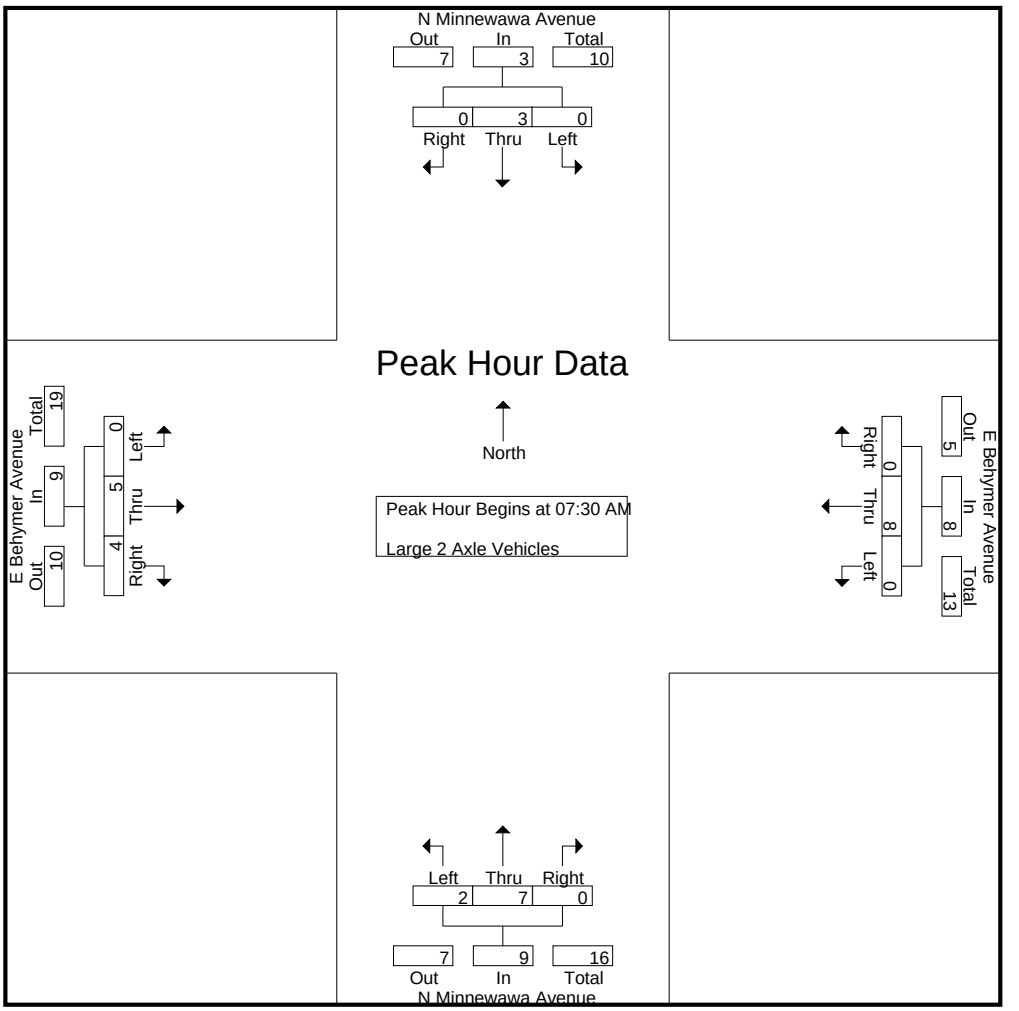

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	**1**	0	**1**	0	2	0	2	0	**2**	0	2	0	1	0	1
+15 mins.	0	0	0	0	0	**5**	0	**5**	**2**	2	0	**4**	0	**2**	1	3
+30 mins.	0	1	0	1	0	1	0	1	0	2	0	2	0	1	0	1
+45 mins.	0	1	0	1	0	0	0	0	0	1	0	1	0	1	**3**	**4**
Total Volume	0	3	0	3	0	8	0	8	2	7	0	9	0	5	4	9
% App. Total	0	100	0		0	100	0		22.2	77.8	0		0	55.6	44.4	
PHF	.000	.750	.000	.750	.000	.400	.000	.400	.250	.875	.000	.563	.000	.625	.333	.563

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County of Fresno
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E/W: E Behymer Avenue
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File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
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Groups Printed- 3 Axle Vehicles

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	2	2	0	1	0	1	0	0	0	0	3
07:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	2
07:30 AM	0	0	1	1	0	0	0	0	0	1	1	2	0	0	0	0	3
07:45 AM	0	0	0	0	0	2	1	3	1	0	0	1	0	1	0	1	5
Total	0	1	1	2	0	2	3	5	1	2	1	4	0	2	0	2	13
08:00 AM	0	0	0	0	0	0	1	1	0	1	0	1	0	1	0	1	3
08:15 AM	1	1	0	2	0	0	1	1	0	2	0	2	0	0	0	0	5
08:30 AM	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
08:45 AM	2	1	0	3	0	0	1	1	0	1	0	1	0	2	0	2	7
Total	7	3	0	10	0	0	3	3	0	4	0	4	0	3	0	3	20
Grand Total	7	4	1	12	0	2	6	8	1	6	1	8	0	5	0	5	33
Apprch %	58.3	33.3	8.3		0	25	75		12.5	75	12.5		0	100	0		
Total %	21.2	12.1	3	36.4	0	6.1	18.2	24.2	3	18.2	3	24.2	0	15.2	0	15.2	

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	**1**	1	0	0	0	0	0	1	**1**	**2**	0	0	0	0	3
07:45 AM	0	0	0	0	0	**2**	**1**	**3**	**1**	0	0	1	0	**1**	0	**1**	**5**
08:00 AM	0	0	0	0	0	0	1	1	0	1	0	1	0	1	0	1	3
08:15 AM	**1**	**1**	0	**2**	0	0	1	1	0	**2**	0	2	0	0	0	0	5
Total Volume	1	1	1	3	0	2	3	5	1	4	1	6	0	2	0	2	16
% App. Total	33.3	33.3	33.3		0	40	60		16.7	66.7	16.7		0	100	0		
PHF	.250	.250	.250	.375	.000	.250	.750	.417	.250	.500	.250	.750	.000	.500	.000	.500	.800

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File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
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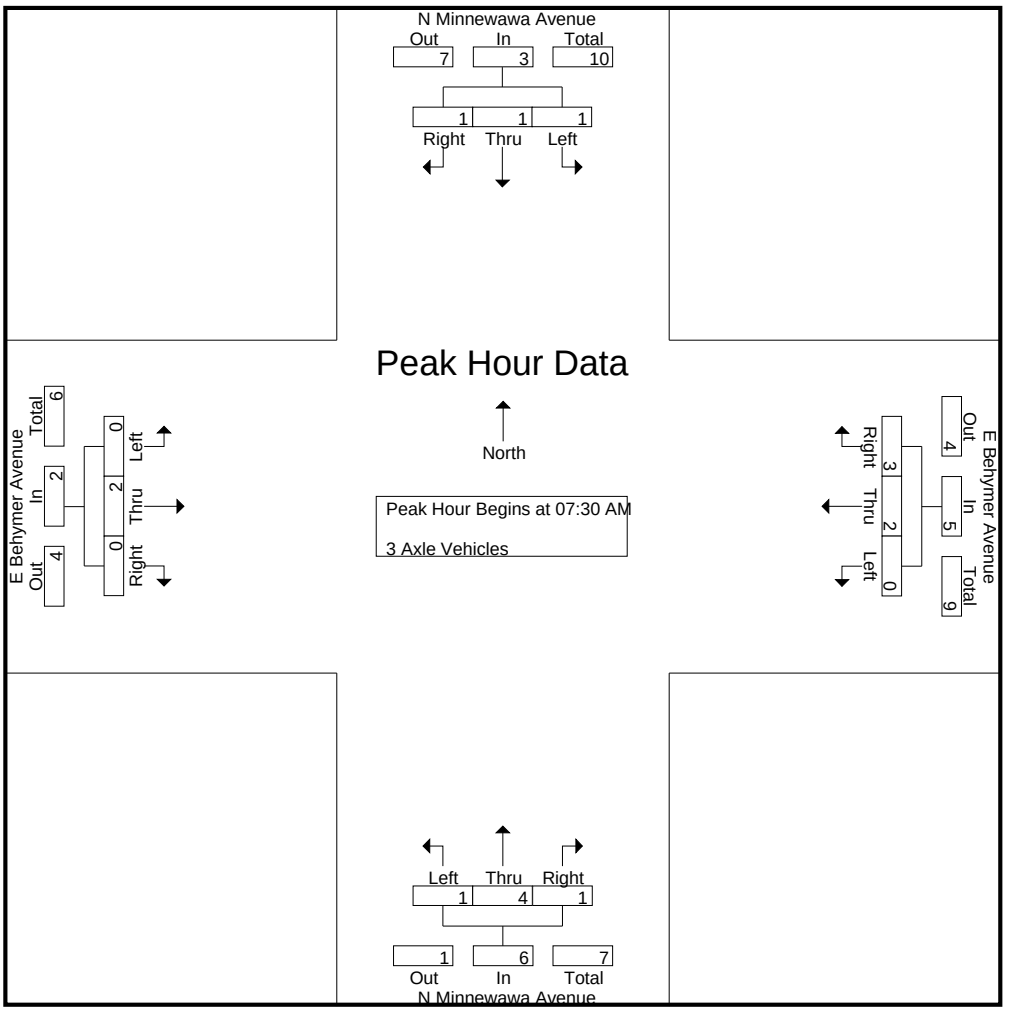

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	**1**	1	0	0	0	0	0	1	**1**	**2**	0	0	0	0
+15 mins.	0	0	0	0	0	**2**	**1**	**3**	**1**	0	0	1	0	**1**	0	**1**
+30 mins.	0	0	0	0	0	0	1	1	0	1	0	1	0	1	0	1
+45 mins.	**1**	**1**	0	**2**	0	0	1	1	0	**2**	0	2	0	0	0	0
Total Volume	1	1	1	3	0	2	3	5	1	4	1	6	0	2	0	2
% App. Total	33.3	33.3	33.3		0	40	60		16.7	66.7	16.7		0	100	0	
PHF	.250	.250	.250	.375	.000	.250	.750	.417	.250	.500	.250	.750	.000	.500	.000	.500

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Groups Printed- 4+ Axle Trucks

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	1	0	1	2	1	2	5	0	1	0	1	0	0	0	0	7
07:15 AM	1	0	0	1	0	0	2	2	0	0	0	0	0	0	0	0	3
07:30 AM	1	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
07:45 AM	0	0	1	1	0	0	1	1	0	1	0	1	0	0	0	0	3
Total	2	1	1	4	2	1	5	8	0	3	0	3	0	0	0	0	15
08:00 AM	1	1	0	2	1	2	2	5	0	1	1	2	0	0	0	0	9
08:15 AM	1	0	0	1	0	0	1	1	1	2	1	4	0	0	0	0	6
08:30 AM	0	1	0	1	0	0	1	1	0	1	0	1	0	1	0	1	4
08:45 AM	1	1	0	2	0	1	2	3	0	2	0	2	0	0	0	0	7
Total	3	3	0	6	1	3	6	10	1	6	2	9	0	1	0	1	26
Grand Total	5	4	1	10	3	4	11	18	1	9	2	12	0	1	0	1	41
Apprch %	50	40	10		16.7	22.2	61.1		8.3	75	16.7		0	100	0		
Total %	12.2	9.8	2.4	24.4	7.3	9.8	26.8	43.9	2.4	22	4.9	29.3	0	2.4	0	2.4	

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**1**	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
07:45 AM	0	0	**1**	1	0	0	1	1	0	1	0	1	0	0	0	0	3
08:00 AM	1	**1**	0	**2**	**1**	**2**	**2**	**5**	0	1	**1**	2	0	0	0	0	**9**
08:15 AM	1	0	0	1	0	0	1	1	**1**	**2**	1	**4**	0	0	0	0	6
Total Volume	3	1	1	5	1	2	4	7	1	5	2	8	0	0	0	0	20
% App. Total	60	20	20		14.3	28.6	57.1		12.5	62.5	25		0	0	0		
PHF	.750	.250	.250	.625	.250	.250	.500	.350	.250	.625	.500	.500	.000	.000	.000	.000	.556

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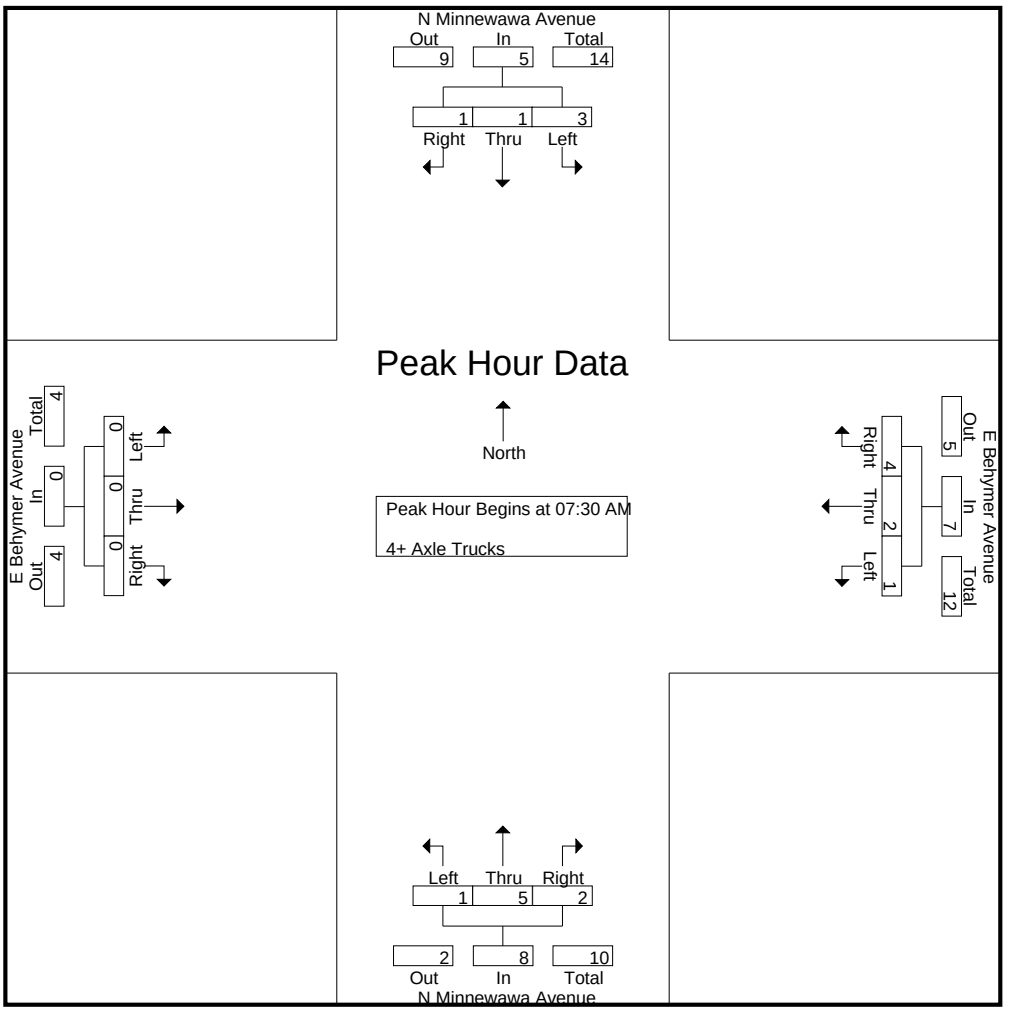
County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	**1**	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0
+15 mins.	0	0	**1**	1	0	0	1	1	0	1	0	1	0	0	0	0
+30 mins.	1	**1**	0	**2**	**1**	**2**	**2**	**5**	0	1	**1**	2	0	0	0	0
+45 mins.	1	0	0	1	0	0	1	1	**1**	**2**	1	**4**	0	0	0	0
Total Volume	3	1	1	5	1	2	4	7	1	5	2	8	0	0	0	0
% App. Total	60	20	20		14.3	28.6	57.1		12.5	62.5	25		0	0	0	
PHF	.750	.250	.250	.625	.250	.250	.500	.350	.250	.625	.500	.500	.000	.000	.000	.000

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File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	44	50	0	94	6	22	35	63	17	54	12	83	1	35	8	44	284
04:15 PM	29	50	1	80	4	34	38	76	14	54	4	72	0	33	5	38	266
04:30 PM	36	52	0	88	9	40	40	89	8	50	8	66	2	30	10	42	285
04:45 PM	30	49	1	80	6	39	36	81	12	56	6	74	1	31	8	40	275
Total	139	201	2	342	25	135	149	309	51	214	30	295	4	129	31	164	1110
05:00 PM	40	48	0	88	11	44	29	84	15	44	8	67	2	44	14	60	299
05:15 PM	48	42	1	91	11	61	47	119	9	66	8	83	0	38	9	47	340
05:30 PM	45	47	0	92	5	51	37	93	15	70	6	91	1	35	10	46	322
05:45 PM	25	33	2	60	7	63	39	109	13	69	11	93	1	30	12	43	305
Total	158	170	3	331	34	219	152	405	52	249	33	334	4	147	45	196	1266
Grand Total	297	371	5	673	59	354	301	714	103	463	63	629	8	276	76	360	2376
Apprch %	44.1	55.1	0.7		8.3	49.6	42.2		16.4	73.6	10		2.2	76.7	21.1		
Total %	12.5	15.6	0.2	28.3	2.5	14.9	12.7	30.1	4.3	19.5	2.7	26.5	0.3	11.6	3.2	15.2	
Passenger Vehicles	290	353	5	648	57	347	295	699	101	451	62	614	8	269	75	352	2313
% Passenger Vehicles	97.6	95.1	100	96.3	96.6	98	98	97.9	98.1	97.4	98.4	97.6	100	97.5	98.7	97.8	97.3
Large 2 Axle Vehicles	2	4	0	6	1	1	2	4	0	4	1	5	0	3	0	3	18
% Large 2 Axle Vehicles	0.7	1.1	0	0.9	1.7	0.3	0.7	0.6	0	0.9	1.6	0.8	0	1.1	0	0.8	0.8
3 Axle Vehicles	1	7	0	8	1	1	1	3	1	3	0	4	0	4	0	4	19
% 3 Axle Vehicles	0.3	1.9	0	1.2	1.7	0.3	0.3	0.4	1	0.6	0	0.6	0	1.4	0	1.1	0.8
4+ Axle Trucks	4	7	0	11	0	5	3	8	1	5	0	6	0	0	1	1	26
% 4+ Axle Trucks	1.3	1.9	0	1.6	0	1.4	1	1.1	1	1.1	0	1	0	0	1.3	0.3	1.1

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	40	**48**	0	88	**11**	44	29	84	**15**	44	8	67	**2**	**44**	**14**	**60**	299
05:15 PM	**48**	42	1	91	11	61	**47**	**119**	9	66	8	83	0	38	9	47	**340**
05:30 PM	45	47	0	**92**	5	51	37	93	15	**70**	6	91	1	35	10	46	322
05:45 PM	25	33	**2**	60	7	**63**	39	109	13	69	**11**	**93**	1	30	12	43	305
Total Volume	158	170	3	331	34	219	152	405	52	249	33	334	4	147	45	196	1266
% App. Total	47.7	51.4	0.9		8.4	54.1	37.5		15.6	74.6	9.9		2	75	23		
PHF	.823	.885	.375	.899	.773	.869	.809	.851	.867	.889	.750	.898	.500	.835	.804	.817	.931

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File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
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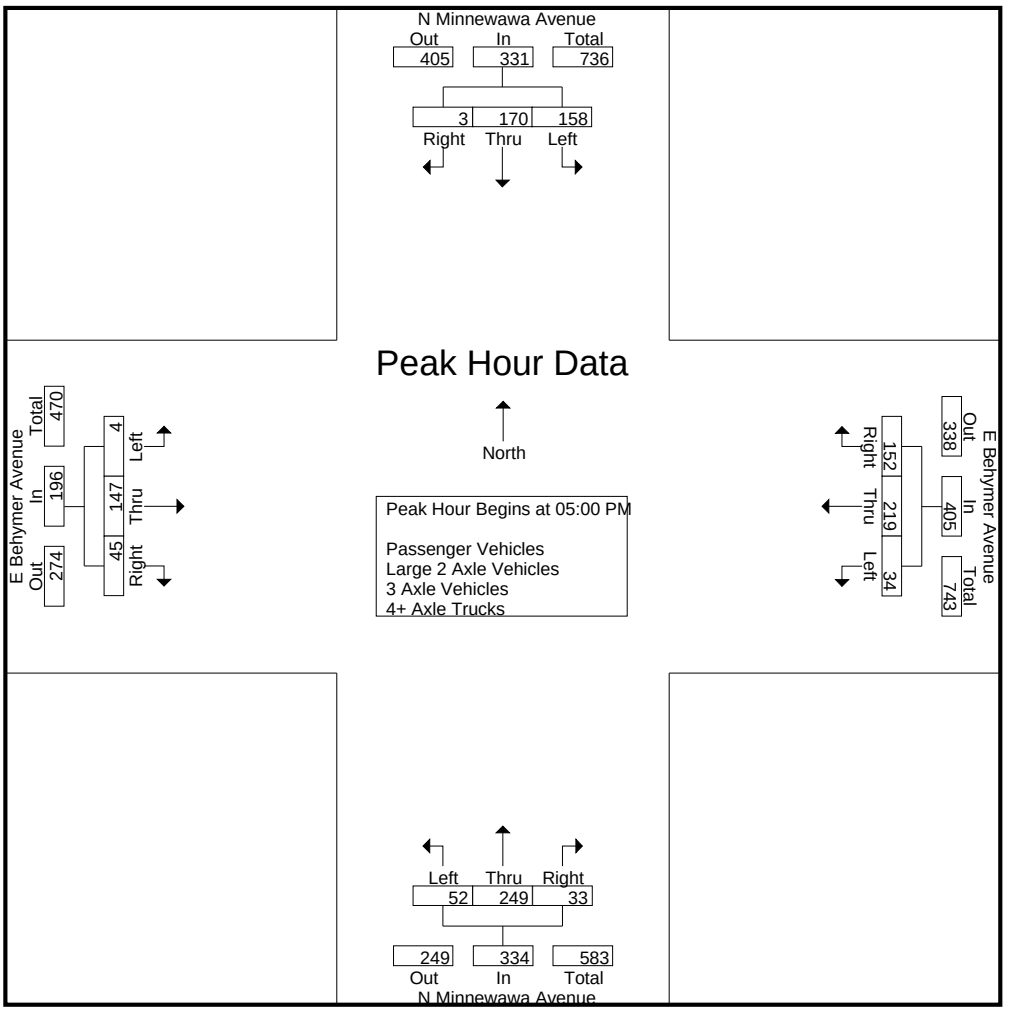

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	30	**49**	**1**	80	**11**	44	29	84	**15**	44	8	67	**2**	**44**	**14**	**60**
+15 mins.	40	48	0	88	11	61	**47**	**119**	9	66	8	83	0	38	9	47
+30 mins.	**48**	42	1	91	5	51	37	93	15	**70**	6	91	1	35	10	46
+45 mins.	45	47	0	**92**	7	**63**	39	109	13	69	**11**	**93**	1	30	12	43
Total Volume	163	186	2	351	34	219	152	405	52	249	33	334	4	147	45	196
% App. Total	46.4	53	0.6		8.4	54.1	37.5		15.6	74.6	9.9		2	75	23	
PHF	.849	.949	.500	.954	.773	.869	.809	.851	.867	.889	.750	.898	.500	.835	.804	.817

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Weather: Clear

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Groups Printed- Passenger Vehicles

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	44	45	0	89	6	21	34	61	16	50	12	78	1	35	8	44	272
04:15 PM	26	47	1	74	3	32	38	73	14	53	4	71	0	32	5	37	255
04:30 PM	35	49	0	84	9	39	38	86	8	48	7	63	2	29	10	41	274
04:45 PM	30	48	1	79	6	39	35	80	12	55	6	73	1	30	8	39	271
Total	135	189	2	326	24	131	145	300	50	206	29	285	4	126	31	161	1072
05:00 PM	40	47	0	87	11	43	29	83	14	43	8	65	2	42	14	58	293
05:15 PM	46	41	1	88	11	60	46	117	9	66	8	83	0	38	9	47	335
05:30 PM	45	45	0	90	4	51	36	91	15	68	6	89	1	34	10	45	315
05:45 PM	24	31	2	57	7	62	39	108	13	68	11	92	1	29	11	41	298
Total	155	164	3	322	33	216	150	399	51	245	33	329	4	143	44	191	1241
Grand Total	290	353	5	648	57	347	295	699	101	451	62	614	8	269	75	352	2313
Apprch %	44.8	54.5	0.8		8.2	49.6	42.2		16.4	73.5	10.1		2.3	76.4	21.3		
Total %	12.5	15.3	0.2	28	2.5	15	12.8	30.2	4.4	19.5	2.7	26.5	0.3	11.6	3.2	15.2	

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	40	**47**	0	87	**11**	43	29	83	14	43	8	65	**2**	**42**	**14**	**58**	293
05:15 PM	**46**	41	1	88	11	60	**46**	**117**	9	66	8	83	0	38	9	47	**335**
05:30 PM	45	45	0	**90**	4	51	36	91	**15**	**68**	6	89	1	34	10	45	315
05:45 PM	24	31	**2**	57	7	**62**	39	108	13	68	**11**	**92**	1	29	11	41	298
Total Volume	155	164	3	322	33	216	150	399	51	245	33	329	4	143	44	191	1241
% App. Total	48.1	50.9	0.9		8.3	54.1	37.6		15.5	74.5	10		2.1	74.9	23		
PHF	.842	.872	.375	.894	.750	.871	.815	.853	.850	.901	.750	.894	.500	.851	.786	.823	.926

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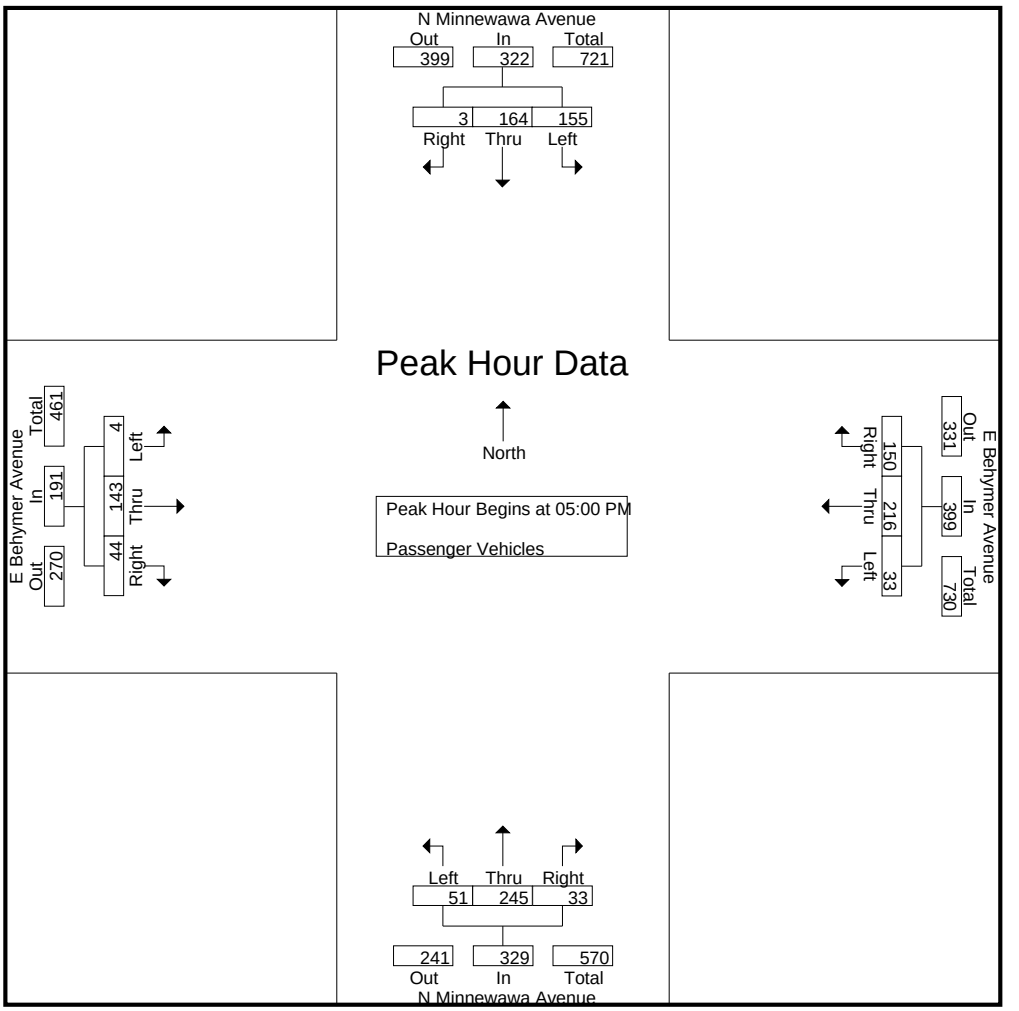

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	40	**47**	0	87	**11**	43	29	83	14	43	8	65	**2**	**42**	**14**	**58**
+15 mins.	**46**	41	1	88	11	60	**46**	**117**	9	66	8	83	0	38	9	47
+30 mins.	45	45	0	**90**	4	51	36	91	**15**	**68**	6	89	1	34	10	45
+45 mins.	24	31	**2**	57	7	**62**	39	108	13	68	**11**	**92**	1	29	11	41
Total Volume	155	164	3	322	33	216	150	399	51	245	33	329	4	143	44	191
% App. Total	48.1	50.9	0.9		8.3	54.1	37.6		15.5	74.5	10		2.1	74.9	23	
PHF	.842	.872	.375	.894	.750	.871	.815	.853	.850	.901	.750	.894	.500	.851	.786	.823

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Groups Printed- Large 2 Axle Vehicles

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	1	0	1	0	2	0	2	0	0	0	0	3
04:15 PM	2	0	0	2	1	0	0	1	0	0	0	0	0	1	0	1	4
04:30 PM	0	1	0	1	0	0	1	1	0	0	1	1	0	1	0	1	4
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2	1	0	3	1	1	1	3	0	2	1	3	0	2	0	2	11
05:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:15 PM	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	2
05:30 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
05:45 PM	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	3
Total	0	3	0	3	0	0	1	1	0	2	0	2	0	1	0	1	7
Grand Total	2	4	0	6	1	1	2	4	0	4	1	5	0	3	0	3	18
Apprch %	33.3	66.7	0		25	25	50		0	80	20		0	100	0		
Total %	11.1	22.2	0	33.3	5.6	5.6	11.1	22.2	0	22.2	5.6	27.8	0	16.7	0	16.7	

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	1
05:15 PM	0	1	0	1	0	0	**1**	**1**	0	0	0	0	0	0	0	0	2
05:30 PM	0	0	0	0	0	0	0	0	0	**1**	0	**1**	0	0	0	0	1
05:45 PM	0	1	0	1	0	0	0	0	0	1	0	1	0	**1**	0	**1**	**3**
Total Volume	0	3	0	3	0	0	1	1	0	2	0	2	0	1	0	1	7
% App. Total	0	100	0		0	0	100		0	100	0		0	100	0		
PHF	.000	.750	.000	.750	.000	.000	.250	.250	.000	.500	.000	.500	.000	.250	.000	.250	.583

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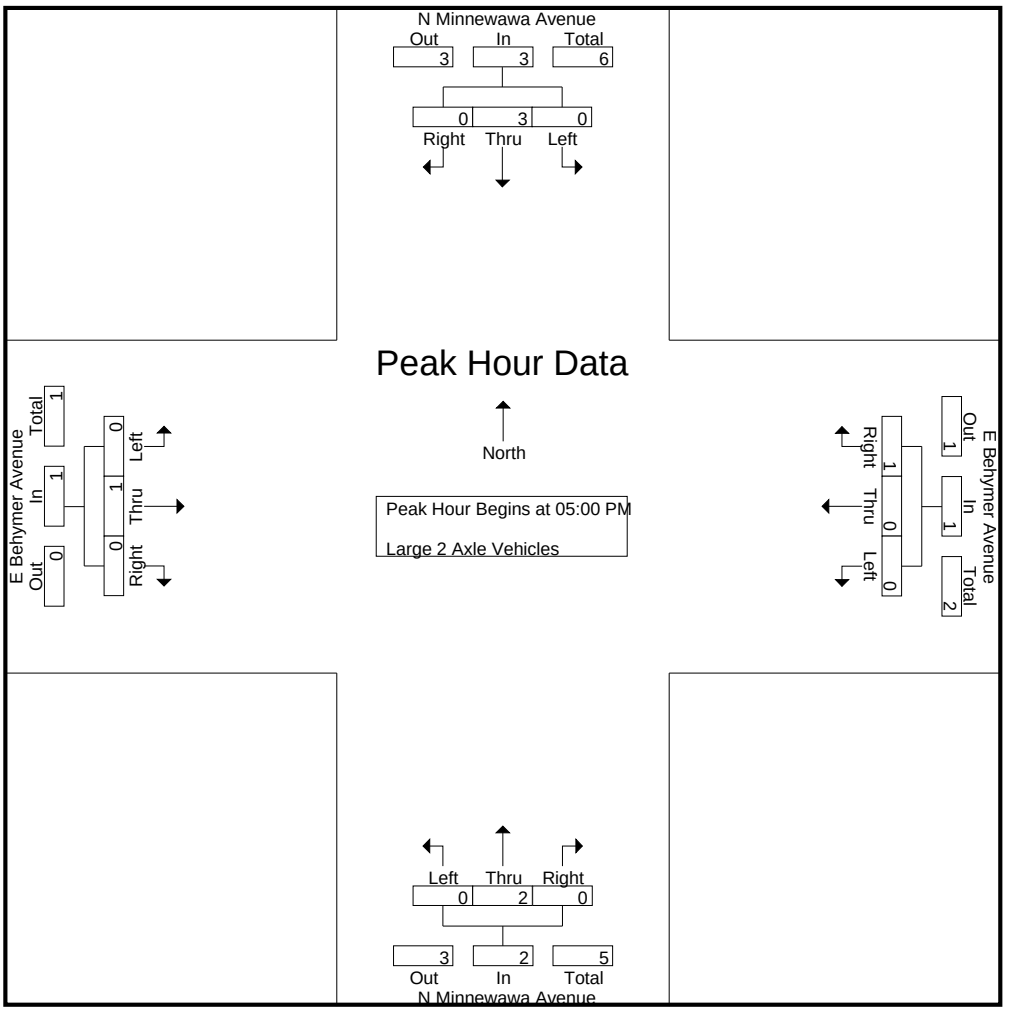

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	1	0	1	0	0	**1**	**1**	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	**1**	0	**1**	0	0	0	0
+45 mins.	0	1	0	1	0	0	0	0	0	1	0	1	0	**1**	0	**1**
Total Volume	0	3	0	3	0	0	1	1	0	2	0	2	0	1	0	1
% App. Total	0	100	0		0	0	100		0	100	0		0	100	0	
PHF	.000	.750	.000	.750	.000	.000	.250	.250	.000	.500	.000	.500	.000	.250	.000	.250

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Groups Printed- 3 Axle Vehicles

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	2	0	2	0	0	1	1	0	1	0	1	0	0	0	0	4
04:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
04:30 PM	0	2	0	2	0	1	0	1	0	0	0	0	0	0	0	0	3
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	0	6	0	6	0	1	1	2	0	1	0	1	0	1	0	1	10
05:00 PM	0	0	0	0	0	0	0	0	1	1	0	2	0	2	0	2	4
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	1	0	1	1	0	0	1	0	1	0	1	0	1	0	1	4
05:45 PM	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	1	1	0	2	1	0	0	1	1	2	0	3	0	3	0	3	9
Grand Total	1	7	0	8	1	1	1	3	1	3	0	4	0	4	0	4	19
Apprch %	12.5	87.5	0		33.3	33.3	33.3		25	75	0		0	100	0		
Total %	5.3	36.8	0	42.1	5.3	5.3	5.3	15.8	5.3	15.8	0	21.1	0	21.1	0	21.1	

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	0	0	0	**1**	**1**	0	**2**	0	**2**	0	**2**	**4**
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	**1**	0	**1**	**1**	0	0	**1**	0	1	0	1	0	1	0	1	4
05:45 PM	**1**	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	1	1	0	2	1	0	0	1	1	2	0	3	0	3	0	3	9
% App. Total	50	50	0		100	0	0		33.3	66.7	0		0	100	0		
PHF	.250	.250	.000	.500	.250	.000	.000	.250	.250	.500	.000	.375	.000	.375	.000	.375	.563

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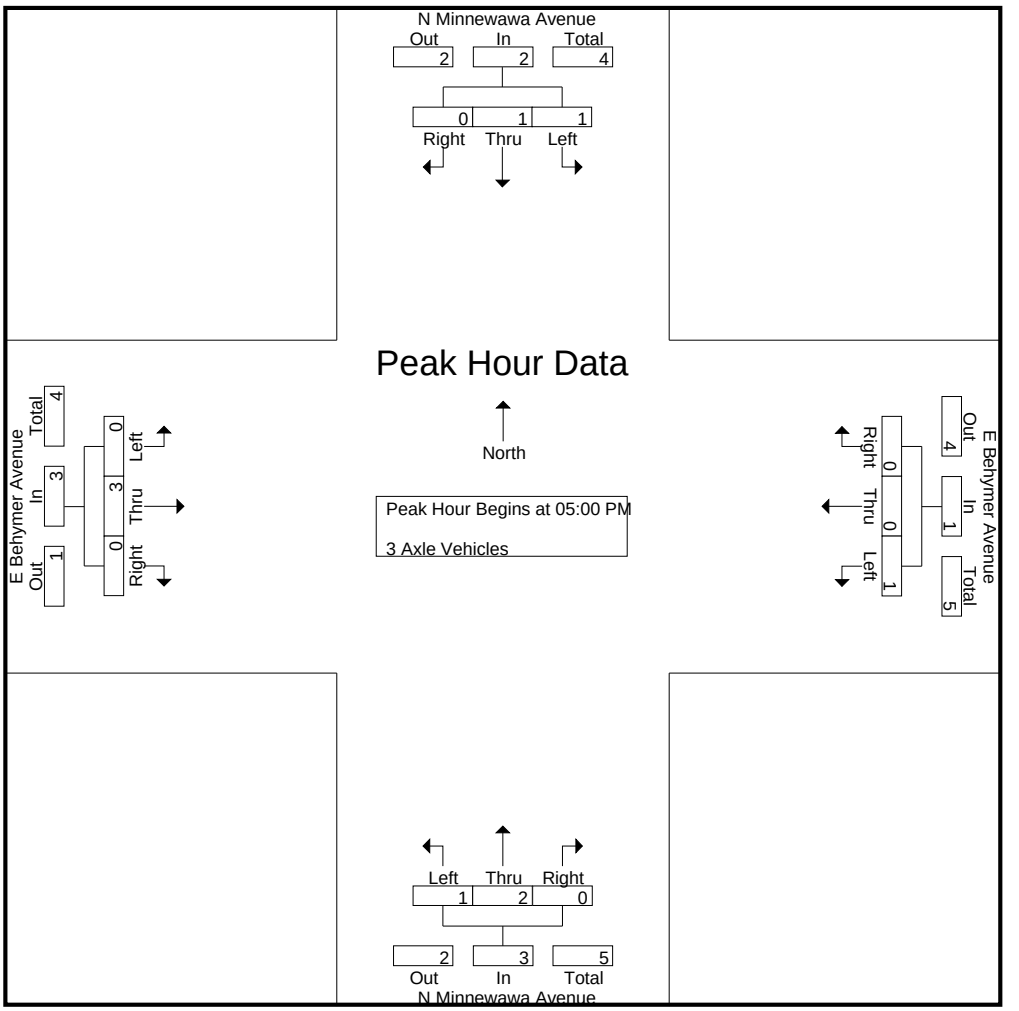
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	**1**	**1**	0	**2**	0	**2**	0	**2**
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	**1**	0	**1**	**1**	0	0	**1**	0	1	0	1	0	1	0	1
+45 mins.	**1**	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	1	0	2	1	0	0	1	1	2	0	3	0	3	0	3
% App. Total	50	50	0		100	0	0		33.3	66.7	0		0	100	0	
PHF	.250	.250	.000	.500	.250	.000	.000	.250	.250	.500	.000	.375	.000	.375	.000	.375

Counts Unlimited, Inc.
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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	3	0	3	0	0	0	0	1	1	0	2	0	0	0	0	5
04:15 PM	1	1	0	2	0	2	0	2	0	1	0	1	0	0	0	0	5
04:30 PM	1	0	0	1	0	0	1	1	0	2	0	2	0	0	0	0	4
04:45 PM	0	1	0	1	0	0	1	1	0	1	0	1	0	0	0	0	3
Total	2	5	0	7	0	2	2	4	1	5	0	6	0	0	0	0	17
05:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
05:15 PM	2	0	0	2	0	1	0	1	0	0	0	0	0	0	0	0	3
05:30 PM	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	2
05:45 PM	0	1	0	1	0	1	0	1	0	0	0	0	0	0	1	1	3
Total	2	2	0	4	0	3	1	4	0	0	0	0	0	0	1	1	9
Grand Total	4	7	0	11	0	5	3	8	1	5	0	6	0	0	1	1	26
Apprch %	36.4	63.6	0		0	62.5	37.5		16.7	83.3	0		0	0	100		
Total %	15.4	26.9	0	42.3	0	19.2	11.5	30.8	3.8	19.2	0	23.1	0	0	3.8	3.8	

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	**1**	0	**1**	0	0	0	0	0	0	0	0	1
05:15 PM	**2**	0	0	**2**	0	1	0	1	0	0	0	0	0	0	0	0	**3**
05:30 PM	0	**1**	0	1	0	0	**1**	1	0	0	0	0	0	0	0	0	2
05:45 PM	0	1	0	1	0	1	0	1	0	0	0	0	0	0	**1**	**1**	3
Total Volume	2	2	0	4	0	3	1	4	0	0	0	0	0	0	1	1	9
% App. Total	50	50	0		0	75	25		0	0	0		0	0	100		
PHF	.250	.500	.000	.500	.000	.750	.250	1.00	.000	.000	.000	.000	.000	.000	.250	.250	.750

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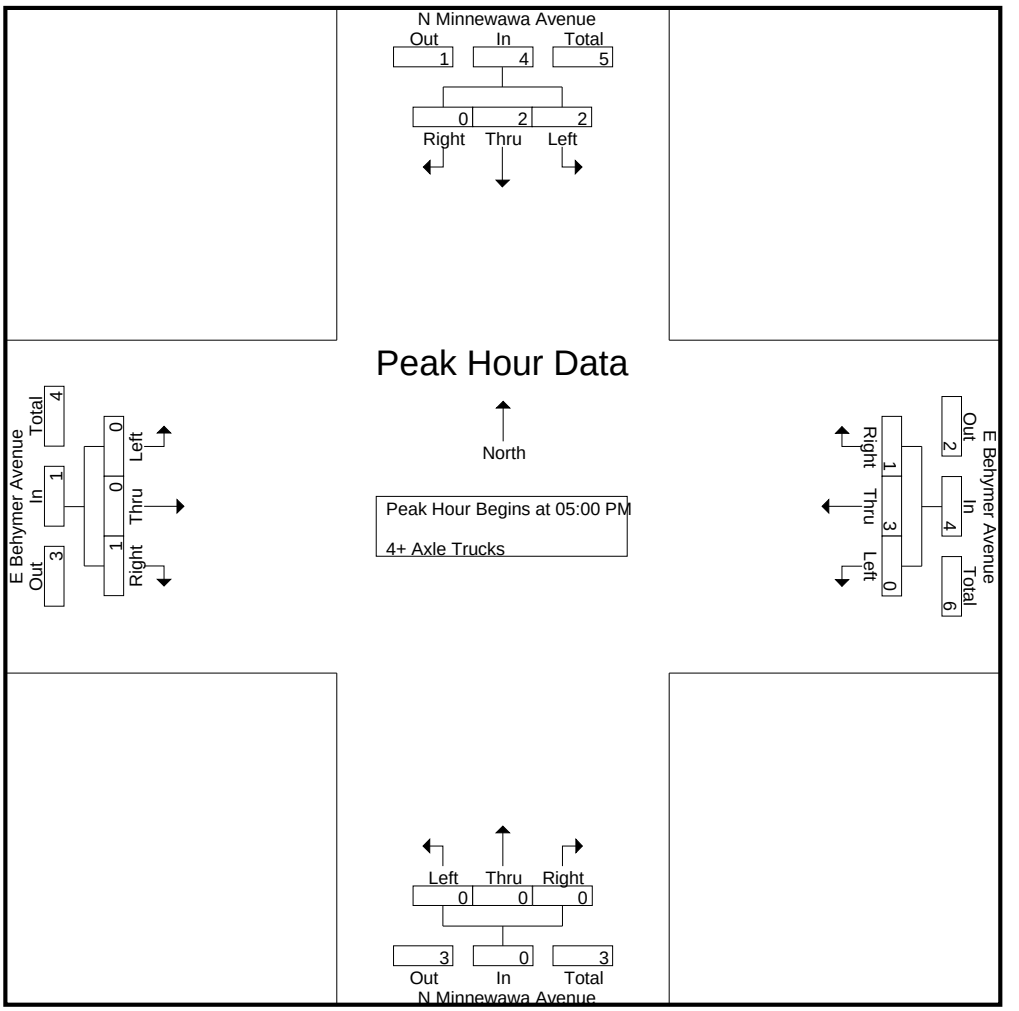
County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	**1**	0	**1**	0	0	0	0	0	0	0	0
+15 mins.	**2**	0	0	**2**	0	1	0	1	0	0	0	0	0	0	0	0
+30 mins.	0	**1**	0	1	0	0	**1**	1	0	0	0	0	0	0	0	0
+45 mins.	0	1	0	1	0	1	0	1	0	0	0	0	0	0	**1**	**1**
Total Volume	2	2	0	4	0	3	1	4	0	0	0	0	0	0	1	1
% App. Total	50	50	0		0	75	25		0	0	0		0	0	100	
PHF	.250	.500	.000	.500	.000	.750	.250	1.000	.000	.000	.000	.000	.000	.000	.250	.250

Location: Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue

Date: 5/23/2024
Day: Thursday

PEDESTRIANS

	North Leg N Minnewawa Avenue	East Leg E Behymer Avenue	South Leg N Minnewawa Avenue	West Leg E Behymer Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	1	1
8:45 AM	0	7	0	0	7
TOTAL VOLUMES:	0	7	0	1	8

	North Leg N Minnewawa Avenue	East Leg E Behymer Avenue	South Leg N Minnewawa Avenue	West Leg E Behymer Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0

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Location: Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue

Date: 5/23/2024
Day: Thursday

BICYCLES

	Southbound N Minnewawa Avenue			Westbound E Behymer Avenue			Northbound N Minnewawa Avenue			Eastbound E Behymer Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	2	0	0	0	0	0	0	0	0	0	0	2

	Southbound N Minnewawa Avenue			Westbound E Behymer Avenue			Northbound N Minnewawa Avenue			Eastbound E Behymer Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	0	0

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County of Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road
Weather: Clear

File Name : 05_CFO_Min_Per AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Total Volume

	N Minnewawa Avenue Southbound				Perrin Road Westbound				N Minnewawa Avenue Northbound				Perrin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	43	0	43	0	0	0	0	1	44	2	47	3	0	1	4	94
07:15 AM	0	47	1	48	0	0	0	0	1	55	1	57	3	0	1	4	109
07:30 AM	0	74	3	77	0	0	1	1	1	67	0	68	1	0	1	2	148
07:45 AM	2	108	0	110	3	0	0	3	1	68	3	72	2	0	1	3	188
Total	2	272	4	278	3	0	1	4	4	234	6	244	9	0	4	13	539
08:00 AM	0	84	1	85	1	0	0	1	0	83	3	86	3	0	1	4	176
08:15 AM	0	71	2	73	0	0	1	1	1	91	5	97	2	0	0	2	173
08:30 AM	0	61	1	62	1	0	0	1	0	67	2	69	0	0	1	1	133
08:45 AM	0	46	0	46	1	0	0	1	0	42	3	45	1	0	0	1	93
Total	0	262	4	266	3	0	1	4	1	283	13	297	6	0	2	8	575
Grand Total	2	534	8	544	6	0	2	8	5	517	19	541	15	0	6	21	1114
Apprch %	0.4	98.2	1.5		75	0	25		0.9	95.6	3.5		71.4	0	28.6		
Total %	0.2	47.9	0.7	48.8	0.5	0	0.2	0.7	0.4	46.4	1.7	48.6	1.3	0	0.5	1.9	

	N Minnewawa Avenue Southbound				Perrin Road Westbound				N Minnewawa Avenue Northbound				Perrin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	74	**3**	77	0	0	**1**	1	**1**	67	0	68	1	0	**1**	2	148
07:45 AM	**2**	**108**	0	**110**	**3**	0	0	**3**	1	68	3	72	2	0	1	3	**188**
08:00 AM	0	84	1	85	1	0	0	1	0	83	3	86	**3**	0	1	**4**	176
08:15 AM	0	71	2	73	0	0	1	1	1	**91**	**5**	**97**	2	0	0	2	173
Total Volume	2	337	6	345	4	0	2	6	3	309	11	323	8	0	3	11	685
% App. Total	0.6	97.7	1.7		66.7	0	33.3		0.9	95.7	3.4		72.7	0	27.3		
PHF	.250	.780	.500	.784	.333	.000	.500	.500	.750	.849	.550	.832	.667	.000	.750	.688	.911

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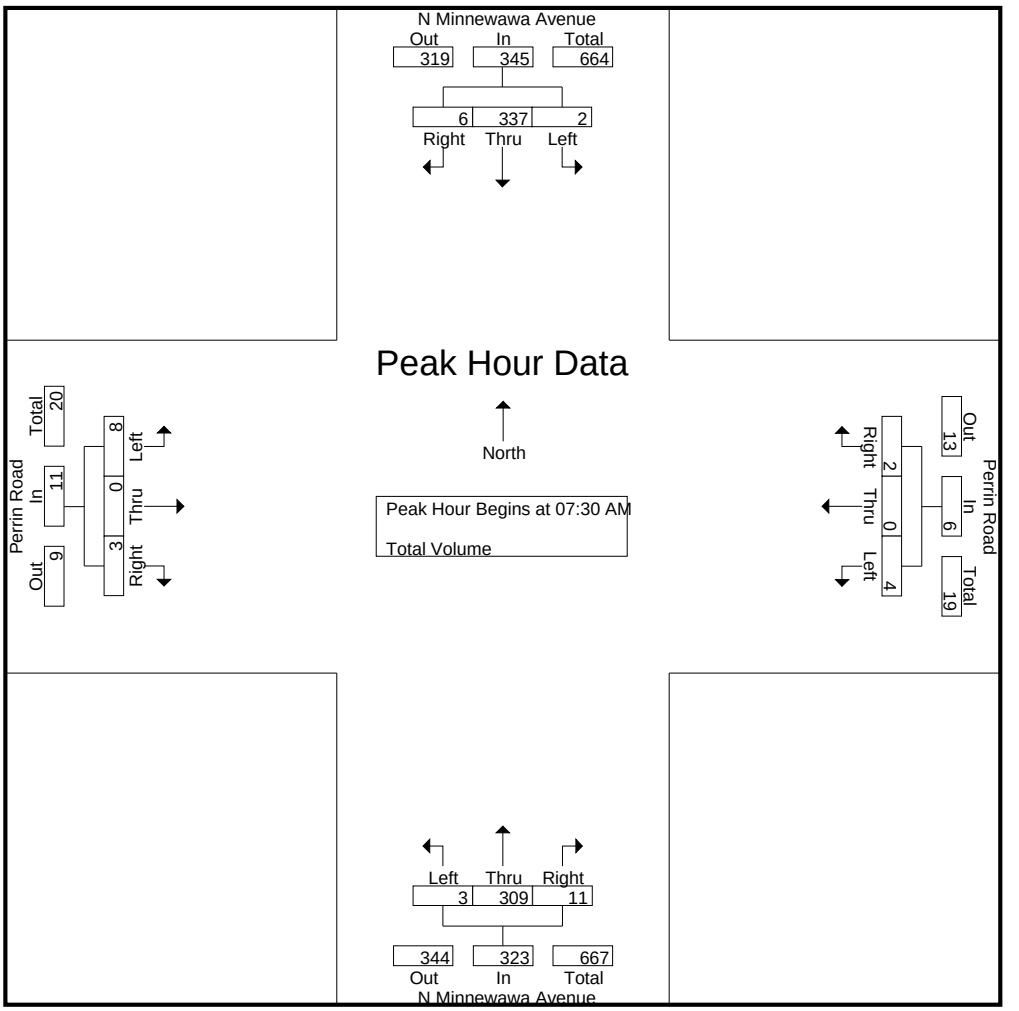
County of Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road
Weather: Clear

File Name : 05_CFO_Min_Per AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:45 AM				07:00 AM			
+0 mins.	0	74	**3**	77	0	0	**1**	1	**1**	68	3	72	**3**	0	**1**	**4**
+15 mins.	**2**	**108**	0	**110**	**3**	0	0	**3**	0	83	3	86	3	0	1	4
+30 mins.	0	84	1	85	1	0	0	1	1	**91**	**5**	**97**	1	0	1	2
+45 mins.	0	71	2	73	0	0	1	1	0	67	2	69	2	0	1	3
Total Volume	2	337	6	345	4	0	2	6	2	309	13	324	9	0	4	13
% App. Total	0.6	97.7	1.7		66.7	0	33.3		0.6	95.4	4		69.2	0	30.8	
PHF	.250	.780	.500	.784	.333	.000	.500	.500	.500	.849	.650	.835	.750	.000	1.000	.813

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County of Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road
Weather: Clear

File Name : 05_CFO_Min_Per PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Total Volume

	N Minnewawa Avenue Southbound				Perrin Road Westbound				N Minnewawa Avenue Northbound				Perrin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	2	61	0	63	1	0	0	1	0	83	1	84	0	0	1	1	149
04:15 PM	0	58	1	59	0	0	0	0	0	65	1	66	0	0	0	0	125
04:30 PM	0	66	0	66	0	0	0	0	1	69	1	71	0	0	1	1	138
04:45 PM	0	65	0	65	1	0	0	1	0	75	0	75	0	0	0	0	141
Total	2	250	1	253	2	0	0	2	1	292	3	296	0	0	2	2	553
05:00 PM	0	70	0	70	2	0	0	2	0	70	0	70	0	0	0	0	142
05:15 PM	0	67	0	67	1	0	2	3	0	83	0	83	0	0	0	0	153
05:30 PM	0	59	0	59	5	0	0	5	0	94	0	94	0	0	1	1	159
05:45 PM	0	54	1	55	1	0	0	1	0	91	2	93	0	0	1	1	150
Total	0	250	1	251	9	0	2	11	0	338	2	340	0	0	2	2	604
Grand Total	2	500	2	504	11	0	2	13	1	630	5	636	0	0	4	4	1157
Apprch %	0.4	99.2	0.4		84.6	0	15.4		0.2	99.1	0.8		0	0	100		
Total %	0.2	43.2	0.2	43.6	1	0	0.2	1.1	0.1	54.5	0.4	55	0	0	0.3	0.3	

	N Minnewawa Avenue Southbound				Perrin Road Westbound				N Minnewawa Avenue Northbound				Perrin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	**70**	0	**70**	2	0	0	2	0	70	0	70	0	0	0	0	142
05:15 PM	0	67	0	67	1	0	**2**	3	0	83	0	83	0	0	0	0	153
05:30 PM	0	59	0	59	**5**	0	0	**5**	0	**94**	0	**94**	0	0	**1**	**1**	**159**
05:45 PM	0	54	**1**	55	1	0	0	1	0	91	**2**	93	0	0	1	1	150
Total Volume	0	250	1	251	9	0	2	11	0	338	2	340	0	0	2	2	604
% App. Total	0	99.6	0.4		81.8	0	18.2		0	99.4	0.6		0	0	100		
PHF	.000	.893	.250	.896	.450	.000	.250	.550	.000	.899	.250	.904	.000	.000	.500	.500	.950

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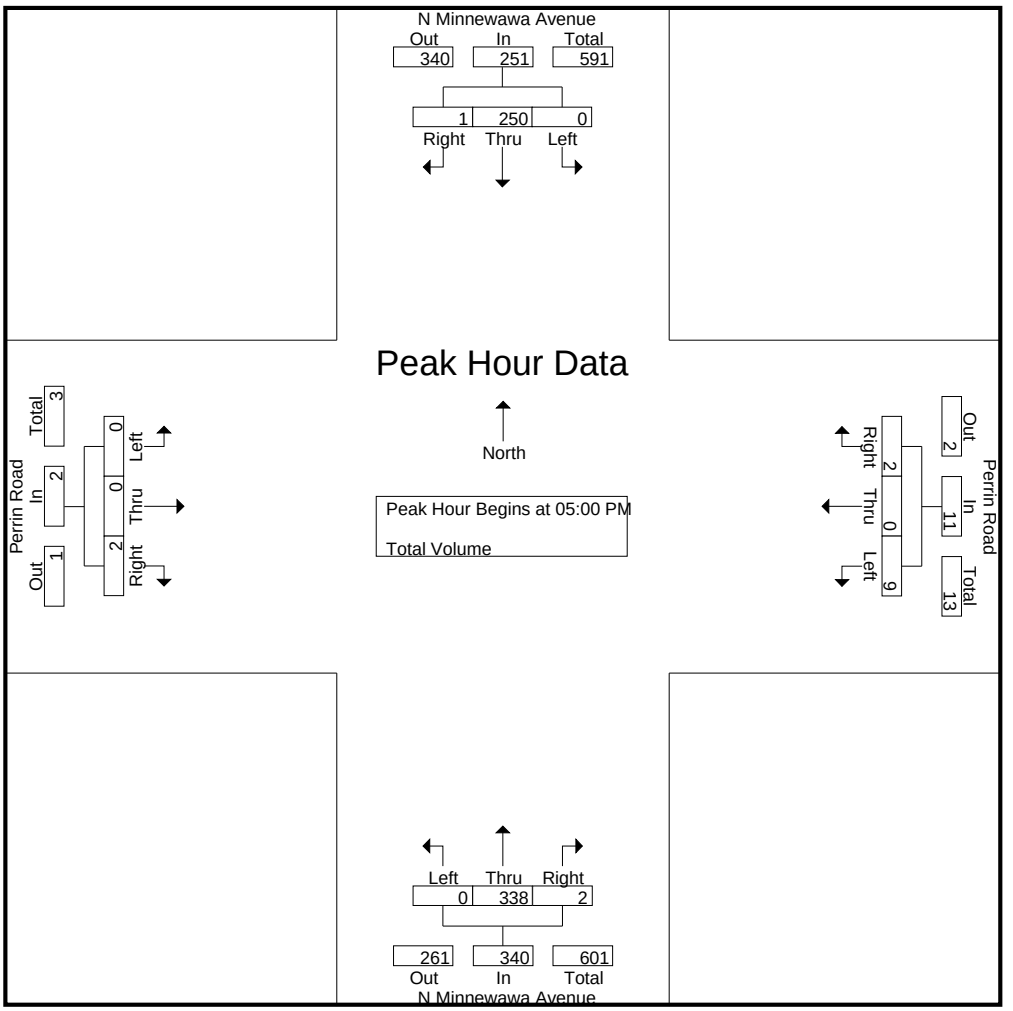
County of Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road
Weather: Clear

File Name : 05_CFO_Min_Per PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:45 PM				05:00 PM				04:00 PM			
+0 mins.	0	66	0	66	1	0	0	1	0	70	0	70	0	0	**1**	**1**
+15 mins.	0	65	0	65	2	0	0	2	0	83	0	83	0	0	0	0
+30 mins.	0	**70**	0	**70**	1	0	**2**	3	0	**94**	0	**94**	0	0	1	1
+45 mins.	0	67	0	67	**5**	0	0	**5**	0	91	**2**	93	0	0	0	0
Total Volume	0	268	0	268	9	0	2	11	0	338	2	340	0	0	2	2
% App. Total	0	100	0		81.8	0	18.2		0	99.4	0.6		0	0	100	
PHF	.000	.957	.000	.957	.450	.000	.250	.550	.000	.899	.250	.904	.000	.000	.500	.500

Location: Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road

Date: 5/23/2024
Day: Thursday

PEDESTRIANS

	North Leg N Minnewawa Avenue	East Leg Perrin Road	South Leg N Minnewawa Avenue	West Leg Perrin Road	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	1	0	0	1
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	1	1
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	0	1	0	1	2

	North Leg N Minnewawa Avenue	East Leg Perrin Road	South Leg N Minnewawa Avenue	West Leg Perrin Road	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	1	0	0	1
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	1	0	0	1

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Location: Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road

Date: 5/23/2024
Day: Thursday

BICYCLES

	Southbound N Minnewawa Avenue			Westbound Perrin Road			Northbound N Minnewawa Avenue			Eastbound Perrin Road			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	2	0	0	0	0	0	0	0	0	0	0	2

	Southbound N Minnewawa Avenue			Westbound Perrin Road			Northbound N Minnewawa Avenue			Eastbound Perrin Road			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	0	0

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	10	25	6	41	0	40	15	55	13	26	0	39	6	48	16	70	205
07:15 AM	13	28	5	46	5	49	22	76	30	31	1	62	8	58	19	85	269
07:30 AM	5	44	8	57	1	80	33	114	27	36	3	66	3	83	44	130	367
07:45 AM	46	51	13	110	6	69	28	103	29	28	5	62	8	96	31	135	410
Total	74	148	32	254	12	238	98	348	99	121	9	229	25	285	110	420	1251
08:00 AM	22	47	6	75	3	61	36	100	31	42	4	77	11	75	23	109	361
08:15 AM	18	51	7	76	4	55	40	99	33	46	6	85	12	64	30	106	366
08:30 AM	14	49	4	67	5	52	29	86	26	32	1	59	10	58	25	93	305
08:45 AM	19	26	2	47	6	37	12	55	14	28	1	43	6	55	11	72	217
Total	73	173	19	265	18	205	117	340	104	148	12	264	39	252	89	380	1249
Grand Total	147	321	51	519	30	443	215	688	203	269	21	493	64	537	199	800	2500
Apprch %	28.3	61.8	9.8		4.4	64.4	31.2		41.2	54.6	4.3		8	67.1	24.9		
Total %	5.9	12.8	2	20.8	1.2	17.7	8.6	27.5	8.1	10.8	0.8	19.7	2.6	21.5	8	32	
Passenger Vehicles	140	316	46	502	27	432	207	666	196	256	19	471	61	517	193	771	2410
% Passenger Vehicles	95.2	98.4	90.2	96.7	90	97.5	96.3	96.8	96.6	95.2	90.5	95.5	95.3	96.3	97	96.4	96.4
Large 2 Axle Vehicles	4	2	1	7	1	5	2	8	3	3	0	6	0	12	3	15	36
% Large 2 Axle Vehicles	2.7	0.6	2	1.3	3.3	1.1	0.9	1.2	1.5	1.1	0	1.2	0	2.2	1.5	1.9	1.4
3 Axle Vehicles	1	0	2	3	2	3	5	10	0	2	1	3	2	6	2	10	26
% 3 Axle Vehicles	0.7	0	3.9	0.6	6.7	0.7	2.3	1.5	0	0.7	4.8	0.6	3.1	1.1	1	1.2	1
4+ Axle Trucks	2	3	2	7	0	3	1	4	4	8	1	13	1	2	1	4	28
% 4+ Axle Trucks	1.4	0.9	3.9	1.3	0	0.7	0.5	0.6	2	3	4.8	2.6	1.6	0.4	0.5	0.5	1.1

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	5	44	8	57	1	**80**	33	**114**	27	36	3	66	3	83	**44**	130	367
07:45 AM	**46**	**51**	**13**	**110**	**6**	69	28	103	29	28	5	62	8	**96**	31	**135**	**410**
08:00 AM	22	47	6	75	3	61	36	100	31	42	4	77	11	75	23	109	361
08:15 AM	18	51	7	76	4	55	**40**	99	**33**	**46**	**6**	**85**	**12**	64	30	106	366
Total Volume	91	193	34	318	14	265	137	416	120	152	18	290	34	318	128	480	1504
% App. Total	28.6	60.7	10.7		3.4	63.7	32.9		41.4	52.4	6.2		7.1	66.2	26.7		
PHF	.495	.946	.654	.723	.583	.828	.856	.912	.909	.826	.750	.853	.708	.828	.727	.889	.917

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N/S: N Minnewawa Avenue
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File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
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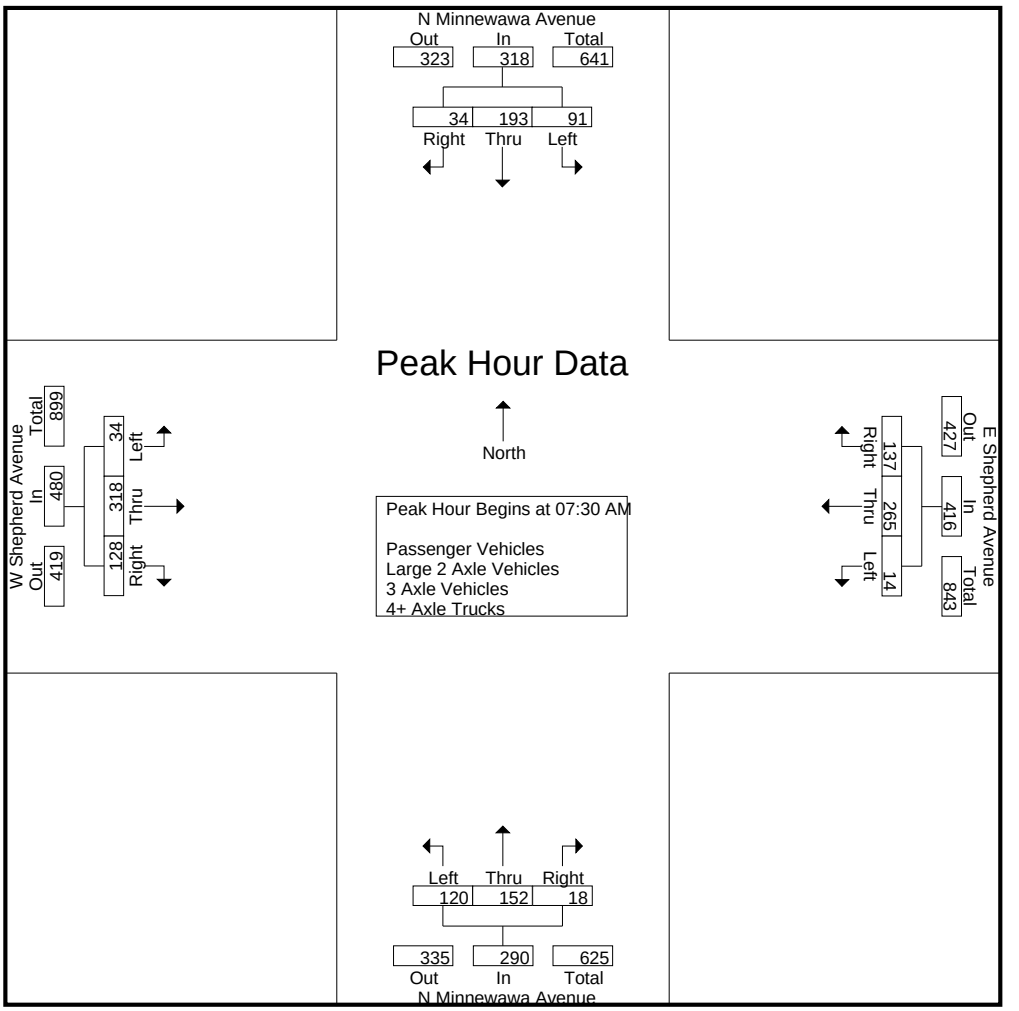

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	**46**	**51**	**13**	**110**	1	**80**	33	**114**	27	36	3	66	3	83	**44**	130
+15 mins.	22	47	6	75	**6**	69	28	103	29	28	5	62	8	**96**	31	**135**
+30 mins.	18	51	7	76	3	61	36	100	31	42	4	77	11	75	23	109
+45 mins.	14	49	4	67	4	55	**40**	99	**33**	**46**	**6**	**85**	**12**	64	30	106
Total Volume	100	198	30	328	14	265	137	416	120	152	18	290	34	318	128	480
% App. Total	30.5	60.4	9.1		3.4	63.7	32.9		41.4	52.4	6.2		7.1	66.2	26.7	
PHF	.543	.971	.577	.745	.583	.828	.856	.912	.909	.826	.750	.853	.708	.828	.727	.889

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Weather: Clear

File Name : 06_CVS_Min_Shep AM
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Groups Printed- Passenger Vehicles

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	9	24	4	37	0	40	14	54	12	26	0	38	6	48	14	68	197
07:15 AM	13	28	4	45	4	47	22	73	27	28	1	56	8	54	18	80	254
07:30 AM	5	43	8	56	1	76	33	110	27	35	3	65	2	80	44	126	357
07:45 AM	46	51	13	110	6	69	27	102	29	27	5	61	8	93	31	132	405
Total	73	146	29	248	11	232	96	339	95	116	9	220	24	275	107	406	1213
08:00 AM	21	46	6	73	2	58	36	96	30	39	3	72	10	72	22	104	345
08:15 AM	15	49	6	70	3	54	37	94	33	44	6	83	12	63	28	103	350
08:30 AM	13	49	3	65	5	51	27	83	25	32	0	57	10	54	25	89	294
08:45 AM	18	26	2	46	6	37	11	54	13	25	1	39	5	53	11	69	208
Total	67	170	17	254	16	200	111	327	101	140	10	251	37	242	86	365	1197
Grand Total	140	316	46	502	27	432	207	666	196	256	19	471	61	517	193	771	2410
Apprch %	27.9	62.9	9.2		4.1	64.9	31.1		41.6	54.4	4		7.9	67.1	25		
Total %	5.8	13.1	1.9	20.8	1.1	17.9	8.6	27.6	8.1	10.6	0.8	19.5	2.5	21.5	8	32	

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	5	43	8	56	1	**76**	33	**110**	27	35	3	65	2	80	**44**	126	357
07:45 AM	**46**	**51**	**13**	**110**	**6**	69	27	102	29	27	5	61	8	**93**	31	**132**	**405**
08:00 AM	21	46	6	73	2	58	36	96	30	39	3	72	10	72	22	104	345
08:15 AM	15	49	6	70	3	54	**37**	94	**33**	**44**	**6**	**83**	**12**	63	28	103	350
Total Volume	87	189	33	309	12	257	133	402	119	145	17	281	32	308	125	465	1457
% App. Total	28.2	61.2	10.7		3	63.9	33.1		42.3	51.6	6		6.9	66.2	26.9		
PHF	.473	.926	.635	.702	.500	.845	.899	.914	.902	.824	.708	.846	.667	.828	.710	.881	.899

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File Name : 06_CVS_Min_Shep AM
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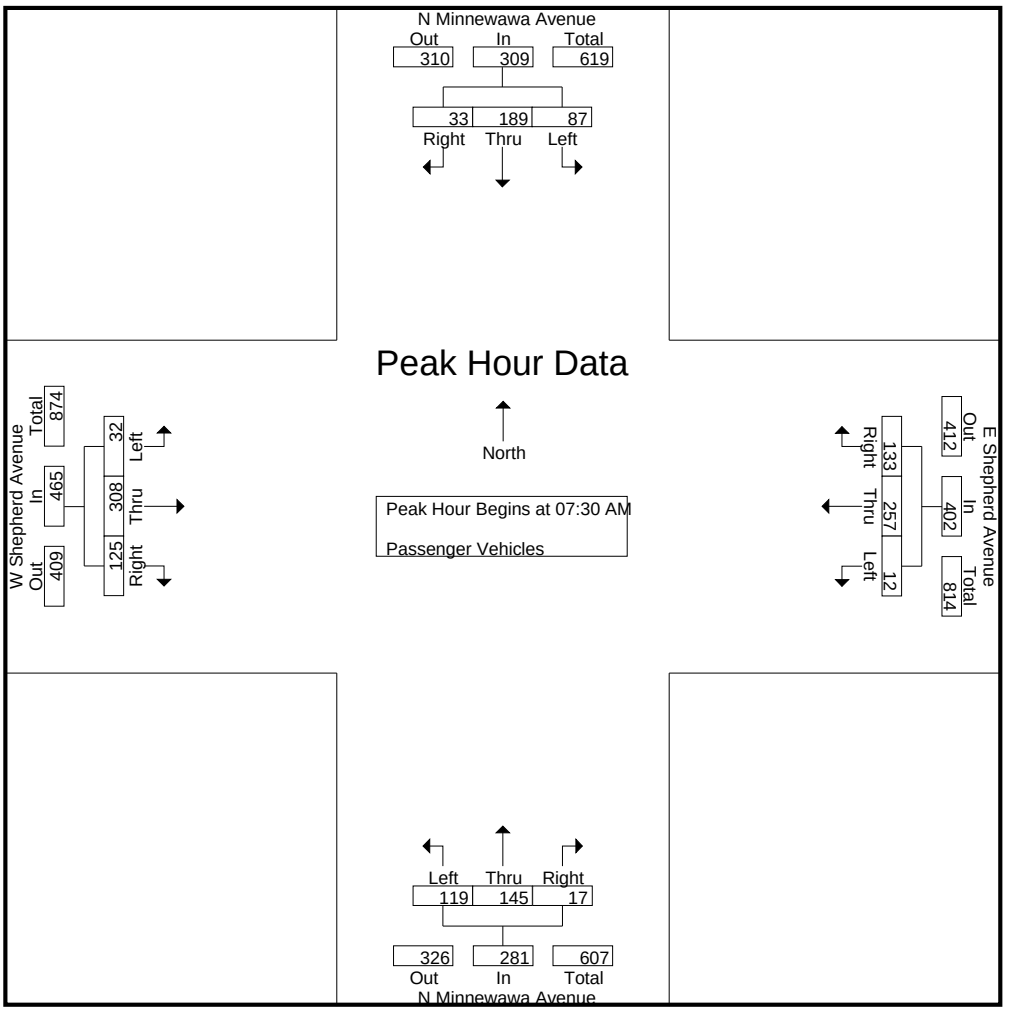

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	5	43	8	56	1	**76**	33	**110**	27	35	3	65	2	80	**44**	126
+15 mins.	**46**	**51**	**13**	**110**	**6**	69	27	102	29	27	5	61	8	**93**	31	**132**
+30 mins.	21	46	6	73	2	58	36	96	30	39	3	72	10	72	22	104
+45 mins.	15	49	6	70	3	54	**37**	94	**33**	**44**	**6**	**83**	**12**	63	28	103
Total Volume	87	189	33	309	12	257	133	402	119	145	17	281	32	308	125	465
% App. Total	28.2	61.2	10.7		3	63.9	33.1		42.3	51.6	6		6.9	66.2	26.9	
PHF	.473	.926	.635	.702	.500	.845	.899	.914	.902	.824	.708	.846	.667	.828	.710	.881

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N/S: N Minnewawa Avenue
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Weather: Clear

File Name : 06_CVS_Min_Shep AM
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Groups Printed- Large 2 Axle Vehicles

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
07:15 AM	0	0	0	0	0	1	0	1	2	1	0	3	0	2	0	2	6
07:30 AM	0	1	0	1	0	2	0	2	0	1	0	1	0	2	0	2	6
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
Total	0	1	0	1	0	3	0	3	3	2	0	5	0	6	0	6	15
08:00 AM	1	0	0	1	1	2	0	3	0	0	0	0	0	2	1	3	7
08:15 AM	3	1	0	4	0	0	1	1	0	0	0	0	0	1	2	3	8
08:30 AM	0	0	1	1	0	0	1	1	0	0	0	0	0	2	0	2	4
08:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	2
Total	4	1	1	6	1	2	2	5	0	1	0	1	0	6	3	9	21
Grand Total	4	2	1	7	1	5	2	8	3	3	0	6	0	12	3	15	36
Apprch %	57.1	28.6	14.3		12.5	62.5	25		50	50	0		0	80	20		
Total %	11.1	5.6	2.8	19.4	2.8	13.9	5.6	22.2	8.3	8.3	0	16.7	0	33.3	8.3	41.7	

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	**1**	0	1	0	**2**	0	2	0	**1**	0	**1**	0	**2**	0	2	6
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
08:00 AM	1	0	0	1	**1**	2	0	**3**	0	0	0	0	0	2	1	**3**	7
08:15 AM	**3**	1	0	**4**	0	0	**1**	1	0	0	0	0	0	1	**2**	3	**8**
Total Volume	4	2	0	6	1	4	1	6	0	1	0	1	0	7	3	10	23
% App. Total	66.7	33.3	0		16.7	66.7	16.7		0	100	0		0	70	30		
PHF	.333	.500	.000	.375	.250	.500	.250	.500	.000	.250	.000	.250	.000	.875	.375	.833	.719

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City of Clovis
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File Name : 06_CVS_Min_Shep AM
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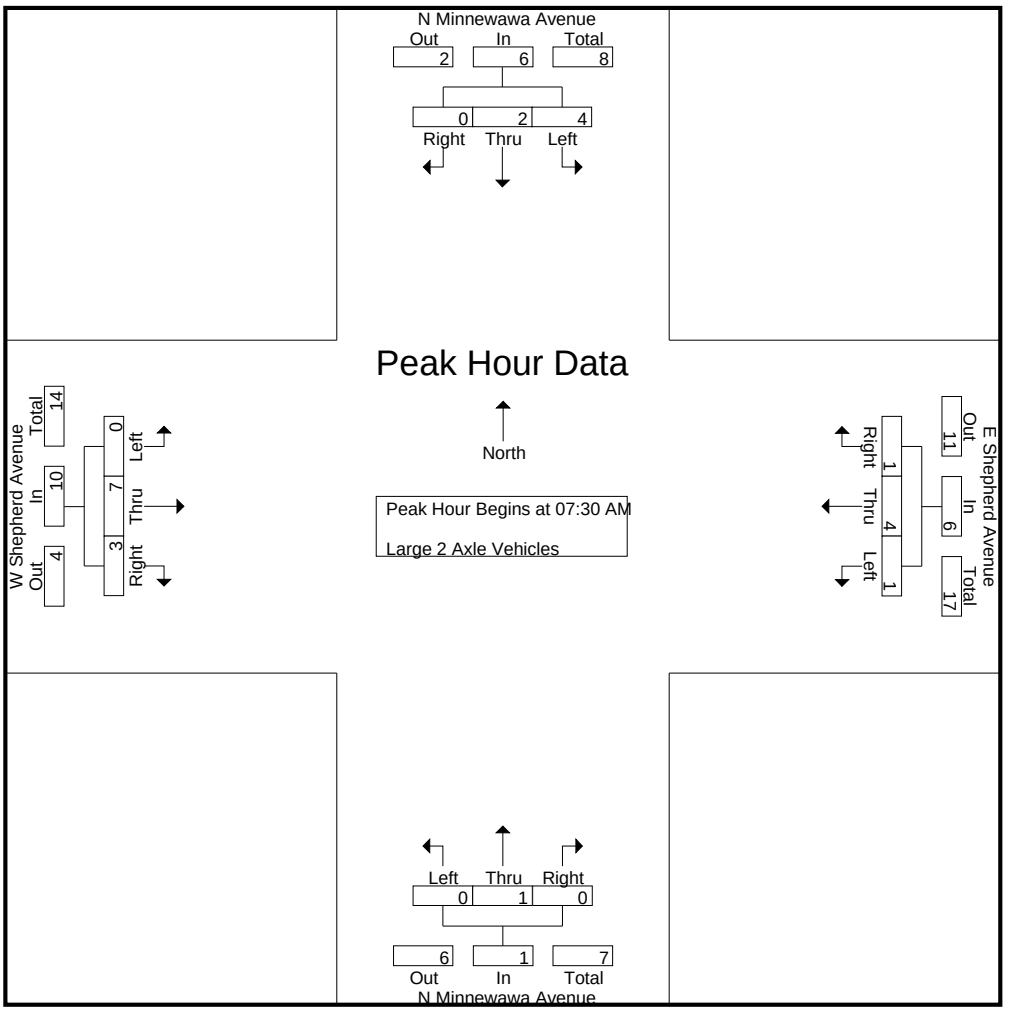

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	**1**	0	1	0	**2**	0	2	0	**1**	0	**1**	0	**2**	0	2
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
+30 mins.	1	0	0	1	**1**	2	0	**3**	0	0	0	0	0	2	1	**3**
+45 mins.	**3**	1	0	**4**	0	0	**1**	1	0	0	0	0	0	1	**2**	3
Total Volume	4	2	0	6	1	4	1	6	0	1	0	1	0	7	3	10
% App. Total	66.7	33.3	0		16.7	66.7	16.7		0	100	0		0	70	30	
PHF	.333	.500	.000	.375	.250	.500	.250	.500	.000	.250	.000	.250	.000	.875	.375	.833

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City of Clovis
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File Name : 06_CVS_Min_Shep AM
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Groups Printed- 3 Axle Vehicles

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
07:15 AM	0	0	1	1	1	0	0	1	0	1	0	1	0	2	1	3	6
07:30 AM	0	0	0	0	0	2	0	2	0	0	0	0	1	1	0	2	4
07:45 AM	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	2
Total	0	0	1	1	1	2	1	4	0	1	0	1	1	4	2	7	13
08:00 AM	0	0	0	0	0	0	0	0	0	1	1	2	1	1	0	2	4
08:15 AM	0	0	1	1	1	1	2	4	0	0	0	0	0	0	0	0	5
08:30 AM	1	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	2
08:45 AM	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	2
Total	1	0	1	2	1	1	4	6	0	1	1	2	1	2	0	3	13
Grand Total	1	0	2	3	2	3	5	10	0	2	1	3	2	6	2	10	26
Apprch %	33.3	0	66.7		20	30	50		0	66.7	33.3		20	60	20		
Total %	3.8	0	7.7	11.5	7.7	11.5	19.2	38.5	0	7.7	3.8	11.5	7.7	23.1	7.7	38.5	

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	0	**2**	0	2	0	0	0	0	**1**	**1**	0	**2**	4
07:45 AM	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	2
08:00 AM	0	0	0	0	0	0	0	0	0	**1**	**1**	**2**	1	1	0	2	4
08:15 AM	0	0	**1**	**1**	**1**	1	**2**	**4**	0	0	0	0	0	0	0	0	**5**
Total Volume	0	0	1	1	1	3	3	7	0	1	1	2	2	3	0	5	15
% App. Total	0	0	100		14.3	42.9	42.9		0	50	50		40	60	0		
PHF	.000	.000	.250	.250	.250	.375	.375	.438	.000	.250	.250	.250	.500	.750	.000	.625	.750

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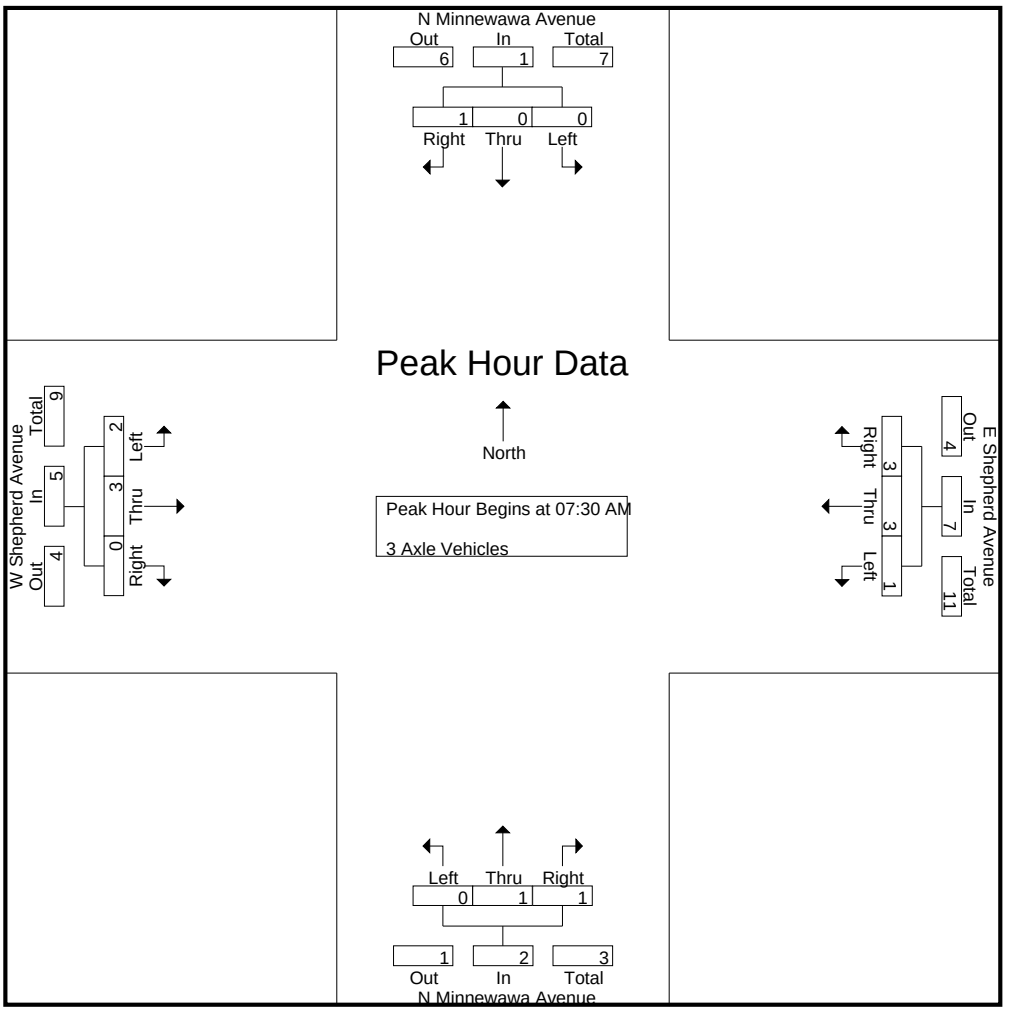

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	0	0	0	**2**	0	2	0	0	0	0	**1**	**1**	0	**2**
+15 mins.	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1
+30 mins.	0	0	0	0	0	0	0	0	0	**1**	**1**	**2**	1	1	0	2
+45 mins.	0	0	**1**	**1**	**1**	1	**2**	**4**	0	0	0	0	0	0	0	0
Total Volume	0	0	1	1	1	3	3	7	0	1	1	2	2	3	0	5
% App. Total	0	0	100		14.3	42.9	42.9		0	50	50		40	60	0	
PHF	.000	.000	.250	.250	.250	.375	.375	.438	.000	.250	.250	.250	.500	.750	.000	.625

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
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Groups Printed- 4+ Axle Trucks

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	1	1	2	4	0	0	1	1	0	0	0	0	0	0	1	1	6
07:15 AM	0	0	0	0	0	1	0	1	1	1	0	2	0	0	0	0	3
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
Total	1	1	2	4	0	1	1	2	1	2	0	3	0	0	1	1	10
08:00 AM	0	1	0	1	0	1	0	1	1	2	0	3	0	0	0	0	5
08:15 AM	0	1	0	1	0	0	0	0	0	2	0	2	0	0	0	0	3
08:30 AM	0	0	0	0	0	1	0	1	1	0	1	2	0	2	0	2	5
08:45 AM	1	0	0	1	0	0	0	0	1	2	0	3	1	0	0	1	5
Total	1	2	0	3	0	2	0	2	3	6	1	10	1	2	0	3	18
Grand Total	2	3	2	7	0	3	1	4	4	8	1	13	1	2	1	4	28
Apprch %	28.6	42.9	28.6		0	75	25		30.8	61.5	7.7		25	50	25		
Total %	7.1	10.7	7.1	25	0	10.7	3.6	14.3	14.3	28.6	3.6	46.4	3.6	7.1	3.6	14.3	

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
08:00 AM	0	**1**	0	**1**	0	**1**	0	**1**	**1**	**2**	0	**3**	0	0	0	0	**5**
08:15 AM	0	1	0	1	0	0	0	0	0	2	0	2	0	0	0	0	3
Total Volume	0	2	0	2	0	1	0	1	1	5	0	6	0	0	0	0	9
% App. Total	0	100	0		0	100	0		16.7	83.3	0		0	0	0		
PHF	.000	.500	.000	.500	.000	.250	.000	.250	.250	.625	.000	.500	.000	.000	.000	.000	.450

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City of Clovis
N/S: N Minnewawa Avenue
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File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
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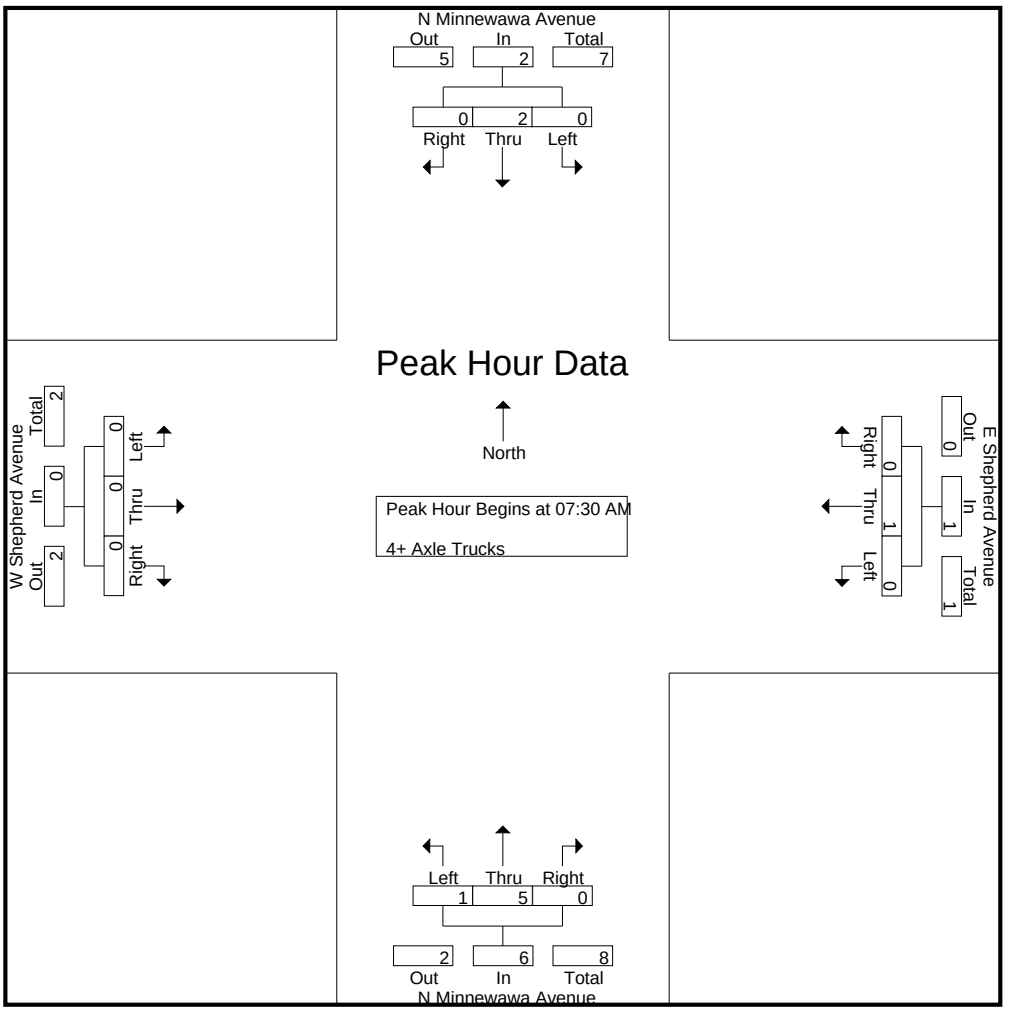

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
+30 mins.	0	**1**	0	**1**	0	**1**	0	**1**	**1**	**2**	0	**3**	0	0	0	0
+45 mins.	0	1	0	1	0	0	0	0	0	2	0	2	0	0	0	0
Total Volume	0	2	0	2	0	1	0	1	1	5	0	6	0	0	0	0
% App. Total	0	100	0		0	100	0		16.7	83.3	0		0	0	0	
PHF	.000	.500	.000	.500	.000	.250	.000	.250	.250	.625	.000	.500	.000	.000	.000	.000

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	16	38	5	59	1	61	31	93	20	43	4	67	9	72	22	103	322
04:15 PM	14	44	6	64	0	50	25	75	29	38	5	72	7	85	23	115	326
04:30 PM	17	34	6	57	2	63	28	93	34	34	5	73	9	83	31	123	346
04:45 PM	18	45	8	71	3	56	21	80	33	45	5	83	14	53	19	86	320
Total	65	161	25	251	6	230	105	341	116	160	19	295	39	293	95	427	1314
05:00 PM	13	45	9	67	1	63	19	83	33	35	7	75	11	70	18	99	324
05:15 PM	10	46	13	69	2	67	22	91	35	51	6	92	12	72	31	115	367
05:30 PM	10	43	6	59	1	57	22	80	34	60	7	101	11	79	33	123	363
05:45 PM	15	35	8	58	2	53	25	80	27	59	4	90	10	74	29	113	341
Total	48	169	36	253	6	240	88	334	129	205	24	358	44	295	111	450	1395
Grand Total	113	330	61	504	12	470	193	675	245	365	43	653	83	588	206	877	2709
Apprch %	22.4	65.5	12.1		1.8	69.6	28.6		37.5	55.9	6.6		9.5	67	23.5		
Total %	4.2	12.2	2.3	18.6	0.4	17.3	7.1	24.9	9	13.5	1.6	24.1	3.1	21.7	7.6	32.4	
Passenger Vehicles	108	317	59	484	11	469	189	669	240	355	41	636	83	581	200	864	2653
% Passenger Vehicles	95.6	96.1	96.7	96	91.7	99.8	97.9	99.1	98	97.3	95.3	97.4	100	98.8	97.1	98.5	97.9
Large 2 Axle Vehicles	0	2	1	3	0	0	2	2	1	4	0	5	0	5	2	7	17
% Large 2 Axle Vehicles	0	0.6	1.6	0.6	0	0	1	0.3	0.4	1.1	0	0.8	0	0.9	1	0.8	0.6
3 Axle Vehicles	2	5	0	7	1	0	2	3	3	2	1	6	0	2	2	4	20
% 3 Axle Vehicles	1.8	1.5	0	1.4	8.3	0	1	0.4	1.2	0.5	2.3	0.9	0	0.3	1	0.5	0.7
4+ Axle Trucks	3	6	1	10	0	1	0	1	1	4	1	6	0	0	2	2	19
% 4+ Axle Trucks	2.7	1.8	1.6	2	0	0.2	0	0.1	0.4	1.1	2.3	0.9	0	0	1	0.2	0.7

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	13	45	9	67	1	63	19	83	33	35	**7**	75	11	70	18	99	324
05:15 PM	10	**46**	**13**	**69**	**2**	**67**	22	**91**	**35**	51	6	92	**12**	72	31	115	**367**
05:30 PM	10	43	6	59	1	57	22	80	34	**60**	7	**101**	11	**79**	**33**	**123**	363
05:45 PM	**15**	35	8	58	2	53	**25**	80	27	59	4	90	10	74	29	113	341
Total Volume	48	169	36	253	6	240	88	334	129	205	24	358	44	295	111	450	1395
% App. Total	19	66.8	14.2		1.8	71.9	26.3		36	57.3	6.7		9.8	65.6	24.7		
PHF	.800	.918	.692	.917	.750	.896	.880	.918	.921	.854	.857	.886	.917	.934	.841	.915	.950

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
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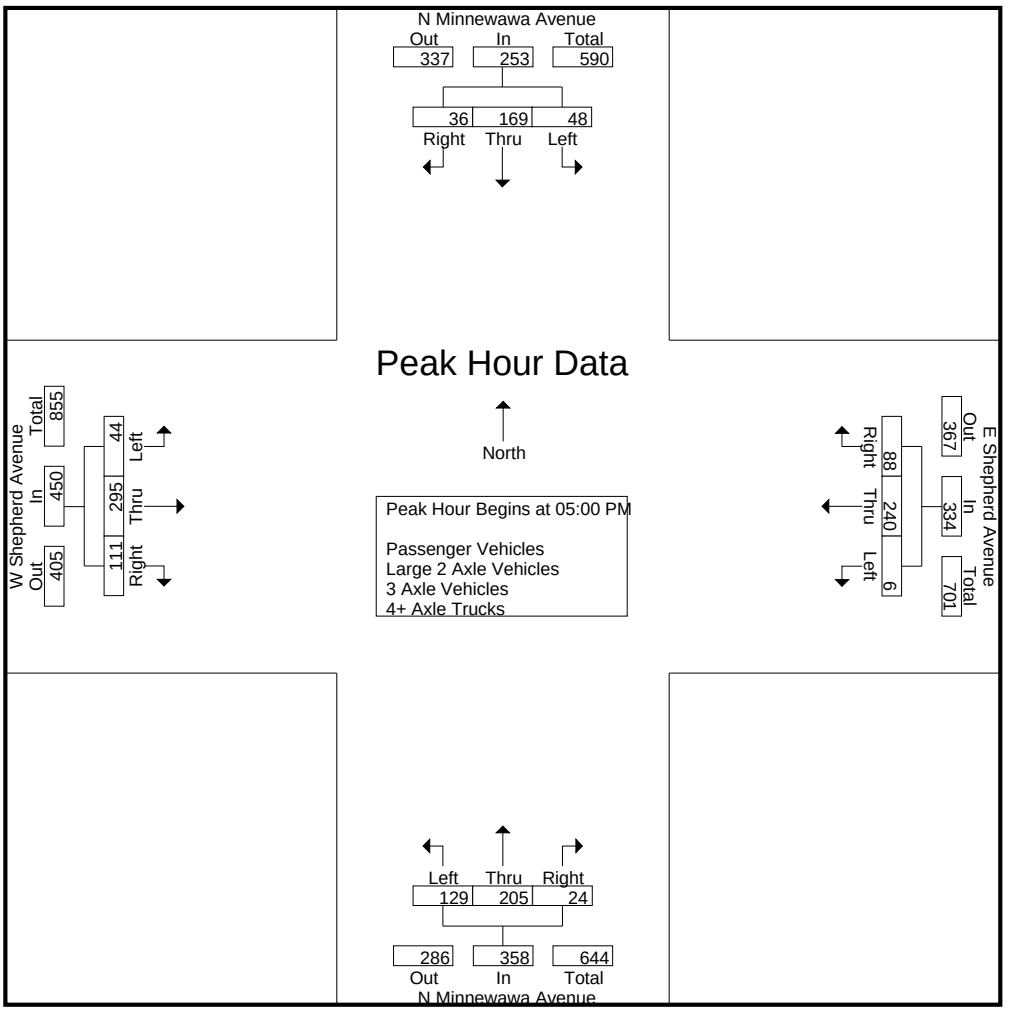

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:30 PM				05:00 PM				05:00 PM			
+0 mins.	**18**	45	8	**71**	2	63	**28**	**93**	33	35	**7**	75	11	70	18	99
+15 mins.	13	45	9	67	**3**	56	21	80	**35**	51	6	92	**12**	72	31	115
+30 mins.	10	**46**	**13**	69	1	63	19	83	34	**60**	7	**101**	11	**79**	**33**	**123**
+45 mins.	10	43	6	59	2	**67**	22	91	27	59	4	90	10	74	29	113
Total Volume	51	179	36	266	8	249	90	347	129	205	24	358	44	295	111	450
% App. Total	19.2	67.3	13.5		2.3	71.8	25.9		36	57.3	6.7		9.8	65.6	24.7	
PHF	.708	.973	.692	.937	.667	.929	.804	.933	.921	.854	.857	.886	.917	.934	.841	.915

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
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Groups Printed- Passenger Vehicles

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	15	35	5	55	1	61	29	91	20	40	4	64	9	69	22	100	310
04:15 PM	14	40	4	58	0	50	25	75	29	37	5	71	7	83	21	111	315
04:30 PM	16	34	6	56	2	63	27	92	33	33	4	70	9	82	28	119	337
04:45 PM	17	44	8	69	2	56	20	78	32	44	5	81	14	52	19	85	313
Total	62	153	23	238	5	230	101	336	114	154	18	286	39	286	90	415	1275
05:00 PM	13	44	9	66	1	63	19	83	32	34	7	73	11	70	18	99	321
05:15 PM	10	45	13	68	2	66	22	90	35	51	6	92	12	72	31	115	365
05:30 PM	8	42	6	56	1	57	22	80	32	57	6	95	11	79	32	122	353
05:45 PM	15	33	8	56	2	53	25	80	27	59	4	90	10	74	29	113	339
Total	46	164	36	246	6	239	88	333	126	201	23	350	44	295	110	449	1378
Grand Total	108	317	59	484	11	469	189	669	240	355	41	636	83	581	200	864	2653
Apprch %	22.3	65.5	12.2		1.6	70.1	28.3		37.7	55.8	6.4		9.6	67.2	23.1		
Total %	4.1	11.9	2.2	18.2	0.4	17.7	7.1	25.2	9	13.4	1.5	24	3.1	21.9	7.5	32.6	

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	13	44	9	66	1	63	19	83	32	34	**7**	73	11	70	18	99	321
05:15 PM	10	**45**	**13**	**68**	**2**	**66**	22	**90**	**35**	51	6	92	**12**	72	31	115	**365**
05:30 PM	8	42	6	56	1	57	22	80	32	57	6	**95**	11	**79**	**32**	**122**	353
05:45 PM	**15**	33	8	56	2	53	**25**	80	27	**59**	4	90	10	74	29	113	339
Total Volume	46	164	36	246	6	239	88	333	126	201	23	350	44	295	110	449	1378
% App. Total	18.7	66.7	14.6		1.8	71.8	26.4		36	57.4	6.6		9.8	65.7	24.5		
PHF	.767	.911	.692	.904	.750	.905	.880	.925	.900	.852	.821	.921	.917	.934	.859	.920	.944

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File Name : 06_CVS_Min_Shep PM
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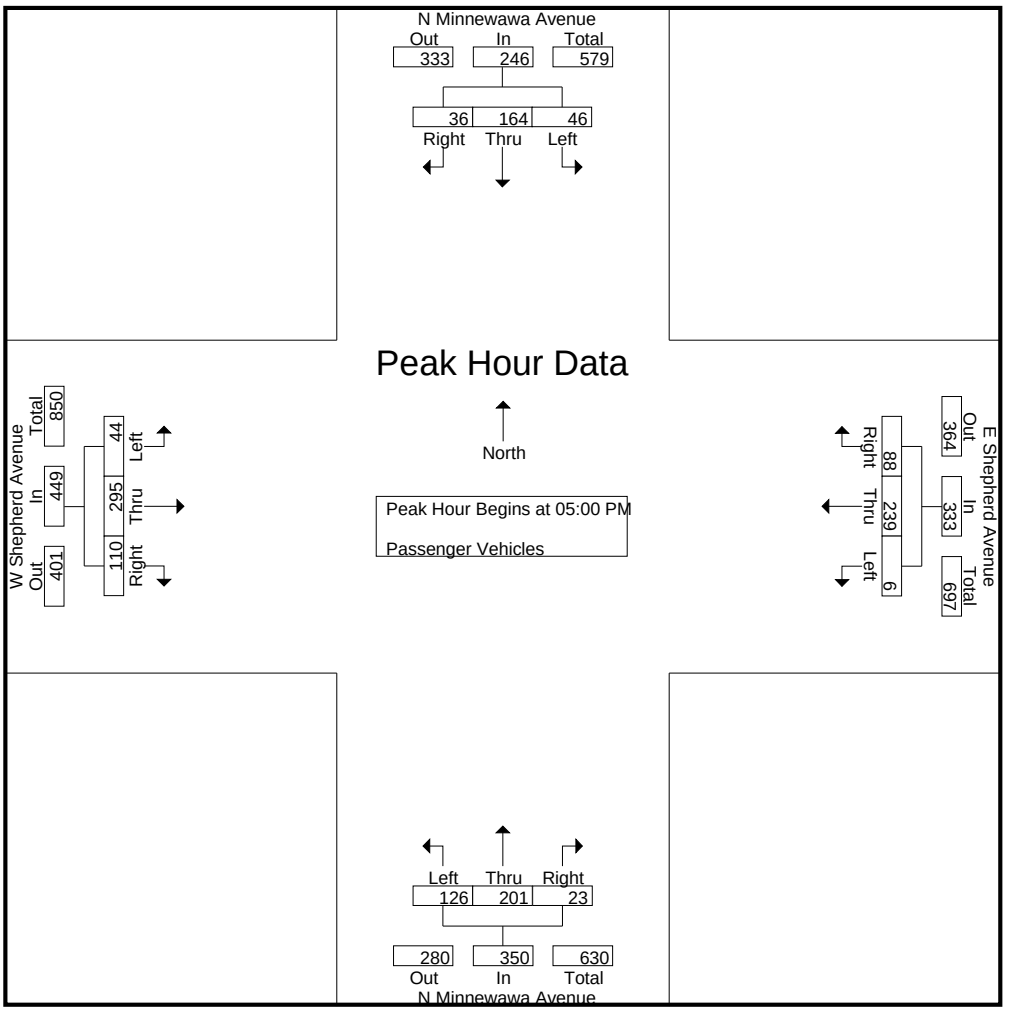

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	13	44	9	66	1	63	19	83	32	34	**7**	73	11	70	18	99
+15 mins.	10	**45**	**13**	**68**	**2**	**66**	22	**90**	**35**	51	6	92	**12**	72	31	115
+30 mins.	8	42	6	56	1	57	22	80	32	57	6	**95**	11	**79**	**32**	**122**
+45 mins.	**15**	33	8	56	2	53	**25**	80	27	**59**	4	90	10	74	29	113
Total Volume	46	164	36	246	6	239	88	333	126	201	23	350	44	295	110	449
% App. Total	18.7	66.7	14.6		1.8	71.8	26.4		36	57.4	6.6		9.8	65.7	24.5	
PHF	.767	.911	.692	.904	.750	.905	.880	.925	.900	.852	.821	.921	.917	.934	.859	.920

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City of Clovis
N/S: N Minnewawa Avenue
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Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
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Groups Printed- Large 2 Axle Vehicles

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	1	1	0	1	0	1	0	2	0	2	4
04:15 PM	0	0	1	1	0	0	0	0	0	0	0	0	0	2	1	3	4
04:30 PM	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	0	0	1	1	0	0	2	2	0	1	0	1	0	5	1	6	10
05:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0	0	1	3	0	4	0	0	1	1	5
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	0	2	0	0	0	0	1	3	0	4	0	0	1	1	7
Grand Total	0	2	1	3	0	0	2	2	1	4	0	5	0	5	2	7	17
Apprch %	0	66.7	33.3		0	0	100		20	80	0		0	71.4	28.6		
Total %	0	11.8	5.9	17.6	0	0	11.8	11.8	5.9	23.5	0	29.4	0	29.4	11.8	41.2	

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	1
05:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0	0	**1**	**3**	0	**4**	0	0	**1**	**1**	**5**
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	2	0	2	0	0	0	0	1	3	0	4	0	0	1	1	7
% App. Total	0	100	0		0	0	0		25	75	0		0	0	100		
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.250	.250	.000	.250	.000	.000	.250	.250	.350

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File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
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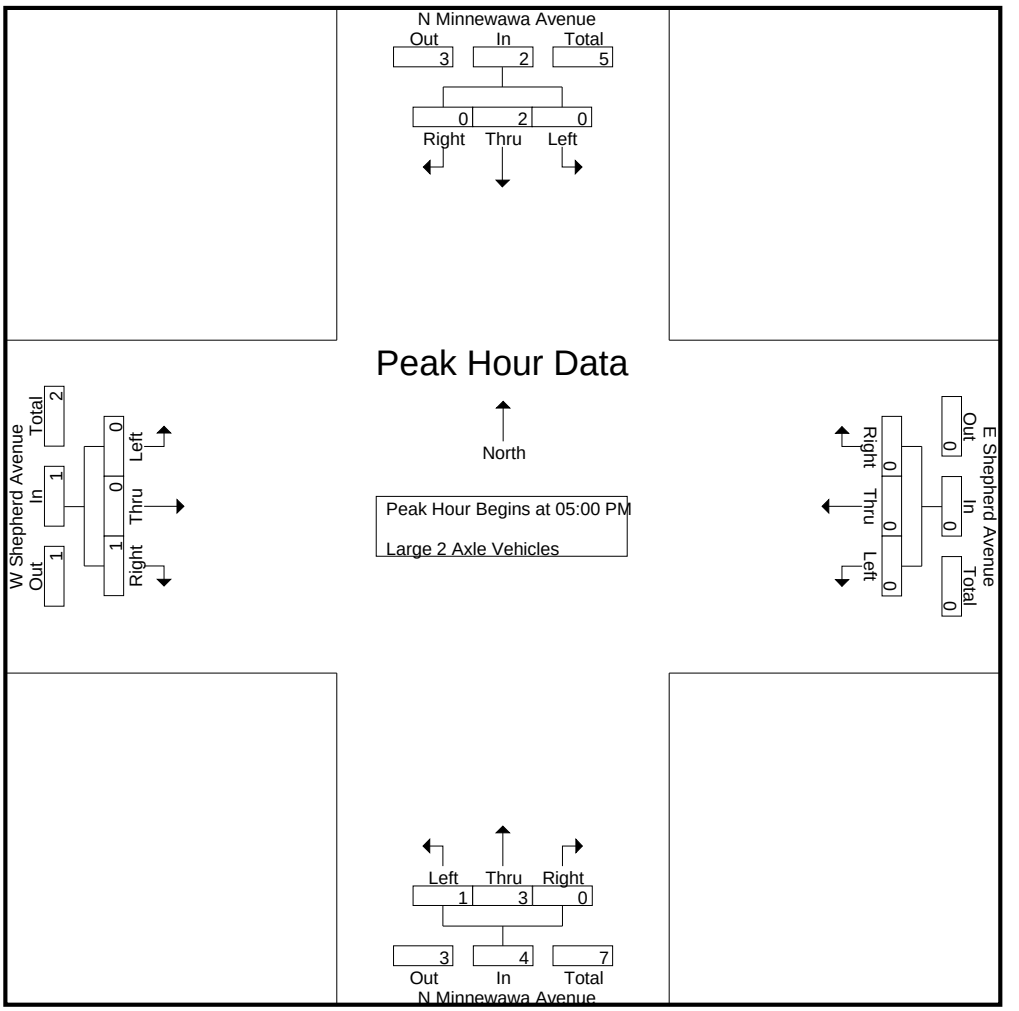

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	**1**	**3**	0	**4**	0	0	**1**	**1**
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	2	0	2	0	0	0	0	1	3	0	4	0	0	1	1
% App. Total	0	100	0		0	0	0		25	75	0		0	0	100	
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.250	.250	.000	.250	.000	.000	.250	.250

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City of Clovis
N/S: N Minnewawa Avenue
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Groups Printed- 3 Axle Vehicles

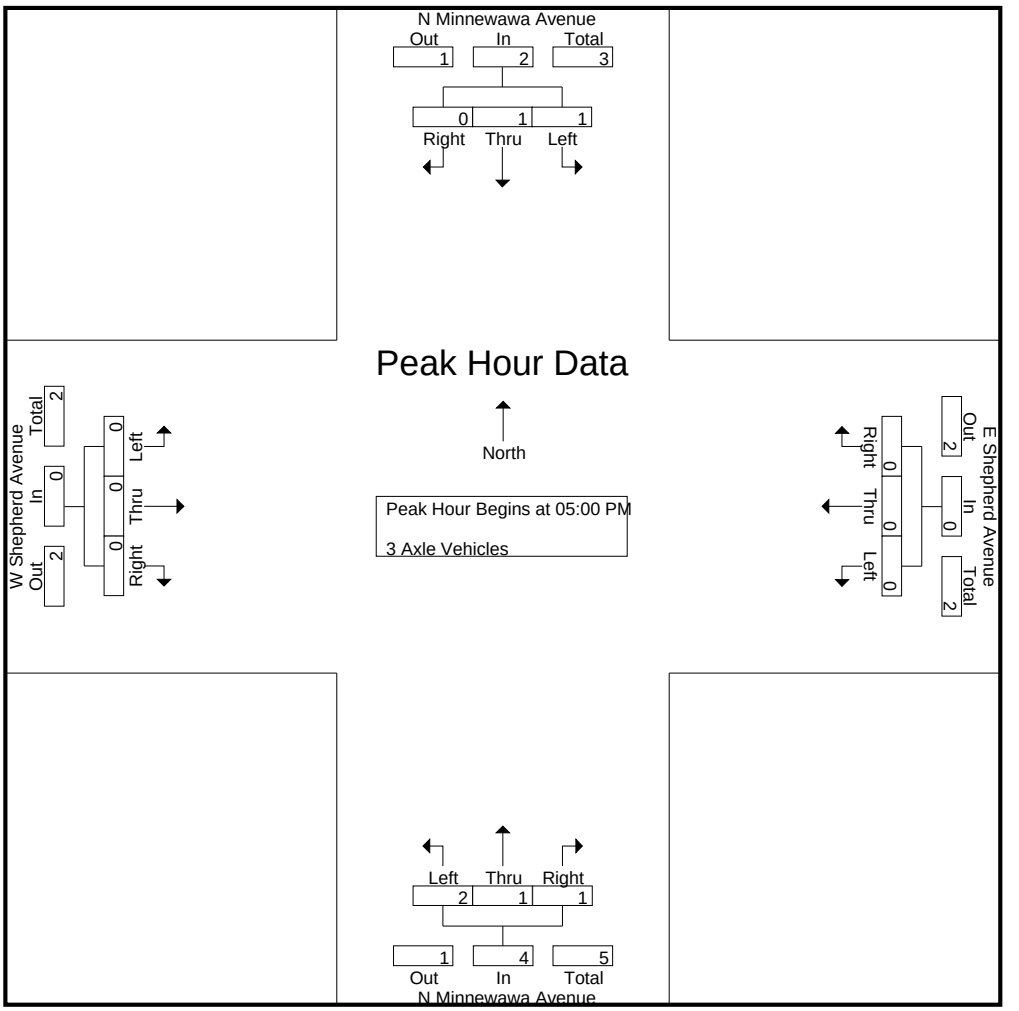
	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	2	0	2	0	0	1	1	0	1	0	1	0	1	0	1	5
04:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
04:30 PM	1	0	0	1	0	0	0	0	1	0	0	1	0	1	2	3	5
04:45 PM	0	0	0	0	1	0	1	2	0	0	0	0	0	0	0	0	2
Total	1	4	0	5	1	0	2	3	1	1	0	2	0	2	2	4	14
05:00 PM	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	2
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	1	1	0	2	0	0	0	0	1	0	1	2	0	0	0	0	4
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	1	0	2	0	0	0	0	2	1	1	4	0	0	0	0	6
Grand Total	2	5	0	7	1	0	2	3	3	2	1	6	0	2	2	4	20
Apprch %	28.6	71.4	0		33.3	0	66.7		50	33.3	16.7		0	50	50		
Total %	10	25	0	35	5	0	10	15	15	10	5	30	0	10	10	20	

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	0	0	0	**1**	**1**	0	**2**	0	0	0	0	2
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	**1**	**1**	0	**2**	0	0	0	0	1	0	**1**	2	0	0	0	0	**4**
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	1	0	2	0	0	0	0	2	1	1	4	0	0	0	0	6
% App. Total	50	50	0		0	0	0		50	25	25		0	0	0		
PHF	.250	.250	.000	.250	.000	.000	.000	.000	.500	.250	.250	.500	.000	.000	.000	.000	.375

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	**1**	**1**	0	**2**	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	**1**	**1**	0	**2**	0	0	0	0	1	0	**1**	2	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	1	0	2	0	0	0	0	2	1	1	4	0	0	0	0
% App. Total	50	50	0		0	0	0		50	25	25		0	0	0	
PHF	.250	.250	.000	.250	.000	.000	.000	.000	.500	.250	.250	.500	.000	.000	.000	.000

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	1	1	0	2	0	0	0	0	0	1	0	1	0	0	0	0	3
04:15 PM	0	2	1	3	0	0	0	0	0	1	0	1	0	0	1	1	5
04:30 PM	0	0	0	0	0	0	0	0	0	1	1	2	0	0	1	1	3
04:45 PM	1	1	0	2	0	0	0	0	1	1	0	2	0	0	0	0	4
Total	2	4	1	7	0	0	0	0	1	4	1	6	0	0	2	2	15
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
05:30 PM	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:45 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	1	2	0	3	0	1	0	1	0	0	0	0	0	0	0	0	4
Grand Total	3	6	1	10	0	1	0	1	1	4	1	6	0	0	2	2	19
Apprch %	30	60	10		0	100	0		16.7	66.7	16.7		0	0	100		
Total %	15.8	31.6	5.3	52.6	0	5.3	0	5.3	5.3	21.1	5.3	31.6	0	0	10.5	10.5	

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	**1**	0	**1**	0	0	0	0	0	0	0	0	1
05:30 PM	**1**	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:45 PM	0	**2**	0	**2**	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Total Volume	1	2	0	3	0	1	0	1	0	0	0	0	0	0	0	0	4
% App. Total	33.3	66.7	0		0	100	0		0	0	0		0	0	0		
PHF	.250	.250	.000	.375	.000	.250	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000	.500

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City of Clovis
N/S: N Minnewawa Avenue
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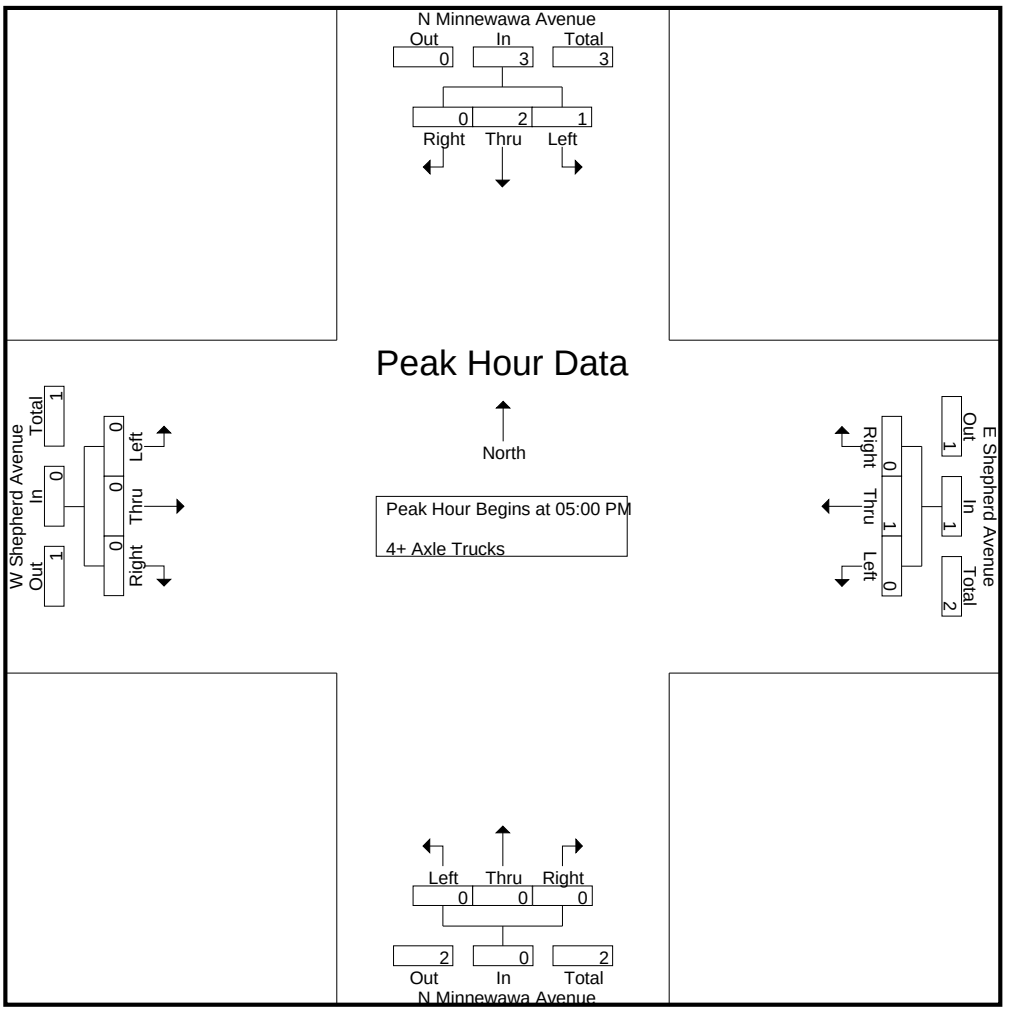
File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	**1**	0	**1**	0	0	0	0	0	0	0	0
+30 mins.	**1**	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	**2**	0	**2**	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	2	0	3	0	1	0	1	0	0	0	0	0	0	0	0
% App. Total	33.3	66.7	0		0	100	0		0	0	0		0	0	0	
PHF	.250	.250	.000	.375	.000	.250	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000

Location: Fresno
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue

Date: 5/23/2024
Day: Thursday

PEDESTRIANS

	North Leg N Minnewawa Avenue	East Leg Shepherd Avenue	South Leg N Minnewawa Avenue	West Leg Shepherd Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	1	0	1
7:45 AM	0	0	1	0	1
8:00 AM	0	0	0	0	0
8:15 AM	1	0	1	0	2
8:30 AM	0	0	0	0	0
8:45 AM	0	0	1	0	1
TOTAL VOLUMES:	1	0	4	0	5

	North Leg N Minnewawa Avenue	East Leg Shepherd Avenue	South Leg N Minnewawa Avenue	West Leg Shepherd Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	2	0	2
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	0	2	0	2

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951-268-6268

Location: Fresno
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue

Date: 5/23/2024
Day: Thursday

BICYCLES

	Southbound N Minnewawa Avenue			Westbound Shepherd Avenue			Northbound N Minnewawa Avenue			Eastbound Shepherd Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	1	0	0	0	0	0	1	0	2
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	1	1
8:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	2
TOTAL VOLUMES:	0	1	0	0	1	0	0	0	1	0	1	2	6

	Southbound N Minnewawa Avenue			Westbound Shepherd Avenue			Northbound N Minnewawa Avenue			Eastbound Shepherd Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	0	0

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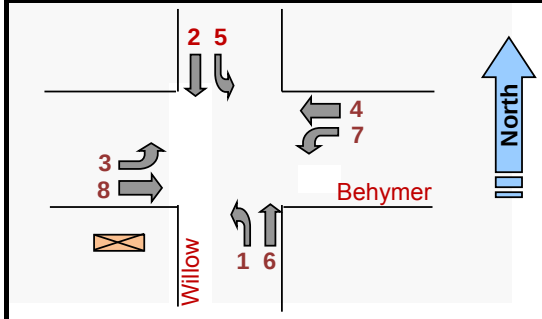
Movement	NL	ST	EL	WT	SL	NT	WL	ET		
Times [1.1.1]	1	2	3	4	5	6	7	8	9	10
Min Green	8	8	8	8	8	8	8	8		0
Gap, Ext	2	5.8	2	5.1	2	5.8	2	3.5		0
Max 1	20	45	20	30	20	45	20	30		0
Max 2	12	35	12	20	12	35	12	20		0
Yel Clearance	4.3	4.7	5.2	5.5	4.3	4.7	3.6	5.5		0
Red Clearance	1	1	1	1	1	1	1	1		0
Walk	0	5	0	5		5		5		0
Ped Clearance	0	32	0	38		30		36		0
Red Revert	2	2	2	2	2	2	2	2		0
Add Initial	0		0			0		0		0
Max Initial	0		0			0		0		0
Time B4 Reduct	0	8	0	8		8		8		0
Cars B4 Reduct	0		0			0		0		0
Time To Reduce	0	25	0	15		25		15		0
Reduce By	0		0			0		0		0
Min Gap	2	2	2	2	2	2	2	2		0
DyMaxLim	0		0			0		0		0
Max Step	0		0			0		0		0
Options [1.1.2]	1	2	3	4	5	6	7	8	9	10
Enable	X	X	X	X	X	X	X	X		
Min Recall										
Max Recall										
Ped Recall										
Soft Recall		X				X				
Lock Calls										
Auto Flash Entry										
Auto Flash Exit										
Dual Entry		X		X		X		X		
Enable Simul Gap										
Gaurantee Passage										
Rest In Walk										
Conditonal Service										
Non-Actuated 1										
Non-Actuated 2										
Add Init Calc										



Phase Options+ [1.1.3]

Options+	1	2	3	4	5	6	7	8	9	10
Reservice										
PedClr Thru Yel										
SkipRed-NoCall										
Red Rest										
Max II										
*Max III										
Max Inhibit										
Ped Delay										
Red Rest on Gap										
Conflicting Phase	0	0	0	0	0	0	0	0	0	0
Grn/Ped Delay										
Omit Yel, Yel P	0	0	0	0	0	0	0	0	0	0
Ped Out/Olp Ped										
StartYel, Next P	0	0	0	0	0	0	0	0	0	0
*StartupVehCall	1	2	3	4	5	6	7	8		
*StartupPedCall										

Phase Concurrency [1.1.4]

Phase	Ring	StartUp	Concurrent Phases							
1	1	RED	5	6	0	0				
2	1	GREEN	5	6	0	0				
3	1	RED	7	8	0	0				
4	1	RED	7	8	0	0				
5	2	RED	1	2	0	0				
6	2	GREEN	1	2	0	0				
7	2	RED	3	4	0	0				
8	2	RED	3	4	0	0				
9	0	RED	0	0	0	0				
10	0	RED	0	0	0	0				
11	0	RED	0	0	0	0				
12	0	RED	0	0	0	0				

Comm Ports [6.6]

Channel	Port	Echo	Mode
Async 1	SP1	NONE	0
Async 2	SP2	NONE	0
Async 3	SP8	NONE	0
Async 4	OFF	NONE	0
Sync 1	SP5S		
Sync 2	OFF		
TS2CVM	NONE		
Opticom	NONE		
GPS	NONE		

Unit Params [1.2.1]

Screen Size	8	Metric	OFF
Startup Flash	0	Red Revert	2
MCE Timeout	0	Auto Ped Clear	OFF
Loc Flsh Start	RSt	Display Time	60
Yellow < 3"	OFF	Tone Disable	ON
Allow Skip Yel	OFF	AudioPedTime	0
Start Red Tm	6	Phase Mode	STD8
Startup Calls	UseProg	CNA FreeTime	0
TOD Dimming	OFF	Diamond Mode	4Ph
ST over Prmpt	OFF	Free Ring Seq	1
Feature Profile	1	IO Mode	USER
Mx Seek TrkTm	0	Max Cyc Timer	0
Mx Seek Dwell	0	CycFlt Actn	ALARM
Prmpt/Ext Coor	EXT	Clrnc Decide	OFF
Aux Switch	STOPTM	LPAlt Srs	3-6
*InhFYA Red St	OFF	Security Delay	0
RingA1go	0		

* - 76.12B or newer

Times+ [1.1.7]

	1	2	3	4	5	6	7	8
Walk2	0	0	0	0	0	0	0	0
BikeClr	0	0	0	0	0	0	0	0
GrnFlash	0	0	0	0	0	0	0	0
SfClrMn	0	0	0	0	0	0	0	0
SfClrNoFlsh	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
NoPed Reserv								

Comm [6.2]

Port	Baud Rate	FCM
1	38400	6
2	9600	6
3	9600	6
4	9600	6

Comm [6.5] — Host IPs

IP Address:	10	53	26	131	ATMS			
Mask:	255	255	255	0	10	50	10	22
Gateway:	10	53	26	1	SG			
Port #:	5126				0	0	0	0

City of FRESNO

Phase Seq. (2 ring) Chart [1.2.4]

Seq #	Ring	Phases					
1	1	1	2	3	4	0	0
	2	5	6	7	8	0	0
2	1	1	2	3	4	0	0
	2	6	5	7	8	0	0
3	1	2	1	3	4	0	0
	2	5	6	7	8	0	0
4	1	2	1	3	4	0	0
	2	6	5	7	8	0	0
5	1	1	2	3	4	0	0
	2	5	6	8	7	0	0
6	1	1	2	3	4	0	0
	2	6	5	8	7	0	0
7	1	2	1	3	4	0	0
	2	5	6	8	7	0	0
8	1	2	1	3	4	0	0
	2	6	5	8	7	0	0
9	1	1	2	4	3	0	0
	2	5	6	7	8	0	0
10	1	1	2	4	3	0	0
	2	6	5	7	8	0	0
11	1	2	1	4	3	0	0
	2	5	6	7	8	0	0
12	1	2	1	4	3	0	0
	2	6	5	7	8	0	0
13	1	1	2	4	3	0	0
	2	5	6	8	7	0	0
14	1	1	2	4	3	0	0
	2	6	5	8	7	0	0
15	1	2	1	4	3	0	0
	2	5	6	8	7	0	0
16	1	2	1	4	3	0	0
	2	6	5	8	7	0	0

Advance Warning [1.1.9]

	Ph	Tm
Aux Out #1	0	0
Aux Out #2	0	0

NAME: Behymer & Willow **ID:** 285 **Configuration:** Standard File

V76.12/13
Updated 12/6/17

Prepared by:	JT	Date Installed / By:	2/29/2020 (JT)
Checked by:	JT	Date Superseded:	

Date Printed: 2/28/20

[2.1] Coord Modes+

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX INH
Force Mode	FIXED
Flash Mode	CHANNEL

Coord Modes+ (Page 2)

FreeonSeqCh	ON
Closed Loop	OFF
External	OFF
Latch Sec Frc	OFF
Stop-in-Walk	OFF
Ped Recycle	P1256_INH
Expand Split	OFF
Easy Float	OFF
Auto Reset	ON
NTCIP Yield	+ 0

Leave Walk

Before	TIMED
After	TIMED

Intersection Name: Behymer & Willow

ID: 285

Date Printed: 2/28/2020

[2.4] Patterns

Pat#	Cyc	Off	Split	Seq
1	0	0	1	1
2	0	0	2	1
3	0	0	3	1
4	0	0	4	1
5	0	0	5	1
6	0	0	6	1
7	0	0	7	1
8	0	0	8	1
9	0	0	9	1
10	0	0	10	1
11	0	0	0	1
12	0	0	0	1
13	0	0	0	1

[2.7.1-24] Splits

Split	[2.7]	1	2	3	4	5	6	7	8	9	10
1	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
2	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
3	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
4	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
5	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
6	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
7	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
8	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
9	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
10	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
11	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
12	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
13	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON

[2.5] Transition

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	Ret Hold	Flt	Min Veh	Min Ped	MI
1	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
2	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
3	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
4	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
5	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
6	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
7	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
8	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
9	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	OFF
10	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	OFF
11		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
12	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
13		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF

[2.1] Coord Modes+

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX INH
Force Mode	FIXED
Flash Mode	CHANNEL

Coord Modes+ (Page 2)

FreeonSeqCh	ON
Closed Loop	OFF
External	OFF
Latch Sec Frc	OFF
Stop-in-Walk	OFF
Ped Recycle	P1256_INH
Expand Splt	OFF
Easy Float	OFF
Auto Reset	ON
NTCIP Yield	+ 0

Leave Walk

Before	TIMED
After	TIMED

Intersection Name: Behymer & Willow

ID: 285

Date Printed: 2/28/2020

[2.4] Patterns

Pat#	Cyc	Off	Split	Seq
20	0	0	0	1
21	0	0	0	1
22	0	0	0	1
23	0	0	0	1
24	0	0	0	1
25	0	0	0	1
26	0	0	0	1
27	0	0	0	1
28	0	0	0	1
29	0	0	0	1
30	0	0	0	1
31	0	0	0	1
32	0	0	0	1

[2.7.1-24] Splits

Split	[2.7]	1	2	3	4	5	6	7	8	9	10
20	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
21	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
22	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
23	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
24	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
25	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
26	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
27	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
28	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
29	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
30	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
31	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
32	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON

[2.5] Transition

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	Ret Hold	Flt	Min Veh	Min Ped	MI
20		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
21	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
22		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
23	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
24		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
25	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
26		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
27	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
28		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
29	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
30		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
31	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
32		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF

[2.7.X.3] TSP Split Table

Pat#	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
1	0	0	1	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
2	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	2	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
3	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	3	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
4	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	4	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
5	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	5	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
6	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	6	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
9 - FREE	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	9	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						

[2.9.2.(1-8)] Strategy Tables

STRATEGY_1

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_2

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_3

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_4

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_5

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_6

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_7

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_8

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

Overlap 1-8 Program Parms & Parm+ [1.5.2.1] [1.5.2.8]

1	Included Ø									NORMAL		
	Modifier Ø									Grn		
	Conflict Ø									Yel	3	
A	Conflict Olap									Red	1	
	Conflict Ped											
2	Included Ø									NORMAL		
	Modifier Ø									Grn		
	Conflict Ø									Yel	3	
B	Conflict Olap									Red	1	
	Conflict Ped											
3	Included Ø									NORMAL		
	Modifier Ø									Grn		
	Conflict Ø									Yel	3	
C	Conflict Olap									Red	1	
	Conflict Ped											
4	Included Ø									NORMAL		
	Modifier Ø									Grn		
	Conflict Ø									Yel	3	
D	Conflict Olap									Red	1	
	Conflict Ped											
5	Included Ø									NORMAL		
	Modifier Ø									Grn		
	Conflict Ø									Yel	3	
E	Conflict Olap									Red	1	
	Conflict Ped											
6	Included Ø									NORMAL		
	Modifier Ø									Grn		
	Conflict Ø									Yel	3	
F	Conflict Olap									Red	1	
	Conflict Ped											
7	Included Ø									NORMAL		
	Modifier Ø									Grn		
	Conflict Ø									Yel	3	
G	Conflict Olap									Red	1	
	Conflict Ped											
8	Included Ø									NORMAL		
	Modifier Ø									Grn		
	Conflict Ø									Yel	3	
H	Conflict Olap									Red	1	
	Conflict Ped											

OLP GENERAL PARAMETERS [1.5.1]

Lock Inhibit	OFF
Conflict Lock Enable	OFF
Parent P Clearance	ON
Xtra Incl Phases	OFF
InhibitLockInterval	Always

Channel Parameters [1.8.3]

Pre Invert Rail Input	OFF

Preemption Options+ [3.Pre #.6]

Pre #	Enable	Type	Output	Pattern	Skip	Co+Pre	Flash	Max/Min
1	OFF	RAIL	TS2		OFF	OFF	OFF	MAX
2	OFF	RAIL	TS2	0	OFF	OFF	OFF	MAX
3	ON	EMERG	TS2		OFF	OFF	OFF	MAX
4	ON	EMERG	TS2	0	OFF	OFF	OFF	MAX
5	ON	EMERG	TS2		OFF	OFF	OFF	MAX
6	ON	EMERG	TS2	0	OFF	OFF	OFF	MAX

Preemption Times [3.#.1]

Pre #	Delay	MinDura	MaxPres	MinGrn	MinWlk	PedClr	Track Grn	Min Dwell
1								
2	0	0	0	0	0	0	0	0
3		10	60	6		33		10
4	0	10	60	6	0	33	0	10
5		10	60	6		33		10
6	0	10	60	6	0	33	0	10

Preemption, Options [3.#.3]

Pre #	Lock Input	Over-ride Auto Flash	Over-ride Higher Preempt	Flash Dwell	Link
1	OFF	OFF	OFF	ON	
2	OFF	OFF	OFF	OFF	0
3	OFF	OFF	OFF	OFF	
4	OFF	OFF	OFF	OFF	0
5	OFF	OFF	OFF	OFF	
6	OFF	OFF	OFF	OFF	0

Preemption, Times+ [3.#.4]

Pre No.	Extend Dwell	Return Max	Ped Clr	Yel	Red
1					
2	0	0	0	0	0
3		20	10	3.9	2
4	0	20	10	3.9	2
5		20	10	3.9	2
6	0	20	10	3.9	2

Pre 1 = RR1
Pre 2 = RR2
Pre 3 = EVA
Pre 4 = EVB
Pre 5 = EVC
Pre 6 = EVD

Prog Parms+ (MM>1>5>2>X>3)

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

OverlapB+: 1-A

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

OverlapB+: 2-B

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

OverlapB+: 3-C

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

OverlapB+: 4-D

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

Phases [3.#.2] - set the Dwell Phases

Pre #	Column	1	2	3	4	5	6	7	8	9	10
1	Dwell Veh										
	Peds										
2	Dwell Veh										
	Peds										
3	Dwell Veh	2	5								
	Peds										
4	Dwell Veh	4	7								
	Peds										
5	Dwell Veh	6	1								
	Peds										
6	Dwell Veh	8	3								
	Peds										

Phases [3.#.2] - Trk Veh

Pre #	Phases			
1				
2				
3				
4				
5				
6				

Exit Phases [3.#.2]

No.	Exit Phase			
1				
2				
3	2	5		
4	4	7		
5	1	6		
6	3	8		

Overlaps+ [3.#.5]

Pre #		Preempt Overlaps +									
1	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
2	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
3	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
4	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
5	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
6	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										

City of FRESNO

ID: 285 **Name:** Behymer & Willow **Date Printed:** 2/28/2020

CHANNEL SETTINGS [1.8] plus UNIT PARAMETERS [1.2.1]

CHANNEL SETTINGS [1.8.1]

Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Phase / Olap #	1	2	3	4	5	6	7	8	1	2	3	4	2	4	6	8
Channel Type	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	OLP	OLP	OLP	OLP	PED	PED	PED	PED
Channel Flash	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	DRK	DRK	DRK	DRK
Flash 1-2 Hertz		X		X		X		X								
	Page 1								Page 2							

Chan Settings [1.8.2]

Channel	17	18	19	20	21	22	23	24
Phase / Olap #								
Channel Type	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH
Channel Flash	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK
Flash 1-2 Hertz								

CHANNEL PARMETERS [1.8.3]

CH 17-24 Mapping:	DEFAULT
D-Conn Mapping:	NONE
Invert Rail Inputs:	OFF
C1-C11-ABC IO Mode:	USER

IO PARAMETERS [1.8.6]

C1-C11-ABC IO Mode:	USER
D-Conn Mapping:	NONE
T & F BIU Mapping	DEFAULT
Invert Rail Inputs:	OFF
EVP Ped Confirm	OFF

CHANNELS+ [1.8.4]

Channel	*1*	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15*	*16*
Flash Green	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Flash Red	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Flash Yellow	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Inh Red Fl in Preempt	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Olap Ovrd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Override Type	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ID: 285 **NAME:** Behymer & Willow

I/O LOGIC [1.8.7]

Prt Date: 2/28/2020

Row#	Result			Operand_1					Operand_2					Operand_3					Timer	
	I/O	Fcn	=	Inv	Src	I/0	Fun	Logic Func	Inv	Src	I/0	Fun	Logic Func	Inv	Src	I/0	Fun	Logic Func	Dly	Sec
1	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
2	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
3	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
4	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
5	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
6	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
7	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
8	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
9	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
10	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0

Ped Parms (MM>5>4)

Det#	Call	No Act	Max Pres	Err Cnt
1	0	0	0	0
2	2	0	0	0
3	0	0	0	0
4	4	0	0	0
5	0	0	0	0
6	6	0	0	0
7	0	0	0	0
8	8	0	0	0

Veh Par 1-32 [5.1]											Vehicle Options 1-32 [5.2]									Parameters+ 1-32 [5.3]								Info Only	
Det #	Input Slot	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time	Det #	Call	Ext	Que	Add Init	Red Lock	Yell Lock	occ	vol	Det #	Occupancy G	Occupancy Y	Occupancy R	Delay 1	Delay 2	Type	Src	Dir	Det #
1	1I1U	1					0	0	0	255	1	X	X	-	-	-	-	X	X	1	X	X	-			NORM		NBL1	1
2	2I2U	2	0	0	0	0	0	0	0	255	2	-	X	-	-	-	-	X	X	2	X	X	-	0	0	NORM	0		2
3	2I2L	2	0	0	2	0	0	0	0	255	3	X	-	-	-	-	-	X	X	3	X	X	-	0	0	STOPB	0		3
4	2I3U	2	0	0	2	0	0	0	0	255	4	X	-	-	-	-	-	X	X	4	X	X	-	0	0	STOPB	0	SBT3	4
5	2I3L	2	0	0	2	0	0	0	0	255	5	X	-	-	-	-	-	X	X	5	X	X	-	0	0	STOPB	0	SBR1	5
6	2I4U	2	0	0	2	0	0	0	0	255	6	X	-	-	-	-	-	X	X	6	X	X	-	0	0	STOPB	0	SBT1	6
7	3I5U	3					0	0	0	255	7	X	X	-	-	-	-	X	X	7	X	X	-			NORM		EBL1	7
8	4I6U	4	0	0	0	0	0	0	0	255	8	-	X	-	-	-	-	X	X	8	X	X	-	0	0	NORM	0		8
9	4I6L	4	0	10	2	0	0	0	0	255	9	X	-	-	-	-	-	X	X	9	X	X	-	0	0	STOPB	0		9
10	4I7U	4	0	0	2	0	0	0	0	255	10	X	-	-	-	-	-	X	X	10	X	X	-	0	0	STOPB	0		10
11	4I7L	4		15	2		0	0	0	255	11	X	-	-	-	-	-	X	X	11	X	X	-			STOPB			11
12	4I8U	4			2		0	0	0	255	12	X	-	-	-	-	-	X	X	12	X	X	-			STOPB		WBT1	12
13	1I9U	1	0	0	0	0	0	0	0	255	13	X	X	-	-	-	-	X	X	13	X	X	-	0	0	NORM	0		13
14	3I9L	3	0	0	0	0	0	0	0	255	14	X	X	-	-	-	-	X	X	14	X	X	-	0	0	NORM	0		14
15	5J1U	5	0	0	0	0	0	0	0	255	15	X	X	-	-	-	-	X	X	15	X	X	-	0	0	NORM	0	SBL1	15
16	6J2U	6					0	0	0	255	16	-	X	-	-	-	-	X	X	16	X	X	-			NORM			16
17	6J2L	6			2		0	0	0	255	17	X	-	-	-	-	-	X	X	17	X	X	-			STOPB			17
18	6J3U	6			2		0	0	0	255	18	X	-	-	-	-	-	X	X	18	X	X	-			STOPB		NBT3	18
19	6J3L	6			2		0	0	0	255	19	X	-	-	-	-	-	X	X	19	X	X	-			STOPB		NBR1	19
20	6J4U	6			2		0	0	0	255	20	X	-	-	-	-	-	X	X	20	X	X	-			STOPB		NBT1	20
21	7J5U	7					0	0	0	255	21	X	X	-	-	-	-	X	X	21	X	X	-			NORM		WBL1	21
22	8J6U	8	0	0	0	0	0	0	0	255	22	-	X	-	-	-	-	X	X	22	X	X	-	0	0	NORM	0		22
23	8J6L	8	0	0	2	0	0	0	0	255	23	X	-	-	-	-	-	X	X	23	X	X	-	0	0	STOPB	0		23
24	8J7U	8	0	0	2	0	0	0	0	255	24	X	-	-	-	-	-	X	X	24	X	X	-	0	0	STOPB	0	EBT3	24
25	8J7L	8	0	15	2	0	0	0	0	255	25	X	-	-	-	-	-	X	X	25	X	X	-	0	0	STOPB	0	EBR1	25
26	8J8U	8	0	0	2	0	0	0	0	255	26	X	-	-	-	-	-	X	X	26	X	X	-	0	0	STOPB	0	EBT1	26
27	5J9U	5					0	0	0	255	27	X	X	-	-	-	-	X	X	27	X	X	-			NORM			27
28	7J9L	7					0	0	0	255	28	X	X	-	-	-	-	X	X	28	X	X	-			NORM			28
29	2I11U	2	0	0	2	0	0	0	0	255	29	X	-	-	-	-	-	X	X	29	X	X	-	0	0	STOPB	0		29
30	4I11L	4	0	15	2	0	0	0	0	255	30	X	-	-	-	-	-	X	X	30	X	X	-	0	0	STOPB	0		30
31	6J11U	6			2		0	0	0	255	31	X	-	-	-	-	-	X	X	31	X	X	-			STOPB			31
32	8J11L	8		15	2		0	0	0	255	32	X	-	-	-	-	-	X	X	32	X	X	-			STOPB			32
33	1I1L	1	0	0	0	0	0	0	0	255	33	X	X	-	-	-	-	X	X	33	X	X	-	0	0	NORM	0	NBL2	33
34	2I4L	2			2		0	0	0	255	34	X	-	-	-	-	-	X	X	34	X	X	-			STOPB		SBT2	34
35	3I5L	3	0	0	0	0	0	0	0	255	35	X	X	-	-	-	-	X	X	35	X	X	-	0	0	NORM	0	EBL2	35
36	4I8L	4		15	2		0	0	0	255	36	X	-	-	-	-	-	X	X	36	X	X	-			STOPB		WBR1	36
37	5J1L	5	0	0	0	0	0	0	0	255	37	X	X	-	-	-	-	X	X	37	X	X	-	0	0	NORM	0	SBL2	37
38	6J4L	6			2		0	0	0	255	38	X	-	-	-	-	-	X	X	38	X	X	-			STOPB		NBT2	38
39	7J5L	7	0	0	0	0	0	0	0	255	39	X	X	-	-	-	-	X	X	39	X	X	-	0	0	NORM	0		39
40	8J8L	8			2		0	0	0	255	40	X	-	-	-	-	-	X	X	40	X	X	-			STOPB		EBT2	40
41	4I10U	4					0	0	0	255	41	-	X	-	-	-	-	X	X	41	X	X	-			NORM			41
42	4I10L	4					0	0	0	255	42	-	X	-	-	-	-	X	X	42	X	X	-			NORM			42
43	8J10U	8					0	0	0	255	43	-	X	-	-	-	-	X	X	43	X	X	-			NORM			43
44	8J10L	8					0	0	0	255	44	-	X	-	-	-	-	X	X	44	X	X	-			NORM			44

ID: 285 **Name:** Behymer & Willow

Vol/Occ Period 0 Seconds / 5 Minutes

2/28/2020

Alt# 1 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 2 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 3 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 1 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø		0		0		0		0
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Entry	-	-	-	-	-	-	-	-
Enabl SimGap	-	-	-	-	-	-	-	-
Guar Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1		0		0		0		0

Alt# 2 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø		0		0		0		0
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Enrty	-	-	-	-	-	-	-	-
Enabl SimGap	-	-	-	-	-	-	-	-
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1		0		0		0		0

Alt# 3 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø		0		0		0		0
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Enrty	-	-	-	-	-	-	-	-
Enabl SimGap	-	-	-	-	-	-	-	-
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1		0		0		0		0

Alt# 4 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø		0		0		0		0
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Entry	-	-	-	-	-	-	-	-
Enabl SimGap	-	-	-	-	-	-	-	-
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1		0		0		0		0

Alternate Tables [2.6]

Pat#	POpt	PTime	DetGrp	Call/Inh	Olp Off 1	2	3	4	5	6	7	8	ASC	CNA1	Max2	Dia
1	0	0	0	0									0	Off		DFT
2													0	Off		DFT
3	0	0	0	0									0	Off		DFT
4													0	Off		DFT
5	0	0	0	0									0	Off		DFT
6													0	Off		DFT
7	0	0	0	0									0	Off		DFT
8													0	Off		DFT
9	0	0	0	0									0	Off		DFT
10													0	Off		DFT
11	0	0	0	0									0	Off		DFT
12													0	Off		DFT
13	0	0	0	0									0	Off		DFT
14													0	Off		DFT
15	0	0	0	0									0	Off		DFT
16													0	Off		DFT
17	0	0	0	0									0	Off		DFT
18													0	Off		DFT
19	0	0	0	0									0	Off		DFT
20													0	Off		DFT
21	0	0	0	0									0	Off		DFT
22													0	Off		DFT
23	0	0	0	0									0	Off		DFT
24													0	Off		DFT

Time Base Parameters [4.6]

Daylight Savings Time	ENABLE	
Time Base Sync Ref	0	
GMT Offset	-	8
Daylight Savings	**Mon**	**Week**
Spring	3	2
Fall	11	1

NOTE: % and MI parameters are not used and are not shown above.

City of FRESNO

NAME: Behymer & Willow

2/28/2020 **ID:** 285

Annual Schedule [4.3]	Month												Day of Week							Date																															Day Plan
1	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1
	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	2
	X	X	X	X	X	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	3
	X	X	X	X	X	X	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	4
											X						X			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-	
5	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1
																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1
																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1
																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1
																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1
																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1
																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1
																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1
																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1
																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1
																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1
																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1
																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1
																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1
																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

NAME: Behymer & Willow

ID No. 285

DAY PLANS [4.4]

Plan 1				Plan 2				Plan 3				Plan 4				Plan 5			
Evt	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act
1		**1**	**54**	1		**1**	**54**	1		**1**	**54**	1	**0**	**1**	**54**	1			
2	0	0	0	2	0	0	0	2	0	0	0	2	**0**	0	0	2	0	0	0
3				3				3				3	**0**			3			
4	0	0	0	4	0	0	0	4	0	0	0	4	**0**	0	0	4	0	0	0
5				5				5				5	**0**			5			
6	0	0	0	6	0	0	0	6	0	0	0	6	**0**	0	0	6	0	0	0
7				7				7				7	**0**			7			
8	0	0	0	8	0	0	0	8	0	0	0	8	**0**	0	0	8	0	0	0
9				9				9				9	**0**			9			
10	0	0	0	10	0	0	0	10	0	0	0	10	**0**	0	0	10	0	0	0

Plan 6				Plan 7				Plan 8				Plan 9				Plan 10			
Evt	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act
1				1				1				1				1			
2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
3				3				3				3				3			
4	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0
5				5				5				5				5			
6	0	0	0	6	0	0	0	6	0	0	0	6	0	0	0	6	0	0	0
7				7				7				7				7			
8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0
9				9				9				9				9			
10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0

#	Alarm	Ev	Alr
1	Power Up Alarm.	X	X
2	Stop Timing	X	X
3	Cabinet Door Activation	-	-
4	Coordination Failure	X	X
5	External Alarm # 1	-	-
6	External Alarm # 2	-	-
7	External Alarm # 3	-	-
8	External Alarm # 4	-	-
9	Closed Loop Disabled	-	-
10	External Alarm # 5	-	-
11	External Alarm # 6	-	-
12	Manual Control Enable	X	X
13	Coord Free Input	-	-
14	Local Flash Input	X	X
15	CMU/MMU Flash Input	-	-
16	MMU Fault	X	X
17	Cycle Fault	X	-
18	Cycle Failure	X	-
19	Coordination Fault	X	X
20	Controller Fault	X	X
25	EEPROM CRC Fault	X	X
30	Coord Diagnostic Fault	X	X
37	Download Request	X	X
38	Pattern Change	-	-
49	Preempt 1 Input	X	X
50	Preempt 2 Input	X	X
51	Preempt 3 Input	X	X
52	Preempt 4 Input	X	X
53	Preempt 5 Input	X	X
54	Preempt 6 Input	X	X
55	Preempt 7 Input	-	-
56	Preempt 8 Input	-	-
57	Preempt 9 Input	-	-
58	Preempt 10 Input	-	-
59	EEPROM Compare Fault	X	X
60	Coordination Failure	X	X
63	TSP Active Trigger	-	-
73	Controller Access	X	X
81	FIO Changed Status	X	X

#1 Bus Preempt

Enable	OFF	Min	0	Times		Prior. Phases	0	0	0	0
Coor+Pre	OFF	Max	0			---TSP---				
Lock Mode	MAX	Lock	0			Headway	0			
No Skip	OFF	Alt Table	0			GrpLock	OFF			
Qjump	OFF	HoldDwell	#N/A			FreeMod	OFF			

#2 Bus Preempt

Enable	OFF	Min	0	Times		Prior. Phases	0	0	0	0
Coor+Pre	OFF	Max	0			---TSP---				
Lock Mode	MAX	Lock	0			Headway	0			
No Skip	OFF	Alt Table	0			GrpLock	OFF			
Qjump	OFF	HoldDwell	#N/A			FreeMod	OFF			

#3 Bus Preempt

Enable	OFF	Min	0	Times		Prior. Phases	0	0	0	0
Coor+Pre	OFF	Max	0			---TSP---				
Lock Mode	MAX	Lock	0			Headway	0			
No Skip	OFF	Alt Table	0			GrpLock	OFF			
Qjump	OFF	HoldDwell	#N/A			FreeMod	OFF			

#4 Bus Preempt

Enable	OFF	Min	0	Times		Prior. Phases	0	0	0	0
Coor+Pre	OFF	Max	0			---TSP---				
Lock Mode	MAX	Lock	0			Headway	0			
No Skip	OFF	Alt Table	0			GrpLock	OFF			
Qjump	OFF	HoldDwell	#N/A			FreeMod	OFF			

I/O INPUT TABLE

	1	2	3	4	5	6	7	8
1	2	16	8	22	3	17	9	23
2	6	20	12	26	198	199	30	31
3	15	1	21	7	27	13	28	14
4	189	189	189	189	4	18	10	24
5	130	134	132	136	200	201	202	203
6	32	5	19	11	25	29	208	207
7	33	34	35	36	37	38	39	40
8	41	42	43	44	189	189	189	189

ACTION Table [4.5]

Act	Pat#	A1	A2	A3	S1	S2	S3	S4	S5	S6	S7	S8	P1	P2
1	1	-	-	-	-	-	-	-	-	-	-	-	0	0
2	2	-	-	-	-	-	-	-	-	-	-	-	0	0
3	3	-	-	-	-	-	-	-	-	-	-	-	0	0
4	4	-	-	-	-	-	-	-	-	-	-	-	0	0
5	5	-	-	-	-	-	-	-	-	-	-	-	0	0
6	6	-	-	-	-	-	-	-	-	-	-	-	0	0
7	7	-	-	-	-	-	-	-	-	-	-	-	0	0
8	8	-	-	-	-	-	-	-	-	-	-	-	0	0
9	9	-	-	-	-	-	-	-	-	-	-	-	0	0
10	10	-	-	-	-	-	-	-	-	-	-	-	0	0
11	11	-	-	-	-	-	-	-	-	-	-	-	0	0
12	12	-	-	-	-	-	-	-	-	-	-	-	0	0
13	13	-	-	-	-	-	-	-	-	-	-	-	0	0
14	14	-	-	-	-	-	-	-	-	-	-	-	0	0
15	15	-	-	-	-	-	-	-	-	-	-	-	0	0
16	0	-	-	-	-	-	-	-	-	-	-	-	0	0
54	254	-	-	-	-	-	-	-	-	-	-	-	0	0
55	0	-	-	-	-	-	-	-	-	-	-	-	0	0

Alarm Parameters [1.6.7.1]

Pattern Events:	ON
Local Txmt Alarms:	OFF
Reassign User Alarm #1 In (5):	0
Reassign User Alarm #2 In (6):	0
Preempt Events:	ON

City of FRESNO

Date Printed
2/28/2020

ID: 285 **Name:** Behymer & Willow

I/O Inputs - 1.8.9.1.5

C-1 PIN	I/O Source	Function	Input Name
39	I1-1	2	Veh Det 2
40	I1-2	16	Veh Det 16
41	I1-3	8	Veh Det 8
42	I1-4	22	Veh Det 22
43	I1-5	3	Veh Det 3
44	I1-6	17	Veh Det 17
45	I1-7	9	Veh Det 9
46	I1-8	23	Veh Det 23
47	I2-1	6	Veh Det 6
48	I2-2	20	Veh Det 20
49	I2-3	12	Veh Det 12
50	I2-4	26	Veh Det 26
51	I2-5	198	Pre 1 In
52	I2-6	199	Pre 2 In
53	I2-7	30	Veh Det 30
54	I2-8	31	Veh Det 31
55	I3-1	15	Veh Det 15
56	I3-2	1	Veh Det 1
57	I3-3	21	Veh Det 21
58	I3-4	7	Veh Det 7
59	I3-5	27	Veh Det 27
60	I3-6	13	Veh Det 13
61	I3-7	28	Veh Det 28
62	I3-8	14	Veh Det 14
63	I4-5	4	Veh Det 4
64	I4-6	18	Veh Det 18
65	I4-7	10	Veh Det 10
66	I4-8	24	Veh Det 24
67	I5-1	130	Ped Call 2
68	I5-2	134	Ped Call 6
69	I5-3	132	Ped Call 4
70	I5-4	136	Ped Call 8
71	I5-5	200	Pre 3 In
72	I5-6	201	Pre 4 In
73	I5-7	202	Pre 5 In
74	I5-8	203	Pre 6 In
75	I6-1	32	Veh Det 32
76	I6-2	5	Veh Det 5
77	I6-3	19	Veh Det 19
78	I6-4	11	Veh Det 11
79	I6-5	25	Veh Det 25
80	I6-6	29	Veh Det 29
81	I6-7	208	Local Flash
82	I6-8	207	Comp StopTm

I/O OUTPUTS - 1.8.9.2.5

C-1 PIN	I/O Source	Function	Output Name
1	Logic Grd		
2	O1-1	14	Red Ch 14
3	O1-2	62	Grn Chan 14
4	O1-3	4	Red Ch 4
5	O1-4	28	Yel Chan 4
6	O1-5	52	Grn Chan 4
7	O1-6	3	Red Ch 3
8	O1-7	27	Yel Chan 3
9	O1-8	51	Grn Chan 3
10	O2-1	13	Red Ch 13
11	O2-2	61	Grn Chan 13
12	O2-3	2	Red Ch 2
13	O2-4	26	Yel Chan 2
14	Logic Grd		
15	O2-5	50	Grn Chan 2
16	O2-6	1	Red Ch 1
17	O2-7	25	Yel Chan 1
18	O2-8	49	Grn Chan 1
19	O3-1	16	Red Ch 16
20	O3-2	64	Grn Chan 16
21	O3-3	8	Red Ch 8
22	O3-4	32	Yel Chan 8
23	O3-5	56	Grn Chan 8
24	O3-6	7	Red Ch 7
25	O3-7	31	Yel Chan 7
26	O3-8	55	Grn Chan 7
27	O4-1	15	Red Ch 15
28	O4-2	63	Grn Chan 15
29	O4-3	6	Red Ch 6
30	O4-4	30	Yel Chan 6
31	O4-5	54	Grn Chan 6
32	O4-6	5	Red Ch 5
33	O4-7	29	Yel Chan 5
34	O4-8	53	Grn Chan 5
35	O5-1	37	Yel Chan 13
36	O5-2	39	Yel Chan 15
37	O5-3	38	Yel Chan 14
38	O5-4	40	Yel Chan 16
100	O5-5	42	Yel Chan 18
101	O5-6	41	Yel Chan 17
102	O5-7	115	Not Used
103	O5-8	114	Watchdog

C-1 PIN	I/O Source	Function	Output Name
83	O6-1	18	Red Ch 18
84	O6-2	66	Grn Chan 18
85	O6-3	12	Red Ch 12
86	O6-4	36	Yel Chan 12
87	O6-5	60	Grn Chan 12
88	O6-6	11	Red Ch 11
89	O6-7	35	Yel Chan 11
90	O6-8	59	Grn Chan 11
91	O7-1	17	Red Ch 17
92	Logic Grd		
93	O7-2	65	Grn Chan 17
94	O7-3	10	Red Ch 10
95	O7-4	34	Yel Chan 10
96	O7-5	58	Grn Chan 10
97	O7-6	9	Red Ch 9
98	O7-7	33	Yel Chan 9
99	O7-8	57	Grn Chan 9

I/O Outputs - 1.8.9.2.5
C-11 OUTPUTS

1	O8-1	115	Not Used
2	O8-2	115	Not Used
3	O8-3	115	Not Used
4	O8-4	115	Not Used

I/O Inputs - 1.8.9.1.5
C-11 INPUTS

15	I7-1	33	Veh Det 33
16	I7-2	34	Veh Det 34
17	I7-3	35	Veh Det 35
18	I7-4	36	Veh Det 36
19	I7-5	37	Veh Det 37
20	I7-6	38	Veh Det 38
21	I7-7	39	Veh Det 39
22	I7-8	40	Veh Det 40
23	I8-1	41	Veh Det 41
24	I8-2	42	Veh Det 42
25	I8-3	43	Veh Det 43
26	I8-4	44	Veh Det 44
27	I8-5	189	Unused
28	I8-6	189	Unused
29	I8-7	189	Unused
30	I8-8	189	Unused

City of FRESNO

ID: 285

NAME: Behymer & Willow

Date Printed: 2/28/2020

ID Number: 285

LOCATION: Behymer & Willow

City of Fresno
332 Cabinet
44 Detector Plus Setup

DETECTOR ASSIGNMENTS

ISOLATORS

"I"	I1	I2	I3	I4	I5	I6	I7	I8	I9	I10	I11	I12	I13	I14
UPPER	Ph 1 Call&Ext T2-1&2 C1-56 Det 1 NBL1	Ph 2 Ext T2-5&6 C1-39 Det 2 SB Far	Ph 2 Call&TP3 T2-9&10 C1-63 Det 4 SB Mid	Ph 2 Call&TP3 T4-1&2 C1-47 Det 6 SBT1	Ph 3 Call&Ext T4-5&6 C1-58 Det 7 EBL1	Ph 4 Ext T4-9&10 C1-41 Det 8 WB Far	Ph 4 Call&TP3 T6-1&2 C1-65 Det 10 WB Mid	Ph 4 Call&TP3 T6-5&6 C1-49 Det 12 WBT1	Ph 1 Call&Ext T6-9&10 C1-60 Det 13 NBLt Bk	Ph 2/4 Ext T10-5&6 C11-23 Det 41	Ph 2 Call&Ext T8-1 C1-80 Det 29 BIKE	Ph 2 PPB T8-4 C1-67	Ph 6 PPB T8-7 C1-68	FLASH SENSE T8-10 C1-81
LOWER	Ph 1 Call&Ext T2-3&4 C11-15 Det 33 NBL2	Ph 2 Call&TP3 T2-7&8 C1-43 Det 3 SB Bk	Ph 2 Call&Ext T2-11&12 C1-76 Det 5 SBRt	Ph 2 Call&TP3 T4-3&4 C11-16 Det 34 SBT2	Ph 3 Call&Ext T4-7&8 C11-17 Det 35 EBL2	Ph 4 Call&TP3 T4-11&12 C1-45 Det 9 WB Bk	Ph 4 Call&Ext T6-3&4 C1-78 Det 11 WBRt	Ph 4 Call&TP3 T6-7&8 C11-18 Det 36 WBT2	Ph 3 Call&Ext T6-11&12 C1-62 Det 14 EBLt Bk	Ph 2/4 Ext T10-7&8 C11-24 Det 42	Ph 4 Call&Ext T8-2 C1-53 Det 30 BIKE	Ph 4 PPB T8-5 C1-69	Ph 8 PPB T8-8 C1-70	STOP TIMING T8-11 C1-82
"J"	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	J13	J14
UPPER	Ph 5 Call&Ext T3-1&2 C1-55 Det 15 SBL1	Ph 6 Ext T3-5&6 C1-40 Det 16 NB Far	Ph 6 Call&TP3 T3-9&10 C1-64 Det 18 NB Mid	Ph 6 Call&TP3 T5-1&2 C1-48 Det 20 NBT1	Ph 7 Call&Ext T5-5&6 C1-57 Det 21 WBL1	Ph 8 Ext T5-9&10 C1-42 Det 22 EB Far	Ph 8 Call&TP3 T7-1&2 C1-66 Det 24 EB Mid	Ph 8 Call&TP3 T7-5&6 C1-50 Det 26 EBT1	Ph 5 Call&Ext T7-9&10 C1-59 Det 27 SBLt Bk	Ph 6/8 Ext T10-9&10 C11-25 Det 43	Ph 6 Call&Ext T9-1 C1-54 Det 31 BIKE	EMER A Ph 2 + 5 T9-4 C1-71	EMER B Ph 4 + 7 T9-5 C1-72	RR1 FLASH T9-10 C1-51
LOWER	Ph 5 Call&Ext T3-3&4 C11-19 Det 37 SBL2	Ph 6 Call&TP3 T3-7&8 C1-44 Det 17 NB Bk	Ph 6 Call&Ext T3-11&12 C1-77 Det 19 NBRt	Ph 6 Call&TP3 T5-3&4 C11-20 Det 38 NBT2	Ph 7 Call&Ext T5-7&8 C11-21 Det 39 WBL2	Ph 8 Call&TP3 T5-11&12 C1-46 Det 23 EB Bk	Ph 8 Call&Ext T7-3&4 C1-79 Det 25 EBRt	Ph 8 Call&TP3 T7-7&8 C11-22 Det 40 EBT2	Ph 7 Call&Ext T7-11&12 C1-61 Det 28 WBLt Bk	Ph 6/8 EXT T10-11&12 C11-26 Det 44	Ph 8 Call&Ext T9-2 C1-75 Det 32 BIKE	EMER C Ph 1 + 6 T9-7 C1-73	EMER D Ph 3 + 8 T9-8 C1-74	RR2 LTD OP T9-11 C1-52

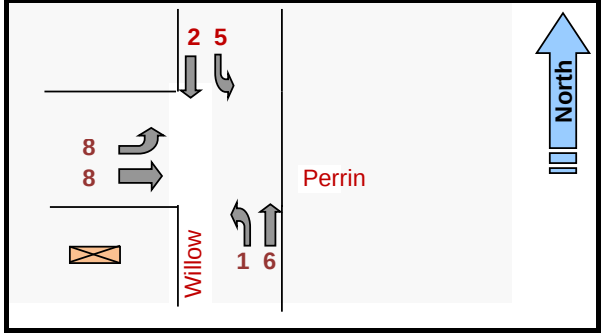
COMMENTS:

TIMING UPDATES AND MODIFICATIONS

ID: 285 **NAME:** Behymer & Willow

DATE	CHANGES MADE	ATMS or CABINET	BY
2/28/2020	Updated All Red Start from 4 to 6 seconds. Updated timing calculations, FDW, and detector attributes.	ATMS	JT

Movement	NL	ST			SL	NT		ET		
Times [1.1.1]	1	2	3	4	5	6	7	8	9	10
Min Green	8	8	0		8	8		8		0
Gap, Ext	2	5.9	0		2	5.9		5.5		0
Max 1	20	35	0		20	35		30		0
Max 2	12	25	0		12	25		20		0
Yel Clearance	4.3	4.7	0		4.3	4.7		4.3		0
Red Clearance	2	1	0		1	1		1		0
Walk	0	5	0			0		0		0
Ped Clearance	0	32	0			0		0		0
Red Revert	2	2	0		2	2		2		0
Add Initial	0		0			0		0		0
Max Initial	0		0			0		0		0
Time B4 Reduct	0	8	0			8		8		0
Cars B4 Reduct	0		0			0		0		0
Time To Reduce	0	18	0			18		15		0
Reduce By	0		0			0		0		0
Min Gap	2	2	0		2	2		2		0
DyMaxLim	0		0			0		0		0
Max Step	0		0			0		0		0
Options [1.1.2]	1	2	3	4	5	6	7	8	9	10
Enable	X	X			X	X		X		
Min Recall										
Max Recall										
Ped Recall										
Soft Recall		X				X				
Lock Calls										
Auto Flash Entry										
Auto Flash Exit										
Dual Entry		X				X				
Enable Simul Gap										
Gaurantee Passage										
Rest In Walk										
Conditonal Service										
Non-Actuated 1										
Non-Actuated 2										
Add Init Calc										



Phase Options+ [1.1.3]

Options+	1	2	3	4	5	6	7	8	9	10
Reservice										
PedClr Thru Yel										
SkipRed-NoCall										
Red Rest										
Max II										
*Max III										
Max Inhibit										
Ped Delay										
Red Rest on Gap										
Conflicting Phase	0	0	0	0	0	0	0	0	0	0
Grn/Ped Delay										
Omit Yel, Yel P	0	0	0	0	0	0	0	0	0	0
Ped Out/Olp Ped										
StartYel, Next P	0	0	0	0	0	0	0	0	0	0
*StartupVehCall	1	2	3	4	5	6	7	8		
*StartupPedCall										

Phase Concurrency [1.1.4]

Phase	Ring	StartUp	Concurrent Phases							
1	1	RED	5	6	0	0				
2	1	GREEN	5	6	0	0				
3	1	RED	7	8	0	0				
4	1	RED	7	8	0	0				
5	2	RED	1	2	0	0				
6	2	GREEN	1	2	0	0				
7	2	RED	3	4	0	0				
8	2	RED	3	4	0	0				
9	0	RED	0	0	0	0				
10	0	RED	0	0	0	0				
11	0	RED	0	0	0	0				
12	0	RED	0	0	0	0				

Comm Ports [6.6]

Channel	Port	Echo	Mode
Async 1	SP1	NONE	0
Async 2	SP2	NONE	0
Async 3	SP8	NONE	0
Async 4	OFF	NONE	0
Sync 1	SP5S		
Sync 2	OFF		
TS2CVM	NONE		
Opticom	NONE		
GPS	NONE		

Unit Params [1.2.1]

Screen Size	8	Metric	OFF
Startup Flash	0	Red Revert	2
MCE Timeout	0	Auto Ped Clear	OFF
Loc Flsh Start	RSt	Display Time	60
Yellow < 3"	OFF	Tone Disable	ON
Allow Skip Yel	OFF	AudioPedTime	0
Start Red Tm	6	Phase Mode	STD8
Startup Calls	UseProg	CNA FreeTime	0
TOD Dimming	OFF	Diamond Mode	4Ph
ST over Prmpt	OFF	Free Ring Seq	1
Feature Profile	1	IO Mode	USER
Mx Seek TrkTm	0	Max Cyc Timer	0
Mx Seek Dwell	0	CycFlt Actn	ALARM
Prmpt/Ext Coor	EXT	Clrnc Decide	OFF
Aux Switch	STOPTM	LPAlt Srs	3-6
*InhFYA Red St	OFF	Security Delay	0
RingA1go	0		

* - 76.12B or newer

Times+ [1.1.7]

	1	2	3	4	5	6	7	8
Walk2	0	0	0	0	0	0	0	0
BikeClr	0	0	0	0	0	0	0	0
GrnFlash	0	0	0	0	0	0	0	0
SfClrMn	0	0	0	0	0	0	0	0
SfClrNoFlsh	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
NoPed Reserv								

Comm [6.2]

Port	Baud Rate	FCM
1	38400	6
2	9600	6
3	9600	6
4	9600	6

Comm [6.5] — Host IPs

IP Address:	10	53	25	131	ATMS			
Mask:	255	255	255	0	10	50	10	22
Gateway:	10	53	25	1	SG			
Port #:	5125				0	0	0	0

City of FRESNO

Phase Seq. (2 ring) Chart [1.2.4]

Seq #	Ring	Phases					
1	1	1	2	3	4	0	0
	2	5	6	7	8	0	0
2	1	1	2	3	4	0	0
	2	6	5	7	8	0	0
3	1	2	1	3	4	0	0
	2	5	6	7	8	0	0
4	1	2	1	3	4	0	0
	2	6	5	7	8	0	0
5	1	1	2	3	4	0	0
	2	5	6	8	7	0	0
6	1	1	2	3	4	0	0
	2	6	5	8	7	0	0
7	1	2	1	3	4	0	0
	2	5	6	8	7	0	0
8	1	2	1	3	4	0	0
	2	6	5	8	7	0	0
9	1	1	2	4	3	0	0
	2	5	6	7	8	0	0
10	1	1	2	4	3	0	0
	2	6	5	7	8	0	0
11	1	2	1	4	3	0	0
	2	5	6	7	8	0	0
12	1	2	1	4	3	0	0
	2	6	5	7	8	0	0
13	1	1	2	4	3	0	0
	2	5	6	8	7	0	0
14	1	1	2	4	3	0	0
	2	6	5	8	7	0	0
15	1	2	1	4	3	0	0
	2	5	6	8	7	0	0
16	1	2	1	4	3	0	0
	2	6	5	8	7	0	0

Advance Warning [1.1.9]

	Ph	Tm
Aux Out #1	0	0
Aux Out #2	0	0

NAME: Perrin & Willow **ID:** 284 **Configuration:** Standard File

V76.12/13
Updated 12/6/17

Prepared by:	CS	Date Installed / By:	
Checked by:	CS	Date Superseded:	

Date Printed: 3/18/20

[2.1] Coord Modes+

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX INH
Force Mode	FIXED
Flash Mode	CHANNEL

Coord Modes+ (Page 2)

FreeonSeqCh	ON
Closed Loop	OFF
External	OFF
Latch Sec Frc	OFF
Stop-in-Walk	OFF
Ped Recycle	P1256_INH
Expand Split	OFF
Easy Float	OFF
Auto Reset	ON
NTCIP Yield	+ 0

Leave Walk

Before	TIMED
After	TIMED

Intersection Name: Perrin & Willow

ID: 284

Date Printed: 3/18/2020

[2.4] Patterns

Pat#	Cyc	Off	Split	Seq
1	0	0	1	1
2	0	0	2	1
3	0	0	3	1
4	0	0	4	1
5	0	0	5	1
6	0	0	6	1
7	0	0	7	1
8	0	0	8	1
9	0	0	9	1
10	0	0	10	1
11	0	0	0	1
12	0	0	0	1
13	0	0	0	1

[2.7.1-24] Splits

Split	[2.7]	1	2	3	4	5	6	7	8	9	10
1	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
2	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
3	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
4	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
5	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
6	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
7	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
8	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
9	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
10	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
11	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
12	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
13	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON

[2.5] Transition

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	Ret Hold	Flt	Min Veh	Min Ped	MI
1	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
2	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
3	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
4	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
5	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
6	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
7	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
8	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
9	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	OFF
10	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	OFF
11		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
12	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
13		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF

[2.1] Coord Modes+

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX INH
Force Mode	FIXED
Flash Mode	CHANNEL

Coord Modes+ (Page 2)

FreeonSeqCh	ON
Closed Loop	OFF
External	OFF
Latch Sec Frc	OFF
Stop-in-Walk	OFF
Ped Recycle	P1256_INH
Expand Splt	OFF
Easy Float	OFF
Auto Reset	ON
NTCIP Yield	+ 0

Leave Walk

Before	TIMED
After	TIMED

Intersection Name: Perrin & Willow

ID: 284

City of FRESNO

Date Printed: 3/18/2020

[2.4] Patterns

Pat#	Cyc	Off	Split	Seq
20	0	0	0	1
21	0	0	0	1
22	0	0	0	1
23	0	0	0	1
24	0	0	0	1
25	0	0	0	1
26	0	0	0	1
27	0	0	0	1
28	0	0	0	1
29	0	0	0	1
30	0	0	0	1
31	0	0	0	1
32	0	0	0	1

[2.7.1-24] Splits

Split	[2.7]	1	2	3	4	5	6	7	8	9	10
20	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
21	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
22	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
23	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
24	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
25	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
26	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
27	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
28	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
29	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
30	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
31	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
32	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON

[2.5] Transition

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	Ret Hold	Flt	Min Veh	Min Ped	MI
20		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
21	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
22		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
23	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
24		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
25	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
26		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
27	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
28		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
29	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
30		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
31	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
32		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF

[2.7.X.3] TSP Split Table

Pat#	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
1	0	0	1	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
2	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	2	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
3	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	3	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
4	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	4	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
5	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	5	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
6	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	6	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
9 - FREE	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	9	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						

[2.9.2.(1-8)] Strategy Tables

STRATEGY_1

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_2

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_3

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_4

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_5

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_6

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_7

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_8

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

Overlap 1-8 Program Parms & Parm+ [1.5.2.1] [1.5.2.8]

1	Included Ø									NORMAL	
	Modifier Ø									Grn	
	Conflict Ø									Yel	3
A	Conflict Olap									Red	1
	Conflict Ped										
2	Included Ø									NORMAL	
	Modifier Ø									Grn	
	Conflict Ø									Yel	3
B	Conflict Olap									Red	1
	Conflict Ped										
3	Included Ø									NORMAL	
	Modifier Ø									Grn	
	Conflict Ø									Yel	3
C	Conflict Olap									Red	1
	Conflict Ped										
4	Included Ø									NORMAL	
	Modifier Ø									Grn	
	Conflict Ø									Yel	3
D	Conflict Olap									Red	1
	Conflict Ped										
5	Included Ø									NORMAL	
	Modifier Ø									Grn	
	Conflict Ø									Yel	3
E	Conflict Olap									Red	1
	Conflict Ped										
6	Included Ø									NORMAL	
	Modifier Ø									Grn	
	Conflict Ø									Yel	3
F	Conflict Olap									Red	1
	Conflict Ped										
7	Included Ø									NORMAL	
	Modifier Ø									Grn	
	Conflict Ø									Yel	3
G	Conflict Olap									Red	1
	Conflict Ped										
8	Included Ø									NORMAL	
	Modifier Ø									Grn	
	Conflict Ø									Yel	3
H	Conflict Olap									Red	1
	Conflict Ped										

OLP GENERAL PARAMETERS [1.5.1]

Lock Inhibit	OFF
Conflict Lock Enable	OFF
Parent P Clearance	ON
Xtra Incl Phases	OFF
InhibitLockInterval	Always

Channel Parameters [1.8.3]

Pre Invert Rail Input	OFF

Preemption Options+ [3.Pre #.6]

Pre #	Enable	Type	Output	Pattern	Skip	Co+Pre	Flash	Max/Min
1	OFF	RAIL	TS2		OFF	OFF	OFF	MAX
2	OFF	RAIL	TS2	0	OFF	OFF	OFF	MAX
3	ON	EMERG	TS2		OFF	OFF	OFF	MAX
4	OFF	EMERG	TS2	0	OFF	OFF	OFF	MAX
5	ON	EMERG	TS2		OFF	OFF	OFF	MAX
6	ON	EMERG	TS2	0	OFF	OFF	OFF	MAX

Preemption Times [3.#.1]

Pre #	Delay	MinDura	MaxPres	MinGrn	MinWlk	PedClr	Track Grn	Min Dwell
1								
2	0	0	0	0	0	0	0	0
3		10	60	6		28		10
4	0	10	60	6	0	28	0	10
5		10	60	6		28		10
6	0	10	60	6	0	28	0	10

Preemption, Options [3.#.3]

Pre #	Lock Input	Over-ride Auto Flash	Over-ride Higher Preempt	Flash Dwell	Link
1	OFF	OFF	OFF	ON	
2	OFF	OFF	OFF	OFF	0
3	OFF	OFF	OFF	OFF	
4	OFF	OFF	OFF	OFF	0
5	OFF	OFF	OFF	OFF	
6	OFF	OFF	OFF	OFF	0

Preemption, Times+ [3.#.4]

Pre No.	Extend Dwell	Return Max	Ped Clr	Yel	Red
1					
2	0	0	0	0	0
3		20	10	3.9	2
4	0	20	10	3.9	2
5		20	10	3.9	2
6	0	20	10	3.9	2

Pre 1 = RR1
Pre 2 = RR2
Pre 3 = EVA
Pre 4 = EVB
Pre 5 = EVC
Pre 6 = EVD

Prog Parms+ (MM>1>5>2>X>3)

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

OverlapB+: 1-A

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

OverlapB+: 2-B

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

OverlapB+: 3-C

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

OverlapB+: 4-D

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

Phases [3.#.2] - set the Dwell Phases

Pre #	Column	1	2	3	4	5	6	7	8	9	10
1	Dwell Veh										
	Peds										
2	Dwell Veh										
	Peds										
3	Dwell Veh	2	5								
	Peds										
4	Dwell Veh										
	Peds										
5	Dwell Veh	6	1								
	Peds										
6	Dwell Veh	8									
	Peds										

Phases [3.#.2] - Trk Veh

Pre #	Phases			
1				
2				
3				
4				
5				
6				

Exit Phases [3.#.2]

No.	Exit Phase			
1				
2				
3	2	5		
4				
5	1	6		
6	8			

Overlaps+ [3.#.5]

Pre #		Preempt Overlaps +									
1	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
2	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
3	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
4	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
5	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
6	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										

City of FRESNO

ID: 284 **Name:** Perrin & Willow **Date Printed:** 3/18/2020

CHANNEL SETTINGS [1.8] plus UNIT PARAMETERS [1.2.1]

CHANNEL SETTINGS [1.8.1]

Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Phase / Olap #	1	2	3	4	5	6	7	8	1	2	3	4	2	4	6	8
Channel Type	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	OLP	OLP	OLP	OLP	PED	PED	PED	PED
Channel Flash	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	DRK	DRK	DRK	DRK
Flash 1-2 Hertz		X		X		X		X								
	Page 1								Page 2							

Chan Settings [1.8.2]

17	18	19	20	21	22	23	24
VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH
DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK

CHANNEL PARMETERS [1.8.3]

CH 17-24 Mapping:	DEFAULT
D-Conn Mapping:	NONE
Invert Rail Inputs:	OFF
C1-C11-ABC IO Mode:	USER

IO PARAMETERS [1.8.6]

C1-C11-ABC IO Mode:	USER
D-Conn Mapping:	NONE
T & F BIU Mapping	DEFAULT
Invert Rail Inputs:	OFF
EVP Ped Confirm	OFF

CHANNELS+ [1.8.4]

Channel	*1*	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15*	*16*
Flash Green	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Flash Red	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Flash Yellow	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Inh Red Fl in Preempt	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Olap Ovrd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Override Type	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ID: 284 **NAME:** Perrin & Willow

I/O LOGIC [1.8.7]

Prt Date: 3/18/2020

Row#	Result			Operand_1					Operand_2					Operand_3					Timer	
	I/O	Fcn	=	Inv	Src	I/0	Fun	Logic Func	Inv	Src	I/0	Fun	Logic Func	Inv	Src	I/0	Fun	Logic Func	Dly	Sec
1	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
2	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
3	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
4	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
5	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
6	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
7	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
8	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
9	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
10	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0

Ped Parms (MM>5>4)

Det#	Call	No Act	Max Pres	Err Cnt
1	0	0	0	0
2	2	0	0	0
3	0	0	0	0
4	4	0	0	0
5	0	0	0	0
6	6	0	0	0
7	0	0	0	0
8	8	0	0	0

Veh Par 1-32 [5.1]											Vehicle Options 1-32 [5.2]									Parameters+ 1-32 [5.3]								Info Only	
Det #	Input Slot	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time	Det #	Call	Ext	Que	Add Init	Red Lock	Yell Lock	occ	vol	Det #	Occupancy G	Y	R	Delay 1	2	Type	Src	Dir	Det #
1	1I1U	1					0	0	0	255	1	X	X	-	-	-	-	X	X	1	X	X	-			NORM		NBL1	1
2	2I2U	2	0	0	0	0	0	0	0	255	2	-	X	-	-	-	-	X	X	2	X	X	-	0	0	NORM	0		2
3	2I2L	2	0	0	2	0	0	0	0	255	3	X	-	-	-	-	-	X	X	3	X	X	-	0	0	STOPB	0		3
4	2I3U	2	0	0	2	0	0	0	0	255	4	X	-	-	-	-	-	X	X	4	X	X	-	0	0	STOPB	0	SBT3	4
5	2I3L	2	0	0	2	0	0	0	0	255	5	X	-	-	-	-	-	X	X	5	X	X	-	0	0	STOPB	0	SBR1	5
6	2I4U	2	0	0	2	0	0	0	0	255	6	X	-	-	-	-	-	X	X	6	X	X	-	0	0	STOPB	0	SBT1	6
7	3I5U	8					0	0	0	255	7	X	X	-	-	-	-	X	X	7	X	X	-			NORM		EBL1	7
8	4I6U	4	0	0	0	0	0	0	0	255	8	-	X	-	-	-	-	X	X	8	X	X	-	0	0	NORM	0		8
9	4I6L	4	0	0	2	0	0	0	0	255	9	X	-	-	-	-	-	X	X	9	X	X	-	0	0	STOPB	0		9
10	4I7U	4	0	0	2	0	0	0	0	255	10	X	-	-	-	-	-	X	X	10	X	X	-	0	0	STOPB	0		10
11	4I7L	4		15	2		0	0	0	255	11	X	-	-	-	-	-	X	X	11	X	X	-			STOPB			11
12	4I8U	4			2		0	0	0	255	12	X	-	-	-	-	-	X	X	12	X	X	-			STOPB			12
13	1I9U	1	0	0	0	0	0	0	0	255	13	X	X	-	-	-	-	X	X	13	X	X	-	0	0	NORM	0		13
14	3I9L	8	0	0	0	0	0	0	0	255	14	X	X	-	-	-	-	X	X	14	X	X	-	0	0	NORM	0		14
15	5J1U	5	0	0	0	0	0	0	0	255	15	X	X	-	-	-	-	X	X	15	X	X	-	0	0	NORM	0	SBL1	15
16	6J2U	6					0	0	0	255	16	-	X	-	-	-	-	X	X	16	X	X	-			NORM			16
17	6J2L	6			2		0	0	0	255	17	X	-	-	-	-	-	X	X	17	X	X	-			STOPB			17
18	6J3U	6			2		0	0	0	255	18	X	-	-	-	-	-	X	X	18	X	X	-			STOPB		NBT3	18
19	6J3L	6			2		0	0	0	255	19	X	-	-	-	-	-	X	X	19	X	X	-			STOPB		NBR1	19
20	6J4U	6			2		0	0	0	255	20	X	-	-	-	-	-	X	X	20	X	X	-			STOPB		NBT1	20
21	7J5U	7					0	0	0	255	21	X	X	-	-	-	-	X	X	21	X	X	-			NORM			21
22	8J6U	8	0	0	0	0	0	0	0	255	22	-	X	-	-	-	-	X	X	22	X	X	-	0	0	NORM	0		22
23	8J6L	8	0	0	2	0	0	0	0	255	23	X	-	-	-	-	-	X	X	23	X	X	-	0	0	STOPB	0		23
24	8J7U	8	0	0	2	0	0	0	0	255	24	X	-	-	-	-	-	X	X	24	X	X	-	0	0	STOPB	0		24
25	8J7L	8	0	15	2	0	0	0	0	255	25	X	-	-	-	-	-	X	X	25	X	X	-	0	0	STOPB	0	EBR1	25
26	8J8U	8	0	0	2	0	0	0	0	255	26	X	-	-	-	-	-	X	X	26	X	X	-	0	0	STOPB	0	EBT1	26
27	5J9U	5					0	0	0	255	27	X	X	-	-	-	-	X	X	27	X	X	-			NORM			27
28	7J9L	7					0	0	0	255	28	X	X	-	-	-	-	X	X	28	X	X	-			NORM			28
29	2I11U	2	0	0	2	0	0	0	0	255	29	X	-	-	-	-	-	X	X	29	X	X	-	0	0	STOPB	0		29
30	4I11L	4	0	15	2	0	0	0	0	255	30	X	-	-	-	-	-	X	X	30	X	X	-	0	0	STOPB	0		30
31	6J11U	6			2		0	0	0	255	31	X	-	-	-	-	-	X	X	31	X	X	-			STOPB			31
32	8J11L	8		15	2		0	0	0	255	32	X	-	-	-	-	-	X	X	32	X	X	-			STOPB			32
33	1I1L	1	0	0	0	0	0	0	0	255	33	X	X	-	-	-	-	X	X	33	X	X	-	0	0	NORM	0	NBL2	33
34	2I4L	2			2		0	0	0	255	34	X	-	-	-	-	-	X	X	34	X	X	-			STOPB		SBT2	34
35	3I5L	8	0	0	0	0	0	0	0	255	35	X	X	-	-	-	-	X	X	35	X	X	-	0	0	NORM	0	EBL2	35
36	4I8L	4			2		0	0	0	255	36	X	-	-	-	-	-	X	X	36	X	X	-			STOPB			36
37	5J1L	5	0	0	0	0	0	0	0	255	37	X	X	-	-	-	-	X	X	37	X	X	-	0	0	NORM	0	SBL2	37
38	6J4L	6			2		0	0	0	255	38	X	-	-	-	-	-	X	X	38	X	X	-			STOPB		NBT2	38
39	7J5L	7	0	0	0	0	0	0	0	255	39	X	X	-	-	-	-	X	X	39	X	X	-	0	0	NORM	0		39
40	8J8L	8			2		0	0	0	255	40	X	-	-	-	-	-	X	X	40	X	X	-			STOPB			40
41	4I10U	2					0	0	0	255	41	-	X	-	-	-	-	X	X	41	X	X	-			NORM			41
42	4I10L	2					0	0	0	255	42	-	X	-	-	-	-	X	X	42	X	X	-			NORM			42
43	8J10U	6					0	0	0	255	43	-	X	-	-	-	-	X	X	43	X	X	-			NORM			43
44	8J10L	6					0	0	0	255	44	-	X	-	-	-	-	X	X	44	X	X	-			NORM			44

ID: 284 **Name:** Perrin & Willow

Vol/Occ Period 0 Seconds 5 Minutes

3/18/2020

Alt# 1 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 2 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 3 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 1 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø		0		0		0		0
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Entry	-	-	-	-	-	-	-	-
Enabl SimGap	-	-	-	-	-	-	-	-
Guar Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1		0		0		0		0

Alt# 2 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø		0		0		0		0
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Enrty	-	-	-	-	-	-	-	-
Enabl SimGap	-	-	-	-	-	-	-	-
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1		0		0		0		0

Alt# 3 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø		0		0		0		0
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Enrty	-	-	-	-	-	-	-	-
Enabl SimGap	-	-	-	-	-	-	-	-
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1		0		0		0		0

Alt# 4 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø		0		0		0		0
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Entry	-	-	-	-	-	-	-	-
Enabl SimGap	-	-	-	-	-	-	-	-
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1		0		0		0		0

Alternate Tables [2.6]

Pat#	POpt	PTime	DetGrp	Call/Inh	Olp Off 1	2	3	4	5	6	7	8	ASC	CNA1	Max2	Dia
1	0	0	0	0									0	Off		DFT
2													0	Off		DFT
3	0	0	0	0									0	Off		DFT
4													0	Off		DFT
5	0	0	0	0									0	Off		DFT
6													0	Off		DFT
7	0	0	0	0									0	Off		DFT
8													0	Off		DFT
9	0	0	0	0									0	Off		DFT
10													0	Off		DFT
11	0	0	0	0									0	Off		DFT
12													0	Off		DFT
13	0	0	0	0									0	Off		DFT
14													0	Off		DFT
15	0	0	0	0									0	Off		DFT
16													0	Off		DFT
17	0	0	0	0									0	Off		DFT
18													0	Off		DFT
19	0	0	0	0									0	Off		DFT
20													0	Off		DFT
21	0	0	0	0									0	Off		DFT
22													0	Off		DFT
23	0	0	0	0									0	Off		DFT
24													0	Off		DFT

Time Base Parameters [4.6]

Daylight Savings Time	ENABLE	
Time Base Sync Ref	0	
GMT Offset	-	8
Daylight Savings	**Mon**	**Week**
Spring	3	2
Fall	11	1

NOTE: % and MI parameters are not used and are not shown above.

City of FRESNO

NAME: Perrin & Willow

3/18/2020 **ID:** 284

Annual Schedule [4.3]	Month												Day of Week							Day Plan
1	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1
	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		
2	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	2
	X	X	X	X	X	X	X	X	X	X	X	X							X	
3	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	3
	X	X	X	X	X	X	X	X	X	X	X	X	X							
4	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	4
											X						X			
5	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1
6	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1
7	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1
8	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1
9	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1
10	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1
11	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1
12	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1
13	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1
14	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1
15	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1
16	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1
17	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1
18	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1

	Date																														
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-
5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NAME: **Perrin & Willow**

ID No. **284**

DAY PLANS [4.4]

Plan 1				Plan 2				Plan 3				Plan 4				Plan 5				Plan 6				Plan 7				Plan 8				Plan 9				Plan 10			
Evt	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act
1		**1**	**54**	1		**1**	**54**	1		**1**	**54**	1	**0**	**1**	**54**	1				1				1				1				1				1			
2	0	0	0	2	0	0	0	2	0	0	0	2	**0**	0	0	2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
3				3				3				3	**0**			3				3				3				3				3				3			
4	0	0	0	4	0	0	0	4	0	0	0	4	**0**	0	0	4	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0
5				5				5				5	**0**			5				5				5				5				5				5			
6	0	0	0	6	0	0	0	6	0	0	0	6	**0**	0	0	6	0	0	0	6	0	0	0	6	0	0	0	6	0	0	0	6	0	0	0	6	0	0	0
7				7				7				7	**0**			7				7				7				7				7				7			
8	0	0	0	8	0	0	0	8	0	0	0	8	**0**	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0
9				9				9				9	**0**			9				9				9				9				9				9			
10	0	0	0	10	0	0	0	10	0	0	0	10	**0**	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0

#	Alarm	Ev	Alr
1	Power Up Alarm.	X	X
2	Stop Timing	X	X
3	Cabinet Door Activation	-	-
4	Coordination Failure	X	X
5	External Alarm # 1	-	-
6	External Alarm # 2	-	-
7	External Alarm # 3	-	-
8	External Alarm # 4	-	-
9	Closed Loop Disabled	-	-
10	External Alarm # 5	-	-
11	External Alarm # 6	-	-
12	Manual Control Enable	X	X
13	Coord Free Input	-	-
14	Local Flash Input	X	X
15	CMU/MMU Flash Input	-	-
16	MMU Fault	X	X
17	Cycle Fault	X	-
18	Cycle Failure	X	-
19	Coordination Fault	X	X
20	Controller Fault	X	X
25	EEPROM CRC Fault	X	X
30	Coord Diagnostic Fault	X	X
37	Download Request	X	X
38	Pattern Change	-	-
49	Preempt 1 Input	X	X
50	Preempt 2 Input	X	X
51	Preempt 3 Input	X	X
52	Preempt 4 Input	X	X
53	Preempt 5 Input	X	X
54	Preempt 6 Input	X	X
55	Preempt 7 Input	-	-
56	Preempt 8 Input	-	-
57	Preempt 9 Input	-	-
58	Preempt 10 Input	-	-
59	EEPROM Compare Fault	X	X
60	Coordination Failure	X	X
63	TSP Active Trigger	-	-
73	Controller Access	X	X
81	FIO Changed Status	X	X

#1 Bus Preempt

		Times		Prior. Phases			
Enable	OFF	Min	0	0	0	0	0
Coor+Pre	OFF	Max	0	---TSP---			
Lock Mode	MAX	Lock	0	Headway	0		
No Skip	OFF	Alt Table	0	GrpLock	OFF		
Qjump	OFF	HoldDwell	#N/A	FreeMod	OFF		

#2 Bus Preempt

		Times		Prior. Phases			
Enable	OFF	Min	0	0	0	0	0
Coor+Pre	OFF	Max	0	---TSP---			
Lock Mode	MAX	Lock	0	Headway	0		
No Skip	OFF	Alt Table	0	GrpLock	OFF		
Qjump	OFF	HoldDwell	#N/A	FreeMod	OFF		

#3 Bus Preempt

		Times		Prior. Phases			
Enable	OFF	Min	0	0	0	0	0
Coor+Pre	OFF	Max	0	---TSP---			
Lock Mode	MAX	Lock	0	Headway	0		
No Skip	OFF	Alt Table	0	GrpLock	OFF		
Qjump	OFF	HoldDwell	#N/A	FreeMod	OFF		

#4 Bus Preempt

		Times		Prior. Phases			
Enable	OFF	Min	0	0	0	0	0
Coor+Pre	OFF	Max	0	---TSP---			
Lock Mode	MAX	Lock	0	Headway	0		
No Skip	OFF	Alt Table	0	GrpLock	OFF		
Qjump	OFF	HoldDwell	#N/A	FreeMod	OFF		

I/O INPUT TABLE

	1	2	3	4	5	6	7	8
1	2	16	8	22	3	17	9	23
2	6	20	12	26	198	199	30	31
3	15	1	21	7	27	13	28	14
4	189	189	189	189	4	18	10	24
5	130	134	132	136	200	201	202	203
6	32	5	19	11	25	29	208	207
7	33	34	35	36	37	38	39	40
8	41	42	43	44	189	189	189	189

ACTION Table [4.5]

Act	Pat#	A1	A2	A3	S1	S2	S3	S4	S5	S6	S7	S8	P1	P2
1	1	-	-	-	-	-	-	-	-	-	-	-	0	0
2	2	-	-	-	-	-	-	-	-	-	-	-	0	0
3	3	-	-	-	-	-	-	-	-	-	-	-	0	0
4	4	-	-	-	-	-	-	-	-	-	-	-	0	0
5	5	-	-	-	-	-	-	-	-	-	-	-	0	0
6	6	-	-	-	-	-	-	-	-	-	-	-	0	0
7	7	-	-	-	-	-	-	-	-	-	-	-	0	0
8	8	-	-	-	-	-	-	-	-	-	-	-	0	0
9	9	-	-	-	-	-	-	-	-	-	-	-	0	0
10	10	-	-	-	-	-	-	-	-	-	-	-	0	0
11	11	-	-	-	-	-	-	-	-	-	-	-	0	0
12	12	-	-	-	-	-	-	-	-	-	-	-	0	0
13	13	-	-	-	-	-	-	-	-	-	-	-	0	0
14	14	-	-	-	-	-	-	-	-	-	-	-	0	0
15	15	-	-	-	-	-	-	-	-	-	-	-	0	0
16	0	-	-	-	-	-	-	-	-	-	-	-	0	0
54	254	-	-	-	-	-	-	-	-	-	-	-	0	0
55	0	-	-	-	-	-	-	-	-	-	-	-	0	0

Alarm Parameters [1.6.7.1]

Pattern Events:	ON
Local Txmt Alarms:	OFF
Reassign User Alarm #1 In (5):	0
Reassign User Alarm #2 In (6):	0
Preempt Events:	ON

City of FRESNO

Date Printed
3/18/2020

ID: 284 **Name:** Perrin & Willow

I/O Inputs - 1.8.9.1.5

C-1 PIN	I/O Source	Function	Input Name
39	I1-1	2	Veh Det 2
40	I1-2	16	Veh Det 16
41	I1-3	8	Veh Det 8
42	I1-4	22	Veh Det 22
43	I1-5	3	Veh Det 3
44	I1-6	17	Veh Det 17
45	I1-7	9	Veh Det 9
46	I1-8	23	Veh Det 23
47	I2-1	6	Veh Det 6
48	I2-2	20	Veh Det 20
49	I2-3	12	Veh Det 12
50	I2-4	26	Veh Det 26
51	I2-5	198	Pre 1 In
52	I2-6	199	Pre 2 In
53	I2-7	30	Veh Det 30
54	I2-8	31	Veh Det 31
55	I3-1	15	Veh Det 15
56	I3-2	1	Veh Det 1
57	I3-3	21	Veh Det 21
58	I3-4	7	Veh Det 7
59	I3-5	27	Veh Det 27
60	I3-6	13	Veh Det 13
61	I3-7	28	Veh Det 28
62	I3-8	14	Veh Det 14
63	I4-5	4	Veh Det 4
64	I4-6	18	Veh Det 18
65	I4-7	10	Veh Det 10
66	I4-8	24	Veh Det 24
67	I5-1	130	Ped Call 2
68	I5-2	134	Ped Call 6
69	I5-3	132	Ped Call 4
70	I5-4	136	Ped Call 8
71	I5-5	200	Pre 3 In
72	I5-6	201	Pre 4 In
73	I5-7	202	Pre 5 In
74	I5-8	203	Pre 6 In
75	I6-1	32	Veh Det 32
76	I6-2	5	Veh Det 5
77	I6-3	19	Veh Det 19
78	I6-4	11	Veh Det 11
79	I6-5	25	Veh Det 25
80	I6-6	29	Veh Det 29
81	I6-7	208	Local Flash
82	I6-8	207	Comp StopTm

I/O OUTPUTS - 1.8.9.2.5

C-1 PIN	I/O Source	Function	Output Name
1	Logic Grd		
2	O1-1	14	Red Ch 14
3	O1-2	62	Grn Chan 14
4	O1-3	4	Red Ch 4
5	O1-4	28	Yel Chan 4
6	O1-5	52	Grn Chan 4
7	O1-6	3	Red Ch 3
8	O1-7	27	Yel Chan 3
9	O1-8	51	Grn Chan 3
10	O2-1	13	Red Ch 13
11	O2-2	61	Grn Chan 13
12	O2-3	2	Red Ch 2
13	O2-4	26	Yel Chan 2
14	Logic Grd		
15	O2-5	50	Grn Chan 2
16	O2-6	1	Red Ch 1
17	O2-7	25	Yel Chan 1
18	O2-8	49	Grn Chan 1
19	O3-1	16	Red Ch 16
20	O3-2	64	Grn Chan 16
21	O3-3	8	Red Ch 8
22	O3-4	32	Yel Chan 8
23	O3-5	56	Grn Chan 8
24	O3-6	7	Red Ch 7
25	O3-7	31	Yel Chan 7
26	O3-8	55	Grn Chan 7
27	O4-1	15	Red Ch 15
28	O4-2	63	Grn Chan 15
29	O4-3	6	Red Ch 6
30	O4-4	30	Yel Chan 6
31	O4-5	54	Grn Chan 6
32	O4-6	5	Red Ch 5
33	O4-7	29	Yel Chan 5
34	O4-8	53	Grn Chan 5
35	O5-1	37	Yel Chan 13
36	O5-2	39	Yel Chan 15
37	O5-3	38	Yel Chan 14
38	O5-4	40	Yel Chan 16
100	O5-5	42	Yel Chan 18
101	O5-6	41	Yel Chan 17
102	O5-7	115	Not Used
103	O5-8	114	Watchdog

C-1 PIN	I/O Source	Function	Output Name
83	O6-1	18	Red Ch 18
84	O6-2	66	Grn Chan 18
85	O6-3	12	Red Ch 12
86	O6-4	36	Yel Chan 12
87	O6-5	60	Grn Chan 12
88	O6-6	11	Red Ch 11
89	O6-7	35	Yel Chan 11
90	O6-8	59	Grn Chan 11
91	O7-1	17	Red Ch 17
92	Logic Grd		
93	O7-2	65	Grn Chan 17
94	O7-3	10	Red Ch 10
95	O7-4	34	Yel Chan 10
96	O7-5	58	Grn Chan 10
97	O7-6	9	Red Ch 9
98	O7-7	33	Yel Chan 9
99	O7-8	57	Grn Chan 9

I/O Outputs - 1.8.9.2.5
C-11 OUTPUTS

1	O8-1	115	Not Used
2	O8-2	115	Not Used
3	O8-3	115	Not Used
4	O8-4	115	Not Used

I/O Inputs - 1.8.9.1.5
C-11 INPUTS

15	I7-1	33	Veh Det 33
16	I7-2	34	Veh Det 34
17	I7-3	35	Veh Det 35
18	I7-4	36	Veh Det 36
19	I7-5	37	Veh Det 37
20	I7-6	38	Veh Det 38
21	I7-7	39	Veh Det 39
22	I7-8	40	Veh Det 40
23	I8-1	41	Veh Det 41
24	I8-2	42	Veh Det 42
25	I8-3	43	Veh Det 43
26	I8-4	44	Veh Det 44
27	I8-5	189	Unused
28	I8-6	189	Unused
29	I8-7	189	Unused
30	I8-8	189	Unused

City of FRESNO

ID: 284

NAME: Perrin & Willow

Date Printed: 3/18/2020

ID Number: 284

LOCATION: Perrin & Willow

City of Fresno
332 Cabinet
44 Detector Plus Setup

	DETECTOR ASSIGNMENTS											ISOLATORS		
"I"	I1	I2	I3	I4	I5	I6	I7	I8	I9	I10	I11	I12	I13	I14
UPPER	Ph 1 Call&Ext T2-1&2 C1-56 Det 1 NBL1	Ph 2 Ext T2-5&6 C1-39 Det 2 SB Far	Ph 2 Call&TP3 T2-9&10 C1-63 Det 4 SB Mid	Ph 2 Call&TP3 T4-1&2 C1-47 Det 6 SBT1	Ph 3 Call&Ext T4-5&6 C1-58 Det 7 EBL1	Ph 4 Ext T4-9&10 C1-41 Det 8 WB Far	Ph 4 Call&TP3 T6-1&2 C1-65 Det 10 WB Mid	Ph 4 Call&TP3 T6-5&6 C1-49 Det 12 WBT1	Ph 1 Call&Ext T6-9&10 C1-60 Det 13 NBLt Bk	Ph 2/4 Ext T10-5&6 C11-23 Det 41	Ph 2 Call&Ext T8-1 C1-80 Det 29 BIKE	Ph 2 PPB T8-4 C1-67	Ph 6 PPB T8-7 C1-68	FLASH SENSE T8-10 C1-81
LOWER	Ph 1 Call&Ext T2-3&4 C11-15 Det 33 NBL2	Ph 2 Call&TP3 T2-7&8 C1-43 Det 3 SB Bk	Ph 2 Call&Ext T2-11&12 C1-76 Det 5 SBRt	Ph 2 Call&TP3 T4-3&4 C11-16 Det 34 SBT2	Ph 3 Call&Ext T4-7&8 C11-17 Det 35 EBL2	Ph 4 Call&TP3 T4-11&12 C1-45 Det 9 WB Bk	Ph 4 Call&Ext T6-3&4 C1-78 Det 11 WBRt	Ph 4 Call&TP3 T6-7&8 C11-18 Det 36 WBT2	Ph 3 Call&Ext T6-11&12 C1-62 Det 14 EBLt Bk	Ph 2/4 Ext T10-7&8 C11-24 Det 42	Ph 4 Call&Ext T8-2 C1-53 Det 30 BIKE	Ph 4 PPB T8-5 C1-69	Ph 8 PPB T8-8 C1-70	STOP TIMING T8-11 C1-82
"J"	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	J13	J14
UPPER	Ph 5 Call&Ext T3-1&2 C1-55 Det 15 SBL1	Ph 6 Ext T3-5&6 C1-40 Det 16 NB Far	Ph 6 Call&TP3 T3-9&10 C1-64 Det 18 NB Mid	Ph 6 Call&TP3 T5-1&2 C1-48 Det 20 NBT1	Ph 7 Call&Ext T5-5&6 C1-57 Det 21 WBL1	Ph 8 Ext T5-9&10 C1-42 Det 22 EB Far	Ph 8 Call&TP3 T7-1&2 C1-66 Det 24 EB Mid	Ph 8 Call&TP3 T7-5&6 C1-50 Det 26 EBT1	Ph 5 Call&Ext T7-9&10 C1-59 Det 27 SBLt Bk	Ph 6/8 Ext T10-9&10 C11-25 Det 43	Ph 6 Call&Ext T9-1 C1-54 Det 31 BIKE	EMER A Ph 2 + 5 T9-4 C1-71	EMER B Ph 4 + 7 T9-5 C1-72	RR1 FLASH T9-10 C1-51
LOWER	Ph 5 Call&Ext T3-3&4 C11-19 Det 37 SBL2	Ph 6 Call&TP3 T3-7&8 C1-44 Det 17 NB Bk	Ph 6 Call&Ext T3-11&12 C1-77 Det 19 NBRt	Ph 6 Call&TP3 T5-3&4 C11-20 Det 38 NBT2	Ph 7 Call&Ext T5-7&8 C11-21 Det 39 WBL2	Ph 8 Call&TP3 T5-11&12 C1-46 Det 23 EB Bk	Ph 8 Call&Ext T7-3&4 C1-79 Det 25 EBRt	Ph 8 Call&TP3 T7-7&8 C11-22 Det 40 EBT2	Ph 7 Call&Ext T7-11&12 C1-61 Det 28 WBLt Bk	Ph 6/8 EXT T10-11&12 C11-26 Det 44	Ph 8 Call&Ext T9-2 C1-75 Det 32 BIKE	EMER C Ph 1 + 6 T9-7 C1-73	EMER D Ph 3 + 8 T9-8 C1-74	RR2 LTD OP T9-11 C1-52

COMMENTS:

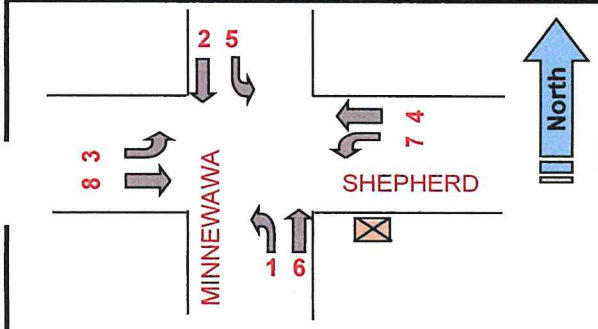
TIMING UPDATES AND MODIFICATIONS

ID: 284 **NAME:** Perrin & Willow

DATE	CHANGES MADE	ATMS or CABINET	BY
3/18/2020	Reassign DET 14 from P3 to P8		CS
		Page 13	

CITY of CLOVIS

Movement	NL	ST	EL	WT	SL	NT	WL	ET
Times [1.1.1]	1	2	3	4	5	6	7	8
Min Green	11	8	11	9	11	8	11	9
Gap, Ext	2	4	2	4.4	2	3.2	2	4.2
Max 1	25	40	25	40	25	40	25	40
Max 2	0		0			0		0
Yel Clearance	3.0	5.0	3.0	5.0	3.0	5.0	3.0	5.0
Red Clearance	1	1	1	1	1	1	1	1
Walk	0	7	0	7		7		7
Ped Clearance	0	25	0	23		25		25
Red Revert	1	1	1	1	1	1	1	1
Add Initial	0		0			0		0
Max Initial	0		0			0		0
Time B4 Reduct	0	19	0	18		19		18
Cars B4 Reduct	0		0			0		0
Time To Reduce	0	11	0	12		11		12
Reduce By	0		0			0		0
Min Gap	2	2.5	2	2.8	2	2	2	2.6
DyMaxLim	31	46	31	46	31	46	31	46
Max Step	6	6	6	6	6	6	6	6
Options [1.1.2]	1	2	3	4	5	6	7	8
Enable	X	X	X	X	X	X	X	X
Min Recall								
Max Recall								
Ped Recall								
Soft Recall				X				X
Lock Calls								
Auto Flash Entry								
Auto Flash Exit								
Dual Entry		X		X		X		X
Enable Simul Gap	X	X	X	X	X	X	X	X
Gaurantee Passage								
Rest In Walk								
Conditon Service								
Non-Actuated 1								
Non-Actuated 2								
Add Init Calc								



Phase Options+ [1.1.3]

Options+	1	2	3	4	5	6	7	8
Reservice								
PedClr Thru Yel								
SkipRed-NoCall								
Red Rest								
Max II								
*Max III								
Max Inhibit								
Ped Delay								
Red Rest on Gap								
Conflicting Phase	0	0	0	0	0	0	0	0
Grn/Ped Delay								
Omit Yel, Yel P	0	0	0	0	0	0	0	0
Ped Out/Olp Ped								
StartYel, Next P	0	0	0	0	0	0	0	0
*StartupVehCall	1	2	3	4	5	6	7	8
*StartupPedCall								

Phase Concurrency [1.1.4]

Phase	Ring	StartUp	Concurrent Phases			
1	1	RED	5	6	0	0
2	1	RED	5	6	0	0
3	1	RED	7	8	0	0
4	1	GREEN	7	8	0	0
5	2	RED	1	2	0	0
6	2	RED	1	2	0	0
7	2	RED	3	4	0	0
8	2	GREEN	3	4	0	0
9	0	RED	0	0	0	0
10	0	RED	0	0	0	0
11	0	RED	0	0	0	0
12	0	RED	0	0	0	0

Comm Ports [6.6]

Channel	Port	Echo	Mode
Async 1	SP1	NONE	0
Async 2	SP2	NONE	0
Async 3	SP8	NONE	0
Async 4	OFF	NONE	0
Sync 1	SP5S		
Sync 2	OFF		
TS2CVM	NONE		
Opticom	NONE		
GPS	NONE		

Unit Params [1.2.1]

*Screen Size	8	Metric	OFF
Startup Flash	0	Red Revert	1
MCE Timeout	0	Auto Ped Clear	OFF
Loc Flsh Start	RSt	Display Time	30
Yellow < 3"	OFF	Tone Disable	ON
Allow Skip Yel	OFF	AudioPedTime	OFF
Start Red Tm	6	Phase Mode	STD8
*Startup Calls	OFF	CNA FreeTime	0
TOD Dimming	OFF	Diamond Mode	4Ph
ST over Prmpt	OFF	Free Ring Seq	1
Feature Profile	1	IO Mode	USER
Mx Seek TrkTm	0	Max Cyc Timer	0
Mx Seek Dwell	0	CycFlt Actn	ALARM
Prmpt/Ext Coor	EXT	Clrnc Decide	OFF
Aux Switch	STOPTM	LPAlt Srs	OFF
*InhFYA Red St	Off	*SecurityDelay	0

* - 76.12B or newer

Times+ [1.1.7]

	1	2	3	4	5	6	7	8
Walk2	0	0	0	0	0	0	0	0
BikeClr	0	0	0	0	0	0	0	0
GrnFlash	0	0	0	0	0	0	0	0
SfClrMn	0	0	0	0	0	0	0	0
SfClrNoFlsh	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

Comm [6.2]

Port	Baud Rate	FCM
1	9600	6
2	9600	6
3	1200	0
4	1200	0

Comm [6.5]

					Host IPs			
IP Address:	10	128	1	51	ATMS			
Mask:	255	255	255	0	172	26	17	230
Gateway:	10	128	1	254	SG			
Port #:	5051				0	0	0	0

Phase Seq. (2 ring) Chart [1.2.4]

Seq #	Ring	Phases					
1	1	1	2	3	4	0	0
	2	5	6	7	8	0	0
2	1	1	2	3	4	0	0
	2	6	5	7	8	0	0
3	1	2	1	3	4	0	0
	2	5	6	7	8	0	0
4	1	2	1	3	4		0
	2	6	5	7	8		0
5	1	1	2	3	4	0	0
	2	5	6	8	7	0	0
6	1	1	2	3	4	0	0
	2	6	5	8	7	0	0
7	1	2	1	3	4	0	0
	2	5	6	8	7	0	0
8	1	2	1	3	4	0	0
	2	6	5	8	7	0	0
9	1	1	2	4	3	0	0
	2	5	6	7	8	0	0
10	1	1	2	4	3	0	0
	2	6	5	7	8	0	0
11	1	2	1	4	3	0	0
	2	5	6	7	8	0	0
12	1	2	1	4	3	0	0
	2	6	5	7	8	0	0
13	1	1	2	4	3		0
	2	5	6	8	7		0
14	1	1	2	4	3	0	0
	2	6	5	8	7	0	0
15	1	2	1	4	3	0	0
	2	5	6	8	7	0	0
16	1	2	1	4	3	0	0
	2	6	5	8	7	0	0

Advance Warning [1.1.9]

	Ph	Tm
Aux Out #1	0	0
Aux Out #2	0	0

NAME: MINNEWAWA @ SHEPHERD **ID:** 299 **Configuration:** Standard File

V76.12
ATMS 1.5.45.263

Prepared by:	T. Barker	Date Installed / By:	1/10/2022
Checked by:	T. Barker	Date Superseded:	

Date Printed: 1/10/22

[2.1] Coord Modes+

Test OpMode	0
Correction	LONG
Maximum	MAX INH
Force Mode	FIXED
Flash Mode	CHANNEL

Coord Modes+ (Page 2)

FreeonSeqCh	ON
Closed Loop	OFF
External	OFF
Latch Sec Frc	OFF
Stop-in-Walk	OFF
Ped Recycle	P1256_INH
Expand Splt	OFF
Easy Float	OFF
Auto Reset	ON
NTCIP Yield	+ 0

Leave Walk

Before	TIMED
After	TIMED

Intersection Name: MINNEWAWA @ SHEPHERD

CITY OF CLOVIS

ID: 293

Date Printed: 12/2/2019

[2.4] Patterns

Pat#	Cyc	Off-Set	Split	Seq
1	0	0	1	1
2	0	0	2	1
3	0	0	3	1
4	0	0	4	1
5	0	0	5	1
6	0	0	6	1
7		0	7	1
8	0	0	8	1
9	0	0	9	1
10	0	0	10	1
30	0	0	0	1
31	0	0	0	1
32	0	0	0	1

[2.7.1-24] Splits

Split	[2.7]	1	2	3	4	5	6	7	8
1	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
2	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
3	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
4	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
5	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
6	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
7	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
8	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
9	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
10	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
30	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
31	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
32	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON

[2.5] Transition

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	Ret Hold	Flt	Veh	Ped	FRC MODE
1	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
2	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
3	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
4	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
5	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
6	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
7	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
8	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
9	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
10	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
30		17	0	0	0	0	0	0	BegGRN	-	-	-	-	
31		17	0	0	0	0	0	0	BegGRN	-	-	-	-	
32		17	0	0	0	0	0	0	BegGRN	-	-	-	-	

Overlap 1-8 Program Parms & Parm+ [1.5.2.1] [1.5.2.8]

1	Included Ø		NORMAL	
	Modifier Ø		Grn	
	Conflict Ø		Yel	3
A	Conflict Olap		Red	1
	Conflict Ped		LG	OFF
2	Included Ø		NORMAL	
	Modifier Ø		Grn	
	Conflict Ø		Yel	3
B	Conflict Olap		Red	1
	Conflict Ped		LG	OFF
3	Included Ø		NORMAL	
	Modifier Ø		Grn	
	Conflict Ø		Yel	3
C	Conflict Olap		Red	1
	Conflict Ped		LG	OFF
4	Included Ø		NORMAL	
	Modifier Ø		Grn	
	Conflict Ø		Yel	3
D	Conflict Olap		Red	1
	Conflict Ped		LG	OFF
5	Included Ø		NORMAL	
	Modifier Ø		Grn	
	Conflict Ø		Yel	3
E	Conflict Olap		Red	1
	Conflict Ped		LG	OFF
6	Included Ø		NORMAL	
	Modifier Ø		Grn	
	Conflict Ø		Yel	3
F	Conflict Olap		Red	1
	Conflict Ped		LG	OFF
7	Included Ø		NORMAL	
	Modifier Ø		Grn	
	Conflict Ø		Yel	3
G	Conflict Olap		Red	1
	Conflict Ped		LG	OFF
8	Included Ø		NORMAL	
	Modifier Ø		Grn	
	Conflict Ø		Yel	3
H	Conflict Olap		Red	1
	Conflict Ped		LG	OFF

Unit Parameters [1.2.1]

Stop Timer Over Preempt	OFF
Preempt or Ext Output	EXT
Max Seek Track Time	0
Max Seek Dwell Time	0

Channel Parameters [1.8.3]

Pre Invert Rail Input	OFF

Preemption Options+ [3.Pre #.6]

Pre #	Enable	Type	Output	Pattern	Skip	Co+Pre	Flash	Max/Min
1	ON	RAIL	TS2		OFF	OFF	OFF	MAX
2	OFF	EMERG	TS2		OFF	OFF	OFF	MAX
3	ON	EMERG	TS2		OFF	OFF	OFF	MAX
4	ON	EMERG	TS2		OFF	OFF	OFF	MAX
5	ON	EMERG	TS2		OFF	OFF	OFF	MAX
6	ON	EMERG	TS2		OFF	OFF	OFF	MAX

Preemption Times [3.#.1]

Pre #	Delay	MinDura	MaxPres	MinGrn	MinWlk	PedClr	Track Grn	Min Dwell
1								
2								
3					4	19		
4					4	18		
5					4	19		
6					4	20		

Preemption, Options [3.#.3]

Pre #	Lock Input	Over-ride Auto Flash	Over-ride Higher Preempt#	Flash Dwell	Link
1	ON	ON	OFF	ON	
2	OFF	ON	OFF	OFF	
3	OFF	OFF	OFF	OFF	
4	OFF	OFF	OFF	OFF	
5	OFF	OFF	OFF	OFF	
6	OFF	OFF	OFF	OFF	

Preemption, Times+ [3.#.4]

Pre No.	Extend Dwell	Return Max	Ped Clr	Yel	Red
1					
2					
3					
4					
5					
6					

Pre 1 = RR1
Pre 2 = RR2
Pre 3 = EVA
Pre 4 = EVB
Pre 5 = EVC
Pre 6 = EVD

Phases [3.#.2] - set the Dwell Phases

Pre #	Column	1	2	3	4	5	6	7	8	9	10
1	Dwell Veh										
	Peds										
2	Dwell Veh										
	Peds										
3	Dwell Veh	2	5								
	Peds										
4	Dwell Veh	4	7								
	Peds										
5	Dwell Veh	1	6								
	Peds										
6	Dwell Veh	3	8								
	Peds										

Phases [3.#.2] - Trk Veh

Pre #	Phases
1	
2	
3	
4	
5	
6	

Exit Phases [3.#.2]

No.	Exit Phase			
1	4	8		
2				
3	2	6		
4	4	8		
5	2	6		
6	4	8		

Overlaps+ [3.#.5]

Pre #		Preempt Overlaps +
1	Track	
	Dwell	
2	Track	
	Dwell	
3	Track	
	Dwell	
4	Track	
	Dwell	
5	Track	
	Dwell	
6	Track	
	Dwell	

Low Priority Preempts [3.X; where X = 7 thru 10]

Pre #	Enb	C+P	Lock	NoSkip	Qjump	Times: Alt Tbl	Min	Max	Lock	Priorty Phases			
7	OFF	OFF	MAX	OFF	OFF		0	0	0	0	0	0	0
8	OFF	OFF	MAX	OFF	OFF		0	0	0	0	0	0	0
9	OFF	OFF	MAX	OFF	OFF		0	0	0	0	0	0	0
10	OFF	OFF	MAX	OFF	OFF		0	0	0	0	0	0	0

Advance Times [3.x.8]

	1	2	3	4	5	6
YelChng	0	0	0	0	0	0
RedClr	0	0	0	0	0	0
TrkYelChng	0	0	0	0	0	0
TrkRedClr	0	0	0	0	0	0

OLP GENERAL PARAMETERS [1.5.1]

Lock Inhibit	OFF
Conflict Lock Enable	OFF
Parent P Clearance	OFF
Xtra Incl Phases	OFF
InhibitLockInterval	Always

PREEMPTION NOTE: Each preemption has it's own set of menus. To access each menu :

a. Press "3" for preemption

b. Then enter "Preempt number" (1 through 6 and shown as "#" in Schedules above)

c. Then enter "number of Menu item" you want to access (*1-Times, 2-Phases, 3-Options, 4-Times+, 5-Overlaps+ or 6-Options+*)

d. Once in an above menu push Escape once to go back to main preempton menu.

City of CLOVIS

Name: MINNEWAWA @ SHEP

ID: 293

Date Printed: 12/2/2019

CHANNEL SETTINGS [1.8] plus UNIT PARAMETERS [1.2.1]

CHANNEL SETTINGS [1.8.1]

Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Phase / Olap #	1	2	3	4	5	6	7	8	1	2	3	4	2	4	6	8
Channel Type	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	OLP	OLP	OLP	OLP	PED	PED	PED	PED
Channel Flash	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	DRK	DRK	DRK	DRK
Flash 1-2 Hertz		X		X		X		X								
	Page 1								Page 2							

Chan Settings [1.8.2]

17	18	19	20	21	22	23	24
VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH
DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK

CHANNEL PARMETERS [1.8.3]

CH 17-24 Mapping:	DEFAULT
D-Conn Mapping:	NONE
Invert Rail Inputs:	OFF
C1-C11-ABC IO Mode:	USER

CHANNELS+ [1.8.4]

Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Flash Red	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Flash Yellow	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Inh Red Fl in Preempt	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Olap Ovrd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

IO PARAMETERS [1.8.6]

C1-C11-ABC IO Mode:	USER
D-Conn Mapping:	NONE
T & F BIU Mapping	DEFAULT
Invert Rail Inputs:	OFF
EVP Ped Confirm	OFF

City of CLOVIS

I/O LOGIC [1.8.7]

Row#	Result		Function			OP	Function			OP	Function			OP	Timer	
	I/O	Fcn	Inv	I/0	Fcn	Logic	Inv	I/0	Fcn	Logic	Inv	I/0	Fcn	Logic	Dly	Sec
1	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0
2	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0
3	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0
4	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0
5	I	0	-	I	----	0	-	I	___	0	-	I	----	0	DLY	0
6	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0
7	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0
8	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0
9	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0
10	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0

Ped Parms (MM>5>4)

Det#	Call	No Act	Max Pres	Err Cnt
1	0	0	0	0
2	2	0	5	0
3	0	0	0	0
4	4	0	5	0
5	0	0	0	0
6	6	0	5	0
7	0	0	0	0
8	8	0	5	0

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Veh Par 1-32 [5.1]											Vehicle Options 1-32 [5.2]									Parameters+ 1-32 [5.3]								Info Only		
Det #	Input Slot	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time	Det #	Call	Ext	Que	Add Init	Red Lock	Yell Lock	occ	vol	Det #	Occupancy G	Occupancy Y	Occupancy R	Delay 1	Delay 2	Type	Src	Dir	Type	Det #
1	1I1U	1					0	0	0	255	1	X	X	-	-	X	-	-	X	1	-	-	-			NORM		NBLT Front		1
2	2I2U	2	0	0.0	1.4	0	0	0	0	255	2	X	X	-	-	-	-	-	X	2	-	-	-	0	0	NORM	0	SB INT		2
3	2I2L	2	0	0.0	0.0	0	0	0	0	255	3	X	X	-	-	-	-	-	X	3	-	-	-	0	0	NORM	0	SB FAR		3
4	2I3U	2	0	10.0	0.0	0	0	0	0	255	4	X	X	-	-	-	-	-	X	4	-	-	-	0	0	NORM	0	SBRT		4
5	2I3L	2	0	0.0	2.0	0	0	0	0	255	5	X	X	-	-	-	-	-	-	5	-	-	-	0	0	NORM	0	SB BIKE		5
6	2I4U	2	0	0.0	2.0	20	0	0	0	255	6	X	-	X	-	-	-	-	X	6	-	-	-	0	0	NORM	0	SB Front		6
7	3I5U	3					0	0	0	255	7	X	X	-	-	X	-	-	X	7	-	-	-			NORM		EBLT Front		7
8	4I6U	4	0	0.0	1.5	0	0	0	0	255	8	X	X	-	-	-	-	-	X	8	-	-	-	0	0	NORM	0	WB INT		8
9	4I6L	4	0	0.0	0.0	0	0	0	0	255	9	X	X	-	-	-	-	-	X	9	-	-	-	0	0	NORM	0	WB FAR		9
10	4I7U	4	0	10.0	0.0	0	0	0	0	255	10	X	X	-	-	-	-	-	X	10	-	-	-	0	0	NORM	0	WBRT		10
11	4I7L	4			2.0		0	0	0	255	11	X	X	-	-	X	-	-	-	11	-	-	-			NORM		WB BIKE		11
12	4I8U	4			2.0	20	0	0	0	255	12	X	-	X	-	-	-	-	X	12	-	-	-			NORM		WB Front		[illegible]
13	1I9U	1	0	0.0	0.0	0	0	0	0	255	13	X	X	-	-	X	-	-	-	13	-	-	-			NORM		NBLT Loops		13
14	3I9L	3	0	0.0	0.0	0	0	0	0	255	14	X	X	-	-	X	-	-	-	14	-	-	-			NORM		EBLT Loops		14
15	5J1U	5	0	0.0	0.0	0	0	0	0	255	15	X	X	-	-	X	-	-	X	15	-	-	-			NORM		SBLT Front		15
16	6J2U	6			1.2		0	0	0	255	16	-	X	-	-	-	-	-	X	16	-	-	-			NORM		NB INT		16
17	6J2L	6			0.7		0	0	0	255	17	X	X	-	-	-	-	-	X	17	-	-	-			NORM		NB FAR		17
18	6J3U	6		10.0			0	0	0	255	18	X	X	-	-	-	-	-	X	18	-	-	-			NORM		NBRT		18
19	6J3L	6			2.0		0	0	0	255	19	X	X	-	-	X	-	-	-	19	-	-	-			NORM		NB BIKE		19
20	6J4U	6			2.0	20	0	0	0	255	20	X	-	X	-	-	-	-	X	20	-	-	-			NORM		NB Front		20
21	7J5U	7					0	0	0	255	21	X	X	-	-	X	-	-	X	21	-	-	-			NORM		WBLT Front		21
22	8J6U	8	0	0.0	1.4	0	0	0	0	255	22	X	X	-	-	-	-	-	X	22	-	-	-	0	0	NORM	0	EB INT		22
23	8J6L	8	0	0.0	0.1	0	0	0	0	255	23	X	X	-	-	-	-	-	X	23	-	-	-	0	0	NORM	0	EB FAR		23
24	8J7U	8	0	10.0	0.0	0	0	0	0	255	24	X	X	-	-	-	-	-	X	24	-	-	-	0	0	NORM	0	EBRT		24
25	8J7L	8	0	0.0	2.0	20	0	0	0	255	25	X	-	X	-	-	-	-	-	25	-	-	-	0	0	NORM	0	EB Back		25
26	8J8U	8	0	0.0	2.0	20	0	0	0	255	26	X	-	X	-	-	-	-	X	26	-	-	-	0	0	NORM	0	EB #1 Front		26
27	5J9U	5					0	0	0	255	27	X	X	-	-	X	-	-	-	27	-	-	-			NORM		SBLT Loops		27
28	7J9L	7					0	0	0	255	28	X	X	-	-	X	-	-	-	28	-	-	-			NORM		WBLT Loops		28
29	2I11U	2	0	0.0	0.0	0	0	0	0	255	29	-	-	-	-	-	-	-	-	29	-	-	-	0	0	BIKE	0	Not in Use		[illegible]
30	4I11L	4	0	0.0	0.0	0	0	0	0	255	30	-	-	-	-	-	-	-	-	30	-	-	-	0	0	BIKE	0	Not in Use		[illegible]
31	6J11U	6					0	0	0	255	31	-	-	-	-	-	-	-	-	31	-	-	-			BIKE		Not in Use		31
32	8J11L	8					0	0	0	255	32	-	-	-	-	-	-	-	-	32	-	-	-			BIKE		Not in Use		32
33	1I1L	1	0	0.0	0.0	0	0	0	0	255	33	X	X	-	-	X	-	-	X	33	-	-	-	0	0	NORM	0	Not in Use		33
34	2I4L	2			2.0	20	0	0	0	255	34	X	-	X	-	-	-	-	-	34	-	-	-			NORM		SB Back		34
35	3I5L	3	0	0	0.0	0	0	0	0	255	35	X	X	-	-	X	-	-	X	35	-	-	-	0	0	NORM	0	Not in Use		35
36	4I8L	4			2.0	20	0	0	0	255	36	X	-	X	-	-	-	-	-	36	-	-	-			NORM		WB Back		36
37	5J1L	5	0	0	0.0	0	0	0	0	255	37	X	X	-	-	X	-	-	X	37	-	-	-	0	0	NORM	0	Not in Use		37
38	6J4L	6			2.0	20	0	0	0	255	38	X	-	X	-	-	-	-	X	38	-	-	-			NORM		NB Back		38
39	7J5L	7	0	0	0.0	0	0	0	0	255	39	X	X	-	-	X	-	-	X	39	-	-	-	0	0	NORM	0	Not in Use		39
40	8J8L	8			2.0	20	0	0	0	255	40	X	-	X	-	-	-	-	X	40	-	-	-			NORM		EB #2 Front		40
41	4I10U	4					0	0	0	255	41	-	X	-	-	-	-	-	-	41	-	-	-			NORM		Not in Use		41
42	4I10L	4					0	0	0	255	42	-	X	-	-	-	-	-	-	42	-	-	-			NORM		Not in Use		42
43	8J10U	8					0	0	0	255	43	-	X	-	-	-	-	-	-	43	-	-	-			NORM		Not in Use		43
44	8J10L	8					0	0	0	255	44	-	X	-	-	-	-	-	-	44	-	-	-			NORM		Not in Use		44

ID: 299 **Name:** MINNEWAWA @ SHEPHERD

Vol/Occ Period 0 Seconds / 15 Minutes

1/10/2022

Alt# 1 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 2 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 3 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 1 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø	1	2	3	4	5	6	7	8
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Entry	-	-	-	-	-	-	-	-
Enabl SimGap	X	X	X	X	X	X	X	X
Guar Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	X	X	X	X	X	X	X	X
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1								
Conflicting Ø2								

Alt# 2 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø								
Lock Calls	X	X	X	X	X	X	X	X
Soft Recall	-	-	-	-	-	-	-	-
Dual Enrty	-	-	-	-	-	-	-	-
Enabl SimGap	X	X	X	X	X	X	X	X
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1								
Conflicting Ø2								

Alt# 3 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø								
Lock Calls	X	X	X	X	X	X	X	X
Soft Recall	-	-	-	-	-	-	-	-
Dual Enrty	-	-	-	-	-	-	-	-
Enabl SimGap	X	X	X	X	X	X	X	X
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1								
Conflicting Ø2								

Alt# 4 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø								
Lock Calls	X	X	X	X	X	X	X	X
Soft Recall	-	-	-	-	-	-	-	-
Dual Entry	-	-	-	-	-	-	-	-
Enabl SimGap	X	X	X	X	X	X	X	X
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1								
Conflicting Ø2								

Alternate Tables [2.6]

Pat#	POpt	PTime	DetGrp	Call/Inh	Olp Off 1 2 3 4 5 6 7 8	ASC	CNA1	Max2	Dia
1						0	Off		DFT
2						0	Off		DFT
3						0	Off		DFT
4						0	Off		DFT
5						0	Off		DFT
6						0	Off		DFT
7						0	Off		DFT
8						0	Off		DFT
9						0	Off		DFT
10	1					0	Off		DFT
11						0	Off		DFT
12						0	Off		DFT
13						0	Off		DFT
14						0	Off		DFT
15						0	Off		DFT
16						0	Off		DFT
17						0	Off		DFT
18						0	Off		DFT
19						0	Off		DFT
20						0	Off		DFT
21						0	Off		DFT
22						0	Off		DFT
23						0	Off		DFT
24						0	Off		DFT

Time Base Parameters [4.6]

Daylight Savings Time	DISABLE	
Time Base Sync Ref	0	
GMT Offset	-	0
Daylight Savings	**Mon**	**Week**
Spring	3	2
Fall	11	1

City of CLOVIS

NAME: MINNEWAWA @ SHEPHERD

12/2/2019 **ID:** 293

Annual Schedule [4.3]

	Month												Day of Week							Date																						Day	Link
	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Plan	To
1	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	0
2	X	X	X	X	X	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2	0
3	X	X	X	X	X	X	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3	0
4																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0
5																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0
6																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0
7																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0
8																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0
9																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0
10																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0
11																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0
12																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0

DAY PLANS [4.4]

Plan 1

Evt	Hour	Min	Act
1		1	10
2	5	30	54
3	6	30	54
4	9		54
5	14	45	54
6	19		54
7	23		10
8			

Plan 2

Evt	Hour	Min	Act
1		1	10
2	5	30	10
3	6	30	54
4	9		54
5	14	45	54
6	19		54
7	23		10
8			

Plan 3

Evt	Hour	Min	Act
1		1	10
2	5	30	10
3	6	30	10
4	7		54
5	14	45	54
6	19		54
7	22		10
8			

Plan 4

Evt	Hour	Min	Act
1			
2			
3			
4			
5			
6			
7			
8			

Plan 5

Evt	Hr	Min	Act
1			
2			
3			
4			
5			
6			
7			
8			

Plan 6

Evt	Hour	Min	Act
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0

Plan 7

Evt	Hour	Min	Act
1			
2			
3			
4			
5			
6			
7			
8			

Plan 8

Evt	Hour	Min	Act
1			
2			
3			
4			
5			
6			
7			
8			

Plan 9

Evt	Hour	Min	Act
1			
2			
3			
4			
5			
6			
7			
8			

Plan 10

Evt	Hour	Min	Act
1			
2			
3			
4			
5			
6			
7			
8			

Plan 11

Evt	Hr	Min	Act
1			
2			
3			
4			
5			
6			
7			
8			

Plan 12

Evt	Hour	Min	Act
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0

Comments:

Minute Table [4.5]

Act	Pat#	A1	A2	A3	S1	S2	S3	S4	S5	S6	S7	S8	P1	P2
1	1	-	-	-	-	-	-	-	-	-	-	-	0	0
2	2	-	-	-	-	-	-	-	-	-	-	-	0	0
3	3	-	-	-	-	-	-	-	-	-	-	-	0	0
4	4	-	-	-	-	-	-	-	-	-	-	-	0	0
5	5	-	-	-	-	-	-	-	-	-	-	-	0	0
6	6	-	-	-	-	-	-	-	-	-	-	-	0	0
7	7	-	-	-	-	-	-	-	-	-	-	-	0	0
8	8	-	-	-	-	-	-	-	-	-	-	-	0	0
9	9	-	-	-	-	-	-	-	-	-	-	-	0	0
10	10	-	-	-	-	-	-	-	-	-	-	-	0	0
11	0	-	-	-	-	-	-	-	-	-	-	-	0	0
12	0	-	-	-	-	-	-	-	-	-	-	-	0	0
13	0	-	-	-	-	-	-	-	-	-	-	-	0	0
14	0	-	-	-	-	-	-	-	-	-	-	-	0	0
15	0	-	-	-	-	-	-	-	-	-	-	-	0	0
16	0	-	-	-	-	-	-	-	-	-	-	-	0	0
54	254	-	-	-	-	-	-	-	-	-	-	-	0	0
55	255	-	-	-	-	-	-	-	-	-	-	-	0	0

City of CLOVIS

Name: MINNEWAWA @ SHEPHERD

ID: 293

Date Printed: 12/2/2019

#	Alarm	Ev	Alr
1	Power Up Alarm.	X	X
2	Stop Timing	X	X
3	Cabinet Door Activation	-	-
4	Coordination Failure	X	X
5	External Alarm # 1	-	-
6	External Alarm # 2	-	-
7	External Alarm # 3	-	-
8	External Alarm # 4	-	-
9	Closed Loop Disabled	-	-
10	External Alarm # 5	-	-
11	External Alarm # 6	-	-
12	Manual Control Enable	X	X
13	Coord Free Input	-	-
14	Local Flash Input	X	X
15	CMU/MMU Flash Input	-	-
16	MMU Fault	-	-
17	Cycle Fault	X	X
18	Cycle Failure	X	X
19	Coordination Fault	X	X
20	Controller Fault	X	X
21	Detector SDLC Fault	-	-
22	MMU SDLC Fault	-	-
23	Critical SDLC Fault	-	-
24	SDLC Res. Frame Fault	-	-
25	EEPROM CRC Fault	X	X
26	Detector Diagnostic Fault	-	-
27	Detector Fault from SDLC	-	-
28	Queue detector alarm	-	-
29	Ped Fault	-	-
30	Coord Diagnostic Fault	X	X
37	Download Request	X	X
38	Pattern Change	-	-
49	Preempt 1 Input	X	X
50	Preempt 2 Input	-	-
51	Preempt 3 Input	X	X
52	Preempt 4 Input	X	X
53	Preempt 5 Input	X	X
54	Preempt 6 Input	X	X
55	Preempt 7 Input	-	-
56	Preempt 8 Input	-	-
57	Preempt 9 Input	-	-
58	Preempt 10 Input	-	-
59	EEPROM Compare Fault	-	-
60	Coordination Failure	X	X
73	Controller Access	X	X
81	FIO Changed Status	X	X

Call Phases[1.1.5]

Ø	Phases Called By Ø
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	

Redirect Phases[1.1.5]

	From	To	From	To	From	To	From	To
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								

Inhibit Phases[1.1.5]

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Alt Call & Redirect # 1 [1.1.6.3]

Col	Ø	Phases Called By Ø
1	0	
2	0	
3	0	
4	0	
5	0	
6	0	
7	0	
8	0	

	From	To	From	To	From	To	From	To
1								
2								
3								
4								
5								
6								
7								
8								

Alt Inhibit Phases # 1 [1.1.6.3]

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Alt Call & Redirect # 2 [1.1.6.3]

Col	Ø	Phases Called By Ø
1	0	
2	0	
3	0	
4	0	
5	0	
6	0	
7	0	
8	0	

	From	To	From	To	From	To	From	To
1								
2								
3								
4								
5								
6								
7								
8								

Alt Inhibit Phases # 2 [1.1.6.3]

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Alarm Parameters [1.6.7.1]

Preempt Events Enable:	ON
Loc Pattern Event Enable:	ON
Reassign User Alarm #1 In (5):	0
Reassign User Alarm #2 In (6):	0
Local Txmt Alarms:	OFF
Mon/Flash Alarm Delay:	15

City of CLOVIS

Date Printed
12/2/2019

ID: 293 Name: MINNEWAWA @ SHEPHERD

I/O Inputs - 1.8.9.1.5

C-1 PIN	I/O Source	Function	Input Name
39	I1-1	2	Veh Det 2
40	I1-2	16	Veh Det 16
41	I1-3	8	Veh Det 8
42	I1-4	22	Veh Det 22
43	I1-5	3	Veh Det 3
44	I1-6	17	Veh Det 17
45	I1-7	9	Veh Det 9
46	I1-8	23	Veh Det 23
47	I2-1	6	Veh Det 6
48	I2-2	20	Veh Det 20
49	I2-3	12	Veh Det 12
50	I2-4	26	Veh Det 26
51	I2-5	198	Pre 1 In
52	I2-6	199	Pre 2 In
53	I2-7	189	Unused
54	I2-8	189	Unused
55	I3-1	15	Veh Det 15
56	I3-2	1	Veh Det 1
57	I3-3	21	Veh Det 21
58	I3-4	7	Veh Det 7
59	I3-5	27	Veh Det 27
60	I3-6	13	Veh Det 13
61	I3-7	28	Veh Det 28
62	I3-8	14	Veh Det 14
63	I4-5	4	Veh Det 4
64	I4-6	18	Veh Det 18
65	I4-7	10	Veh Det 10
66	I4-8	24	Veh Det 24
67	I5-1	130	Ped Call 2
68	I5-2	134	Ped Call 6
69	I5-3	132	Ped Call 4
70	I5-4	136	Ped Call 8
71	I5-5	200	Pre 3 In
72	I5-6	201	Pre 4 In
73	I5-7	202	Pre 5 In
74	I5-8	203	Pre 6 In
75	I6-1	189	Unused
76	I6-2	5	Veh Det 5
77	I6-3	19	Veh Det 19
78	I6-4	11	Veh Det 11
79	I6-5	25	Veh Det 25
80	I6-6	178	Int Advance
81	I6-7	208	Local Flash
82	I6-8	207	Comp StopTm

I/O OUTPU - 1.8.9.2.5

C-1 PIN	I/O Source	Function	Output Name
1	Logic Grd		
2	O1-1	14	Red Ch 14
3	O1-2	62	Grn Chan 14
4	O1-3	4	Red Ch 4
5	O1-4	28	Yel Chan 4
6	O1-5	52	Grn Chan 4
7	O1-6	3	Red Ch 3
8	O1-7	27	Yel Chan 3
9	O1-8	51	Grn Chan 3
10	O2-1	13	Red Ch 13
11	O2-2	61	Grn Chan 13
12	O2-3	2	Red Ch 2
13	O2-4	26	Yel Chan 2
14	Logic Grd		
15	O2-5	50	Grn Chan 2
16	O2-6	1	Red Ch 1
17	O2-7	25	Yel Chan 1
18	O2-8	49	Grn Chan 1
19	O3-1	16	Red Ch 16
20	O3-2	64	Grn Chan 16
21	O3-3	8	Red Ch 8
22	O3-4	32	Yel Chan 8
23	O3-5	56	Grn Chan 8
24	O3-6	7	Red Ch 7
25	O3-7	31	Yel Chan 7
26	O3-8	55	Grn Chan 7
27	O4-1	15	Red Ch 15
28	O4-2	63	Grn Chan 15
29	O4-3	6	Red Ch 6
30	O4-4	30	Yel Chan 6
31	O4-5	54	Grn Chan 6
32	O4-6	5	Red Ch 5
33	O4-7	29	Yel Chan 5
34	O4-8	53	Grn Chan 5
35	O5-1	37	Yel Chan 13
36	O5-2	39	Yel Chan 15
37	O5-3	38	Yel Chan 14
38	O5-4	40	Yel Chan 16
100	O5-5	42	Yel Chan 18
101	O5-6	41	Yel Chan 17
102	O5-7	115	Not Used
103	O5-8	114	Watchdog

C-1 PIN	I/O Source	Function	Output Name
83	O6-1	18	Red Ch 18
84	O6-2	66	Grn Chan 18
85	O6-3	12	Red Ch 12
86	O6-4	36	Yel Chan 12
87	O6-5	60	Grn Chan 12
88	O6-6	11	Red Ch 11
89	O6-7	35	Yel Chan 11
90	O6-8	59	Grn Chan 11
91	O7-1	17	Red Ch 17
92	Logic Grd		
93	O7-2	65	Grn Chan 17
94	O7-3	10	Red Ch 10
95	O7-4	34	Yel Chan 10
96	O7-5	58	Grn Chan 10
97	O7-6	9	Red Ch 9
98	O7-7	33	Yel Chan 9
99	O7-8	57	Grn Chan 9

I/O Outputs - 1.8.9.2.5
C-11 OUTPUTS

1	O8-1	115	Not Used
2	O8-2	115	Not Used
3	O8-3	115	Not Used
4	O8-4	115	Not Used

I/O Inputs - 1.8.9.1.5
C-11 INPUTS

15	I7-1	33	Veh Det 33
16	I7-2	34	Veh Det 34
17	I7-3	35	Veh Det 35
18	I7-4	36	Veh Det 36
19	I7-5	37	Veh Det 37
20	I7-6	38	Veh Det 38
21	I7-7	39	Veh Det 39
22	I7-8	40	Veh Det 40
23	I8-1	41	Veh Det 41
24	I8-2	42	Veh Det 42
25	I8-3	43	Veh Det 43
26	I8-4	44	Veh Det 44
27	I8-5	189	Unused
28	I8-6	189	Unused
29	I8-7	189	Unused
30	I8-8	189	Unused

City of CLOVIS

ID: 293

NAME: MINNEWAWA @ SHEPHERD

Date Printed: 12/2/2019

ID NUMBER: C0293

LOCATION: MINNEWAWA and SHEPHERD

T. Barker
6/22/2020

CITY OF CLOVIS
332L CABINET
44 DETECTOR SETUP

DETECTOR ASSIGNMENTS

												ISOLATORS		
	NBLT	SB INT	SBRT	SB NEAR	EBLT	WB INT	WBRT	WB NEAR	NBLT			West Leg	East Leg	
I	I1	I2	I3	I4	I5	I6	I7	I8	I9	I10	I11	I12	I13	I14
UPPER	**Ph 1** Call & Ext T2-1 & 2 C1-56 DET 1 RED LOCK FRONT	**Ph 2** Call & Ext T2-5 & 6 C1-39 DET 2 1.4	**Ph 2** Call & Ext T2-9 & 10 C1-63 DET 4 10.0 Sec	**Ph 2** Call & TP3 T4-1 & 2 C1-47 DET 6 Queue 20 2.0 FRONT	**Ph 3** Call & Ext T4-5 & 6 C1-58 DET 7 RED LOCK FRONT	**Ph 4** Call & Ext T4-9 & 10 C1-41 DET 8 1.5	**Ph 4** Call & Ext T6-1 & 2 C1-65 DET 10 10.0 Sec	**Ph 4** Call & TP3 T6-5 & 6 C1-49 DET 12 Queue 20 2.0 FRONT	**Ph 1** Call & Ext T6-9 & 10 C1-60 DET 13 RED LOCK 2nd & 3rd Loop	**Ph 2/4** Ext T10-5 & 6 C11-23 DET 41	**Ph 2** Call & Ext T8-1 C1-80 DET 29	**Ph 2** PED CALL T8-4 C1-67	**Ph 6** PED CALL T8-7 C1-68	**FLASH SENSE** T8-10 C1-81
LOWER	**Ph 1** Call & Ext T2-3 & 4 C11-15 DET 33 RED LOCK 0.0	**Ph 2** Call & Ext T2-7 & 8 C1-43 DET 3 SB FAR	**Ph 2** Call & Ext T2-11 & 12 C1-76 DET 5 RED LOCK 2.0 SB BIKE	**Ph 2** Call & TP3 T4-3 & 4 C11-16 DET 34 Queue 20 2.0 BACK SB NEAR	**Ph 3** Call & Ext T4-7 & 8 C11-17 DET 35 RED LOCK	**Ph 4** Call & Ext T4-11 & 12 C1-45 DET 9 0.0 WB FAR	**Ph 4** Call & Ext T6-3 & 4 C1-78 DET 11 RED LOCK 2.0 WB BIKE	**Ph 4** Call & TP3 T6-7 & 8 C11-18 DET 36 Queue 20 2.0 BACK WB NEAR	**Ph 3** Call & Ext T6- 11 & 12 C1-62 DET 14 RED LOCK 2nd & 3rd Loop EBLT	**Ph 2/4** Ext T10-7 & 8 C11-24 DET 42	**Ph 4** Call & Ext T8-2 C1-53 DET 30	**Ph 4** PED CALL T8-5 C1-69 North Leg	**Ph 8** PED CALL T8-8 C1-70 South Leg	**STOP TIME** T8-11 C1-82

	SBLT	NB INT	NBRT	NB NEAR	WBLT	EB INT	EBRT	EB NEAR	SBLT			SB	WB	UPS
J	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	J13	J14
UPPER	**Ph 5** Call & Ext T3-1 & 2 C1-55 DET 15 RED LOCK FRONT	**Ph 6** Ext T3-5 & 6 C1-40 DET 16 1.2	**Ph 6** Call & Ext T3-9 & 10 C1-64 DET 18 10.0 Sec	**Ph 6** Call & TP3 T5-1 & 2 C1-48 DET 20 QUEUE 20 2.0 FRONT	**Ph 7** Call & Ext T5-5 & 6 C1-57 DET 21 RED LOCK FRONT	**Ph 8** Call & Ext T5- 9 & 10 C1-42 DET 22 1.4	**Ph 8** Call & Ext T7-1 & 2 C1-66 DET 24 10.0 Sec	**Ph 8** Call & TP3 T7- 5 & 6 C1-50 DET 26 QUEUE 20 2.0 #1 LANE	**Ph 5** Call & Ext T7- 9 & 10 C1-59 DET 27 RED LOCK 2nd & 3rd Loop	**Ph 6/8** Ext T10-9 & 10 C11-25 DET 43	**Ph 6** Call & Ext T9-1 T9-4 C1 - 71	**PH 2 & 5** **EVA** **Preempt**	**PH 4 & 7** **EVB** **Preempt** T9-5 C1 - 72	**LOW BATT RAILROAD 1** T9-10 C1-51
LOWER	**Ph 5** Call & Ext T3-3 & 4 C11-19 DET 37 RED LOCK 0.7	**Ph 6** Call & Ext T3-7 & 8 C1-44 DET 17 NB FAR	**Ph 6** Call & Ext T3-11 & 12 C1-77 DET 19 RED LOCK 2.0 BIKE LANE	**Ph 6** Call & TP3 T5-3 & 4 C11-20 DET 38 QUEUE 20 2.0 BACK NB NEAR	**Ph 7** Call & Ext T5-7 & 8 C11-21 DET 39 RED LOCK	**Ph 8** Call & Ext T5-11 & 12 C1-46 DET 23 0.1 EB FAR	**Ph 8** Call & TP3 T7- 3 & 4 C1-79 DET 25 QUEUE 20 2.0 BACK EB NEAR	**Ph 8** Call & TP3 T7- 7 & 8 C11-22 DET 40 QUEUE 20 2.0 #2 LANE EB NEAR	**Ph 7** Call & Ext T7-11 & 12 C1-61 DET 28 RED LOCK 2nd & 3rd Loop WBLT	**Ph 6/8** Ext T10-11 & 12 C11-26 DET 44	**Ph 8** Call & Ext T9-2 T9-7 C1 - 73	**PH 6 & 1** **EVC** **Preempt**	**PH 8** **EVD** **Preempt** T9-8 C1 - 74	**RAILROAD 2** T9-11 C1-52

COMMENTS:

DET #16 (NB INT) - Extend only due to northbound traffic exiting Serena Avenue crossing over the detection zone. "CALL" removed.
DET #19 (NB BIKE LANE) - Just added by CIP 18-08 Minnewawa Street Improvement Project.

222 Loop Amplifier
764 Discriminator
242 Isolator

APPENDIX D

VOLUME DEVELOPMENT WORKSHEETS

LSA

Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
1 Willow Avenue/Behymer Avenue						
NBL	103	0	103	119	0	119
NBT	693	0	693	731	0	731
NBR	31	20	51	54	66	120
SBL	66	2	68	95	8	103
SBT	611	0	611	560	0	560
SBR	54	0	54	40	0	40
EBL	80	0	80	21	0	21
EBT	129	1	130	104	5	109
EBR	182	0	182	121	0	121
WBL	32	58	90	55	39	94
WBT	135	4	139	138	3	141
WBR	135	7	142	119	5	124
North Leg						
Approach	731	2	733	695	8	703
Departure	908	7	915	871	5	876
Total	1,639	9	1,648	1,566	13	1,579
South Leg						
Approach	827	20	847	904	66	970
Departure	825	58	883	736	39	775
Total	1,652	78	1,730	1,640	105	1,745
East Leg						
Approach	302	69	371	312	47	359
Departure	226	23	249	253	79	332
Total	528	92	620	565	126	691
West Leg						
Approach	391	1	392	246	5	251
Departure	292	4	296	297	3	300
Total	683	5	688	543	8	551
Total Approaches						
Approach	2,251	92	2,343	2,157	126	2,283
Departure	2,251	92	2,343	2,157	126	2,283
Total	4,502	184	4,686	4,314	252	4,566

LSA

Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
2 Willow Avenue/Perrin Avenue						
NBL	88	0	88	199	0	199
NBT	685	13	698	855	44	899
NBR	0	0	0	0	0	0
SBL	0	0	0	0	0	0
SBT	758	39	797	671	26	697
SBR	99	19	118	89	13	102
EBL	165	7	172	114	22	136
EBT	0	0	0	0	0	0
EBR	167	0	167	193	0	193
WBL	0	0	0	0	0	0
WBT	0	0	0	0	0	0
WBR	0	0	0	0	0	0
North Leg						
Approach	857	58	915	760	39	799
Departure	850	20	870	969	66	1,035
Total	1,707	78	1,785	1,729	105	1,834
South Leg						
Approach	773	13	786	1,054	44	1,098
Departure	925	39	964	864	26	890
Total	1,698	52	1,750	1,918	70	1,988
East Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
West Leg						
Approach	332	7	339	307	22	329
Departure	187	19	206	288	13	301
Total	519	26	545	595	35	630
Total Approaches						
Approach	1,962	78	2,040	2,121	105	2,226
Departure	1,962	78	2,040	2,121	105	2,226
Total	3,924	156	4,080	4,242	210	4,452

LSA

Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
3 Peach Avenue/Behymer Avenue						
NBL	0	48	48	0	33	33
NBT	0	0	0	0	0	0
NBR	0	0	0	0	0	0
SBL	1	0	1	0	0	0
SBT	0	0	0	0	0	0
SBR	0	0	0	1	0	1
EBL	0	0	0	1	0	1
EBT	224	22	246	241	71	312
EBR	0	2	2	0	8	8
WBL	0	2	2	0	8	8
WBT	344	21	365	293	14	307
WBR	1	0	1	0	0	0
North Leg						
Approach	1	0	1	1	0	1
Departure	1	0	1	1	0	1
Total	2	0	2	2	0	2
South Leg						
Approach	0	48	48	0	33	33
Departure	0	4	4	0	16	16
Total	0	52	52	0	49	49
East Leg						
Approach	345	23	368	293	22	315
Departure	225	22	247	241	71	312
Total	570	45	615	534	93	627
West Leg						
Approach	224	24	248	242	79	321
Departure	344	69	413	294	47	341
Total	568	93	661	536	126	662
Total Approaches						
Approach	570	95	665	536	134	670
Departure	570	95	665	536	134	670
Total	1,140	190	1,330	1,072	268	1,340

LSA

Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
4 Minnewawa Avenue/Behymer Avenue						
NBL	65	20	85	61	66	127
NBT	240	0	240	259	0	259
NBR	19	0	19	30	0	30
SBL	175	0	175	187	0	187
SBT	207	0	207	168	0	168
SBR	3	1	4	2	5	7
EBL	4	4	8	2	3	5
EBT	155	7	162	192	5	197
EBR	67	58	125	43	39	82
WBL	25	0	25	15	0	15
WBT	220	2	222	225	8	233
WBR	253	0	253	179	0	179
EBU	0	21	21	0	14	14
North Leg						
Approach	385	1	386	357	5	362
Departure	497	4	501	440	3	443
Total	882	5	887	797	8	805
South Leg						
Approach	324	20	344	350	66	416
Departure	299	58	357	226	39	265
Total	623	78	701	576	105	681
East Leg						
Approach	498	2	500	419	8	427
Departure	349	7	356	409	5	414
Total	847	9	856	828	13	841
West Leg						
Approach	226	90	316	237	61	298
Departure	288	44	332	288	93	381
Total	514	134	648	525	154	679
Total Approaches						
Approach	1,433	113	1,546	1,363	140	1,503
Departure	1,433	113	1,546	1,363	140	1,503
Total	2,866	226	3,092	2,726	280	3,006

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Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
5 Minnewawa Avenue/Perrin Avenue						
NBL	3	0	3	0	0	0
NBT	309	20	329	338	66	404
NBR	11	0	11	2	0	2
SBL	2	0	2	0	0	0
SBT	337	58	395	250	39	289
SBR	6	0	6	1	0	1
EBL	8	0	8	0	0	0
EBT	0	0	0	0	0	0
EBR	3	0	3	2	0	2
WBL	4	0	4	9	0	9
WBT	0	0	0	0	0	0
WBR	2	0	2	2	0	2
North Leg						
Approach	345	58	403	251	39	290
Departure	319	20	339	340	66	406
Total	664	78	742	591	105	696
South Leg						
Approach	323	20	343	340	66	406
Departure	344	58	402	261	39	300
Total	667	78	745	601	105	706
East Leg						
Approach	6	0	6	11	0	11
Departure	13	0	13	2	0	2
Total	19	0	19	13	0	13
West Leg						
Approach	11	0	11	2	0	2
Departure	9	0	9	1	0	1
Total	20	0	20	3	0	3
Total Approaches						
Approach	685	78	763	604	105	709
Departure	685	78	763	604	105	709
Total	1,370	156	1,526	1,208	210	1,418

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Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
6 Minnewawa Avenue/Shepherd Avenue						
NBL	120	0	120	129	0	129
NBT	152	10	162	205	31	236
NBR	18	0	18	24	0	24
SBL	91	30	121	48	20	68
SBT	193	28	221	169	19	188
SBR	34	0	34	36	0	36
EBL	34	0	34	44	0	44
EBT	318	0	318	295	0	295
EBR	128	0	128	111	0	111
WBL	14	0	14	6	0	6
WBT	265	0	265	240	0	240
WBR	137	11	148	88	35	123
North Leg						
Approach	318	58	376	253	39	292
Departure	323	21	344	337	66	403
Total	641	79	720	590	105	695
South Leg						
Approach	290	10	300	358	31	389
Departure	335	28	363	286	19	305
Total	625	38	663	644	50	694
East Leg						
Approach	416	11	427	334	35	369
Departure	427	30	457	367	20	387
Total	843	41	884	701	55	756
West Leg						
Approach	480	0	480	450	0	450
Departure	419	0	419	405	0	405
Total	899	0	899	855	0	855
Total Approaches						
Approach	1,504	79	1,583	1,395	105	1,500
Departure	1,504	79	1,583	1,395	105	1,500
Total	3,008	158	3,166	2,790	210	3,000

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Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
7 Peach Avenue/Project Driveway 1						
NBL	0	0	0	0	0	0
NBT	0	0	0	0	0	0
NBR	0	0	0	0	0	0
SBL	0	5	5	0	16	16
SBT	0	0	0	0	0	0
SBR	0	0	0	0	0	0
EBL	0	0	0	0	0	0
EBT	0	0	0	0	0	0
EBR	0	0	0	0	0	0
WBL	0	0	0	0	0	0
WBT	0	0	0	0	0	0
WBR	0	48	48	0	33	33
North Leg						
Approach	0	5	5	0	16	16
Departure	0	48	48	0	33	33
Total	0	53	53	0	49	49
South Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
East Leg						
Approach	0	48	48	0	33	33
Departure	0	5	5	0	16	16
Total	0	53	53	0	49	49
West Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
Total Approaches						
Approach	0	53	53	0	49	49
Departure	0	53	53	0	49	49
Total	0	106	106	0	98	98

LSA

Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
8 Project Driveway 2/Behymer Avenue						
NBL	0	0	0	0	0	0
NBT	0	0	0	0	0	0
NBR	0	21	21	0	14	14
SBL	0	0	0	0	0	0
SBT	0	0	0	0	0	0
SBR	0	0	0	0	0	0
EBL	0	0	0	0	0	0
EBT	226	17	243	237	55	292
EBR	0	5	5	0	16	16
WBL	0	0	0	0	0	0
WBT	288	23	311	288	22	310
WBR	0	0	0	0	0	0
North Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
South Leg						
Approach	0	21	21	0	14	14
Departure	0	5	5	0	16	16
Total	0	26	26	0	30	30
East Leg						
Approach	288	23	311	288	22	310
Departure	226	38	264	237	69	306
Total	514	61	575	525	91	616
West Leg						
Approach	226	22	248	237	71	308
Departure	288	23	311	288	22	310
Total	514	45	559	525	93	618
Total Approaches						
Approach	514	66	580	525	107	632
Departure	514	66	580	525	107	632
Total	1,028	132	1,160	1,050	214	1,264

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Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
9 Project Driveway 3/Behymer Avenue						
NBL	0	0	0	0	0	0
NBT	0	0	0	0	0	0
NBR	0	28	28	0	19	19
SBL	0	0	0	0	0	0
SBT	0	0	0	0	0	0
SBR	0	0	0	0	0	0
EBL	0	0	0	0	0	0
EBT	226	28	254	237	38	275
EBR	0	10	10	0	31	31
WBL	0	22	22	0	71	71
WBT	288	23	311	288	22	310
WBR	0	0	0	0	0	0
North Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
South Leg						
Approach	0	28	28	0	19	19
Departure	0	32	32	0	102	102
Total	0	60	60	0	121	121
East Leg						
Approach	288	45	333	288	93	381
Departure	226	56	282	237	57	294
Total	514	101	615	525	150	675
West Leg						
Approach	226	38	264	237	69	306
Departure	288	23	311	288	22	310
Total	514	61	575	525	91	616
Total Approaches						
Approach	514	111	625	525	181	706
Departure	514	111	625	525	181	706
Total	1,028	222	1,250	1,050	362	1,412

LSA

Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
10 Project Driveway 4/Behymer Avenue						
NBL	0	0	0	0	0	0
NBT	0	0	0	0	0	0
NBR	0	41	41	0	28	28
SBL	0	0	0	0	0	0
SBT	0	0	0	0	0	0
SBR	0	0	0	0	0	0
EBL	0	0	0	0	0	0
EBT	226	48	274	237	33	270
EBR	0	7	7	0	24	24
WBL	0	0	0	0	0	0
WBT	288	45	333	288	93	381
WBR	0	0	0	0	0	0
North Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
South Leg						
Approach	0	41	41	0	28	28
Departure	0	7	7	0	24	24
Total	0	48	48	0	52	52
East Leg						
Approach	288	45	333	288	93	381
Departure	226	89	315	237	61	298
Total	514	134	648	525	154	679
West Leg						
Approach	226	55	281	237	57	294
Departure	288	45	333	288	93	381
Total	514	100	614	525	150	675
Total Approaches						
Approach	514	141	655	525	178	703
Departure	514	141	655	525	178	703
Total	1,028	282	1,310	1,050	356	1,406

LSA

Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
1 Willow Avenue/Behymer Avenue			
NBL	148	0	148
NBT	723	0	723
NBR	65	20	85
SBL	77	2	79
SBT	634	0	634
SBR	54	0	54
EBL	80	0	80
EBT	141	1	142
EBR	216	0	216
WBL	77	58	135
WBT	152	4	156
WBR	150	7	157
North Leg			
Approach	765	2	767
Departure	953	7	960
Total	1,718	9	1,727
South Leg			
Approach	936	20	956
Departure	927	58	985
Total	1,863	78	1,941
East Leg			
Approach	379	69	448
Departure	283	23	306
Total	662	92	754
West Leg			
Approach	437	1	438
Departure	354	4	358
Total	791	5	796
Total Approaches			
Approach	2,517	92	2,609
Departure	2,517	92	2,609
Total	5,034	184	5,218

LSA

Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
2 Willow Avenue/Perrin Avenue			
NBL	118	0	118
NBT	753	13	766
NBR	79	0	79
SBL	23	0	23
SBT	822	39	861
SBR	129	19	148
EBL	188	7	195
EBT	70	0	70
EBR	190	0	190
WBL	104	0	104
WBT	93	0	93
WBR	30	0	30
North Leg			
Approach	974	58	1,032
Departure	971	20	991
Total	1,945	78	2,023
South Leg			
Approach	950	13	963
Departure	1,116	39	1,155
Total	2,066	52	2,118
East Leg			
Approach	227	0	227
Departure	172	0	172
Total	399	0	399
West Leg			
Approach	448	7	455
Departure	340	19	359
Total	788	26	814
Total Approaches			
Approach	2,599	78	2,677
Departure	2,599	78	2,677
Total	5,198	156	5,354

LSA

Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
3 Peach Avenue/Behymer Avenue			
NBL	30	48	78
NBT	30	0	30
NBR	15	0	15
SBL	1	0	1
SBT	23	0	23
SBR	0	0	0
EBL	0	0	0
EBT	239	22	261
EBR	23	2	25
WBL	11	2	13
WBT	368	21	389
WBR	1	0	1
North Leg			
Approach	24	0	24
Departure	31	0	31
Total	55	0	55
South Leg			
Approach	75	48	123
Departure	57	4	61
Total	132	52	184
East Leg			
Approach	380	23	403
Departure	255	22	277
Total	635	45	680
West Leg			
Approach	262	24	286
Departure	398	69	467
Total	660	93	753
Total Approaches			
Approach	741	95	836
Departure	741	95	836
Total	1,482	190	1,672

LSA

Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
4 Minnewawa Avenue/Behymer Avenue			
NBL	88	20	108
NBT	272	0	272
NBR	19	0	19
SBL	175	0	175
SBT	235	0	235
SBR	3	1	4
EBL	4	4	8
EBT	172	7	179
EBR	81	58	139
WBL	25	0	25
WBT	232	2	234
WBR	253	0	253
EBU		21	21
North Leg			
Approach	413	1	414
Departure	529	4	533
Total	942	5	947
South Leg			
Approach	379	20	399
Departure	341	58	399
Total	720	78	798
East Leg			
Approach	510	2	512
Departure	366	7	373
Total	876	9	885
West Leg			
Approach	257	90	347
Departure	323	44	367
Total	580	134	714
Total Approaches			
Approach	1,559	113	1,672
Departure	1,559	113	1,672
Total	3,118	226	3,344

LSA

Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
5 Minnewawa Avenue/Perrin Avenue			
NBL	61	0	61
NBT	396	20	416
NBR	14	0	14
SBL	2	0	2
SBT	428	58	486
SBR	32	0	32
EBL	34	0	34
EBT	69	0	69
EBR	67	0	67
WBL	7	0	7
WBT	74	0	74
WBR	2	0	2
North Leg			
Approach	462	58	520
Departure	432	20	452
Total	894	78	972
South Leg			
Approach	471	20	491
Departure	502	58	560
Total	973	78	1,051
East Leg			
Approach	83	0	83
Departure	85	0	85
Total	168	0	168
West Leg			
Approach	170	0	170
Departure	167	0	167
Total	337	0	337
Total Approaches			
Approach	1,186	78	1,264
Departure	1,186	78	1,264
Total	2,372	156	2,528

LSA

Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
6 Minnewawa Avenue/Shepherd Avenue			
NBL	199	0	199
NBT	307	10	317
NBR	34	0	34
SBL	174	30	204
SBT	475	28	503
SBR	143	0	143
EBL	103	0	103
EBT	374	0	374
EBR	232	0	232
WBL	32	0	32
WBT	308	0	308
WBR	191	11	202
North Leg			
Approach	792	58	850
Departure	601	21	622
Total	1,393	79	1,472
South Leg			
Approach	540	10	550
Departure	739	28	767
Total	1,279	38	1,317
East Leg			
Approach	531	11	542
Departure	582	30	612
Total	1,113	41	1,154
West Leg			
Approach	709	0	709
Departure	650	0	650
Total	1,359	0	1,359
Total Approaches			
Approach	2,572	79	2,651
Departure	2,572	79	2,651
Total	5,144	158	5,302

LSA

Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
7 Peach Avenue/Project Driveway 1			
NBL	0	0	0
NBT	75	0	75
NBR	0	0	0
SBL	0	5	5
SBT	57	0	57
SBR	0	0	0
EBL	0	0	0
EBT	0	0	0
EBR	0	0	0
WBL	0	0	0
WBT	0	0	0
WBR	0	48	48
North Leg			
Approach	57	5	62
Departure	75	48	123
Total	132	53	185
South Leg			
Approach	75	0	75
Departure	57	0	57
Total	132	0	132
East Leg			
Approach	0	48	48
Departure	0	5	5
Total	0	53	53
West Leg			
Approach	0	0	0
Departure	0	0	0
Total	0	0	0
Total Approaches			
Approach	132	53	185
Departure	132	53	185
Total	264	106	370

LSA

Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
8 Project Driveway 2/Behymer Avenue			
NBL	0	0	0
NBT	0	0	0
NBR	0	21	21
SBL	0	0	0
SBT	0	0	0
SBR	0	0	0
EBL	0	0	0
EBT	257	17	274
EBR	0	5	5
WBL	0	0	0
WBT	323	23	346
WBR	0	0	0
North Leg			
Approach	0	0	0
Departure	0	0	0
Total	0	0	0
South Leg			
Approach	0	21	21
Departure	0	5	5
Total	0	26	26
East Leg			
Approach	323	23	346
Departure	257	38	295
Total	580	61	641
West Leg			
Approach	257	22	279
Departure	323	23	346
Total	580	45	625
Total Approaches			
Approach	580	66	646
Departure	580	66	646
Total	1,160	132	1,292

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Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
9 Project Driveway 3/Behymer Avenue			
NBL	0	0	0
NBT	0	0	0
NBR	0	28	28
SBL	0	0	0
SBT	0	0	0
SBR	0	0	0
EBL	0	0	0
EBT	257	28	285
EBR	0	10	10
WBL	0	22	22
WBT	323	23	346
WBR	0	0	0
North Leg			
Approach	0	0	0
Departure	0	0	0
Total	0	0	0
South Leg			
Approach	0	28	28
Departure	0	32	32
Total	0	60	60
East Leg			
Approach	323	45	368
Departure	257	56	313
Total	580	101	681
West Leg			
Approach	257	38	295
Departure	323	23	346
Total	580	61	641
Total Approaches			
Approach	580	111	691
Departure	580	111	691
Total	1,160	222	1,382

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Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
10 Project Driveway 4/Behymer Avenue			
NBL	0	0	0
NBT	0	0	0
NBR	0	41	41
SBL	0	0	0
SBT	0	0	0
SBR	0	0	0
EBL	0	0	0
EBT	257	48	305
EBR	0	7	7
WBL	0	0	0
WBT	323	45	368
WBR	0	0	0
North Leg			
Approach	0	0	0
Departure	0	0	0
Total	0	0	0
South Leg			
Approach	0	41	41
Departure	0	7	7
Total	0	48	48
East Leg			
Approach	323	45	368
Departure	257	89	346
Total	580	134	714
West Leg			
Approach	257	55	312
Departure	323	45	368
Total	580	100	680
Total Approaches			
Approach	580	141	721
Departure	580	141	721
Total	1,160	282	1,442

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Table D-2 - Near-Term Peak Hour Volume Summary

	PM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
1 Willow Avenue/Behymer Avenue			
NBL	174	0	174
NBT	768	0	768
NBR	112	66	178
SBL	114	8	122
SBT	599	0	599
SBR	40	0	40
EBL	21	0	21
EBT	125	5	130
EBR	179	0	179
WBL	111	39	150
WBT	157	3	160
WBR	137	5	142
North Leg			
Approach	753	8	761
Departure	926	5	931
Total	1,679	13	1,692
South Leg			
Approach	1,054	66	1,120
Departure	889	39	928
Total	1,943	105	2,048
East Leg			
Approach	405	47	452
Departure	351	79	430
Total	756	126	882
West Leg			
Approach	325	5	330
Departure	371	3	374
Total	696	8	704
Total Approaches			
Approach	2,537	126	2,663
Departure	2,537	126	2,663
Total	5,074	252	5,326

LSA

Table D-2 - Near-Term Peak Hour Volume Summary

	PM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
2 Willow Avenue/Perrin Avenue			
NBL	236	0	236
NBT	933	44	977
NBR	152	0	152
SBL	55	0	55
SBT	750	26	776
SBR	126	13	139
EBL	153	22	175
EBT	123	0	123
EBR	232	0	232
WBL	145	0	145
WBT	114	0	114
WBR	54	0	54
North Leg			
Approach	931	39	970
Departure	1,140	66	1,206
Total	2,071	105	2,176
South Leg			
Approach	1,321	44	1,365
Departure	1,127	26	1,153
Total	2,448	70	2,518
East Leg			
Approach	313	0	313
Departure	330	0	330
Total	643	0	643
West Leg			
Approach	508	22	530
Departure	476	13	489
Total	984	35	1,019
Total Approaches			
Approach	3,073	105	3,178
Departure	3,073	105	3,178
Total	6,146	210	6,356

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Table D-2 - Near-Term Peak Hour Volume Summary

	PM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
3 Peach Avenue/Behymer Avenue			
NBL	37	33	70
NBT	37	0	37
NBR	18	0	18
SBL	0	0	0
SBT	39	0	39
SBR	1	0	1
EBL	1	0	1
EBT	270	71	341
EBR	39	8	47
WBL	19	8	27
WBT	318	14	332
WBR	0	0	0
North Leg			
Approach	40	0	40
Departure	38	0	38
Total	78	0	78
South Leg			
Approach	92	33	125
Departure	97	16	113
Total	189	49	238
East Leg			
Approach	337	22	359
Departure	288	71	359
Total	625	93	718
West Leg			
Approach	310	79	389
Departure	356	47	403
Total	666	126	792
Total Approaches			
Approach	779	134	913
Departure	779	134	913
Total	1,558	268	1,826

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Table D-2 - Near-Term Peak Hour Volume Summary

	PM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
4 Minnewawa Avenue/Behymer Avenue			
NBL	84	66	150
NBT	300	0	300
NBR	30	0	30
SBL	187	0	187
SBT	213	0	213
SBR	2	5	7
EBL	2	3	5
EBT	212	5	217
EBR	72	39	111
WBL	15	0	15
WBT	247	8	255
WBR	179	0	179
EBU		14	14
North Leg			
Approach	402	5	407
Departure	481	3	484
Total	883	8	891
South Leg			
Approach	414	66	480
Departure	300	39	339
Total	714	105	819
East Leg			
Approach	441	8	449
Departure	429	5	434
Total	870	13	883
West Leg			
Approach	286	61	347
Departure	333	93	426
Total	619	154	773
Total Approaches			
Approach	1,543	140	1,683
Departure	1,543	140	1,683
Total	3,086	280	3,366

LSA

Table D-2 - Near-Term Peak Hour Volume Summary

	PM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
5 Minnewawa Avenue/Perrin Avenue			
NBL	88	0	88
NBT	463	66	529
NBR	7	0	7
SBL	0	0	0
SBT	376	39	415
SBR	38	0	38
EBL	37	0	37
EBT	97	0	97
EBR	91	0	91
WBL	14	0	14
WBT	96	0	96
WBR	2	0	2
North Leg			
Approach	414	39	453
Departure	502	66	568
Total	916	105	1,021
South Leg			
Approach	558	66	624
Departure	481	39	520
Total	1,039	105	1,144
East Leg			
Approach	112	0	112
Departure	104	0	104
Total	216	0	216
West Leg			
Approach	225	0	225
Departure	222	0	222
Total	447	0	447
Total Approaches			
Approach	1,309	105	1,414
Departure	1,309	105	1,414
Total	2,618	210	2,828

LSA

Table D-2 - Near-Term Peak Hour Volume Summary

	PM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
6 Minnewawa Avenue/Shepherd Avenue			
NBL	265	0	265
NBT	546	31	577
NBR	48	0	48
SBL	138	20	158
SBT	435	19	454
SBR	152	0	152
EBL	182	0	182
EBT	368	0	368
EBR	239	0	239
WBL	30	0	30
WBT	316	0	316
WBR	193	35	228
North Leg			
Approach	725	39	764
Departure	921	66	987
Total	1,646	105	1,751
South Leg			
Approach	859	31	890
Departure	704	19	723
Total	1,563	50	1,613
East Leg			
Approach	539	35	574
Departure	554	20	574
Total	1,093	55	1,148
West Leg			
Approach	789	0	789
Departure	733	0	733
Total	1,522	0	1,522
Total Approaches			
Approach	2,912	105	3,017
Departure	2,912	105	3,017
Total	5,824	210	6,034

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Table D-2 - Near-Term Peak Hour Volume Summary

		PM Peak Hour		
		Near-Term Without Project	Project Trips	Near-Term Plus Project
7	**Peach Avenue/Project Driveway 1**			
NBL		0	0	0
NBT		91	0	91
NBR		0	0	0
SBL		0	16	16
SBT		97	0	97
SBR		0	0	0
EBL		0	0	0
EBT		0	0	0
EBR		0	0	0
WBL		0	0	0
WBT		0	0	0
WBR		0	33	33
North Leg				
	Approach	97	16	113
	Departure	91	33	124
	Total	188	49	237
South Leg				
	Approach	91	0	91
	Departure	97	0	97
	Total	188	0	188
East Leg				
	Approach	0	33	33
	Departure	0	16	16
	Total	0	49	49
West Leg				
	Approach	0	0	0
	Departure	0	0	0
	Total	0	0	0
Total Approaches				
	Approach	188	49	237
	Departure	188	49	237
	Total	376	98	474

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Table D-2 - Near-Term Peak Hour Volume Summary

		PM Peak Hour		
		Near-Term Without Project	Project Trips	Near-Term Plus Project
8	**Project Driveway 2/Behymer Avenue**			
NBL		0	0	0
NBT		0	0	0
NBR		0	14	14
SBL		0	0	0
SBT		0	0	0
SBR		0	0	0
EBL		0	0	0
EBT		286	55	341
EBR		0	16	16
WBL		0	0	0
WBT		333	22	355
WBR		0	0	0
North Leg				
	Approach	0	0	0
	Departure	0	0	0
	Total	0	0	0
South Leg				
	Approach	0	14	14
	Departure	0	16	16
	Total	0	30	30
East Leg				
	Approach	333	22	355
	Departure	286	69	355
	Total	619	91	710
West Leg				
	Approach	286	71	357
	Departure	333	22	355
	Total	619	93	712
Total Approaches				
	Approach	619	107	726
	Departure	619	107	726
	Total	1,238	214	1,452

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Table D-2 - Near-Term Peak Hour Volume Summary

	PM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
9 Project Driveway 3/Behymer Avenue			
NBL	0	0	0
NBT	0	0	0
NBR	0	19	19
SBL	0	0	0
SBT	0	0	0
SBR	0	0	0
EBL	0	0	0
EBT	286	38	324
EBR	0	31	31
WBL	0	71	71
WBT	333	22	355
WBR	0	0	0
North Leg			
Approach	0	0	0
Departure	0	0	0
Total	0	0	0
South Leg			
Approach	0	19	19
Departure	0	102	102
Total	0	121	121
East Leg			
Approach	333	93	426
Departure	286	57	343
Total	619	150	769
West Leg			
Approach	286	69	355
Departure	333	22	355
Total	619	91	710
Total Approaches			
Approach	619	181	800
Departure	619	181	800
Total	1,238	362	1,600

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Table D-2 - Near-Term Peak Hour Volume Summary

	PM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
10 Project Driveway 4/Behymer Avenue			
NBL	0	0	0
NBT	0	0	0
NBR	0	28	28
SBL	0	0	0
SBT	0	0	0
SBR	0	0	0
EBL	0	0	0
EBT	286	33	319
EBR	0	24	24
WBL	0	0	0
WBT	333	93	426
WBR	0	0	0
North Leg			
Approach	0	0	0
Departure	0	0	0
Total	0	0	0
South Leg			
Approach	0	28	28
Departure	0	24	24
Total	0	52	52
East Leg			
Approach	333	93	426
Departure	286	61	347
Total	619	154	773
West Leg			
Approach	286	57	343
Departure	333	93	426
Total	619	150	769
Total Approaches			
Approach	619	178	797
Departure	619	178	797
Total	1,238	356	1,594

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Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
1 Willow Avenue/Behymer Avenue						
NBL	193	0	193	215	0	215
NBT	784	0	784	889	0	889
NBR	265	0	265	670	0	670
SBL	148	2	150	244	8	252
SBT	913	0	913	655	0	655
SBR	57	0	57	42	0	42
EBL	84	0	84	22	0	22
EBT	222	1	223	254	5	259
EBR	267	0	267	237	0	237
WBL	547	0	547	526	0	526
WBT	289	4	293	252	3	255
WBR	330	7	337	254	5	259
North Leg						
Approach	1,118	2	1,120	941	8	949
Departure	1,198	7	1,205	1,165	5	1,170
Total	2,316	9	2,325	2,106	13	2,119
South Leg						
Approach	1,242	0	1,242	1,774	0	1,774
Departure	1,727	0	1,727	1,418	0	1,418
Total	2,969	0	2,969	3,192	0	3,192
East Leg						
Approach	1,166	11	1,177	1,032	8	1,040
Departure	635	3	638	1,168	13	1,181
Total	1,801	14	1,815	2,200	21	2,221
West Leg						
Approach	573	1	574	513	5	518
Departure	539	4	543	509	3	512
Total	1,112	5	1,117	1,022	8	1,030
Total Approaches						
Approach	4,099	14	4,113	4,260	21	4,281
Departure	4,099	14	4,113	4,260	21	4,281
Total	8,198	28	8,226	8,520	42	8,562

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Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
2 Willow Avenue/Perrin Avenue						
NBL	160	0	160	273	0	273
NBT	861	0	861	1,373	0	1,373
NBR	134	0	134	280	0	280
SBL	45	0	45	120	0	120
SBT	1,252	0	1,252	908	0	908
SBR	449	0	449	401	0	401
EBL	278	0	278	449	0	449
EBT	119	7	126	233	22	255
EBR	209	0	209	333	0	333
WBL	197	0	197	246	0	246
WBT	181	19	200	197	13	210
WBR	76	0	76	107	0	107
North Leg						
Approach	1,746	0	1,746	1,429	0	1,429
Departure	1,215	0	1,215	1,929	0	1,929
Total	2,961	0	2,961	3,358	0	3,358
South Leg						
Approach	1,155	0	1,155	1,926	0	1,926
Departure	1,658	0	1,658	1,487	0	1,487
Total	2,813	0	2,813	3,413	0	3,413
East Leg						
Approach	454	19	473	550	13	563
Departure	298	7	305	633	22	655
Total	752	26	778	1,183	35	1,218
West Leg						
Approach	606	7	613	1,015	22	1,037
Departure	790	19	809	871	13	884
Total	1,396	26	1,422	1,886	35	1,921
Total Approaches						
Approach	3,961	26	3,987	4,920	35	4,955
Departure	3,961	26	3,987	4,920	35	4,955
Total	7,922	52	7,974	9,840	70	9,910

LSA

Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
3 Peach Avenue/Behymer Avenue						
NBL	62	8	70	95	6	101
NBT	56	0	56	74	0	74
NBR	35	1	36	54	5	59
SBL	36	0	36	10	0	10
SBT	47	0	47	75	0	75
SBR	1	0	1	1	0	1
EBL	0	0	0	1	0	1
EBT	309	3	312	772	11	783
EBR	60	0	60	83	2	85
WBL	39	6	45	48	11	59
WBT	961	3	964	620	2	622
WBR	7	0	7	36	0	36
North Leg						
Approach	84	0	84	86	0	86
Departure	63	0	63	111	0	111
Total	147	0	147	197	0	197
South Leg						
Approach	153	9	162	223	11	234
Departure	146	6	152	206	13	219
Total	299	15	314	429	24	453
East Leg						
Approach	1,007	9	1,016	704	13	717
Departure	380	4	384	836	16	852
Total	1,387	13	1,400	1,540	29	1,569
West Leg						
Approach	369	3	372	856	13	869
Departure	1,024	11	1,035	716	8	724
Total	1,393	14	1,407	1,572	21	1,593
Total Approaches						
Approach	1,613	21	1,634	1,869	37	1,906
Departure	1,613	21	1,634	1,869	37	1,906
Total	3,226	42	3,268	3,738	74	3,812

LSA

Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
4 Minnewawa Avenue/Behymer Avenue						
NBL	177	10	187	229	31	260
NBT	317	0	317	628	0	628
NBR	35	0	35	64	0	64
SBL	250	0	250	226	0	226
SBT	544	0	544	310	0	310
SBR	23	1	24	10	5	15
EBL	12	4	16	14	3	17
EBT	222	37	259	472	25	497
EBR	153	28	181	161	19	180
WBL	63	0	63	35	0	35
WBT	512	13	525	463	42	505
WBR	279	0	279	223	0	223
EBU		7	7		5	5
North Leg						
Approach	817	1	818	546	5	551
Departure	608	4	612	865	3	868
Total	1,425	5	1,430	1,411	8	1,419
South Leg						
Approach	529	10	539	921	31	952
Departure	760	28	788	506	19	525
Total	1,289	38	1,327	1,427	50	1,477
East Leg						
Approach	854	13	867	721	42	763
Departure	507	37	544	762	25	787
Total	1,361	50	1,411	1,483	67	1,550
West Leg						
Approach	387	76	463	647	52	699
Departure	712	31	743	702	83	785
Total	1,099	107	1,206	1,349	135	1,484
Total Approaches						
Approach	2,587	100	2,687	2,835	130	2,965
Departure	2,587	100	2,687	2,835	130	2,965
Total	5,174	200	5,374	5,670	260	5,930

LSA

Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
5 Minnewawa Avenue/Perrin Avenue						
NBL	96	0	96	161	0	161
NBT	523	10	533	1,069	31	1,100
NBR	18	0	18	18	0	18
SBL	3	0	3	4	0	4
SBT	962	28	990	597	19	616
SBR	140	0	140	111	0	111
EBL	85	0	85	129	0	129
EBT	129	0	129	179	0	179
EBR	121	0	121	149	0	149
WBL	22	0	22	23	0	23
WBT	144	0	144	177	0	177
WBR	4	0	4	5	0	5
North Leg						
Approach	1,105	28	1,133	712	19	731
Departure	612	10	622	1,203	31	1,234
Total	1,717	38	1,755	1,915	50	1,965
South Leg						
Approach	637	10	647	1,248	31	1,279
Departure	1,105	28	1,133	769	19	788
Total	1,742	38	1,780	2,017	50	2,067
East Leg						
Approach	170	0	170	205	0	205
Departure	150	0	150	201	0	201
Total	320	0	320	406	0	406
West Leg						
Approach	335	0	335	457	0	457
Departure	380	0	380	449	0	449
Total	715	0	715	906	0	906
Total Approaches						
Approach	2,247	38	2,285	2,622	50	2,672
Departure	2,247	38	2,285	2,622	50	2,672
Total	4,494	76	4,570	5,244	100	5,344

LSA

Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
6 Minnewawa Avenue/Shepherd Avenue						
NBL	260	0	260	473	0	473
NBT	387	10	397	1,066	31	1,097
NBR	51	0	51	90	0	90
SBL	297	0	297	199	0	199
SBT	966	28	994	673	19	692
SBR	221	0	221	230	0	230
EBL	150	0	150	322	0	322
EBT	564	0	564	511	0	511
EBR	508	0	508	441	0	441
WBL	106	0	106	48	0	48
WBT	503	0	503	383	0	383
WBR	322	0	322	329	0	329
North Leg						
Approach	1,484	28	1,512	1,102	19	1,121
Departure	859	10	869	1,717	31	1,748
Total	2,343	38	2,381	2,819	50	2,869
South Leg						
Approach	698	10	708	1,629	31	1,660
Departure	1,580	28	1,608	1,162	19	1,181
Total	2,278	38	2,316	2,791	50	2,841
East Leg						
Approach	931	0	931	760	0	760
Departure	912	0	912	800	0	800
Total	1,843	0	1,843	1,560	0	1,560
West Leg						
Approach	1,222	0	1,222	1,274	0	1,274
Departure	984	0	984	1,086	0	1,086
Total	2,206	0	2,206	2,360	0	2,360
Total Approaches						
Approach	4,335	38	4,373	4,765	50	4,815
Departure	4,335	38	4,373	4,765	50	4,815
Total	8,670	76	8,746	9,530	100	9,630

LSA

Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
7 Peach Avenue/Project Driveway 1						
NBL	0	0	0	0	0	0
NBT	147	1	148	170	5	175
NBR	0	19	19	0	61	61
SBL	0	3	3	0	9	9
SBT	108	4	112	194	3	197
SBR	0	0	0	0	0	0
EBL	0	0	0	0	0	0
EBT	0	0	0	0	0	0
EBR	0	0	0	0	0	0
WBL	0	54	54	0	36	36
WBT	0	0	0	0	0	0
WBR	0	8	8	0	6	6
North Leg						
Approach	108	7	115	194	12	206
Departure	147	9	156	170	11	181
Total	255	16	271	364	23	387
South Leg						
Approach	147	20	167	170	66	236
Departure	108	58	166	194	39	233
Total	255	78	333	364	105	469
East Leg						
Approach	0	62	62	0	42	42
Departure	0	22	22	0	70	70
Total	0	84	84	0	112	112
West Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
Total Approaches						
Approach	255	89	344	364	120	484
Departure	255	89	344	364	120	484
Total	510	178	688	728	240	968

LSA

Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
8 Project Driveway 2/Behymer Avenue						
NBL	0	0	0	0	0	0
NBT	0	0	0	0	0	0
NBR	0	21	21	0	14	14
SBL	0	0	0	0	0	0
SBT	0	0	0	0	0	0
SBR	0	0	0	0	0	0
EBL	0	0	0	0	0	0
EBT	310	4	314	375	14	389
EBR	0	0	0	0	2	2
WBL	0	0	0	0	0	0
WBT	390	9	399	414	13	427
WBR	0	0	0	0	0	0
North Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
South Leg						
Approach	0	21	21	0	14	14
Departure	0	0	0	0	2	2
Total	0	21	21	0	16	16
East Leg						
Approach	390	9	399	414	13	427
Departure	310	25	335	375	28	403
Total	700	34	734	789	41	830
West Leg						
Approach	310	4	314	375	16	391
Departure	390	9	399	414	13	427
Total	700	13	713	789	29	818
Total Approaches						
Approach	700	34	734	789	43	832
Departure	700	34	734	789	43	832
Total	1,400	68	1,468	1,578	86	1,664

LSA

Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
9 Project Driveway 3/Behymer Avenue						
NBL	0	0	0	0	0	0
NBT	0	0	0	0	0	0
NBR	0	28	28	0	19	19
SBL	0	0	0	0	0	0
SBT	0	0	0	0	0	0
SBR	0	0	0	0	0	0
EBL	0	0	0	0	0	0
EBT	310	23	333	375	22	397
EBR	0	2	2	0	6	6
WBL	0	22	22	0	71	71
WBT	390	9	399	414	13	427
WBR	0	0	0	0	0	0
North Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
South Leg						
Approach	0	28	28	0	19	19
Departure	0	24	24	0	77	77
Total	0	52	52	0	96	96
East Leg						
Approach	390	31	421	414	84	498
Departure	310	51	361	375	41	416
Total	700	82	782	789	125	914
West Leg						
Approach	310	25	335	375	28	403
Departure	390	9	399	414	13	427
Total	700	34	734	789	41	830
Total Approaches						
Approach	700	84	784	789	131	920
Departure	700	84	784	789	131	920
Total	1,400	168	1,568	1,578	262	1,840

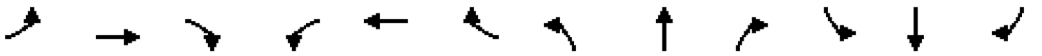
LSA

Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
10 Project Driveway 4/Behymer Avenue						
NBL	0	0	0	0	0	0
NBT	0	0	0	0	0	0
NBR	0	28	28	0	19	19
SBL	0	0	0	0	0	0
SBT	0	0	0	0	0	0
SBR	0	0	0	0	0	0
EBL	0	0	0	0	0	0
EBT	310	48	358	375	33	408
EBR	0	2	2	0	8	8
WBL	0	0	0	0	0	0
WBT	390	31	421	414	84	498
WBR	0	0	0	0	0	0
North Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
South Leg						
Approach	0	28	28	0	19	19
Departure	0	2	2	0	8	8
Total	0	30	30	0	27	27
East Leg						
Approach	390	31	421	414	84	498
Departure	310	76	386	375	52	427
Total	700	107	807	789	136	925
West Leg						
Approach	310	50	360	375	41	416
Departure	390	31	421	414	84	498
Total	700	81	781	789	125	914
Total Approaches						
Approach	700	109	809	789	144	933
Departure	700	109	809	789	144	933
Total	1,400	218	1,618	1,578	288	1,866

APPENDIX E

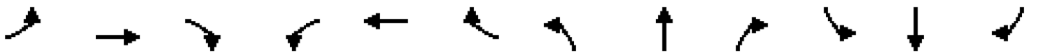
LEVEL OF SERVICE WORKSHEETS



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	84	222	267	547	289	330	193	784	265	148	913	57
Future Volume (veh/h)	84	222	267	547	289	330	193	784	265	148	913	57
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	87	229	275	564	298	340	199	808	273	153	941	59
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	3	3	3
Cap, veh/h	126	370	314	268	209	239	230	1690	525	183	1549	481
Arrive On Green	0.07	0.20	0.20	0.15	0.26	0.26	0.13	0.33	0.33	0.10	0.31	0.31
Sat Flow, veh/h	1767	1856	1572	1781	797	910	1781	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	87	229	275	564	0	638	199	808	273	153	941	59
Grp Sat Flow(s),veh/h/ln	1767	1856	1572	1781	0	1707	1781	1702	1585	1767	1689	1572
Q Serve(g_s), s	4.9	11.6	17.4	15.4	0.0	26.9	11.2	12.9	14.3	8.7	16.2	2.8
Cycle Q Clear(g_c), s	4.9	11.6	17.4	15.4	0.0	26.9	11.2	12.9	14.3	8.7	16.2	2.8
Prop In Lane	1.00		1.00	1.00		0.53	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	126	370	314	268	0	448	230	1690	525	183	1549	481
V/C Ratio(X)	0.69	0.62	0.88	2.11	0.00	1.42	0.87	0.48	0.52	0.83	0.61	0.12
Avail Cap(c_a), veh/h	238	425	361	268	0	448	255	1958	608	253	1942	603
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.5	37.5	39.8	43.5	0.0	37.8	43.8	27.3	27.7	45.1	30.3	25.7
Incr Delay (d2), s/veh	2.5	2.5	19.6	510.8	0.0	203.4	22.0	0.7	2.6	11.6	1.3	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	5.3	8.2	44.5	0.0	36.0	6.3	5.3	5.6	4.4	6.7	1.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	49.0	39.9	59.4	554.3	0.0	241.2	65.7	27.9	30.3	56.6	31.6	26.0
LnGrp LOS	D	D	E	F		F	E	C	C	E	C	C
Approach Vol, veh/h		591			1202			1280			1153	
Approach Delay, s/veh		50.3			388.1			34.3			34.6	
Approach LOS		D			F			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.5	37.0	13.5	33.4	15.9	39.6	20.0	26.9
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	13.2	18.2	6.9	28.9	10.7	16.3	17.4	19.4
Green Ext Time (p_c), s	0.0	13.1	0.0	0.0	0.1	14.1	0.0	1.0

Intersection Summary	
HCM 7th Control Delay, s/veh	137.3
HCM 7th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	278	119	209	197	181	76	160	861	134	45	1252	449
Future Volume (veh/h)	278	119	209	197	181	76	160	861	134	45	1252	449
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	287	123	215	203	187	78	165	888	138	46	1291	463
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	0	0	0	2	2	2	3	3	3
Cap, veh/h	338	340	288	249	247	209	274	2055	638	102	1930	599
Arrive On Green	0.19	0.18	0.18	0.14	0.13	0.13	0.08	0.40	0.40	0.06	0.38	0.38
Sat Flow, veh/h	1781	1870	1585	1810	1900	1610	3456	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	287	123	215	203	187	78	165	888	138	46	1291	463
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1810	1900	1610	1728	1702	1585	1767	1689	1572
Q Serve(g_s), s	15.6	5.8	12.8	10.9	9.5	4.4	4.6	12.6	5.7	2.5	21.2	25.8
Cycle Q Clear(g_c), s	15.6	5.8	12.8	10.9	9.5	4.4	4.6	12.6	5.7	2.5	21.2	25.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	338	340	288	249	247	209	274	2055	638	102	1930	599
V/C Ratio(X)	0.85	0.36	0.75	0.81	0.76	0.37	0.60	0.43	0.22	0.45	0.67	0.77
Avail Cap(c_a), veh/h	476	449	380	398	367	311	276	2055	638	171	1975	613
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.1	35.8	38.7	41.9	42.0	39.8	44.5	21.6	19.6	45.6	25.7	27.2
Incr Delay (d2), s/veh	16.3	1.8	10.8	16.0	12.4	3.0	2.5	0.5	0.6	1.2	1.5	8.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.1	2.7	5.7	5.9	5.3	1.9	2.1	5.0	2.1	1.1	8.5	10.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	55.4	37.6	49.6	57.9	54.4	42.8	47.1	22.1	20.1	46.7	27.2	35.4
LnGrp LOS	E	D	D	E	D	D	D	C	C	D	C	D
Approach Vol, veh/h		625			468			1191			1800	
Approach Delay, s/veh		49.9			54.0			25.3			29.8	
Approach LOS		D			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.2	43.8	24.3	18.7	11.1	46.0	19.1	23.9
Change Period (Y+Rc), s	5.3	5.7	5.3	5.7	5.3	5.7	5.3	5.7
Max Green Setting (Gmax), s	8.0	39.0	26.7	19.3	9.7	37.3	22.0	24.0
Max Q Clear Time (g_c+I1), s	6.6	27.8	17.6	11.5	4.5	14.6	12.9	14.8
Green Ext Time (p_c), s	0.0	10.3	1.4	1.5	0.0	14.0	0.9	2.0

Intersection Summary	
HCM 7th Control Delay, s/veh	34.4
HCM 7th LOS	C

Intersection	
Int Delay, s/veh	73.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	309	60	39	961	7	62	56	35	36	47	1
Future Vol, veh/h	0	309	60	39	961	7	62	56	35	36	47	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	1	1	1	0	0	0	0	0	0
Mvmt Flow	0	336	65	42	1045	8	67	61	38	39	51	1

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	1052	0	0	401	0	0	1523	1505	368	1499	1534	1048
Stage 1	-	-	-	-	-	-	368	368	-	1133	1133	-
Stage 2	-	-	-	-	-	-	1155	1137	-	366	401	-
Critical Hdwy	4.13	-	-	4.11	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.227	-	-	2.209	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	658	-	-	1163	-	-	98	122	682	102	117	279
Stage 1	-	-	-	-	-	-	655	625	-	249	280	-
Stage 2	-	-	-	-	-	-	242	279	-	657	604	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	658	-	-	1163	-	-	~ 48	112	682	42	107	279
Mov Cap-2 Maneuver	-	-	-	-	-	-	~ 48	112	-	42	107	-
Stage 1	-	-	-	-	-	-	655	625	-	227	256	-
Stage 2	-	-	-	-	-	-	176	255	-	560	604	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0	0.32	$ 568.33	$ 366.02
HCM LOS			F	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	84	658	-	-	70	-	-	64
HCM Lane V/C Ratio	1.991	-	-	-	0.036	-	-	1.418
HCM Control Delay (s/veh)	$ 568.3	0	-	-	8.2	0	-	$ 366
HCM Lane LOS	F	A	-	-	A	A	-	F
HCM 95th %tile Q(veh)	14.6	0	-	-	0.1	-	-	7.8

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Intersection Delay, s/veh	480.6
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	12	222	153	63	512	279	177	317	35	250	544	23
Future Vol, veh/h	12	222	153	63	512	279	177	317	35	250	544	23
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Heavy Vehicles, %	3	3	3	1	1	1	3	3	3	3	3	3
Mvmt Flow	12	229	158	65	528	288	182	327	36	258	561	24
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	136.2	630.6	281.2	616
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	33%	3%	7%	31%
Vol Thru, %	60%	57%	60%	67%
Vol Right, %	7%	40%	33%	3%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	529	387	854	817
LT Vol	177	12	63	250
Through Vol	317	222	512	544
RT Vol	35	153	279	23
Lane Flow Rate	545	399	880	842
Geometry Grp	1	1	1	1
Degree of Util (X)	1.466	1.044	2.307	2.268
Departure Headway (Hd)	19.313	21.735	14.634	15.645
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	196	172	255	244
Service Time	17.313	19.735	12.634	13.645
HCM Lane V/C Ratio	2.781	2.32	3.451	3.451
HCM Control Delay, s/veh	281.2	136.2	630.6	616
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	16.9	8.5	44.9	41.2

Intersection	
Int Delay, s/veh	522

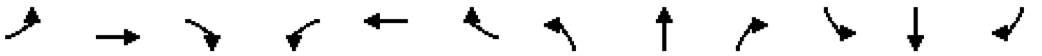
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	85	129	121	22	144	4	96	523	18	3	962	140
Future Vol, veh/h	85	129	121	22	144	4	96	523	18	3	962	140
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	3	3	3	3	3	3
Mvmt Flow	92	140	132	24	157	4	104	568	20	3	1046	152

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1984	1925	1122	1909	1991	578	1198	0	0	588	0	0
Stage 1	1128	1128	-	787	787	-	-	-	-	-	-	-
Stage 2	855	797	-	1122	1204	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	~ 46	~ 67	251	52	~ 61	515	579	-	-	982	-	-
Stage 1	248	279	-	385	403	-	-	-	-	-	-	-
Stage 2	353	399	-	250	257	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 33	~ 48	251	~ 18	~ 44	515	579	-	-	982	-	-
Mov Cap-2 Maneuver	~ 33	~ 48	-	~ 18	~ 44	-	-	-	-	-	-	-
Stage 1	246	276	-	282	295	-	-	-	-	-	-	-
Stage 2	120	292	-	58	254	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/veh	$ 2494.76	$ 1976.85	1.9	0.02
HCM LOS	F	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	269	-	-	58	38	5	-	-
HCM Lane V/C Ratio	0.18	-	-	6.237	4.918	0.003	-	-
HCM Control Delay (s/veh)	12.6	0	-	$ 2494.8	$ 1976.9	8.7	0	-
HCM Lane LOS	B	A	-	F	F	A	A	-
HCM 95th %tile Q(veh)	0.7	-	-	41.5	21.6	0	-	-

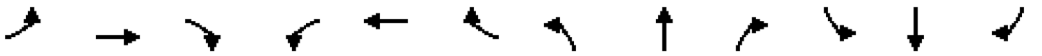
Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	150	564	508	106	503	322	260	387	51	297	966	221
Future Volume (veh/h)	150	564	508	106	503	322	260	387	51	297	966	221
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	163	613	552	115	547	350	283	421	55	323	1050	240
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	190	1050	468	156	517	438	304	517	438	304	517	438
Arrive On Green	0.11	0.30	0.30	0.09	0.28	0.28	0.17	0.28	0.28	0.17	0.28	0.28
Sat Flow, veh/h	1767	3526	1572	1767	1856	1572	1767	1856	1572	1767	1856	1572
Grp Volume(v), veh/h	163	613	552	115	547	350	283	421	55	323	1050	240
Grp Sat Flow(s),veh/h/ln	1767	1763	1572	1767	1856	1572	1767	1856	1572	1767	1856	1572
Q Serve(g_s), s	11.1	18.1	36.4	7.8	34.0	25.2	19.3	25.9	3.2	21.0	34.0	15.9
Cycle Q Clear(g_c), s	11.1	18.1	36.4	7.8	34.0	25.2	19.3	25.9	3.2	21.0	34.0	15.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	190	1050	468	156	517	438	304	517	438	304	517	438
V/C Ratio(X)	0.86	0.58	1.18	0.74	1.06	0.80	0.93	0.82	0.13	1.06	2.03	0.55
Avail Cap(c_a), veh/h	304	1050	468	304	517	438	304	517	438	304	517	438
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.6	36.5	42.9	54.3	44.1	40.9	49.9	41.1	33.0	50.6	44.1	37.5
Incr Delay (d2), s/veh	7.5	1.1	100.8	2.5	56.1	10.9	33.6	9.8	0.1	69.3	471.5	1.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.1	7.6	26.5	3.4	22.9	10.6	11.1	12.8	1.2	15.1	83.1	6.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	61.1	37.5	143.7	56.8	100.2	51.8	83.5	51.0	33.1	119.9	515.6	39.4
LnGrp LOS	E	D	F	E	F	D	F	D	C	F	F	D
Approach Vol, veh/h		1328			1012			759			1613	
Approach Delay, s/veh		84.6			78.5			61.8			365.5	
Approach LOS		F			E			E			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	25.0	40.0	17.1	40.0	25.0	40.0	14.8	42.4
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	21.3	36.0	13.1	36.0	23.0	27.9	9.8	38.4
Green Ext Time (p_c), s	0.0	0.0	0.1	0.0	0.0	1.4	0.1	0.0

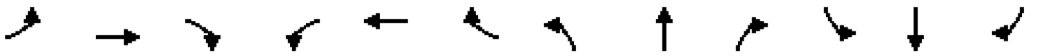
Intersection Summary	
HCM 7th Control Delay, s/veh	175.8
HCM 7th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	254	237	526	252	254	215	889	670	244	655	42
Future Volume (veh/h)	22	254	237	526	252	254	215	889	670	244	655	42
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1885	1885	1885	1885	1885	1885
Adj Flow Rate, veh/h	24	276	258	572	274	276	234	966	728	265	712	46
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	1	1	1	1	1	1
Cap, veh/h	67	347	294	244	231	233	235	1800	559	235	1800	559
Arrive On Green	0.04	0.19	0.19	0.14	0.27	0.27	0.13	0.35	0.35	0.13	0.35	0.35
Sat Flow, veh/h	1781	1870	1585	1781	855	861	1795	5147	1598	1795	5147	1598
Grp Volume(v), veh/h	24	276	258	572	0	550	234	966	728	265	712	46
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1781	0	1715	1795	1716	1598	1795	1716	1598
Q Serve(g_s), s	1.5	15.8	17.8	15.4	0.0	30.4	14.6	16.9	39.3	14.7	11.7	2.2
Cycle Q Clear(g_c), s	1.5	15.8	17.8	15.4	0.0	30.4	14.6	16.9	39.3	14.7	11.7	2.2
Prop In Lane	1.00		1.00	1.00		0.50	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	67	347	294	244	0	465	235	1800	559	235	1800	559
V/C Ratio(X)	0.36	0.80	0.88	2.34	0.00	1.18	1.00	0.54	1.30	1.13	0.40	0.08
Avail Cap(c_a), veh/h	219	391	332	244	0	465	235	1800	559	235	1800	559
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.7	43.7	44.5	48.5	0.0	41.0	48.8	29.2	36.5	48.8	27.6	24.4
Incr Delay (d2), s/veh	1.2	10.3	21.3	616.7	0.0	102.9	57.5	0.8	148.8	97.5	0.5	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	8.1	8.5	48.5	0.0	25.6	10.3	7.0	37.7	12.9	4.9	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	53.9	54.0	65.8	665.1	0.0	143.9	106.3	30.1	185.3	146.3	28.0	24.6
LnGrp LOS	D	D	E	F		F	F	C	F	F	C	C
Approach Vol, veh/h		558			1122			1928			1023	
Approach Delay, s/veh		59.4			409.6			97.9			58.5	
Approach LOS		E			F			F			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.0	45.0	10.4	36.9	20.0	45.0	20.0	27.3
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	16.6	13.7	3.5	32.4	16.7	41.3	17.4	19.8
Green Ext Time (p_c), s	0.0	11.4	0.0	0.0	0.0	0.0	0.0	1.0

Intersection Summary	
HCM 7th Control Delay, s/veh	160.1
HCM 7th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	449	233	333	246	197	107	273	1373	280	120	908	401
Future Volume (veh/h)	449	233	333	246	197	107	273	1373	280	120	908	401
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	473	245	351	259	207	113	287	1445	295	126	956	422
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	1	1	1	0	0	0
Cap, veh/h	436	411	349	297	266	225	251	1715	532	142	1808	561
Arrive On Green	0.24	0.22	0.22	0.16	0.14	0.14	0.07	0.33	0.33	0.08	0.35	0.35
Sat Flow, veh/h	1810	1900	1610	1810	1900	1610	3483	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	473	245	351	259	207	113	287	1445	295	126	956	422
Grp Sat Flow(s),veh/h/ln	1810	1900	1610	1810	1900	1610	1742	1716	1598	1810	1729	1610
Q Serve(g_s), s	26.7	12.9	24.0	15.5	11.7	7.2	8.0	28.9	16.7	7.6	16.3	25.6
Cycle Q Clear(g_c), s	26.7	12.9	24.0	15.5	11.7	7.2	8.0	28.9	16.7	7.6	16.3	25.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	436	411	349	297	266	225	251	1715	532	142	1808	561
V/C Ratio(X)	1.09	0.60	1.01	0.87	0.78	0.50	1.14	0.84	0.55	0.89	0.53	0.75
Avail Cap(c_a), veh/h	436	411	349	359	331	280	251	1732	538	142	1825	566
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	42.1	39.1	43.4	45.2	46.0	44.1	51.4	34.3	30.2	50.6	28.8	31.9
Incr Delay (d2), s/veh	68.0	4.2	49.9	22.7	14.5	4.7	100.4	4.8	3.2	42.9	0.8	7.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	19.7	6.3	14.1	8.8	6.5	3.1	7.0	12.6	6.7	5.1	6.9	10.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	110.1	43.3	93.4	67.9	60.5	48.8	151.9	39.1	33.4	93.4	29.7	39.8
LnGrp LOS	F	D	F	E	E	D	F	D	C	F	C	D
Approach Vol, veh/h		1069			579			2027			1504	
Approach Delay, s/veh		89.3			61.5			54.2			37.9	
Approach LOS		F			E			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.3	44.3	32.0	21.2	15.0	42.6	23.5	29.7
Change Period (Y+Rc), s	5.3	5.7	5.3	5.7	6.3	5.7	5.3	5.7
Max Green Setting (Gmax), s	8.0	39.0	26.7	19.3	8.7	37.3	22.0	24.0
Max Q Clear Time (g_c+I1), s	10.0	27.6	28.7	13.7	9.6	30.9	17.5	26.0
Green Ext Time (p_c), s	0.0	9.4	0.0	1.4	0.0	6.1	0.8	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	57.5
HCM 7th LOS	E

Intersection	
Int Delay, s/veh	1808.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	1	772	83	48	620	36	95	74	54	10	75	1
Future Vol, veh/h	1	772	83	48	620	36	95	74	54	10	75	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	821	88	51	660	38	101	79	57	11	80	1

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	698	0	0	910	0	0	1669	1668	865	1644	1693	679
Stage 1	-	-	-	-	-	-	868	868	-	781	781	-
Stage 2	-	-	-	-	-	-	802	800	-	863	912	-
Critical Hdwy	4.12	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.218	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	898	-	-	757	-	-	~ 77	97	356	81	94	455
Stage 1	-	-	-	-	-	-	350	373	-	391	408	-
Stage 2	-	-	-	-	-	-	381	400	-	352	356	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	898	-	-	757	-	-	~ 3	86	356	~ 6	83	455
Mov Cap-2 Maneuver	-	-	-	-	-	-	~ 3	86	-	~ 6	83	-
Stage 1	-	-	-	-	-	-	349	372	-	348	363	-
Stage 2	-	-	-	-	-	-	263	356	-	232	355	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.01	0.69	$ 14749.01	$ 1047.33
HCM LOS			F	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	7	2	-	-	121	-	-	33
HCM Lane V/C Ratio	31.633	0.001	-	-	0.067	-	-	2.755
HCM Control Delay (s/veh)	$ 14749	9	0	-	10.1	0	-	$ 1047.3
HCM Lane LOS	F	A	A	-	B	A	-	F
HCM 95th %tile Q(veh)	31.5	0	-	-	0.2	-	-	10.5

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Intersection Delay, s/veh	560.3
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	14	472	161	35	463	223	229	628	64	226	310	10
Future Vol, veh/h	14	472	161	35	463	223	229	628	64	226	310	10
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	2	2	2	0	0	0	2	2	2	3	3	3
Mvmt Flow	15	508	173	38	498	240	246	675	69	243	333	11
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	445.4	526.3	793.7	347.5
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	25%	2%	5%	41%
Vol Thru, %	68%	73%	64%	57%
Vol Right, %	7%	25%	31%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	921	647	721	546
LT Vol	229	14	35	226
Through Vol	628	472	463	310
RT Vol	64	161	223	10
Lane Flow Rate	990	696	775	587
Geometry Grp	1	1	1	1
Degree of Util (X)	2.652	1.833	2.029	1.585
Departure Headway (Hd)	18.567	22.768	21.387	25.128
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	208	167	178	153
Service Time	16.567	20.768	19.387	23.128
HCM Lane V/C Ratio	4.76	4.168	4.354	3.837
HCM Control Delay, s/veh	793.7	445.4	526.3	347.5
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	44.4	21.5	26.5	15.8

Intersection	
Int Delay, s/veh	1955.5

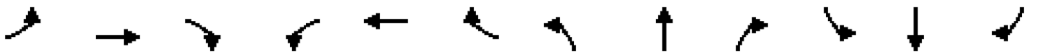
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	129	179	149	23	177	5	161	1069	18	4	597	111
Future Vol, veh/h	129	179	149	23	177	5	161	1069	18	4	597	111
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	3	3	3
Mvmt Flow	136	188	157	24	186	5	169	1125	19	4	628	117

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	2253	2178	687	2205	2227	1135	745	0	0	1144	0	0
Stage 1	695	695	-	1474	1474	-	-	-	-	-	-	-
Stage 2	1557	1483	-	731	754	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.227	-	-
Pot Cap-1 Maneuver	~ 29	~ 46	447	32	~ 43	246	863	-	-	607	-	-
Stage 1	432	444	-	158	191	-	-	-	-	-	-	-
Stage 2	141	189	-	413	417	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 13	~ 21	447	~ 9	~ 19	246	863	-	-	607	-	-
Mov Cap-2 Maneuver	~ 13	~ 21	-	~ 9	~ 19	-	-	-	-	-	-	-
Stage 1	427	438	-	72	~ 87	-	-	-	-	-	-	-
Stage 2	-	~ 86	-	151	412	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	$ 8767.32	$ 5458.01	1.31	0.06
HCM LOS	F	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	231	-	-	24	18	10	-	-
HCM Lane V/C Ratio	0.196	-	-	19.802	12.193	0.007	-	-
HCM Control Delay (s/veh)	10.2	0	-	$ 8767.3	$ 5458	11	0	-
HCM Lane LOS	B	A	-	F	F	B	A	-
HCM 95th %tile Q(veh)	0.7	-	-	60.1	27.7	0	-	-

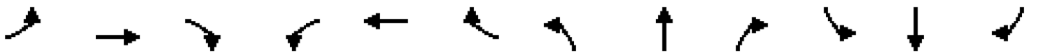
Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	322	511	441	48	383	329	473	1066	90	199	673	230
Future Volume (veh/h)	322	511	441	48	383	329	473	1066	90	199	673	230
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	339	538	464	51	403	346	498	1122	95	209	708	242
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	2	2	2	3	3	3
Cap, veh/h	300	1215	542	131	462	392	295	562	476	235	497	421
Arrive On Green	0.17	0.34	0.34	0.07	0.24	0.24	0.17	0.30	0.30	0.13	0.27	0.27
Sat Flow, veh/h	1810	3610	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Grp Volume(v), veh/h	339	538	464	51	403	346	498	1122	95	209	708	242
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Q Serve(g_s), s	21.0	14.7	34.1	3.4	25.8	26.3	21.0	38.1	5.7	14.8	34.0	16.9
Cycle Q Clear(g_c), s	21.0	14.7	34.1	3.4	25.8	26.3	21.0	38.1	5.7	14.8	34.0	16.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	300	1215	542	131	462	392	295	562	476	235	497	421
V/C Ratio(X)	1.13	0.44	0.86	0.39	0.87	0.88	1.69	2.00	0.20	0.89	1.42	0.57
Avail Cap(c_a), veh/h	300	1215	542	300	509	432	295	562	476	293	497	421
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.9	32.8	39.2	56.2	46.1	46.3	52.9	44.4	33.0	54.1	46.4	40.2
Incr Delay (d2), s/veh	92.4	0.4	13.3	0.7	15.3	19.0	324.3	454.3	0.2	20.7	202.1	2.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	16.9	6.3	14.8	1.5	13.7	12.2	35.7	87.9	2.1	7.9	43.5	6.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	145.3	33.2	52.5	56.9	61.4	65.3	377.3	498.7	33.2	74.8	248.6	42.5
LnGrp LOS	F	C	D	E	E	E	F	F	C	E	F	D
Approach Vol, veh/h		1341			800			1715			1159	
Approach Delay, s/veh		68.2			62.8			437.7			174.2	
Approach LOS		E			E			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	25.0	40.0	25.0	36.9	20.9	44.1	13.2	48.7
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	23.0	36.0	23.0	28.3	16.8	40.1	5.4	36.1
Green Ext Time (p_c), s	0.0	0.0	0.0	2.6	0.1	0.0	0.0	0.0

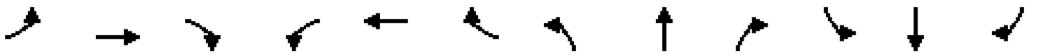
Intersection Summary	
HCM 7th Control Delay, s/veh	218.2
HCM 7th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	84	223	267	547	293	337	193	784	265	150	913	57
Future Volume (veh/h)	84	223	267	547	293	337	193	784	265	150	913	57
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	87	230	275	564	302	347	199	808	273	155	941	59
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	3	3	3
Cap, veh/h	126	370	314	268	208	239	230	1684	523	186	1549	481
Arrive On Green	0.07	0.20	0.20	0.15	0.26	0.26	0.13	0.33	0.33	0.10	0.31	0.31
Sat Flow, veh/h	1767	1856	1572	1781	794	912	1781	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	87	230	275	564	0	649	199	808	273	155	941	59
Grp Sat Flow(s),veh/h/ln	1767	1856	1572	1781	0	1706	1781	1702	1585	1767	1689	1572
Q Serve(g_s), s	4.9	11.6	17.4	15.4	0.0	26.9	11.2	12.9	14.3	8.8	16.2	2.8
Cycle Q Clear(g_c), s	4.9	11.6	17.4	15.4	0.0	26.9	11.2	12.9	14.3	8.8	16.2	2.8
Prop In Lane	1.00		1.00	1.00		0.53	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	126	370	314	268	0	448	230	1684	523	186	1549	481
V/C Ratio(X)	0.69	0.62	0.88	2.11	0.00	1.45	0.87	0.48	0.52	0.84	0.61	0.12
Avail Cap(c_a), veh/h	238	425	361	268	0	448	255	1958	608	253	1942	603
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.5	37.5	39.8	43.5	0.0	37.8	43.8	27.3	27.8	45.0	30.3	25.7
Incr Delay (d2), s/veh	2.5	2.5	19.6	510.8	0.0	214.2	22.0	0.7	2.6	12.1	1.3	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	5.4	8.2	44.5	0.0	37.4	6.3	5.3	5.6	4.5	6.7	1.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	49.0	40.0	59.4	554.3	0.0	252.0	65.7	28.0	30.4	57.1	31.6	26.0
LnGrp LOS	D	D	E	F		F	E	C	C	E	C	C
Approach Vol, veh/h		592			1213			1280			1155	
Approach Delay, s/veh		50.4			392.6			34.4			34.7	
Approach LOS		D			F			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.5	37.0	13.5	33.4	16.1	39.5	20.0	26.9
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	13.2	18.2	6.9	28.9	10.8	16.3	17.4	19.4
Green Ext Time (p_c), s	0.0	13.1	0.0	0.0	0.1	14.1	0.0	1.0

Intersection Summary	
HCM 7th Control Delay, s/veh	139.2
HCM 7th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	278	126	209	197	200	76	160	861	134	45	1252	449
Future Volume (veh/h)	278	126	209	197	200	76	160	861	134	45	1252	449
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	287	130	215	203	206	78	165	888	138	46	1291	463
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	0	0	0	2	2	2	3	3	3
Cap, veh/h	337	357	302	249	264	223	270	1979	614	101	1908	592
Arrive On Green	0.19	0.19	0.19	0.14	0.14	0.14	0.08	0.39	0.39	0.06	0.38	0.38
Sat Flow, veh/h	1781	1870	1585	1810	1900	1610	3456	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	287	130	215	203	206	78	165	888	138	46	1291	463
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1810	1900	1610	1728	1702	1585	1767	1689	1572
Q Serve(g_s), s	15.8	6.1	12.9	11.0	10.6	4.4	4.7	13.1	5.9	2.6	21.6	26.4
Cycle Q Clear(g_c), s	15.8	6.1	12.9	11.0	10.6	4.4	4.7	13.1	5.9	2.6	21.6	26.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	337	357	302	249	264	223	270	1979	614	101	1908	592
V/C Ratio(X)	0.85	0.36	0.71	0.82	0.78	0.35	0.61	0.45	0.22	0.45	0.68	0.78
Avail Cap(c_a), veh/h	469	443	375	393	362	307	273	1979	614	152	1949	605
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.7	35.7	38.4	42.5	42.2	39.5	45.2	23.0	20.8	46.2	26.4	27.9
Incr Delay (d2), s/veh	16.7	1.7	9.0	16.4	14.0	2.6	2.8	0.5	0.6	1.2	1.6	8.8
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.2	2.9	5.6	6.0	6.0	1.9	2.1	5.2	2.2	1.2	8.7	10.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	56.4	37.4	47.4	58.8	56.1	42.1	48.0	23.5	21.4	47.4	28.0	36.7
LnGrp LOS	E	D	D	E	E	D	D	C	C	D	C	D
Approach Vol, veh/h		632			487			1191			1800	
Approach Delay, s/veh		49.4			55.0			26.7			30.8	
Approach LOS		D			E			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.2	43.9	24.5	19.8	12.1	45.0	19.2	25.0
Change Period (Y+Rc), s	5.3	5.7	5.3	5.7	6.3	5.7	5.3	5.7
Max Green Setting (Gmax), s	8.0	39.0	26.7	19.3	8.7	37.3	22.0	24.0
Max Q Clear Time (g_c+I1), s	6.7	28.4	17.8	12.6	4.6	15.1	13.0	14.9
Green Ext Time (p_c), s	0.0	9.8	1.4	1.4	0.0	13.8	0.9	2.0

Intersection Summary	
HCM 7th Control Delay, s/veh	35.3
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	93.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	312	60	45	964	7	70	56	36	36	47	1
Future Vol, veh/h	0	312	60	45	964	7	70	56	36	36	47	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	1	1	1	0	0	0	0	0	0
Mvmt Flow	0	339	65	49	1048	8	76	61	39	39	51	1

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	1055	0	0	404	0	0	1543	1525	372	1519	1554	1052
Stage 1	-	-	-	-	-	-	372	372	-	1149	1149	-
Stage 2	-	-	-	-	-	-	1171	1153	-	370	404	-
Critical Hdwy	4.13	-	-	4.11	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.227	-	-	2.209	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	656	-	-	1160	-	-	95	119	679	98	114	278
Stage 1	-	-	-	-	-	-	653	623	-	244	275	-
Stage 2	-	-	-	-	-	-	237	274	-	655	602	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	656	-	-	1160	-	-	~ 45	107	679	~ 38	103	278
Mov Cap-2 Maneuver	-	-	-	-	-	-	~ 45	107	-	~ 38	103	-
Stage 1	-	-	-	-	-	-	653	623	-	219	247	-
Stage 2	-	-	-	-	-	-	168	246	-	557	602	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0	0.36	$ 722.9	$ 420.75
HCM LOS			F	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	76	656	-	-	80	-	-	60
HCM Lane V/C Ratio	2.325	-	-	-	0.042	-	-	1.53
HCM Control Delay (s/veh)	$ 722.9	0	-	-	8.2	0	-	$ 420.8
HCM Lane LOS	F	A	-	-	A	A	-	F
HCM 95th %tile Q(veh)	16.5	0	-	-	0.1	-	-	8.2

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Intersection Delay, s/veh	492.8
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	16	259	181	63	525	279	187	317	35	250	544	24
Future Vol, veh/h	16	259	181	63	525	279	187	317	35	250	544	24
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Heavy Vehicles, %	3	3	3	1	1	1	3	3	3	3	3	3
Mvmt Flow	16	267	187	65	541	288	193	327	36	258	561	25
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	199.1	649.5	296.9	619.6
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	35%	4%	7%	31%
Vol Thru, %	59%	57%	61%	67%
Vol Right, %	6%	40%	32%	3%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	539	456	867	818
LT Vol	187	16	63	250
Through Vol	317	259	525	544
RT Vol	35	181	279	24
Lane Flow Rate	556	470	894	843
Geometry Grp	1	1	1	1
Degree of Util (X)	1.494	1.23	2.343	2.27
Departure Headway (Hd)	20.679	22.13	15.793	16.701
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	183	169	241	228
Service Time	18.679	20.13	13.793	14.701
HCM Lane V/C Ratio	3.038	2.781	3.71	3.697
HCM Control Delay, s/veh	296.9	199.1	649.5	619.6
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	16.6	11.3	42.9	38.9

Intersection	
Int Delay, s/veh	563.3

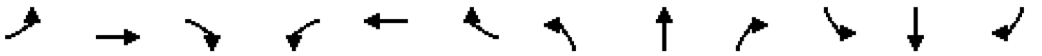
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	85	129	121	22	144	4	96	533	18	3	990	140
Future Vol, veh/h	85	129	121	22	144	4	96	533	18	3	990	140
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	3	3	3	3	3	3
Mvmt Flow	92	140	132	24	157	4	104	579	20	3	1076	152

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	2025	1966	1152	1951	2033	589	1228	0	0	599	0	0
Stage 1	1159	1159	-	798	798	-	-	-	-	-	-	-
Stage 2	866	808	-	1153	1235	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	~ 43	~ 63	241	48	~ 57	508	564	-	-	973	-	-
Stage 1	238	270	-	380	398	-	-	-	-	-	-	-
Stage 2	348	394	-	240	249	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 30	~ 45	241	~ 16	~ 41	508	564	-	-	973	-	-
Mov Cap-2 Maneuver	~ 30	~ 45	-	~ 16	~ 41	-	-	-	-	-	-	-
Stage 1	236	267	-	274	287	-	-	-	-	-	-	-
Stage 2	113	284	-	51	246	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	$ 2721.78	$ 2200.21	1.9	0.02
HCM LOS	F	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	265	-	-	54	34	5	-	-
HCM Lane V/C Ratio	0.185	-	-	6.721	5.376	0.003	-	-
HCM Control Delay (s/veh)	12.8	0	-	$ 2721.8	$ 2200.2	8.7	0	-
HCM Lane LOS	B	A	-	F	F	A	A	-
HCM 95th %tile Q(veh)	0.7	-	-	42	22	0	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	150	564	508	106	503	322	260	397	51	297	994	221
Future Volume (veh/h)	150	564	508	106	503	322	260	397	51	297	994	221
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	163	613	552	115	547	350	283	432	55	323	1080	240
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	190	1050	468	156	517	438	304	517	438	304	517	438
Arrive On Green	0.11	0.30	0.30	0.09	0.28	0.28	0.17	0.28	0.28	0.17	0.28	0.28
Sat Flow, veh/h	1767	3526	1572	1767	1856	1572	1767	1856	1572	1767	1856	1572
Grp Volume(v), veh/h	163	613	552	115	547	350	283	432	55	323	1080	240
Grp Sat Flow(s),veh/h/ln	1767	1763	1572	1767	1856	1572	1767	1856	1572	1767	1856	1572
Q Serve(g_s), s	11.1	18.1	36.4	7.8	34.0	25.2	19.3	26.7	3.2	21.0	34.0	15.9
Cycle Q Clear(g_c), s	11.1	18.1	36.4	7.8	34.0	25.2	19.3	26.7	3.2	21.0	34.0	15.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	190	1050	468	156	517	438	304	517	438	304	517	438
V/C Ratio(X)	0.86	0.58	1.18	0.74	1.06	0.80	0.93	0.84	0.13	1.06	2.09	0.55
Avail Cap(c_a), veh/h	304	1050	468	304	517	438	304	517	438	304	517	438
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.6	36.5	42.9	54.3	44.1	40.9	49.9	41.5	33.0	50.6	44.1	37.5
Incr Delay (d2), s/veh	7.5	1.1	100.8	2.5	56.1	10.9	33.6	11.5	0.1	69.3	497.5	1.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.1	7.6	26.5	3.4	22.9	10.6	11.1	13.4	1.2	15.1	86.8	6.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	61.1	37.5	143.7	56.8	100.2	51.8	83.5	53.0	33.1	119.9	541.6	39.4
LnGrp LOS	E	D	F	E	F	D	F	D	C	F	F	D
Approach Vol, veh/h		1328			1012			770			1643	
Approach Delay, s/veh		84.6			78.5			62.8			385.3	
Approach LOS		F			E			E			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	25.0	40.0	17.1	40.0	25.0	40.0	14.8	42.4
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	21.3	36.0	13.1	36.0	23.0	28.7	9.8	38.4
Green Ext Time (p_c), s	0.0	0.0	0.1	0.0	0.0	1.3	0.1	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	183.7
HCM 7th LOS	F

Intersection	
Int Delay, s/veh	2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	54	8	148	19	3	112
Future Vol, veh/h	54	8	148	19	3	112
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	59	9	161	21	3	122

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	299	171	0	0	182	0
Stage 1	171	-	-	-	-	-
Stage 2	128	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	692	873	-	-	1394	-
Stage 1	859	-	-	-	-	-
Stage 2	898	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	690	873	-	-	1394	-
Mov Cap-2 Maneuver	690	-	-	-	-	-
Stage 1	859	-	-	-	-	-
Stage 2	895	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	10.61	0	0.2
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	709	47	-
HCM Lane V/C Ratio	-	-	0.095	0.002	-
HCM Control Delay (s/veh)	-	-	10.6	7.6	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.3	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	314	0	0	399	0	21
Future Vol, veh/h	314	0	0	399	0	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	341	0	0	434	0	23

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	341
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	701
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	701
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.31
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	701	-	-	-
HCM Lane V/C Ratio	0.033	-	-	-
HCM Control Delay (s/veh)	10.3	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-

Intersection	
Int Delay, s/veh	0.6

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	333	2	22	399	0	28
Future Vol, veh/h	333	2	22	399	0	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	362	2	24	434	0	30

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	364	0	-	363
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	4.12	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	2.218	-	-	3.318
Pot Cap-1 Maneuver	-	-	1194	-	0	682
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1194	-	-	682
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.42	10.53
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	682	-	-	1194	-
HCM Lane V/C Ratio	0.045	-	-	0.02	-
HCM Control Delay (s/veh)	10.5	-	-	8.1	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

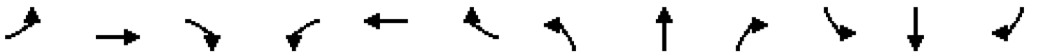
Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑			↑		↱
Traffic Vol, veh/h	358	2	0	421	0	28
Future Vol, veh/h	358	2	0	421	0	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	389	2	0	458	0	30

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	390
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	658
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	658
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.73
HCM LOS			B

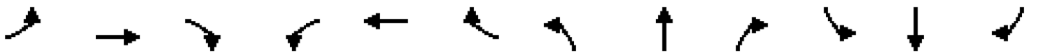
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	658	-	-	-
HCM Lane V/C Ratio	0.046	-	-	-
HCM Control Delay (s/veh)	10.7	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	259	237	526	255	259	215	889	670	252	655	42
Future Volume (veh/h)	22	259	237	526	255	259	215	889	670	252	655	42
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	24	282	258	572	277	282	234	966	728	274	712	46
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	0	0	0	1	1	1	0	0	0
Cap, veh/h	67	347	294	248	234	238	235	1800	559	237	1814	563
Arrive On Green	0.04	0.19	0.19	0.14	0.27	0.27	0.13	0.35	0.35	0.13	0.35	0.35
Sat Flow, veh/h	1781	1870	1585	1810	863	879	1795	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	24	282	258	572	0	559	234	966	728	274	712	46
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1810	0	1742	1795	1716	1598	1810	1729	1610
Q Serve(g_s), s	1.5	16.2	17.8	15.4	0.0	30.4	14.6	16.9	39.3	14.7	11.6	2.1
Cycle Q Clear(g_c), s	1.5	16.2	17.8	15.4	0.0	30.4	14.6	16.9	39.3	14.7	11.6	2.1
Prop In Lane	1.00		1.00	1.00		0.50	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	67	347	294	248	0	472	235	1800	559	237	1814	563
V/C Ratio(X)	0.36	0.81	0.88	2.31	0.00	1.18	1.00	0.54	1.30	1.16	0.39	0.08
Avail Cap(c_a), veh/h	219	391	332	248	0	472	235	1800	559	237	1814	563
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.7	43.9	44.5	48.5	0.0	41.0	48.8	29.2	36.5	48.8	27.5	24.4
Incr Delay (d2), s/veh	1.2	11.6	21.2	600.3	0.0	102.9	57.5	0.8	148.9	107.6	0.4	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	8.4	8.5	48.1	0.0	26.1	10.3	7.0	37.7	13.7	4.9	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	54.0	55.5	65.7	648.8	0.0	143.9	106.3	30.1	185.4	156.4	28.0	24.6
LnGrp LOS	D	E	E	F		F	F	C	F	F	C	C
Approach Vol, veh/h		564			1131			1928			1032	
Approach Delay, s/veh		60.1			399.2			98.0			61.9	
Approach LOS		E			F			F			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.0	45.0	10.4	36.9	20.0	45.0	20.0	27.4
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	16.6	13.6	3.5	32.4	16.7	41.3	17.4	19.8
Green Ext Time (p_c), s	0.0	11.4	0.0	0.0	0.0	0.0	0.0	1.1

Intersection Summary	
HCM 7th Control Delay, s/veh	158.6
HCM 7th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	449	255	333	246	210	107	273	1373	280	120	908	401
Future Volume (veh/h)	449	255	333	246	210	107	273	1373	280	120	908	401
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	473	268	351	259	221	113	287	1445	295	126	956	422
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	1	1	1	0	0	0
Cap, veh/h	435	415	352	297	271	229	251	1710	531	142	1803	560
Arrive On Green	0.24	0.22	0.22	0.16	0.14	0.14	0.07	0.33	0.33	0.08	0.35	0.35
Sat Flow, veh/h	1810	1900	1610	1810	1900	1610	3483	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	473	268	351	259	221	113	287	1445	295	126	956	422
Grp Sat Flow(s),veh/h/ln	1810	1900	1610	1810	1900	1610	1742	1716	1598	1810	1729	1610
Q Serve(g_s), s	26.7	14.3	24.2	15.5	12.6	7.2	8.0	29.0	16.8	7.7	16.4	25.8
Cycle Q Clear(g_c), s	26.7	14.3	24.2	15.5	12.6	7.2	8.0	29.0	16.8	7.7	16.4	25.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	435	415	352	297	271	229	251	1710	531	142	1803	560
V/C Ratio(X)	1.09	0.65	1.00	0.87	0.82	0.49	1.15	0.84	0.56	0.89	0.53	0.75
Avail Cap(c_a), veh/h	435	415	352	358	330	279	251	1726	536	142	1819	565
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	42.2	39.5	43.4	45.3	46.3	44.0	51.6	34.5	30.4	50.8	29.0	32.1
Incr Delay (d2), s/veh	69.2	5.5	47.5	22.9	17.8	4.5	101.7	4.9	3.2	43.6	0.8	8.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	19.9	7.1	14.0	8.8	7.2	3.1	7.0	12.7	6.7	5.2	6.9	10.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	111.4	45.0	90.9	68.2	64.1	48.4	153.3	39.4	33.6	94.4	29.9	40.1
LnGrp LOS	F	D	F	E	E	D	F	D	C	F	C	D
Approach Vol, veh/h		1092			593			2027			1504	
Approach Delay, s/veh		88.5			62.9			54.7			38.1	
Approach LOS		F			E			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.3	44.3	32.0	21.5	15.0	42.6	23.6	30.0
Change Period (Y+Rc), s	5.3	5.7	5.3	5.7	6.3	5.7	5.3	5.7
Max Green Setting (Gmax), s	8.0	39.0	26.7	19.3	8.7	37.3	22.0	24.0
Max Q Clear Time (g_c+I1), s	10.0	27.8	28.7	14.6	9.7	31.0	17.5	26.2
Green Ext Time (p_c), s	0.0	9.4	0.0	1.3	0.0	6.0	0.7	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	57.9
HCM 7th LOS	E

Intersection	
Int Delay, s/veh	674.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	1	783	85	59	622	36	101	74	59	10	75	1
Future Vol, veh/h	1	783	85	59	622	36	101	74	59	10	75	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	833	90	63	662	38	107	79	63	11	80	1

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	700	0	0	923	0	0	1707	1706	878	1681	1732	681
Stage 1	-	-	-	-	-	-	880	880	-	806	806	-
Stage 2	-	-	-	-	-	-	827	826	-	874	926	-
Critical Hdwy	4.12	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.218	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	897	-	-	748	-	-	~ 73	92	350	76	89	454
Stage 1	-	-	-	-	-	-	344	368	-	378	397	-
Stage 2	-	-	-	-	-	-	369	390	-	347	350	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	897	-	-	748	-	-	~ 62	79	350	~ 0	~ 76	454
Mov Cap-2 Maneuver	-	-	-	-	-	-	~ 62	79	-	~ 0	~ 76	-
Stage 1	-	-	-	-	-	-	344	367	-	326	343	-
Stage 2	-	-	-	-	-	-	243	336	-	223	349	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.01	0.84	$ 959.68	$ 12330.88
HCM LOS			F	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	86	2	-	-	147	-	-	4
HCM Lane V/C Ratio	2.896	0.001	-	-	0.084	-	-	24.239
HCM Control Delay (s/veh)	$ 959.7	9	0	-	10.3	0	-	$ 12330.9
HCM Lane LOS	F	A	A	-	B	A	-	F
HCM 95th %tile Q(veh)	24.2	0	-	-	0.3	-	-	13.5

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Intersection Delay, s/veh	604.9
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	17	497	180	35	505	223	260	628	64	226	310	15
Future Vol, veh/h	17	497	180	35	505	223	260	628	64	226	310	15
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	2	2	2	0	0	0	2	2	2	3	3	3
Mvmt Flow	18	534	194	38	543	240	280	675	69	243	333	16
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	505.9	582.4	837	359.9
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	27%	2%	5%	41%
Vol Thru, %	66%	72%	66%	56%
Vol Right, %	7%	26%	29%	3%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	952	694	763	551
LT Vol	260	17	35	226
Through Vol	628	497	505	310
RT Vol	64	180	223	15
Lane Flow Rate	1024	746	820	592
Geometry Grp	1	1	1	1
Degree of Util (X)	2.743	1.965	2.149	1.599
Departure Headway (Hd)	19.749	24.118	22.793	27.439
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	194	164	172	142
Service Time	17.749	22.118	20.793	25.439
HCM Lane V/C Ratio	5.278	4.549	4.767	4.169
HCM Control Delay, s/veh	837	505.9	582.4	359.9
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	44	22.8	27.3	15.1

Intersection	
Int Delay, s/veh	2292.8

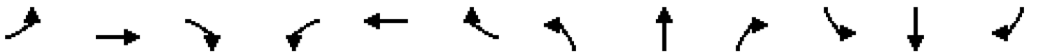
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	129	179	149	23	177	5	161	1100	18	4	616	111
Future Vol, veh/h	129	179	149	23	177	5	161	1100	18	4	616	111
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	3	3	3
Mvmt Flow	136	188	157	24	186	5	169	1158	19	4	648	117

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	2305	2231	707	2257	2280	1167	765	0	0	1177	0	0
Stage 1	715	715	-	1506	1506	-	-	-	-	-	-	-
Stage 2	1590	1516	-	751	774	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.227	-	-
Pot Cap-1 Maneuver	~ 27	~ 43	435	29	~ 40	236	848	-	-	590	-	-
Stage 1	422	434	-	151	~ 184	-	-	-	-	-	-	-
Stage 2	~ 135	~ 182	-	403	408	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 11	~ 18	435	~ 8	~ 16	236	848	-	-	590	-	-
Mov Cap-2 Maneuver	~ 11	~ 18	-	~ 8	~ 16	-	-	-	-	-	-	-
Stage 1	416	429	-	63	~ 77	-	-	-	-	-	-	-
Stage 2	-	~ 76	-	143	403	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	$ 10462.47	$ 6553.01	1.3	0.06
HCM LOS	F	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	226	-	-	21	15	10	-	-
HCM Lane V/C Ratio	0.2	-	-	23.449	14.462	0.007	-	-
HCM Control Delay (s/veh)	10.3	0	$ 10462.5	$ 6553	11.1	0	-	
HCM Lane LOS	B	A	-	F	F	B	A	-
HCM 95th %tile Q(veh)	0.7	-	-	60.5	28	0	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	322	511	441	48	383	329	473	1097	90	199	692	230
Future Volume (veh/h)	322	511	441	48	383	329	473	1097	90	199	692	230
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	339	538	464	51	403	346	498	1155	95	209	728	242
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	2	2	2	3	3	3
Cap, veh/h	300	1215	542	131	462	392	295	562	476	235	497	421
Arrive On Green	0.17	0.34	0.34	0.07	0.24	0.24	0.17	0.30	0.30	0.13	0.27	0.27
Sat Flow, veh/h	1810	3610	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Grp Volume(v), veh/h	339	538	464	51	403	346	498	1155	95	209	728	242
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Q Serve(g_s), s	21.0	14.7	34.1	3.4	25.8	26.3	21.0	38.1	5.7	14.8	34.0	16.9
Cycle Q Clear(g_c), s	21.0	14.7	34.1	3.4	25.8	26.3	21.0	38.1	5.7	14.8	34.0	16.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	300	1215	542	131	462	392	295	562	476	235	497	421
V/C Ratio(X)	1.13	0.44	0.86	0.39	0.87	0.88	1.69	2.05	0.20	0.89	1.46	0.57
Avail Cap(c_a), veh/h	300	1215	542	300	509	432	295	562	476	293	497	421
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.9	32.8	39.2	56.2	46.1	46.3	52.9	44.4	33.0	54.1	46.4	40.2
Incr Delay (d2), s/veh	92.4	0.4	13.3	0.7	15.3	19.0	324.3	480.6	0.2	20.7	219.6	2.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	16.9	6.3	14.8	1.5	13.7	12.2	35.7	92.0	2.1	7.9	45.9	6.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	145.3	33.2	52.5	56.9	61.4	65.3	377.3	525.0	33.2	74.8	266.1	42.5
LnGrp LOS	F	C	D	E	E	E	F	F	C	E	F	D
Approach Vol, veh/h		1341			800			1748			1179	
Approach Delay, s/veh		68.2			62.8			456.2			186.3	
Approach LOS		E			E			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	25.0	40.0	25.0	36.9	20.9	44.1	13.2	48.7
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	23.0	36.0	23.0	28.3	16.8	40.1	5.4	36.1
Green Ext Time (p_c), s	0.0	0.0	0.0	2.6	0.1	0.0	0.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	228.6
HCM 7th LOS	F

Intersection	
Int Delay, s/veh	1.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	36	6	175	61	9	197
Future Vol, veh/h	36	6	175	61	9	197
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	39	7	190	66	10	214

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	457	223	0	0	257	0
Stage 1	223	-	-	-	-	-
Stage 2	234	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	562	816	-	-	1308	-
Stage 1	814	-	-	-	-	-
Stage 2	805	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	557	816	-	-	1308	-
Mov Cap-2 Maneuver	557	-	-	-	-	-
Stage 1	814	-	-	-	-	-
Stage 2	798	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	11.7	0	0.34
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	583	79	-
HCM Lane V/C Ratio	-	-	0.078	0.007	-
HCM Control Delay (s/veh)	-	-	11.7	7.8	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.3	0	-

Intersection	
Int Delay, s/veh	0.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	389	2	0	427	0	14
Future Vol, veh/h	389	2	0	427	0	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	423	2	0	464	0	15

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	888	424
Stage 1	-	-	-	-	424	-
Stage 2	-	-	-	-	464	-
Critical Hdwy	-	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	0	-	314	630
Stage 1	-	-	0	-	660	-
Stage 2	-	-	0	-	633	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	314	630
Mov Cap-2 Maneuver	-	-	-	-	314	-
Stage 1	-	-	-	-	660	-
Stage 2	-	-	-	-	633	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.85
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	630	-	-	-
HCM Lane V/C Ratio	0.024	-	-	-
HCM Control Delay (s/veh)	10.9	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-

Intersection	
Int Delay, s/veh	0.9

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	397	6	71	427	0	19
Future Vol, veh/h	397	6	71	427	0	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	432	7	77	464	0	21

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	438	0	1053	435
Stage 1	-	-	-	-	435	-
Stage 2	-	-	-	-	618	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1122	-	250	621
Stage 1	-	-	-	-	653	-
Stage 2	-	-	-	-	537	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1122	-	227	621
Mov Cap-2 Maneuver	-	-	-	-	227	-
Stage 1	-	-	-	-	653	-
Stage 2	-	-	-	-	488	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	1.2	10.99
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	621	-	-	1122	-
HCM Lane V/C Ratio	0.033	-	-	0.069	-
HCM Control Delay (s/veh)	11	-	-	8.4	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.2	-

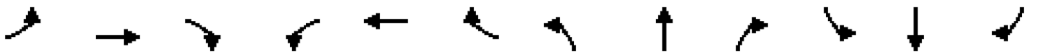
Intersection	
Int Delay, s/veh	0.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	408	8	0	498	0	19
Future Vol, veh/h	408	8	0	498	0	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	443	9	0	541	0	21

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	989	448
Stage 1	-	-	-	-	448	-
Stage 2	-	-	-	-	541	-
Critical Hdwy	-	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	0	-	274	611
Stage 1	-	-	0	-	644	-
Stage 2	-	-	0	-	583	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	274	611
Mov Cap-2 Maneuver	-	-	-	-	274	-
Stage 1	-	-	-	-	644	-
Stage 2	-	-	-	-	583	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	11.1
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	611	-	-	-
HCM Lane V/C Ratio	0.034	-	-	-
HCM Control Delay (s/veh)	11.1	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	80	129	182	32	135	135	103	693	31	66	611	54
Future Volume (veh/h)	80	129	182	32	135	135	103	693	31	66	611	54
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	82	133	188	33	139	139	106	714	32	68	630	56
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	3	3	3
Cap, veh/h	157	491	416	95	178	178	173	1511	469	145	1423	442
Arrive On Green	0.09	0.26	0.26	0.05	0.21	0.21	0.10	0.30	0.30	0.08	0.28	0.28
Sat Flow, veh/h	1767	1856	1572	1781	858	858	1781	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	82	133	188	33	0	278	106	714	32	68	630	56
Grp Sat Flow(s),veh/h/ln	1767	1856	1572	1781	0	1716	1781	1702	1585	1767	1689	1572
Q Serve(g_s), s	3.2	4.1	7.3	1.3	0.0	11.2	4.2	8.3	1.1	2.7	7.4	1.9
Cycle Q Clear(g_c), s	3.2	4.1	7.3	1.3	0.0	11.2	4.2	8.3	1.1	2.7	7.4	1.9
Prop In Lane	1.00		1.00	1.00		0.50	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	157	491	416	95	0	356	173	1511	469	145	1423	442
V/C Ratio(X)	0.52	0.27	0.45	0.35	0.00	0.78	0.61	0.47	0.07	0.47	0.44	0.13
Avail Cap(c_a), veh/h	335	599	508	377	0	554	360	2757	856	357	2735	849
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.7	21.2	22.3	33.2	0.0	27.3	31.6	21.0	18.4	31.9	21.5	19.5
Incr Delay (d2), s/veh	1.0	0.3	0.8	2.1	0.0	8.1	1.3	0.2	0.1	0.9	0.7	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	1.7	2.5	0.6	0.0	5.0	1.8	3.2	0.4	1.1	2.9	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	32.7	21.5	23.1	35.4	0.0	35.4	32.9	21.2	18.5	32.8	22.2	19.9
LnGrp LOS	C	C	C	D		D	C	C	B	C	C	B
Approach Vol, veh/h		403			311			852			754	
Approach Delay, s/veh		24.5			35.4			22.6			23.0	
Approach LOS		C			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.4	26.2	12.7	21.6	11.3	27.2	8.5	25.8
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	6.2	9.4	5.2	13.2	4.7	10.3	3.3	9.3
Green Ext Time (p_c), s	0.1	11.0	0.0	1.9	0.0	5.6	0.0	1.1

Intersection Summary	
HCM 7th Control Delay, s/veh	24.8
HCM 7th LOS	C

Movement	EBL	EBR	NBL	NBT	SBU	SBT	SBR
Lane Configurations							
Traffic Volume (veh/h)	165	167	88	685	0	758	99
Future Volume (veh/h)	165	167	88	685	0	758	99
Initial Q (Qb), veh	0	0	0	0		0	0
Lane Width Adj.	1.00	1.00	1.00	1.00		1.00	1.00
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00				1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Work Zone On Approach	No			No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870		1856	1856
Adj Flow Rate, veh/h	170	172	91	706		781	102
Peak Hour Factor	0.97	0.97	0.97	0.97		0.97	0.97
Percent Heavy Veh, %	2	2	2	2		3	3
Cap, veh/h	329	293	386	3098		1903	591
Arrive On Green	0.18	0.18	0.11	0.61		0.38	0.38
Sat Flow, veh/h	1781	1585	3456	5274		5233	1572
Grp Volume(v), veh/h	170	172	91	706		781	102
Grp Sat Flow(s),veh/h/ln	1781	1585	1728	1702		1689	1572
Q Serve(g_s), s	4.5	5.2	1.3	3.3		6.0	2.3
Cycle Q Clear(g_c), s	4.5	5.2	1.3	3.3		6.0	2.3
Prop In Lane	1.00	1.00	1.00				1.00
Lane Grp Cap(c), veh/h	329	293	386	3098		1903	591
V/C Ratio(X)	0.52	0.59	0.24	0.23		0.41	0.17
Avail Cap(c_a), veh/h	834	742	898	3098		2814	874
HCM Platoon Ratio	1.00	1.00	1.00	1.00		1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00		1.00	1.00
Uniform Delay (d), s/veh	19.4	19.7	21.4	4.7		12.2	11.0
Incr Delay (d2), s/veh	3.4	5.1	0.1	0.1		0.5	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	2.1	0.5	0.8		2.0	0.8
Unsig. Movement Delay, s/veh							
LnGrp Delay(d), s/veh	22.8	24.8	21.5	4.9		12.6	11.5
LnGrp LOS	C	C	C	A		B	B
Approach Vol, veh/h	342			797		883	
Approach Delay, s/veh	23.8			6.8		12.5	
Approach LOS	C			A		B	

Timer - Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	12.2	25.5				37.7		15.0
Change Period (Y+Rc), s	6.3	5.7				5.7		5.3
Max Green Setting (Gmax), s	13.7	29.3				29.3		24.7
Max Q Clear Time (g_c+I1), s	3.3	8.0				5.3		7.2
Green Ext Time (p_c), s	0.1	11.8				10.6		2.6

Intersection Summary	
HCM 7th Control Delay, s/veh	12.1
HCM 7th LOS	B

Notes

User approved ignoring U-Turning movement.

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	224	0	0	344	1	0	0	0	1	0	0
Future Vol, veh/h	0	224	0	0	344	1	0	0	0	1	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	81	81	81	81	81	81	81	81	81	81	81	81
Heavy Vehicles, %	3	3	3	1	1	1	0	0	0	0	0	0
Mvmt Flow	0	277	0	0	425	1	0	0	0	1	0	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	426	0	-	-	-	0	701	702	277	702	702	425
Stage 1	-	-	-	-	-	-	277	277	-	425	425	-
Stage 2	-	-	-	-	-	-	425	426	-	277	277	-
Critical Hdwy	4.13	-	-	-	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.227	-	-	-	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1128	-	0	0	-	-	356	365	767	356	365	633
Stage 1	-	-	0	0	-	-	734	685	-	611	590	-
Stage 2	-	-	0	0	-	-	611	589	-	734	685	-
Platoon blocked, %		-			-	-						
Mov Cap-1 Maneuver	1128	-	-	-	-	-	356	365	767	356	365	633
Mov Cap-2 Maneuver	-	-	-	-	-	-	356	365	-	356	365	-
Stage 1	-	-	-	-	-	-	734	685	-	611	590	-
Stage 2	-	-	-	-	-	-	611	589	-	734	685	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0	0	0	15.16
HCM LOS			A	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	1128	-	-	-	356
HCM Lane V/C Ratio	-	-	-	-	-	0.003
HCM Control Delay (s/veh)	0	0	-	-	-	15.2
HCM Lane LOS	A	A	-	-	-	C
HCM 95th %tile Q(veh)	-	0	-	-	-	0

Intersection	
Intersection Delay, s/veh	59.5
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	4	155	67	25	220	253	65	240	19	175	207	3
Future Vol, veh/h	4	155	67	25	220	253	65	240	19	175	207	3
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.92	0.97	0.97	0.97	0.97
Heavy Vehicles, %	3	3	3	1	1	1	3	3	3	3	3	3
Mvmt Flow	4	160	69	26	227	261	67	261	20	180	213	3
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	23.1	96.7	38.7	50.8
HCM LOS	C	F	E	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	20%	2%	5%	45%
Vol Thru, %	74%	69%	44%	54%
Vol Right, %	6%	30%	51%	1%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	324	226	498	385
LT Vol	65	4	25	175
Through Vol	240	155	220	207
RT Vol	19	67	253	3
Lane Flow Rate	347	233	513	397
Geometry Grp	1	1	1	1
Degree of Util (X)	0.802	0.562	1.093	0.892
Departure Headway (Hd)	8.689	9.064	7.664	8.581
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	420	401	472	425
Service Time	6.689	7.064	5.707	6.581
HCM Lane V/C Ratio	0.826	0.581	1.087	0.934
HCM Control Delay, s/veh	38.7	23.1	96.7	50.8
HCM Lane LOS	E	C	F	F
HCM 95th-tile Q	7.2	3.3	16.8	9.3

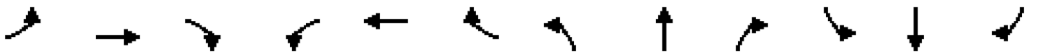
Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	8	0	3	4	0	2	3	309	11	2	337	6
Future Vol, veh/h	8	0	3	4	0	2	3	309	11	2	337	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2	3	3	3	3	3	3
Mvmt Flow	9	0	3	4	0	2	3	340	12	2	370	7

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	724	736	374	727	734	346	377	0	0	352	0	0
Stage 1	378	378	-	352	352	-	-	-	-	-	-	-
Stage 2	346	358	-	375	381	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	341	346	673	339	348	697	1176	-	-	1202	-	-
Stage 1	644	615	-	665	631	-	-	-	-	-	-	-
Stage 2	670	628	-	646	613	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	338	344	673	336	346	697	1176	-	-	1202	-	-
Mov Cap-2 Maneuver	338	344	-	336	346	-	-	-	-	-	-	-
Stage 1	642	614	-	662	629	-	-	-	-	-	-	-
Stage 2	665	625	-	642	612	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	14.5	14.01	0.07	0.05
HCM LOS	B	B		

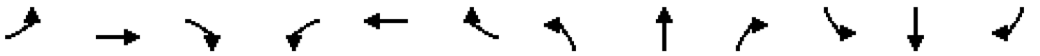
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	17	-	-	391	406	10	-	-
HCM Lane V/C Ratio	0.003	-	-	0.031	0.016	0.002	-	-
HCM Control Delay (s/veh)	8.1	0	-	14.5	14	8	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	34	318	128	14	265	137	120	152	18	91	193	34
Future Volume (veh/h)	34	318	128	14	265	137	120	152	18	91	193	34
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	37	346	139	15	288	149	130	165	20	99	210	37
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	150	978	436	72	432	366	293	348	295	267	320	272
Arrive On Green	0.09	0.28	0.28	0.04	0.23	0.23	0.17	0.19	0.19	0.15	0.17	0.17
Sat Flow, veh/h	1767	3526	1572	1767	1856	1572	1767	1856	1572	1767	1856	1572
Grp Volume(v), veh/h	37	346	139	15	288	149	130	165	20	99	210	37
Grp Sat Flow(s),veh/h/ln	1767	1763	1572	1767	1856	1572	1767	1856	1572	1767	1856	1572
Q Serve(g_s), s	1.1	4.6	4.1	0.5	8.2	4.7	3.9	4.6	0.6	2.9	6.1	1.2
Cycle Q Clear(g_c), s	1.1	4.6	4.1	0.5	8.2	4.7	3.9	4.6	0.6	2.9	6.1	1.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	150	978	436	72	432	366	293	348	295	267	320	272
V/C Ratio(X)	0.25	0.35	0.32	0.21	0.67	0.41	0.44	0.47	0.07	0.37	0.66	0.14
Avail Cap(c_a), veh/h	637	2058	918	637	1083	918	637	1083	918	637	1083	918
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	24.9	16.9	16.7	27.0	20.3	18.9	21.9	21.1	19.5	22.2	22.5	20.4
Incr Delay (d2), s/veh	0.3	0.3	0.6	0.5	2.9	1.2	0.4	1.1	0.1	0.3	3.2	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	1.6	1.3	0.2	3.3	1.5	1.4	1.8	0.2	1.2	2.8	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	25.2	17.2	17.3	27.6	23.2	20.1	22.3	22.2	19.6	22.6	25.7	20.7
LnGrp LOS	C	B	B	C	C	C	C	C	B	C	C	C
Approach Vol, veh/h		522			452			315			346	
Approach Delay, s/veh		17.8			22.3			22.0			24.3	
Approach LOS		B			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.7	16.1	9.0	19.6	12.8	16.9	6.4	22.1
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	5.9	8.1	3.1	10.2	4.9	6.6	2.5	6.6
Green Ext Time (p_c), s	0.1	1.9	0.0	3.4	0.1	0.9	0.0	3.9

Intersection Summary	
HCM 7th Control Delay, s/veh	21.2
HCM 7th LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	104	121	55	138	119	119	731	54	95	560	40
Future Volume (veh/h)	21	104	121	55	138	119	119	731	54	95	560	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	24	121	141	64	160	138	138	850	63	110	651	47
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %	2	2	2	0	0	0	1	1	1	0	0	0
Cap, veh/h	74	369	313	141	200	173	178	1760	546	171	1750	543
Arrive On Green	0.04	0.20	0.20	0.08	0.21	0.21	0.10	0.34	0.34	0.09	0.34	0.34
Sat Flow, veh/h	1781	1870	1585	1810	942	812	1795	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	24	121	141	64	0	298	138	850	63	110	651	47
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1810	0	1754	1795	1716	1598	1810	1729	1610
Q Serve(g_s), s	1.0	4.3	6.0	2.6	0.0	12.3	5.7	10.0	2.1	4.5	7.3	1.5
Cycle Q Clear(g_c), s	1.0	4.3	6.0	2.6	0.0	12.3	5.7	10.0	2.1	4.5	7.3	1.5
Prop In Lane	1.00		1.00	1.00		0.46	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	74	369	313	141	0	373	178	1760	546	171	1750	543
V/C Ratio(X)	0.32	0.33	0.45	0.46	0.00	0.80	0.78	0.48	0.12	0.64	0.37	0.09
Avail Cap(c_a), veh/h	321	574	486	364	0	538	345	2641	820	347	2661	826
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	35.6	26.4	27.1	33.8	0.0	28.6	33.7	19.9	17.3	33.4	19.2	17.3
Incr Delay (d2), s/veh	0.9	0.6	1.2	0.9	0.0	9.4	2.8	0.7	0.3	1.5	0.4	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	1.8	2.2	1.1	0.0	5.8	2.6	3.9	0.7	2.0	2.8	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	36.6	27.0	28.3	34.6	0.0	38.0	36.4	20.5	17.6	35.0	19.7	17.5
LnGrp LOS	D	C	C	C		D	D	C	B	C	B	B
Approach Vol, veh/h		286			362			1051			808	
Approach Delay, s/veh		28.4			37.4			22.4			21.6	
Approach LOS		C			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.9	31.5	9.4	22.8	12.5	31.9	10.6	21.6
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	7.7	9.3	3.0	14.3	6.5	12.0	4.6	8.0
Green Ext Time (p_c), s	0.1	11.3	0.0	1.9	0.1	14.2	0.0	1.1

Intersection Summary	
HCM 7th Control Delay, s/veh	25.0
HCM 7th LOS	C

Movement	EBL	EBR	NBL	NBT	SBU	SBT	SBR
Lane Configurations							
Traffic Volume (veh/h)	114	193	199	855	0	671	89
Future Volume (veh/h)	114	193	199	855	0	671	89
Initial Q (Qb), veh	0	0	0	0		0	0
Lane Width Adj.	1.00	1.00	1.00	1.00		1.00	1.00
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00				1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Work Zone On Approach	No			No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870		1856	1856
Adj Flow Rate, veh/h	120	203	209	900		706	94
Peak Hour Factor	0.95	0.95	0.95	0.95		0.95	0.95
Percent Heavy Veh, %	2	2	2	2		3	3
Cap, veh/h	348	310	484	3044		1727	536
Arrive On Green	0.20	0.20	0.14	0.60		0.34	0.34
Sat Flow, veh/h	1781	1585	3456	5274		5233	1572
Grp Volume(v), veh/h	120	203	209	900		706	94
Grp Sat Flow(s),veh/h/ln	1781	1585	1728	1702		1689	1572
Q Serve(g_s), s	3.2	6.5	3.0	4.7		5.8	2.3
Cycle Q Clear(g_c), s	3.2	6.5	3.0	4.7		5.8	2.3
Prop In Lane	1.00	1.00	1.00				1.00
Lane Grp Cap(c), veh/h	348	310	484	3044		1727	536
V/C Ratio(X)	0.34	0.65	0.43	0.30		0.41	0.18
Avail Cap(c_a), veh/h	791	704	865	3044		2711	842
HCM Platoon Ratio	1.00	1.00	1.00	1.00		1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00		1.00	1.00
Uniform Delay (d), s/veh	19.0	20.3	21.5	5.4		13.8	12.6
Incr Delay (d2), s/veh	1.6	6.3	0.2	0.2		0.5	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	2.6	1.1	1.2		2.0	0.8
Unsig. Movement Delay, s/veh							
LnGrp Delay(d), s/veh	20.6	26.6	21.8	5.6		14.3	13.2
LnGrp LOS	C	C	C	A		B	B
Approach Vol, veh/h	323			1109		800	
Approach Delay, s/veh	24.4			8.7		14.2	
Approach LOS	C			A		B	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	14.0	24.4			38.3	16.4
Change Period (Y+Rc), s	6.3	5.7			5.7	5.7
Max Green Setting (Gmax), s	13.7	29.3			29.3	24.3
Max Q Clear Time (g_c+I1), s	5.0	7.8			6.7	8.5
Green Ext Time (p_c), s	0.2	10.8			12.9	2.3

Intersection Summary	
HCM 7th Control Delay, s/veh	12.9
HCM 7th LOS	B

Notes

User approved ignoring U-Turning movement.

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	241	0	0	293	0	0	0	0	0	0	1
Future Vol, veh/h	1	241	0	0	293	0	0	0	0	0	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	256	0	0	312	0	0	0	0	0	0	1

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	312	0	-	-	-	0	570	570	256	570	570	312
Stage 1	-	-	-	-	-	-	259	259	-	312	312	-
Stage 2	-	-	-	-	-	-	312	312	-	259	259	-
Critical Hdwy	4.12	-	-	-	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.218	-	-	-	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1249	-	0	0	-	-	435	434	787	435	434	733
Stage 1	-	-	0	0	-	-	751	698	-	703	661	-
Stage 2	-	-	0	0	-	-	703	661	-	751	698	-
Platoon blocked, %		-			-	-						
Mov Cap-1 Maneuver	1249	-	-	-	-	-	434	434	787	435	434	733
Mov Cap-2 Maneuver	-	-	-	-	-	-	434	434	-	435	434	-
Stage 1	-	-	-	-	-	-	750	697	-	703	661	-
Stage 2	-	-	-	-	-	-	702	661	-	750	697	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.03	0	0	9.92
HCM LOS			A	A

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	7	-	-	-	733
HCM Lane V/C Ratio	-	0.001	-	-	-	0.001
HCM Control Delay (s/veh)	0	7.9	0	-	-	9.9
HCM Lane LOS	A	A	A	-	-	A
HCM 95th %tile Q(veh)	-	0	-	-	-	0

Intersection	
Intersection Delay, s/veh	56.1
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	2	192	43	15	225	179	61	259	30	187	168	2
Future Vol, veh/h	2	192	43	15	225	179	61	259	30	187	168	2
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	2	2	2	0	0	0	2	2	2	3	3	3
Mvmt Flow	2	206	46	16	242	192	66	278	32	201	181	2
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	27.2	77	50.8	56
HCM LOS	D	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	17%	1%	4%	52%
Vol Thru, %	74%	81%	54%	47%
Vol Right, %	9%	18%	43%	1%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	350	237	419	357
LT Vol	61	2	15	187
Through Vol	259	192	225	168
RT Vol	30	43	179	2
Lane Flow Rate	376	255	451	384
Geometry Grp	1	1	1	1
Degree of Util (X)	0.889	0.638	1.02	0.916
Departure Headway (Hd)	8.714	9.246	8.148	8.796
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	418	392	451	415
Service Time	6.714	7.246	6.148	6.796
HCM Lane V/C Ratio	0.9	0.651	1	0.925
HCM Control Delay, s/veh	50.8	27.2	77	56
HCM Lane LOS	F	D	F	F
HCM 95th-tile Q	9.2	4.3	13.6	9.9

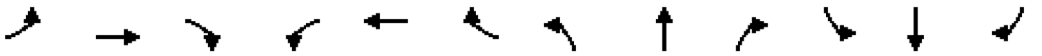
Intersection	
Int Delay, s/veh	0.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	0	2	9	0	2	0	338	2	0	250	1
Future Vol, veh/h	0	0	2	9	0	2	0	338	2	0	250	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	3	3	3
Mvmt Flow	0	0	2	9	0	2	0	356	2	0	263	1

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	619	622	264	620	621	357	264	0	0	358	0	0
Stage 1	264	264	-	357	357	-	-	-	-	-	-	-
Stage 2	356	358	-	263	264	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.227	-	-
Pot Cap-1 Maneuver	401	403	775	400	403	687	1300	-	-	1195	-	-
Stage 1	741	690	-	661	628	-	-	-	-	-	-	-
Stage 2	662	628	-	742	690	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	399	403	775	399	403	687	1300	-	-	1195	-	-
Mov Cap-2 Maneuver	399	403	-	399	403	-	-	-	-	-	-	-
Stage 1	741	690	-	661	628	-	-	-	-	-	-	-
Stage 2	660	628	-	740	690	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	9.66	13.56	0	0
HCM LOS	A	B		

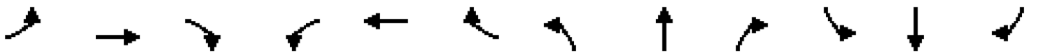
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1300	-	-	775	432	1195	-	-
HCM Lane V/C Ratio	-	-	-	0.003	0.027	-	-	-
HCM Control Delay (s/veh)	0	-	-	9.7	13.6	0	-	-
HCM Lane LOS	A	-	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.1	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	44	295	111	6	240	88	129	205	24	48	169	36
Future Volume (veh/h)	44	295	111	6	240	88	129	205	24	48	169	36
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	46	311	117	6	253	93	136	216	25	51	178	38
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	2	2	2	3	3	3
Cap, veh/h	183	1047	467	32	393	333	311	415	352	191	288	244
Arrive On Green	0.10	0.29	0.29	0.02	0.21	0.21	0.17	0.22	0.22	0.11	0.16	0.16
Sat Flow, veh/h	1810	3610	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Grp Volume(v), veh/h	46	311	117	6	253	93	136	216	25	51	178	38
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Q Serve(g_s), s	1.3	3.7	3.1	0.2	6.7	2.7	3.8	5.6	0.7	1.5	4.9	1.2
Cycle Q Clear(g_c), s	1.3	3.7	3.1	0.2	6.7	2.7	3.8	5.6	0.7	1.5	4.9	1.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	183	1047	467	32	393	333	311	415	352	191	288	244
V/C Ratio(X)	0.25	0.30	0.25	0.19	0.64	0.28	0.44	0.52	0.07	0.27	0.62	0.16
Avail Cap(c_a), veh/h	689	2225	992	689	1171	992	678	1153	977	673	1143	969
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.9	15.2	15.0	26.7	20.0	18.4	20.3	18.9	17.0	22.6	21.8	20.2
Incr Delay (d2), s/veh	0.3	0.2	0.4	1.1	2.9	0.7	0.4	1.1	0.1	0.3	3.0	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	1.2	0.9	0.1	2.8	0.9	1.4	2.2	0.2	0.6	2.2	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	23.2	15.5	15.4	27.8	22.9	19.2	20.7	20.0	17.1	22.9	24.8	20.6
LnGrp LOS	C	B	B	C	C	B	C	B	B	C	C	C
Approach Vol, veh/h		474			352			377			267	
Approach Delay, s/veh		16.2			22.0			20.1			23.8	
Approach LOS		B			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.6	14.6	9.6	17.4	10.0	18.2	5.0	22.0
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	5.8	6.9	3.3	8.7	3.5	7.6	2.2	5.7
Green Ext Time (p_c), s	0.1	1.6	0.0	2.7	0.0	1.3	0.0	3.4

Intersection Summary	
HCM 7th Control Delay, s/veh	20.0
HCM 7th LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	80	130	182	90	139	142	103	693	51	68	611	54
Future Volume (veh/h)	80	130	182	90	139	142	103	693	51	68	611	54
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	82	134	188	93	143	146	106	714	53	70	630	56
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	3	3	3
Cap, veh/h	156	429	363	165	181	185	172	1496	464	146	1415	439
Arrive On Green	0.09	0.23	0.23	0.09	0.21	0.21	0.10	0.29	0.29	0.08	0.28	0.28
Sat Flow, veh/h	1767	1856	1572	1781	848	866	1781	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	82	134	188	93	0	289	106	714	53	70	630	56
Grp Sat Flow(s),veh/h/ln	1767	1856	1572	1781	0	1714	1781	1702	1585	1767	1689	1572
Q Serve(g_s), s	3.3	4.4	7.7	3.7	0.0	11.7	4.2	8.4	1.8	2.8	7.5	2.0
Cycle Q Clear(g_c), s	3.3	4.4	7.7	3.7	0.0	11.7	4.2	8.4	1.8	2.8	7.5	2.0
Prop In Lane	1.00		1.00	1.00		0.51	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	156	429	363	165	0	366	172	1496	464	146	1415	439
V/C Ratio(X)	0.52	0.31	0.52	0.56	0.00	0.79	0.62	0.48	0.11	0.48	0.45	0.13
Avail Cap(c_a), veh/h	332	593	503	373	0	548	356	2731	848	354	2709	841
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	32.0	23.4	24.7	31.9	0.0	27.3	31.9	21.4	19.0	32.2	21.8	19.8
Incr Delay (d2), s/veh	1.0	0.4	1.1	3.0	0.0	8.7	1.3	0.2	0.1	0.9	0.7	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	1.8	0.1	1.6	0.0	5.3	1.8	3.2	0.6	1.2	2.9	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	33.0	23.8	25.8	34.9	0.0	36.0	33.3	21.6	19.1	33.1	22.5	20.2
LnGrp LOS	C	C	C	C		D	C	C	B	C	C	C
Approach Vol, veh/h		404			382			873			756	
Approach Delay, s/veh		26.6			35.8			22.9			23.3	
Approach LOS		C			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.4	26.2	12.7	22.2	11.4	27.2	11.4	23.5
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	6.2	9.5	5.3	13.7	4.8	10.4	5.7	9.7
Green Ext Time (p_c), s	0.1	11.0	0.0	2.0	0.0	5.7	0.1	1.1

Intersection Summary	
HCM 7th Control Delay, s/veh	25.7
HCM 7th LOS	C

Movement	EBL	EBR	NBL	NBT	SBU	SBT	SBR
Lane Configurations							
Traffic Volume (veh/h)	172	167	88	698	0	797	118
Future Volume (veh/h)	172	167	88	698	0	797	118
Initial Q (Qb), veh	0	0	0	0		0	0
Lane Width Adj.	1.00	1.00	1.00	1.00		1.00	1.00
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00				1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Work Zone On Approach	No			No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870		1856	1856
Adj Flow Rate, veh/h	177	172	91	720		822	122
Peak Hour Factor	0.97	0.97	0.97	0.97		0.97	0.97
Percent Heavy Veh, %	2	2	2	2		3	3
Cap, veh/h	328	292	382	3125		1949	605
Arrive On Green	0.18	0.18	0.11	0.61		0.38	0.38
Sat Flow, veh/h	1781	1585	3456	5274		5233	1572
Grp Volume(v), veh/h	177	172	91	720		822	122
Grp Sat Flow(s),veh/h/ln	1781	1585	1728	1702		1689	1572
Q Serve(g_s), s	4.9	5.4	1.3	3.4		6.4	2.8
Cycle Q Clear(g_c), s	4.9	5.4	1.3	3.4		6.4	2.8
Prop In Lane	1.00	1.00	1.00				1.00
Lane Grp Cap(c), veh/h	328	292	382	3125		1949	605
V/C Ratio(X)	0.54	0.59	0.24	0.23		0.42	0.20
Avail Cap(c_a), veh/h	816	726	878	3125		2753	855
HCM Platoon Ratio	1.00	1.00	1.00	1.00		1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00		1.00	1.00
Uniform Delay (d), s/veh	19.9	20.1	21.9	4.7		12.2	11.1
Incr Delay (d2), s/veh	3.8	5.1	0.1	0.1		0.5	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	2.1	0.5	0.9		2.2	0.9
Unsig. Movement Delay, s/veh							
LnGrp Delay(d), s/veh	23.7	25.3	22.0	4.9		12.7	11.6
LnGrp LOS	C	C	C	A		B	B
Approach Vol, veh/h	349			811		944	
Approach Delay, s/veh	24.5			6.8		12.5	
Approach LOS	C			A		B	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	12.3	26.4			38.7	15.2
Change Period (Y+Rc), s	6.3	5.7			5.7	5.3
Max Green Setting (Gmax), s	13.7	29.3			29.3	24.7
Max Q Clear Time (g_c+I1), s	13.3	8.4			5.4	7.4
Green Ext Time (p_c), s	0.1	12.3			10.8	2.6

Intersection Summary	
HCM 7th Control Delay, s/veh	12.3
HCM 7th LOS	B

Notes

User approved ignoring U-Turning movement.

Intersection	
Int Delay, s/veh	1.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	246	2	2	365	1	48	0	0	1	0	0
Future Vol, veh/h	0	246	2	2	365	1	48	0	0	1	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	81	81	81	81	81	81	81	81	81	81	81	81
Heavy Vehicles, %	3	3	3	1	1	1	2	2	2	0	2	0
Mvmt Flow	0	304	2	2	451	1	59	0	0	1	0	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	452	0	0	306	0	0	760	762	305	760	762	451
Stage 1	-	-	-	-	-	-	305	305	-	456	456	-
Stage 2	-	-	-	-	-	-	456	457	-	304	306	-
Critical Hdwy	4.13	-	-	4.11	-	-	7.12	6.52	6.22	7.1	6.52	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.1	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.1	5.52	-
Follow-up Hdwy	2.227	-	-	2.209	-	-	3.518	4.018	3.318	3.5	4.018	3.3
Pot Cap-1 Maneuver	1103	-	-	1260	-	-	322	335	735	325	335	612
Stage 1	-	-	-	-	-	-	705	662	-	588	568	-
Stage 2	-	-	-	-	-	-	584	568	-	710	661	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1103	-	-	1260	-	-	321	334	735	324	334	612
Mov Cap-2 Maneuver	-	-	-	-	-	-	321	334	-	324	334	-
Stage 1	-	-	-	-	-	-	705	662	-	586	567	-
Stage 2	-	-	-	-	-	-	583	566	-	710	661	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0	0.04	18.71	16.15
HCM LOS			C	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	321	1103	-	-	1260	-	-	324
HCM Lane V/C Ratio	0.184	-	-	-	0.002	-	-	0.004
HCM Control Delay (s/veh)	18.7	0	-	-	7.9	-	-	16.1
HCM Lane LOS	C	A	-	-	A	-	-	C
HCM 95th %tile Q(veh)	0.7	0	-	-	0	-	-	0

Intersection	
Intersection Delay, s/veh	89.2
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	8	162	125	25	222	253	85	240	19	175	207	4
Future Vol, veh/h	8	162	125	25	222	253	85	240	19	175	207	4
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.92	0.97	0.97	0.97	0.97
Heavy Vehicles, %	3	3	3	1	1	1	3	3	3	3	3	3
Mvmt Flow	8	167	129	26	229	261	88	261	20	180	213	4
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	39.3	149.9	60.8	75
HCM LOS	E	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	25%	3%	5%	45%
Vol Thru, %	70%	55%	44%	54%
Vol Right, %	6%	42%	51%	1%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	344	295	500	386
LT Vol	85	8	25	175
Through Vol	240	162	222	207
RT Vol	19	125	253	4
Lane Flow Rate	368	304	515	398
Geometry Grp	1	1	1	1
Degree of Util (X)	0.919	0.77	1.23	0.985
Departure Headway (Hd)	9.809	9.91	8.592	9.708
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	372	368	423	378
Service Time	7.809	7.91	6.666	7.708
HCM Lane V/C Ratio	0.989	0.826	1.217	1.053
HCM Control Delay, s/veh	60.8	39.3	149.9	75
HCM Lane LOS	F	E	F	F
HCM 95th-tile Q	9.5	6.3	21	11.4

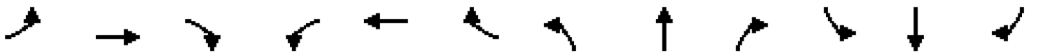
Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	8	0	3	4	0	2	3	329	11	2	395	6
Future Vol, veh/h	8	0	3	4	0	2	3	329	11	2	395	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2	3	3	3	3	3	3
Mvmt Flow	9	0	3	4	0	2	3	362	12	2	434	7

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	810	822	437	813	819	368	441	0	0	374	0	0
Stage 1	442	442	-	374	374	-	-	-	-	-	-	-
Stage 2	368	380	-	438	445	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	299	309	619	297	310	678	1114	-	-	1179	-	-
Stage 1	595	576	-	647	618	-	-	-	-	-	-	-
Stage 2	652	614	-	597	575	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	296	307	619	294	308	678	1114	-	-	1179	-	-
Mov Cap-2 Maneuver	296	307	-	294	308	-	-	-	-	-	-	-
Stage 1	593	575	-	644	615	-	-	-	-	-	-	-
Stage 2	647	611	-	592	573	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	15.82	15.12	0.07	0.04
HCM LOS	C	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	16	-	-	345	362	9	-	-
HCM Lane V/C Ratio	0.003	-	-	0.035	0.018	0.002	-	-
HCM Control Delay (s/veh)	8.2	0	-	15.8	15.1	8.1	0	-
HCM Lane LOS	A	A	-	C	C	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.1	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	34	318	128	14	265	148	120	162	18	121	221	34
Future Volume (veh/h)	34	318	128	14	265	148	120	162	18	121	221	34
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	37	346	139	15	288	161	130	176	20	132	240	37
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	2	2	2	3	3	3
Cap, veh/h	153	984	439	73	434	368	290	354	300	289	353	299
Arrive On Green	0.08	0.27	0.27	0.04	0.23	0.23	0.16	0.19	0.19	0.16	0.19	0.19
Sat Flow, veh/h	1810	3610	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Grp Volume(v), veh/h	37	346	139	15	288	161	130	176	20	132	240	37
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Q Serve(g_s), s	1.1	4.6	4.1	0.5	8.2	5.1	3.9	5.0	0.6	4.0	7.2	1.2
Cycle Q Clear(g_c), s	1.1	4.6	4.1	0.5	8.2	5.1	3.9	5.0	0.6	4.0	7.2	1.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	153	984	439	73	434	368	290	354	300	289	353	299
V/C Ratio(X)	0.24	0.35	0.32	0.20	0.66	0.44	0.45	0.50	0.07	0.46	0.68	0.12
Avail Cap(c_a), veh/h	635	2051	915	635	1080	915	625	1063	901	620	1054	894
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	25.6	17.5	17.3	27.8	21.0	19.8	22.6	21.7	19.9	22.6	22.5	20.1
Incr Delay (d2), s/veh	0.3	0.3	0.6	0.5	2.9	1.3	0.4	1.2	0.1	0.4	3.3	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	1.6	1.3	0.2	3.4	1.8	1.5	2.0	0.2	1.6	3.2	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	25.9	17.8	18.0	28.3	23.8	21.1	23.0	22.9	20.0	23.1	25.8	20.4
LnGrp LOS	C	B	B	C	C	C	C	C	C	C	C	C
Approach Vol, veh/h		522			464			326			409	
Approach Delay, s/veh		18.4			23.0			22.8			24.4	
Approach LOS		B			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.7	17.4	9.1	19.7	13.8	17.3	6.4	22.3
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	5.9	9.2	3.1	10.2	6.0	7.0	2.5	6.6
Green Ext Time (p_c), s	0.1	2.2	0.0	3.4	0.1	1.0	0.0	3.9

Intersection Summary	
HCM 7th Control Delay, s/veh	21.9
HCM 7th LOS	C

Intersection	
Int Delay, s/veh	0

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	48	0	0	5	0
Future Vol, veh/h	0	48	0	0	5	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	52	0	0	5	0

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	11	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	11	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	1009	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1012	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1009	-	-	-	-	-
Mov Cap-2 Maneuver	1009	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1012	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v		0	
HCM LOS	-		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s/veh)	-	-	-	-	-
HCM Lane LOS	-	-	-	-	-
HCM 95th %tile Q(veh)	-	-	-	-	-

Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	243	5	0	311	0	21
Future Vol, veh/h	243	5	0	311	0	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	264	5	0	338	0	23

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	267
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	772
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	772
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	9.81
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	772	-	-	-
HCM Lane V/C Ratio	0.03	-	-	-
HCM Control Delay (s/veh)	9.8	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-

Intersection	
Int Delay, s/veh	0.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	254	10	22	311	0	28
Future Vol, veh/h	254	10	22	311	0	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	276	11	24	338	0	30

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	287	0	-	282
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	4.12	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	2.218	-	-	3.318
Pot Cap-1 Maneuver	-	-	1275	-	0	757
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1275	-	-	757
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.52	9.95
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	757	-	-	1275	-
HCM Lane V/C Ratio	0.04	-	-	0.019	-
HCM Control Delay (s/veh)	10	-	-	7.9	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

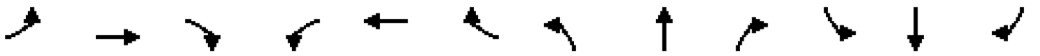
Intersection	
Int Delay, s/veh	0.6

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	274	7	0	333	0	41
Future Vol, veh/h	274	7	0	333	0	41
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	298	8	0	362	0	45

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	302
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	738
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	738
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.19
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	738	-	-	-
HCM Lane V/C Ratio	0.06	-	-	-
HCM Control Delay (s/veh)	10.2	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.2	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	109	121	94	141	124	119	731	120	103	560	40
Future Volume (veh/h)	21	109	121	94	141	124	119	731	120	103	560	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	24	127	141	109	164	144	138	850	140	120	651	47
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %	2	2	2	0	0	0	1	1	1	0	0	0
Cap, veh/h	74	348	295	167	202	177	174	1778	552	171	1780	552
Arrive On Green	0.04	0.19	0.19	0.09	0.22	0.22	0.10	0.35	0.35	0.09	0.34	0.34
Sat Flow, veh/h	1781	1870	1585	1810	933	819	1795	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	24	127	141	109	0	308	138	850	140	120	651	47
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1810	0	1753	1795	1716	1598	1810	1729	1610
Q Serve(g_s), s	1.0	4.7	6.2	4.6	0.0	13.1	5.9	10.2	4.9	5.0	7.4	1.6
Cycle Q Clear(g_c), s	1.0	4.7	6.2	4.6	0.0	13.1	5.9	10.2	4.9	5.0	7.4	1.6
Prop In Lane	1.00		1.00	1.00		0.47	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	74	348	295	167	0	380	174	1778	552	171	1780	552
V/C Ratio(X)	0.32	0.37	0.48	0.65	0.00	0.81	0.79	0.48	0.25	0.70	0.37	0.09
Avail Cap(c_a), veh/h	313	560	475	355	0	525	336	2577	800	339	2597	806
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	36.5	27.9	28.5	34.4	0.0	29.2	34.7	20.1	18.4	34.5	19.4	17.4
Incr Delay (d2), s/veh	0.9	0.8	1.5	1.6	0.0	10.5	3.1	0.6	0.8	2.0	0.4	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	2.0	2.3	2.0	0.0	6.2	2.7	4.0	1.8	2.3	2.9	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	37.5	28.7	30.0	36.0	0.0	39.7	37.8	20.8	19.2	36.4	19.8	17.7
LnGrp LOS	D	C	C	D		D	D	C	B	D	B	B
Approach Vol, veh/h		292			417			1128			818	
Approach Delay, s/veh		30.0			38.7			22.7			22.1	
Approach LOS		C			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.9	32.6	9.5	23.5	12.7	32.8	11.9	21.1
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	7.9	9.4	3.0	15.1	7.0	12.2	6.6	8.2
Green Ext Time (p_c), s	0.1	11.3	0.0	1.9	0.1	15.0	0.1	1.1

Intersection Summary	
HCM 7th Control Delay, s/veh	25.8
HCM 7th LOS	C

Movement	EBL	EBR	NBL	NBT	SBU	SBT	SBR
Lane Configurations							
Traffic Volume (veh/h)	136	193	199	899	0	697	102
Future Volume (veh/h)	136	193	199	899	0	697	102
Initial Q (Qb), veh	0	0	0	0		0	0
Lane Width Adj.	1.00	1.00	1.00	1.00		1.00	1.00
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00				1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Work Zone On Approach	No			No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870		1856	1856
Adj Flow Rate, veh/h	143	203	209	946		734	107
Peak Hour Factor	0.95	0.95	0.95	0.95		0.95	0.95
Percent Heavy Veh, %	2	2	2	2		3	3
Cap, veh/h	352	313	476	3054		1759	546
Arrive On Green	0.20	0.20	0.14	0.60		0.35	0.35
Sat Flow, veh/h	1781	1585	3456	5274		5233	1572
Grp Volume(v), veh/h	143	203	209	946		734	107
Grp Sat Flow(s),veh/h/ln	1781	1585	1728	1702		1689	1572
Q Serve(g_s), s	3.9	6.6	3.1	5.1		6.2	2.7
Cycle Q Clear(g_c), s	3.9	6.6	3.1	5.1		6.2	2.7
Prop In Lane	1.00	1.00	1.00				1.00
Lane Grp Cap(c), veh/h	352	313	476	3054		1759	546
V/C Ratio(X)	0.41	0.65	0.44	0.31		0.42	0.20
Avail Cap(c_a), veh/h	776	691	849	3054		2661	826
HCM Platoon Ratio	1.00	1.00	1.00	1.00		1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00		1.00	1.00
Uniform Delay (d), s/veh	19.5	20.6	22.1	5.5		13.9	12.7
Incr Delay (d2), s/veh	2.1	6.1	0.2	0.2		0.5	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	2.6	1.2	1.4		2.2	0.9
Unsig. Movement Delay, s/veh							
LnGrp Delay(d), s/veh	21.6	26.7	22.3	5.7		14.4	13.3
LnGrp LOS	C	C	C	A		B	B
Approach Vol, veh/h	346			1155		841	
Approach Delay, s/veh	24.6			8.7		14.3	
Approach LOS	C			A		B	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	14.0	25.1			39.1	16.7
Change Period (Y+Rc), s	6.3	5.7			5.7	5.7
Max Green Setting (Gmax), s	13.7	29.3			29.3	24.3
Max Q Clear Time (g_c+I1), s	5.1	8.2			7.1	8.6
Green Ext Time (p_c), s	0.2	11.2			13.4	2.5

Intersection Summary	
HCM 7th Control Delay, s/veh	13.1
HCM 7th LOS	B

Notes

User approved ignoring U-Turning movement.

Intersection	
Int Delay, s/veh	0.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	312	8	8	307	0	33	0	0	0	0	1
Future Vol, veh/h	1	312	8	8	307	0	33	0	0	0	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	332	9	9	327	0	35	0	0	0	0	1

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	327	0	0	340	0	0	682	682	336	678	686	327
Stage 1	-	-	-	-	-	-	338	338	-	344	344	-
Stage 2	-	-	-	-	-	-	344	344	-	334	343	-
Critical Hdwy	4.12	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.218	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1233	-	-	1230	-	-	367	375	710	369	373	719
Stage 1	-	-	-	-	-	-	680	644	-	676	641	-
Stage 2	-	-	-	-	-	-	676	641	-	684	641	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1233	-	-	1230	-	-	363	371	710	366	369	719
Mov Cap-2 Maneuver	-	-	-	-	-	-	363	371	-	366	369	-
Stage 1	-	-	-	-	-	-	680	643	-	670	635	-
Stage 2	-	-	-	-	-	-	669	635	-	683	641	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.02	0.2	15.99	10.01
HCM LOS			C	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	363	6	-	-	1230	-	-	719
HCM Lane V/C Ratio	0.097	0.001	-	-	0.007	-	-	0.001
HCM Control Delay (s/veh)	16	7.9	0	-	7.9	-	-	10
HCM Lane LOS	C	A	A	-	A	-	-	B
HCM 95th %tile Q(veh)	0.3	0	-	-	0	-	-	0

Intersection	
Intersection Delay, s/veh	91.1
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	5	197	82	15	233	179	127	259	30	187	168	7
Future Vol, veh/h	5	197	82	15	233	179	127	259	30	187	168	7
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	2	2	2	0	0	0	2	2	2	3	3	3
Mvmt Flow	5	212	88	16	251	192	137	278	32	201	181	8
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	43.6	110.7	114.8	78.1
HCM LOS	E	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	31%	2%	4%	52%
Vol Thru, %	62%	69%	55%	46%
Vol Right, %	7%	29%	42%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	416	284	427	362
LT Vol	127	5	15	187
Through Vol	259	197	233	168
RT Vol	30	82	179	7
Lane Flow Rate	447	305	459	389
Geometry Grp	1	1	1	1
Degree of Util (X)	1.122	0.797	1.114	0.992
Departure Headway (Hd)	9.582	10.273	9.267	10.005
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	380	354	395	366
Service Time	7.582	8.273	7.267	8.005
HCM Lane V/C Ratio	1.176	0.862	1.162	1.063
HCM Control Delay, s/veh	114.8	43.6	110.7	78.1
HCM Lane LOS	F	E	F	F
HCM 95th-tile Q	15.8	6.7	15.8	11.4

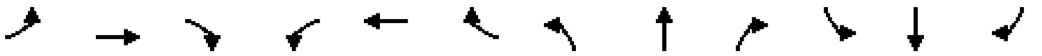
Intersection	
Int Delay, s/veh	0.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		⇕			⇕			⇕			⇕	
Traffic Vol, veh/h	0	0	2	9	0	2	0	404	2	0	289	1
Future Vol, veh/h	0	0	2	9	0	2	0	404	2	0	289	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	92	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	3	3	3
Mvmt Flow	0	0	2	9	0	2	0	439	2	0	304	1

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	744	746	305	744	745	440	305	0	0	441	0	0
Stage 1	305	305	-	440	440	-	-	-	-	-	-	-
Stage 2	439	441	-	304	305	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.227	-	-
Pot Cap-1 Maneuver	331	342	735	330	342	617	1256	-	-	1113	-	-
Stage 1	705	662	-	596	577	-	-	-	-	-	-	-
Stage 2	597	577	-	705	662	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	330	342	735	329	342	617	1256	-	-	1113	-	-
Mov Cap-2 Maneuver	330	342	-	329	342	-	-	-	-	-	-	-
Stage 1	705	662	-	596	577	-	-	-	-	-	-	-
Stage 2	595	577	-	703	662	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	9.91	15.33	0	0
HCM LOS	A	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1256	-	-	735	360	1113	-	-
HCM Lane V/C Ratio	-	-	-	0.003	0.032	-	-	-
HCM Control Delay (s/veh)	0	-	-	9.9	15.3	0	-	-
HCM Lane LOS	A	-	-	A	C	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.1	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	44	295	111	6	240	123	129	236	24	68	188	36
Future Volume (veh/h)	44	295	111	6	240	123	129	236	24	68	188	36
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	46	311	117	6	253	129	136	248	25	72	198	38
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	2	2	2	3	3	3
Cap, veh/h	181	1050	469	32	396	336	305	386	327	233	310	262
Arrive On Green	0.10	0.29	0.29	0.02	0.21	0.21	0.17	0.21	0.21	0.13	0.17	0.17
Sat Flow, veh/h	1810	3610	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Grp Volume(v), veh/h	46	311	117	6	253	129	136	248	25	72	198	38
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Q Serve(g_s), s	1.3	3.8	3.1	0.2	6.9	3.9	3.9	6.9	0.7	2.1	5.6	1.2
Cycle Q Clear(g_c), s	1.3	3.8	3.1	0.2	6.9	3.9	3.9	6.9	0.7	2.1	5.6	1.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	181	1050	469	32	396	336	305	386	327	233	310	262
V/C Ratio(X)	0.25	0.30	0.25	0.19	0.64	0.38	0.45	0.64	0.08	0.31	0.64	0.14
Avail Cap(c_a), veh/h	671	2168	967	671	1141	967	661	1123	952	656	1114	944
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.5	15.6	15.3	27.4	20.5	19.3	21.0	20.5	18.1	22.2	22.0	20.1
Incr Delay (d2), s/veh	0.3	0.2	0.4	1.1	2.8	1.2	0.4	1.9	0.1	0.3	3.1	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	1.3	1.0	0.1	2.8	1.3	1.4	2.8	0.2	0.8	2.5	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	23.8	15.8	15.8	28.5	23.3	20.5	21.4	22.5	18.2	22.5	25.1	20.5
LnGrp LOS	C	B	B	C	C	C	C	C	B	C	C	C
Approach Vol, veh/h		474			388			409			308	
Approach Delay, s/veh		16.6			22.4			21.9			23.9	
Approach LOS		B			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.7	15.4	9.7	17.8	11.5	17.7	5.0	22.5
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	5.9	7.6	3.3	8.9	4.1	8.9	2.2	5.8
Green Ext Time (p_c), s	0.1	1.8	0.0	2.9	0.1	1.4	0.0	3.4

Intersection Summary	
HCM 7th Control Delay, s/veh	20.8
HCM 7th LOS	C

Intersection	
Int Delay, s/veh	0

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	33	0	0	16	0
Future Vol, veh/h	0	33	0	0	16	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	36	0	0	17	0

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	35	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	35	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	978	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	988	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	978	-	-	-	-	-
Mov Cap-2 Maneuver	978	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	988	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v		0	
HCM LOS	-		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s/veh)	-	-	-	-	-
HCM Lane LOS	-	-	-	-	-
HCM 95th %tile Q(veh)	-	-	-	-	-

Intersection	
Int Delay, s/veh	0.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	292	16	0	310	0	14
Future Vol, veh/h	292	16	0	310	0	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	317	17	0	337	0	15

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	326
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	715
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	715
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.14
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	715	-	-	-
HCM Lane V/C Ratio	0.021	-	-	-
HCM Control Delay (s/veh)	10.1	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-

Intersection	
Int Delay, s/veh	1.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	275	31	71	310	0	19
Future Vol, veh/h	275	31	71	310	0	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	299	34	77	337	0	21

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	333	0	-	316
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	4.12	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	2.218	-	-	3.318
Pot Cap-1 Maneuver	-	-	1227	-	0	725
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1227	-	-	725
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	1.52	10.11
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	725	-	-	1227	-
HCM Lane V/C Ratio	0.028	-	-	0.063	-
HCM Control Delay (s/veh)	10.1	-	-	8.1	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.2	-

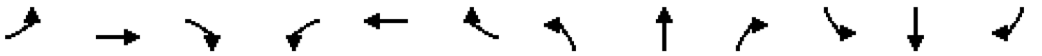
Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	270	24	0	381	0	28
Future Vol, veh/h	270	24	0	381	0	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	293	26	0	414	0	30

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	307
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	733
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	733
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.12
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	733	-	-	-
HCM Lane V/C Ratio	0.041	-	-	-
HCM Control Delay (s/veh)	10.1	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	81	155	221	213	179	187	149	729	117	90	682	55
Future Volume (veh/h)	81	155	221	213	179	187	149	729	117	90	682	55
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	84	160	228	220	185	193	154	752	121	93	703	57
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	3	3	3
Cap, veh/h	144	383	325	258	210	219	190	1544	479	149	1419	441
Arrive On Green	0.08	0.21	0.21	0.14	0.25	0.25	0.11	0.30	0.30	0.08	0.28	0.28
Sat Flow, veh/h	1767	1856	1572	1781	838	875	1781	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	84	160	228	220	0	378	154	752	121	93	703	57
Grp Sat Flow(s),veh/h/ln	1767	1856	1572	1781	0	1713	1781	1702	1585	1767	1689	1572
Q Serve(g_s), s	3.9	6.3	11.3	10.2	0.0	17.9	7.1	10.1	4.9	4.3	9.8	2.3
Cycle Q Clear(g_c), s	3.9	6.3	11.3	10.2	0.0	17.9	7.1	10.1	4.9	4.3	9.8	2.3
Prop In Lane	1.00		1.00	1.00		0.51	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	144	383	325	258	0	429	190	1544	479	149	1419	441
V/C Ratio(X)	0.58	0.42	0.70	0.85	0.00	0.88	0.81	0.49	0.25	0.63	0.50	0.13
Avail Cap(c_a), veh/h	289	518	439	326	0	478	311	2382	739	308	2363	734
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.3	29.0	31.0	35.2	0.0	30.4	36.8	24.0	22.2	37.3	25.3	22.6
Incr Delay (d2), s/veh	1.4	0.9	3.7	13.7	0.0	18.2	3.2	0.8	0.9	1.6	0.9	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	2.8	4.4	5.2	0.0	9.1	3.2	4.1	1.8	1.9	3.9	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	38.7	29.9	34.7	48.8	0.0	48.6	40.0	24.8	23.1	38.9	26.2	23.1
LnGrp LOS	D	C	C	D		D	D	C	C	D	C	C
Approach Vol, veh/h		472			598			1027			853	
Approach Delay, s/veh		33.8			48.7			26.9			27.4	
Approach LOS		C			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.3	29.3	13.1	27.6	12.4	31.2	16.8	23.9
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	9.1	11.8	5.9	19.9	6.3	12.1	12.2	13.3
Green Ext Time (p_c), s	0.1	11.8	0.0	1.2	0.1	13.2	0.1	1.4

Intersection Summary	
HCM 7th Control Delay, s/veh	32.6
HCM 7th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	208	70	191	104	95	31	121	772	79	23	928	201
Future Volume (veh/h)	208	70	191	104	95	31	121	772	79	23	928	201
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	214	72	197	107	98	32	125	796	81	24	957	207
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	0	0	0	2	2	2	3	3	3
Cap, veh/h	277	310	262	163	190	161	321	2200	683	73	1858	577
Arrive On Green	0.16	0.17	0.17	0.09	0.10	0.10	0.09	0.43	0.43	0.04	0.37	0.37
Sat Flow, veh/h	1781	1870	1585	1810	1900	1610	3456	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	214	72	197	107	98	32	125	796	81	24	957	207
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1810	1900	1610	1728	1702	1585	1767	1689	1572
Q Serve(g_s), s	9.3	2.7	9.6	4.6	4.0	1.5	2.8	8.5	2.5	1.1	11.9	7.8
Cycle Q Clear(g_c), s	9.3	2.7	9.6	4.6	4.0	1.5	2.8	8.5	2.5	1.1	11.9	7.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	277	310	262	163	190	161	321	2200	683	73	1858	577
V/C Ratio(X)	0.77	0.23	0.75	0.66	0.52	0.20	0.39	0.36	0.12	0.33	0.52	0.36
Avail Cap(c_a), veh/h	589	555	471	493	454	385	372	2464	765	175	2338	726
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	32.7	29.3	32.1	35.6	34.5	33.4	34.5	15.5	13.8	37.7	20.0	18.7
Incr Delay (d2), s/veh	11.7	1.0	11.2	11.7	5.9	1.7	0.3	0.3	0.3	1.0	0.8	1.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.7	1.2	4.3	2.5	2.1	0.6	1.1	3.2	0.9	0.5	4.6	2.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	44.5	30.3	43.3	47.3	40.4	35.1	34.8	15.8	14.1	38.6	20.7	20.0
LnGrp LOS	D	C	D	D	D	D	C	B	B	D	C	B
Approach Vol, veh/h		483			237			1002			1188	
Approach Delay, s/veh		41.9			42.8			18.1			21.0	
Approach LOS		D			D			B			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.6	40.5	17.9	13.8	13.8	35.3	12.6	19.1
Change Period (Y+Rc), s	5.3	5.7	5.3	5.7	6.3	5.7	5.3	5.7
Max Green Setting (Gmax), s	3.3	39.0	26.7	19.3	8.7	37.3	22.0	24.0
Max Q Clear Time (g_c+I1), s	3.1	10.5	11.3	6.0	4.8	13.9	6.6	11.6
Green Ext Time (p_c), s	0.0	14.1	1.4	0.9	0.1	15.7	0.6	1.8

Intersection Summary	
HCM 7th Control Delay, s/veh	25.2
HCM 7th LOS	C

Intersection	
Int Delay, s/veh	4.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	270	29	15	490	2	79	30	15	7	24	0
Future Vol, veh/h	0	270	29	15	490	2	79	30	15	7	24	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	1	1	1	0	0	0	0	0	0
Mvmt Flow	0	293	32	16	533	2	86	33	16	8	26	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	535	0	0	325	0	0	888	877	309	876	891	534
Stage 1	-	-	-	-	-	-	309	309	-	566	566	-
Stage 2	-	-	-	-	-	-	578	567	-	310	325	-
Critical Hdwy	4.13	-	-	4.11	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.227	-	-	2.209	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1028	-	-	1240	-	-	267	289	736	271	284	550
Stage 1	-	-	-	-	-	-	705	663	-	512	510	-
Stage 2	-	-	-	-	-	-	505	510	-	705	653	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1028	-	-	1240	-	-	238	284	736	231	278	550
Mov Cap-2 Maneuver	-	-	-	-	-	-	238	284	-	231	278	-
Stage 1	-	-	-	-	-	-	705	663	-	503	501	-
Stage 2	-	-	-	-	-	-	470	500	-	655	653	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0	0.23	30.85	20.48
HCM LOS			D	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	270	1028	-	-	53	-	-	266
HCM Lane V/C Ratio	0.498	-	-	-	0.013	-	-	0.127
HCM Control Delay (s/veh)	30.8	0	-	-	7.9	0	-	20.5
HCM Lane LOS	D	A	-	-	A	A	-	C
HCM 95th %tile Q(veh)	2.6	0	-	-	0	-	-	0.4

Intersection	
Intersection Delay, s/veh	170.6
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	9	184	149	25	280	258	121	275	19	188	282	7
Future Vol, veh/h	9	184	149	25	280	258	121	275	19	188	282	7
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Heavy Vehicles, %	3	3	3	1	1	1	3	3	3	3	3	3
Mvmt Flow	9	190	154	26	289	266	125	284	20	194	291	7
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	69	253.4	124.6	185.9
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	29%	3%	4%	39%
Vol Thru, %	66%	54%	50%	59%
Vol Right, %	5%	44%	46%	1%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	415	342	563	477
LT Vol	121	9	25	188
Through Vol	275	184	280	282
RT Vol	19	149	258	7
Lane Flow Rate	428	353	580	492
Geometry Grp	1	1	1	1
Degree of Util (X)	1.123	0.912	1.47	1.296
Departure Headway (Hd)	11.817	12.24	10.366	11.312
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	312	300	354	325
Service Time	9.817	10.24	8.366	9.312
HCM Lane V/C Ratio	1.372	1.177	1.638	1.514
HCM Control Delay, s/veh	124.6	69	253.4	185.9
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	13.9	8.5	27.4	19.6

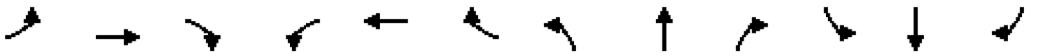
Intersection	
Int Delay, s/veh	29.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	34	69	67	8	75	2	61	427	14	2	564	34
Future Vol, veh/h	34	69	67	8	75	2	61	427	14	2	564	34
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	3	3	3	3	3	3
Mvmt Flow	37	75	73	9	82	2	66	464	15	2	613	37

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1273	1248	632	1259	1259	472	650	0	0	479	0	0
Stage 1	636	636	-	604	604	-	-	-	-	-	-	-
Stage 2	638	612	-	655	654	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	144	173	481	147	171	592	931	-	-	1078	-	-
Stage 1	466	472	-	485	488	-	-	-	-	-	-	-
Stage 2	465	484	-	455	463	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	64	156	481	61	154	592	931	-	-	1078	-	-
Mov Cap-2 Maneuver	64	156	-	61	154	-	-	-	-	-	-	-
Stage 1	465	470	-	438	440	-	-	-	-	-	-	-
Stage 2	341	437	-	324	461	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/veh	98.42	73.92	1.11	0.03
HCM LOS	F	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	217	-	-	153	137	6	-	-
HCM Lane V/C Ratio	0.071	-	-	1.21	0.676	0.002	-	-
HCM Control Delay (s/veh)	9.2	0	-	198.4	73.9	8.3	0	-
HCM Lane LOS	A	A	-	F	F	A	A	-
HCM 95th %tile Q(veh)	0.2	-	-	10.6	3.7	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	103	401	265	43	339	220	200	318	36	217	570	143
Future Volume (veh/h)	103	401	265	43	339	220	200	318	36	217	570	143
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	112	436	288	47	368	239	217	346	39	236	620	155
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	179	932	415	138	448	380	249	584	495	268	604	512
Arrive On Green	0.10	0.26	0.26	0.08	0.24	0.24	0.14	0.31	0.31	0.15	0.33	0.33
Sat Flow, veh/h	1767	3526	1572	1767	1856	1572	1767	1856	1572	1767	1856	1572
Grp Volume(v), veh/h	112	436	288	47	368	239	217	346	39	236	620	155
Grp Sat Flow(s),veh/h/ln	1767	1763	1572	1767	1856	1572	1767	1856	1572	1767	1856	1572
Q Serve(g_s), s	6.4	10.9	17.2	2.6	19.6	14.2	12.6	16.4	1.8	13.7	34.0	7.7
Cycle Q Clear(g_c), s	6.4	10.9	17.2	2.6	19.6	14.2	12.6	16.4	1.8	13.7	34.0	7.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	179	932	415	138	448	380	249	584	495	268	604	512
V/C Ratio(X)	0.63	0.47	0.69	0.34	0.82	0.63	0.87	0.59	0.08	0.88	1.03	0.30
Avail Cap(c_a), veh/h	355	1147	512	355	604	512	355	604	512	355	604	512
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.1	32.3	34.6	45.6	37.5	35.5	44.0	30.2	25.2	43.4	35.2	26.4
Incr Delay (d2), s/veh	1.3	0.6	3.9	0.5	8.3	2.8	11.7	1.5	0.1	15.0	43.7	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.7	4.4	6.6	1.1	9.4	5.4	6.1	7.2	0.7	7.0	22.3	2.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	46.4	32.8	38.6	46.1	45.8	38.3	55.7	31.7	25.2	58.4	78.9	26.9
LnGrp LOS	D	C	D	D	D	D	E	C	C	E	F	C
Approach Vol, veh/h		836			654			602			1011	
Approach Delay, s/veh		36.6			43.1			39.9			66.2	
Approach LOS		D			D			D			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.7	40.0	14.6	31.2	19.8	38.9	12.2	33.6
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	14.6	36.0	8.4	21.6	15.7	18.4	4.6	19.2
Green Ext Time (p_c), s	0.2	0.0	0.1	3.6	0.2	1.9	0.0	4.6

Intersection Summary	
HCM 7th Control Delay, s/veh	48.3
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	2.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	48	75	0	5	57
Future Vol, veh/h	0	48	75	0	5	57
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	52	82	0	5	62

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	154	82	0	0	82	0
Stage 1	82	-	-	-	-	-
Stage 2	73	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	837	978	-	-	1516	-
Stage 1	942	-	-	-	-	-
Stage 2	950	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	834	978	-	-	1516	-
Mov Cap-2 Maneuver	834	-	-	-	-	-
Stage 1	942	-	-	-	-	-
Stage 2	947	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	8.89	0	0.6
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	978	145	-
HCM Lane V/C Ratio	-	-	0.053	0.004	-
HCM Control Delay (s/veh)	-	-	8.9	7.4	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.2	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑			↑		↱
Traffic Vol, veh/h	276	5	0	349	0	21
Future Vol, veh/h	276	5	0	349	0	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	300	5	0	379	0	23

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	303
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	737
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	737
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.04
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	737	-	-	-
HCM Lane V/C Ratio	0.031	-	-	-
HCM Control Delay (s/veh)	10	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-

Intersection	
Int Delay, s/veh	0.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	287	10	22	349	0	28
Future Vol, veh/h	287	10	22	349	0	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	312	11	24	379	0	30

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	323	0	-	317
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	4.12	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	2.218	-	-	3.318
Pot Cap-1 Maneuver	-	-	1237	-	0	723
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1237	-	-	723
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.47	10.2
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	723	-	-	1237	-
HCM Lane V/C Ratio	0.042	-	-	0.019	-
HCM Control Delay (s/veh)	10.2	-	-	8	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

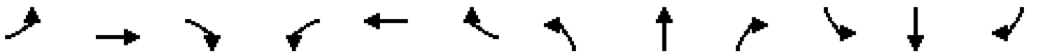
Intersection	
Int Delay, s/veh	0.6

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑			↑		↱
Traffic Vol, veh/h	307	7	0	371	0	41
Future Vol, veh/h	307	7	0	371	0	41
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	334	8	0	403	0	45

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	337
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	705
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	705
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.45
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	705	-	-	-
HCM Lane V/C Ratio	0.063	-	-	-
HCM Control Delay (s/veh)	10.5	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.2	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	150	180	217	175	159	174	786	269	141	604	40
Future Volume (veh/h)	21	150	180	217	175	159	174	786	269	141	604	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	23	163	196	236	190	173	189	854	292	153	657	43
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	0	0	0	1	1	1	0	0	0
Cap, veh/h	69	293	248	272	229	208	225	1759	546	188	1662	516
Arrive On Green	0.04	0.16	0.16	0.15	0.25	0.25	0.13	0.34	0.34	0.10	0.32	0.32
Sat Flow, veh/h	1781	1870	1585	1810	916	834	1795	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	23	163	196	236	0	363	189	854	292	153	657	43
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1810	0	1750	1795	1716	1598	1810	1729	1610
Q Serve(g_s), s	1.1	7.2	10.6	11.4	0.0	17.5	9.2	11.7	13.1	7.4	8.8	1.7
Cycle Q Clear(g_c), s	1.1	7.2	10.6	11.4	0.0	17.5	9.2	11.7	13.1	7.4	8.8	1.7
Prop In Lane	1.00		1.00	1.00		0.48	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	69	293	248	272	0	437	225	1759	546	188	1662	516
V/C Ratio(X)	0.33	0.56	0.79	0.87	0.00	0.83	0.84	0.49	0.53	0.81	0.40	0.08
Avail Cap(c_a), veh/h	275	492	417	312	0	461	296	2266	703	298	2284	709
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.8	34.8	36.2	37.1	0.0	31.7	38.2	23.2	23.7	39.2	23.6	21.2
Incr Delay (d2), s/veh	1.0	2.0	6.6	18.3	0.0	13.4	12.2	0.7	2.6	4.2	0.5	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	3.3	4.4	6.2	0.0	8.6	4.7	4.7	5.0	3.4	3.6	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	42.8	36.8	42.9	55.4	0.0	45.0	50.3	23.9	26.3	43.4	24.1	21.4
LnGrp LOS	D	D	D	E		D	D	C	C	D	C	C
Approach Vol, veh/h		382			599			1335			853	
Approach Delay, s/veh		40.3			49.1			28.1			27.4	
Approach LOS		D			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.5	34.3	9.7	28.8	14.6	36.2	18.0	20.5
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	11.2	10.8	3.1	19.5	9.4	15.1	13.4	12.6
Green Ext Time (p_c), s	0.1	11.1	0.0	1.3	0.1	15.4	0.1	1.4

Intersection Summary	
HCM 7th Control Delay, s/veh	33.4
HCM 7th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	222	124	244	145	115	55	238	1039	152	56	786	184
Future Volume (veh/h)	222	124	244	145	115	55	238	1039	152	56	786	184
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	234	131	257	153	121	58	251	1094	160	59	827	194
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	1	1	1	0	0	0
Cap, veh/h	172	394	334	172	394	334	332	1542	479	99	1346	418
Arrive On Green	0.10	0.21	0.21	0.10	0.21	0.21	0.10	0.30	0.30	0.05	0.26	0.26
Sat Flow, veh/h	1810	1900	1610	1810	1900	1610	3483	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	234	131	257	153	121	58	251	1094	160	59	827	194
Grp Sat Flow(s),veh/h/ln	1810	1900	1610	1810	1900	1610	1742	1716	1598	1810	1729	1610
Q Serve(g_s), s	5.0	3.1	7.9	4.4	2.8	1.6	3.7	9.9	4.1	1.7	7.4	5.3
Cycle Q Clear(g_c), s	5.0	3.1	7.9	4.4	2.8	1.6	3.7	9.9	4.1	1.7	7.4	5.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	172	394	334	172	394	334	332	1542	479	99	1346	418
V/C Ratio(X)	1.36	0.33	0.77	0.89	0.31	0.17	0.76	0.71	0.33	0.59	0.61	0.46
Avail Cap(c_a), veh/h	172	651	552	172	651	552	332	1764	548	172	1778	552
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.8	17.7	19.6	23.5	17.6	17.1	23.2	16.4	14.3	24.2	17.1	16.4
Incr Delay (d2), s/veh	194.0	0.5	3.8	38.6	0.4	0.2	9.6	1.1	0.4	5.5	0.5	0.8
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.2	1.2	3.0	3.6	1.2	0.5	1.8	3.6	1.4	0.8	2.7	1.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	217.7	18.2	23.4	62.1	18.1	17.4	32.8	17.5	14.7	29.8	17.6	17.2
LnGrp LOS	F	B	C	E	B	B	C	B	B	C	B	B
Approach Vol, veh/h		622			332			1505			1080	
Approach Delay, s/veh		95.4			38.2			19.7			18.2	
Approach LOS		F			D			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.4	20.2	9.5	15.4	9.5	18.1	9.5	15.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.0	18.0	5.0	18.0	5.0	18.0	5.0	18.0
Max Q Clear Time (g_c+I1), s	3.7	11.9	6.4	9.9	5.7	9.4	7.0	4.8
Green Ext Time (p_c), s	0.0	3.8	0.0	1.0	0.0	4.1	0.0	0.6

Intersection Summary	
HCM 7th Control Delay, s/veh	34.3
HCM 7th LOS	C

Intersection	
Int Delay, s/veh	6.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		⇕			⇕			⇕			⇕	
Traffic Vol, veh/h	1	422	49	27	379	7	76	39	20	2	39	1
Future Vol, veh/h	1	422	49	27	379	7	76	39	20	2	39	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	449	52	29	403	7	81	41	21	2	41	1

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	411	0	0	501	0	0	959	945	475	936	968	407
Stage 1	-	-	-	-	-	-	477	477	-	464	464	-
Stage 2	-	-	-	-	-	-	481	468	-	472	503	-
Critical Hdwy	4.12	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.218	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1148	-	-	1074	-	-	239	264	594	247	256	649
Stage 1	-	-	-	-	-	-	573	559	-	582	567	-
Stage 2	-	-	-	-	-	-	570	565	-	577	545	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1148	-	-	1074	-	-	192	254	594	193	247	649
Mov Cap-2 Maneuver	-	-	-	-	-	-	192	254	-	193	247	-
Stage 1	-	-	-	-	-	-	572	559	-	562	547	-
Stage 2	-	-	-	-	-	-	507	545	-	514	544	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.02	0.55	42.86	22.75
HCM LOS			E	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	232	4	-	-	117	-	-	247
HCM Lane V/C Ratio	0.619	0.001	-	-	0.027	-	-	0.181
HCM Control Delay (s/veh)	42.9	8.1	0	-	8.4	0	-	22.7
HCM Lane LOS	E	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	3.7	0	-	-	0.1	-	-	0.6

Intersection	
Intersection Delay, s/veh	214.6
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	6	257	122	15	287	187	172	351	31	194	223	8
Future Vol, veh/h	6	257	122	15	287	187	172	351	31	194	223	8
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	2	2	2	0	0	0	2	2	2	3	3	3
Mvmt Flow	6	276	131	16	309	201	185	377	33	209	240	9
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	118.7	218.1	312.6	169.5
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	31%	2%	3%	46%
Vol Thru, %	63%	67%	59%	52%
Vol Right, %	6%	32%	38%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	554	385	489	425
LT Vol	172	6	15	194
Through Vol	351	257	287	223
RT Vol	31	122	187	8
Lane Flow Rate	596	414	526	457
Geometry Grp	1	1	1	1
Degree of Util (X)	1.598	1.086	1.369	1.235
Departure Headway (Hd)	11.858	13.342	12.149	13.137
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	310	277	305	279
Service Time	9.858	11.342	10.149	11.137
HCM Lane V/C Ratio	1.923	1.495	1.725	1.638
HCM Control Delay, s/veh	312.6	118.7	218.1	169.5
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	29	12	20.9	16

Intersection	
Int Delay, s/veh	146

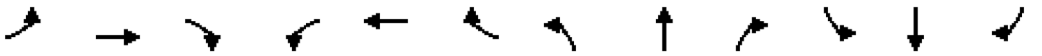
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	38	98	91	15	96	2	88	616	8	1	436	38
Future Vol, veh/h	38	98	91	15	96	2	88	616	8	1	436	38
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	92	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	3	3	3
Mvmt Flow	40	103	96	16	101	2	93	648	8	1	474	40

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1380	1338	494	1365	1354	653	514	0	0	657	0	0
Stage 1	496	496	-	838	838	-	-	-	-	-	-	-
Stage 2	884	842	-	528	516	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.227	-	-
Pot Cap-1 Maneuver	122	153	575	124	150	468	1052	-	-	926	-	-
Stage 1	556	545	-	361	382	-	-	-	-	-	-	-
Stage 2	340	380	-	534	534	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 25	131	575	22	129	468	1052	-	-	926	-	-
Mov Cap-2 Maneuver	~ 25	131	-	22	129	-	-	-	-	-	-	-
Stage 1	555	544	-	311	329	-	-	-	-	-	-	-
Stage 2	202	327	-	360	533	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, $/veh	$ 797.82	$ 381.32	1.08	0.02
HCM LOS	F	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	222	-	-	94	78	4	-	-
HCM Lane V/C Ratio	0.088	-	-	2.547	1.522	0.001	-	-
HCM Control Delay (s/veh)	8.8	0	-	$ 797.8	$ 381.3	8.9	0	-
HCM Lane LOS	A	A	-	F	F	A	A	-
HCM 95th %tile Q(veh)	0.3	-	-	22.2	9.7	0	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	189	387	259	31	319	240	281	643	52	159	475	152
Future Volume (veh/h)	189	387	259	31	319	240	281	643	52	159	475	152
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	199	407	273	33	336	253	296	677	55	167	500	160
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	2	2	2	3	3	3
Cap, veh/h	230	1018	454	115	415	352	324	678	574	197	542	460
Arrive On Green	0.13	0.28	0.28	0.06	0.22	0.22	0.18	0.36	0.36	0.11	0.29	0.29
Sat Flow, veh/h	1810	3610	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Grp Volume(v), veh/h	199	407	273	33	336	253	296	677	55	167	500	160
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Q Serve(g_s), s	11.9	10.1	16.2	1.9	18.6	16.1	18.0	40.0	2.5	10.3	28.9	8.9
Cycle Q Clear(g_c), s	11.9	10.1	16.2	1.9	18.6	16.1	18.0	40.0	2.5	10.3	28.9	8.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	230	1018	454	115	415	352	324	678	574	197	542	460
V/C Ratio(X)	0.87	0.40	0.60	0.29	0.81	0.72	0.91	1.00	0.10	0.85	0.92	0.35
Avail Cap(c_a), veh/h	343	1109	495	343	584	495	338	678	574	335	570	483
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.4	32.1	34.3	49.4	41.1	40.1	44.4	35.3	23.3	48.2	37.9	30.9
Incr Delay (d2), s/veh	9.9	0.4	2.4	0.5	7.7	4.7	27.1	34.2	0.1	3.9	20.5	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.8	4.2	6.3	0.9	9.1	6.5	10.1	23.5	0.9	4.7	16.0	3.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	57.3	32.5	36.7	50.0	48.7	44.8	71.5	69.5	23.4	52.1	58.5	31.5
LnGrp LOS	E	C	D	D	D	D	E	E	C	D	E	C
Approach Vol, veh/h		879			622			1028			827	
Approach Delay, s/veh		39.4			47.2			67.6			52.0	
Approach LOS		D			D			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.1	38.3	18.0	30.2	16.3	46.1	11.0	37.2
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	20.0	30.9	13.9	20.6	12.3	42.0	3.9	18.2
Green Ext Time (p_c), s	0.1	1.5	0.1	3.6	0.1	0.0	0.0	4.5

Intersection Summary	
HCM 7th Control Delay, s/veh	52.6
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	1.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	33	91	0	16	97
Future Vol, veh/h	0	33	91	0	16	97
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	36	99	0	17	105

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	239	99	0	0	99	0
Stage 1	99	-	-	-	-	-
Stage 2	140	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	749	957	-	-	1494	-
Stage 1	925	-	-	-	-	-
Stage 2	887	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	740	957	-	-	1494	-
Mov Cap-2 Maneuver	740	-	-	-	-	-
Stage 1	925	-	-	-	-	-
Stage 2	876	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	8.91	0	1.05
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	957	255	-
HCM Lane V/C Ratio	-	-	0.037	0.012	-
HCM Control Delay (s/veh)	-	-	8.9	7.4	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑			↑		↱
Traffic Vol, veh/h	343	16	0	358	0	14
Future Vol, veh/h	343	16	0	358	0	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	373	17	0	389	0	15

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	382
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	666
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	666
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.53
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	666	-	-	-
HCM Lane V/C Ratio	0.023	-	-	-
HCM Control Delay (s/veh)	10.5	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-

Intersection	
Int Delay, s/veh	1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	326	31	71	358	0	19
Future Vol, veh/h	326	31	71	358	0	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	354	34	77	389	0	21

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	388	0	-	371
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	4.12	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	2.218	-	-	3.318
Pot Cap-1 Maneuver	-	-	1170	-	0	675
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1170	-	-	675
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	1.37	10.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	675	-	-	1170	-
HCM Lane V/C Ratio	0.031	-	-	0.066	-
HCM Control Delay (s/veh)	10.5	-	-	8.3	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.2	-

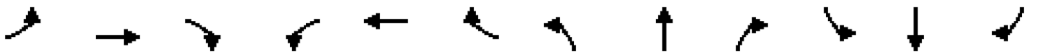
Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑			↑		↱
Traffic Vol, veh/h	321	24	0	429	0	28
Future Vol, veh/h	321	24	0	429	0	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	349	26	0	466	0	30

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	362
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	683
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	683
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.52
HCM LOS			B

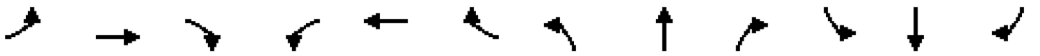
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	683	-	-	-
HCM Lane V/C Ratio	0.045	-	-	-
HCM Control Delay (s/veh)	10.5	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	8	162	125	25	222	253	85	240	19	175	207	4
Future Volume (veh/h)	8	162	125	25	222	253	85	240	19	175	207	4
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1885	1885	1885	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	8	167	129	26	229	261	88	261	20	180	213	4
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.92	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	1	1	1	3	3	3	3	3	3
Cap, veh/h	123	377	282	135	312	334	237	443	31	370	313	5
Arrive On Green	0.39	0.39	0.39	0.39	0.39	0.39	0.32	0.32	0.32	0.32	0.32	0.32
Sat Flow, veh/h	14	971	726	38	803	861	291	1363	95	624	964	16
Grp Volume(v), veh/h	304	0	0	516	0	0	369	0	0	397	0	0
Grp Sat Flow(s),veh/h/ln	1710	0	0	1703	0	0	1749	0	0	1604	0	0
Q Serve(g_s), s	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
Cycle Q Clear(g_c), s	4.1	0.0	0.0	8.2	0.0	0.0	5.3	0.0	0.0	6.3	0.0	0.0
Prop In Lane	0.03		0.42	0.05		0.51	0.24		0.05	0.45		0.01
Lane Grp Cap(c), veh/h	781	0	0	781	0	0	710	0	0	688	0	0
V/C Ratio(X)	0.39	0.00	0.00	0.66	0.00	0.00	0.52	0.00	0.00	0.58	0.00	0.00
Avail Cap(c_a), veh/h	1094	0	0	1092	0	0	1111	0	0	1038	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	7.1	0.0	0.0	8.4	0.0	0.0	8.9	0.0	0.0	9.2	0.0	0.0
Incr Delay (d2), s/veh	0.3	0.0	0.0	1.0	0.0	0.0	0.6	0.0	0.0	0.8	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0	1.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	7.4	0.0	0.0	9.3	0.0	0.0	9.5	0.0	0.0	9.9	0.0	0.0
LnGrp LOS	A			A			A			A		
Approach Vol, veh/h		304			516			369			397	
Approach Delay, s/veh		7.4			9.3			9.5			9.9	
Approach LOS		A			A			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		14.7		16.7		14.7		16.7				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		18.0		18.0		18.0		18.0				
Max Q Clear Time (g_c+I1), s		7.3		6.1		8.3		10.2				
Green Ext Time (p_c), s		1.7		1.3		1.9		1.9				

Intersection Summary	
HCM 7th Control Delay, s/veh	9.2
HCM 7th LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	5	197	82	15	233	179	127	259	30	187	168	7
Future Volume (veh/h)	5	197	82	15	233	179	127	259	30	187	168	7
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	5	212	88	16	251	192	137	278	32	201	181	8
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	0	0	0	2	2	2	3	3	3
Cap, veh/h	118	446	182	125	354	261	296	429	45	411	293	11
Arrive On Green	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Sat Flow, veh/h	8	1251	511	24	994	732	411	1185	123	663	809	31
Grp Volume(v), veh/h	305	0	0	459	0	0	447	0	0	390	0	0
Grp Sat Flow(s),veh/h/ln	1770	0	0	1751	0	0	1719	0	0	1503	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	4.3	0.0	0.0	7.2	0.0	0.0	6.6	0.0	0.0	6.4	0.0	0.0
Prop In Lane	0.02		0.29	0.03		0.42	0.31		0.07	0.52		0.02
Lane Grp Cap(c), veh/h	745	0	0	740	0	0	770	0	0	715	0	0
V/C Ratio(X)	0.41	0.00	0.00	0.62	0.00	0.00	0.58	0.00	0.00	0.55	0.00	0.00
Avail Cap(c_a), veh/h	1300	0	0	1287	0	0	1655	0	0	1465	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	8.0	0.0	0.0	8.9	0.0	0.0	8.6	0.0	0.0	8.5	0.0	0.0
Incr Delay (d2), s/veh	0.4	0.0	0.0	0.9	0.0	0.0	0.7	0.0	0.0	0.7	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	0.0	0.0	1.5	0.0	0.0	1.8	0.0	0.0	1.5	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	8.4	0.0	0.0	9.8	0.0	0.0	9.3	0.0	0.0	9.1	0.0	0.0
LnGrp LOS	A			A			A			A		
Approach Vol, veh/h		305			459			447			390	
Approach Delay, s/veh		8.4			9.8			9.3			9.1	
Approach LOS		A			A			A			A	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	16.1	15.9	16.1	15.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	29.5	21.5	29.5	21.5
Max Q Clear Time (g_c+I1), s	8.6	6.3	8.4	9.2
Green Ext Time (p_c), s	3.0	1.5	2.8	2.2

Intersection Summary	
HCM 7th Control Delay, s/veh	9.2
HCM 7th LOS	A

Intersection	
Intersection Delay, s/veh	17
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	270	29	15	490	2	79	30	15	7	24	0
Future Vol, veh/h	0	270	29	15	490	2	79	30	15	7	24	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	3	3	3	1	1	1	0	0	0	0	0	0
Mvmt Flow	0	293	32	16	533	2	86	33	16	8	26	0
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	12.6	21.5	11.1	9.9
HCM LOS	B	C	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	64%	0%	3%	23%
Vol Thru, %	24%	90%	97%	77%
Vol Right, %	12%	10%	0%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	124	299	507	31
LT Vol	79	0	15	7
Through Vol	30	270	490	24
RT Vol	15	29	2	0
Lane Flow Rate	135	325	551	34
Geometry Grp	1	1	1	1
Degree of Util (X)	0.231	0.465	0.755	0.06
Departure Headway (Hd)	6.158	5.152	4.934	6.428
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	582	699	738	555
Service Time	4.207	3.188	2.934	4.488
HCM Lane V/C Ratio	0.232	0.465	0.747	0.061
HCM Control Delay, s/veh	11.1	12.6	21.5	9.9
HCM Lane LOS	B	B	C	A
HCM 95th-tile Q	0.9	2.5	7	0.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	9	184	149	25	280	258	121	275	19	188	282	7
Future Volume (veh/h)	9	184	149	25	280	258	121	275	19	188	282	7
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1885	1885	1885	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	9	190	154	26	289	266	125	284	20	194	291	7
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	1	1	1	3	3	3	3	3	3
Cap, veh/h	77	367	288	87	341	300	160	373	26	244	478	11
Arrive On Green	0.38	0.38	0.38	0.38	0.38	0.38	0.09	0.22	0.22	0.14	0.26	0.26
Sat Flow, veh/h	14	962	755	36	894	785	1767	1713	121	1767	1804	43
Grp Volume(v), veh/h	353	0	0	581	0	0	125	0	304	194	0	298
Grp Sat Flow(s),veh/h/ln	1730	0	0	1715	0	0	1767	0	1834	1767	0	1848
Q Serve(g_s), s	0.0	0.0	0.0	5.8	0.0	0.0	3.6	0.0	8.0	5.5	0.0	7.3
Cycle Q Clear(g_c), s	8.2	0.0	0.0	16.2	0.0	0.0	3.6	0.0	8.0	5.5	0.0	7.3
Prop In Lane	0.03		0.44	0.04		0.46	1.00		0.07	1.00		0.02
Lane Grp Cap(c), veh/h	732	0	0	728	0	0	160	0	399	244	0	489
V/C Ratio(X)	0.48	0.00	0.00	0.80	0.00	0.00	0.78	0.00	0.76	0.80	0.00	0.61
Avail Cap(c_a), veh/h	826	0	0	822	0	0	258	0	696	327	0	773
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	12.4	0.0	0.0	14.8	0.0	0.0	22.9	0.0	18.9	21.5	0.0	16.6
Incr Delay (d2), s/veh	0.5	0.0	0.0	5.0	0.0	0.0	7.9	0.0	3.0	9.5	0.0	1.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.0	0.0	5.6	0.0	0.0	1.7	0.0	3.4	2.7	0.0	2.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	12.9	0.0	0.0	19.8	0.0	0.0	30.8	0.0	21.9	30.9	0.0	17.8
LnGrp LOS	B			B			C		C	C		B
Approach Vol, veh/h		353			581			429			492	
Approach Delay, s/veh		12.9			19.8			24.5			23.0	
Approach LOS		B			B			C			C	

Timer - Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	11.6	15.7		24.1	9.2	18.1		24.1
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5
Max Green Setting (Gmax), s	9.5	19.5		22.5	7.5	21.5		22.5
Max Q Clear Time (g_c+I1), s	7.5	10.0		10.2	5.6	9.3		18.2
Green Ext Time (p_c), s	0.1	1.2		1.6	0.1	1.3		1.4

Intersection Summary	
HCM 7th Control Delay, s/veh	20.4
HCM 7th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	34	69	67	8	75	2	61	427	14	2	564	34
Future Volume (veh/h)	34	69	67	8	75	2	61	427	14	2	564	34
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	37	75	73	9	82	2	66	464	15	2	613	37
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	3
Cap, veh/h	145	128	108	112	281	6	115	886	29	5	751	45
Arrive On Green	0.16	0.16	0.16	0.16	0.16	0.16	0.06	0.50	0.50	0.00	0.43	0.43
Sat Flow, veh/h	224	780	654	85	1707	39	1767	1787	58	1767	1732	105
Grp Volume(v), veh/h	185	0	0	93	0	0	66	0	479	2	0	650
Grp Sat Flow(s),veh/h/ln	1658	0	0	1831	0	0	1767	0	1845	1767	0	1837
Q Serve(g_s), s	2.1	0.0	0.0	0.0	0.0	0.0	1.5	0.0	7.1	0.0	0.0	12.4
Cycle Q Clear(g_c), s	4.1	0.0	0.0	1.8	0.0	0.0	1.5	0.0	7.1	0.0	0.0	12.4
Prop In Lane	0.20		0.39	0.10		0.02	1.00		0.03	1.00		0.06
Lane Grp Cap(c), veh/h	380	0	0	400	0	0	115	0	915	5	0	796
V/C Ratio(X)	0.49	0.00	0.00	0.23	0.00	0.00	0.58	0.00	0.52	0.41	0.00	0.82
Avail Cap(c_a), veh/h	846	0	0	910	0	0	225	0	1078	221	0	1068
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	15.7	0.0	0.0	14.7	0.0	0.0	18.2	0.0	6.9	19.9	0.0	9.9
Incr Delay (d2), s/veh	1.0	0.0	0.0	0.3	0.0	0.0	4.5	0.0	0.5	47.6	0.0	3.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.0	0.0	0.7	0.0	0.0	0.7	0.0	1.9	0.1	0.0	4.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	16.6	0.0	0.0	15.0	0.0	0.0	22.7	0.0	7.3	67.5	0.0	13.6
LnGrp LOS	B			B			C		A	E		B
Approach Vol, veh/h		185			93			545			652	
Approach Delay, s/veh		16.6			15.0			9.2			13.8	
Approach LOS		B			B			A			B	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	4.6	24.4		11.1	7.1	21.9		11.1				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	5.6	23.4		18.1	5.1	23.3		18.1				
Max Q Clear Time (g_c+I1), s	2.0	9.1		6.1	3.5	14.4		3.8				
Green Ext Time (p_c), s	0.0	2.6		0.8	0.0	2.9		0.3				

Intersection Summary	
HCM 7th Control Delay, s/veh	12.5
HCM 7th LOS	B

Intersection	
Intersection Delay, s/veh	17.3
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	1	422	49	27	379	7	76	39	20	2	39	1
Future Vol, veh/h	1	422	49	27	379	7	76	39	20	2	39	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	2	2	2	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	449	52	29	403	7	81	41	21	2	41	1
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	19.8	17	11.6	10.3
HCM LOS	C	C	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	56%	0%	7%	5%
Vol Thru, %	29%	89%	92%	93%
Vol Right, %	15%	10%	2%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	135	472	413	42
LT Vol	76	1	27	2
Through Vol	39	422	379	39
RT Vol	20	49	7	1
Lane Flow Rate	144	502	439	45
Geometry Grp	1	1	1	1
Degree of Util (X)	0.253	0.712	0.636	0.082
Departure Headway (Hd)	6.345	5.108	5.213	6.617
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	564	708	690	538
Service Time	4.406	3.149	3.256	4.694
HCM Lane V/C Ratio	0.255	0.709	0.636	0.084
HCM Control Delay, s/veh	11.6	19.8	17	10.3
HCM Lane LOS	B	C	C	B
HCM 95th-tile Q	1	6	4.6	0.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	6	257	122	15	287	187	172	351	31	194	223	8
Future Volume (veh/h)	6	257	122	15	287	187	172	351	31	194	223	8
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	6	276	131	16	309	201	185	377	33	209	240	9
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	0	0	0	2	2	2	3	3	3
Cap, veh/h	69	405	189	75	358	226	233	460	40	260	510	19
Arrive On Green	0.34	0.34	0.34	0.34	0.34	0.34	0.13	0.27	0.27	0.15	0.29	0.29
Sat Flow, veh/h	7	1206	564	21	1067	673	1781	1695	148	1767	1777	67
Grp Volume(v), veh/h	413	0	0	526	0	0	185	0	410	209	0	249
Grp Sat Flow(s),veh/h/ln	1777	0	0	1761	0	0	1781	0	1844	1767	0	1844
Q Serve(g_s), s	0.0	0.0	0.0	4.4	0.0	0.0	5.5	0.0	11.4	6.3	0.0	6.1
Cycle Q Clear(g_c), s	11.1	0.0	0.0	15.4	0.0	0.0	5.5	0.0	11.4	6.3	0.0	6.1
Prop In Lane	0.01		0.32	0.03		0.38	1.00		0.08	1.00		0.04
Lane Grp Cap(c), veh/h	663	0	0	659	0	0	233	0	500	260	0	529
V/C Ratio(X)	0.62	0.00	0.00	0.80	0.00	0.00	0.79	0.00	0.82	0.81	0.00	0.47
Avail Cap(c_a), veh/h	730	0	0	726	0	0	315	0	690	339	0	717
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	15.8	0.0	0.0	17.2	0.0	0.0	23.1	0.0	18.7	22.6	0.0	16.1
Incr Delay (d2), s/veh	1.4	0.0	0.0	5.8	0.0	0.0	9.5	0.0	5.6	10.2	0.0	0.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	0.0	0.0	6.0	0.0	0.0	2.8	0.0	5.1	3.1	0.0	2.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	17.2	0.0	0.0	23.0	0.0	0.0	32.6	0.0	24.3	32.9	0.0	16.7
LnGrp LOS	B			C			C		C	C		B
Approach Vol, veh/h		413			526			595			458	
Approach Delay, s/veh		17.2			23.0			26.9			24.1	
Approach LOS		B			C			C			C	

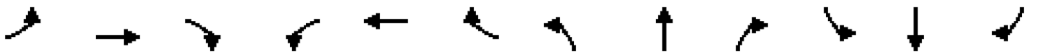
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.5	19.4		22.9	11.7	20.2		22.9				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	10.5	20.5		20.5	9.7	21.3		20.5				
Max Q Clear Time (g_c+I1), s	8.3	13.4		13.1	7.5	8.1		17.4				
Green Ext Time (p_c), s	0.1	1.4		1.4	0.1	1.1		0.9				

Intersection Summary		
HCM 7th Control Delay, s/veh	23.2	
HCM 7th LOS	C	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	38	98	91	15	96	2	88	616	8	1	436	38
Future Volume (veh/h)	38	98	91	15	96	2	88	616	8	1	436	38
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	40	103	96	16	101	2	93	648	9	1	459	40
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.92	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	3	3	3
Cap, veh/h	144	168	137	129	340	6	145	827	11	5	622	54
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20	0.08	0.45	0.45	0.00	0.37	0.37
Sat Flow, veh/h	177	822	671	119	1666	31	1781	1840	26	1767	1683	147
Grp Volume(v), veh/h	239	0	0	119	0	0	93	0	657	1	0	499
Grp Sat Flow(s),veh/h/ln	1670	0	0	1816	0	0	1781	0	1866	1767	0	1829
Q Serve(g_s), s	2.3	0.0	0.0	0.0	0.0	0.0	2.0	0.0	11.7	0.0	0.0	9.2
Cycle Q Clear(g_c), s	5.1	0.0	0.0	2.1	0.0	0.0	2.0	0.0	11.7	0.0	0.0	9.2
Prop In Lane	0.17		0.40	0.13		0.02	1.00		0.01	1.00		0.08
Lane Grp Cap(c), veh/h	448	0	0	475	0	0	145	0	839	5	0	676
V/C Ratio(X)	0.53	0.00	0.00	0.25	0.00	0.00	0.64	0.00	0.78	0.22	0.00	0.74
Avail Cap(c_a), veh/h	878	0	0	931	0	0	228	0	1322	226	0	1296
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	14.4	0.0	0.0	13.2	0.0	0.0	17.4	0.0	9.1	19.5	0.0	10.7
Incr Delay (d2), s/veh	1.0	0.0	0.0	0.3	0.0	0.0	4.7	0.0	1.6	23.0	0.0	1.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	0.0	0.0	0.8	0.0	0.0	0.9	0.0	3.5	0.0	0.0	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	15.4	0.0	0.0	13.5	0.0	0.0	22.1	0.0	10.8	42.4	0.0	12.3
LnGrp LOS	B			B			C		B	D		B
Approach Vol, veh/h		239			119			750			500	
Approach Delay, s/veh		15.4			13.5			12.2			12.3	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	4.6	22.1		12.5	7.7	19.0		12.5				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	5.6	27.7		18.3	5.0	27.7		18.3				
Max Q Clear Time (g_c+I1), s	2.0	13.7		7.1	4.0	11.2		4.1				
Green Ext Time (p_c), s	0.0	3.9		1.0	0.0	3.0		0.5				

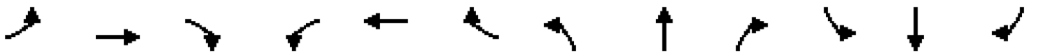
Intersection Summary	
HCM 7th Control Delay, s/veh	12.8
HCM 7th LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	84	223	267	547	293	337	193	784	265	150	913	57
Future Volume (veh/h)	84	223	267	547	293	337	193	784	265	150	913	57
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	87	230	275	564	302	347	199	808	273	155	941	59
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	3	3	3
Cap, veh/h	123	366	311	615	544	461	223	1592	777	184	1473	457
Arrive On Green	0.07	0.20	0.20	0.18	0.29	0.29	0.13	0.31	0.31	0.10	0.29	0.29
Sat Flow, veh/h	1767	1856	1572	3456	1870	1585	1781	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	87	230	275	564	302	347	199	808	273	155	941	59
Grp Sat Flow(s),veh/h/ln	1767	1856	1572	1728	1870	1585	1781	1702	1585	1767	1689	1572
Q Serve(g_s), s	5.1	12.0	18.1	17.0	14.5	21.1	11.7	13.7	11.3	9.1	17.2	2.9
Cycle Q Clear(g_c), s	5.1	12.0	18.1	17.0	14.5	21.1	11.7	13.7	11.3	9.1	17.2	2.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	123	366	311	615	544	461	223	1592	777	184	1473	457
V/C Ratio(X)	0.71	0.63	0.89	0.92	0.56	0.75	0.89	0.51	0.35	0.84	0.64	0.13
Avail Cap(c_a), veh/h	147	411	348	615	564	478	223	1761	829	231	1776	551
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.3	39.0	41.4	42.8	31.8	34.2	45.7	29.9	16.7	46.7	32.8	27.7
Incr Delay (d2), s/veh	8.4	2.8	21.7	18.3	2.1	8.0	32.0	0.8	0.9	16.4	1.5	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	5.6	8.6	8.6	6.6	8.8	7.1	5.7	4.0	4.8	7.2	1.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	56.7	41.8	63.1	61.1	33.9	42.1	77.7	30.7	17.6	63.1	34.3	28.1
LnGrp LOS	E	D	E	E	C	D	E	C	B	E	C	C
Approach Vol, veh/h		592			1213			1280			1155	
Approach Delay, s/veh		53.9			48.9			35.2			37.9	
Approach LOS		D			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.6	36.6	13.6	37.4	16.4	38.8	23.5	27.5
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	13.3	37.2	8.8	32.0	13.9	36.6	18.9	23.5
Max Q Clear Time (g_c+I1), s	13.7	19.2	7.1	23.1	11.1	15.7	19.0	20.1
Green Ext Time (p_c), s	0.0	11.7	0.0	3.7	0.1	13.2	0.0	0.9

Intersection Summary	
HCM 7th Control Delay, s/veh	42.5
HCM 7th LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	278	126	209	197	200	76	160	861	134	45	1252	449
Future Volume (veh/h)	278	126	209	197	200	76	160	861	134	45	1252	449
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	287	130	215	203	206	78	165	888	138	46	1291	463
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	0	0	0	2	2	2	3	3	3
Cap, veh/h	337	357	302	249	264	223	270	1979	614	101	1908	592
Arrive On Green	0.19	0.19	0.19	0.14	0.14	0.14	0.08	0.39	0.39	0.06	0.38	0.38
Sat Flow, veh/h	1781	1870	1585	1810	1900	1610	3456	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	287	130	215	203	206	78	165	888	138	46	1291	463
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1810	1900	1610	1728	1702	1585	1767	1689	1572
Q Serve(g_s), s	15.8	6.1	12.9	11.0	10.6	4.4	4.7	13.1	5.9	2.6	21.6	26.4
Cycle Q Clear(g_c), s	15.8	6.1	12.9	11.0	10.6	4.4	4.7	13.1	5.9	2.6	21.6	26.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	337	357	302	249	264	223	270	1979	614	101	1908	592
V/C Ratio(X)	0.85	0.36	0.71	0.82	0.78	0.35	0.61	0.45	0.22	0.45	0.68	0.78
Avail Cap(c_a), veh/h	469	443	375	393	362	307	276	1979	614	152	1949	605
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.7	35.7	38.4	42.5	42.2	39.5	45.2	23.0	20.8	46.2	26.4	27.9
Incr Delay (d2), s/veh	16.7	1.7	9.0	16.4	14.0	2.6	2.7	0.5	0.6	1.2	1.6	8.8
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.2	2.9	5.6	6.0	6.0	1.9	2.1	5.2	2.2	1.2	8.7	10.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	56.4	37.4	47.4	58.8	56.1	42.1	47.9	23.5	21.4	47.4	28.0	36.7
LnGrp LOS	E	D	D	E	E	D	D	C	C	D	C	D
Approach Vol, veh/h		632			487			1191			1800	
Approach Delay, s/veh		49.4			55.0			26.7			30.8	
Approach LOS		D			E			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.2	43.9	24.5	19.8	12.1	45.0	19.2	25.0
Change Period (Y+Rc), s	5.3	5.7	5.3	5.7	6.3	5.7	5.3	5.7
Max Green Setting (Gmax), s	8.1	39.0	26.7	19.3	8.7	37.3	22.0	24.0
Max Q Clear Time (g_c+I1), s	6.7	28.4	17.8	12.6	4.6	15.1	13.0	14.9
Green Ext Time (p_c), s	0.0	9.8	1.4	1.4	0.0	13.8	0.9	2.0

Intersection Summary	
HCM 7th Control Delay, s/veh	35.3
HCM 7th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	312	60	45	964	7	70	56	36	36	47	1
Future Volume (veh/h)	0	312	60	45	964	7	70	56	36	36	47	1
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1885	1885	1885	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	0	339	65	49	1048	8	76	61	39	39	51	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	1	1	1	0	0	0	0	0	0
Cap, veh/h	0	1040	199	100	1226	9	183	101	54	172	183	3
Arrive On Green	0.00	0.69	0.69	0.69	0.69	0.69	0.15	0.15	0.15	0.15	0.15	0.15
Sat Flow, veh/h	0	1513	290	45	1783	13	602	686	367	527	1235	20
Grp Volume(v), veh/h	0	0	404	1105	0	0	176	0	0	91	0	0
Grp Sat Flow(s),veh/h/ln	0	0	1803	1842	0	0	1654	0	0	1782	0	0
Q Serve(g_s), s	0.0	0.0	4.9	8.7	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	4.9	25.1	0.0	0.0	5.4	0.0	0.0	2.3	0.0	0.0
Prop In Lane	0.00		0.16	0.04		0.01	0.43		0.22	0.43		0.01
Lane Grp Cap(c), veh/h	0	0	1240	1335	0	0	339	0	0	358	0	0
V/C Ratio(X)	0.00	0.00	0.33	0.83	0.00	0.00	0.52	0.00	0.00	0.25	0.00	0.00
Avail Cap(c_a), veh/h	0	0	1734	1831	0	0	640	0	0	662	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	3.4	6.5	0.0	0.0	22.0	0.0	0.0	20.8	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.2	2.4	0.0	0.0	1.2	0.0	0.0	0.4	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	0.8	4.7	0.0	0.0	2.1	0.0	0.0	1.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	0.0	3.6	8.9	0.0	0.0	23.3	0.0	0.0	21.2	0.0	0.0
LnGrp LOS			A	A			C			C		
Approach Vol, veh/h		404			1105			176			91	
Approach Delay, s/veh		3.6			8.9			23.3			21.2	
Approach LOS		A			A			C			C	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	12.6	42.0	12.6	42.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.5	52.5	18.5	52.5
Max Q Clear Time (g_c+I1), s	7.4	6.9	4.3	27.1
Green Ext Time (p_c), s	0.7	2.6	0.3	10.5

Intersection Summary	
HCM 7th Control Delay, s/veh	9.7
HCM 7th LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	16	259	181	63	525	279	187	317	35	250	544	24
Future Volume (veh/h)	16	259	181	63	525	279	187	317	35	250	544	24
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1885	1885	1885	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	16	267	187	65	541	288	193	327	36	258	561	25
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	1	1	1	3	3	3	3	3	3
Cap, veh/h	153	641	543	322	651	552	335	640	542	524	655	29
Arrive On Green	0.35	0.35	0.35	0.35	0.35	0.35	0.10	0.34	0.34	0.12	0.37	0.37
Sat Flow, veh/h	656	1856	1572	944	1885	1598	1767	1856	1572	1767	1763	79
Grp Volume(v), veh/h	16	267	187	65	541	288	193	327	36	258	0	586
Grp Sat Flow(s),veh/h/ln	656	1856	1572	944	1885	1598	1767	1856	1572	1767	0	1841
Q Serve(g_s), s	1.7	8.0	6.4	4.1	19.1	10.4	5.0	10.2	1.1	6.6	0.0	21.2
Cycle Q Clear(g_c), s	20.7	8.0	6.4	12.1	19.1	10.4	5.0	10.2	1.1	6.6	0.0	21.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.04
Lane Grp Cap(c), veh/h	153	641	543	322	651	552	335	640	542	524	0	684
V/C Ratio(X)	0.10	0.42	0.34	0.20	0.83	0.52	0.58	0.51	0.07	0.49	0.00	0.86
Avail Cap(c_a), veh/h	248	909	771	458	924	783	425	920	779	675	0	1025
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	31.3	18.1	17.6	22.7	21.8	18.9	16.0	18.9	15.9	12.9	0.0	21.0
Incr Delay (d2), s/veh	0.3	0.4	0.4	0.3	4.5	0.8	1.6	0.6	0.1	0.7	0.0	4.8
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	3.1	2.1	0.9	8.1	3.5	1.9	4.2	0.4	2.4	0.0	9.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	31.6	18.6	18.0	23.0	26.3	19.7	17.6	19.5	16.0	13.7	0.0	25.8
LnGrp LOS	C	B	B	C	C	B	B	B	B	B		C
Approach Vol, veh/h		470			894			556			844	
Approach Delay, s/veh		18.8			23.9			18.6			22.1	
Approach LOS		B			C			B			C	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	13.4	29.5		29.5	11.5	31.4		29.5				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	15.5	35.9		35.5	10.7	40.3		35.5				
Max Q Clear Time (g_c+I1), s	8.6	12.2		22.7	7.0	23.2		21.1				
Green Ext Time (p_c), s	0.4	2.1		1.8	0.2	3.7		3.9				

Intersection Summary	
HCM 7th Control Delay, s/veh	21.4
HCM 7th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	85	129	121	22	144	4	96	533	18	3	990	140
Future Volume (veh/h)	85	129	121	22	144	4	96	533	18	3	990	140
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	92	140	132	24	157	4	104	579	20	3	1076	152
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	3
Cap, veh/h	118	172	162	48	281	7	154	1505	52	133	1305	184
Arrive On Green	0.07	0.19	0.19	0.03	0.15	0.15	0.09	0.43	0.43	0.08	0.42	0.42
Sat Flow, veh/h	1781	885	835	1781	1816	46	1767	3477	120	1767	3102	437
Grp Volume(v), veh/h	92	0	272	24	0	161	104	293	306	3	611	617
Grp Sat Flow(s),veh/h/ln	1781	0	1720	1781	0	1862	1767	1763	1834	1767	1763	1777
Q Serve(g_s), s	3.4	0.0	10.1	0.9	0.0	5.3	3.8	7.5	7.5	0.1	20.4	20.5
Cycle Q Clear(g_c), s	3.4	0.0	10.1	0.9	0.0	5.3	3.8	7.5	7.5	0.1	20.4	20.5
Prop In Lane	1.00		0.49	1.00		0.02	1.00		0.07	1.00		0.25
Lane Grp Cap(c), veh/h	118	0	333	48	0	288	154	763	794	133	742	748
V/C Ratio(X)	0.78	0.00	0.82	0.50	0.00	0.56	0.67	0.38	0.38	0.02	0.82	0.83
Avail Cap(c_a), veh/h	148	0	477	137	0	505	173	889	925	133	849	856
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	30.5	0.0	25.6	31.9	0.0	26.0	29.4	12.8	12.8	28.4	17.0	17.1
Incr Delay (d2), s/veh	18.7	0.0	7.2	7.8	0.0	1.7	8.5	0.3	0.3	0.1	5.9	6.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	0.0	4.5	0.5	0.0	2.4	1.9	2.7	2.8	0.0	8.5	8.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	49.3	0.0	32.8	39.7	0.0	27.7	37.9	13.1	13.1	28.5	22.9	23.0
LnGrp LOS	D		C	D		C	D	B	B	C	C	C
Approach Vol, veh/h		364			185			703			1231	
Approach Delay, s/veh		37.0			29.2			16.8			23.0	
Approach LOS		D			C			B			C	

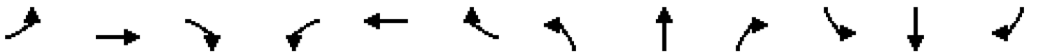
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.5	33.3	6.3	17.4	10.3	32.5	8.9	14.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.0	33.5	5.1	18.4	6.5	32.0	5.5	18.0
Max Q Clear Time (g_c+I1), s	12.1	9.5	2.9	12.1	5.8	22.5	5.4	7.3
Green Ext Time (p_c), s	0.0	3.8	0.0	0.8	0.0	5.5	0.0	0.6

Intersection Summary	
HCM 7th Control Delay, s/veh	23.8
HCM 7th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	150	564	508	106	503	322	260	397	51	297	994	221
Future Volume (veh/h)	150	564	508	106	503	322	260	397	51	297	994	221
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	163	613	552	115	547	350	283	432	55	323	1080	240
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	190	983	596	160	924	724	344	828	105	351	1272	568
Arrive On Green	0.11	0.28	0.28	0.09	0.26	0.26	0.10	0.26	0.26	0.20	0.36	0.36
Sat Flow, veh/h	1767	3526	1572	1767	3526	1572	3428	3148	399	1767	3526	1572
Grp Volume(v), veh/h	163	613	552	115	547	350	283	241	246	323	1080	240
Grp Sat Flow(s),veh/h/ln	1767	1763	1572	1767	1763	1572	1714	1763	1784	1767	1763	1572
Q Serve(g_s), s	10.7	18.0	33.0	7.5	16.0	18.3	9.6	13.8	14.0	21.2	33.4	13.6
Cycle Q Clear(g_c), s	10.7	18.0	33.0	7.5	16.0	18.3	9.6	13.8	14.0	21.2	33.4	13.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.22	1.00		1.00
Lane Grp Cap(c), veh/h	190	983	596	160	924	724	344	463	469	351	1272	568
V/C Ratio(X)	0.86	0.62	0.93	0.72	0.59	0.48	0.82	0.52	0.52	0.92	0.85	0.42
Avail Cap(c_a), veh/h	224	983	596	179	924	724	550	536	543	433	1370	611
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.9	37.3	35.1	52.3	38.1	22.1	52.2	37.2	37.3	46.5	34.8	28.5
Incr Delay (d2), s/veh	21.5	1.5	20.8	9.0	1.3	0.8	2.5	1.0	1.0	20.3	5.2	0.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.7	7.6	17.6	3.6	6.8	6.4	4.1	5.9	6.0	11.2	15.0	5.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	73.4	38.7	56.0	61.4	39.5	23.0	54.7	38.2	38.3	66.8	40.1	29.2
LnGrp LOS	E	D	E	E	D	C	D	D	D	E	D	C
Approach Vol, veh/h		1328			1012			770			1643	
Approach Delay, s/veh		50.2			36.2			44.3			43.7	
Approach LOS		D			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.9	48.7	16.7	37.0	27.5	37.1	14.7	39.0
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	11.9	46.0	15.0	30.0	29.0	36.0	12.0	33.0
Max Q Clear Time (g_c+I1), s	11.6	35.4	12.7	20.3	23.2	16.0	9.5	35.0
Green Ext Time (p_c), s	0.3	7.3	0.0	4.7	0.3	2.7	0.0	0.0

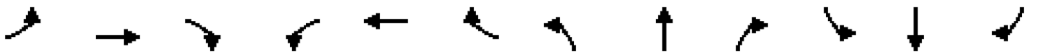
Intersection Summary	
HCM 7th Control Delay, s/veh	44.0
HCM 7th LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	259	237	526	255	259	215	889	670	252	655	42
Future Volume (veh/h)	22	259	237	526	255	259	215	889	670	252	655	42
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	24	282	258	572	277	282	234	966	728	274	712	46
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	0	0	0	1	1	1	0	0	0
Cap, veh/h	67	332	281	558	540	457	398	1683	777	243	1244	386
Arrive On Green	0.04	0.18	0.18	0.16	0.28	0.28	0.22	0.33	0.33	0.13	0.24	0.24
Sat Flow, veh/h	1781	1870	1585	3510	1900	1610	1795	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	24	282	258	572	277	282	234	966	728	274	712	46
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1755	1900	1610	1795	1716	1598	1810	1729	1610
Q Serve(g_s), s	1.4	16.0	10.5	17.4	13.4	11.0	12.8	17.0	21.7	14.7	13.2	2.0
Cycle Q Clear(g_c), s	1.4	16.0	10.5	17.4	13.4	11.0	12.8	17.0	21.7	14.7	13.2	2.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	67	332	281	558	540	457	398	1683	777	243	1244	386
V/C Ratio(X)	0.36	0.85	0.92	1.02	0.51	0.62	0.59	0.57	0.94	1.13	0.57	0.12
Avail Cap(c_a), veh/h	130	402	340	558	544	461	398	1755	799	243	1863	578
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.3	43.6	15.9	46.0	32.8	14.9	38.1	30.5	9.0	47.4	36.6	21.2
Incr Delay (d2), s/veh	1.2	14.1	26.5	44.5	1.7	3.7	1.6	1.1	19.5	96.2	1.4	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	8.5	5.7	10.8	6.2	4.2	5.8	7.1	9.4	13.1	5.7	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	52.5	57.7	42.4	90.5	34.5	18.6	39.7	31.5	28.5	143.5	38.0	21.6
LnGrp LOS	D	E	D	F	C	B	D	C	C	F	D	C
Approach Vol, veh/h		564			1131			1928			1032	
Approach Delay, s/veh		50.5			58.8			31.4			65.3	
Approach LOS		D			E			C			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	29.5	31.9	10.3	37.6	20.0	41.5	22.0	25.9
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	12.7	39.3	8.0	31.3	14.7	37.3	17.4	23.5
Max Q Clear Time (g_c+I1), s	14.8	15.2	3.4	15.4	16.7	23.7	19.4	18.0
Green Ext Time (p_c), s	0.0	11.0	0.0	4.6	0.0	12.1	0.0	1.4

Intersection Summary	
HCM 7th Control Delay, s/veh	47.9
HCM 7th LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	449	255	333	246	210	107	273	1373	280	120	908	401
Future Volume (veh/h)	449	255	333	246	210	107	273	1373	280	120	908	401
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	473	268	351	259	221	113	287	1445	295	126	956	422
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	1	1	1	0	0	0
Cap, veh/h	498	467	395	293	251	213	345	1582	491	153	1564	486
Arrive On Green	0.28	0.25	0.25	0.16	0.13	0.13	0.10	0.31	0.31	0.08	0.30	0.30
Sat Flow, veh/h	1810	1900	1610	1810	1900	1610	3483	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	473	268	351	259	221	113	287	1445	295	126	956	422
Grp Sat Flow(s),veh/h/ln	1810	1900	1610	1810	1900	1610	1742	1716	1598	1810	1729	1610
Q Serve(g_s), s	29.4	14.2	24.1	16.0	13.1	7.5	9.3	31.0	18.0	7.8	18.1	28.4
Cycle Q Clear(g_c), s	29.4	14.2	24.1	16.0	13.1	7.5	9.3	31.0	18.0	7.8	18.1	28.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	498	467	395	293	251	213	345	1582	491	153	1564	486
V/C Ratio(X)	0.95	0.57	0.89	0.88	0.88	0.53	0.83	0.91	0.60	0.82	0.61	0.87
Avail Cap(c_a), veh/h	501	467	395	330	254	215	377	1586	492	153	1564	486
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.7	38.0	41.7	47.0	48.8	46.4	50.7	38.2	33.7	51.6	34.3	37.9
Incr Delay (d2), s/veh	28.8	3.4	22.6	25.9	30.1	5.7	12.5	9.3	4.3	27.6	1.4	17.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	16.6	6.9	11.8	9.3	8.3	3.3	4.6	14.2	7.3	4.7	7.8	13.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	69.6	41.3	64.3	72.9	78.9	52.1	63.1	47.5	38.0	79.2	35.7	55.5
LnGrp LOS	E	D	E	E	E	D	E	D	D	E	D	E
Approach Vol, veh/h		1092			593			2027			1504	
Approach Delay, s/veh		60.9			71.2			48.3			44.9	
Approach LOS		E			E			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.6	40.2	36.8	20.9	16.0	40.9	23.8	33.8
Change Period (Y+Rc), s	5.3	5.7	5.3	5.7	6.3	5.7	5.3	5.7
Max Green Setting (Gmax), s	12.4	33.6	31.7	15.3	9.7	35.3	20.9	26.1
Max Q Clear Time (g_c+I1), s	11.3	30.4	31.4	15.1	9.8	33.0	18.0	26.1
Green Ext Time (p_c), s	0.1	2.9	0.1	0.1	0.0	2.2	0.5	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	52.6
HCM 7th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	783	85	59	622	36	101	74	59	10	75	1
Future Volume (veh/h)	1	783	85	59	622	36	101	74	59	10	75	1
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	1	833	90	63	662	38	107	79	63	11	80	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	0	0	0	0	0	0	0	0	0
Cap, veh/h	80	986	106	135	943	52	233	128	84	108	361	4
Arrive On Green	0.59	0.59	0.59	0.59	0.59	0.59	0.21	0.21	0.21	0.21	0.21	0.21
Sat Flow, veh/h	0	1659	179	82	1585	87	580	619	406	94	1748	20
Grp Volume(v), veh/h	924	0	0	763	0	0	249	0	0	92	0	0
Grp Sat Flow(s),veh/h/ln	1838	0	0	1755	0	0	1605	0	0	1863	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	18.5	0.0	0.0	12.8	0.0	0.0	6.5	0.0	0.0	1.8	0.0	0.0
Prop In Lane	0.00		0.10	0.08		0.05	0.43		0.25	0.12		0.01
Lane Grp Cap(c), veh/h	1172	0	0	1130	0	0	445	0	0	474	0	0
V/C Ratio(X)	0.79	0.00	0.00	0.68	0.00	0.00	0.56	0.00	0.00	0.19	0.00	0.00
Avail Cap(c_a), veh/h	1601	0	0	1506	0	0	758	0	0	835	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	7.5	0.0	0.0	6.3	0.0	0.0	16.7	0.0	0.0	15.0	0.0	0.0
Incr Delay (d2), s/veh	1.9	0.0	0.0	0.7	0.0	0.0	1.1	0.0	0.0	0.2	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.9	0.0	0.0	2.5	0.0	0.0	2.2	0.0	0.0	0.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	9.4	0.0	0.0	7.0	0.0	0.0	17.8	0.0	0.0	15.2	0.0	0.0
LnGrp LOS	A			A			B			B		
Approach Vol, veh/h		924			763			249			92	
Approach Delay, s/veh		9.4			7.0			17.8			15.2	
Approach LOS		A			A			B			B	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	13.9	31.4	13.9	31.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.5	37.5	18.5	37.5
Max Q Clear Time (g_c+I1), s	8.5	20.5	3.8	14.8
Green Ext Time (p_c), s	1.0	6.4	0.3	6.0

Intersection Summary	
HCM 7th Control Delay, s/veh	9.8
HCM 7th LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	17	497	180	35	505	223	260	628	64	226	310	15
Future Volume (veh/h)	17	497	180	35	505	223	260	628	64	226	310	15
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	18	534	194	38	543	240	280	675	69	243	333	16
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	0	0	0	2	2	2	3	3	3
Cap, veh/h	114	631	535	117	641	543	580	727	616	272	382	18
Arrive On Green	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.39	0.39	0.15	0.22	0.22
Sat Flow, veh/h	691	1870	1585	738	1900	1610	1781	1870	1585	1767	1756	84
Grp Volume(v), veh/h	18	534	194	38	543	240	280	675	69	243	0	349
Grp Sat Flow(s),veh/h/ln	691	1870	1585	738	1900	1610	1781	1870	1585	1767	0	1840
Q Serve(g_s), s	2.8	29.8	10.4	5.7	29.9	13.1	14.2	38.9	3.1	15.2	0.0	20.6
Cycle Q Clear(g_c), s	32.7	29.8	10.4	35.5	29.9	13.1	14.2	38.9	3.1	15.2	0.0	20.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.05
Lane Grp Cap(c), veh/h	114	631	535	117	641	543	580	727	616	272	0	400
V/C Ratio(X)	0.16	0.85	0.36	0.32	0.85	0.44	0.48	0.93	0.11	0.89	0.00	0.87
Avail Cap(c_a), veh/h	117	640	542	121	650	551	580	806	683	306	0	629
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	49.8	34.6	28.2	51.1	34.6	29.1	30.4	32.9	22.0	46.7	0.0	42.5
Incr Delay (d2), s/veh	0.6	10.2	0.4	1.6	10.1	0.6	0.6	16.0	0.1	24.6	0.0	8.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	14.8	3.9	1.1	14.9	4.9	6.2	20.4	1.2	8.5	0.0	10.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	50.4	44.8	28.6	52.6	44.7	29.6	31.0	48.9	22.1	71.4	0.0	50.6
LnGrp LOS	D	D	C	D	D	C	C	D	C	E		D
Approach Vol, veh/h		746			821			1024			592	
Approach Delay, s/veh		40.7			40.7			42.2			59.1	
Approach LOS		D			D			D			E	

Timer - Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	21.8	48.3		42.5	41.1	29.0		42.5
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5
Max Green Setting (Gmax), s	19.5	48.5		38.5	29.5	38.5		38.5
Max Q Clear Time (g_c+I1), s	17.2	40.9		34.7	16.2	22.6		37.5
Green Ext Time (p_c), s	0.2	2.9		1.5	0.7	1.9		0.5

Intersection Summary	
HCM 7th Control Delay, s/veh	44.6
HCM 7th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	129	179	149	23	177	5	161	1100	18	4	616	111
Future Volume (veh/h)	129	179	149	23	177	5	161	1100	18	4	616	111
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	136	188	157	24	186	5	169	1158	19	4	648	117
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	3	3	3
Cap, veh/h	174	231	193	49	317	9	215	1491	24	10	899	162
Arrive On Green	0.10	0.24	0.24	0.03	0.17	0.17	0.12	0.42	0.42	0.01	0.30	0.30
Sat Flow, veh/h	1781	942	787	1781	1813	49	1781	3578	59	1767	2984	538
Grp Volume(v), veh/h	136	0	345	24	0	191	169	575	602	4	382	383
Grp Sat Flow(s),veh/h/ln	1781	0	1729	1781	0	1862	1781	1777	1860	1767	1763	1759
Q Serve(g_s), s	4.4	0.0	11.1	0.8	0.0	5.6	5.4	16.4	16.5	0.1	11.4	11.4
Cycle Q Clear(g_c), s	4.4	0.0	11.1	0.8	0.0	5.6	5.4	16.4	16.5	0.1	11.4	11.4
Prop In Lane	1.00		0.46	1.00		0.03	1.00		0.03	1.00		0.31
Lane Grp Cap(c), veh/h	174	0	423	49	0	325	215	740	775	10	531	530
V/C Ratio(X)	0.78	0.00	0.81	0.49	0.00	0.59	0.79	0.78	0.78	0.42	0.72	0.72
Avail Cap(c_a), veh/h	257	0	628	154	0	569	348	920	962	150	718	716
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.0	0.0	21.0	28.2	0.0	22.4	25.2	14.8	14.8	29.2	18.4	18.4
Incr Delay (d2), s/veh	8.9	0.0	5.2	7.3	0.0	1.7	6.2	3.4	3.2	27.0	2.3	2.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	0.0	4.7	0.4	0.0	2.4	2.5	6.3	6.6	0.1	4.5	4.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	34.8	0.0	26.2	35.6	0.0	24.1	31.4	18.2	18.1	56.2	20.7	20.7
LnGrp LOS	C		C	D		C	C	B	B	E	C	C
Approach Vol, veh/h		481			215			1346			769	
Approach Delay, s/veh		28.6			25.3			19.8			20.9	
Approach LOS		C			C			B			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.8	29.1	6.1	18.9	11.6	22.3	10.3	14.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.6	30.5	5.1	21.4	11.5	24.0	8.5	18.0
Max Q Clear Time (g_c+I1), s	2.1	18.5	2.8	13.1	7.4	13.4	6.4	7.6
Green Ext Time (p_c), s	0.0	6.1	0.0	1.3	0.2	3.6	0.1	0.7

Intersection Summary	
HCM 7th Control Delay, s/veh	22.0
HCM 7th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	322	511	441	48	383	329	473	1097	90	199	692	230
Future Volume (veh/h)	322	511	441	48	383	329	473	1097	90	199	692	230
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	339	538	464	51	403	346	498	1155	95	209	728	242
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	2	2	2	3	3	3
Cap, veh/h	348	797	709	215	593	466	758	1167	96	222	906	404
Arrive On Green	0.19	0.22	0.22	0.12	0.16	0.16	0.22	0.35	0.35	0.13	0.26	0.26
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	3456	3325	273	1767	3526	1572
Grp Volume(v), veh/h	339	538	464	51	403	346	498	617	633	209	728	242
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1728	1777	1821	1767	1763	1572
Q Serve(g_s), s	22.3	16.3	0.9	3.1	12.6	7.4	15.7	41.3	41.4	14.0	23.1	10.2
Cycle Q Clear(g_c), s	22.3	16.3	0.9	3.1	12.6	7.4	15.7	41.3	41.4	14.0	23.1	10.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.15	1.00		1.00
Lane Grp Cap(c), veh/h	348	797	709	215	593	466	758	624	639	222	906	404
V/C Ratio(X)	0.97	0.68	0.65	0.24	0.68	0.74	0.66	0.99	0.99	0.94	0.80	0.60
Avail Cap(c_a), veh/h	348	1267	918	215	905	606	758	624	639	222	1061	473
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.0	42.7	26.3	47.8	47.0	16.1	42.6	38.6	38.6	51.9	41.6	15.4
Incr Delay (d2), s/veh	41.2	1.5	1.6	0.2	2.3	4.8	1.7	33.1	33.2	44.3	4.4	2.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	18.6	7.2	10.0	1.3	5.6	4.8	6.7	22.7	23.4	8.9	10.6	3.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	89.2	44.2	28.0	48.0	49.3	20.9	44.3	71.7	71.8	96.2	46.0	17.6
LnGrp LOS	F	D	C	D	D	C	D	E	E	F	D	B
Approach Vol, veh/h		1341			800			1748			1179	
Approach Delay, s/veh		50.0			36.9			63.9			49.1	
Approach LOS		D			D			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	30.2	36.8	27.0	25.7	19.0	48.0	20.2	32.4
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	6.0	* 6
Max Green Setting (Gmax), s	21.6	36.0	23.0	30.0	15.0	42.0	11.0	* 42
Max Q Clear Time (g_c+I1), s	17.7	25.1	24.3	14.6	16.0	43.4	5.1	18.3
Green Ext Time (p_c), s	0.4	5.6	0.0	5.1	0.0	0.0	0.0	8.1

Intersection Summary	
HCM 7th Control Delay, s/veh	52.5
HCM 7th LOS	D

Notes

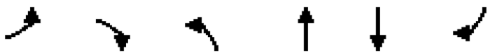
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

APPENDIX F

QUEUING ANALYSIS WORKSHEETS

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	82	134	188	93	289	106	714	53	70	630	56
v/c Ratio	0.36	0.28	0.35	0.37	0.62	0.43	0.48	0.09	0.32	0.45	0.10
Control Delay (s/veh)	42.5	30.1	6.9	41.2	32.6	42.8	26.7	0.3	42.3	27.6	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	42.5	30.1	6.9	41.2	32.6	42.8	26.7	0.3	42.3	27.6	0.4
Queue Length 50th (ft)	41	57	0	46	117	53	114	0	35	102	0
Queue Length 95th (ft)	96	124	54	103	235	115	177	0	85	163	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	348	625	655	393	609	375	2860	952	371	2833	944
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.24	0.21	0.29	0.24	0.47	0.28	0.25	0.06	0.19	0.22	0.06

Intersection Summary



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	177	172	91	720	822	122
v/c Ratio	0.42	0.34	0.18	0.25	0.43	0.18
Control Delay (s/veh)	24.3	6.0	27.0	6.6	15.3	4.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	24.3	6.0	27.0	6.6	15.3	4.2
Queue Length 50th (ft)	59	0	16	39	82	0
Queue Length 95th (ft)	115	42	39	69	128	30
Internal Link Dist (ft)	1383			1272	2582	
Turn Bay Length (ft)	230	230	235			130
Base Capacity (vph)	796	807	857	3247	2689	894
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.22	0.21	0.11	0.22	0.31	0.14

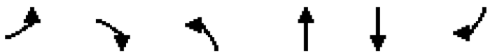
Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	37	346	139	15	288	161	130	176	20	132	240	37
v/c Ratio	0.13	0.29	0.23	0.05	0.59	0.33	0.41	0.42	0.05	0.42	0.57	0.09
Control Delay (s/veh)	37.5	20.3	10.0	37.9	32.1	14.7	38.1	31.2	0.2	38.0	34.2	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	37.5	20.3	10.0	37.9	32.1	14.7	38.1	31.2	0.2	38.0	34.2	0.4
Queue Length 50th (ft)	16	53	13	7	125	27	60	76	0	62	107	0
Queue Length 95th (ft)	55	136	71	29	247	88	139	162	0	140	217	0
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	230		45	220		60	230			260		15
Base Capacity (vph)	554	1834	865	554	944	849	543	926	833	538	917	825
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.07	0.19	0.16	0.03	0.31	0.19	0.24	0.19	0.02	0.25	0.26	0.04

Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	24	127	141	109	308	138	850	140	120	651	47
v/c Ratio	0.13	0.38	0.35	0.48	0.62	0.57	0.52	0.23	0.51	0.40	0.08
Control Delay (s/veh)	41.9	36.1	9.0	44.1	31.6	46.0	25.2	5.6	44.8	24.2	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	41.9	36.1	9.0	44.1	31.6	46.0	25.2	5.6	44.8	24.2	0.3
Queue Length 50th (ft)	11	57	0	50	105	64	120	0	55	89	0
Queue Length 95th (ft)	39	124	45	114	247	140	195	36	123	147	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	313	562	576	357	566	337	2593	877	341	2619	885
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.23	0.24	0.31	0.54	0.41	0.33	0.16	0.35	0.25	0.05

Intersection Summary



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	143	203	209	946	734	107
v/c Ratio	0.39	0.41	0.41	0.31	0.42	0.17
Control Delay (s/veh)	24.8	6.7	27.5	6.5	16.3	4.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	24.8	6.7	27.5	6.5	16.3	4.6
Queue Length 50th (ft)	45	0	36	52	70	0
Queue Length 95th (ft)	98	47	72	88	119	30
Internal Link Dist (ft)	1383			1272	2582	
Turn Bay Length (ft)	230	230	235			130
Base Capacity (vph)	721	765	789	3050	2475	825
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.20	0.27	0.26	0.31	0.30	0.13

Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	46	311	117	6	253	129	136	248	25	72	198	38
v/c Ratio	0.15	0.27	0.20	0.02	0.54	0.28	0.42	0.45	0.05	0.24	0.49	0.09
Control Delay (s/veh)	34.4	19.6	8.5	34.3	30.5	11.9	35.4	28.3	0.2	34.9	31.8	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	34.4	19.6	8.5	34.3	30.5	11.9	35.4	28.3	0.2	34.9	31.8	0.4
Queue Length 50th (ft)	19	45	7	2	105	14	59	105	0	30	82	0
Queue Length 95th (ft)	60	117	53	15	206	62	132	197	0	83	170	0
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	230		45	220		60	230			260		15
Base Capacity (vph)	574	1876	883	574	978	876	563	959	860	557	950	852
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.17	0.13	0.01	0.26	0.15	0.24	0.26	0.03	0.13	0.21	0.04

Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	84	159	228	160	366	154	752	100	91	703	57
v/c Ratio	0.44	0.41	0.45	0.65	0.75	0.64	0.46	0.16	0.46	0.54	0.11
Control Delay (s/veh)	48.0	35.3	7.7	51.5	40.5	51.8	27.5	2.5	48.3	31.1	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	48.0	35.3	7.7	51.5	40.5	51.8	27.5	2.5	48.3	31.1	0.4
Queue Length 50th (ft)	47	78	0	89	176	86	132	0	51	130	0
Queue Length 95th (ft)	100	152	61	169	#373	165	193	17	106	183	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	281	504	594	317	500	302	2324	800	299	2302	794
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.30	0.32	0.38	0.50	0.73	0.51	0.32	0.13	0.30	0.31	0.07

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	207	72	197	107	98	32	125	782	81	24	916	188
v/c Ratio	0.55	0.19	0.41	0.38	0.35	0.09	0.37	0.35	0.11	0.14	0.57	0.31
Control Delay (s/veh)	39.6	33.8	8.1	42.0	42.1	0.5	45.8	20.4	1.6	46.2	28.0	7.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	39.6	33.8	8.1	42.0	42.1	0.5	45.8	20.4	1.6	46.2	28.0	7.9
Queue Length 50th (ft)	104	34	0	54	50	0	34	97	0	13	158	11
Queue Length 95th (ft)	207	83	59	125	117	0	77	199	11	44	243	65
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	230		230	100		100	235		145	250		130
Base Capacity (vph)	568	542	600	477	441	471	359	2403	814	168	2259	792
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.36	0.13	0.33	0.22	0.22	0.07	0.35	0.33	0.10	0.14	0.41	0.24

Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	112	436	288	47	368	227	217	335	39	203	589	155
v/c Ratio	0.56	0.42	0.51	0.27	0.80	0.50	0.80	0.59	0.07	0.77	1.05	0.29
Control Delay (s/veh)	60.6	34.5	20.7	56.0	54.8	25.5	69.4	40.7	0.3	67.7	93.1	16.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	60.6	34.5	20.7	56.0	54.8	25.5	69.4	40.7	0.3	67.7	93.1	16.5
Queue Length 50th (ft)	81	143	91	33	254	83	156	213	0	146	~496	35
Queue Length 95th (ft)	148	193	179	77	392	170	#282	353	0	#249	#807	99
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	235		50	220		60	230			260		15
Base Capacity (vph)	328	1117	595	328	559	539	328	568	547	328	559	539
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.34	0.39	0.48	0.14	0.66	0.42	0.66	0.59	0.07	0.62	1.05	0.29

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	23	158	196	193	354	189	854	221	145	657	43
v/c Ratio	0.14	0.54	0.48	0.71	0.63	0.71	0.54	0.36	0.62	0.44	0.08
Control Delay (s/veh)	44.7	43.4	9.7	53.3	32.6	54.0	27.8	8.9	51.0	27.4	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	44.7	43.4	9.7	53.3	32.6	54.0	27.8	8.9	51.0	27.4	0.3
Queue Length 50th (ft)	12	82	0	100	134	99	146	18	77	113	0
Queue Length 95th (ft)	41	162	60	#229	#343	#233	213	79	160	161	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	282	506	573	321	568	304	2336	822	307	2360	812
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.31	0.34	0.60	0.62	0.62	0.37	0.27	0.47	0.28	0.05

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	211	131	257	153	121	58	251	1047	160	59	800	180
v/c Ratio	0.82	0.40	0.55	0.89	0.37	0.14	0.76	0.54	0.23	0.35	0.52	0.30
Control Delay (s/veh)	62.0	23.8	9.9	78.4	23.3	0.7	43.8	15.9	3.5	30.6	17.2	4.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	62.0	23.8	9.9	78.4	23.3	0.7	43.8	15.9	3.5	30.6	17.2	4.6
Queue Length 50th (ft)	~91	39	9	51	36	0	42	103	0	19	74	0
Queue Length 95th (ft)	#219	80	60	#159	75	0	#105	161	30	52	119	37
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	230		230	100		100	235		145	250		130
Base Capacity (vph)	256	650	700	171	650	670	329	1925	711	171	1775	671
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.82	0.20	0.37	0.89	0.19	0.09	0.76	0.54	0.23	0.35	0.45	0.27

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	199	407	273	33	336	216	296	644	55	146	480	160
v/c Ratio	0.78	0.34	0.44	0.20	0.79	0.50	0.94	1.02	0.09	0.67	0.91	0.31
Control Delay (s/veh)	71.8	31.9	17.2	56.8	57.6	26.7	88.2	81.0	2.0	65.9	64.4	18.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	71.8	31.9	17.2	56.8	57.6	26.7	88.2	81.0	2.0	65.9	64.4	18.0
Queue Length 50th (ft)	150	134	79	24	245	82	230	~530	0	110	361	40
Queue Length 95th (ft)	246	179	159	61	364	163	#452	#936	9	186	#633	106
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	235		50	220		60	230			260		15
Base Capacity (vph)	320	1192	629	320	546	529	314	632	598	311	530	516
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.62	0.34	0.43	0.10	0.62	0.41	0.94	1.02	0.09	0.47	0.91	0.31

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	84	160	228	220	378	154	752	121	93	703	57
v/c Ratio	0.44	0.45	0.47	0.75	0.76	0.65	0.47	0.20	0.48	0.54	0.11
Control Delay (s/veh)	48.6	37.6	8.2	55.5	41.0	52.8	27.8	4.3	48.9	31.3	0.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	48.6	37.6	8.2	55.5	41.0	52.8	27.8	4.3	48.9	31.3	0.5
Queue Length 50th (ft)	47	82	0	123	185	86	133	0	52	130	0
Queue Length 95th (ft)	101	155	62	#275	#399	167	194	31	109	183	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	274	493	586	310	498	295	2272	786	292	2251	779
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.31	0.32	0.39	0.71	0.76	0.52	0.33	0.15	0.32	0.31	0.07

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	214	72	197	107	98	32	125	796	81	24	957	207
v/c Ratio	0.57	0.19	0.41	0.39	0.36	0.09	0.38	0.35	0.10	0.15	0.59	0.33
Control Delay (s/veh)	40.5	34.3	8.1	42.9	43.0	0.5	46.9	20.4	1.5	47.1	28.2	8.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	40.5	34.3	8.1	42.9	43.0	0.5	46.9	20.4	1.5	47.1	28.2	8.4
Queue Length 50th (ft)	111	35	0	56	52	0	35	101	0	13	169	15
Queue Length 95th (ft)	214	83	59	125	117	0	77	202	11	44	256	74
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	230		230	100		100	235		145	250		130
Base Capacity (vph)	557	532	592	468	432	465	352	2380	808	165	2216	784
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.38	0.14	0.33	0.23	0.23	0.07	0.36	0.33	0.10	0.15	0.43	0.26

Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	112	436	288	47	368	239	217	346	39	236	620	155
v/c Ratio	0.56	0.42	0.51	0.27	0.80	0.52	0.80	0.64	0.07	0.83	1.11	0.29
Control Delay (s/veh)	60.6	34.5	20.7	56.0	54.8	26.9	69.4	43.2	0.3	70.5	110.2	16.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	60.6	34.5	20.7	56.0	54.8	26.9	69.4	43.2	0.3	70.5	110.2	16.5
Queue Length 50th (ft)	81	143	91	33	254	91	156	229	0	169	~544	35
Queue Length 95th (ft)	148	193	179	77	392	184	#282	366	0	#321	#863	99
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	235		50	220		60	230			260		15
Base Capacity (vph)	328	1117	595	328	559	539	328	559	539	328	559	539
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.34	0.39	0.48	0.14	0.66	0.44	0.66	0.62	0.07	0.72	1.11	0.29

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	23	163	196	236	363	189	854	292	153	657	43
v/c Ratio	0.15	0.57	0.48	0.77	0.62	0.73	0.55	0.45	0.66	0.44	0.08
Control Delay (s/veh)	45.7	45.2	9.7	56.8	32.4	57.0	28.8	9.2	54.0	28.1	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	45.7	45.2	9.7	56.8	32.4	57.0	28.8	9.2	54.0	28.1	0.3
Queue Length 50th (ft)	12	87	0	129	141	101	150	25	83	114	0
Queue Length 95th (ft)	42	168	60	#309	#358	#239	215	98	170	162	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	270	484	556	307	590	290	2233	826	293	2255	782
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.09	0.34	0.35	0.77	0.62	0.65	0.38	0.35	0.52	0.29	0.05

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	234	131	257	153	121	58	251	1094	160	59	827	194
v/c Ratio	0.92	0.40	0.56	0.89	0.37	0.14	0.77	0.57	0.22	0.35	0.54	0.32
Control Delay (s/veh)	76.6	23.8	10.1	78.9	23.3	0.7	43.9	16.2	3.5	30.7	17.4	4.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	76.6	23.8	10.1	78.9	23.3	0.7	43.9	16.2	3.5	30.7	17.4	4.6
Queue Length 50th (ft)	~108	39	10	51	36	0	42	109	0	19	77	0
Queue Length 95th (ft)	#243	80	61	#159	75	0	#106	170	30	52	124	38
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	230		230	100		100	235		145	250		130
Base Capacity (vph)	255	648	697	171	648	669	328	1929	712	171	1770	679
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.92	0.20	0.37	0.89	0.19	0.09	0.77	0.57	0.22	0.35	0.47	0.29

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	199	407	273	33	336	253	296	677	55	167	500	160
v/c Ratio	0.78	0.34	0.44	0.20	0.79	0.58	0.94	1.09	0.09	0.72	0.94	0.31
Control Delay (s/veh)	71.8	31.9	17.2	56.8	57.6	30.6	88.2	102.9	2.0	68.5	70.5	18.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	71.8	31.9	17.2	56.8	57.6	30.6	88.2	102.9	2.0	68.5	70.5	18.0
Queue Length 50th (ft)	150	134	79	24	245	107	230	~601	0	126	381	40
Queue Length 95th (ft)	246	179	159	61	364	200	#452	#995	9	210	#672	106
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	235		50	220		60	230			260		15
Base Capacity (vph)	320	1192	629	320	546	532	314	620	587	311	530	516
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.62	0.34	0.43	0.10	0.62	0.48	0.94	1.09	0.09	0.54	0.94	0.31

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	87	229	275	564	638	199	808	273	153	941	59
v/c Ratio	0.49	0.67	0.56	2.02	1.33	0.79	0.52	0.42	0.71	0.65	0.11
Control Delay (s/veh)	54.0	48.8	11.1	496.4	194.6	66.0	30.1	8.4	61.2	33.3	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	54.0	48.8	11.1	496.4	194.6	66.0	30.1	8.4	61.2	33.3	0.4
Queue Length 50th (ft)	54	135	12	~567	~537	123	156	21	93	191	0
Queue Length 95th (ft)	111	234	88	#882	#870	#273	211	87	#190	250	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	248	444	569	279	478	267	2050	774	264	2030	717
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.35	0.52	0.48	2.02	1.33	0.75	0.39	0.35	0.58	0.46	0.08

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	473	245	351	259	207	113	287	1445	295	126	956	422
v/c Ratio	1.11	0.62	0.70	0.78	0.70	0.32	1.17	0.86	0.46	0.91	0.54	0.54
Control Delay (s/veh)	118.0	48.6	25.8	61.8	58.5	8.3	158.0	42.2	14.5	109.2	31.6	8.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	118.0	48.6	25.8	61.8	58.5	8.3	158.0	42.2	14.5	109.2	31.6	8.4
Queue Length 50th (ft)	~406	166	101	183	145	0	~132	367	64	94	208	35
Queue Length 95th (ft)	#612	253	212	#298	226	42	#221	430	145	#212	253	122
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	230		230	100		100	235		145	250		130
Base Capacity (vph)	426	403	502	351	324	379	245	1693	645	138	1789	788
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.11	0.61	0.70	0.74	0.64	0.30	1.17	0.85	0.46	0.91	0.53	0.54

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	163	613	552	115	547	350	283	421	55	323	1050	240
v/c Ratio	0.73	0.60	0.93	0.61	1.09	0.71	0.96	0.84	0.11	1.10	2.09	0.49
Control Delay (s/veh)	71.8	41.2	51.9	67.6	109.7	39.4	95.6	59.4	2.2	129.2	523.4	27.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	71.8	41.2	51.9	67.6	109.7	39.4	95.6	59.4	2.2	129.2	523.4	27.3
Queue Length 50th (ft)	129	221	302	91	~497	191	230	321	0	~295	~1342	99
Queue Length 95th (ft)	206	301	#560	154	#758	321	#428	#521	9	#507	#1675	190
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	235		50	220		60	230			260		15
Base Capacity (vph)	294	1022	593	294	502	493	294	502	493	294	502	493
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.55	0.60	0.93	0.39	1.09	0.71	0.96	0.84	0.11	1.10	2.09	0.49

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	24	276	258	572	550	234	966	728	265	712	46
v/c Ratio	0.18	0.80	0.51	2.29	1.03	0.97	0.56	0.92	1.10	0.41	0.07
Control Delay (s/veh)	53.8	60.8	8.7	615.0	83.4	100.4	31.5	33.7	132.8	29.1	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	53.8	60.8	8.7	615.0	83.4	100.4	31.5	33.7	132.8	29.1	0.2
Queue Length 50th (ft)	17	193	0	~692	~469	~178	208	265	~229	144	0
Queue Length 95th (ft)	45	#294	69	#917	#686	#345	256	#530	#401	183	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	224	402	544	250	536	241	1854	827	241	1854	667
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.11	0.69	0.47	2.29	1.03	0.97	0.52	0.88	1.10	0.38	0.07

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	287	123	215	203	187	78	165	888	138	46	1291	463
v/c Ratio	0.75	0.33	0.44	0.65	0.63	0.22	0.64	0.47	0.21	0.33	0.74	0.64
Control Delay (s/veh)	53.6	40.8	8.3	52.6	53.5	3.0	62.2	28.7	6.0	56.5	34.7	15.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	53.6	40.8	8.3	52.6	53.5	3.0	62.2	28.7	6.0	56.5	34.7	15.6
Queue Length 50th (ft)	194	76	0	138	127	0	61	185	2	32	300	101
Queue Length 95th (ft)	294	135	63	218	206	11	#107	240	46	71	366	222
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	230		230	100		100	235		145	250		130
Base Capacity (vph)	445	421	524	374	345	396	258	1884	670	160	1852	758
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.64	0.29	0.41	0.54	0.54	0.20	0.64	0.47	0.21	0.29	0.70	0.61

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	339	538	464	51	403	346	498	1122	95	209	708	242
v/c Ratio	1.14	0.43	0.68	0.32	0.87	0.72	1.71	2.09	0.18	0.83	1.44	0.50
Control Delay (s/veh)	143.0	33.8	27.3	61.8	65.3	39.1	365.5	519.8	8.7	79.9	243.4	28.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	143.0	33.8	27.3	61.8	65.3	39.1	365.5	519.8	8.7	79.9	243.4	28.4
Queue Length 50th (ft)	~338	184	208	41	320	183	~622	~1528	2	171	~817	106
Queue Length 95th (ft)	#529	240	339	85	#474	296	#839	#1799	45	#279	#1055	192
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	235		50	220		60	230			260		15
Base Capacity (vph)	297	1256	682	297	507	511	292	538	522	289	493	486
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.14	0.43	0.68	0.17	0.79	0.68	1.71	2.09	0.18	0.72	1.44	0.50

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	87	230	275	564	649	199	808	273	155	941	59
v/c Ratio	0.49	0.67	0.56	2.02	1.35	0.80	0.52	0.43	0.71	0.65	0.11
Control Delay (s/veh)	54.1	48.8	11.1	497.1	203.6	66.1	30.1	8.4	61.8	33.3	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	54.1	48.8	11.1	497.1	203.6	66.1	30.1	8.4	61.8	33.3	0.4
Queue Length 50th (ft)	54	136	12	~567	~552	123	156	21	95	191	0
Queue Length 95th (ft)	111	235	88	#882	#887	#273	211	87	#195	250	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	247	444	569	279	479	266	2049	774	264	2029	716
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.35	0.52	0.48	2.02	1.35	0.75	0.39	0.35	0.59	0.46	0.08

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	287	130	215	203	206	78	165	888	138	46	1291	463
v/c Ratio	0.76	0.34	0.44	0.65	0.67	0.21	0.64	0.48	0.21	0.34	0.75	0.64
Control Delay (s/veh)	54.0	40.9	8.2	53.0	55.5	2.9	62.7	29.4	6.1	57.5	35.0	15.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	54.0	40.9	8.2	53.0	55.5	2.9	62.7	29.4	6.1	57.5	35.0	15.7
Queue Length 50th (ft)	196	81	0	139	142	0	61	190	2	33	304	103
Queue Length 95th (ft)	294	141	63	218	226	11	#107	240	46	72	366	222
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	230		230	100		100	235		145	250		130
Base Capacity (vph)	442	421	524	371	343	394	257	1849	660	142	1839	755
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.65	0.31	0.41	0.55	0.60	0.20	0.64	0.48	0.21	0.32	0.70	0.61

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	163	613	552	115	547	350	283	432	55	323	1080	240
v/c Ratio	0.73	0.60	0.93	0.61	1.09	0.71	0.96	0.86	0.11	1.10	2.15	0.49
Control Delay (s/veh)	71.8	41.2	51.9	67.6	109.7	39.4	95.6	61.6	2.2	129.2	549.5	27.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	71.8	41.2	51.9	67.6	109.7	39.4	95.6	61.6	2.2	129.2	549.5	27.3
Queue Length 50th (ft)	129	221	302	91	~497	191	230	333	0	~295	~1392	99
Queue Length 95th (ft)	206	301	#560	154	#758	321	#428	#542	9	#507	#1727	190
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	235		50	220		60	230			260		15
Base Capacity (vph)	294	1022	593	294	502	493	294	502	493	294	502	493
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.55	0.60	0.93	0.39	1.09	0.71	0.96	0.86	0.11	1.10	2.15	0.49

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	24	282	258	572	559	234	966	728	274	712	46
v/c Ratio	0.18	0.81	0.51	2.25	1.02	0.98	0.56	0.92	1.13	0.41	0.07
Control Delay (s/veh)	53.9	61.4	8.6	601.5	81.3	101.6	31.6	34.5	142.4	29.2	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	53.9	61.4	8.6	601.5	81.3	101.6	31.6	34.5	142.4	29.2	0.2
Queue Length 50th (ft)	17	197	0	~693	~474	~183	209	272	~243	145	0
Queue Length 95th (ft)	45	#313	69	#913	#695	#345	256	#535	#413	183	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	223	400	542	254	548	240	1846	822	242	1864	671
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.11	0.71	0.48	2.25	1.02	0.98	0.52	0.89	1.13	0.38	0.07

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	473	268	351	259	221	113	287	1445	295	126	956	422
v/c Ratio	1.12	0.67	0.70	0.79	0.73	0.31	1.18	0.86	0.46	0.91	0.54	0.54
Control Delay (s/veh)	119.5	50.7	25.6	62.0	60.6	8.2	159.8	42.5	14.6	109.9	31.7	8.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	119.5	50.7	25.6	62.0	60.6	8.2	159.8	42.5	14.6	109.9	31.7	8.4
Queue Length 50th (ft)	~406	184	101	183	156	0	~132	367	64	94	208	35
Queue Length 95th (ft)	#612	278	212	#298	#244	42	#221	430	145	#212	253	122
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	230		230	100		100	235		145	250		130
Base Capacity (vph)	424	402	502	349	322	379	244	1687	643	138	1782	787
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.12	0.67	0.70	0.74	0.69	0.30	1.18	0.86	0.46	0.91	0.54	0.54

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	339	538	464	51	403	346	498	1155	95	209	728	242
v/c Ratio	1.14	0.43	0.68	0.32	0.87	0.72	1.71	2.15	0.18	0.83	1.48	0.50
Control Delay (s/veh)	143.0	33.8	27.3	61.8	65.3	39.1	365.5	546.6	8.7	79.9	260.2	28.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	143.0	33.8	27.3	61.8	65.3	39.1	365.5	546.6	8.7	79.9	260.2	28.4
Queue Length 50th (ft)	~338	184	208	41	320	183	~622	~1586	2	171	~852	106
Queue Length 95th (ft)	#529	240	339	85	#474	296	#839	#1856	45	#279	#1094	192
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	235		50	220		60	230			260		15
Base Capacity (vph)	297	1256	682	297	507	511	292	538	522	289	493	486
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.14	0.43	0.68	0.17	0.79	0.68	1.71	2.15	0.18	0.72	1.48	0.50

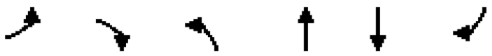
Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	82	134	188	93	289	106	714	53	70	630	56
v/c Ratio	0.36	0.28	0.35	0.37	0.62	0.43	0.48	0.09	0.32	0.45	0.10
Control Delay (s/veh)	42.5	30.1	6.9	41.2	32.6	42.8	26.7	0.3	42.3	27.6	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	42.5	30.1	6.9	41.2	32.6	42.8	26.7	0.3	42.3	27.6	0.4
Queue Length 50th (ft)	41	57	0	46	117	53	114	0	35	102	0
Queue Length 95th (ft)	96	124	54	103	235	115	177	0	85	163	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	355		300		455	415		205
Base Capacity (vph)	348	625	655	393	609	375	2860	952	371	2833	944
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.24	0.21	0.29	0.24	0.47	0.28	0.25	0.06	0.19	0.22	0.06

Intersection Summary



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	177	172	91	720	822	122
v/c Ratio	0.42	0.34	0.18	0.25	0.43	0.18
Control Delay (s/veh)	24.3	6.0	27.0	6.6	15.3	4.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	24.3	6.0	27.0	6.6	15.3	4.2
Queue Length 50th (ft)	59	0	16	39	82	0
Queue Length 95th (ft)	115	42	39	69	128	30
Internal Link Dist (ft)	1383			1272	2582	
Turn Bay Length (ft)	250	230	300			225
Base Capacity (vph)	796	807	857	3247	2689	894
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.22	0.21	0.11	0.22	0.31	0.14

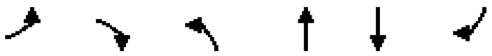
Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	37	346	139	15	288	161	130	176	20	132	240	37
v/c Ratio	0.13	0.30	0.24	0.05	0.60	0.30	0.42	0.42	0.05	0.42	0.57	0.09
Control Delay (s/veh)	38.1	20.3	10.1	38.5	32.5	6.5	38.5	31.5	0.2	38.4	34.6	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	38.1	20.3	10.1	38.5	32.5	6.5	38.5	31.5	0.2	38.4	34.6	0.4
Queue Length 50th (ft)	16	53	13	7	126	0	61	76	0	62	108	0
Queue Length 95th (ft)	56	137	71	30	249	48	141	163	0	142	219	0
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	500		45	220		175	230			425		150
Base Capacity (vph)	534	1778	840	534	911	856	534	911	821	534	911	821
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.07	0.19	0.17	0.03	0.32	0.19	0.24	0.19	0.02	0.25	0.26	0.05

Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	24	127	141	109	308	138	850	140	120	651	47
v/c Ratio	0.13	0.38	0.35	0.48	0.62	0.57	0.52	0.23	0.51	0.40	0.08
Control Delay (s/veh)	41.9	36.1	9.0	44.1	31.6	46.0	25.2	5.6	44.8	24.2	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	41.9	36.1	9.0	44.1	31.6	46.0	25.2	5.6	44.8	24.2	0.3
Queue Length 50th (ft)	11	57	0	50	105	64	120	0	55	89	0
Queue Length 95th (ft)	39	124	45	114	247	140	195	36	123	147	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	355		300		455	415		205
Base Capacity (vph)	313	562	576	357	566	337	2593	877	341	2619	885
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.23	0.24	0.31	0.54	0.41	0.33	0.16	0.35	0.25	0.05

Intersection Summary



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	143	203	209	946	734	107
v/c Ratio	0.38	0.41	0.41	0.31	0.41	0.17
Control Delay (s/veh)	24.5	6.5	27.3	6.4	16.1	4.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	24.5	6.5	27.3	6.4	16.1	4.6
Queue Length 50th (ft)	45	0	37	52	69	0
Queue Length 95th (ft)	96	47	71	87	117	29
Internal Link Dist (ft)	1383			1272	2582	
Turn Bay Length (ft)	300	230	235			225
Base Capacity (vph)	738	780	799	3080	2559	850
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.19	0.26	0.26	0.31	0.29	0.13

Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	46	311	117	6	253	129	136	248	25	72	198	38
v/c Ratio	0.15	0.27	0.20	0.02	0.54	0.26	0.42	0.45	0.05	0.24	0.49	0.09
Control Delay (s/veh)	34.4	19.6	8.5	34.3	30.5	6.9	35.4	28.3	0.2	34.9	31.8	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	34.4	19.6	8.5	34.3	30.5	6.9	35.4	28.3	0.2	34.9	31.8	0.4
Queue Length 50th (ft)	19	45	7	2	105	0	59	105	0	30	82	0
Queue Length 95th (ft)	60	117	53	15	206	43	132	197	0	83	170	0
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	500		45	220		175	230			260		150
Base Capacity (vph)	574	1876	883	574	978	894	563	959	860	557	950	852
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.17	0.13	0.01	0.26	0.14	0.24	0.26	0.03	0.13	0.21	0.04

Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	84	160	228	220	378	154	752	121	93	703	57
v/c Ratio	0.44	0.45	0.47	0.75	0.76	0.65	0.47	0.20	0.48	0.54	0.11
Control Delay (s/veh)	48.6	37.6	8.2	55.5	41.0	52.8	27.8	4.3	48.9	31.3	0.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	48.6	37.6	8.2	55.5	41.0	52.8	27.8	4.3	48.9	31.3	0.5
Queue Length 50th (ft)	47	82	0	123	185	86	133	0	52	130	0
Queue Length 95th (ft)	101	155	62	#275	#399	167	194	31	109	183	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	355		300		455	415		205
Base Capacity (vph)	274	493	586	310	498	295	2272	786	292	2251	779
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.31	0.32	0.39	0.71	0.76	0.52	0.33	0.15	0.32	0.31	0.07

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	214	72	197	107	98	32	125	796	81	24	957	207
v/c Ratio	0.57	0.19	0.41	0.39	0.36	0.09	0.38	0.35	0.10	0.15	0.59	0.32
Control Delay (s/veh)	40.5	34.3	8.1	42.9	43.0	0.5	46.9	20.4	1.5	47.1	28.2	5.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	40.5	34.3	8.1	42.9	43.0	0.5	46.9	20.4	1.5	47.1	28.2	5.3
Queue Length 50th (ft)	111	35	0	56	52	0	35	101	0	13	169	0
Queue Length 95th (ft)	214	83	59	125	117	0	77	202	11	44	256	51
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	250		230	300		100	235		145	250		225
Base Capacity (vph)	557	532	592	468	432	465	352	2380	808	165	2216	805
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.38	0.14	0.33	0.23	0.23	0.07	0.36	0.33	0.10	0.15	0.43	0.26

Intersection Summary

Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	353	581	125	304	194	298
v/c Ratio	0.54	0.87	0.57	0.67	0.70	0.50
Control Delay (s/veh)	16.2	33.3	38.7	27.6	41.5	20.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	16.2	33.3	38.7	27.6	41.5	20.9
Queue Length 50th (ft)	76	166	44	98	68	92
Queue Length 95th (ft)	164	#379	#114	169	#170	158
Internal Link Dist (ft)	517	746		2579		1236
Turn Bay Length (ft)			300		350	
Base Capacity (vph)	711	718	229	624	290	689
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.50	0.81	0.55	0.49	0.67	0.43

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	185	93	66	479	2	650
v/c Ratio	0.49	0.25	0.32	0.41	0.01	0.62
Control Delay (s/veh)	17.5	18.4	27.0	8.7	23.0	16.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	17.5	18.4	27.0	8.7	23.0	16.2
Queue Length 50th (ft)	35	24	19	55	1	153
Queue Length 95th (ft)	82	55	54	205	6	#370
Internal Link Dist (ft)	5362	554		2572		2579
Turn Bay Length (ft)			175		100	
Base Capacity (vph)	722	761	209	1226	204	1087
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.26	0.12	0.32	0.39	0.01	0.60

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	112	436	288	47	368	239	217	346	39	236	620	155
v/c Ratio	0.56	0.42	0.52	0.27	0.80	0.45	0.80	0.64	0.07	0.83	1.11	0.29
Control Delay (s/veh)	60.6	34.5	21.9	56.0	54.8	11.3	69.4	43.2	0.3	70.5	110.2	16.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	60.6	34.5	21.9	56.0	54.8	11.3	69.4	43.2	0.3	70.5	110.2	16.5
Queue Length 50th (ft)	81	143	97	33	254	25	156	229	0	169	~544	35
Queue Length 95th (ft)	148	193	187	77	392	99	#282	366	0	#321	#863	99
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	500		45	220		175	230			425		150
Base Capacity (vph)	328	1117	589	328	559	611	328	559	539	328	559	539
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.34	0.39	0.49	0.14	0.66	0.39	0.66	0.62	0.07	0.72	1.11	0.29

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	23	163	196	236	363	189	854	292	153	657	43
v/c Ratio	0.15	0.57	0.48	0.77	0.62	0.73	0.55	0.43	0.66	0.44	0.08
Control Delay (s/veh)	45.7	45.2	9.7	56.8	32.4	57.0	28.8	5.3	54.0	28.1	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	45.7	45.2	9.7	56.8	32.4	57.0	28.8	5.3	54.0	28.1	0.3
Queue Length 50th (ft)	12	87	0	129	141	101	150	0	83	114	0
Queue Length 95th (ft)	42	168	60	#309	#358	#239	215	59	170	162	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	355		300		455	415		205
Base Capacity (vph)	270	484	556	307	590	290	2233	860	293	2255	782
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.09	0.34	0.35	0.77	0.62	0.65	0.38	0.34	0.52	0.29	0.05

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	234	131	257	153	121	58	251	1094	160	59	827	194
v/c Ratio	0.92	0.40	0.56	0.89	0.37	0.14	0.77	0.57	0.22	0.35	0.54	0.32
Control Delay (s/veh)	76.6	23.8	10.1	78.9	23.3	0.7	43.9	16.2	3.5	30.7	17.4	4.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	76.6	23.8	10.1	78.9	23.3	0.7	43.9	16.2	3.5	30.7	17.4	4.6
Queue Length 50th (ft)	~108	39	10	51	36	0	42	109	0	19	77	0
Queue Length 95th (ft)	#243	80	61	#159	75	0	#106	170	30	52	124	38
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	250		230	300		100	235		145	250		225
Base Capacity (vph)	255	648	697	171	648	669	328	1929	712	171	1770	679
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.92	0.20	0.37	0.89	0.19	0.09	0.77	0.57	0.22	0.35	0.47	0.29

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	413	526	185	410	209	249
v/c Ratio	0.70	0.87	0.68	0.78	0.72	0.46
Control Delay (s/veh)	24.5	36.7	40.6	31.0	41.7	20.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	24.5	36.7	40.6	31.0	41.7	20.2
Queue Length 50th (ft)	123	171	68	138	77	74
Queue Length 95th (ft)	#230	#352	#157	#235	#174	132
Internal Link Dist (ft)	517	456		2579		1236
Turn Bay Length (ft)			300		350	
Base Capacity (vph)	639	647	290	642	311	663
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.65	0.81	0.64	0.64	0.67	0.38

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	239	119	93	657	1	499
v/c Ratio	0.58	0.29	0.51	0.64	0.01	0.63
Control Delay (s/veh)	20.0	18.7	37.8	14.1	26.0	16.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	20.0	18.7	37.8	14.1	26.0	16.6
Queue Length 50th (ft)	46	27	25	99	0	110
Queue Length 95th (ft)	119	73	#103	#402	4	238
Internal Link Dist (ft)	5362	554		2572		2579
Turn Bay Length (ft)			175		100	
Base Capacity (vph)	655	676	184	1110	182	1057
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.36	0.18	0.51	0.59	0.01	0.47

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	199	407	273	33	336	253	296	732	167	500	160
v/c Ratio	0.87	0.37	0.46	0.20	0.82	0.49	0.90	0.59	0.72	0.90	0.29
Control Delay (s/veh)	87.9	36.3	21.6	58.3	62.6	11.9	79.1	34.7	69.5	61.8	10.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	87.9	36.3	21.6	58.3	62.6	11.9	79.1	34.7	69.5	61.8	10.7
Queue Length 50th (ft)	167	149	96	26	266	24	245	254	137	397	20
Queue Length 95th (ft)	#312	199	185	61	#397	101	#416	339	210	#597	74
Internal Link Dist (ft)		1251			861			1224		2572	
Turn Bay Length (ft)	500		45	220		175	230		425		150
Base Capacity (vph)	241	1117	593	166	476	567	355	1323	308	617	608
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.83	0.36	0.46	0.20	0.71	0.45	0.83	0.55	0.54	0.81	0.26

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	87	230	275	564	302	347	199	808	273	155	941	59
v/c Ratio	0.59	0.71	0.58	0.87	0.55	0.51	0.85	0.54	0.28	0.74	0.66	0.10
Control Delay (s/veh)	64.6	52.8	12.3	57.3	36.7	8.6	76.5	31.9	3.6	65.9	34.5	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	64.6	52.8	12.3	57.3	36.7	8.6	76.5	31.9	3.6	65.9	34.5	0.4
Queue Length 50th (ft)	55	141	16	184	172	20	128	164	12	96	195	0
Queue Length 95th (ft)	#137	241	96	#336	286	103	#299	219	55	#212	257	0
Internal Link Dist (ft)		2009			2713			2582			1915	
Turn Bay Length (ft)	230		240	355		150	300		455	415		205
Base Capacity (vph)	153	431	555	645	606	721	234	1850	964	242	1863	697
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.57	0.53	0.50	0.87	0.50	0.48	0.85	0.44	0.28	0.64	0.51	0.08

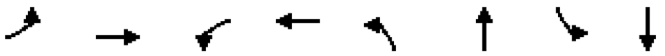
Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	16	267	187	65	541	288	193	327	36	258	586
v/c Ratio	0.16	0.42	0.28	0.21	0.84	0.42	0.61	0.51	0.06	0.50	0.85
Control Delay (s/veh)	27.1	25.4	4.8	24.0	40.7	9.3	22.8	26.4	2.1	14.5	38.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	27.1	25.4	4.8	24.0	40.7	9.3	22.8	26.4	2.1	14.5	38.3
Queue Length 50th (ft)	6	118	0	26	287	32	55	150	0	77	309
Queue Length 95th (ft)	25	198	45	62	#480	99	#114	244	9	128	#467
Internal Link Dist (ft)		517			746			2579			1236
Turn Bay Length (ft)	100		125	100		150	300			350	
Base Capacity (vph)	123	796	783	396	812	808	334	806	721	584	900
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.13	0.34	0.24	0.16	0.67	0.36	0.58	0.41	0.05	0.44	0.65

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	92	272	24	161	104	599	3	1228
v/c Ratio	0.65	0.60	0.18	0.48	0.63	0.38	0.02	0.83
Control Delay (s/veh)	59.5	26.5	38.3	32.5	54.2	14.9	35.3	25.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	59.5	26.5	38.3	32.5	54.2	14.9	35.3	25.5
Queue Length 50th (ft)	42	80	11	68	47	88	1	242
Queue Length 95th (ft)	#124	176	35	123	#131	148	10	#418
Internal Link Dist (ft)		5362		554		2572		2579
Turn Bay Length (ft)	175		100		175		100	
Base Capacity (vph)	141	523	131	486	165	1702	127	1613
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.65	0.52	0.18	0.33	0.63	0.35	0.02	0.76

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	163	613	552	115	547	350	283	487	323	1080	240
v/c Ratio	0.78	0.74	0.78	0.65	0.72	0.42	0.66	0.51	0.87	0.85	0.37
Control Delay (s/veh)	76.3	47.7	33.7	71.3	49.1	12.5	58.1	38.1	68.0	42.4	15.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	76.3	47.7	33.7	71.3	49.1	12.5	58.1	38.1	68.0	42.4	15.0
Queue Length 50th (ft)	124	234	320	88	212	94	110	164	240	390	58
Queue Length 95th (ft)	#255	314	469	#186	286	174	163	234	#412	539	138
Internal Link Dist (ft)		1251			861			1224		2572	
Turn Bay Length (ft)	500		45	220		175	230		425		150
Base Capacity (vph)	229	1009	763	183	917	890	563	1089	443	1407	705
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.71	0.61	0.72	0.63	0.60	0.39	0.50	0.45	0.73	0.77	0.34

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queuing and Blocking Report

Intersection: 9: Project Driveway 3 & Behymer Avenue

Movement	WB	NB
Directions Served	L	R
Maximum Queue (ft)	28	103
Average Queue (ft)	3	22
95th Queue (ft)	17	60
Link Distance (ft)		399
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	100	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	24	282	258	572	277	282	234	966	728	274	712	46
v/c Ratio	0.18	0.79	0.50	0.97	0.41	0.37	0.68	0.67	0.90	1.07	0.59	0.09
Control Delay (s/veh)	51.3	56.5	8.4	74.4	30.2	5.3	51.9	35.7	27.9	119.4	37.9	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	51.3	56.5	8.4	74.4	30.2	5.3	51.9	35.7	27.9	119.4	37.9	0.3
Queue Length 50th (ft)	15	178	0	198	124	0	147	211	191	~205	156	0
Queue Length 95th (ft)	45	#308	68	#352	260	64	#264	263	#453	#410	205	0
Internal Link Dist (ft)		2009			2713			2582			1915	
Turn Bay Length (ft)	230		240	355		150	300		455	415		205
Base Capacity (vph)	137	424	559	591	676	756	342	1858	810	257	1978	731
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.18	0.67	0.46	0.97	0.41	0.37	0.68	0.52	0.90	1.07	0.36	0.06

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	473	268	351	259	221	113	287	1445	295	126	956	422
v/c Ratio	0.95	0.60	0.64	0.82	0.87	0.30	0.80	0.92	0.48	0.85	0.63	0.55
Control Delay (s/veh)	71.2	46.3	20.0	66.3	81.5	2.3	67.2	48.4	14.5	94.4	37.2	5.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	71.2	46.3	20.0	66.3	81.5	2.3	67.2	48.4	14.5	94.4	37.2	5.9
Queue Length 50th (ft)	344	180	80	185	163	0	108	377	60	93	224	0
Queue Length 95th (ft)	#551	271	186	#312	#302	3	#168	#467	142	#200	273	75
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	250		230	300		100	235		145	250		225
Base Capacity (vph)	498	443	550	329	253	376	374	1579	620	152	1529	773
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.95	0.60	0.64	0.79	0.87	0.30	0.77	0.92	0.48	0.83	0.63	0.55

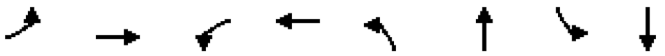
Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	18	534	194	38	543	240	280	675	69	243	349
v/c Ratio	0.27	0.91	0.34	0.57	0.91	0.40	0.50	0.92	0.10	0.84	0.79
Control Delay (s/veh)	43.3	58.4	17.4	68.6	57.8	15.6	37.0	51.2	8.1	72.7	53.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	43.3	58.4	17.4	68.6	57.8	15.6	37.0	51.2	8.1	72.7	53.0
Queue Length 50th (ft)	10	393	55	24	399	58	171	482	6	185	255
Queue Length 95th (ft)	34	#595	118	#81	#602	129	286	#712	35	#327	332
Internal Link Dist (ft)		517			624			2579			1236
Turn Bay Length (ft)	100		125	100		150	300			350	
Base Capacity (vph)	73	653	618	75	666	656	566	823	731	311	644
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.25	0.82	0.31	0.51	0.82	0.37	0.49	0.82	0.09	0.78	0.54

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	136	345	24	191	169	1177	4	765
v/c Ratio	0.65	0.59	0.18	0.56	0.65	0.69	0.03	0.75
Control Delay (s/veh)	49.9	24.1	38.3	33.5	43.7	18.8	35.5	28.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	49.9	24.1	38.3	33.5	43.7	18.8	35.5	28.0
Queue Length 50th (ft)	60	103	10	79	72	184	2	154
Queue Length 95th (ft)	#153	224	35	144	#162	#404	11	237
Internal Link Dist (ft)		5362		554		2572		2579
Turn Bay Length (ft)	175		100		175		100	
Base Capacity (vph)	217	601	130	483	293	1753	126	1203
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.63	0.57	0.18	0.40	0.58	0.67	0.03	0.64

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	339	538	464	51	403	346	498	1250	209	728	242
v/c Ratio	0.98	0.61	0.53	0.20	0.67	0.64	0.68	1.02	0.95	0.79	0.45
Control Delay (s/veh)	92.9	44.9	18.6	48.3	52.8	22.5	50.5	68.7	103.2	48.1	14.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	92.9	44.9	18.6	48.3	52.8	22.5	50.5	68.7	103.2	48.1	14.2
Queue Length 50th (ft)	263	207	188	35	155	114	186	~518	163	272	43
Queue Length 95th (ft)	#480	263	301	77	210	175	#291	#721	#332	349	117
Internal Link Dist (ft)		1251			861			1224		2572	
Turn Bay Length (ft)	500		45	220		175	230		425		150
Base Capacity (vph)	346	1264	881	250	902	538	731	1230	219	1052	588
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.98	0.43	0.53	0.20	0.45	0.64	0.68	1.02	0.95	0.69	0.41

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queuing and Blocking Report

Intersection: 9: Project Driveway 3 & Behymer Avenue

Movement	WB	NB
Directions Served	L	R
Maximum Queue (ft)	51	32
Average Queue (ft)	23	9
95th Queue (ft)	44	30
Link Distance (ft)		399
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	100	
Storage Blk Time (%)		
Queuing Penalty (veh)		

TRANSPORTATION IMPACT ANALYSIS

DE YOUNG PROPERTIES PEACH AND BEHYMER PROJECT

CLOVIS, CALIFORNIA

LSA

October 2024

TRANSPORTATION IMPACT ANALYSIS

DE YOUNG PROPERTIES PEACH AND BEHYMER PROJECT

CLOVIS, CALIFORNIA

Prepared for:

City of Clovis
1033 Fifth Street
Clovis, California 93612

Prepared by:

LSA
1500 Iowa Avenue, Suite 200
Riverside, California 92507
951.781.9310

Project No. 20231181

October 2024

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APPENDICES

FIGURES

TABLES

LIST OF ABBREVIATIONS AND ACRONYMS

ABM	Activity Based Model
ADA	Americans with Disabilities Act
ATP	Active Transportation Plan
Caltrans	California Department of Transportation
CEQA	California Environmental Quality Act
City	City of Clovis
CUSD	Clovis Unified School District
FAX	Fresno Area Express
Fresno COG	Fresno Council of Governments
FTIP	Federal Transportation Improvement Program
HCM	*Highway Capacity Manual*
HCM 7	*Highway Capacity Manual 7th Edition*
HDM	*Highway Design Manual*
HQTA	High-Quality Transit Area
ITE	Institute of Transportation Engineers
LOS	level of service
LTA	Local Transportation Analysis
mph	miles per hour
NCHRP	National Cooperative Highway Research Program
project	De Young Properties Peach and Behymer Project
RTP	Regional Transportation Plan
STIP	State Transportation Improvement Program
TAZ	traffic analysis zone
TIA	Traffic Impact Analysis
TIA Guidelines	Transportation Impact Analysis Guidelines
TIZ	Traffic Impact Zone
TWLTL	two-way-left-turn lane
VMT	vehicle miles traveled

1.0 INTRODUCTION

This Transportation Impact Analysis (TIA) has been prepared to assess the potential circulation impacts associated with the proposed De Young Properties Peach and Behymer Project (project) within Fresno County (County) and proposed to be annexed in the City of Clovis (City). The approximately 37-acre project site is located at the southwest corner of Minnewawa Avenue and Behymer Avenue on parcels 556-01-028 and 556-01-029. The project site is currently occupied by one residential unit and agricultural uses. Figure 1-1 illustrates the regional and project location. (Figures and tables are provided at the end of each chapter.)

This report has been prepared based on the City of Clovis (City) *Transportation Impact Analysis Guidelines* (TIA Guidelines), dated September 15, 2022.

While level of service (LOS) analysis is no longer a determinant of California Environmental Quality Act (CEQA) impacts, consistency with the City's General Plan goals and policies is still required. Therefore, this TIA includes a Vehicle Miles Traveled (VMT) Analysis for a CEQA Transportation Impact evaluation, and a Local Transportation Analysis (LTA) to satisfy the City's General Plan transportation goals and policies. The scope of work for this TIA, including scope for the CEQA VMT Analysis and LTA with trip generation, trip distribution, study area, and analysis methodologies, has been approved by City staff via the Scoping Agreement process. A copy of the Scoping Agreement is included as Appendix A.

1.1 PROJECT DESCRIPTION

The proposed project is located within City's sphere of influence (SOI) and within the northwest urban center growth area. The project is proposing to annex approximately 37 acres from Fresno County into the City and includes the development of 266 single family dwelling units and 32,974 square-feet (sf) of park space. The project is consistent with the City's General Plan. For purposes of this TIA, the entire buildout condition of this project has been considered under all 'plus project' conditions. It is anticipated that the project buildout will occur in year 2028. Figure 1-2 illustrates the conceptual site plan for the project.

As illustrated in Figure 1-2, access to the project will be provided by four driveways:

- Project Driveway 1: This driveway will be located along Peach Avenue and will be a full-access driveway.
- Project Driveway 2: This driveway will be located along Behymer Avenue and will be a right in-right-out (RIRO) only driveway.
- Project Driveway 3: This driveway will be located along Behymer Avenue and will be a right in-right-out-left-in driveway. Left-out access will be restricted.
- Project Driveway 4: This driveway will be located along Behymer Avenue and will be a RIRO only driveway.

It should be noted that the project is also anticipated to have connections to adjacent future residential development located immediately south of the project site.

1.2 CEQA VEHICLE MILES TRAVELED ANALYSIS

As per the City's TIA Guidelines, the project cannot be considered small because it exceeds 53 dwelling units (City's threshold for screening out single-family home projects from a VMT analysis). Therefore, a detailed VMT analysis has been conducted for the project. For purposes of this analysis, the project-generated VMT per capita has been calculated using the Fresno Council of Governments (Fresno COG) Activity Based Model (ABM). As per the City's TIA Guidelines, a significant project-generated VMT impact would occur if the project's VMT per capita exceeds a level of 13 percent below the existing County average VMT per capita provided in the guidelines. The detailed VMT analysis, including the screening criteria evaluation, VMT analysis methodology, results, and appropriate mitigation measures for the proposed project are discussed in Chapter 2.0.

1.3 LOCAL TRANSPORTATION ANALYSIS STUDY AREA

The LTA for the project examines traffic operations in the vicinity of the proposed project under the following five scenarios:

- Existing Conditions;
- Existing Plus Project Conditions;
- Near-Term Plus Project Conditions;
- Cumulative Without Project Conditions; and
- Cumulative Plus Project Conditions.

Traffic conditions at study intersections were examined for weekday a.m. and p.m. peak-hour conditions. The a.m. peak hour is defined as the 1 hour of highest traffic volumes occurring between 7:00 a.m. and 9:00 a.m. The p.m. peak hour is the 1 hour of highest traffic volumes occurring between 4:00 p.m. and 6:00 p.m. Additionally, since the project is estimated to be completed in 2028, the Near-Term condition was evaluated for the year 2028.

As per the City's TIA Guidelines, the extent of the study area should include the following:

- Pedestrian, bicycle, and transit facilities within 0.5 mile from the project site boundary
- All intersections of major streets that would provide direct access to the project
- All signalized intersections within 0.5 mile of the project site boundary where the project would add 50 or more peak-hour trips, and signalized intersections beyond 0.5 mile where the project would add 100 or more peak-hour trips
- All unsignalized intersections within a 0.5 mile of the project site boundary where the project would add more than 50 peak-hour trips

Based on the aforementioned criteria and as per discussion with the City and adjacent jurisdictions during the scoping agreement process, the following intersections have been included in the LTA.

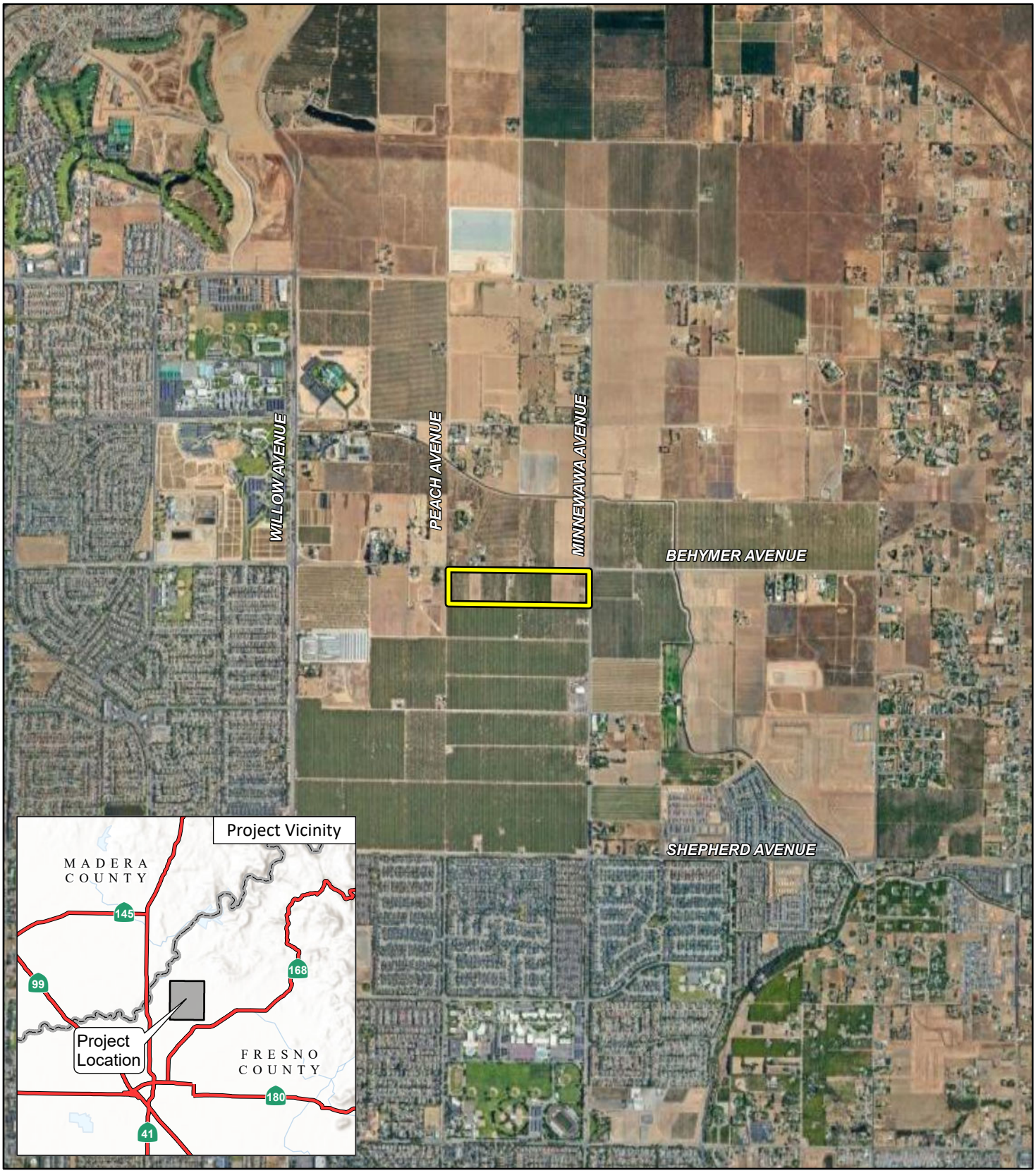
1.3.1 Study Intersections

Per the Scoping Agreement (Appendix A), intersections analyzed in the LTA and their jurisdictions are as follows:

1. Willow Avenue/Behymer Avenue (City of Clovis/City of Fresno);
2. Willow Avenue/Perrin Avenue (City of Clovis/City of Fresno);
3. Peach Avenue/Behymer Avenue (City of Clovis);
4. Minnewawa Avenue/Behymer Avenue (City of Clovis);
5. Minnewawa Avenue/Perrin Road (City of Clovis);
6. Minnewawa Avenue/Shepherd Avenue (City of Clovis);
7. Peach Avenue/Project Driveway 1 (City of Clovis);
8. Project Driveway 2/Behymer Avenue (City of Clovis);
9. Project Driveway 3/Behymer Avenue (City of Clovis); and
10. Project Driveway 4/Behymer Avenue (City of Clovis).

Figure 1-3 illustrates the study area intersections.

1.4 LIST OF CHAPTER 1.0 FIGURES



LSA

LEGEND

Project Location

FIGURE 1-1

N

0 1200 2400

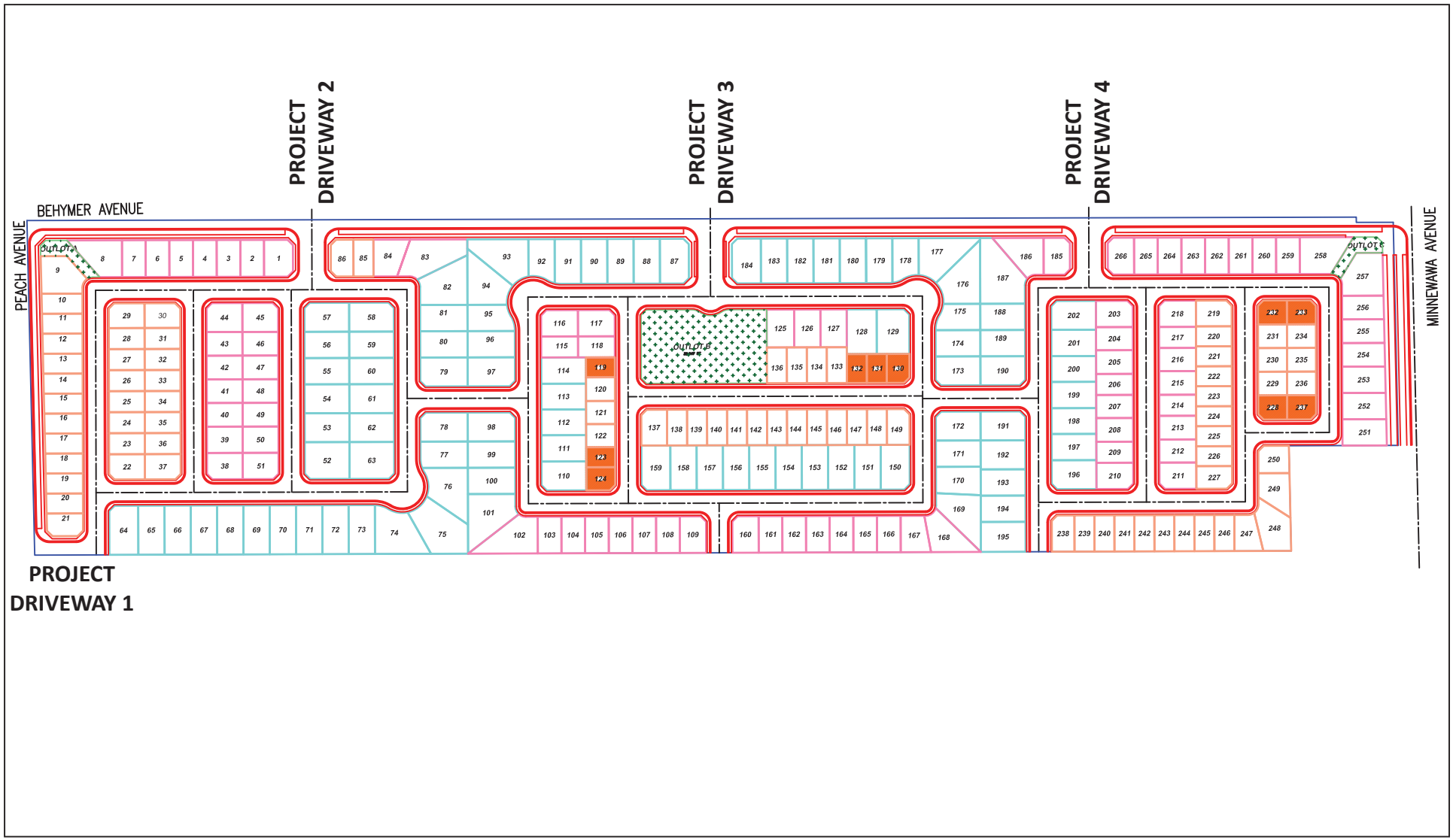
FEET

De Young Properties Peach and Behymer
Transportation Impact Analysis

Regional and Project Location

SOURCE: ESRI Streetmap, 2021; Google Earth, 2022.

P:\20231181 De Young Annexation\GIS\ArcGIS Pro\De Young Properties Peach and Behymer.aprx (6/18/2024)



LSA

LEGEND

38' X 55' -TYPICAL	10 LOTS	
38' X 68'- TYPICAL	79 LOTS	
45' X 70'- TYPICAL	82 LOTS	
50' X 85'- TYPICAL	95 LOTS	
266 TOTAL SFR LOTS		PARK

N

0 150 300

FEET

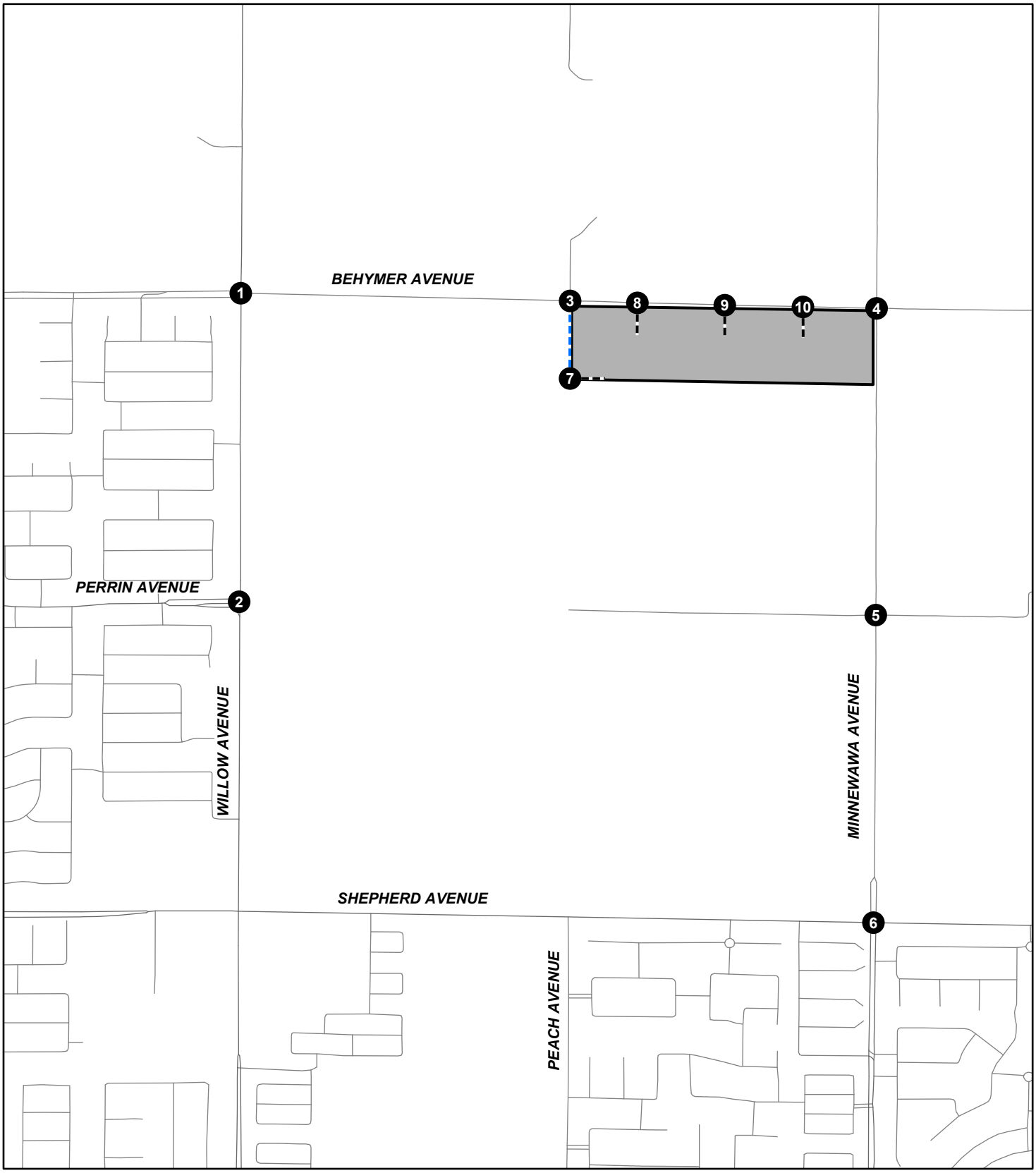
FIGURE 1-2

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Conceptual Site Plan

SOURCE: De Young Properties, February 2024.

P:\20231181 De Young Anexation\GIS\Report\Site Plan (4/05/2024)



LSA

LEGEND

- Project Location
- Study Intersections
- Project Driveway
- Future Roadway

0 600 1200
FEET

FIGURE 1-3

De Young Properties Peach and Behymer
Transportation Impact Analysis
Study Intersections

2.0 VEHICLE MILES TRAVELED ANALYSIS

On December 28, 2018, the California Office of Administrative Law cleared the revised CEQA Guidelines for use. Among the changes to the CEQA Guidelines was the removal of vehicle delay and LOS from consideration under CEQA. With the adopted CEQA Guidelines, transportation impacts are to be evaluated based on a project's effect on VMT.

The City's TIA Guidelines includes screening criteria, VMT analysis methodology, VMT impact thresholds, and VMT mitigation measures. Therefore, the City's TIA Guidelines were used in the evaluation of the project's VMT analysis.

2.1 METHODOLOGY

The TIA Guidelines provide multiple project types and thresholds for land use projects. The project was compared with the screening criteria established in the "Project Screening" section of the TIA Guidelines to check if the project can be screened out. The following is a brief description of the project in relation with the project screening criteria:

- **Small Project:** The TIA Guidelines states that projects generating less than 500 daily trips could be screened out of a detailed VMT analysis. As discussed in Section 6.1, Project Trip Generation, the project is estimated to generate 2,508 daily trips. Therefore, the project does not satisfy this screening criteria.

- **Provision of Affordable Housing:** The project proposes to develop market-rate, single-family dwelling units. Therefore, this screening criteria does not apply to the project.

- **Local-Serving Retail:** The project consists of residential land use only; therefore, this screening criteria does not apply to the project.

- **Project Located in a High-Quality Transit Area (HQTA):** The project is not located within an HQTA; therefore, this screening criteria does not apply to the project.

- **Project Located in Low VMT Area:** The project is not located in a low VMT area; therefore, this criterion does not apply to the project.

As shown above, the project could not be screened out from a detailed VMT analysis. As such, pursuant to the TIA Guidelines, a detailed VMT analysis was conducted to assess the project's VMT impact.

2.1.1 Thresholds of Significance

The project consists of residential land use. The TIA Guidelines established VMT per capita as the appropriate metric to evaluate residential land use projects while defining Fresno County as the "region" for determining VMT thresholds. The project would have a significant VMT impact if the project VMT per capita is greater than 87 percent of the baseline Fresno County VMT per capita. Based on the TIA Guidelines, baseline Fresno County VMT per capita is 16.1 and the corresponding

threshold is 14.1 (which is 87 percent of 16.1). Therefore, the project will have a significant VMT impact if the project VMT per capita is greater than 14.1.

As recommended in the TIA Guidelines, the Fresno COG ABM was used for the project VMT analysis. The model inputs were updated with the project land uses to calculate project VMT. The project VMT was calculated from a Fresno COG ABM model run as described in the following sections.

2.1.2 Project Traffic Analysis Zone Update

The first step in preparation of this analysis was to update the traffic analysis zones (TAZs) in the model that include the project area. The Fresno COG ABM includes the ability to add or split zones. In order to isolate the project VMT, a new zone was created in the model. The project households were included in the newly created zone for modeling purposes. No project-specific network modifications were required for the model run. A model run was conducted for the existing/base scenario with updated model inputs. The outputs from this updated model run were used to calculate the project VMT per capita.

2.1.3 Model Runs and Project Vehicle Miles Traveled Estimation

A model run was conducted for this updated model upon completion of the socioeconomic data update. The outputs from this updated model run were used to calculate the project VMT per capita.

2.2 PROJECT VEHICLE MILES TRAVELED ANALYSIS

Table 2.A summarizes the regional threshold and project VMT per capita. As shown in Table 2.A, the project VMT per capita is 14.9 which is 5.5 percent higher than the City's VMT per capita threshold. Therefore, based on the TIA Guidelines, the project will have a significant VMT impact.

Detailed VMT calculation for the project is included in Appendix B.

2.3 VMT MITIGATION MEASURES

When a lead agency identifies a significant CEQA impact, the agency must identify feasible mitigation measures in order to avoid or substantially reduce that impact. VMT impacts can be mitigated through more behavioral changes. Enforcement of mitigation measures will be subject to the mitigation monitoring requirements under CEQA, as well as the regular police powers of the agency. These measures can also be incorporated as a part of plans, policies, regulations, or project designs.

As previously noted, the project is consistent with the City's General Plan. While preparation of the General Plan, an Environmental Impact Report was prepared, along with a statement of Overriding consideration, that discussed the potential environmental impacts and required mitigation measures to be implemented/followed by all future projects that are consistent with the General Plan. The project will be conditioned to implement and follow these measures. Therefore, though project will have a significant and unavoidable transportation impact under CEQA, no further mitigation measure would be required for the project.

2.4 LIST OF CHAPTER 2.0 TABLES

Table 2.A: Existing Regional and Project VMT per Capita

Regional Threshold (Fresno County)[1]	Project	Difference	Percentage Difference
14.1	14.9	0.8	5.5%

Source: Fresno Council of Governments' Activity-Based Model.

[1] The Fresno County VMT per capita was obtained from the *Transportation Impact Guidelines, City of Clovis* (September 15, 2022).

VMT = vehicle miles traveled

3.0 LOCAL TRANSPORTATION ANALYSIS METHODOLOGY

3.1 LEVEL OF SERVICE DEFINITIONS

LOS can be characterized for the whole intersection, each intersection approach, and by each lane group. Control delay alone is used to characterize LOS for the entire intersection. Control delay quantifies the increase in travel time due to the traffic signal control and is a surrogate measure of driver discomfort and fuel consumption.

A complete description of the meaning of LOS can be found in Transportation Research Board Special Report 209, *Highway Capacity Manual* (HCM). The HCM establishes LOS A through F for intersections. A description of LOS for signalized and unsignalized intersections is summarized in Table 3.A.

Table 3.B shows the LOS criteria for unsignalized and signalized intersections. For all study area intersections, the *Highway Capacity Manual 7th Edition* (HCM 7) analysis methodologies were used to determine intersection LOS. Intersection LOS was calculated using the Synchro 12 software, which uses the HCM 7 methodologies.

3.2 LEVEL OF SERVICE PROCEDURES AND STANDARDS

Study intersections analyzed in this report are completely under the jurisdiction of the City of Clovis or lie at the borders of Clovis and Fresno. The City of Clovis considers LOS D as the LOS standard for study intersections under near-term conditions, unless a finding of overriding consideration was adopted in the City's General Plan EIR. The same criterion holds for cumulative conditions. The City's TIA Guidelines do not define an LOS standard under Existing Plus Project conditions. For the purpose of this analysis, an LOS standard of D has been considered for intersections under Existing Plus Project conditions. The City considers the following operational deficiency criteria for study intersections:

- **Signalized Intersections**
  - If the project triggers a signalized intersection operating at an acceptable LOS to operate at an unacceptable LOS; OR
  - If the project increases the average delay for a signalized intersection that is already operating at an unacceptable LOS.
- **Unsignalized Intersections**
  - If the project triggers an unsignalized intersection operating at acceptable LOS to operate at unacceptable LOS (from E or better to F) and meet the signal warrants criteria; OR
  - If the project increases the applicable delay for an unsignalized study intersection that is already operating at unacceptable LOS and meets the signal warrant criteria.

Per the City of Fresno *Traffic Impact Study Report Guidelines,* updated February 2009, LOS D is considered the LOS standard for study intersections under near-term conditions. The same criterion

holds for long-term conditions. The City's TIA Guidelines do not define an LOS standard under Existing Plus Project conditions.

It should be noted that all City of Fresno study intersections are located within the City of Fresno Traffic Impact Zone (TIZ) III. Per the City of Fresno's General Plan, all intersections within TIZ III should maintain a peak-hour LOS standard of D or better. Therefore, an LOS standard of D has been considered for intersections shared with Fresno for all analysis conditions. The City of Fresno considers the following operational deficiency criteria for study intersections:

- An operational deficiency is created if the addition of the project traffic results in any one of the following:
    - Causes the intersection LOS to change from acceptable to unacceptable levels; OR
    - Causes the intersection LOS to change from an unacceptable LOS (LOS E) to LOS F; OR
    - Increases the average delay at a study intersection that is already operating at an unacceptable LOS.

3.3 LIST OF CHAPTER 3.0 TABLES

- Table 3.A: Intersection Level of Service Definitions
- Table 3.B: Level of Service Criteria for Unsignalized and Signalized Intersections

Table 3.A: Intersection Level of Service Definitions

LOS	Description
A	Traffic operations with a control delay of 10 seconds per vehicle or less and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is exceptionally favorable or the cycle length is very short. If LOS A is the result of favorable progression, most vehicles arrive during the green indication and travel through the intersection without stopping.
B	Traffic operations with control delay between 10 seconds per vehicle and 20 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is highly favorable or the cycle length is short. More vehicles stop than with LOS A.
C	Traffic operations with control delay between 20 and 35 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when progression is favorable or the cycle length is moderate. Individual cycle failures (i.e., one or more queued vehicles are not able to depart as a result of the insufficient capacity during the cycle) may begin to appear at this level. The number of vehicles stopping is significant, although many vehicles still pass through the intersection without stopping.
D	Traffic operations with control delay between 35 and 55 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is high and either progression is ineffective or the cycle length is long. Many vehicles stop and individual cycle failures are noticeable.
E	Traffic operations with control delay between 55 and 80 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when volume-to-capacity ratio is high, progression is unfavorable, and the cycle length is long. Individual cycle failures are frequent.
F	Traffic operations with control delay exceeding 80 seconds per vehicle or a volume-to-capacity ratio greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is very high, progression is very poor, and the cycle length is long. Most cycles fail to clear the queue.

Source: Highway Capacity Manual (7th Edition).

Table 3.B: Level of Service Criteria for Unsignalized and Signalized Intersections

Level of Service	Unsignalized Intersection Average Delay per Vehicle (sec)	Signalized Intersection Average Delay per Vehicle (sec)
A	≤ 10	≤ 10
B	> 10 and ≤ 15	> 10 and ≤ 20
C	> 15 and ≤ 25	> 20 and ≤ 35
D	> 25 and ≤ 35	> 35 and ≤ 55
E	> 35 and ≤ 50	> 55 and ≤ 80
F	> 50	> 80

Source: Highway Capacity Manual (7th Edition).
sec = seconds

4.0 CIRCULATION NETWORK SETTING

4.1 EXISTING CIRCULATION NETWORK

The project study area includes the following major roadways as classified based on the roadway classification provided in the Circulation Element of the City's General Plan. Figure 4-1 summarizes the classifications of major roadways within the study area. Following is a brief description of these roadways:

- **Willow Avenue:** Willow Avenue is designated as an Arterial in the City's General Plan. Between Behymer Avenue and Shepherd Avenue, Willow Avenue is a six-lane, divided Arterial with a raised median. There are bicycle lanes along both directions of this segment. However, there is no provision for on-street parking.

- **Minnewawa Avenue:** Within the study area, Minnewawa Avenue is designated as an Arterial between Behymer Avenue and Shepherd Avenue in the City's General Plan. Minnewawa Avenue is a two-lane, undivided road. There are bicycle lanes along both directions of this segment. However, there is no provision for on-street parking.

- **Behymer Avenue:** Within the study area, Behymer Avenue is designated as an Arterial between Willow Avenue and Minnewawa Avenue in the City's General Plan. Between Willow Avenue and Minnewawa Avenue, Behymer Avenue is a two-lane, undivided road. There are no bicycle facilities along both directions of this segment and no provision for on-street parking.

- **Shepherd Avenue:** Within the study area, Shepherd Avenue is designated as an Arterial between Willow Avenue and Minnewawa Avenue in the City's General Plan. Shepherd Avenue is a three-lane, divided road with a raised median. There are bicycle lanes along both directions of the segment. There is no provision for on-street parking along any of these segments.

- **Perrin Avenue:** Within the study area, Perrin Avenue is designated as a Collector in the City's General Plan and is a two-lane, undivided roadway with no bicycle lanes along both directions of these segments and there is no provision for on-street parking.

Figure 4-2 illustrates the existing plus project study intersection geometrics and traffic control, and Figure 4-3 illustrates the cumulative plus project study intersection geometrics and traffic control.

4.2 BICYCLES, PEDESTRIANS, AND TRANSIT

4.2.1 Bicycle Network

The vision of the City of Clovis *Active Transportation Plan (ATP)*, September 2023, is a "city with a complete and connected network of trails, walkways, and bikeways that provides convenient and intuitive connections to key destinations and supports travel within and between neighborhoods. The network improves quality of life by encouraging walking and bicycling for transportation and recreation." The ATP identifies different strategies to improve safety and accessibility for active

modes of transportation such as walking and biking. There are four different types of existing bicycle facilities in the City:

- Class I (Trails)
- Class II (Bicycle Lanes)
- Class II (Buffered Bicycle Lanes)
- Class III (Bicycle Routes)

One of the long-term visions of the City includes upgrading existing or recommended Class II Bicycle Lanes and Buffered Bicycle Lanes to Class IV Separated Bicycle Lanes.

Figures 4-4 illustrate the existing and proposed bicycle facilities within the City. At present, Class II bicycle lanes exist along Willow Avenue, Minnewawa Avenue and Shepherd Avenue within the study area. However, as shown in Figure 4-4, Class II bicycle facilities are proposed along Behymer Avenue and Peach Avenue roadways within the study.

4.2.2 Pedestrian Network

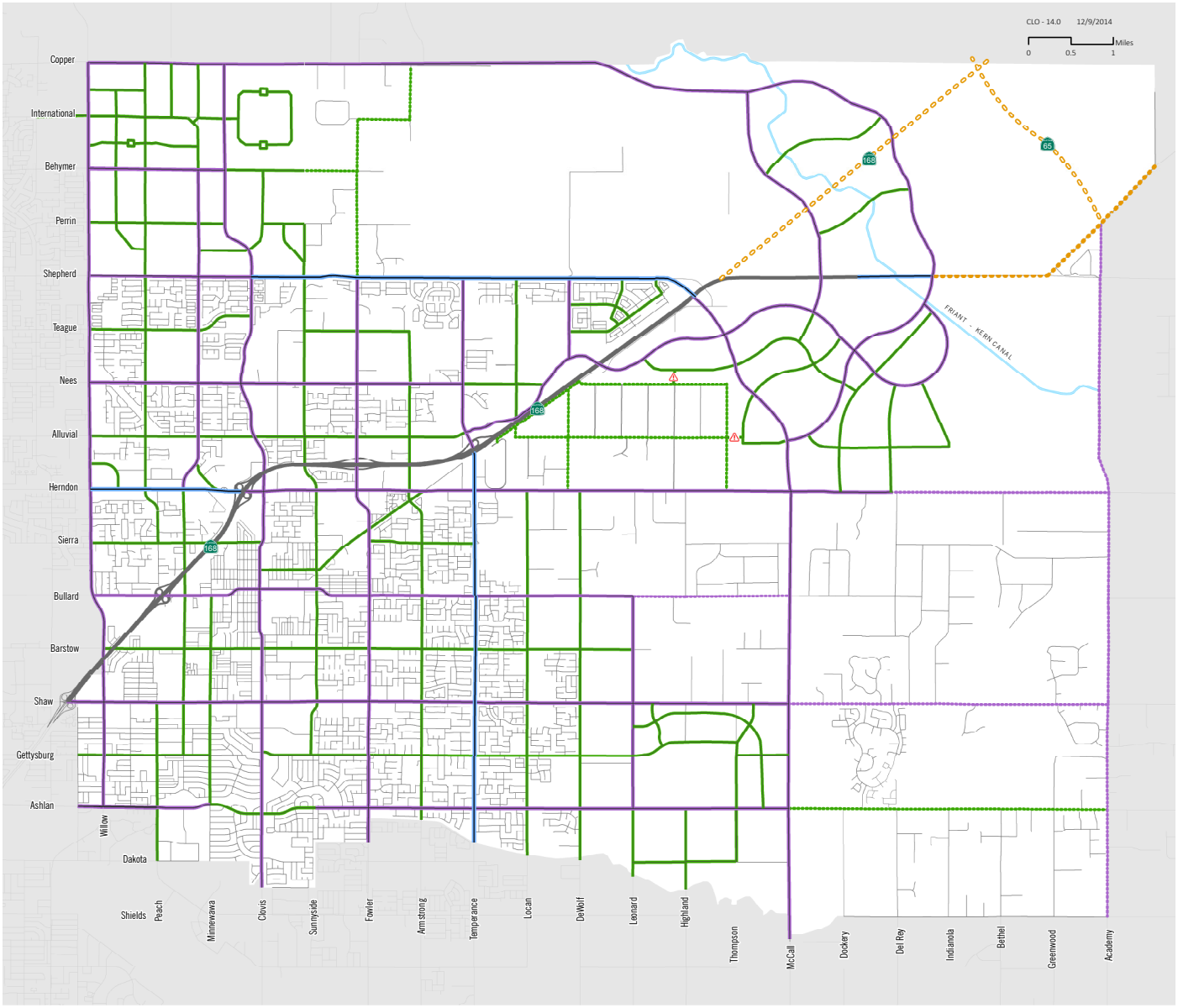
The City has an extensive pedestrian network, with sidewalks along most of the major roads. However, since a portion of the study area falls within recently incorporated areas of the City, sidewalks are not present because they were previously developed as per unincorporated Fresno County design guidelines. Figure 4-5 illustrates the existing sidewalk facilities within Clovis.

The City's ATP has identified improvements to the pedestrian network based on a citywide sidewalk network gap analysis. Additionally, several potential locations have been identified to install mid-block crossings to improve trail connectivity throughout Clovis. Figure 4-6 illustrates the existing and proposed trails and paseos in Clovis. As shown on Figure 4-6, Clovis Old Town Trail exists on the southbound direction of Willow Avenue within the study area. However, additional trails are being proposed in the study area such as along Shepherd Avenue and Minnewawa Avenue.

4.2.3 Transit Network

Fresno Area Express (FAX) Route 03 operates within the study area along Willow Avenue, 7 days a week. The route connects communities in Fresno to the different campuses of Clovis Community College. In addition to fixed route services, Round Up is the Clovis paratransit service for disabled City residents. Round Up transit vehicles are all accessible in accordance with the Americans with Disabilities Act (ADA) standards. Figure 4-7 illustrates the existing transit system within Clovis.

4.3 LIST OF CHAPTER 4.0 FIGURES



LSA

LEGEND

- Freeway
- Conceptual 2-4 Lane State Highway
- State Highway
- Expressway
- Arterial
- Rural Arterial
- Collector
- Rural Collector
- Local
- Emergency Access Only

N

FIGURE 4-1

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

City of Clovis Roadway Classification

SOURCE: Clovis General Plan, August 2014

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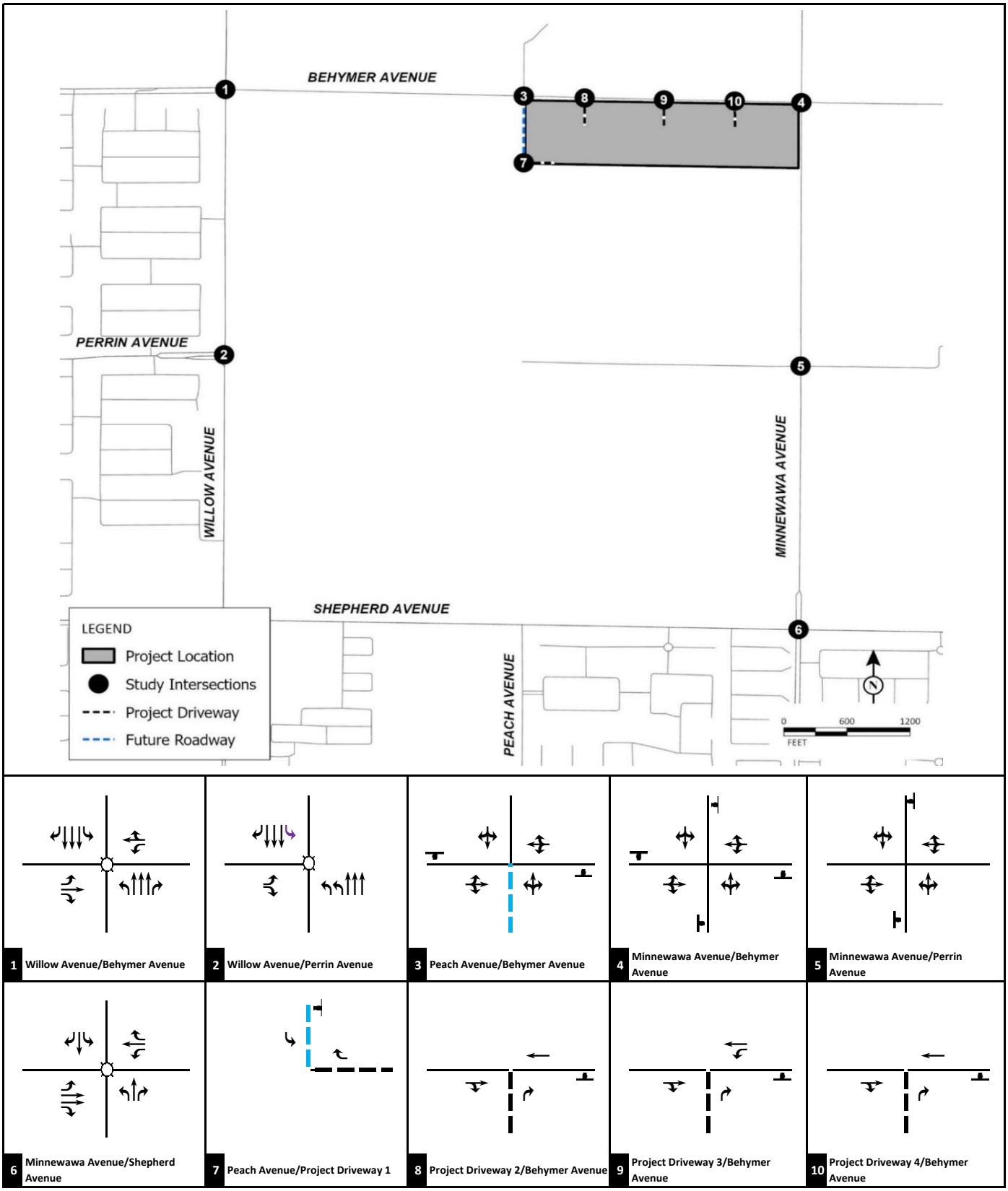

FIGURE 4-2

LSA

Legend

Signal
Stop Sign
Project Driveway
Future Driveway
U-Turn Movement

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Existing Plus Project Study Intersection Geometrics and Traffic Control

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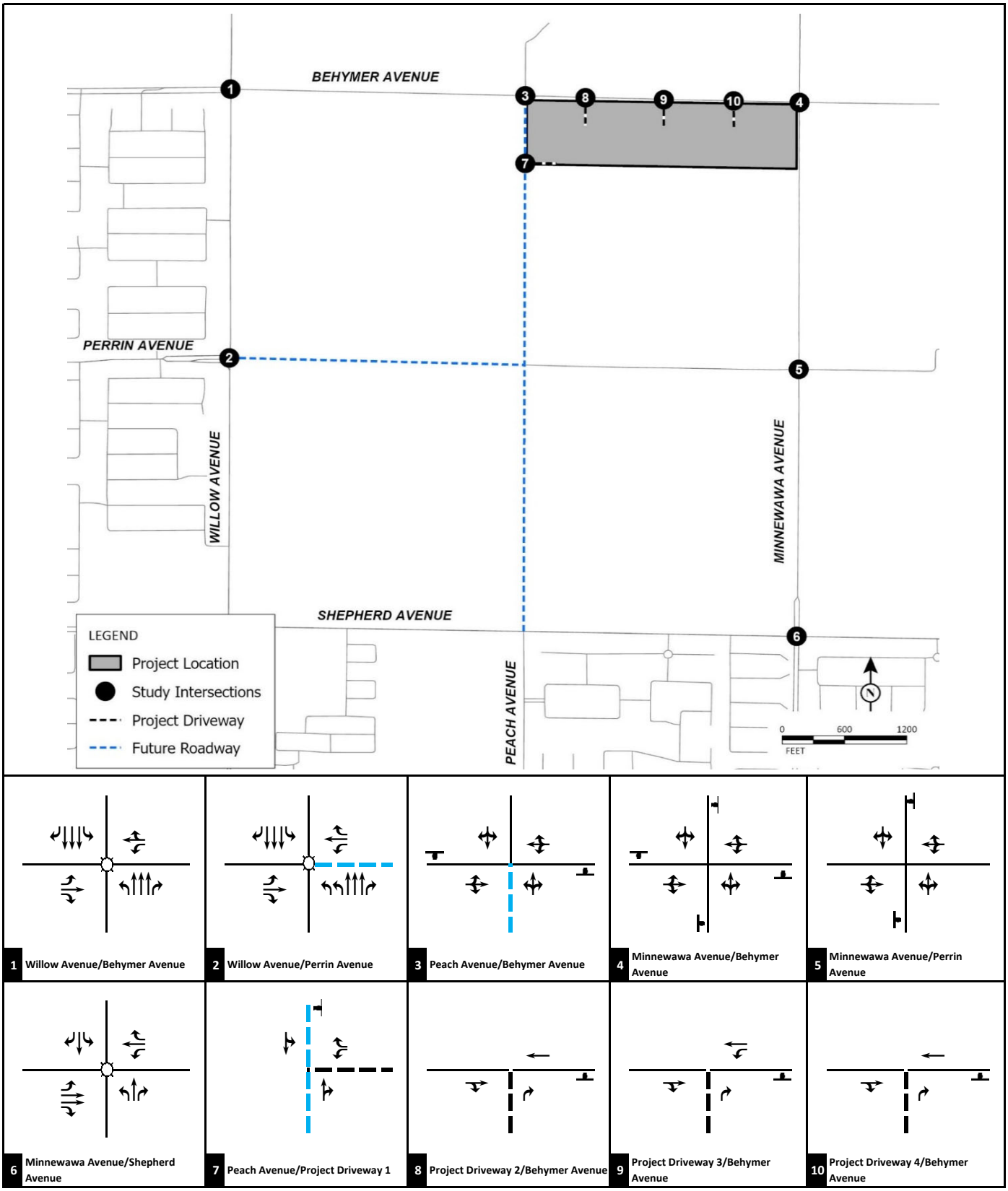


FIGURE 4-3

LSA

Legend

Signal

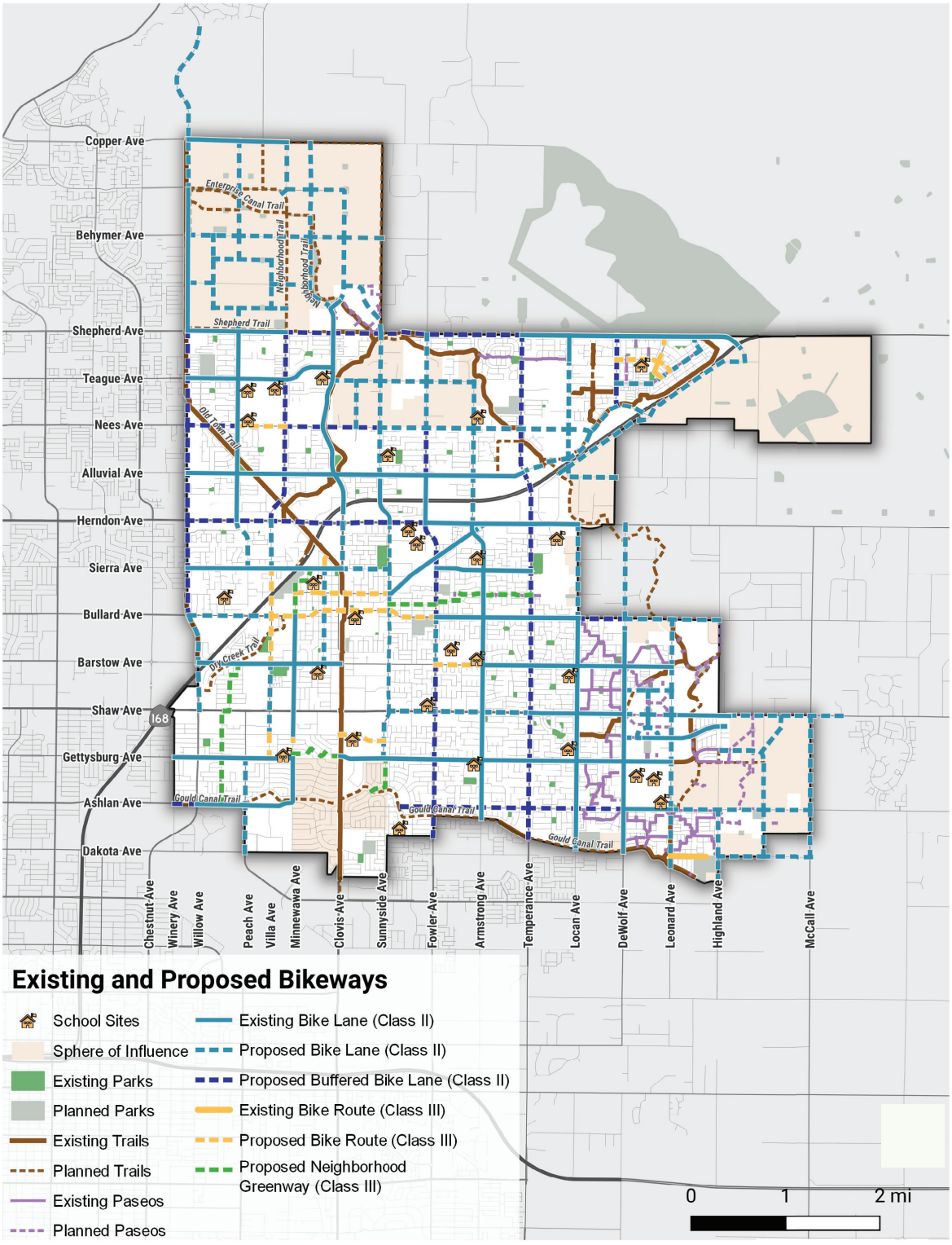
Stop Sign

Project Driveway

Future Driveway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Cumulative Plus Project Study Intersection Geometrics and Traffic Control



LSA

FIGURE 4-4

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

City of Clovis Existing and Proposed Bikeways

SOURCE: City of Clovis Active Transportation Plan, September 2023.

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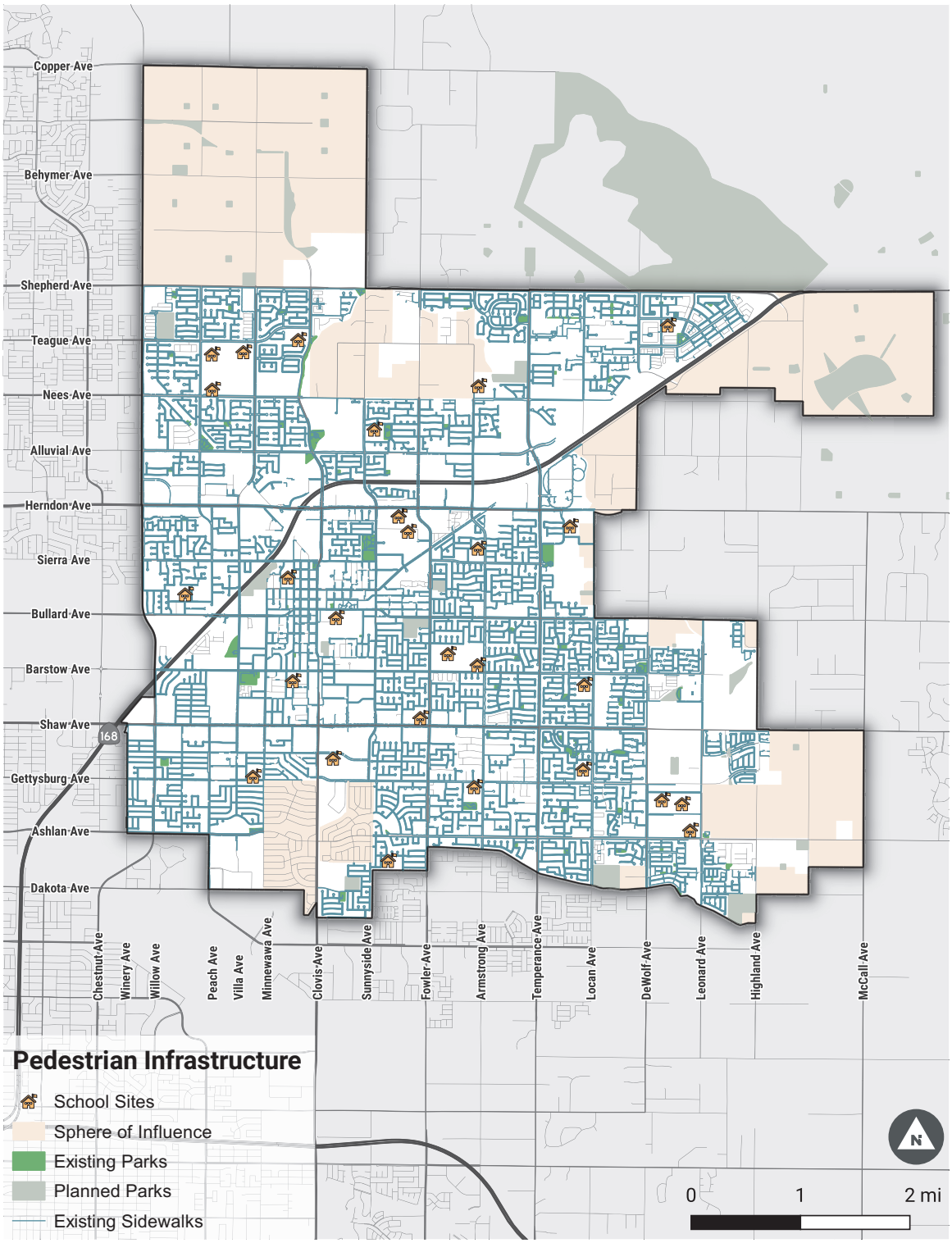

LSA

FIGURE 4-5

N

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

City of Clovis Existing Pedestrian Infrastructure

SOURCE: City of Clovis Active Transportation Plan, September 2023.

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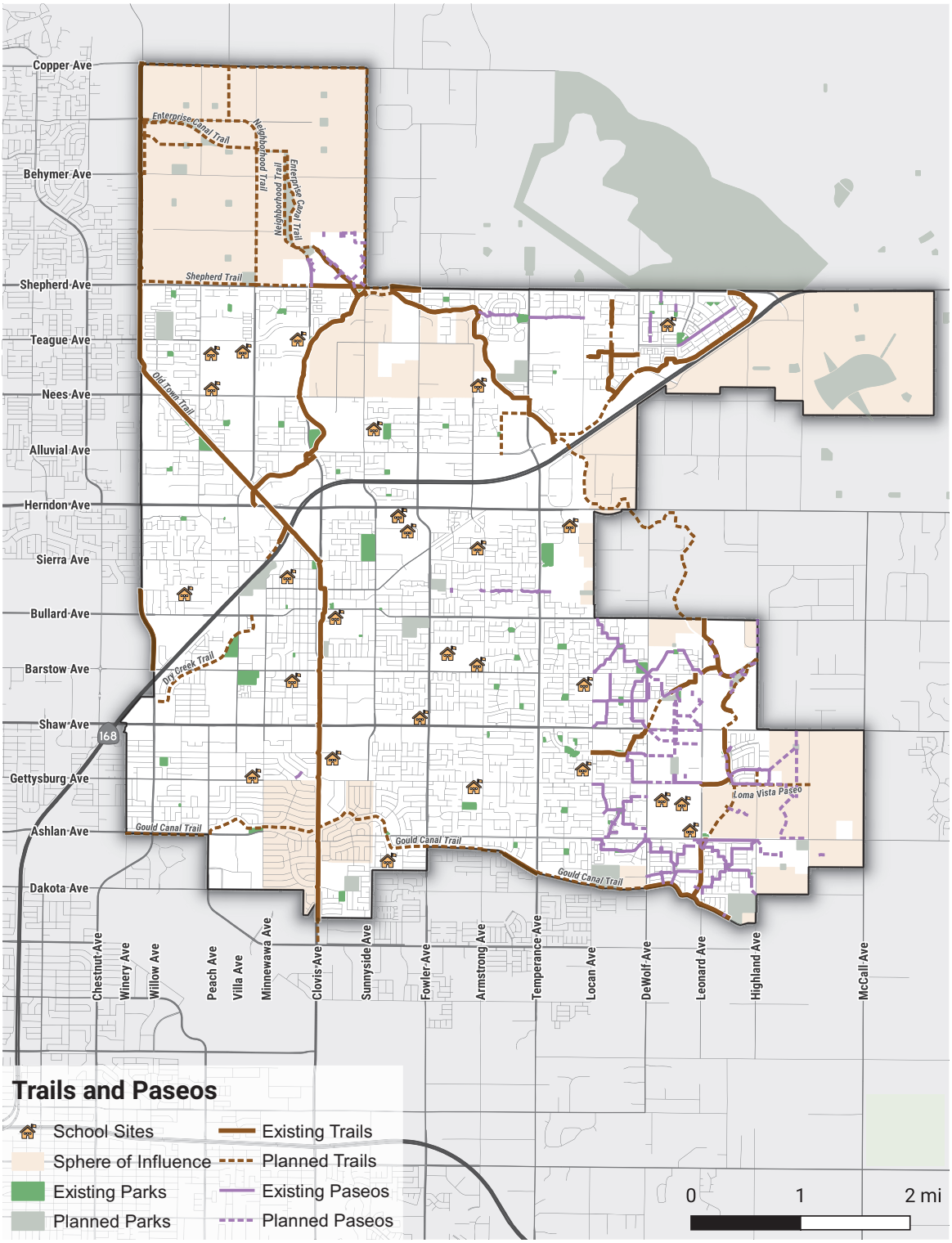

LSA

FIGURE 4-6

N

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

City of Clovis Existing and Proposed Trails and Paseos

SOURCE: City of Clovis Active Transportation Plan, September 2023.

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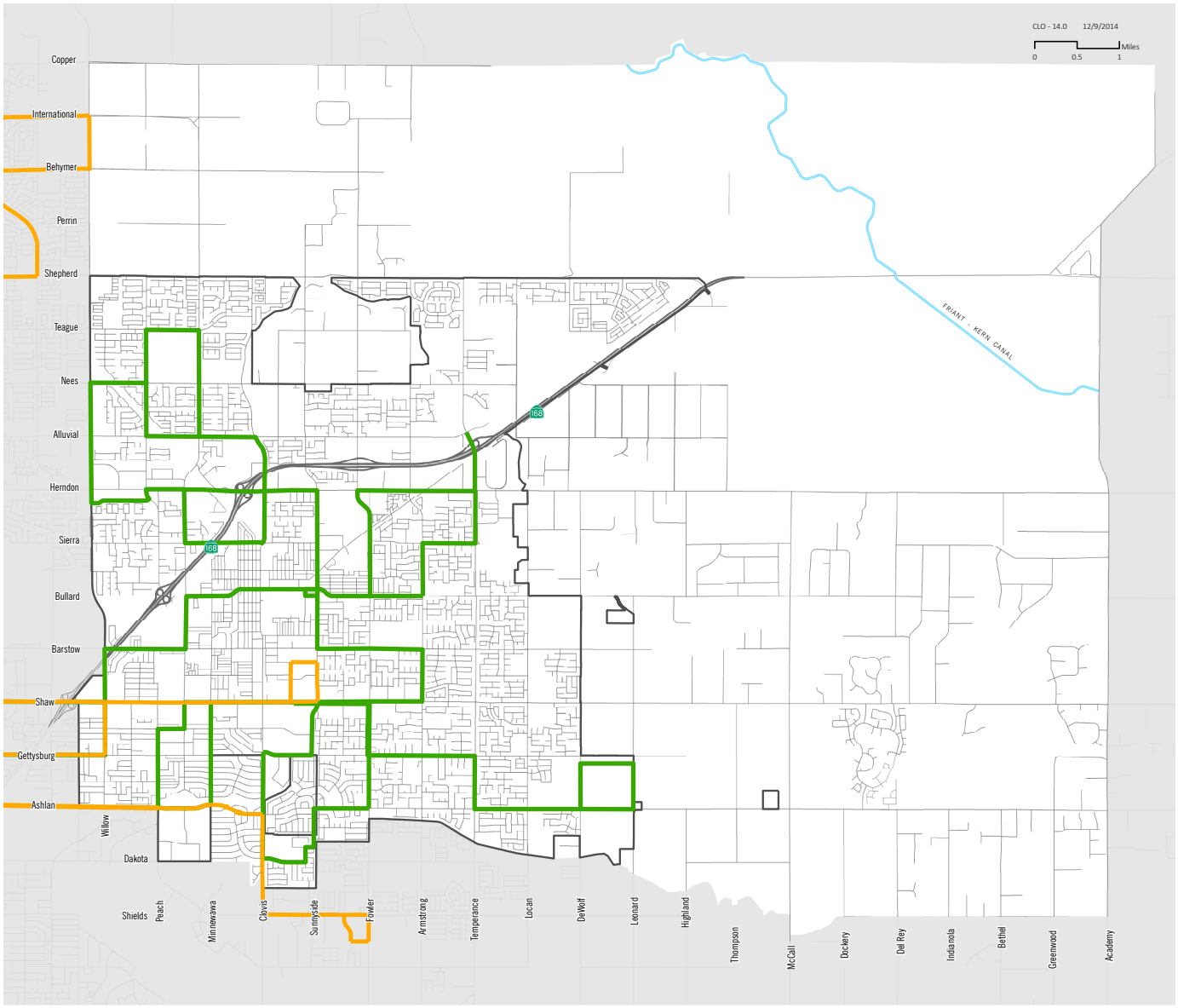

LSA

LEGEND

- FAX Routes
- Clovis Stageline Route
- City Boundary

N

FIGURE 4-7

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

City of Clovis Transit System

SOURCE: Clovis General Plan, August 2014

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5.0 TRAFFIC VOLUMES FOR WITHOUT PROJECT SCENARIOS

5.1 EXISTING TRAFFIC VOLUMES

Traffic volumes for existing conditions were developed using existing count data collected by Counts Unlimited in May 2024 at study intersections, when schools were in session. Vehicle classification counts were collected at selected study area intersections. Truck percentages for every approach at these intersections were obtained from the vehicle classification counts. As for the remaining study intersections without classification counts, truck percentages for the various approaches were applied based on the truck percentages at the adjacent intersections. This truck percentages were applied in Synchro for intersection LOS analysis.

Figure 5-1 illustrates peak-hour traffic volumes at study intersections under existing conditions. Detailed count sheets are included in Appendix C.

5.2 NEAR-TERM (2028) WITHOUT PROJECT TRAFFIC VOLUMES

Traffic volumes under the Near-term (2028) and Cumulative (2046) were developed using the Fresno Council of Governments' (COG's) Activity-Based Model (ABM) growth projections. The current base year for Fresno COG ABM is 2019, while the forecast year is 2046.

The forecast year model socioeconomic data were evaluated to check whether it includes information regarding the approved and pending projects in the region. Information concerning approved and pending projects within the vicinity of the study area were obtained from the City of Clovis, City of Fresno, and County of Fresno, and were compared with the future year socioeconomic data for their respective TAZ. In case it was determined that the respective project was not included, the project information was manually added into the model for generating future year traffic volumes. As such, the updated model included all potential approved and pending projects as provided by the City of Clovis and adjacent jurisdictions to be built by future year conditions. Figure 5-2 illustrates these approved and pending project locations. Table 5.A summarizes the proposed land uses and quantities for these projects.

Growth from the model base to the model future was applied to existing traffic volumes to develop Near-Term (2028) without project traffic volumes. The methodology used to develop cumulative traffic volumes at all study intersections is consistent with the National Cooperative Highway Research Program (NCHRP) and Fresno COG's procedures for post-processing of modeled traffic volumes. As such, Near-Term (2028) without project traffic volumes were developed by interpolating between Existing (2024) and Cumulative (2046) traffic volumes. Figure 5-3 illustrates the peak-hour traffic volumes at study intersections under near-term without project conditions.

It should be noted that volume development for this scenario have been conducted as an intermediate step for the development of traffic volumes for the Near-Term Plus Project Conditions. As such, as recommended in the City's TIA Guidelines and approved during the scoping agreement process, this scenario has not been analyzed in the LTA.

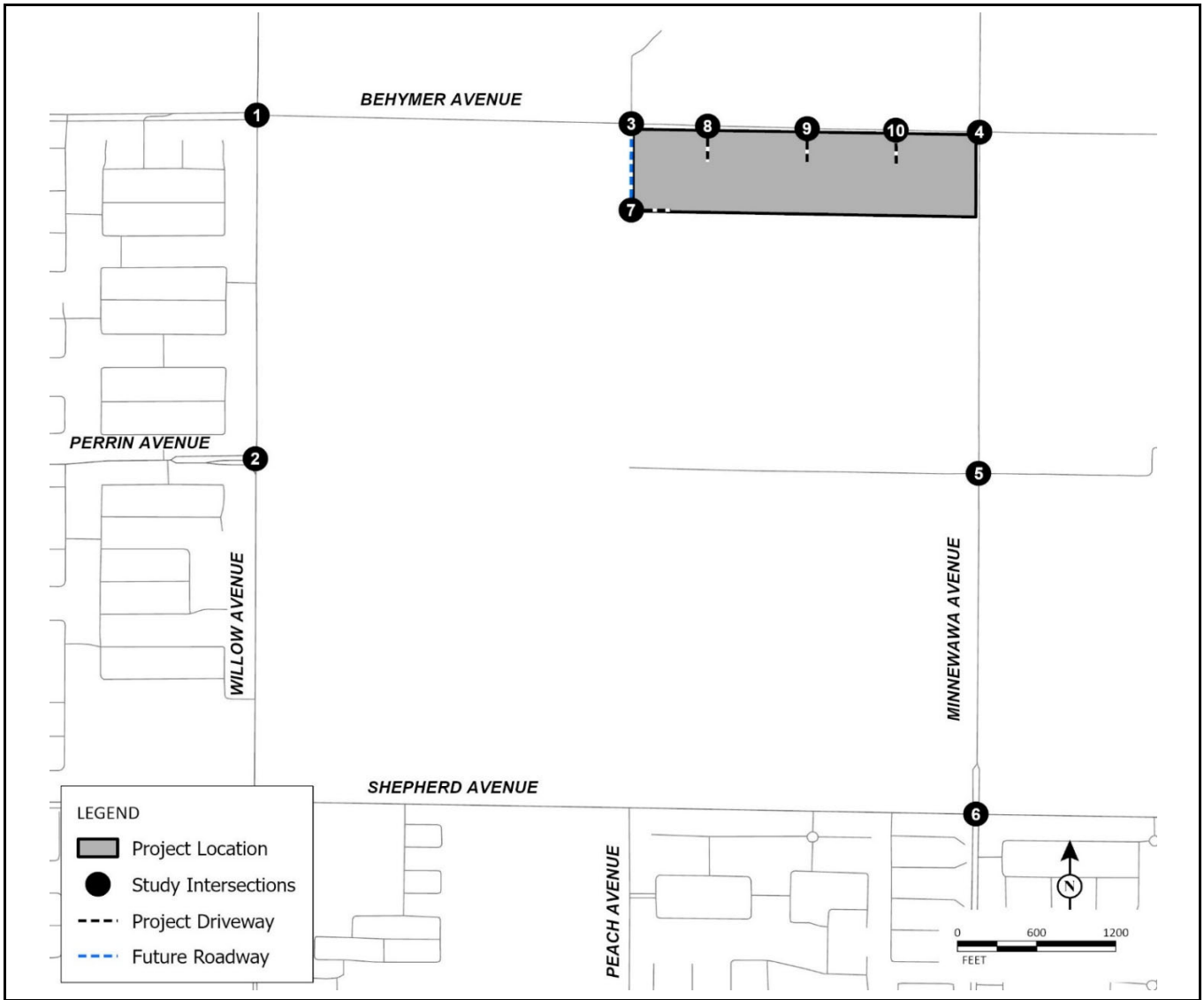
5.3 CUMULATIVE (2046) WITHOUT PROJECT TRAFFIC VOLUMES

As previously mentioned, traffic volumes for cumulative conditions were developed using the Fresno COG ABM. The methodology used to develop cumulative traffic volumes at all study intersections is consistent with the National Cooperative Highway Research Program (NCHRP) and Fresno COG's procedures for post-processing of modeled traffic volumes. Figure 5-4 illustrates the peak-hour traffic volumes at study intersections under cumulative without project conditions.

Detailed volume development worksheets are included in Appendix D.

5.4 LIST OF CHAPTER 5.0 FIGURES AND TABLES

- Figure 5-1: Existing Peak-Hour Traffic Volumes
- Figure 5-2: Approved and Pending Project Locations
- Figure 5-3: Near-Term (2028) without Project Peak-Hour Traffic Volumes
- Figure 5-4: Cumulative (2046) without Project Peak-Hour Traffic Volumes
- Table 5.A: Approved and Pending Projects



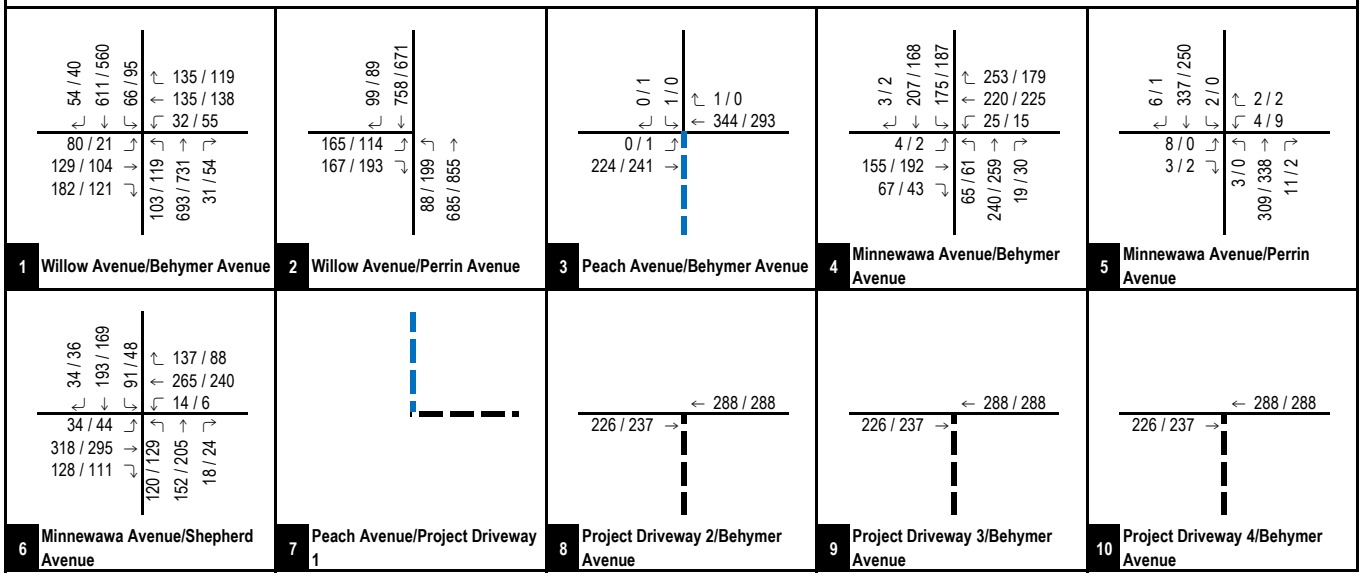


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FIGURE 5-1

XXX / YYY
AM / PM Peak Hour Traffic Volumes

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Existing Peak Hour Traffic Volumes

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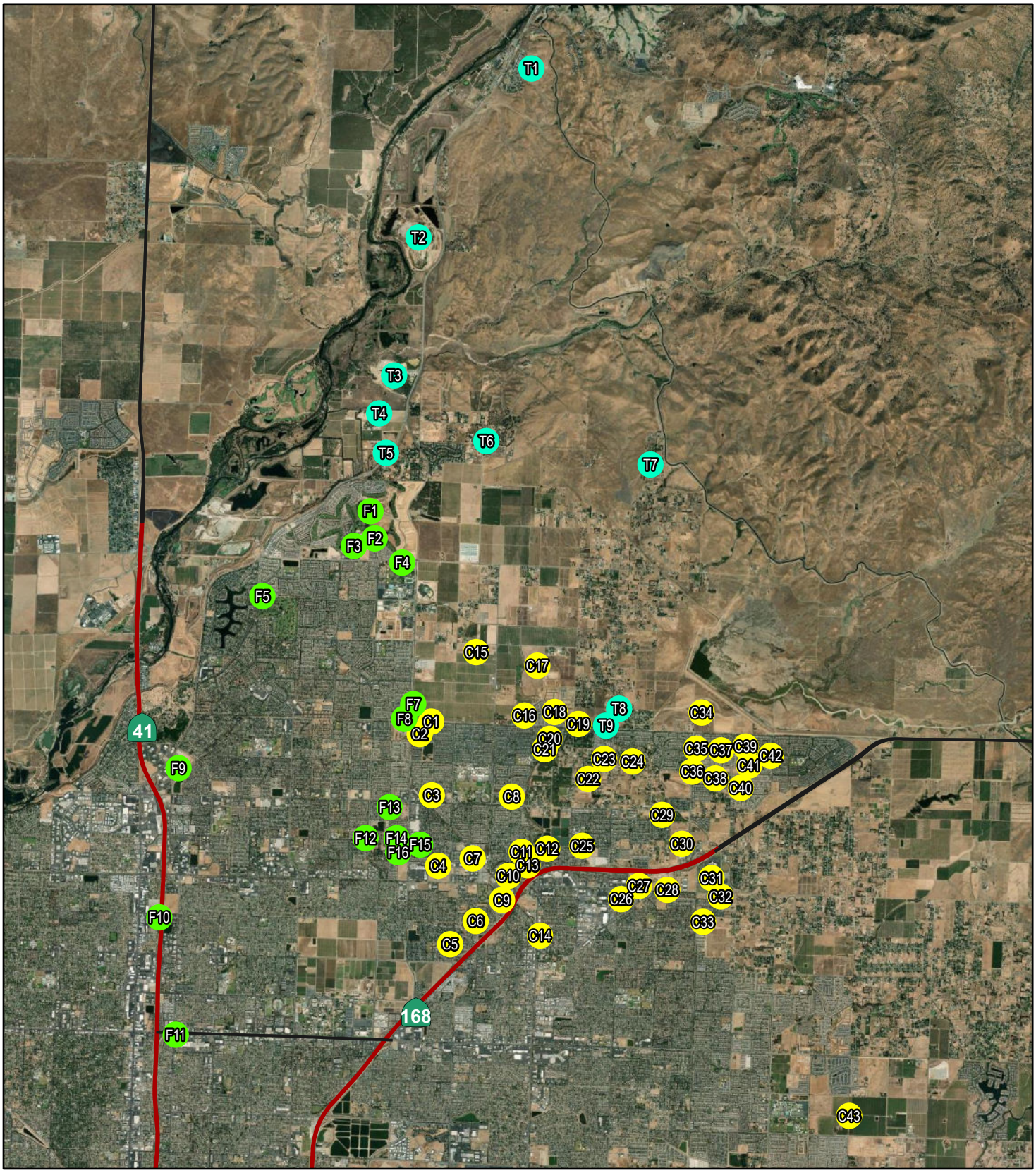

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LEGEND

- City of Clovis
- City of Fresno
- County of Fresno

0 4000 8000

FEET

FIGURE 5-2

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Approved and Pending Project Locations

SOURCE: Google Earth 2021; ESRI Streetmap, 2021

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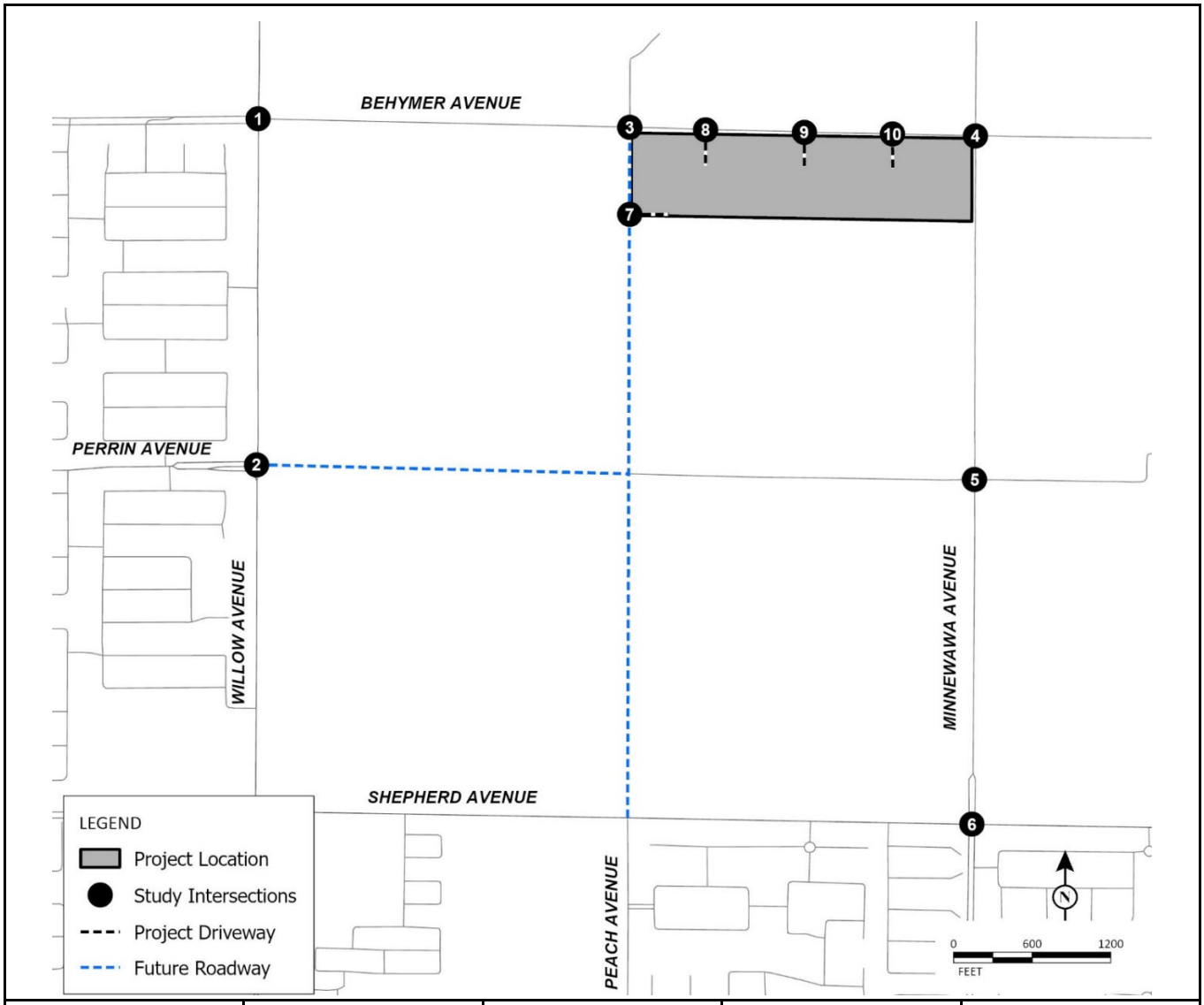

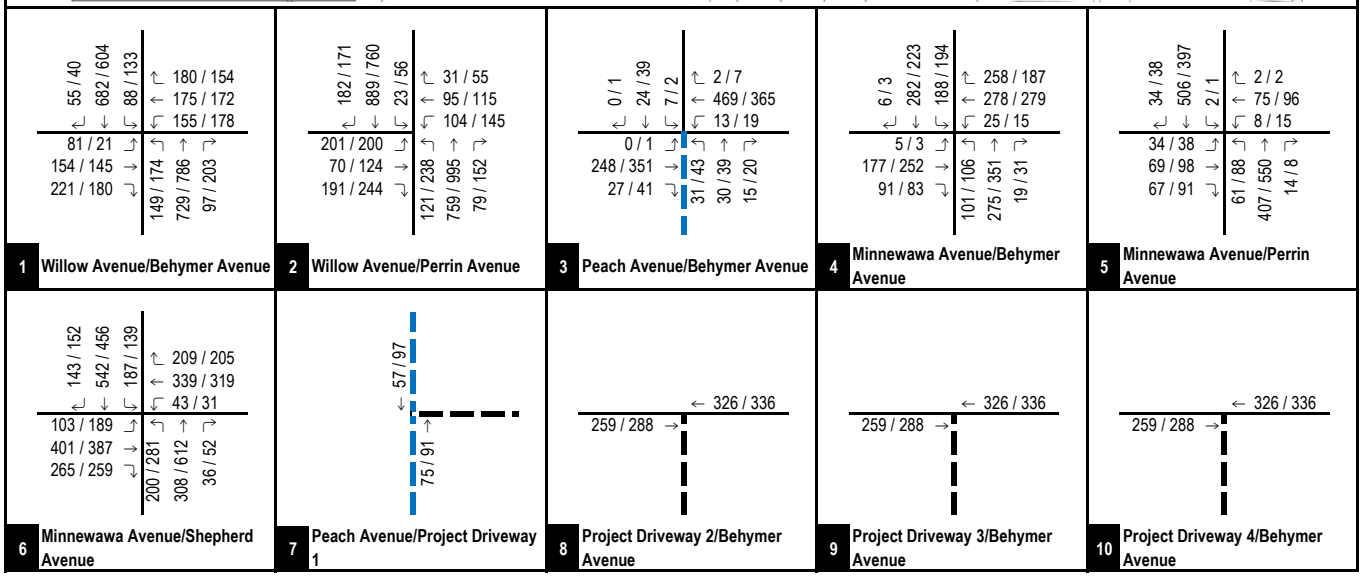

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FIGURE 5-3

XXX / YYY
AM / PM Peak Hour Traffic Volumes

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Near-Term (2028) without Project Peak Hour Traffic Volumes

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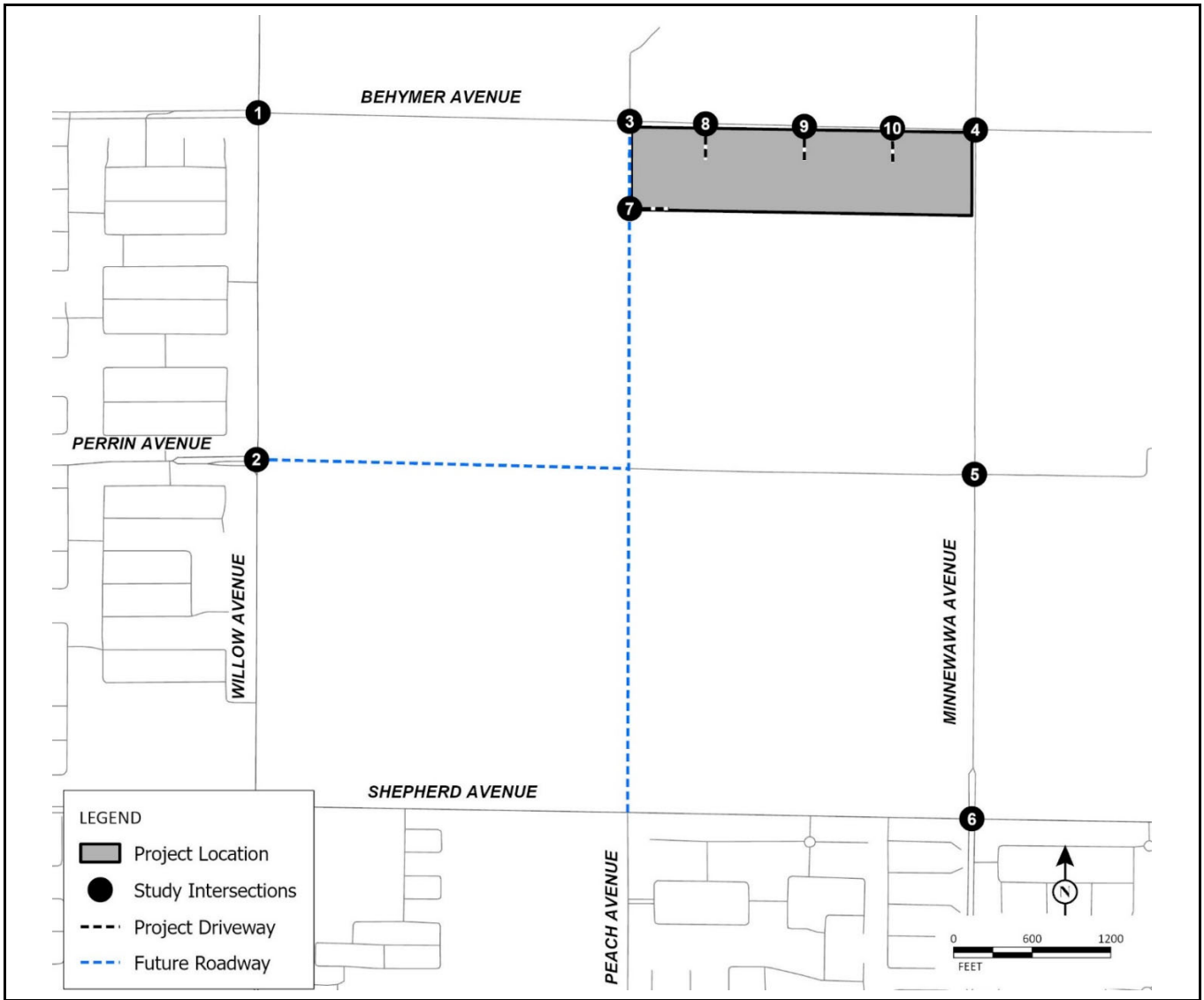

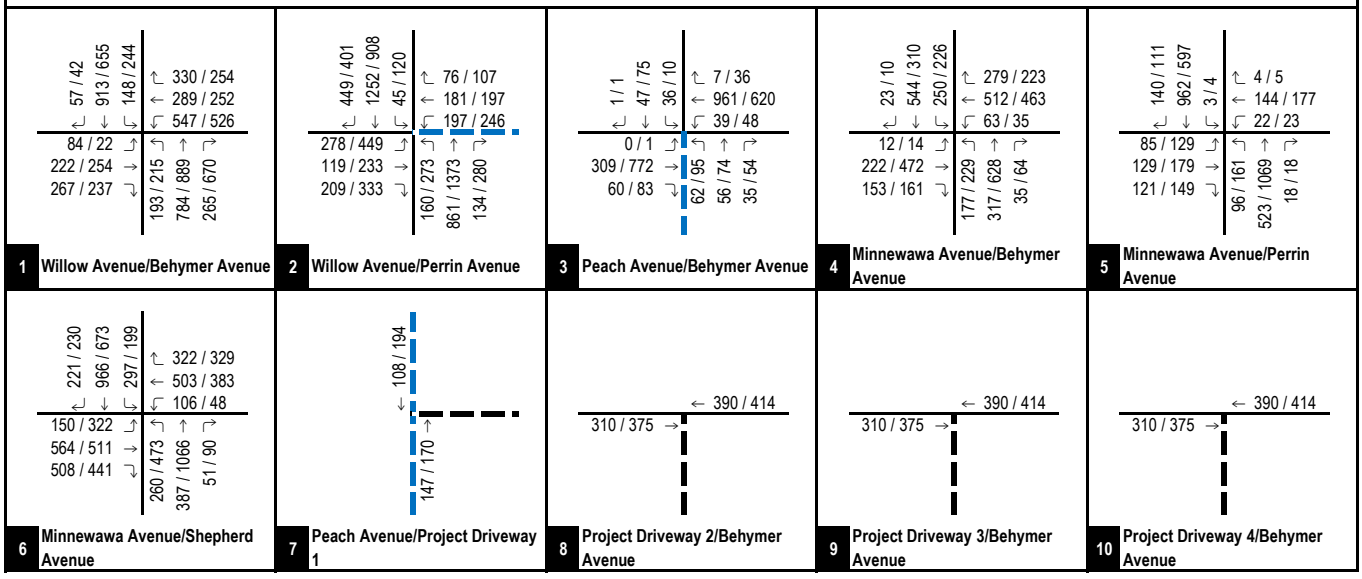

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FIGURE 5-4

XXXX / YYYY
AM / PM Peak Hour Traffic Volumes

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Cumulative (2046) without Project Peak Hour Traffic Volumes

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Table 5.A - Approved and Pending Projects

ID	Jurisdiction	Project Name/Reference	Address/Location	Project Description	Project Units/Area/Other
C1	City of Clovis	SPR 2021-09	1958 N Willow Avenue	Commercial Expansion	24.287 TSF
C2	City of Clovis	MFDR 2021-02	SEC of Willow Ave/Shepherd Ave	Multi-Family Dwelling Units	255 MFDU
C3	City of Clovis	TM 6348	NEC of Timmy Ave/Ness Ave	Single Family Development	10 SFDU
C4	City of Clovis	TM 6262	NWC of Peach Ave/Herndon Ave	Single Family Development	185 SFDU
C5	City of Clovis	TM 6125	NWC of Peach Ave/Stuart Ave	Single Family Development	25 SFDU
C6	City of Clovis	PM 2022-002	NWC of Villa Ave/Sierra Ave	Single Family Development	4 SFDU
C7	City of Clovis	SPR 2015-002	North of Spruce Ave and West of Halifax Ave	Office/Warehouse	37.68 TSF
C8	City of Clovis	The Well Community Church	NWC of Clovis Ave/Nees Ave	Church Expansion	80 TSF
C9	City of Clovis	SPR 2008-016A2	NEC of Fairfax Ave/Palo Alto Ave	Office/Warehouse	4.488 TSF
C10	City of Clovis	SPR 2021-014	520 Park Creek	Warehouse	9.897 TSF
C11	City of Clovis	SPR 2022-005	NEC of Pollasky Ave/Park Creek Dr	Office/Warehouse	19 TSF
C12	City of Clovis	SPR 2022-002	NEC of Pollasky Ave/Park Creek Dr	Office/Warehouse	14.218 TSF
C13	City of Clovis	603 & 623 Pollasky Avenue	NEC of Pollasky Ave/Park Creek Dr	Office/Warehouse	13.641 TSF
C14	City of Clovis	Landmark Common Civic Center North (CIP 15-03)	NEC of Clovis Ave/3rd Street	Mixed-use development consisting of approximately 67 TSF of community and office uses	30 TSF Senior Activity Center; 8.766 TSF Transit Center; 30 TSF Library.
C15	City of Clovis	Heritage Grove Specific Plan	North Clovis	Specific Plan	275 TSF Retail; 50 TSF Commercial/Office; 150 RM Hotel.
C16	City of Clovis	TM 6050 (TM 6328;TM 6329)	NEC of Clovis Ave/Shepherd Ave	Single-Family Dwelling Units	255 SFDU
C17	City of Clovis	TM 6343	NEC of Clovis Ave/Shepherd Ave	Single-Family Dwelling Units	590 SFDU
C18	City of Clovis	TM 6200 (TM6452; TM6292; TM6344;TM6342;TM6406)	On Shepherd Ave, between Clovis Ave and Sunnyside Ave	Single-Family Dwelling Units	576 SFDU
C19	City of Clovis	TM 6205 - Shepherd North	NEC of Shepherd Ave/Sunnyside Ave	Single-Family Dwelling Units	605 SFDU
C20	City of Clovis	TM 6263	South side of Teague Avenue near Purdue Avenue	Single-Family Dwelling Units	74 SFDU
C21	City of Clovis	TM 6268	SWC of Clovis Ave and Riordan Ave	Single-Family Dwelling Units	10 SFDU
C22	City of Clovis	TM 6284	South side of Teague Avenue near Purdue Ave	Single-Family Dwelling Units	74 SFDU
C23	City of Clovis	TM 6154	NWC of Fowler Aveand Teague Aven	Single-Family Dwelling Units	95 SFDU
C24	City of Clovis	TM 5550	1991 Trenton Ave	Single-Family Dwelling Units	31 SFDU
C25	City of Clovis	The Palms IS	NEC of Sunnyside Ave/Alluvial Ave	Multi-Family Dwelling Units	12 MFDU
C26	City of Clovis	Clovis Unified School District Fowler-Henderson Campus	SEC of Fowler Ave/Herndon Ave	Educational Institution	62 Employess; 170 Students; 50 Staff; 90 TSF Office; Future Admin Building.
C27	City of Clovis	SPR 2003-017A2	NWC of Armstrong Ave/Herndon Ave	Medical Office	7.02 TSF
C28	City of Clovis	SPR 2019-016	NEC of Armstrong Ave/Herndon Ave	VA Site - Current phase will be parking only, no building. Building will start 1-yr after parking is completed.	211 TSF
C29	City of Clovis	TM 6367	West of Temperance Ave and Ness Ave	Single-Family Dwelling Units	8 SFDU
C30	City of Clovis	SPR 2023-010	NWC of Temperance Ave/Alluvial Ave	Office /Warehouse	Admin building - 62 employees and 30 students; Online education building - 50 staff and 140 students; School district office - 90 k.s.f.
C31	City of Clovis	SPR 90-088A12	2755 Herndon Ave	Medical Hospital Expansion	150 Occupied Beds Hotel; 220.000 TSF Retail; 468.844 TSF Hospital; 354.392 TSF MOB; 100 Occupied Bed Assisted Living
C32	City of Clovis	SPR 2018-020	SEC of Herndon Ave/Coventry Ave	Assisted Living	150 Beds
C33	City of Clovis	SPR 2007-025A2	East of Temperance Ave and Coventry Ave	Office/Warehouse	3.373 TSF
C34	City of Clovis	TM 6438 - Vista Ranch	NEC of Temperance Ave/Shepherd Ave	Single-Family Dwelling Units and Multi-Family Dwelling Units	3149 MFDU; 137 SFDU; 200 TSF Commercial; 421 TSF Mini Storage; 3 Acres Public Park.
C35	City of Clovis	TM 6301	SEC of Temperance Ave/Powers Ave	Single-Family Dwelling Units	55 SFDU
C36	City of Clovis	TM 6209	SEC of Temperance Ave/Powers Ave	Single-Family Dwelling Units	71 SFDU
C37	City of Clovis	TM 6109	SEC of Temperance Ave/Powers Ave	Single-Family Dwelling Units	101 SFDU
C38	City of Clovis	TM 6339	South of Moody Ave and East of Locan Avenue	Single-Family Dwelling Units	37 SFDU

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Table 5.A - Approved and Pending Projects

ID	Jurisdiction	Project Name/Reference	Address/Location	Project Description	Project Units/Area/Other
C39	City of Clovis	TM 6239	East of Locan Avenue and South of Shepherd Ave .	Single-Family Dwelling Units	162 SFDU
C40	City of Clovis	TM 6277	NEC of Locan Ave/Teague Ave	Single-Family Dwelling Units	8 DU
C43	City of Clovis	TM 6332	NEC of Locan Ave/Teague Ave	Single-Family Dwelling Units	59 DU
C44	City of Clovis	TM 6389	NEC of Locan Ave/Teague Ave	Single-Family Dwelling Units	41 DU
C45	City of Clovis	Home Place Master Plan	NEC of Leonard Ave/Ashlan Ave	Single-Family Dwelling Units, Multi-Family Dwelling Units & Commercial Development	1174 SFDU; 132 MF.
F1	City of Fresno	McDonald Homes Plan	11479 N Willow Ave	Single-Family Dwelling Units in the Copper River Ranch Specific Plan	22 SFDU
F2	City of Fresno	New Single Family Residence	2442 Copper Ridge	Single-Family Dwelling Units in the Copper River Ranch Specific Plan	1 SFDU
F3	City of Fresno	Glasgow Project Custom 2-story	11215 Glasgow Dr	Single-Family Dwelling Units in the Copper River Ranch Specific Plan	1 SFDU
F4	City of Fresno	Lennar Townhomes Plan 1003	2814 E Teaberry Dr	Single-Family Dwelling Unit	1 SFDU
F5	City of Fresno	New Single Family Residence	1051 Turnberry Ave	Single-Family Dwelling Units	2 SFDU
F7	City of Fresno	Shell Building -The Row - Pad 1	2896 Shepherd Ave	Comercial - Shell Building (All Occupancies)	4.013 TSF
F8	City of Fresno	Shell Building -The Row - Pad 4	2884 E Shepherd Ave	Comercial - Shell Building (All Occupancies)	4.46 TSF
F9	City of Fresno	Shell Building - Park Crossing - Shops C	8472 Friant Rd	Comercial - Shell Building (All Occupancies)	1.684 TSF
F10	City of Fresno	Change of Occupancy_ Banyan Tree Retail	207 Sierra Ave	Comercial - Restaurants, Cafes, etc.	3 TSF
F11	City of Fresno	Shaw/Fresno Commercial	417 Shaw Ave	Comercial - Shell Building (All Occupancies)	2.24 TSF
F12	City of Fresno	MFR Avalon Complex	7521 Chestnut Ave	Multi-Family Dwelling Units	60 MFDU
F13	City of Fresno	Comm Misc.	2777 Nees Ave	Cross City Church - 8 EV Chargers & Site Lighting	2000811
F14	City of Fresno	New Residential Buildings	2808 Alluvial Ave	Multi-Family Dwelling Units	28 MFDU
F15	City of Fresno	MFR Building	7346 Willow Ave	Multi-Family Dwelling Units	176 MFDU
F16	City of Fresno	Community/Office Building	7355 Willow Ave	Industrial - Storage	8.362 TSF
T1	County of Fresno	Friant Ranch Specific Plan	Specific Plan 5 miles north of City of Fresno	Single-family and multi-family residential units, commercial village center, and recreation center.	2,270 Housing (55+ age restricted); 180 MFDU (non-age restricted); 16.1 acre Recreation and Fitness Complex and Community Lodge; 250 TSF commercial and retail space; 50 DU housing at the Village Center; 6 acre Depot Commercial.
T2	County of Fresno	CUP 3667 - Pete LoCastro CMEX	West of Friant Road	Quarry Site	349 acres Quarry Site; 122 acres Plant Site; Interplant haul of 225 truckloads per day (or 450 truck trips per day); 110 Existing Employees.
T3	County of Fresno	CUP 3666 -- Pete LoCastro CMEX	NWC of Friant Rd/Birkhead Ave	Plant Site	
T4	County of Fresno	VA 4155	SWC of Old Friant Rd/Birkhead Ave	Single-Family Dwelling Unit	1 SFDU
T5	County of Fresno	VA 3989	NEC of Old Friant Rd/Friant Road	Single-Family Dwelling Unit	1 SFDU
T6	County of Fresno	VA 4012	NWC of Auberry Road/Garonne Rd	Single-Family Dwelling Units	3 SFDU
T7	County of Fresno	DRA 4711	12329 N Armstrong Ave	Single-Family Dwelling Unit	1 SFDU
T8	County of Fresno	DRA 4668	9254 N Fowler Ave	Single-Family Dwelling Units	2 SFDU
T9	County of Fresno	DRA 4735	5388 E Shepherd Ave	Single-Family Dwelling Unit	1 SFDU

Notes:

SFDU = Single-Family Dwelling Units; MFDU = Multi-Family Dwelling Units; TSF = Thousand Square Feet; RM = Rooms.

6.0 PROJECT TRAFFIC

6.1 PROJECT TRIP GENERATION

The trip generation for the proposed project was developed using rates from the ITE *Trip Generation Manual* (11th Edition) for Land Use 210 – "Single-Family Detached Housing – Setting/Location General Urban/Suburban." Table 6.A summarizes the project trip generation. As shown in Table 6.A, the project is anticipated to generate 186 trips in the a.m. peak hour, 250 trips in the p.m. peak hour, and 2,508 daily trips.

6.2 PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

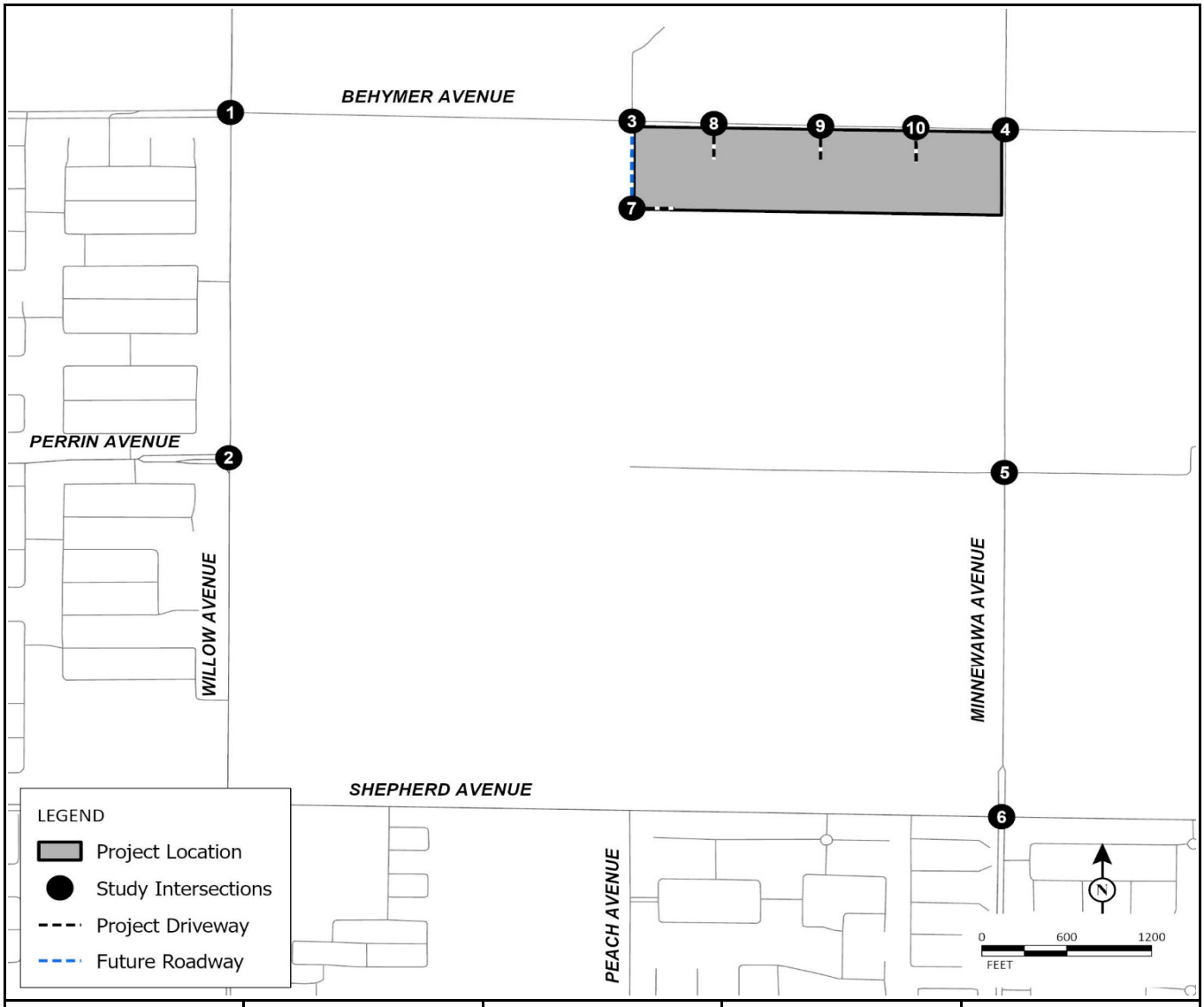
The project trip distribution was developed using select zone model runs obtained from the Fresno COG ABM. Appendix A includes the select zone model plots for the proposed project. This was further refined to reflect existing and future circulation network in the vicinity of the proposed project.

Currently, within the project vicinity, Peach Avenue, north of Shepherd Avenue, and Perrin Avenue east of Willow Avenue, are yet to be constructed. As such, it is estimated that this segment of Peach Avenue (between southern end of the project and Shepherd Avenue) along with Perrin Avenue east of Willow Avenue (between Willow Avenue and Peach Avenue) would be constructed along with other major developments within the area as part of the Heritage Grove Specific Plan Project envelop. However, since there is no determined timeline for these circulation improvements, two separate project trip distribution patterns were developed for the project, one for existing and near-term scenario, which reflects the existing circulation network in the project vicinity, and another for cumulative long-term scenario, which accounts for completion of Peach Avenue, Clovis Avenue and Perrin Avenue, among other circulation network improvements.

Additionally, as previously mentioned, upon completion of the adjacent residential projects south of the project limit, project trips may utilize the expanded circulation network to travel south and access Peach Avenue, Perrin Avenue or Minnewawa Avenue. However, as a conservative estimate since these developments are yet to be developed and the circulation network is not finalized, it was estimated that all project trips will be utilizing the four project driveways. This would provide a more conservative estimate in determination of operational efficiencies at the project driveways.

Figure 6-1 illustrates the existing and near-term project trip distribution. Figure 6-2 illustrates the cumulative scenario project trip distribution. The project trip assignment at the study area intersections is the product of the project trip generation and the corresponding trip distribution percentages. Figure 6-3 illustrates the existing and near-term conditions project trip assignment at the study area intersections. Figure 6-4 illustrates the cumulative conditions project trip assignment at the study area intersections.

6.3 LIST OF CHAPTER 6.0 FIGURES AND TABLES



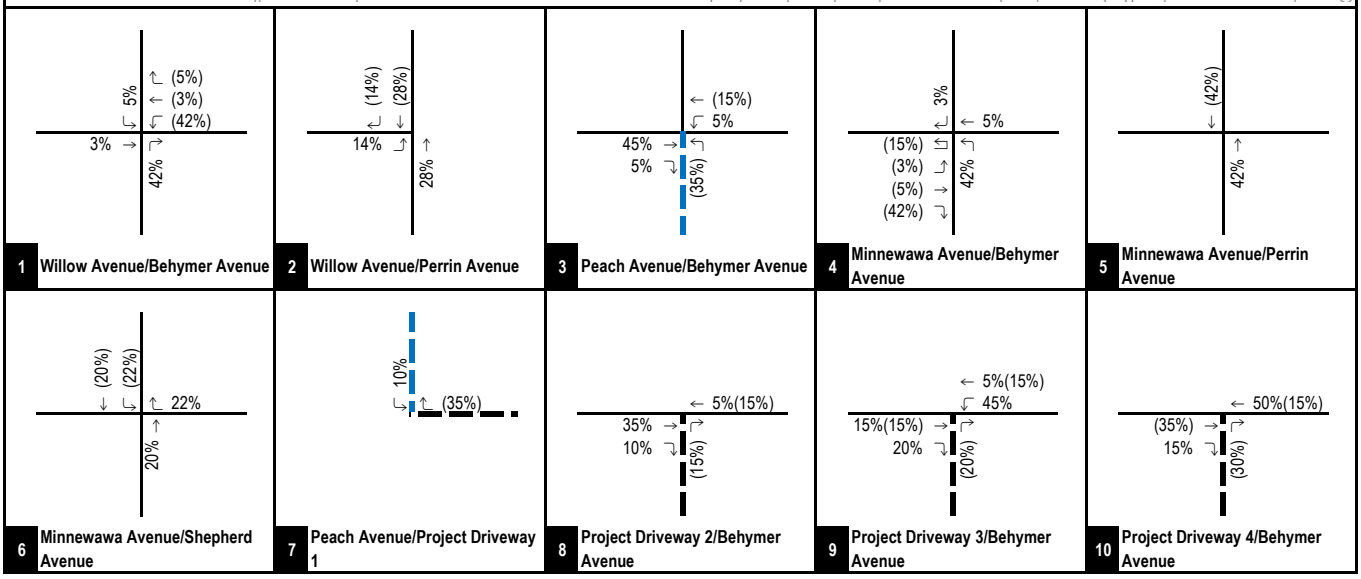


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FIGURE 6-1

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway
Future Roadway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Existing and Near-Term Project Trip Distribution

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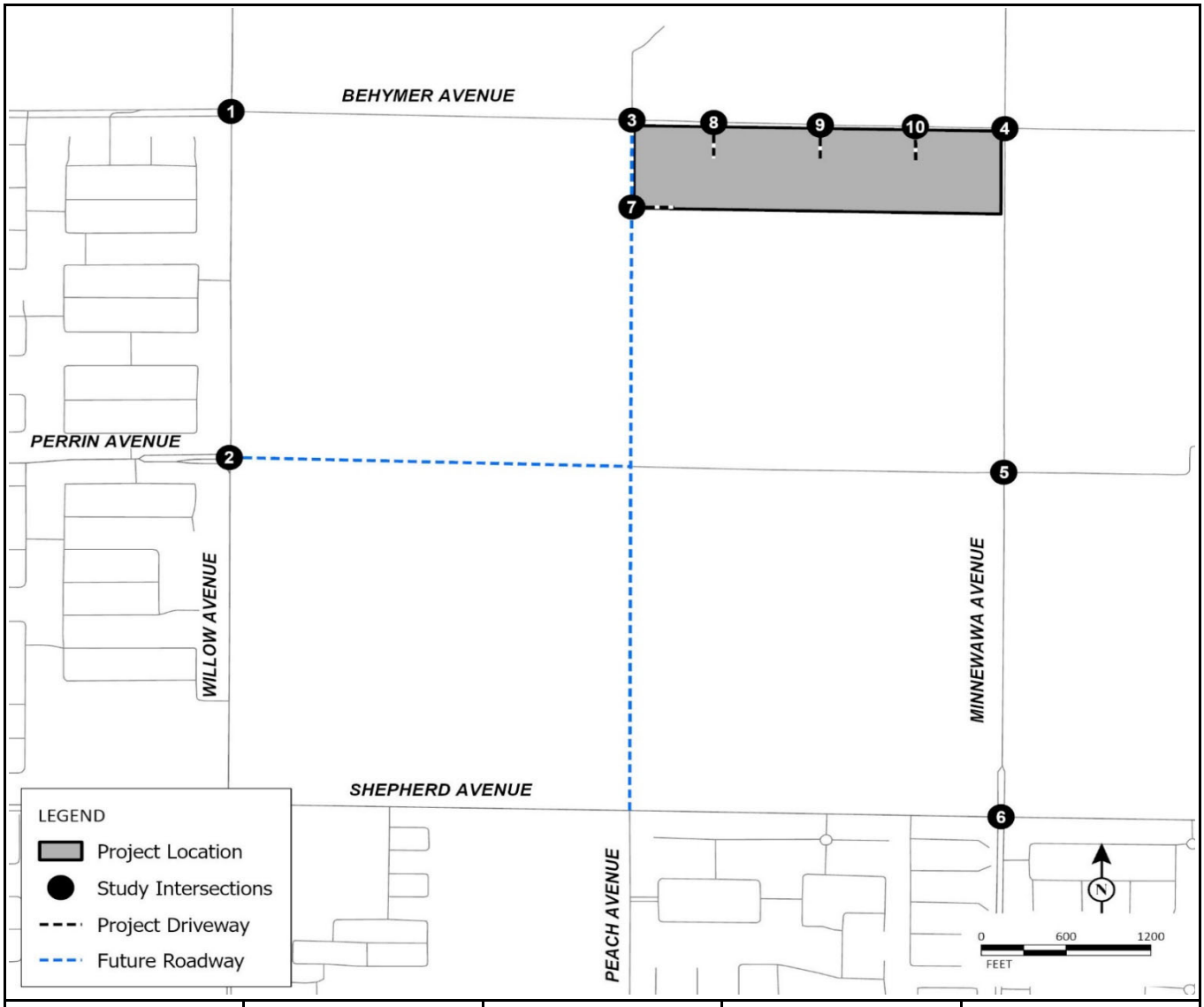

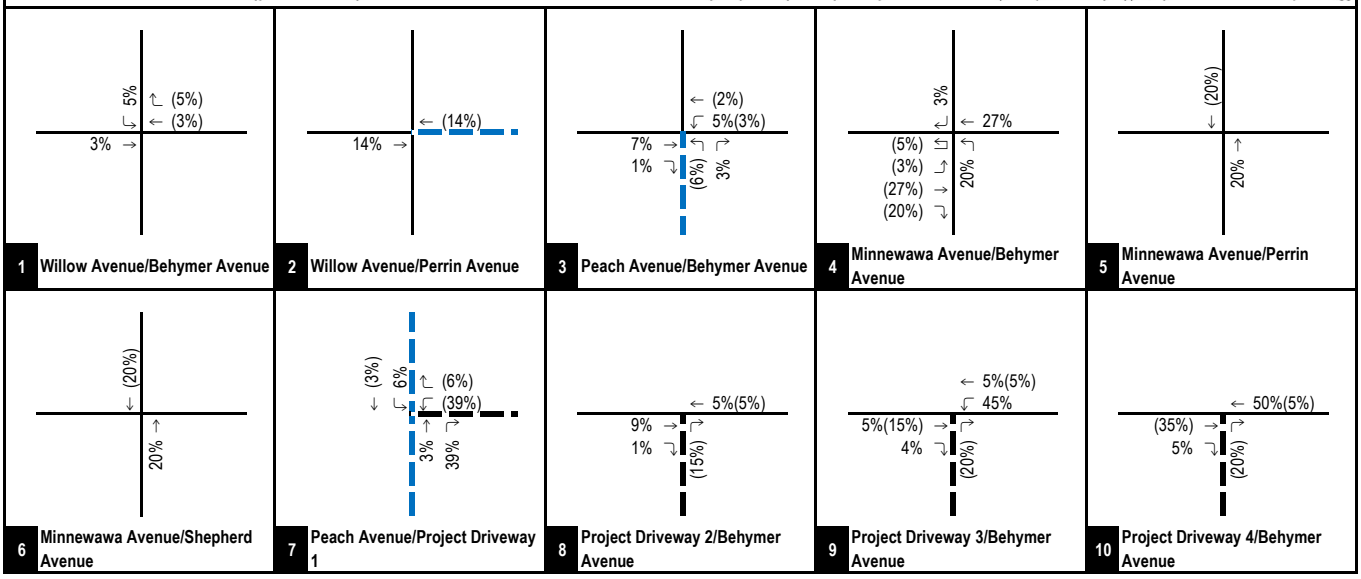

FIGURE 6-2

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XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway
Future Roadway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Cumulative Project Trip Distribution

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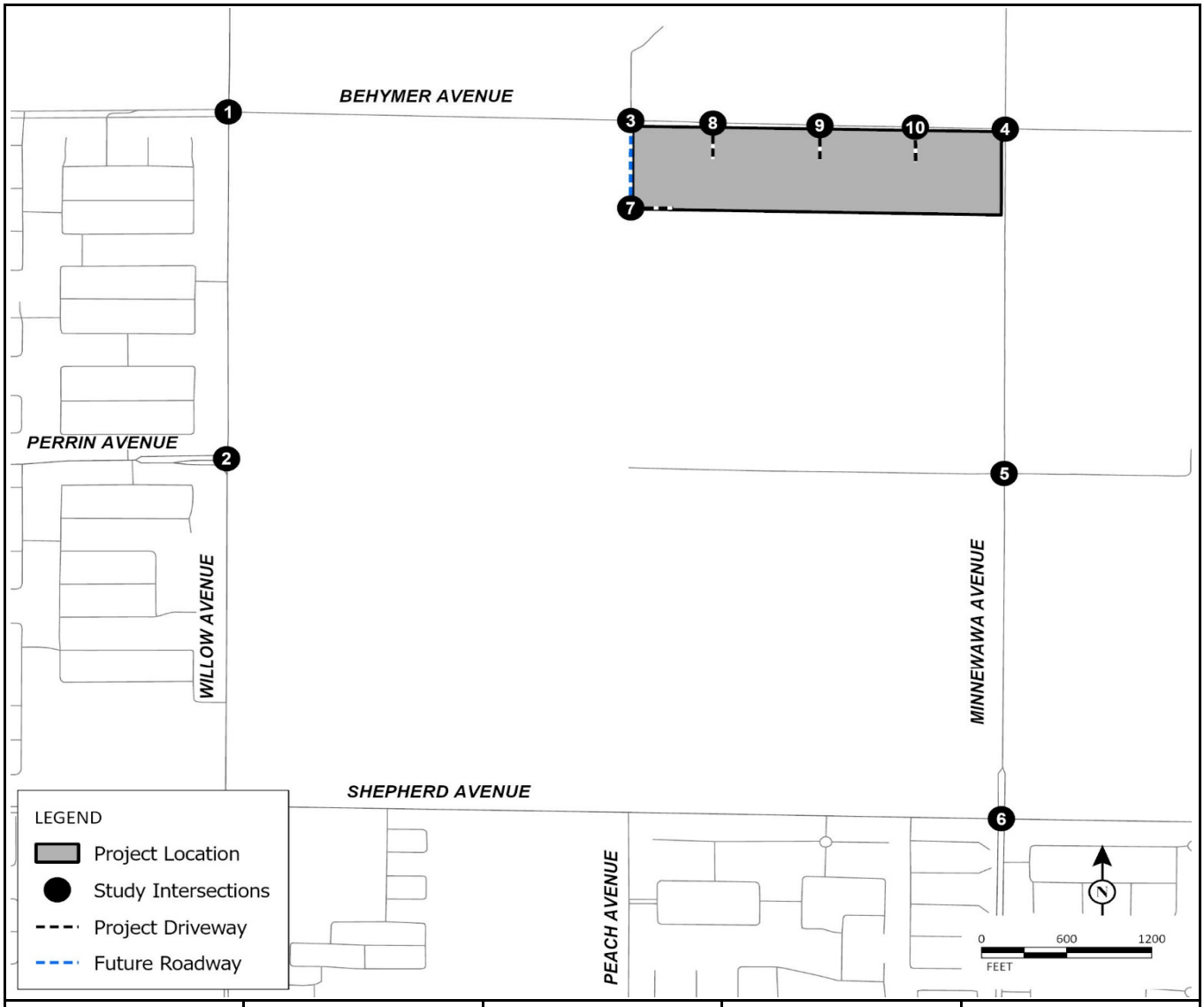

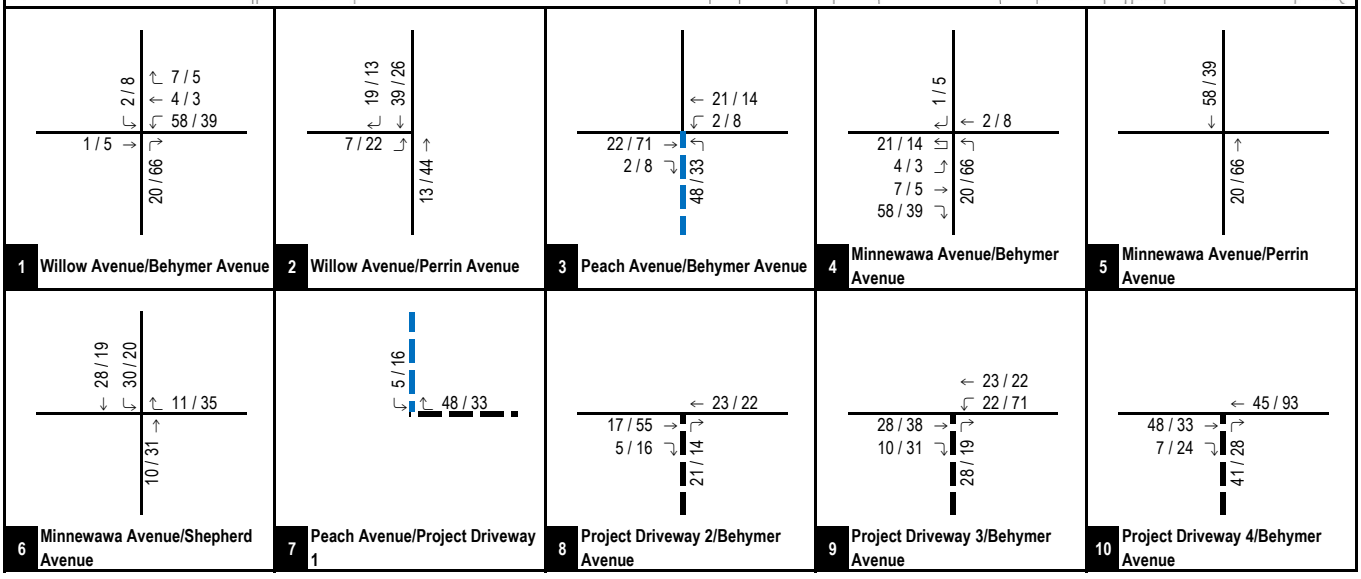

FIGURE 6-3

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XX / YY
AM / PM Peak Hour Trips
Project Driveway
Future Roadway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Existing and Near-Term Project Trip Assignment

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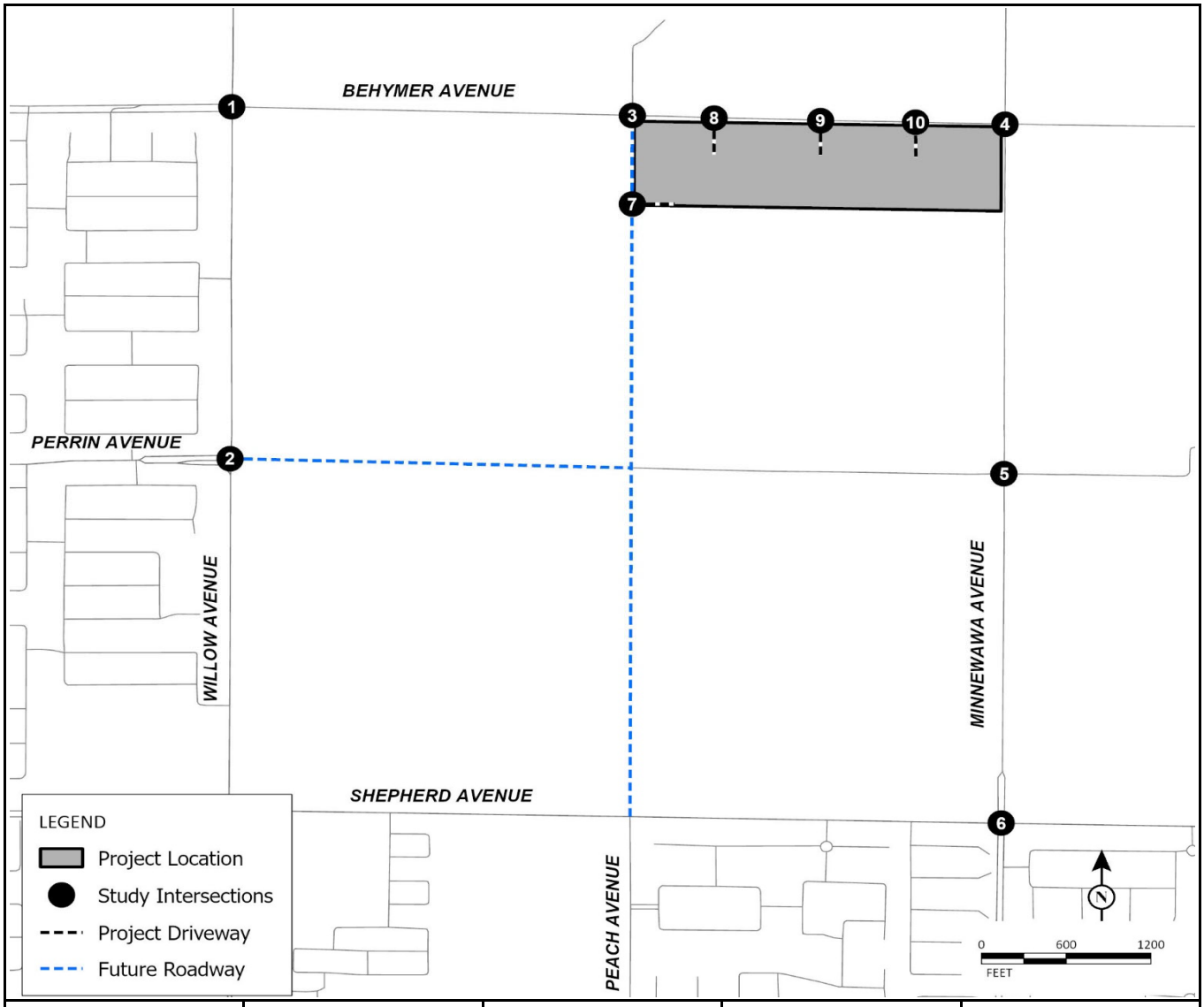

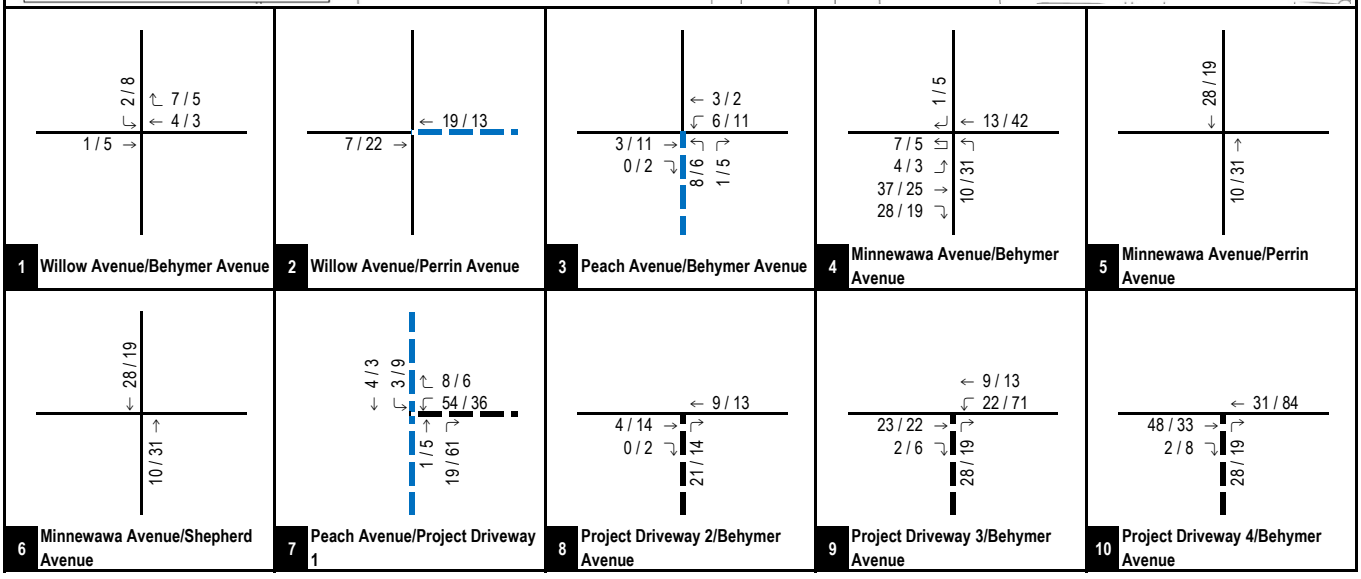

1 Willow Avenue/Behymer Avenue
2 Willow Avenue/Perrin Avenue
3 Peach Avenue/Behymer Avenue
4 Minnewawa Avenue/Behymer Avenue
5 Minnewawa Avenue/Perrin Avenue
6 Minnewawa Avenue/Shepherd Avenue
7 Peach Avenue/Project Driveway 1
8 Project Driveway 2/Behymer Avenue
9 Project Driveway 3/Behymer Avenue
10 Project Driveway 4/Behymer Avenue

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FIGURE 6-4

XX / YY
AM / PM Peak Hour Trips
Project Driveway
Future Roadway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Cumulative Project Trip Assignment

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Table 6.A - Project Trip Generation

Land Use	Units	A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
Single-Family Detached Housing	266 DU							
Trips/Unit[1]		0.18	0.52	0.70	0.59	0.35	0.94	9.43
Trip Generation		**48**	**138**	**186**	**157**	**93**	**250**	**2,508**

Notes:

DU = Dwelling Units

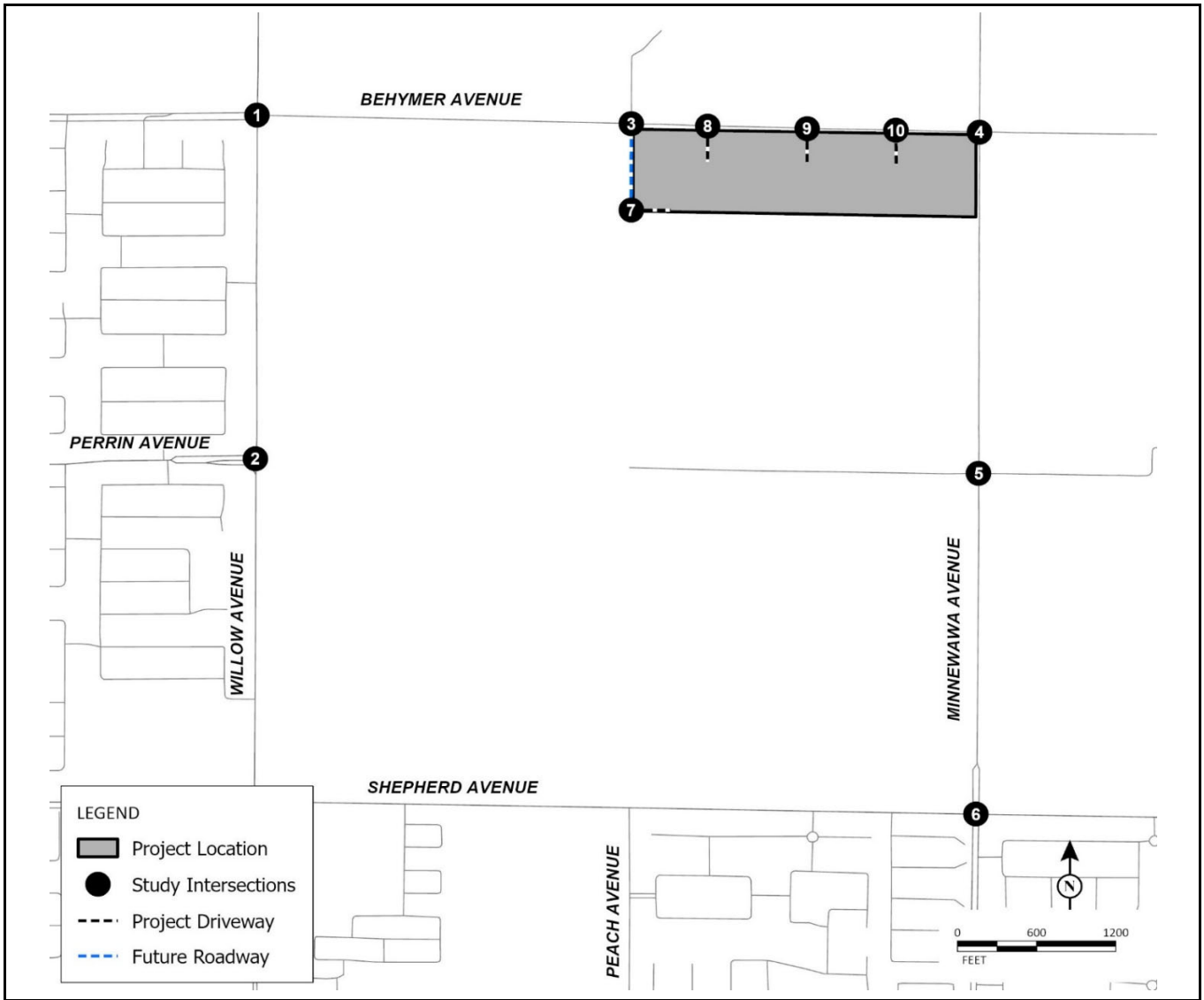
[1] Rates based on Land Use 210 - "Single-Family Detached Housing" from the Institute of Transportation Engineers (ITE)*Trip Generation Manual*, 11th Edition, Setting/Location - "General Urban/Suburban."

7.0 TRAFFIC VOLUMES FOR PLUS PROJECT SCENARIOS

Existing, near-term, and cumulative plus project traffic volumes were developed by adding project traffic to the traffic for the corresponding without project scenarios. Figures 7-1, 7-2 and 7-3 illustrate "plus project" peak-hour traffic volumes at study intersections under existing, near-term, and cumulative conditions, respectively.

Detailed volume development worksheets are included in Appendix D.

7.1 LIST OF CHAPTER 7.0 FIGURES



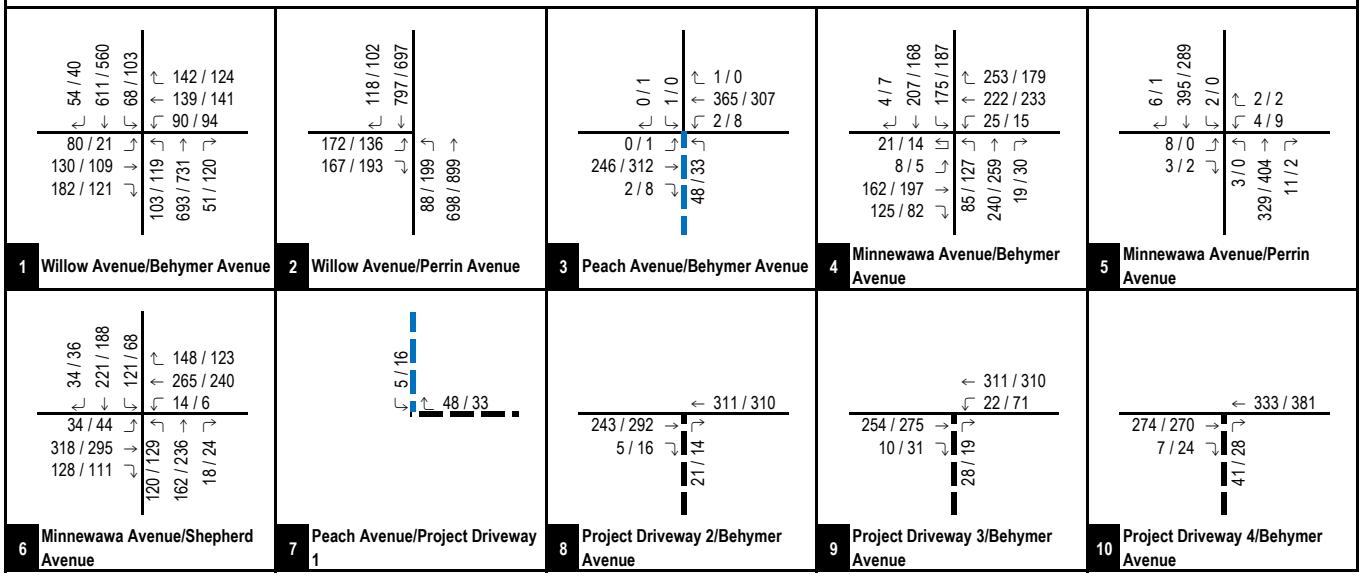
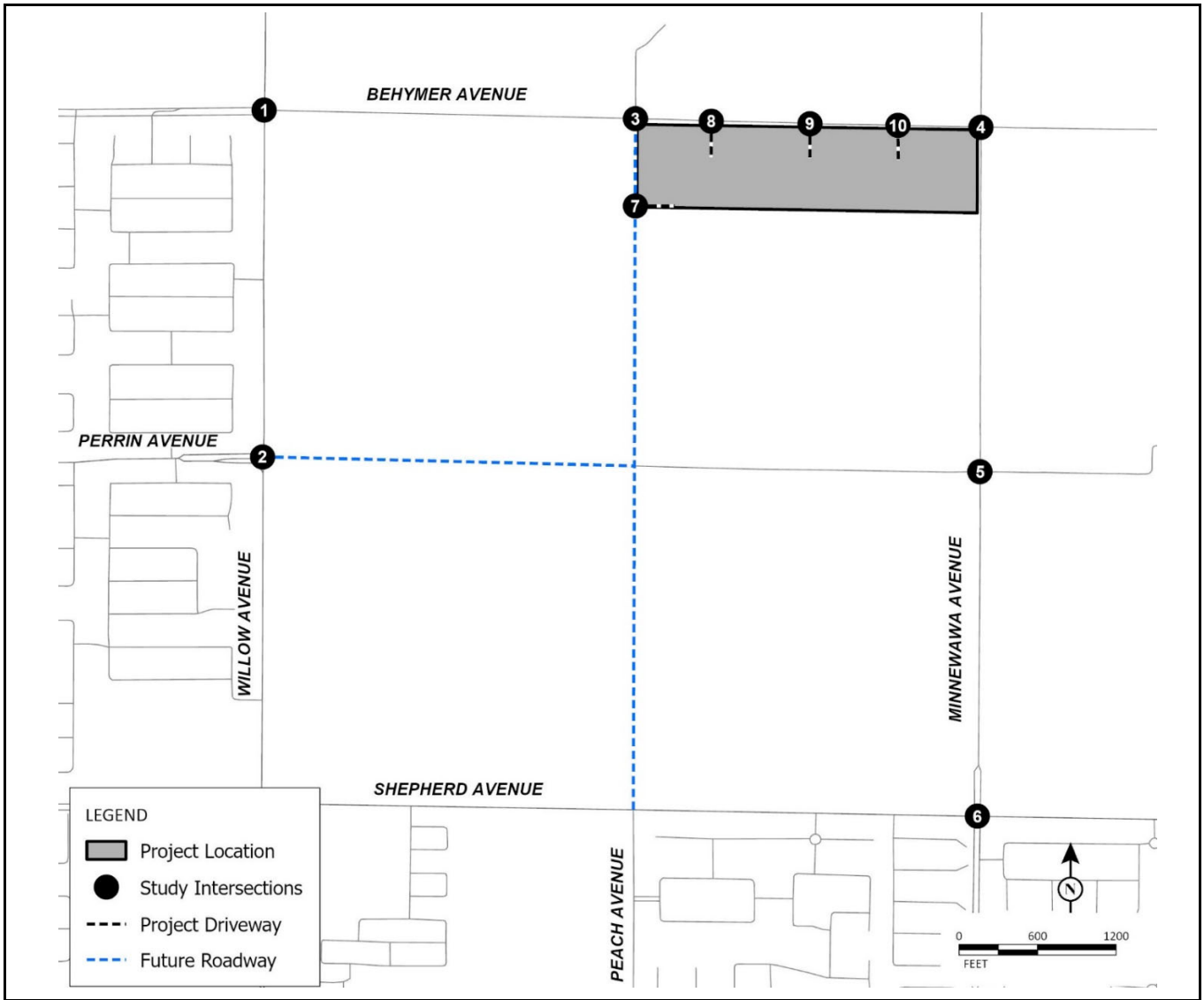


FIGURE 7-1

XXX / YYY
AM / PM Peak Hour Traffic Volumes

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Existing Plus Project Peak Hour Traffic Volumes



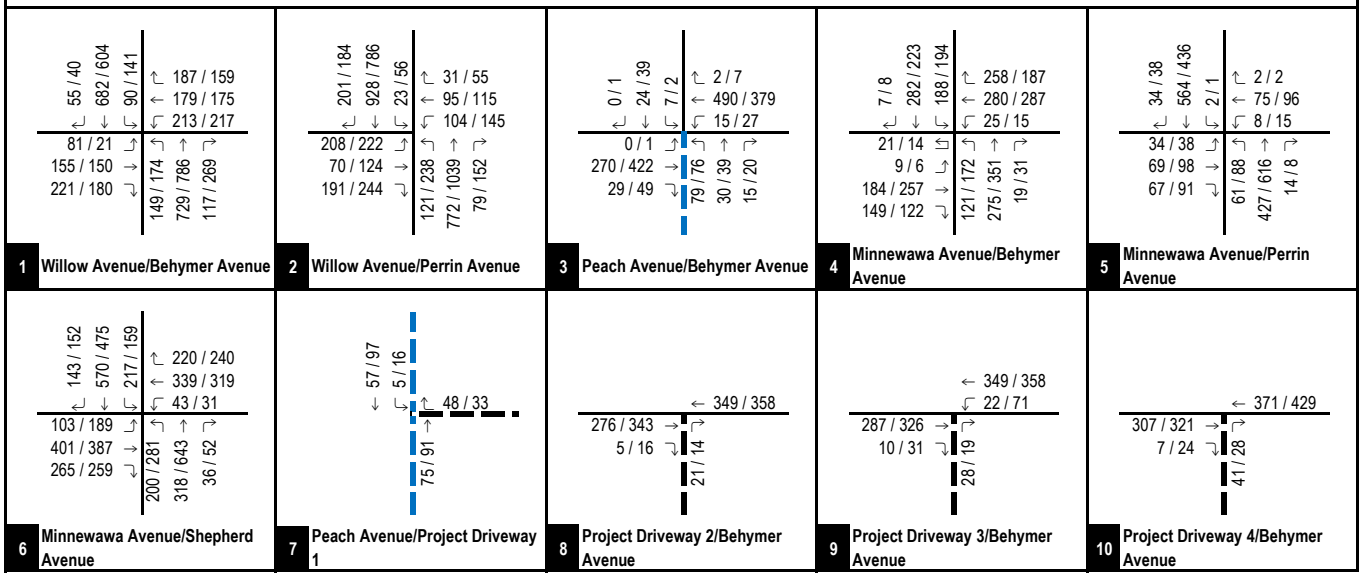


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FIGURE 7-2

XXXX / YYYY
AM / PM Peak Hour Traffic Volumes

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Near-Term (2028) Plus Project Peak Hour Traffic Volumes

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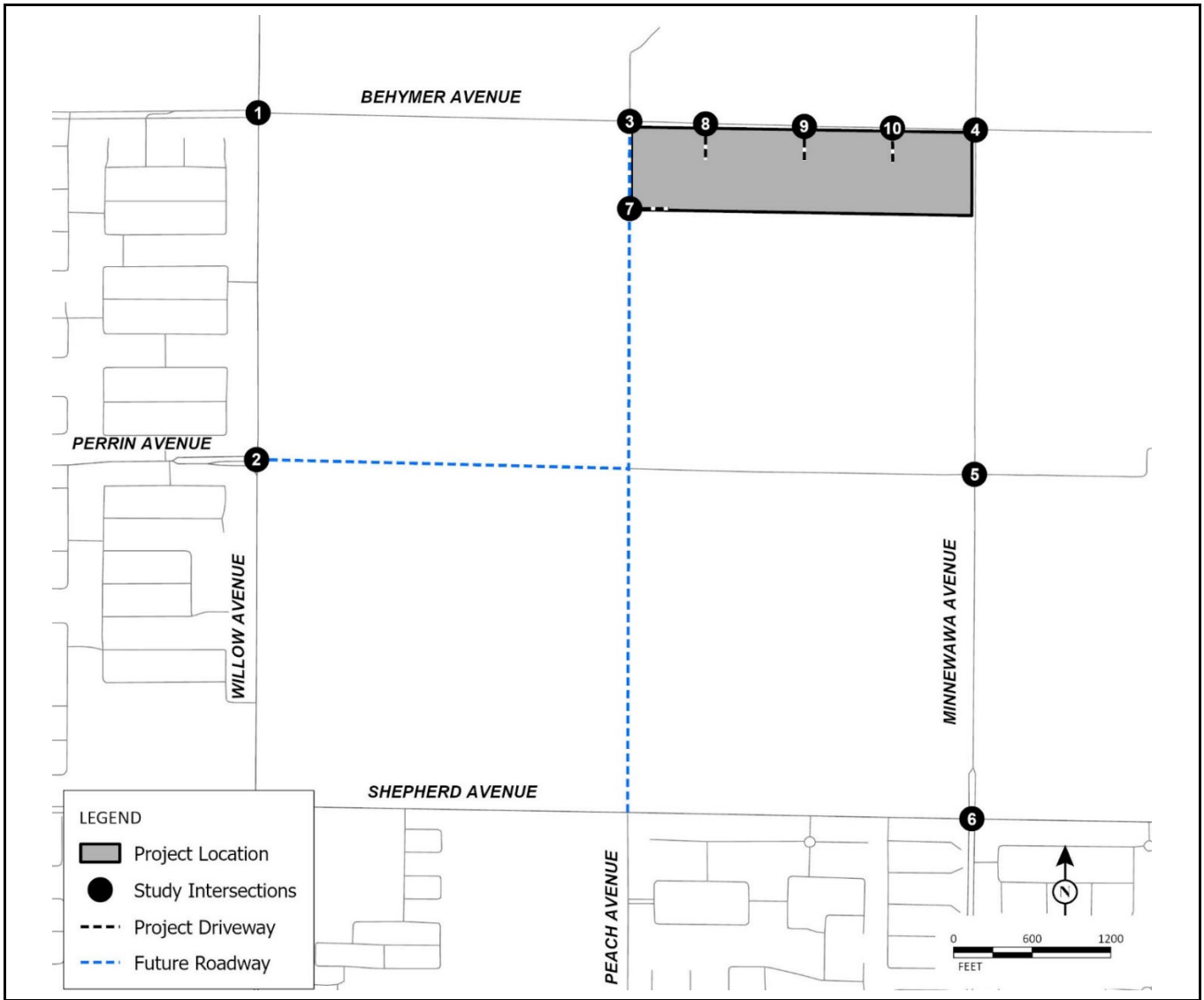

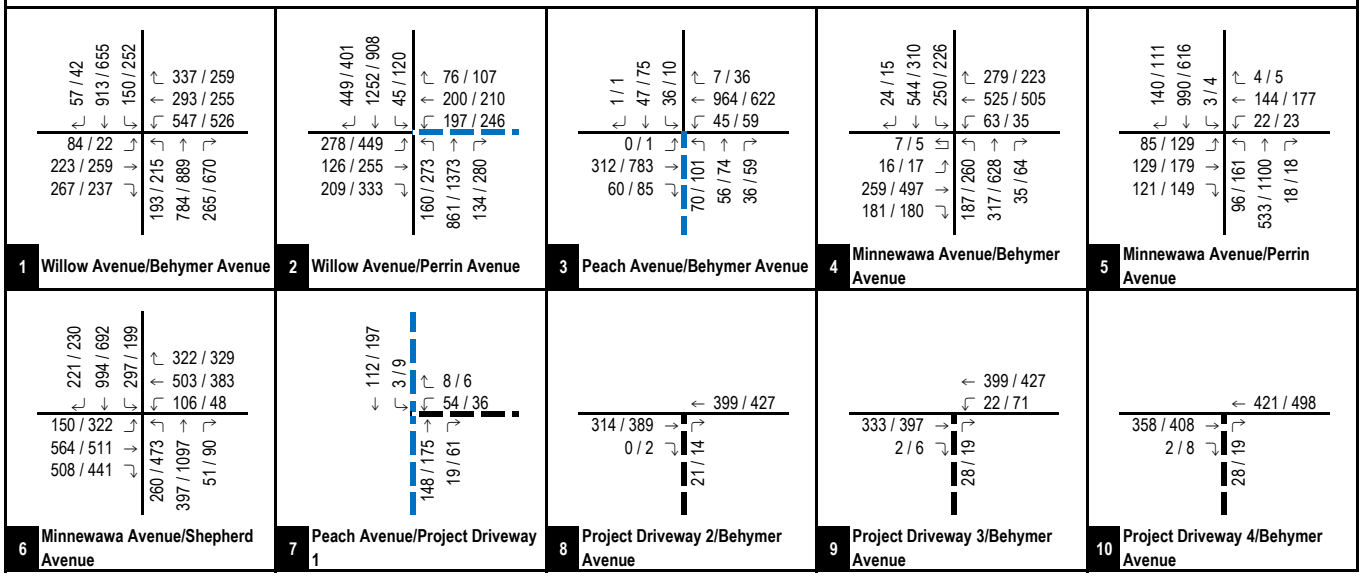

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FIGURE 7-3

XXXX / YYYY
AM / PM Peak Hour Traffic Volumes

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Cumulative (2046) Plus Project Peak Hour Traffic Volumes

8.0 INTERSECTION LEVELS OF SERVICE

8.1 EXISTING LEVELS OF SERVICE

An intersection LOS analysis was conducted for existing conditions using the methodologies previously discussed. Existing signal timing sheets were obtained from the City for all signalized analysis intersections. The signal timing sheets are included in Appendix C. It should be noted that the existing signal timings were utilized to analyze traffic operations under near-term and cumulative (2046) scenarios as a conservative approach. Table 8.A summarizes the results of this analysis and shows that the following intersection operates at an unsatisfactory LOS under existing conditions:

- Minnewawa Avenue/Behymer Avenue (a.m. and p.m. peak hours)

All other study intersections operate at a satisfactory LOS under existing conditions.

8.2 EXISTING PLUS PROJECT LEVELS OF SERVICE

Previously referenced Figure 4-2 illustrates existing plus project study area intersection geometrics and traffic control. Analysis of the existing plus project scenario is provided to identify direct project-related operational deficiency if the project were to be built and in operation today. This scenario eliminates the effects of ambient growth and other approved/pending projects and deals specifically with operational deficiencies only due to the project traffic.

An intersection LOS analysis was conducted for existing plus project conditions using the methodologies previously discussed. Table 8.A summarizes the results of this analysis and shows that the following intersection is forecasted to operate at an unsatisfactory LOS under existing plus project conditions:

- Minnewawa Avenue/Behymer Avenue (a.m. and p.m. peak hours)

All other study intersections are forecasted to operate at a satisfactory LOS under existing plus project conditions.

It should be noted that this intersection is currently operating at a deficient LOS under existing conditions. As such, the project will be adding to the existing deficiencies at this intersection.

8.3 NEAR-TERM (2028) PLUS PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for near-term plus project conditions using the methodologies previously discussed. Table 8.B summarizes the results of this analysis and shows that the following intersections are forecasted to operate at an unsatisfactory LOS under near-term plus project conditions:

- Peach Avenue/Behymer Avenue (p.m. peak hour only)
- Minnewawa Avenue/Behymer Avenue (a.m. and p.m. peak hours)

- Minnewawa Avenue/Perrin Avenue (a.m. and p.m. peak hours)

Based on the operational deficiency criteria stated in Section 3.2 of this TIA, the project is forecasted to create an operational deficiency at these intersections. All other study intersections are forecasted to operate at a satisfactory LOS under near-term plus project conditions.

8.4 CUMULATIVE (2046) WITHOUT PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for cumulative without project conditions using the methodologies previously discussed. Table 8.C summarizes the results of this analysis and shows that the following intersections are forecasted to operate at an unsatisfactory LOS under cumulative without project conditions:

- Willow Avenue/Behymer Avenue (a.m. and p.m. peak hours)
- Willow Avenue/Perrin Avenue (p.m. peak hour only)
- Peach Avenue/Behymer Avenue (a.m. and p.m. peak hours)
- Minnewawa Avenue/ Behymer Avenue (a.m. peak hour only)
- Minnewawa Avenue/Perrin Avenue (a.m. and p.m. peak hours)
- Minnewawa Avenue/Shepherd Avenue (a.m. and p.m. peak hours)

All other study intersections are forecasted to operate at a satisfactory LOS under cumulative (2046) without project conditions.

8.5 CUMULATIVE (2046) PLUS PROJECT LEVELS OF SERVICE

An intersection LOS analysis was conducted for cumulative plus project conditions using the methodologies previously discussed. Table 8.C summarizes the results of this analysis and shows that the following intersections are forecasted to operate at an unsatisfactory LOS under cumulative plus project conditions:

- Willow Avenue/Behymer Avenue (a.m. and p.m. peak hours)
- Willow Avenue/Perrin Avenue (p.m. peak hour only)
- Peach Avenue/Behymer Avenue (a.m. and p.m. peak hours)
- Minnewawa Avenue/ Behymer Avenue (a.m. peak hour only)
- Minnewawa Avenue/Perrin Avenue (a.m. and p.m. peak hours)
- Minnewawa Avenue/Shepherd Avenue (a.m. and p.m. peak hours)

Based on the operational deficiency criteria stated in Section 3.2 of this TIA, the project is forecasted to create an operational deficiency at these intersections. All other study intersections are forecasted to operate at a satisfactory LOS under cumulative plus project conditions.

It should be noted that all these 6 intersections are forecast to operate at a deficient LOS under cumulative (2046) without project conditions. As such, the project will be adding to the forecasted deficiencies at these intersections.

Detailed intersection LOS worksheets are included in Appendix E.

8.6 LIST OF CHAPTER 8.0 TABLES

LSA

Table 8.A - Existing Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Without Project						Plus Project					
				A.M. Peak Hour		P.M. Peak Hour				A.M. Peak Hour		P.M. Peak Hour		
			Control	Delay (sec.)	LOS	Delay (sec.)	LOS		Control	Delay (sec.)	LOS	Delay (sec.)	LOS	
1 . Willow Avenue/Behymer Avenue	Clovis/Fresno	D	Signal	24.8	C	25.0	C		Signal	25.7	C	25.8	C	
2 . Willow Avenue/Perrin Avenue	Clovis/Fresno	D	Signal	12.1	B	12.9	B		Signal	12.3	B	13.1	B	
3 . Peach Avenue/Behymer Avenue	Clovis	D	OWSC	15.2	C	9.9	A		TWSC	18.7	C	16.0	C	
4 . Minnewawa Avenue/Behymer Avenue	Clovis	D	AWSC	59.5	**F**	*	56.1	**F**	*	AWSC	89.2	**F**	*	91.1	**F**	*
5 . Minnewawa Avenue/Perrin Avenue	Clovis	D	TWSC	14.4	B		13.6	B		TWSC	15.8	C		15.3	C	
6 . Minnewawa Avenue/Shepherd Avenue	Clovis	D	Signal	21.2	C		20.0	B		Signal	21.9	C		20.8	C	
7 . Peach Avenue/Project Driveway 1	Clovis	D	-	*Future Intersection*			*Future Intersection*			OWSC	*No Conflicting Movements*			*No Conflicting Movements*		
8 . Project Driveway 2/Behymer Avenue	Clovis	D	-	*Future Intersection*			*Future Intersection*			TWSC	9.8	A		10.1	B	
9 . Project Driveway 3/Behymer Avenue	Clovis	D	-	*Future Intersection*			*Future Intersection*			TWSC	10.0	A		10.1	B	
10 . Project Driveway 4/Behymer Avenue	Clovis	D	-	*Future Intersection*			*Future Intersection*			TWSC	10.2	B		10.1	B	

Notes:

AWSC= All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

Table 8.B - Near-Term (2028) Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Plus Project				
			Control	A.M. Peak Hour		P.M. Peak Hour	
				Delay (sec.)	LOS	Delay (sec.)	LOS
1 . Willow Avenue/Behymer Avenue	Clovis/Fresno	D	Signal	32.6	C	33.4	C
2 . Willow Avenue/Perrin Avenue	Clovis/Fresno	D	Signal	25.2	C	34.3	C
3 . Peach Avenue/Behymer Avenue	Clovis	D	TWSC	30.8	D	42.9	**E** *
4 . Minnewawa Avenue/Behymer Avenue	Clovis	D	AWSC	170.6	**F** *	>200	**F** *
5 . Minnewawa Avenue/Perrin Avenue	Clovis	D	TWSC	198.4	**F** *	>200	**F** *
6 . Minnewawa Avenue/Shepherd Avenue	Clovis	D	Signal	48.3	D	52.6	D
7 . Peach Avenue/Project Driveway 1	Clovis	D	OWSC	8.9	A	8.9	A
8 . Project Driveway 2/Behymer Avenue	Clovis	D	TWSC	10.0	A	10.5	B
9 . Project Driveway 3/Behymer Avenue	Clovis	D	TWSC	10.2	B	10.5	B
10 . Project Driveway 4/Behymer Avenue	Clovis	D	TWSC	10.5	B	10.5	B

Notes:

AWSC= All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

Table 8.C - Cumulative (2046) Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Without Project						Plus Project					
				A.M. Peak Hour			P.M. Peak Hour			A.M. Peak Hour			P.M. Peak Hour	
			Control	Delay (sec.)	LOS		Delay (sec.)	LOS	Control	Delay (sec.)	LOS		Delay (sec.)	LOS
1 . Willow Avenue/Behymer Avenue	Clovis/Fresno	D	Signal	137.3	**F**	*	160.1	**F** *	Signal	139.2	**F**	*	158.6	**F** *
2 . Willow Avenue/Perrin Avenue	Clovis/Fresno	D	Signal	34.4	C		57.5	**E** *	Signal	35.3	D		57.9	**E** *
3 . Peach Avenue/Behymer Avenue	Clovis	D	OWSC	>200	**F**	*	>200	**F** *	TWSC	>200	**F**	*	>200	**F** *
4 . Minnewawa Avenue/Behymer Avenue	Clovis	D	AWSC	>200	**F**	*	>200	**F** *	AWSC	>200	**F**	*	>200	**F** *
5 . Minnewawa Avenue/Perrin Avenue	Clovis	D	TWSC	>200	**F**	*	>200	**F** *	TWSC	>200	**F**	*	>200	**F** *
6 . Minnewawa Avenue/Shepherd Avenue	Clovis	D	Signal	175.8	**F**	*	>200	**F** *	Signal	183.7	**F**	*	>200	**F** *
7 . Peach Avenue/Project Driveway 1	Clovis	D	-	*Future Intersection*			*Future Intersection*		OWSC	10.6	B		11.7	B
8 . Project Driveway 2/Behymer Avenue	Clovis	D	-	*Future Intersection*			*Future Intersection*		TWSC	10.3	B		10.9	B
9 . Project Driveway 3/Behymer Avenue	Clovis	D	-	*Future Intersection*			*Future Intersection*		TWSC	10.5	B		11.0	B
10 . Project Driveway 4/Behymer Avenue	Clovis	D	-	*Future Intersection*			*Future Intersection*		TWSC	10.7	B		11.1	B

Notes:

AWSC= All-Way Stop Control; OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

9.0 SIGNAL WARRANT ANALYSIS

As recommended during the scoping agreement process, a signal warrant analysis was conducted at study intersections where installing a signal could be an appropriate and potential operational improvement measure. A Peak Hour Warrant (Warrant 3) was conducted for such locations. Peak hour approach volumes for the study intersections were examined to determine whether signalization is warranted per the criteria defined in the latest version California supplement of the *Manual on Uniform Traffic Control Devices* (CA-MUTCD). Following is a brief summary of signal warrant analysis:

9.1 PEACH AVENUE/BEHYMER AVENUE

Figures 9-1 and Figure 9-2 illustrate the Warrant 3 (Peak Hour) for this intersection under near-term and cumulative year conditions, respectively. As shown in these figures, this intersection does not meet the signal warrant under near-term conditions. However, it does meet the signal warrant under cumulative conditions. As such, a signal is warranted at this location.

9.2 MINNEWAWA AVENUE/BEHYMER AVENUE

Figures 9-3, Figure 9-4, and Figure 9-5 illustrate the Warrant 3 (Peak Hour) for this intersection under existing, near-term and cumulative conditions, respectively. As shown in these figures, this intersection does meet the signal warrant under existing, near-term and cumulative conditions. As such, a signal is warranted at this location.

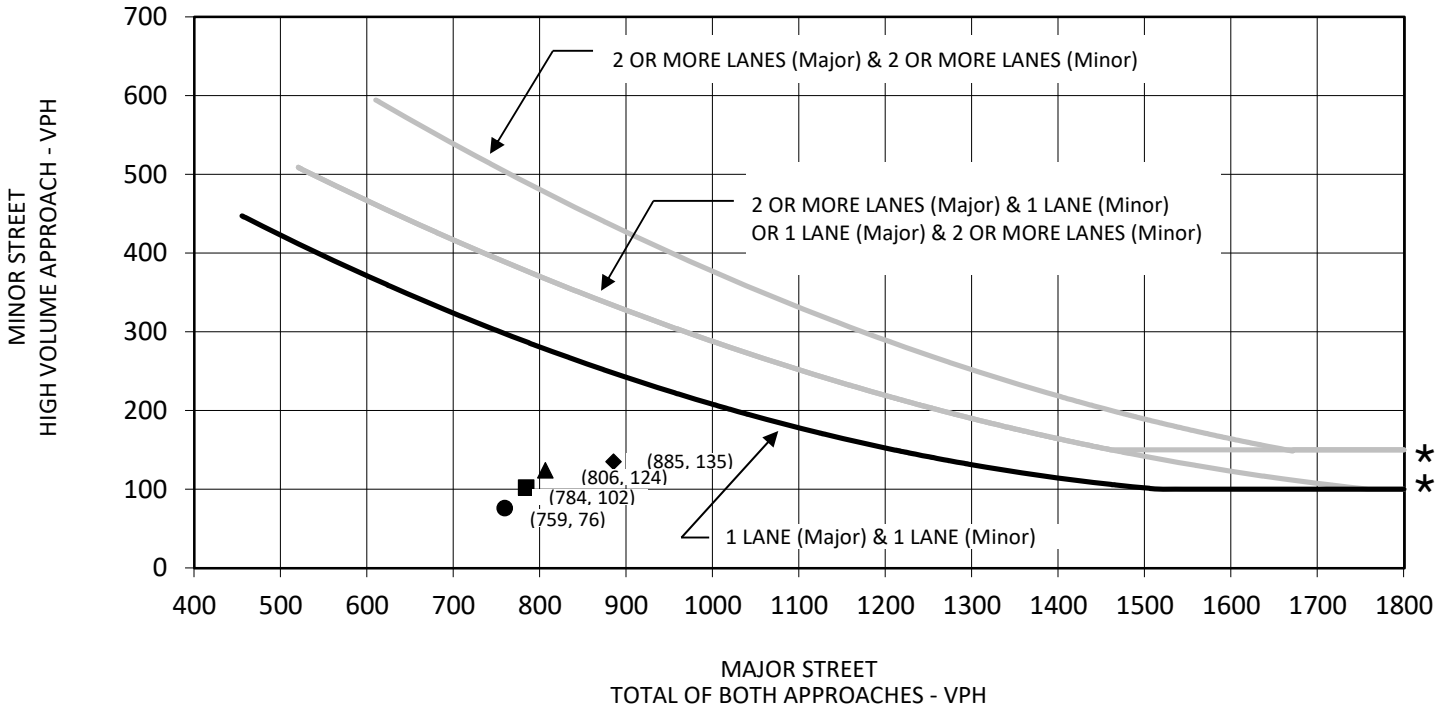
9.3 MINNEWAWA AVENUE/PERRIN AVENUE

Figures 9-6 and Figure 9-7 illustrate the Warrant 3 (Peak Hour) for this intersection under near-term and cumulative year conditions, respectively. As shown in these figures, this intersection does meet the signal warrant under near-term and cumulative year conditions. As such, a signal is warranted at this location.

9.4 LIST OF CHAPTER 9.0 FIGURES

- Figure 9-1: Warrant 3: Peak Hour – Peach Avenue/Behymer Avenue – Near-Term Conditions
- Figure 9-2: Warrant 3: Peak Hour – Peach Avenue/Behymer Avenue – Cumulative Conditions
- Figure 9-3: Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Existing Conditions
- Figure 9-4: Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Near-Term Conditions
- Figure 9-5: Warrant 3: Peak Hour – Minnewawa Avenue/Behymer Avenue – Cumulative Conditions
- Figure 9-6: Warrant 3: Peak Hour – Minnewawa Avenue/Perrin Avenue – Near-Term Conditions
- Figure 9-7: Warrant 3: Peak Hour – Minnewawa Avenue/Perrin Avenue – Cumulative Conditions

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

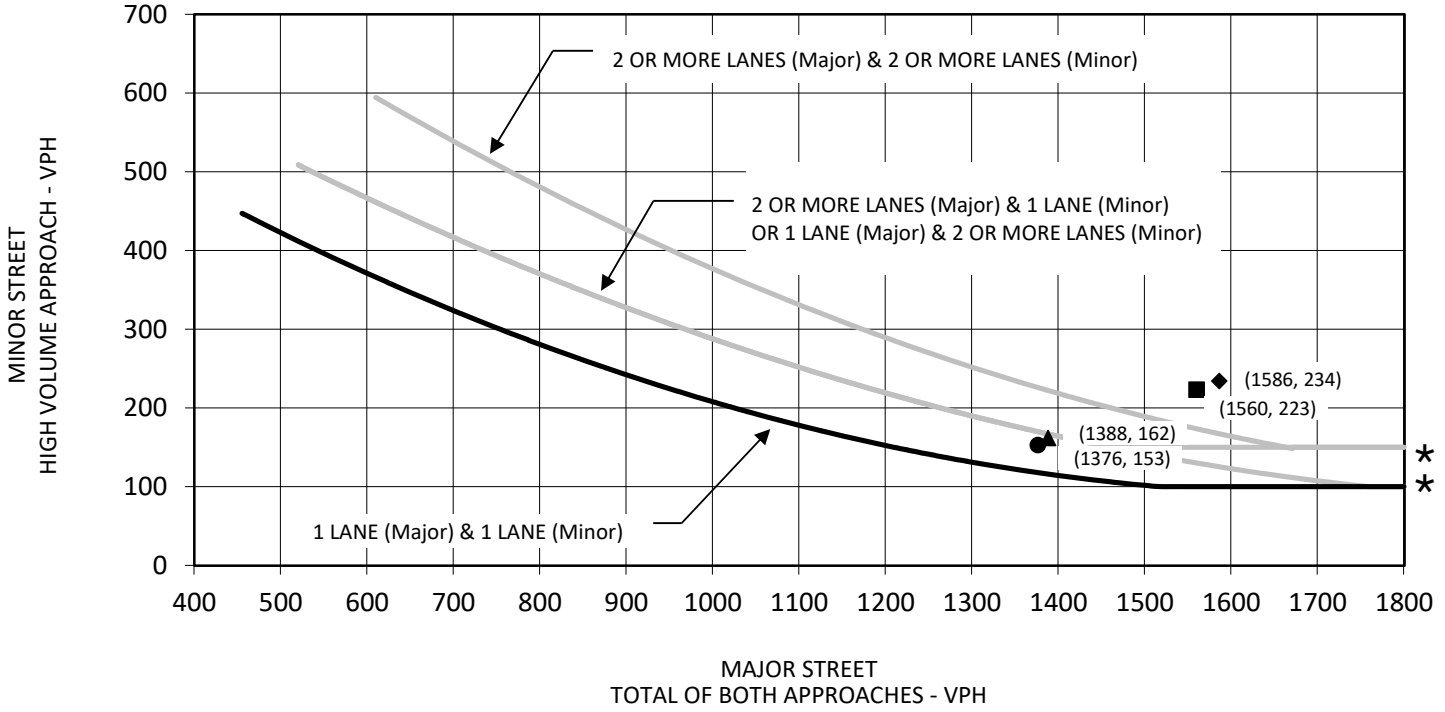
FIGURE 9-1

LSA

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

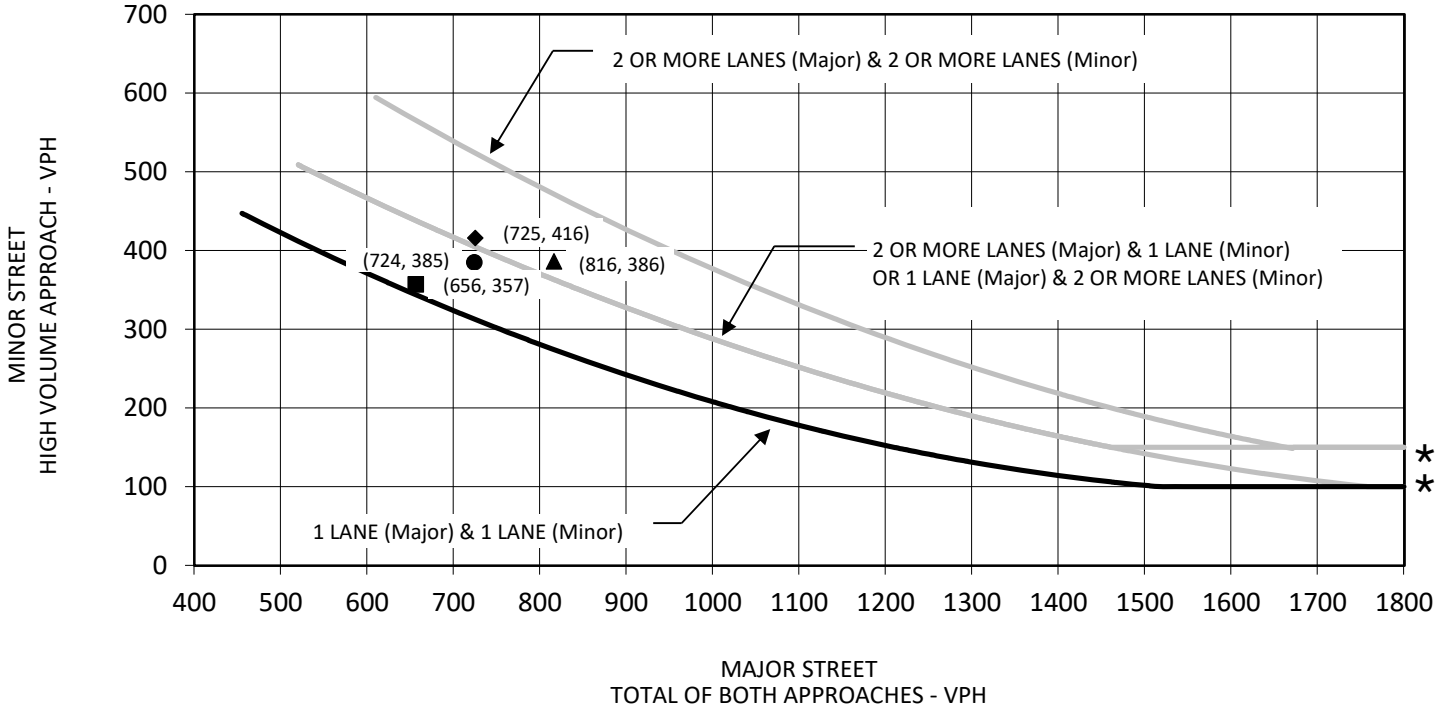
LSA

FIGURE 9-2

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

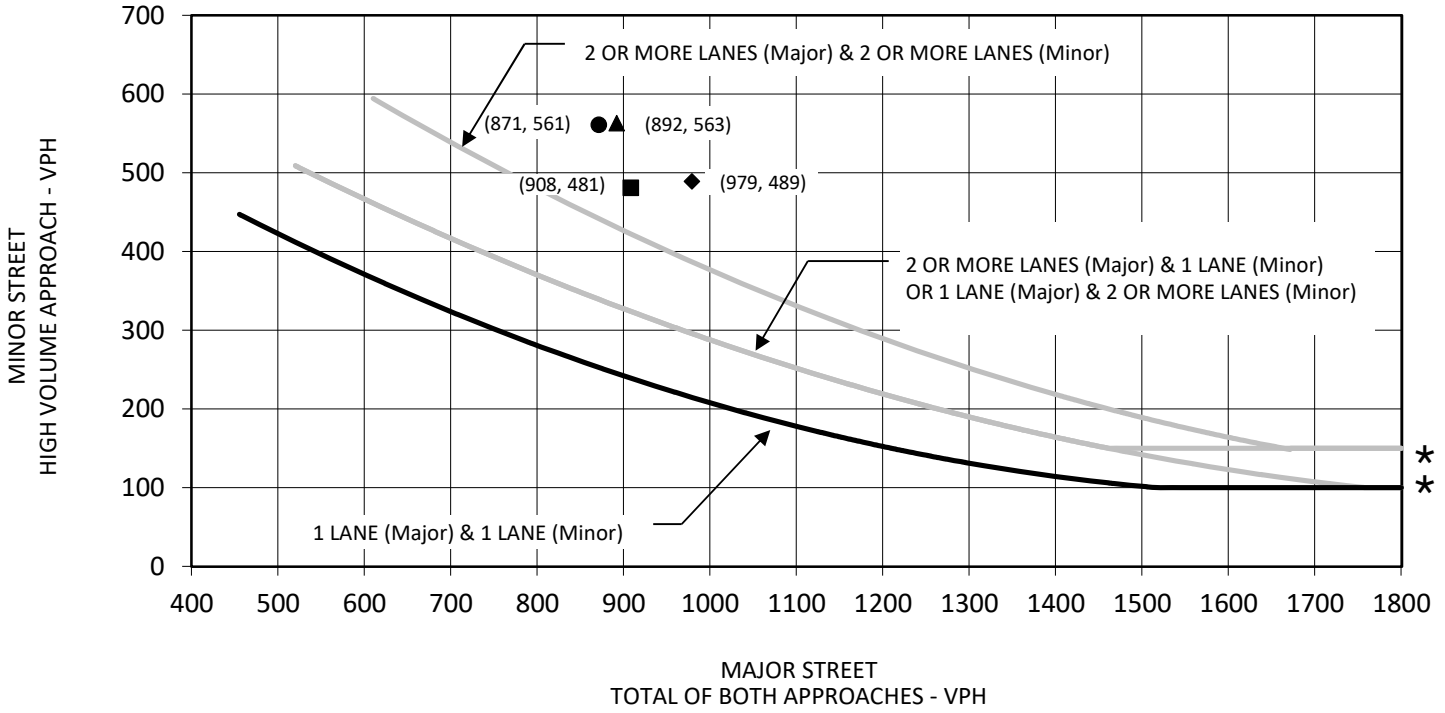
LSA

FIGURE 9-3

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

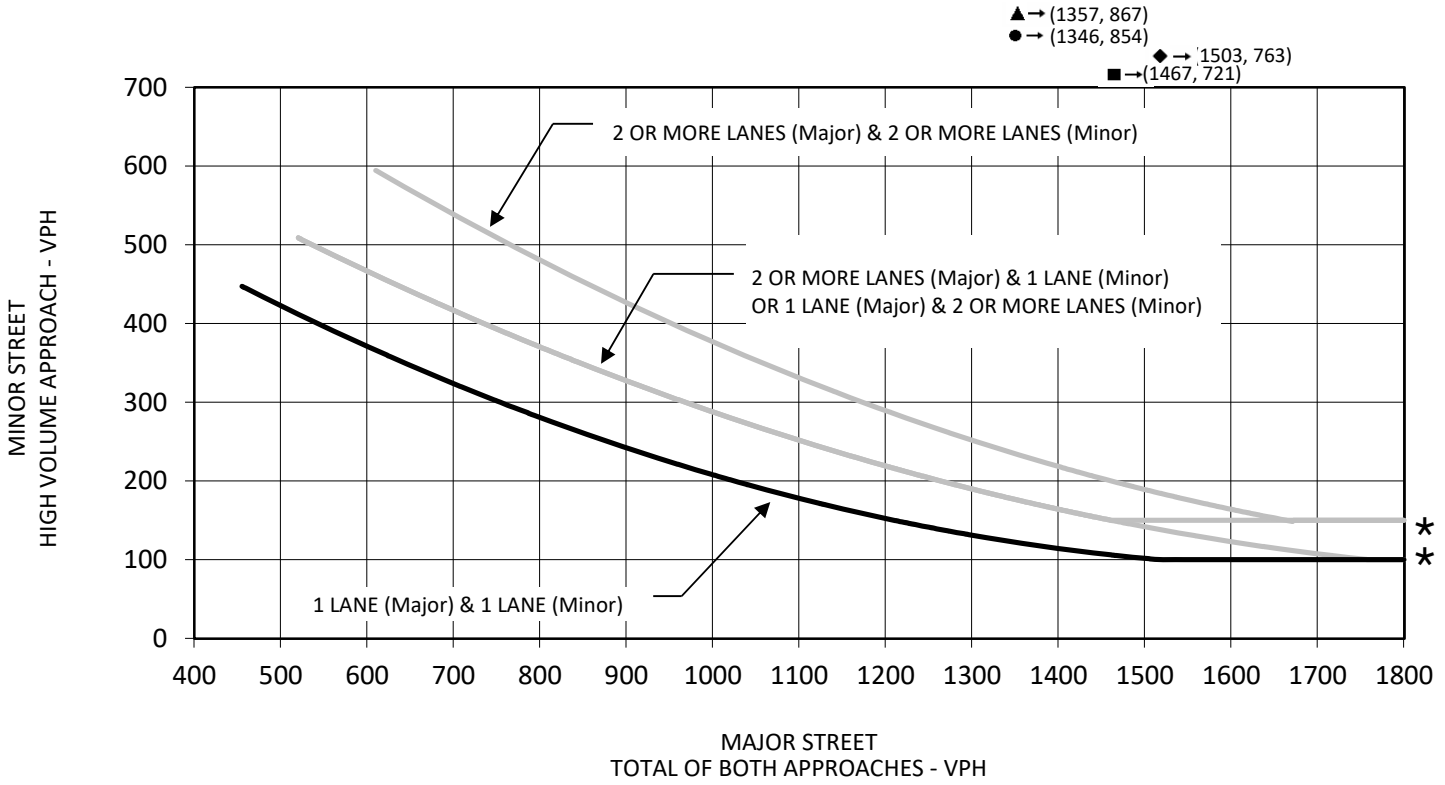
FIGURE 9-4

LSA

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

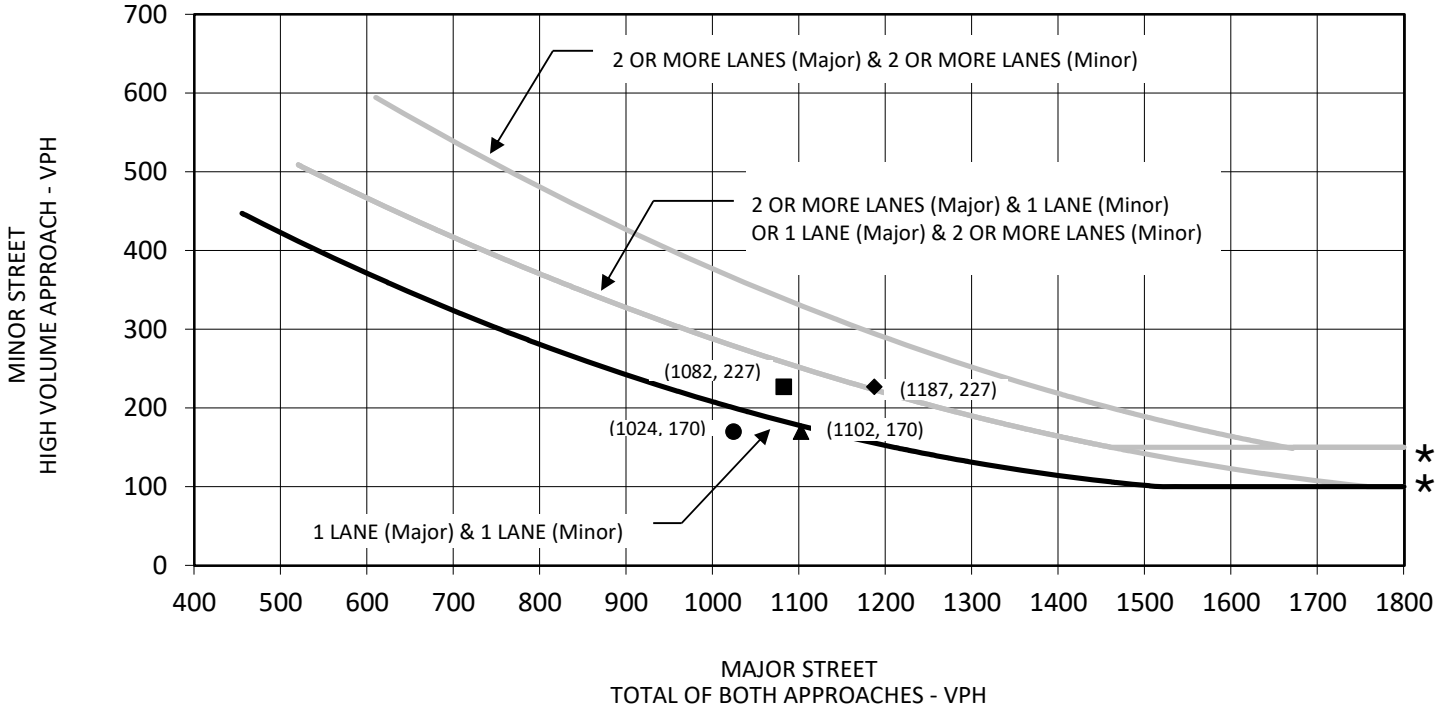
FIGURE 9-5

LSA

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

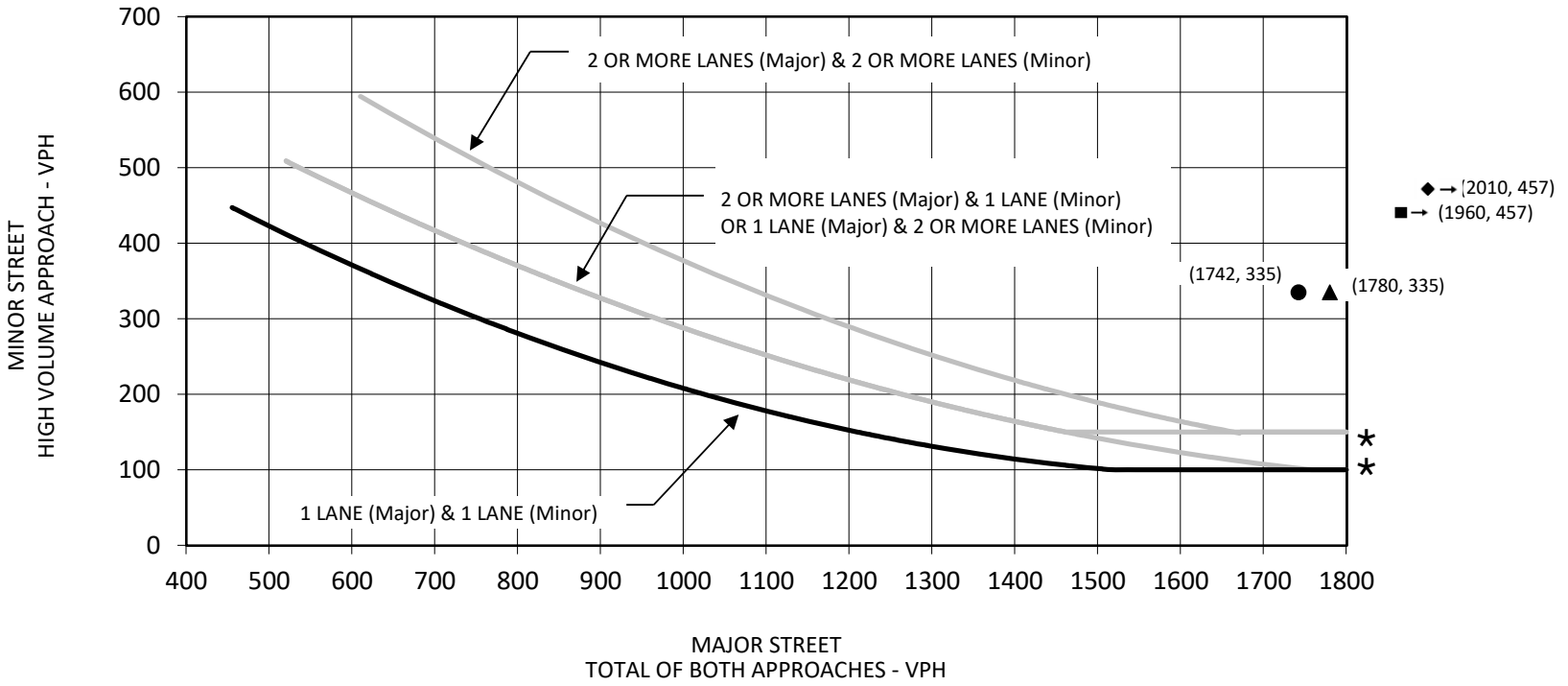
FIGURE 9-6

LSA

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

WARRANT 3, PEAK HOUR



* 150 VPH applies as the lower threshold volume for a minor street approach with two or more lanes and 100 VPH applies as the lower threshold volume for a minor street approaching with one lane.

LSA

FIGURE 9-7

● No Project AM Peak Hour
▲ With Project AM Peak Hour
■ No Project PM Peak Hour
◆ With Project PM Peak Hour

SOURCE: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FIGURE 4C-3

10.0 CIRCULATION IMPROVEMENTS AND FUNDING SOURCES

10.1 RECOMMENDED IMPROVEMENTS

Improvements have been recommended at study intersections where an operational deficiency has been identified based on the results of the LOS analysis. Table 10.A summarizes the recommended improvements for study intersections for all analysis scenarios. Tables 10.B, 10.C, and 10.D summarize the post-improvement intersection LOS under existing, near-term, and cumulative conditions, respectively. Detailed LOS worksheets are included in Appendix E. Figures 10-1, 10-2, and 10-3 illustrate the with recommended improvements intersection geometrics and traffic control under existing, near-term, and cumulative conditions, respectively.

It should be noted that peak-hour signal warrant analyses have been conducted for the intersections where a signal has been proposed. As such, a signal was only recommended as an improvement if it meets the peak-hour signal warrant.

10.2 FUNDING SOURCES AND MECHANISMS

Where there is a funding mechanism (fee program) for the recommended improvements, payment into the fee program would be considered sufficient project obligation to alleviate project-related operational deficiencies. At study locations where the addition of project traffic creates an operational deficiency (existing plus project conditions) and there is no funding mechanism in place, the project will be responsible for the implementation of the improvement. At locations where the project adds to or creates a forecast deficiency and there is no funding mechanism in place, the project is responsible for its fair-share payment.

10.2.1 City of Clovis Development Impact Fee Program and Operations

Several recommended improvements are part of City of Clovis operations or Clovis Development Impact Fee (DIF) Program. As such, improvements that proposes optimizing the signal timings or modifications of existing signal operations only would be implemented by City of Clovis operations. Additionally, improvements that are included in the City's DIF program, the project will be paying into this fee program for these improvements. The City currently have three mechanisms within its DIF program which will be responsible for these improvements. Following is a summary of these three mechanisms within the City's DIF program:

- **Traffic Signal Fee:** The Traffic Signal fee pays for the construction and financing of those certain planned traffic signals at the intersection of Major Streets and the interconnecting fiber optic system.
- **Outside Travel Lane Fee:** The Outside Travel Lane fee pays for the construction and financing of those certain planned travel lanes of a Major Street that are located between the frontage improvements and the Center Travel Lanes.
- **Center Travel Lane Fee:** The Center Travel Lane fee pays for the construction and financing of those certain planned travel lanes of a Major Street that are located within the median area. The fee also includes the adjacent travel lane on roads with 4 lanes or less, or the 2 adjacent lanes on 6-lane roads.

10.2.2 Fresno County Regional Transportation Mitigation Fee Program

The Fresno County Regional Transportation Mitigation Fee (RTMF) was created to fulfill one of the terms of the Measure 'C' Extension ballot measure, which was approved by Fresno County voters in 2006. The RTMF became effective on January 1, 2010. The RTMF is "intended to ensure that future development contributes to its fair share towards the cost of infrastructure to mitigate the cumulative, indirect regional transportation impacts of new growth in a manner consistent with the provisions of the State of California Mitigation Fee Act". The fees help fund improvements needed to maintain the target level of service in the face of higher traffic volumes brought on by new developments. As such, any new development within Fresno County, including developments within the City are required to pay the RTMF fee based on the adopted fee structure. The project will also be paying the RTMF fee which will help fund improvements and maintenance of the regional roadway network, specifically improvements under Caltrans jurisdiction. However, within the study area none of the intersections are under Caltrans jurisdiction.

10.2.3 Project Fair Share

In the absence of a fee program where the project has an impact on the roadway network, the project will pay its respective fair share for the proposed improvements. The project's fair share has been calculated based on project traffic as a percentage of total growth of existing traffic plus project volumes. However, none of the improvements require a fair share payment. Table 10.E summarizes the recommended improvement for the deficient intersections and the corresponding funding mechanism (Clovis Operations and Development Impact Fee).

10.3 LIST OF CHAPTER 10.0 FIGURES AND TABLES

- Figure 10-1: Existing Plus Project with Improvements Study Intersection Geometrics and Traffic Control
- Figure 10-2: Near-Term (2028) Plus Project with Improvements Study Intersection Geometrics and Traffic Control
- Figure 10-3: Cumulative (2046) Plus Project with Improvements Study Intersection Geometrics and Traffic Control
- Table 10.A: Recommended Improvements for Intersections
- Table 10.B: Existing Plus Project with Recommended Improvements Intersection Levels of Service
- Table 10.C: Near-Term (2028) Plus Project with Recommended Improvements Intersection Levels of Service
- Table 10.D: Cumulative (2046) Plus Project with Improvements with Recommended Improvements Intersection Levels of Service
- Table 10.E: Intersection Improvement Funding Mechanism

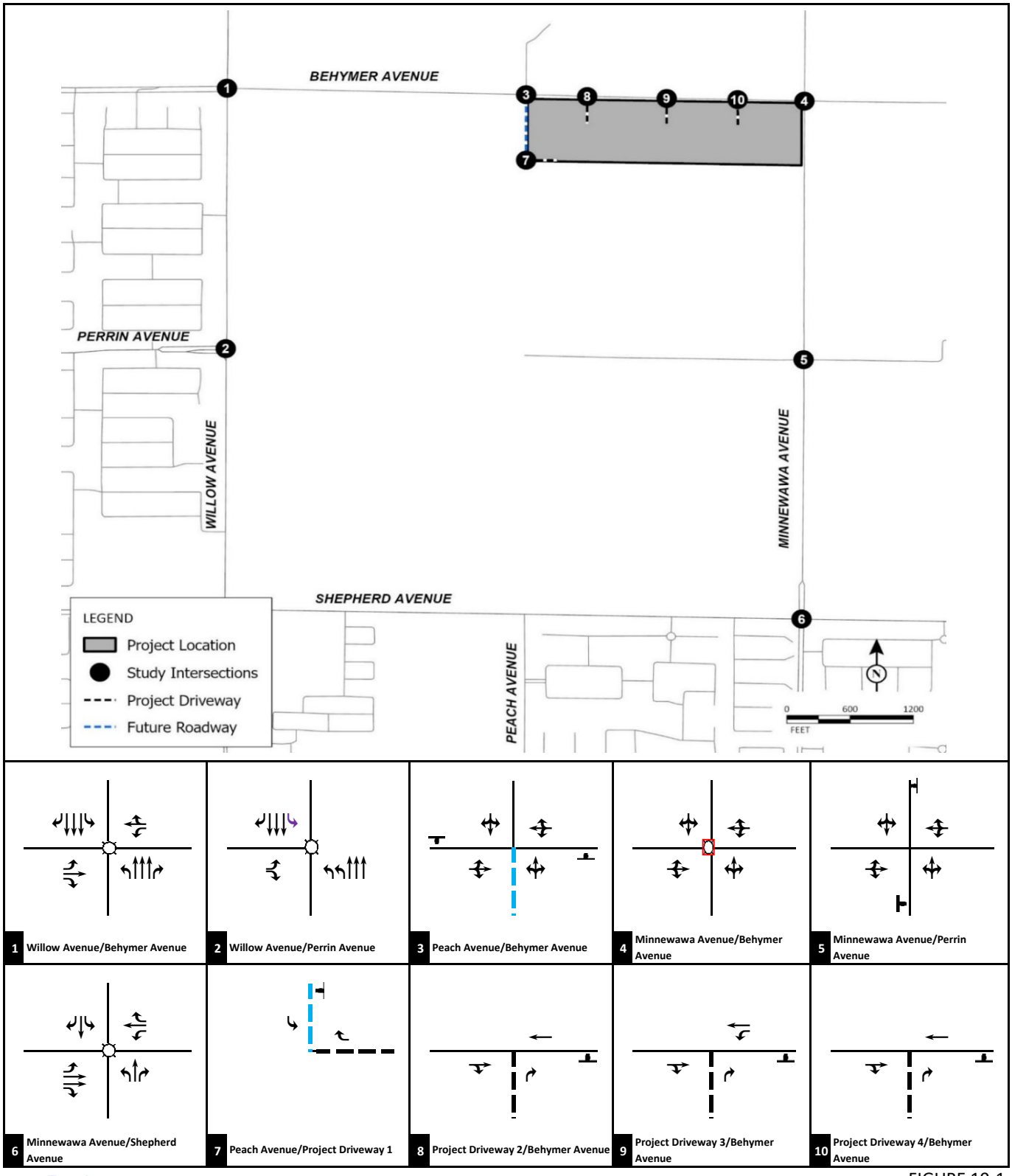


FIGURE 10-1

LSA

Legend

Signal
Stop Sign
Project Driveway
Future Driveway
U-Turn Movement
Install Traffic Signal
Recommended Improvements

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Existing Plus Project with Improvements Study Intersection Geometrics and Traffic Control

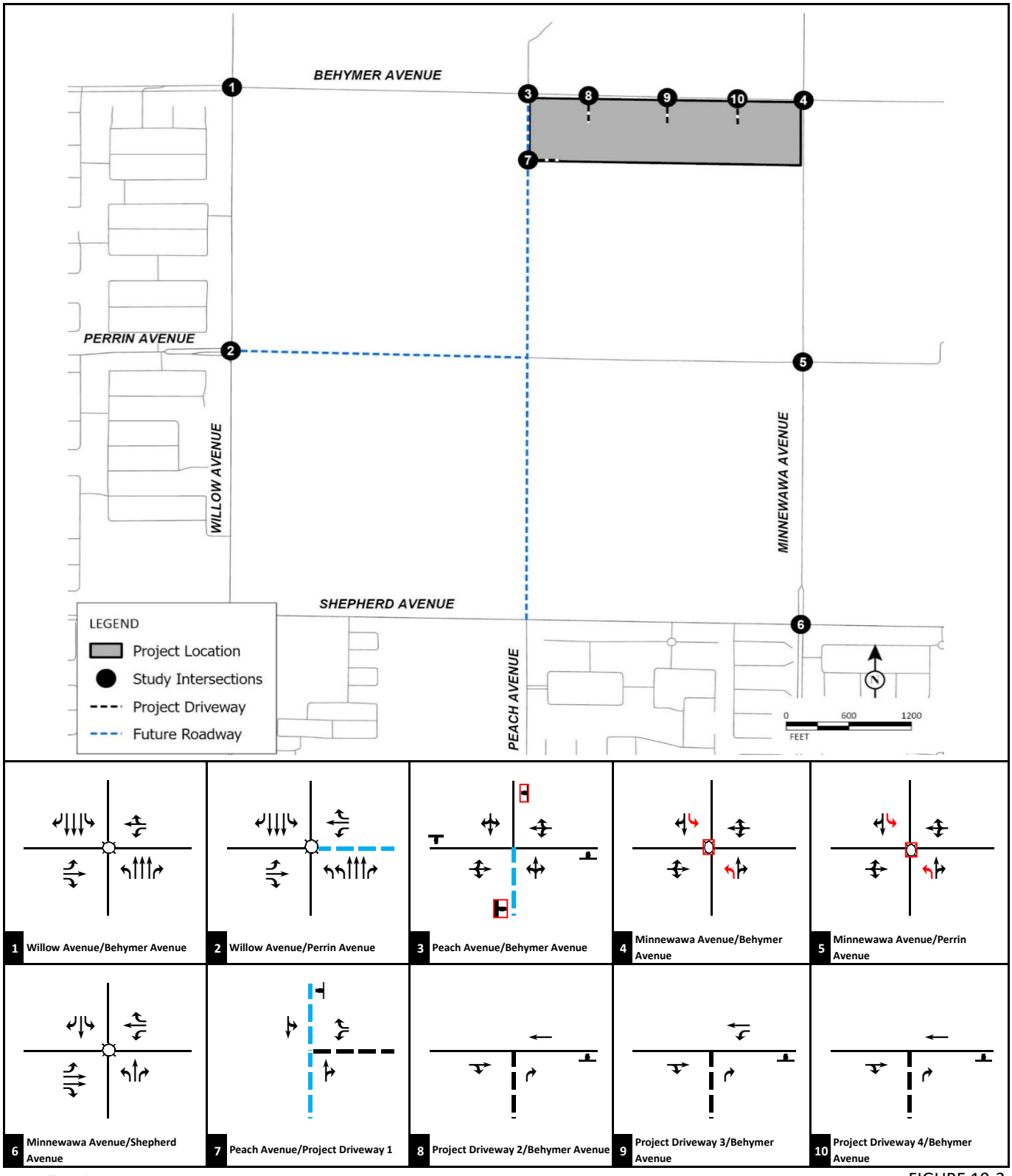


FIGURE 10-2

LSA

Legend

Signal

Stop Sign

Project Driveway

Future Driveway

Optimize Signal Timing

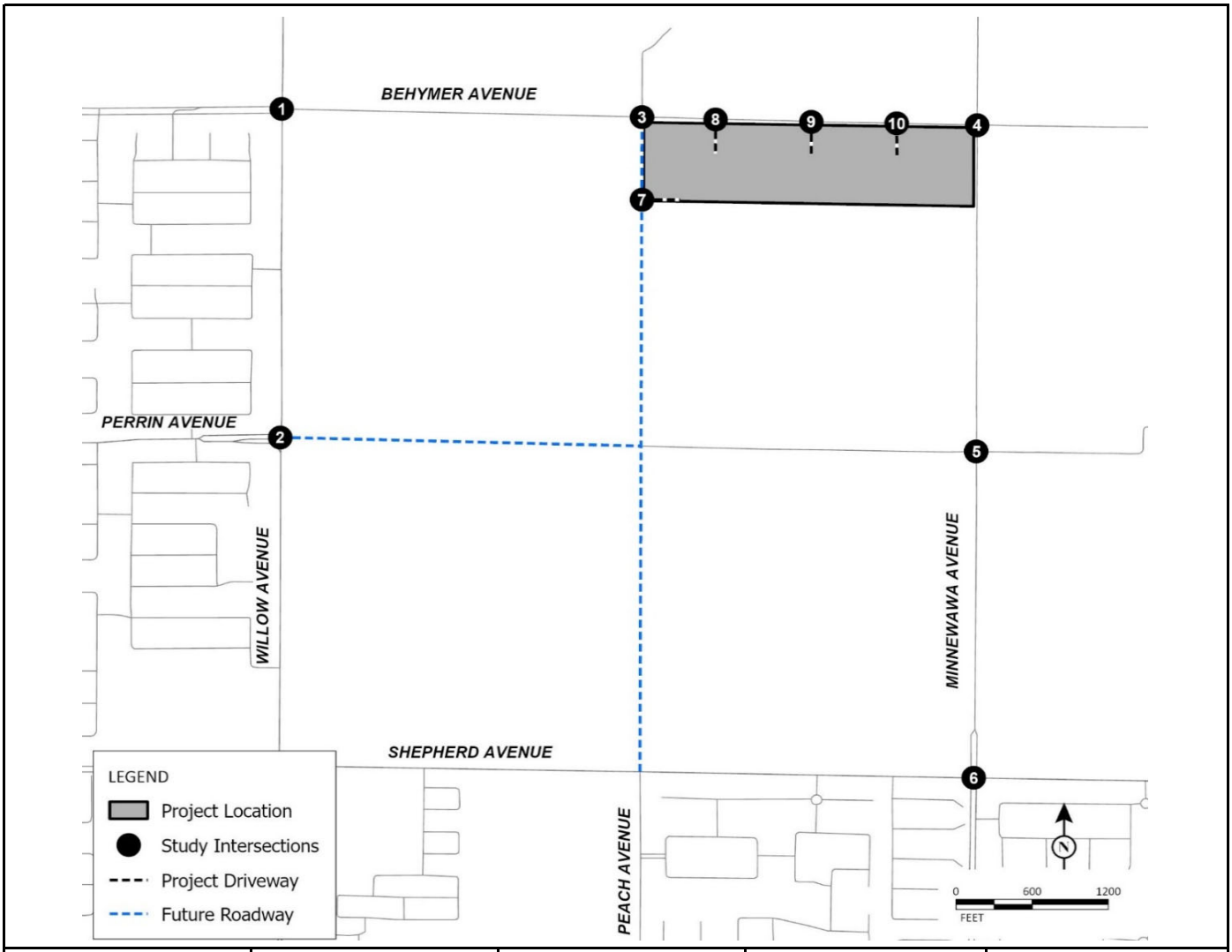
Install Traffic Signal

Recommended Improvements

De Young Properties Peach and Behymer Project

Transportation Impact Analysis

Near -Term (2028) Plus Project with Improvements Study Intersection Geometrics and Traffic Control



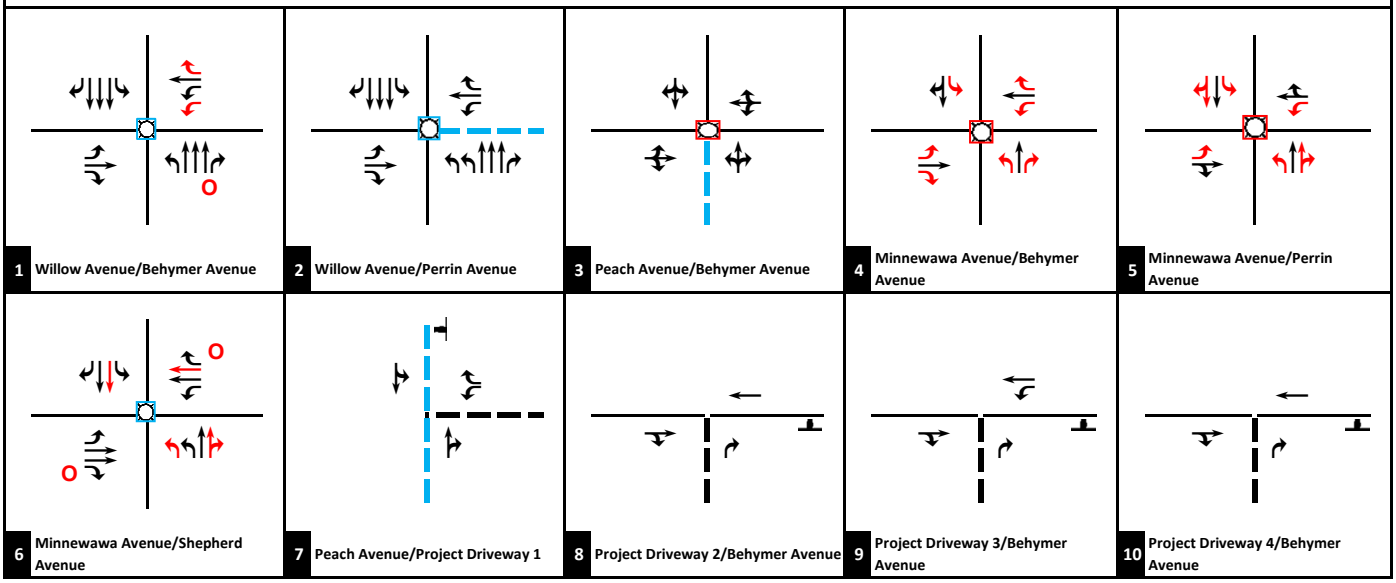


FIGURE 10-3

LSA

Legend

Signal
Stop Sign
Project Driveway
Future Driveway
Optimize Signal Timing
Install Traffic Signal
Recommended Improvements

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Cumulative (2046) Plus Project with Improvements Study Intersection Geometrics and Traffic Control

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LSA

Table 10.A - Recommended Improvements for Intersections

Intersection	Jurisdiction	Existing Plus Project Improvements	Near-Term (2028) Plus Project Improvements	Cumulative (2046) Plus Project Improvements
1 . Willow Avenue/Behymer Avenue	Clovis/Fresno			Add WBL, WBR, NBR overlap. Optimize signal timings.
2 . Willow Avenue/Perrin Avenue	Clovis/Fresno			Optimize signal timings.
3 . Peach Avenue/Behymer Avenue	Clovis/Fresno		Convert to four-way stop controlled.	Install a signal.
4 . Minnewawa Avenue/Behymer Avenue	Clovis/Fresno	Install a signal.	Install a signal with N/S protected phasing . Add NBL, SBL.	Install a signal with N/S protected phasing . Add NBL, continuous NBR, SBL, EBL,EBR, WBL, WBR.
5 . Minnewawa Avenue/Perrin Avenue	Clovis/Fresno		Install a signal with N/S protected phasing . Add NBL, SBL.	Install a signal with protected phasing. Add NBL, NBTR, SBL, SBTR, EBL, WBL.
6 . Minnewawa Avenue/Shepherd Avenue	Clovis/Fresno			Restripe NBR to NBTR. Add NBL, SBT,WBT. Add EBR and WBR overlap phasing. Optimize the signal timing.

Notes:

NB = Northbound, SB = Southbound, EB = Eastbound, WB = Westbound

L = Left, T = Through, R = Right

LSA

Table 10.B - Existing Plus Project with Recommended Improvements Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Plus Project Without Improvements						Plus Project With Improvements				
				A.M. Peak Hour		P.M. Peak Hour				A.M. Peak Hour		P.M. Peak Hour	
			Control	Delay (sec.)	LOS	Delay (sec.)	LOS		Control	Delay (sec.)	LOS	Delay (sec.)	LOS
4 . Minnewawa Avenue/Behymer Avenue	Clovis	D	AWSC	89.2	F	* 91.1	F	*	Signal	9.2	A	9.2	A

Notes:

OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

Table 10.C - Near-Term (2028) Plus Project with Recommended Improvements Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Plus Project Without Improvements						Plus Project With Improvements				
				A.M. Peak Hour			P.M. Peak Hour			A.M. Peak Hour		P.M. Peak Hour	
			Control	Delay (sec.)	LOS		Delay (sec.)	LOS	Control	Delay (sec.)	LOS	Delay (sec.)	LOS
3 . Peach Avenue/Behymer Avenue	Clovis	D	TWSC	30.8	D		42.9	**E**	* AWSC	17.0	C	17.3	C
4 . Minnewawa Avenue/Behymer Avenue	Clovis	D	AWSC	170.6	**F**	*	>200	**F**	* Signal	20.4	C	23.2	C
5 . Minnewawa Avenue/Perrin Avenue	Clovis	D	TWSC	198.4	**F**	*	>200	**F**	* Signal	12.5	B	13.3	B

Notes:

OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

Table 10.D - Cumulative (2046) Plus Project with Recommended Improvements Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Plus Project Without Improvements						Plus Project With Improvements				
				A.M. Peak Hour			P.M. Peak Hour			A.M. Peak Hour		P.M. Peak Hour	
			Control	Delay (sec.)	LOS		Delay (sec.)	LOS		Control	Delay (sec.)	LOS	Delay (sec.)	LOS
1 . Willow Avenue/Behymer Avenue	Clovis/Fresno	D	Signal	139.2	F	*	158.6	F	*	Signal	42.5	D	47.9	D
2 . Willow Avenue/Perrin Avenue	Clovis/Fresno	D	Signal	35.3	D		57.9	E	*	Signal	35.3	D	52.6	D
3 . Peach Avenue/Behymer Avenue	Clovis	D	TWSC	>200	F	*	>200	F	*	Signal	9.7	A	9.8	A
4 . Minnewawa Avenue/Behymer Avenue	Clovis	D	AWSC	>200	F	*	>200	F	*	Signal	21.4	C	44.6	D
5 . Minnewawa Avenue/Perrin Avenue	Clovis	D	TWSC	>200	F	*	>200	F	*	Signal	23.8	C	22.0	C
6 . Minnewawa Avenue/Shepherd Avenue	Clovis	D	Signal	183.7	F	*	>200	F	*	Signal	44.0	D	52.5	D

Notes:

OWSC = One-Way Stop Control; TWSC = Two-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

Table 10.E - Intersection Improvement Funding Mechanism

Intersection	Jurisdiction	Recommended Improvements	Funding Mechanism	Improvements Covered by Clovis Development Improvement Fee Program/Operations
1 . Willow Avenue/Behymer Avenue	Clovis/Fresno	Add WBL, WBR, NBR overlap. Optimize signal timings.	Clovis DIF	Add WBL, WBR, NBR overlap. Optimize signal timings.
2 . Willow Avenue/Perrin Avenue	Clovis/Fresno	Add EBL. Optimize signal timings.	Clovis DIF	Add EBL. Optimize signal timings.
3 Peach Avenue/Behymer Avenue	Clovis/Fresno	Install a signal.	Clovis DIF	Install a signal.
4 Minnewawa Avenue/Behymer Avenue	Clovis/Fresno	Install a signal with N/S protected phasing . Add NBL, continuous NBR, SBL, EBL,EBR, WBL, WBR.	Clovis DIF	Install a signal with N/S protected phasing . Add NBL, continuous NBR, SBL, EBL,EBR, WBL, WBR.
5 Minnewawa Avenue/Perrin Avenue	Clovis/Fresno	Install a signal with protected phasing. Add NBL, NBTR, SBL, SBTR, EBL, WBL.	Clovis DIF	Install a signal with protected phasing. Add NBL, NBTR, SBL, SBTR, EBL, WBL.
6 Minnewawa Avenue/Shepherd Avenue	Clovis/Fresno	Restripe NBR to NBTR. Add NBL, SBT,WBT. Add EBR and WBR overlap phasing. Optimize the signal timing.	Clovis Operations	Restripe NBR to NBTR. Add NBL, SBT,WBT. Add EBR and WBR overlap phasing. Optimize the signal timing.

Notes:

NB = Northbound, SB = Southbound, EB = Eastbound, WB = Westbound

L = Left, T = Through, R = Right

11.0 INTERSECTION QUEUING ANALYSIS

Tables 11.A, 11.B, and 11.C list the available turn-pocket storage lengths and summarize the 95th percentile back-of-queue lengths at the study intersections under existing, near-term (2028), and cumulative (2046) conditions. The queues for the signalized intersections have been reported from Synchro, while unsignalized intersections, the SimTraffic queues have been reported since Synchro does not appropriately report queues at unsignalized intersections.

Tables 11.D, 11.E, and 11.F lists the 95th percentile back-of-queue lengths at the study intersections for plus project and plus project with improvements conditions, under existing, near-term (2028), and cumulative (2046) scenarios. It also includes the recommended turn-pocket storage lengths at these intersections. The recommended turn pocket storage lengths have been calculated based on recommended lane geometry with improvements and availability of adequate right-of-way.

Detailed queuing worksheets are included in Appendix F.

11.1 LIST OF CHAPTER 11.0 TABLES

LSA

Table 11.A - Existing Queuing Analysis

Intersection	Movement	Existing Storage Length[1] (ft/ln)	Existing			
			Without Project[2]		Plus Project [2]	
			AM	PM	AM	PM
1 . Willow Avenue/Behymer Avenue	**NBL**	250	115	140	115	140
Signal	**NBR**	105	0	0	0	40
	SBL	250	85	115	85	125
	SBR	205	0	0	0	0
	EBL	230	100	40	100	40
	WBL	90	50	80	**105**	**115**
2 . Willow Avenue/Perrin Avenue	**2x NBL**	235	40	70	40	75
Signal	**NBR**	145	--	--	--	--
	SBL	250	0	0	0	0
	SBR	130	30	30	30	30
6 . Minnewawa Avenue/Shepherd Avenue	**NBL**	230	140	130	140	135
Signal	**SBL**	260	110	65	140	85
	SBR	15	0	0	0	0
	EBL	230	55	60	55	60
	EBR	45	**70**	**55**	**75**	**55**
	WBL	220	30	15	30	15
	WBR	60	**80**	40	**90**	**65**

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

Bold = Queue exceeds available storage.

1 Storage length for all movements obtained from Google Earth measurements.

2 All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

Table 11.B - Near-Term (2028) Queuing Analysis

Intersection	Movement	Existing Storage Length[1] (ft/ln)	Near Term Year (2028) Plus Project [2] AM	Near Term Year (2028) Plus Project [2] PM
1 . Willow Avenue/Behymer Avenue	**NBL**	250	170	240
Signal	**NBR**	105	35	100
	SBL	250	110	170
	SBR	205	0	0
	EBL	230	105	45
	WBL	90	**275**	**310**
2 . Willow Avenue/Perrin Avenue	**2x NBL**	235	80	110
Signal	**NBR**	145	35	30
	SBL	250	45	55
	SBR	130	75	40
	EBL	230	215	**245**
	WBL	100	**125**	**160**
	WBR	100	0	0
6 . Minnewawa Avenue/Shepherd Avenue	**NBL**	230	**285**	**455**
Signal	**SBL**	260	**325**	210
	SBR	15	**100**	**110**
	EBL	230	150	**250**
	EBR	45	**180**	**160**
	WBL	220	80	65
	WBR	60	**185**	**200**

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

Bold = Queue exceeds available storage.

1 Storage length for all movements obtained from Google Earth measurements.

2 All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

Table 11.C - Cumulative (2046) Queueing Analysis

Intersection	Movement	Existing Storage Length[1] (ft/ln)	Cumulative (2046)			
			Without Project[2]		Plus Project [2]	
			AM	PM	AM	PM
1 . Willow Avenue/Behymer Avenue	**NBL**	250	**275**	**345**	**275**	**345**
Signal	**NBR**	105	90	**530**	90	**535**
	SBL	250	190	**405**	195	**415**
	SBR	205	0	0	0	0
	EBL	230	115	45	115	45
	WBL	90	**885**	**920**	**885**	**915**
2 . Willow Avenue/Perrin Avenue	**2x NBL**	235	110	225	110	225
Signal	**NBR**	145	46	145	50	145
	SBL	250	75	215	75	215
	SBR	130	**225**	125	**225**	125
	EBL	230	**295**	**615**	**295**	**615**
	WBL	100	**220**	**300**	**220**	**300**
	WBR	100	15	45	15	45
6 . Minnewawa Avenue/Shepherd Avenue	**NBL**	230	**430**	**840**	**430**	**840**
Signal	**SBL**	260	**510**	**280**	**510**	**280**
	SBR	15	**190**	**195**	**190**	**195**
	EBL	230	210	**530**	210	**530**
	EBR	45	**560**	**340**	**560**	**340**
	WBL	220	155	85	155	85
	WBR	60	**325**	**300**	**325**	**300**

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

Bold = Queue exceeds available storage.

1 Storage length for all movements obtained from Google Earth measurements.

2 All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

Table 11.D - Existing Plus Project with Improvements Queuing Analysis

Intersection	Movement	Existing Storage Length[1] (ft/ln)	Plus Project Recommended Storage Length[1] (ft/ln)	Existing Plus Project with Improvements[2] AM	Existing Plus Project with Improvements[2] PM
1 . Willow Avenue/Behymer Avenue	**NBL**	250	300	115	140
Signal	**NBR**	105	455	0	40
	SBL	250	415	85	125
	SBR	205	205	0	0
	EBL	230	230	100	40
	WBL	90	355	105	115
2 . Willow Avenue/Perrin Avenue	**2x NBL**	235	235	40	75
Signal	**NBR**	145	145	--	--
	SBL	250	250	--	--
	SBR	130	225	30	30
	EBL	--	--	--	--
	EBR	--	--	--	--
6 . Minnewawa Avenue/Shepherd Avenue	**NBL**	230	230	145	135
Signal	**SBL**	260	425	145	85
	SBR	15	150	0	0
	EBL	230	500	60	60
	EBR	45	45	**75**	**55**
	WBL	220	220	30	15
	WBR	60	175	50	45

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

Bold = Queue exceeds available storage.

[1] Storage length for all movements obtained from Google Earth measurements.

[2] All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

LSA

Table 11.E - Near-Term (2028) Plus Project with Improvements Queuing Analysis

Intersection	Movement	Existing Storage Length[1] (ft/ln)	Plus Project Recommended Storage Length[1] (ft/ln)	Near Term Year (2028) Plus Project with Improvements[2] AM	PM
1. Willow Avenue/Behymer Avenue	**NBL**	250	300	170	240
Signal	**NBR**	105	455	35	60
	SBL	250	415	110	170
	SBR	205	205	0	0
	EBL	230	230	105	45
	WBL	90	355	275	310
2. Willow Avenue/Perrin Avenue	**2x NBL**	235	235	80	110
Signal	**NBR**	145	145	15	30
	SBL	250	250	45	55
	SBR	130	225	55	40
	EBL	230	250	215	245
	EBR	--	--	--	--
	WBL	100	300	125	160
	WBR	100	100	0	0
4. Willow Avenue/Perrin Avenue	**NBL**	--	300	115	160
Signal	**NBR**	--	--	170	175
	SBL	--	350	**--**	**--**
	EBL	--	100	**--**	**--**
	EBR	--	125	**--**	**--**
	WBL	--	100	**--**	**--**
	WBR	--	175	**--**	**--**
5. Minnewawa Avenue/Perrin Avenue	**NBL**	--	175	55	105
Signal	**SBL**	--	100	10	5
	EBL	--	175	**--**	**--**
	WBL	--	100	**--**	**--**
6. Minnewawa Avenue/Shepherd Avenue	**NBL**	230	230	**285**	**420**
Signal	**SBL**	260	425	325	210
	SBR	15	150	100	75
	EBL	230	500	150	315
	EBR	45	45	**190**	**185**
	WBL	220	220	185	65
	WBR	60	175	100	105

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

Bold = Queue exceeds available storage.

[1] Storage length for all movements obtained from Google Earth measurements.

[2] All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

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Table 11.F - Cumulative (2046) Plus Project with Improvements Queuing Analysis

Intersection	Movement	Existing Storage Length[1] (ft/ln)	Plus Project Recommended Storage Length[1] (ft/ln)	Cumulative (2046) Plus Project with Improvements[2]	
				AM	PM
1 . Willow Avenue/Behymer Avenue	**NBL**	250	300	300	265
Signal	**NBR**	105	455	55	455
	SBL	250	415	215	410
	SBR	205	205	0	0
	EBL	230	230	140	45
	WBL	90	355	340	355
	WBR	--	150	105	65
2 . Willow Avenue/Perrin Avenue	**2x NBL**	235	235	110	170
Signal	**NBR**	145	145	50	145
	SBL	250	250	75	200
	SBR	130	225	225	75
	2x EBL	230	250	**295**	**555**
	EBR	--	--	--	--
	WBL	100	300	220	**315**
	WBR	100	100	15	5
4 . Minnewawa Avenue/Behymer Avenue	**NBL**	--	300	115	290
Signal	**NBR**	--	--	10	35
	SBL	--	350	130	330
	EBL	--	100	25	35
	EBR	--	125	45	120
	WBL	--	100	65	85
	WBR	--	150	100	120
5 . Minnewawa Avenue/Perrin Avenue	**NBL**	--	175	135	165
Signal	**SBL**	--	100	10	15
	EBL	--	175	125	155
	WBL	--	100	35	35
6 . Minnewawa Avenue/Shepherd Avenue	**NBL**	230	230	165	**295**
Signal	**SBL**	260	425	415	335
	SBR	15	150	140	120
	EBL	230	500	255	480
	EBR	45	45	**470**	**305**
	WBL	220	220	190	80
	WBR	60	175	175	175

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Table 11.F - Cumulative (2046) Plus Project with Improvements Queuing Analysis

	Intersection	Movement	Existing Storage Length[1] (ft/ln)	Plus Project Recommended Storage Length[1] (ft/ln)	Cumulative (2046) Plus Project with Improvements[2] AM	Cumulative (2046) Plus Project with Improvements[2] PM
9 .	Project Driveway 3/Behymer Avenue	**WBL**	--	100	20	45
	OWSC					

Notes:

ft/ln = feet per lane

EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound

L = Left; R = Right

Bold = Queue exceeds available storage.

1 Storage length for all movements obtained from Google Earth measurements.

2 All queues reported are 95th percentile queues. Queues for signalized intersections have been taken from Synchro and queues for stop controlled intersections have been taken from SimTraffic.

12.0 SITE DISTANCE ANALYSIS AND SAFE ROUTES TO SCHOOL ANALYSIS

As discussed previously and shown on Figure 1-2, access to the project will be provided by four driveways: one full-access driveway on future Peach Avenue and two RIRO access and one right-in-right-out-left-in driveway along Behymer Avenue.

12.1 SIGHT DISTANCE ANALYSIS

A sight distance analysis was conducted at the project driveways along Behymer Avenue and future roadway on Peach Avenue. Sight distance is the length of the visible roadway a driver can see approaching vehicles before their line of sight is blocked by any object. For purposes of this analysis, only the stopping sight distance and corner sight distance have been evaluated. That is because those are the only two sight distance issues that would affect safe maneuver of ingress/egress traffic from the project driveway.

According to the Caltrans *Highway Design Manual* (HDM) (dated July 2020), the stopping sight distance is the minimum sight distance along a roadway required to allow a driver to decrease their speed from the design speed to a complete stop. The corner sight distance is the minimum sight distance in which a driver at a stop-controlled approach can see oncoming traffic on the major street to safely maneuver onto the roadway.

The stopping sight distance was evaluated on the roadways along the project frontage (i.e., Peach Avenue and Behymer Avenue). For purposes of this analysis, the posted speed limit of 30 mph has been considered as the design speed for Peach Avenue and the posted speed limit is 40 mph on Behymer Avenue. As stated in Table 201.1 of the HDM, the minimum stopping sight distance is 200 feet for a design speed of 30 mph and 300 feet for a design speed of 40 mph. Therefore, the minimum stopping sight distance has been considered as 200 feet for Project Driveway 1 (along Peach Avenue) and 300 feet for Project Driveway 2, Project Driveway 3, and Project Driveway 4 (along Behymer Avenue).

As for corner sight distance, Section 405.1 of the HDM states that corner sight distance requirements are not applicable for urban driveways unless signalized. However, as a conservative approach, corner sight distance were also evaluated for the project driveway. The minimum corner sight distance was based on design speed, time gap, and type of vehicles from the minor roads (project driveways) to enter the major roads (Peach Avenue and Behymer Avenue). Based on the requirements established in the HDM, it was determined that a minimum corner sight distance of 335 feet would be required for left-turn maneuvers coming out of Project Driveway 1. Furthermore, a minimum corner sight distance of 290 feet would be required for right-turn maneuvers coming out of Project Driveway 1 and 385 feet would be required for right-turn maneuvers coming out of Project Driveway 2, Project Driveway 3, and Project Driveway 4.

Since the corner sight distance required at the project driveway would be greater than the stopping sight distance, sight triangle figures were created using the corner sight distance. As a conservative measure, left-turn corner sight distance was used for both right- and left-turn sight triangles for the project driveway 1. As illustrated in Figure 12-1, Project Driveway 1 will provide adequate sight

distance for left- and right-turn maneuvers onto Peach Avenue. Similarly, as illustrated in Figure 12-2, Figure 12-3 and Figure 12-4, the Project Driveways will provide adequate sight distance for right-turn maneuvers onto Behymer Avenue.

12.2 SAFE ROUTES TO SCHOOL

The project will be under the jurisdiction of the Clovis Unified School District (CUSD). The CUSD provides transportation for students who live in excess of an established radius zone. The zones are a radius of 1.00 mile for grades Kindergarten through 6th and 2.50 miles for grades 7th through 12th.

The nearest elementary school is Riverview Elementary School, which is located at the southeast corner of the intersection of Chestnut Avenue/Behymer Avenue. The distance between the project corner and the school along Chestnut Avenue/Behymer Avenue is approximately 0.9 mile. Therefore, it is estimated that children from the project will be accessing the elementary school by car, bike, or by walking. This school can be accessed from the project site by traveling west along Behymer Avenue to the intersection of Willow Avenue/Behymer Avenue and continuing west along Beymer Avenue to the intersection of Chestnut Avenue/Behymer Avenue.

It should be noted that the project is within the vicinity of the proposed Heritage Grove Specific Plan project. Based on the project description of the Specific Plan, an elementary school is being proposed within Planning Area 9 of the Specific Plan. Though the completion date for this elementary school is still undetermined, elementary school students from the project are anticipated to attend this school once completed. This new school will be within close proximity of the project site. The Heritage Grove Specific Plan project will also be constructing sidewalks and bike lanes as part of internal circulation network to provide safe route for walking and biking to school. As such, no further safety improvements may be required for the elementary school students upon construction of this elementary school.

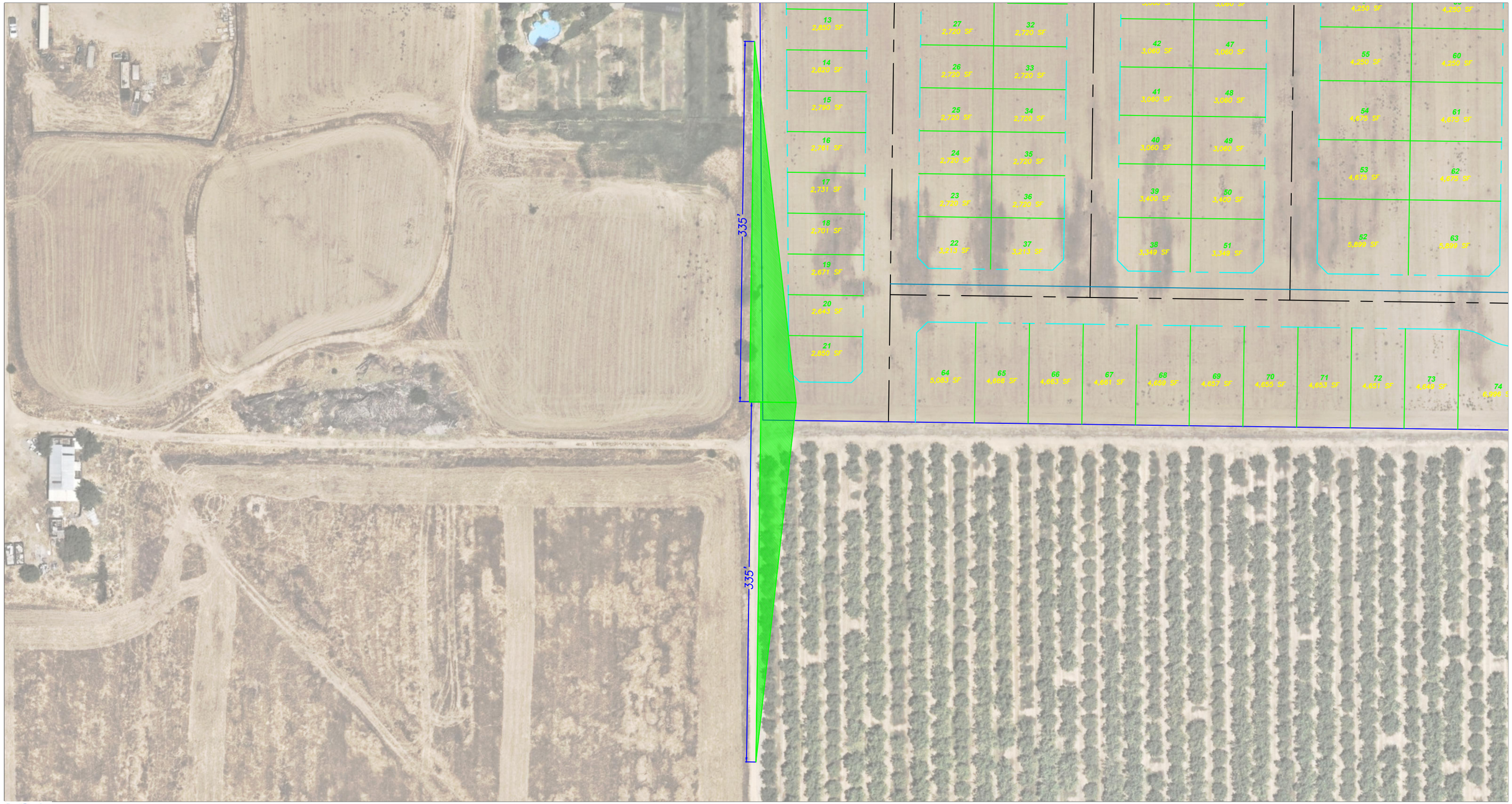
Currently, sidewalks are present along both sides of Behymer Avenue between Chestnut and Willow Avenue. The project will be adding sidewalks along Behymer Avenue along the project frontage. The intersections of Willow Avenue/Behymer Avenue and Chestnut Avenue/Behymer Avenue are signalized intersections with marked crosswalks for pedestrians. As such, with these proposed improvements, people could safely walk using the sidewalks described above and also could safely cross these intersections when permitted without any conflicting vehicular movements. The intersection of Peach Avenue/Behymer Avenue is currently stop controlled along the minor lanes. However, a signal has been recommended at this intersection. Therefore, a signal will be installed at this intersection with marked crosswalks and other safety improvements. As such, a safe walking route to the elementary school would be present for elementary school students from the project.

The nearest middle school from the project is Granite Ridge Intermediate School and nearest high school is the Clovis North High School, both of which are located at the northwest corner of the intersection of Willow Avenue/International Avenue. The distance between the schools and the project is approximately 1 mile and additionally, the project is included within the school's walking radius area. The most direct connection to these schools from the project is using the same routes toward Riverview Elementary School and continue northbound on Willow Avenue. Clovis Old Town Trail is present on the southbound direction of Willow Avenue between Behymer Avenue and

International Avenue. Additionally, the intersection of Willow Avenue/International Avenue is a signalized intersection with a marked crosswalk. As such, a safe walking route would exist between the project and the schools and no further safety improvements will be required.

12.3 LIST OF CHAPTER 12.0 FIGURES

- Figure 12-1: Sight Distance Analysis at Peach Avenue/Project Driveway 1
- Figure 12-2: Sight Distance Analysis at Project Driveway 2/Behymer Avenue
- Figure 12-3: Sight Distance Analysis at Project Driveway 3/Behymer Avenue
- Figure 12-4: Sight Distance Analysis at Project Driveway 4/Behymer Avenue



LSA

FIGURE 12-1

0 40' 80'
FEET

De Young Properties Peach and Behymer Project
Transportation Impact Study

Sight Distance Analysis at Peach Avenue/Project Driveway 1

SOURCE: De Young Properties, February 2024.
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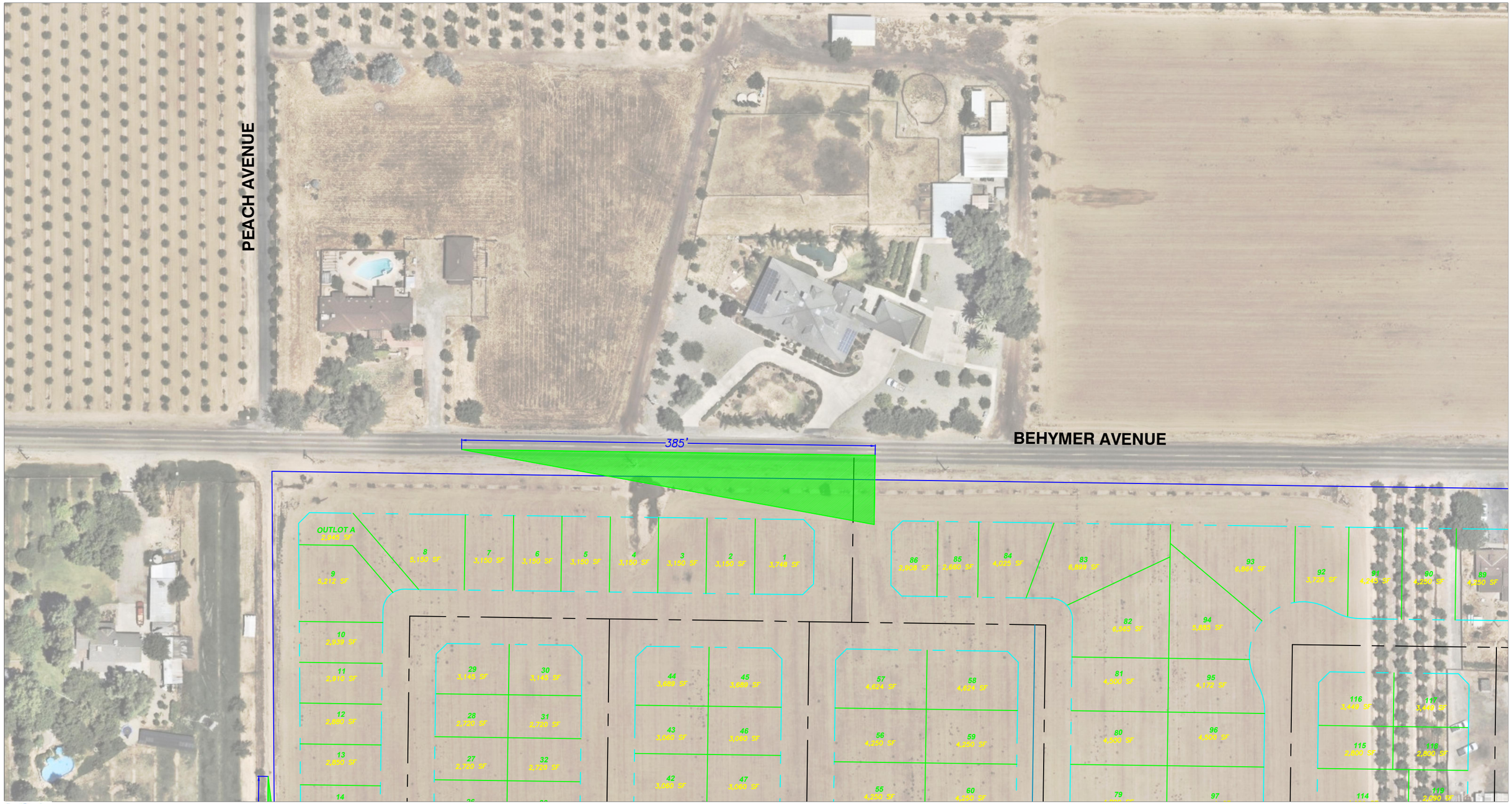

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FIGURE 12-2

0 40' 80'
FEET

SOURCE: De Young Properties, February 2024.
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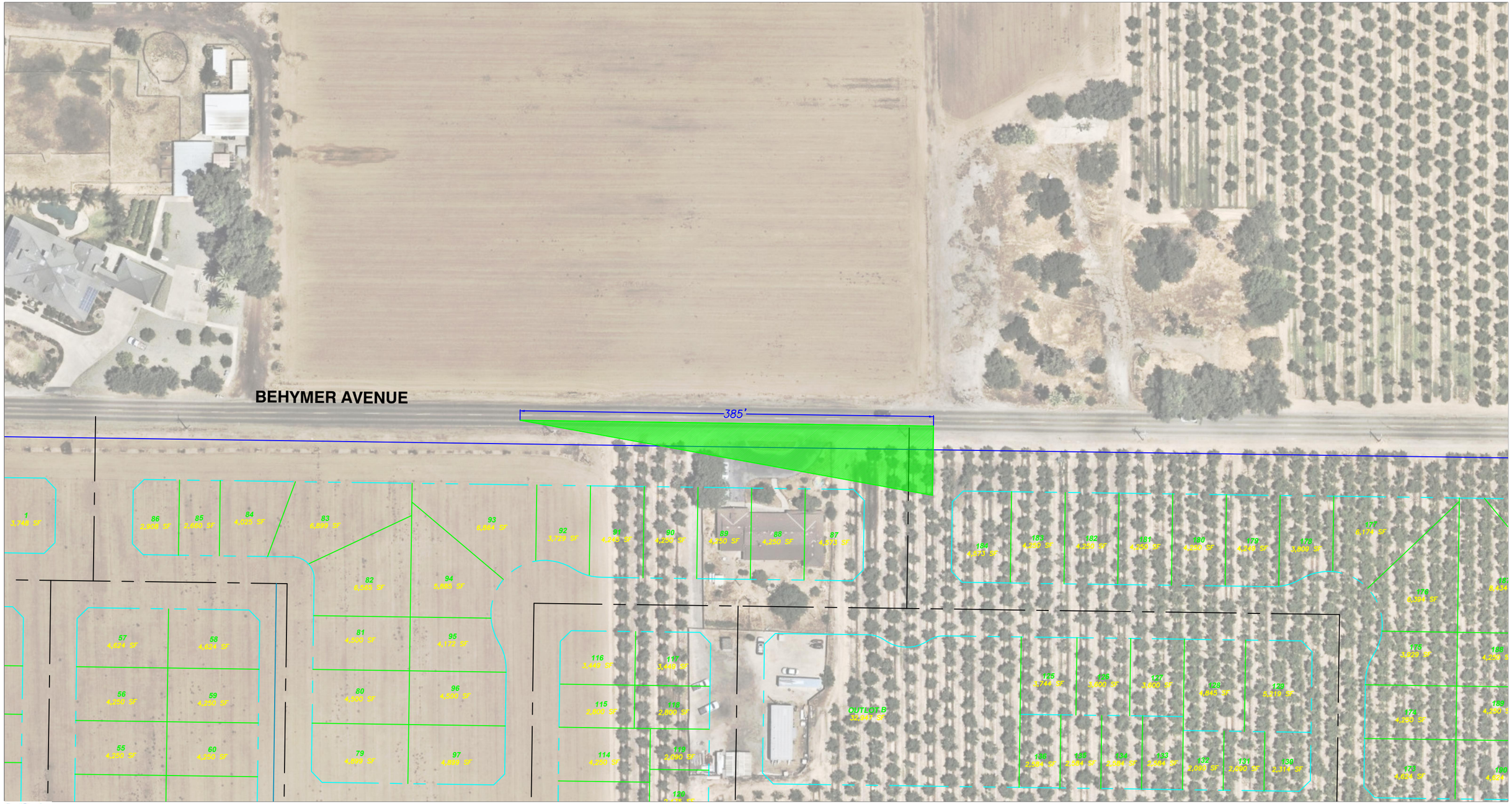
De Young Properties Peach and Behymer Project
Transportation Impact Study

Sight Distance Analysis at Project Driveway 2/Behymer Avenue



LSA

FIGURE 12-3

0 40' 80'
FEET

De Young Properties Peach and Behymer Project
Transportation Impact Study

Sight Distance Analysis at Project Driveway 3/Behymer Avenue

SOURCE: De Young Properties, February 2024.
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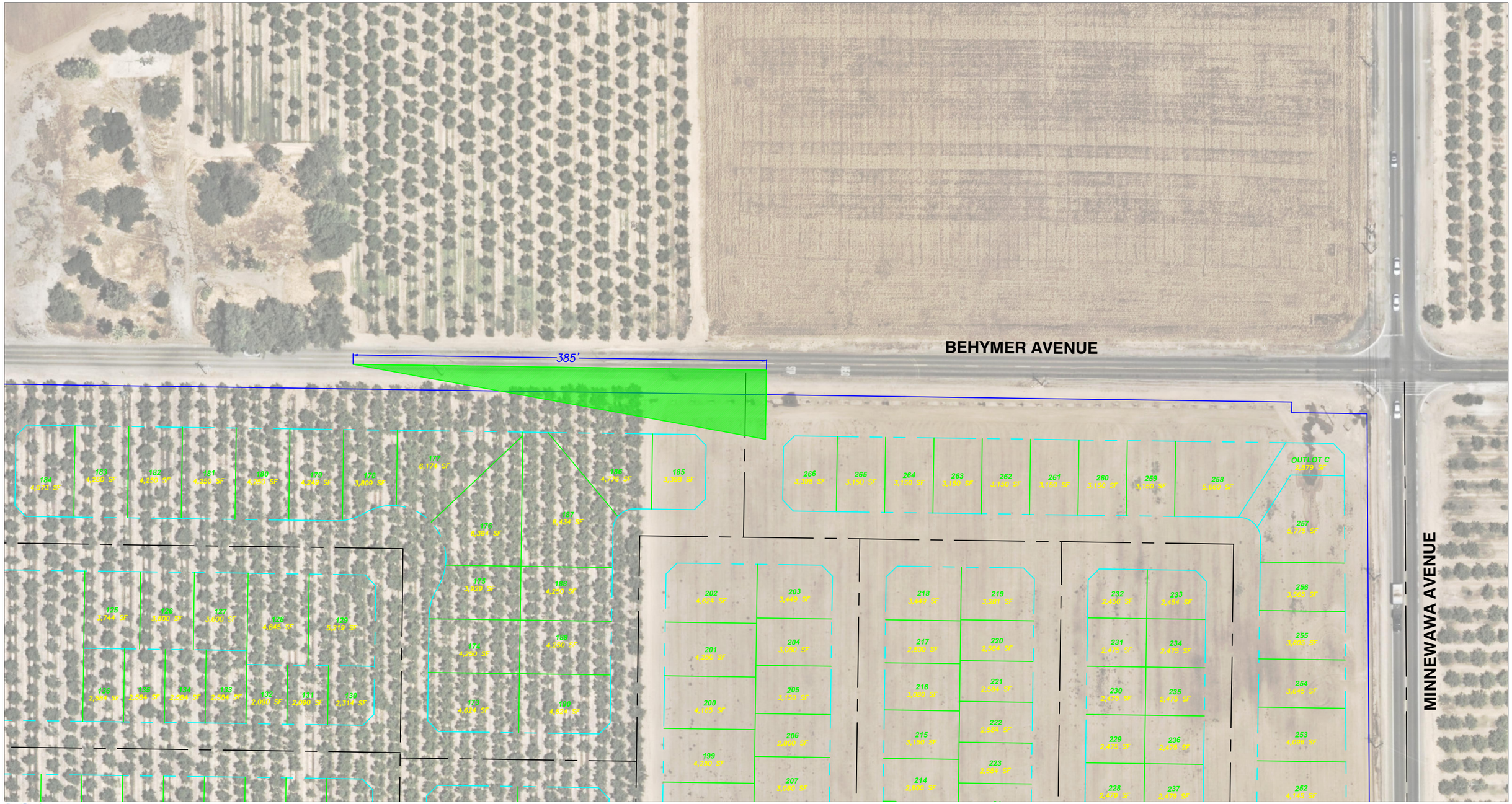

LSA

FIGURE 12-4

0 40' 80'
FEET

De Young Properties Peach and Behymer Project
Transportation Impact Study

Sight Distance Analysis at Project Driveway 4/Behymer Avenue

SOURCE: De Young Properties, February 2024.
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13.0 SUMMARY AND CONCLUSIONS

The proposed project will consist of 266 single-family homes on approximately 37 acres of the site. The remaining 32,974 sf of the site will be used for park space. It is anticipated that the project buildout will occur in year 2028. Access to the project will be provided by four driveways.

13.1 VEHICLE MILES TRAVELED ANALYSIS SUMMARY

The project's VMT per capita is 14.9 which is 5.5 percent higher than the City's VMT per capita threshold. Therefore, based on the TIA Guidelines, the project will have a significant VMT impact. However, given the project is consistent with the City's General Plan, it would fall under the Statement of Overriding Considerations for the City's General Plan EIR and would implement the mitigation measures recommended in the EIR. As such, the project would not require any additional mitigation measures than what has been recommended in the General Plan EIR.

13.2 EXISTING CONDITIONS SUMMARY

All study intersections operate at a satisfactory LOS under existing without and plus project conditions with the exception of intersection at Minnewawa Avenue/Behymer Avenue.

13.3 NEAR-TERM (2028) CONDITIONS SUMMARY

All intersections are forecast to operate at a satisfactory LOS under near-term (2028) plus project conditions with the exception of 3 intersections.

13.4 CUMULATIVE (2046) CONDITIONS SUMMARY

All intersections are forecast to operate at a satisfactory LOS under cumulative (2046) without and plus project conditions with the exception of 6 intersections.

13.5 IMPROVEMENTS SUMMARY

Based on the improvements discussed in Section 10.1 'Recommended Improvements', of this report, all intersections are estimated to operate satisfactorily. All of the recommended circulation improvements are covered by the Clovis Operations and Development Impact Fee.

13.6 QUEUEING ANALYSIS SUMMARY

The recommended storage lengths have been proposed at intersections based on the availability of right-of-way and 95th percentile back-of-queue lengths at the study intersections.

13.7 SIGHT DISTANCE ANALYSIS SUMMARY

A sight distance analysis was conducted at the project driveways. Based on the sight distance analysis, the proposed project driveways achieve adequate sight distances and have clear sight triangles for the drivers.

13.8 SAFE ROUTES TO SCHOOL ANALYSIS SUMMARY

The project is well connected with the nearby elementary school, intermediate school and the high school for non-motorized modes of commute due to existing and proposed sidewalks as well as signalized intersections with marked crosswalks.

APPENDIX A

SCOPING AGREEMENT

CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

April 19, 2024

Mr. Sean K. Smith
Supervising Civil Engineer
Engineering Division, City of Clovis
1033 Fifth Street
Clovis, California 93612

Subject: Scope of Work for De Young Properties Peach and Behymer Project Transportation Impact Analysis (LSA Project No. 20231181)

Dear Sean:

LSA will be preparing a Transportation Impact Analysis (TIA) for the De Young Properties Peach and Behymer Project (project) in Clovis (City). The approximately 37 acres project site is located at the southwest corner of Minnewawa Avenue and Behymer Avenue on parcels 556-01-028 and 556-01-029. The project site is currently occupied by one residential unit and agricultural uses. Figure 1 (all figures, tables, and appendices attached) illustrates the regional and project location.

The proposed project is located within City's sphere of influence (SOI) and within the northwest urban center growth area. The project is proposing to annex approximately 37 acres from Fresno County into the City and includes the development of 266 single family dwelling units and 32,974 square-feet (sf) of park space. Figure 2 illustrates the tentative subdivision map for the residential development in the project. Access to the project site will be provided via four project driveways – one on future extension of Peach Avenue, and three on Behymer Avenue. The following provides a brief description of proposed access controls for all project driveways:

- Project Driveway 1: This driveway will be located along Peach Avenue and will be a full access driveway.
- Project Driveway 2: This driveway will be located along Behymer Avenue and will be a right-in-right-out (RIRO) only driveway.
- Project Driveway 3: This driveway will be located along Behymer Avenue and will be a right-in-right-out-left-in driveway. Left-out access will be restricted.
- Project Driveway 4: This driveway will be located along Behymer Avenue and will be a RIRO only driveway.

It should be noted that the project is also anticipated to have connections to adjacent future residential development located immediately south of the project site.

The City requires preparation of TIAs using the City of Clovis *Transportation Impact Analysis Guidelines* for land uses projects within the City. As recommended in the City's TIA Guidelines, a Local Transportation Analysis (LTA) would be required for City's General Plan consistency

1500 Iowa Avenue, Suite 200, Riverside, California 92507 951.781.9310 www.lsa.net

requirement purposes, while a vehicle Miles Traveled Analysis will be required for California Environmental Quality Act (CEQA) Transportation Impact Assessment purposes. As such, LSA anticipates that the following scope of work will be required to prepare the TIA for the proposed project.

LOCAL TRANSPORTATION ANALYSIS

Study Area Intersections

An LTA will be prepared to satisfy the requirements established by the City's TIA Guidelines to evaluate the project's effect on General Plan level of service (LOS) requirements. Traffic operations at all study intersections will be analyzed during the weekday a.m. and p.m. peak hours. The a.m. peak hour is defined as the one-hour period of the highest traffic volume occurring between 7:00 and 9:00 a.m. while the p.m. peak hour is defined as the one-hour period of the highest traffic volume occurring between 4:00 and 6:00 p.m. Intersection LOS will be calculated using the *Highway Capacity Manual* 7th Edition (HCM 7) analysis methodologies and by using the Synchro 12 software.

As per the City's TIA guidelines, the extent of the study area should include the following:

- Pedestrian, bicycle, and transit facilities within a half-mile distance from the project site boundary;
- All intersections of major streets that would provide direct access to the project;
- All signalized intersections within one-half mile of the project site boundary where the project would add 50 or more peak hour trips, and signalized intersections beyond one-half mile where the project would add 100 or more peak hour trips; and
- All unsignalized intersections within a half-mile of the project site boundary where the project would add more than 50 peak hour trips.

As such, the TIA will examine the following intersections:

1. Willow Avenue/Behymer Avenue (City of Clovis/City of Fresno);
2. Willow Avenue/Perrin Avenue (City of Clovis/City of Fresno);
3. Peach Avenue/Behymer Avenue (City of Clovis);
4. Minnewawa Avenue/Behymer Avenue (City of Clovis);
5. Minnewawa Avenue/Shepherd Avenue (City of Clovis);
6. Peach Avenue/Perrin Avenue [Future intersection] (City of Clovis);
7. Peach Avenue/Project Driveway 1 (City of Clovis);
8. Project Driveway 2/Behymer Avenue (City of Clovis);
9. Project Driveway 3/Behymer Avenue (City of Clovis); and
10. Project Driveway 4/Behymer Avenue (City of Clovis).

Figure 3 illustrates the study area intersections.

Project Trip Generation, Trip Distribution, and Trip Assignment

The trip generation for the proposed project was developed using rates from the Institute of Transportation Engineers (ITE) *Trip Generation Manual* (11th Edition) for Land Uses 210 - "Single-Family Detached Housing – Setting/Location General Urban/Suburban." The project trip generation is summarized in Table A. The project is anticipated to generate 2,508 total daily trips, with 186 trips occurring during the a.m. peak hour and 250 trips occurring during the p.m. peak hour.

The project trip distribution patterns were derived from the select zone model run obtained from the Fresno Council of Governments' (COG's) Activity-Based Model (ABM). The select zone model plot is included in Appendix A. This was further refined to reflect existing and future circulation network in the vicinity of the proposed project.

Currently, within the project vicinity, Peach Avenue, north of Shepherd Avenue, and Perrin Avenue east of Willow Avenue, are yet to be constructed. As such, it is estimated that this segment of Peach Avenue (between southern end of the project and Shepherd Avenue) along with Perrin Avenue east of Willow Avenue (between Willow Avenue and Peach Avenue) would be constructed along with other major developments within the area as part of the Heritage Grove Specific Plan Project envelop. However, since there is no determined timeline for these circulation improvements, two separate project trip distribution patterns were developed for the project, one for existing and near-term scenario, which reflects the existing circulation network in the project vicinity, and another for cumulative long-term scenario, which accounts for completion of Peach Avenue, Clovis Avenue and Perrin Avenue, among other circulation network improvements.

Additionally, as previously mentioned, upon completion of the adjacent residential projects south of the project limit, project trips may utilize the expanded circulation network to travel south and access Peach Avenue, Perrin Avenue or Minnewawa Avenue. However, as a conservative estimate since these developments are yet to be developed and the circulation network is not finalized, it was estimated that all project trips will be utilizing the four project driveways. This would provide a more conservative estimate in determination of operational efficiencies at the project driveways.

Figure 4 illustrates the existing and near-term project trip distribution. Figure 5 illustrates the cumulative scenario project trip distribution. The project trip assignment at the study area intersections is the product of the project trip generation and the corresponding trip distribution percentages. Figure 6 illustrates the existing and near-term conditions project trip assignment at the study area intersections. Figure 7 illustrates the cumulative conditions project trip assignment at the study area intersections.

Analysis Scenarios

The LTA will be prepared based on consultation with City staff and meet the requirements recommended in the City's TIA Guidelines. As recommended in the City's TIA Guidelines, the LOS analysis will examine traffic operations at the study intersections under the following scenarios:

- Existing Conditions;
- Existing Plus Project Conditions;

- Near-Term Plus Project Conditions;
- Cumulative Long-Range Without Project Conditions; and
- Cumulative Long-Range Plus Project Conditions.

Volume Development and Analysis Methodology

Traffic volumes for existing conditions will be developed using existing count data collected at study intersections.

Traffic volumes under near-term plus project conditions will be developed by adding traffic volumes from approved and pending development projects located near the study area and project traffic to existing traffic volumes. LSA will contact City staff and adjacent jurisdictions for a list of approved and pending development projects that are estimated to be completed by the project completion year.

Traffic volumes for cumulative year without project conditions will be developed by using forecast volumes obtained from the Fresno COG ABM. The methodology to develop cumulative year without project traffic volumes at study area intersections will be consistent with the COG's procedures for post-processing of modeled traffic volumes.

Existing and cumulative year plus project traffic volumes will be developed by adding project traffic to the traffic volumes for the corresponding without project scenarios.

For all analysis scenarios, intersection LOS will be calculated using the *Highway Capacity Manual* 7th Edition (HCM 7) analysis methodologies and by using the Synchro 12 software.

Intersection Queuing Analysis

An intersection queuing analysis will be performed at all study intersections. The queuing analysis will be performed using Synchro for signalized intersections and using SimTraffic for unsignalized intersections.

Analysis of Traffic Operations and Recommended Circulation Improvements

LOS without the project will be compared with LOS under plus project scenarios for all analysis scenarios to determine operational deficiencies based on the LOS standards and operational deficiency criteria as applicable for the City. Furthermore, necessary improvements will be recommended to offset any operational deficiencies. Improvements may include addition of intersection turn lanes, changes in traffic control, signalization, etc. The LOS with the proposed improvements will be calculated and summarized, along with a comparison of the LOS without improvements.

Signal Warrant Analysis (if Required)

A peak hour signal warrant analysis would be conducted at unsignalized intersections if a signal is recommended as an improvement. Peak hour approach volumes for study intersections will be examined to determine whether signalization may be warranted per the criteria defined in the California supplement of the *Manual on Uniform Traffic Control Devices* (CA-MUTCD).

Fair-Share Contributions (if Required)

A fair share percentage will be calculated for study intersection improvements recommended in the TIA that are not included in the Measure C program, the City's Development Fee program, or any other funding program. The percentage of fair share for the project will be calculated at each location using the total trips generated by the project divided by the total "new" traffic, which is the net increase in traffic volumes from existing to cumulative year conditions.

Site Access and Circulation Analysis

A site access and circulation analysis will be conducted as per the criteria stated in the City's TIA guidelines. The following issues will be evaluated as part of this analysis:

- Anticipated queues and minimum required throat depth (MRTD) at all project access locations;
- A sight distance analysis at the project driveways including recommended improvements in cases of unsafe traffic conditions; and
- Safety of potential pedestrian paths of travels from the project site to schools, commercial areas, and nearby bus stops.

Safe Routes to School Analysis

Since the project is residential in nature, a safe route to school analysis would be included as part of the LTA. This would analyze the pedestrian and bike facilities en route to school from the project and discuss necessary improvements, if required.

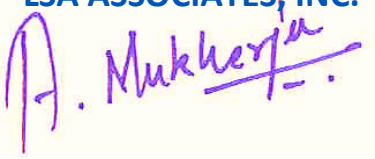
PROJECT VEHICLE MILES TRAVELED ANALYSIS

The TIA will include a Vehicle Miles Traveled (VMT) analysis to meet CEQA requirements. The project VMT analysis will be prepared consistent with the City's TIA Guidelines. As per the City's TIA Guidelines, the project cannot be considered as a small project given that the project exceeds 53 dwelling units. Therefore, a full VMT analysis will be required for the project. For purposes of this analysis, the project-generated VMT per capita will be obtained from the Fresno COG ABM. As per the City's TIA Guidelines, a significant project-generated VMT impact would occur if the project's VMT per capita exceeds a level of 13 percent below the existing County average VMT per capita provided in the guidelines. However, it should be noted that since the project is consistent with the City's General Plan, it may fall under the Statement of Overriding Considerations for the City's General Plan EIR and may not require any additional project specific mitigation measures.

Should you have any questions, please do not hesitate to contact me at (951) 781-9310 or email me at Ambarish.Mukherjee@lsa.net.

Sincerely,

LSA ASSOCIATES, INC.



Ambarish Mukherjee, AICP, PE
Principal

ATTACHMENTS

Table A: Project Trip Generation
Figure 1: Regional and Project Location
Figure 2: Tentative Subdivision Map
Figure 3: Study Area Intersections
Figure 4: Existing and Near-Term Project Trip Distribution
Figure 5: Cumulative Project Trip Distribution
Figure 6: Existing and Near-Term Project Trip Assignment
Figure 7: Cumulative Project Trip Assignment
Appendix A: Fresno COG ABM Select Zone Model Plots

TABLES

LSA

Table A - Project Trip Generation

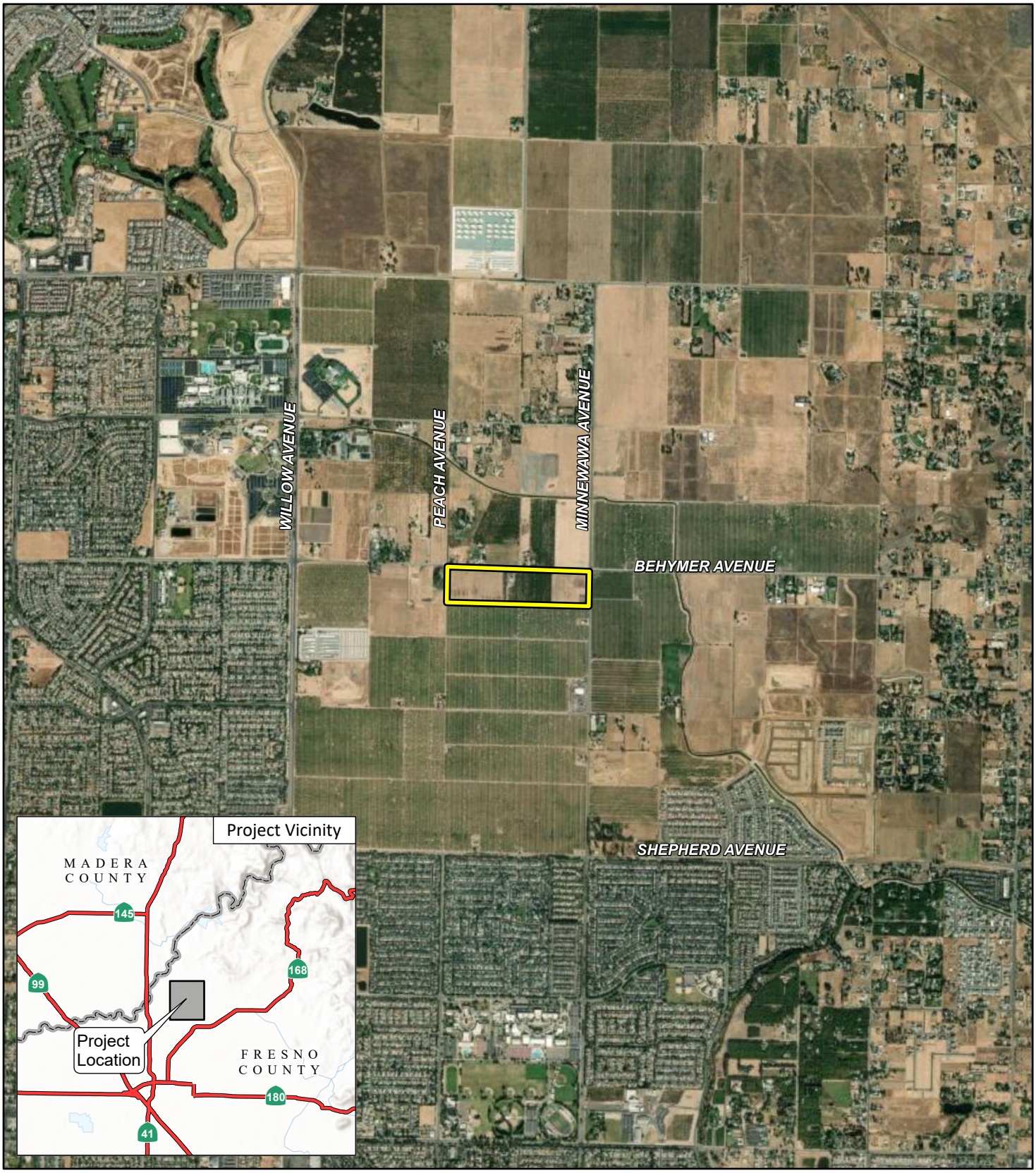
Land Use	Units	A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
Single-Family Detached Housing	266 DU							
Trips/Unit[1]		0.18	0.52	0.70	0.59	0.35	0.94	9.43
Trip Generation		**48**	**138**	**186**	**157**	**93**	**250**	**2,508**

Notes:

DU = Dwelling Units

[1] Rates based on Land Use 210 - "Single-Family Detached Housing" from the Institute of Transportation Engineers (ITE) *Trip Generation Manual* , 11th Edition, Setting/Location - "General Urban/Suburban."

FIGURES



LSA

LEGEND

Project Location

FIGURE 1

N

0 1200 2400

FEET

SOURCE: ESRI Streetmap, 2021; Google Earth, 2022.

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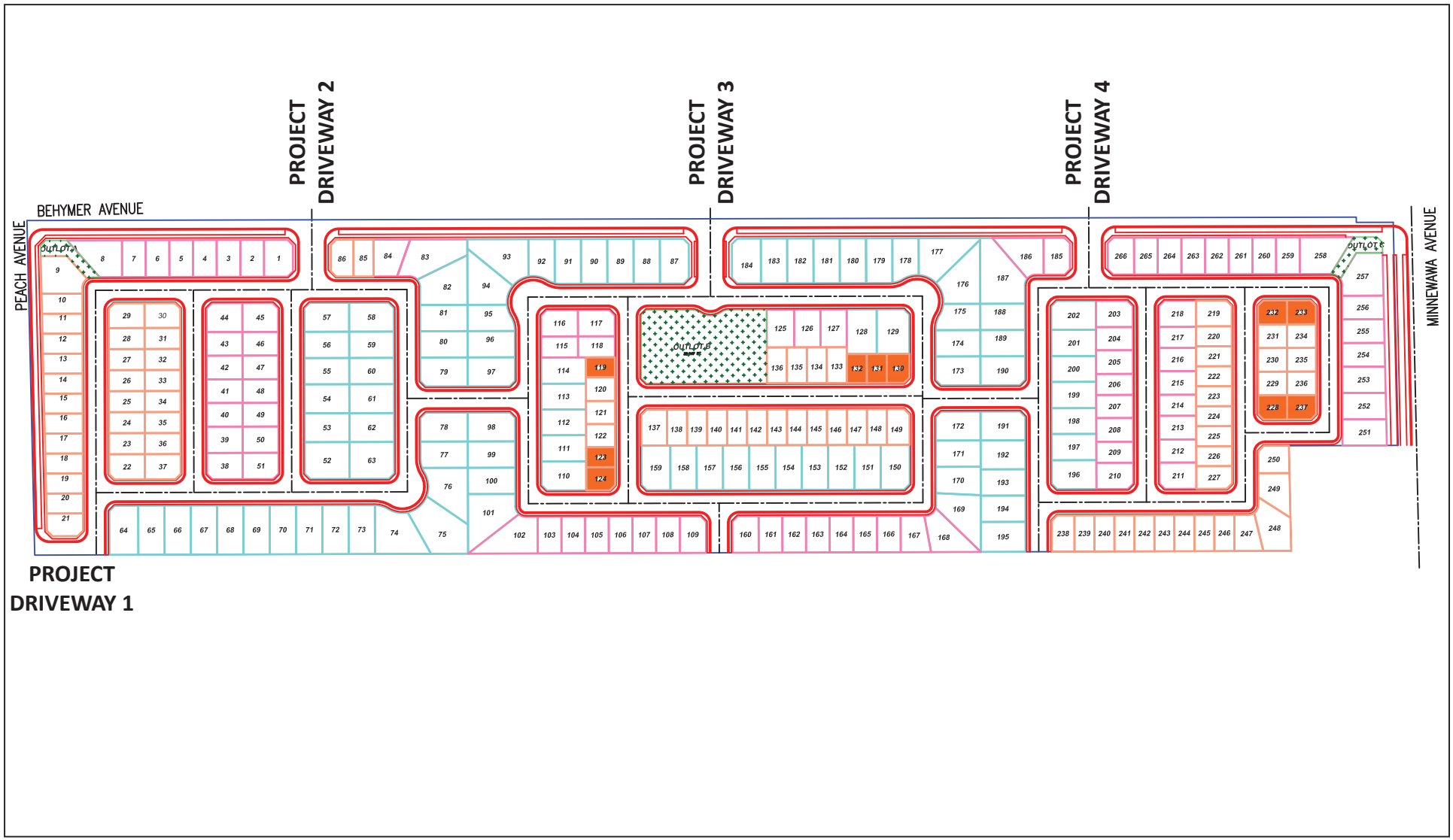
De Young Properties Peach and Behymer Project
Transportation Impact Analysis
Regional and Project Location



LSA

LEGEND

38' X 55' -TYPICAL	10 LOTS	
38' X 68'- TYPICAL	79 LOTS	
45' X 70'- TYPICAL	82 LOTS	
50' X 85'- TYPICAL	95 LOTS	
266 TOTAL SFR LOTS		PARK

N

0 150 300

FEET

FIGURE 2

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Conceptual Site Plan

SOURCE: De Young Properties, February 2024.

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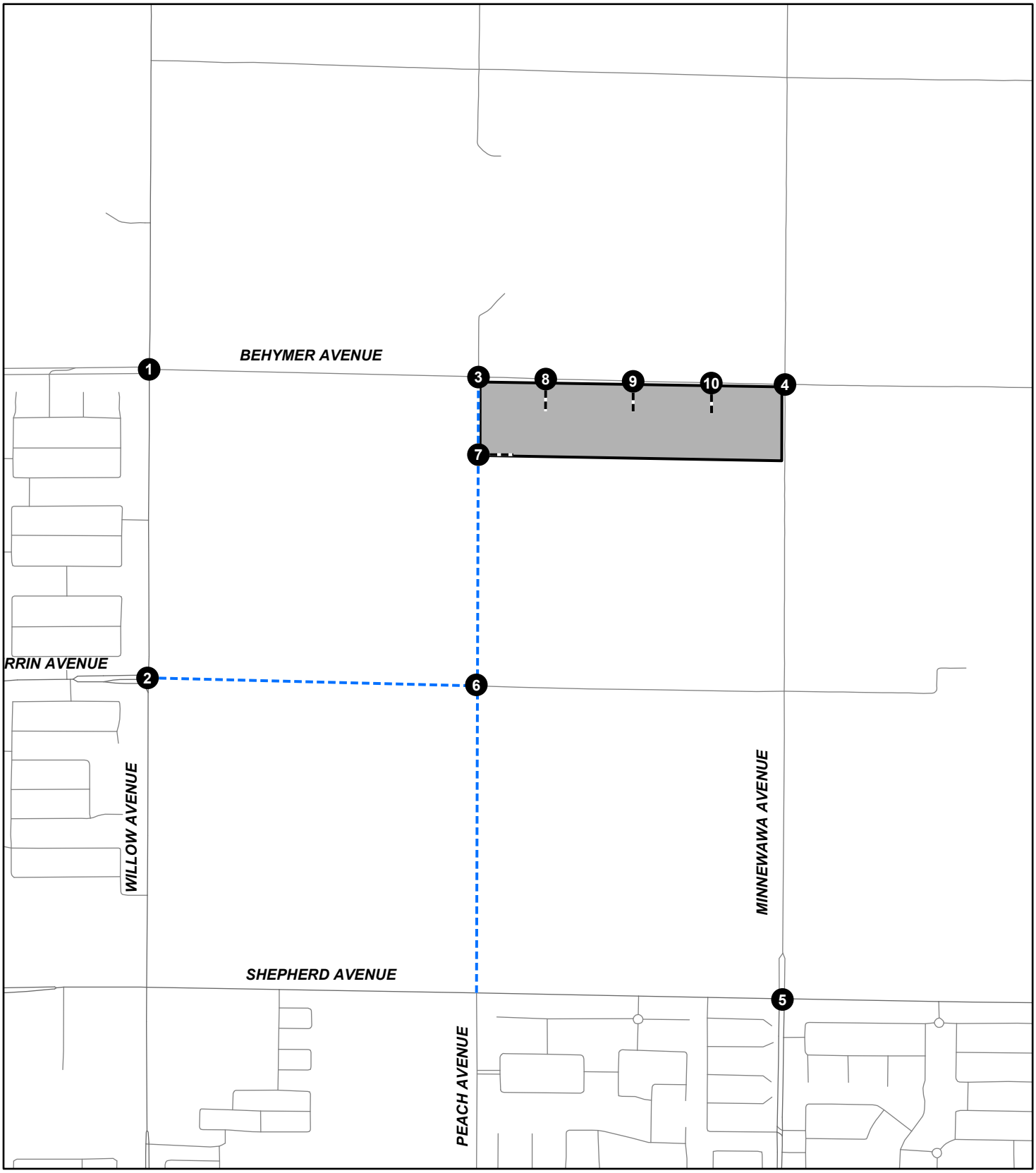

LSA

LEGEND

- Project Location
- Study Intersections
- Project Driveway
- Future Roadway

0 600 1200
FEET

FIGURE 3

De Young Properties Peach and Behymer
Study Intersections

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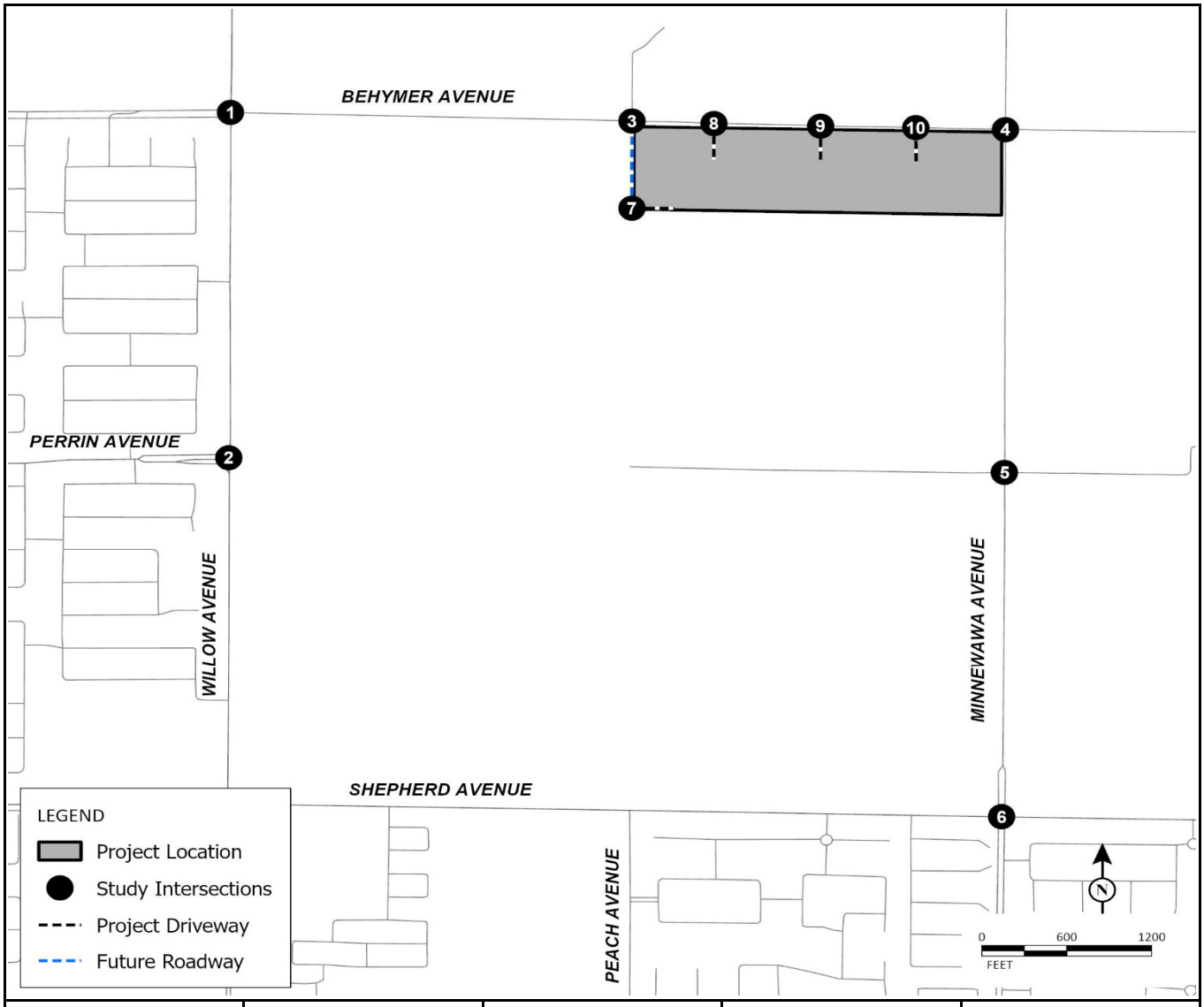

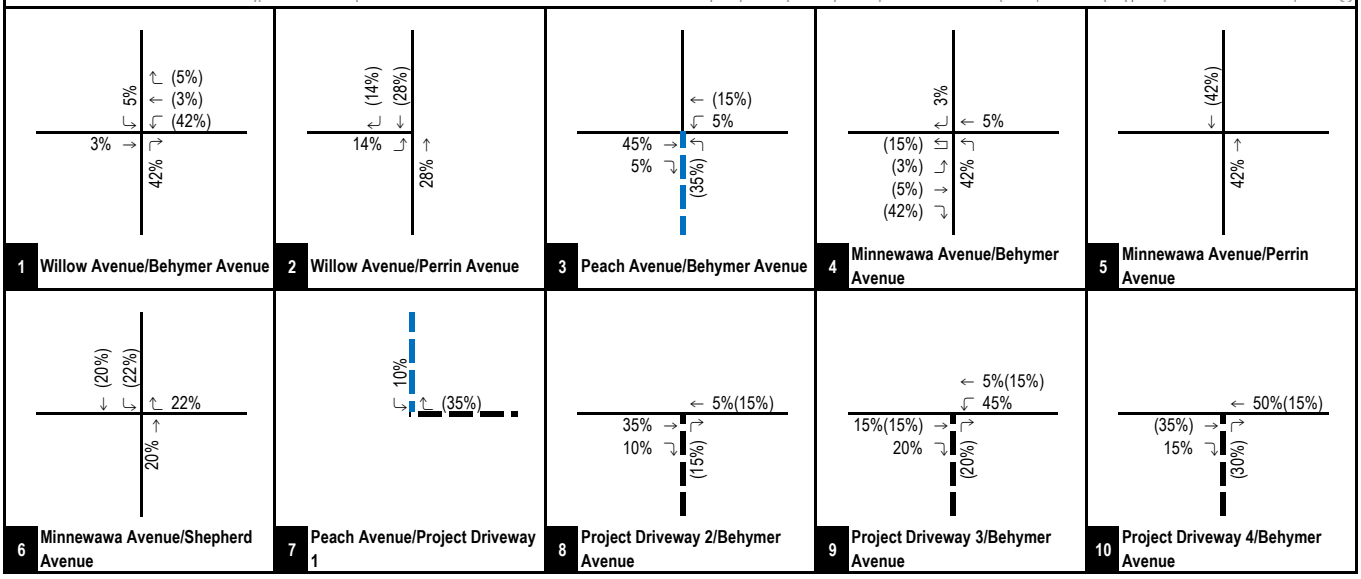

LSA

FIGURE 4

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway
Future Roadway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Existing and Near-Term Project Trip Distribution

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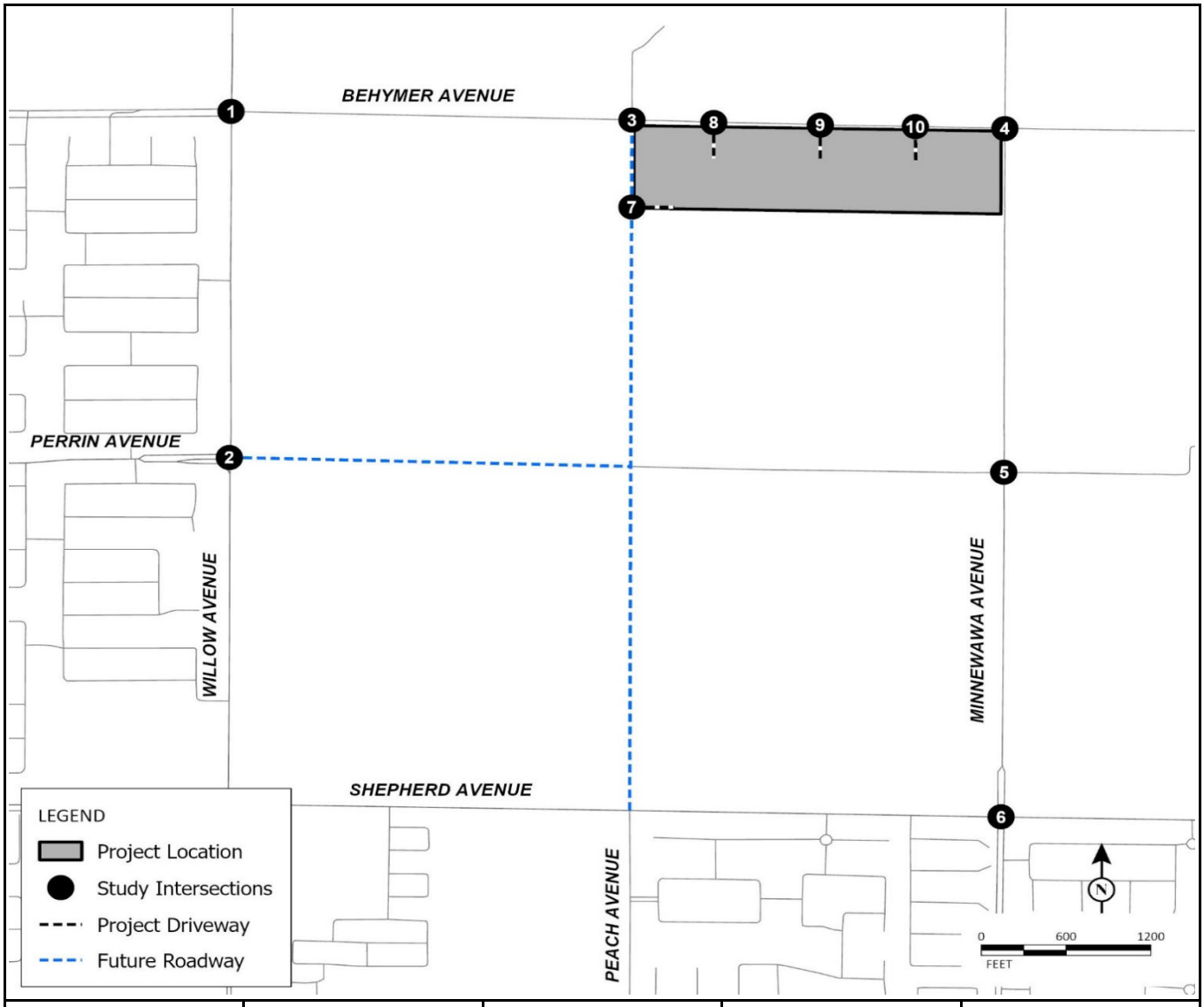

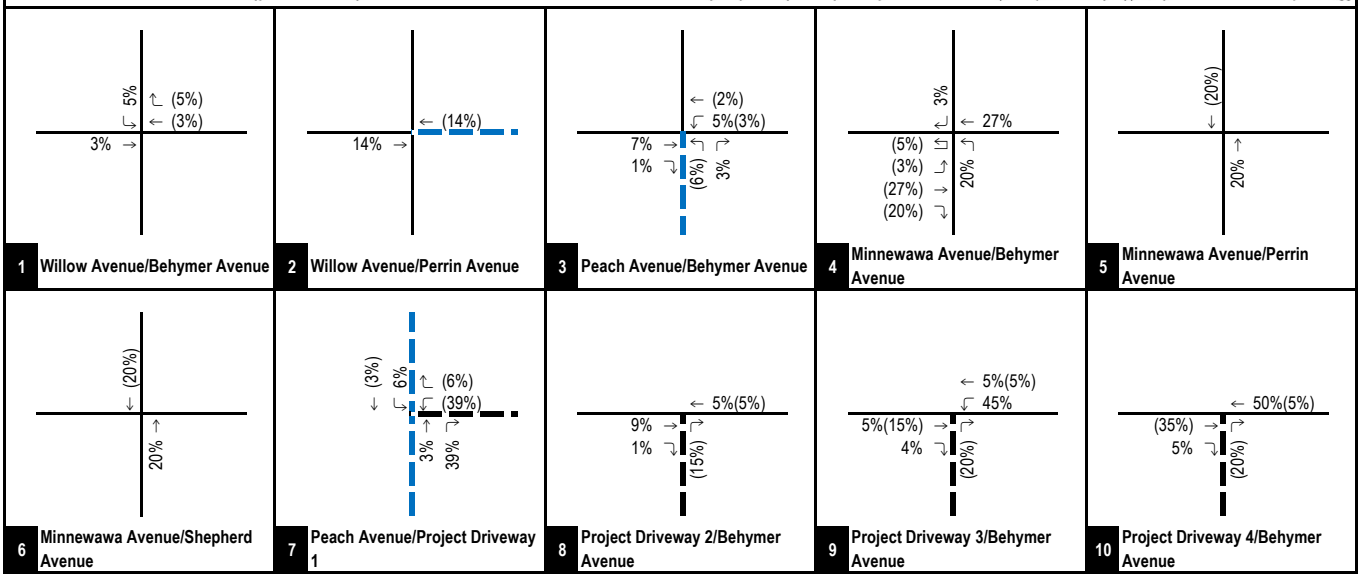

LSA

FIGURE 5

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway
Future Roadway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Cumulative Project Trip Distribution

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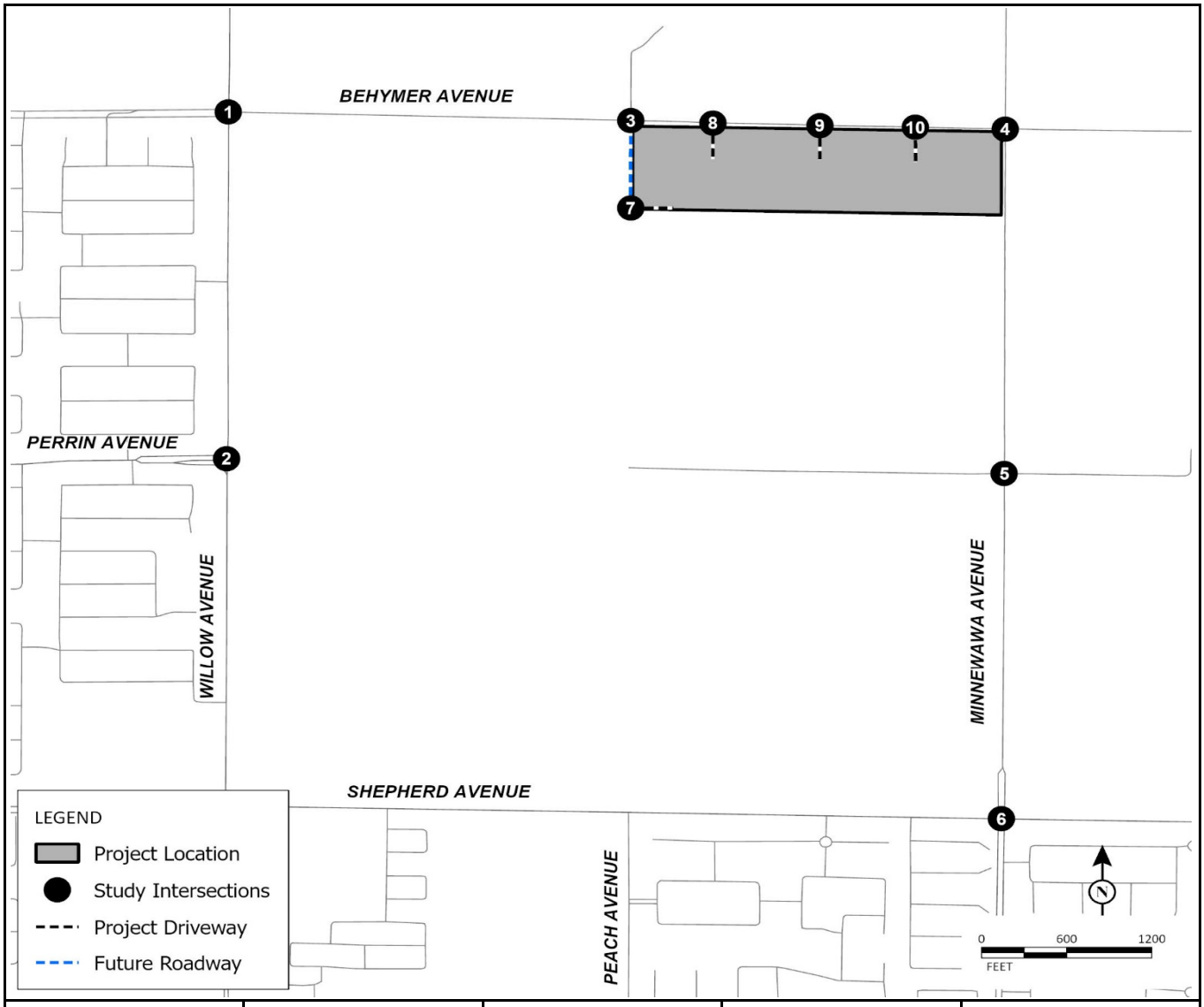

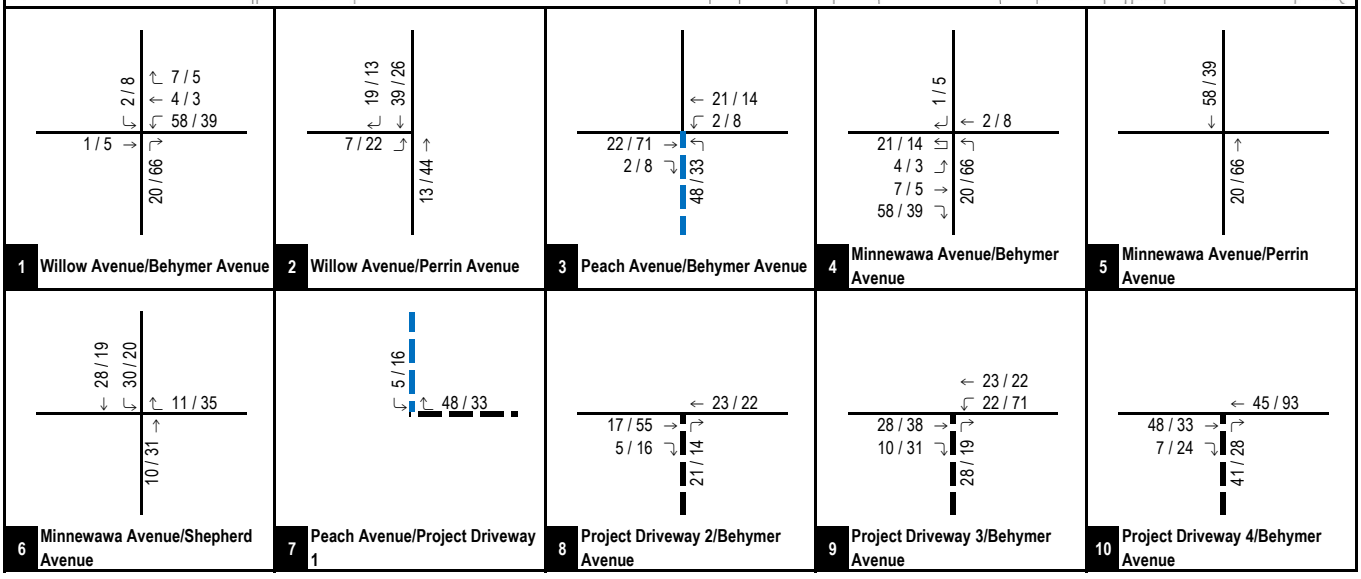

FIGURE 6

LSA

XX / YY
AM / PM Peak Hour Trips
Project Driveway
Future Roadway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Existing and Near-Term Project Trip Assignment

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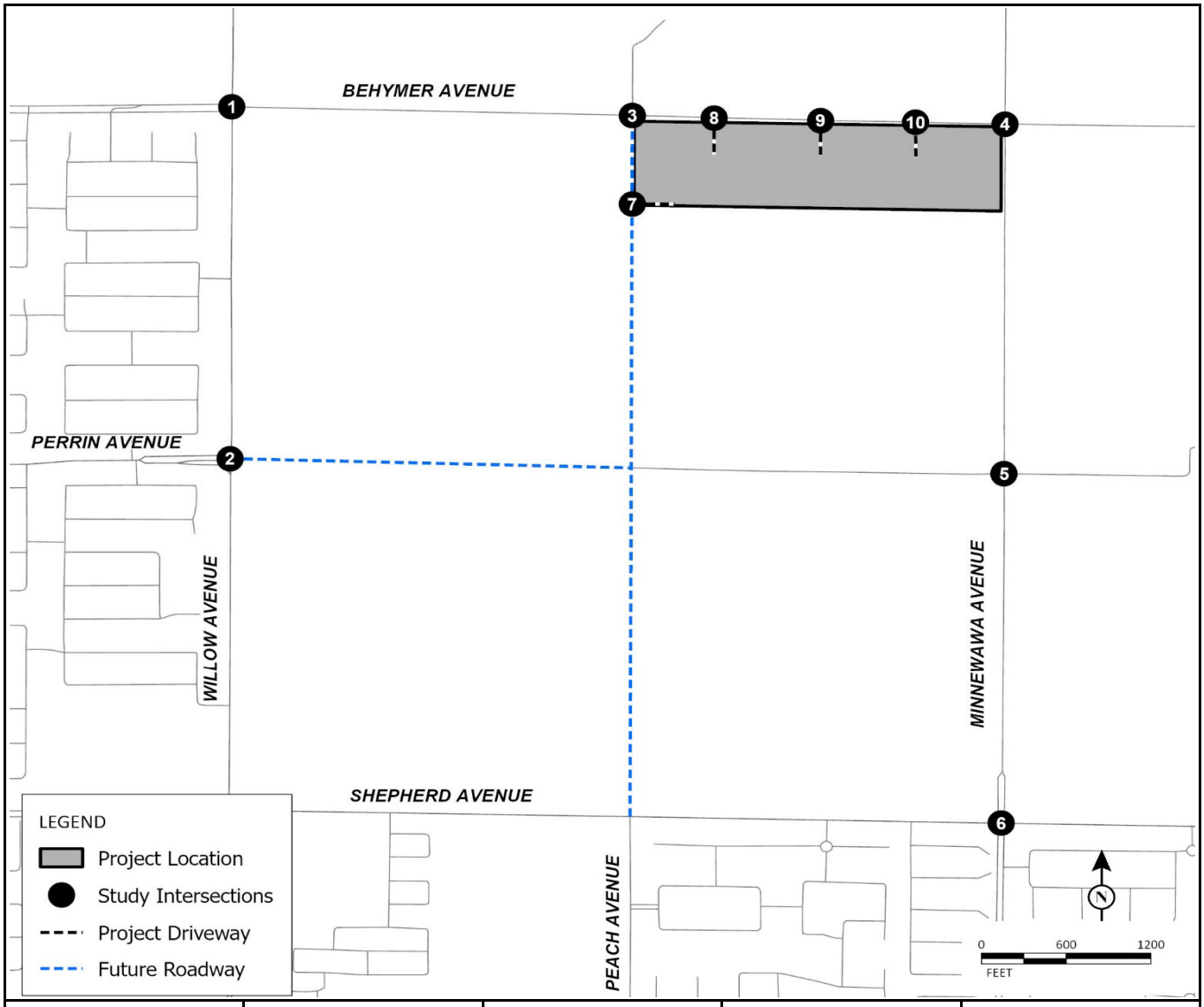

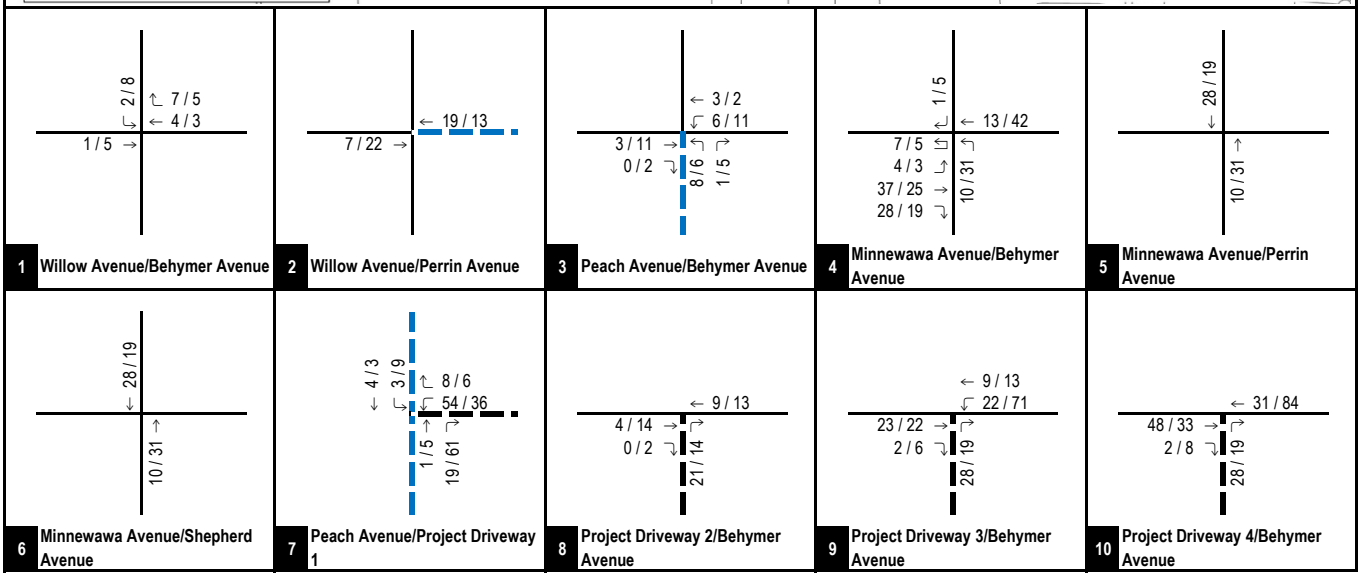

1 Willow Avenue/Behymer Avenue
2 Willow Avenue/Perrin Avenue
3 Peach Avenue/Behymer Avenue
4 Minnewawa Avenue/Behymer Avenue
5 Minnewawa Avenue/Perrin Avenue
6 Minnewawa Avenue/Shepherd Avenue
7 Peach Avenue/Project Driveway 1
8 Project Driveway 2/Behymer Avenue
9 Project Driveway 3/Behymer Avenue
10 Project Driveway 4/Behymer Avenue

LSA

FIGURE 7

XX / YY
AM / PM Peak Hour Trips
Project Driveway
Future Roadway

De Young Properties Peach and Behymer Project
Transportation Impact Analysis

Cumulative Project Trip Assignment

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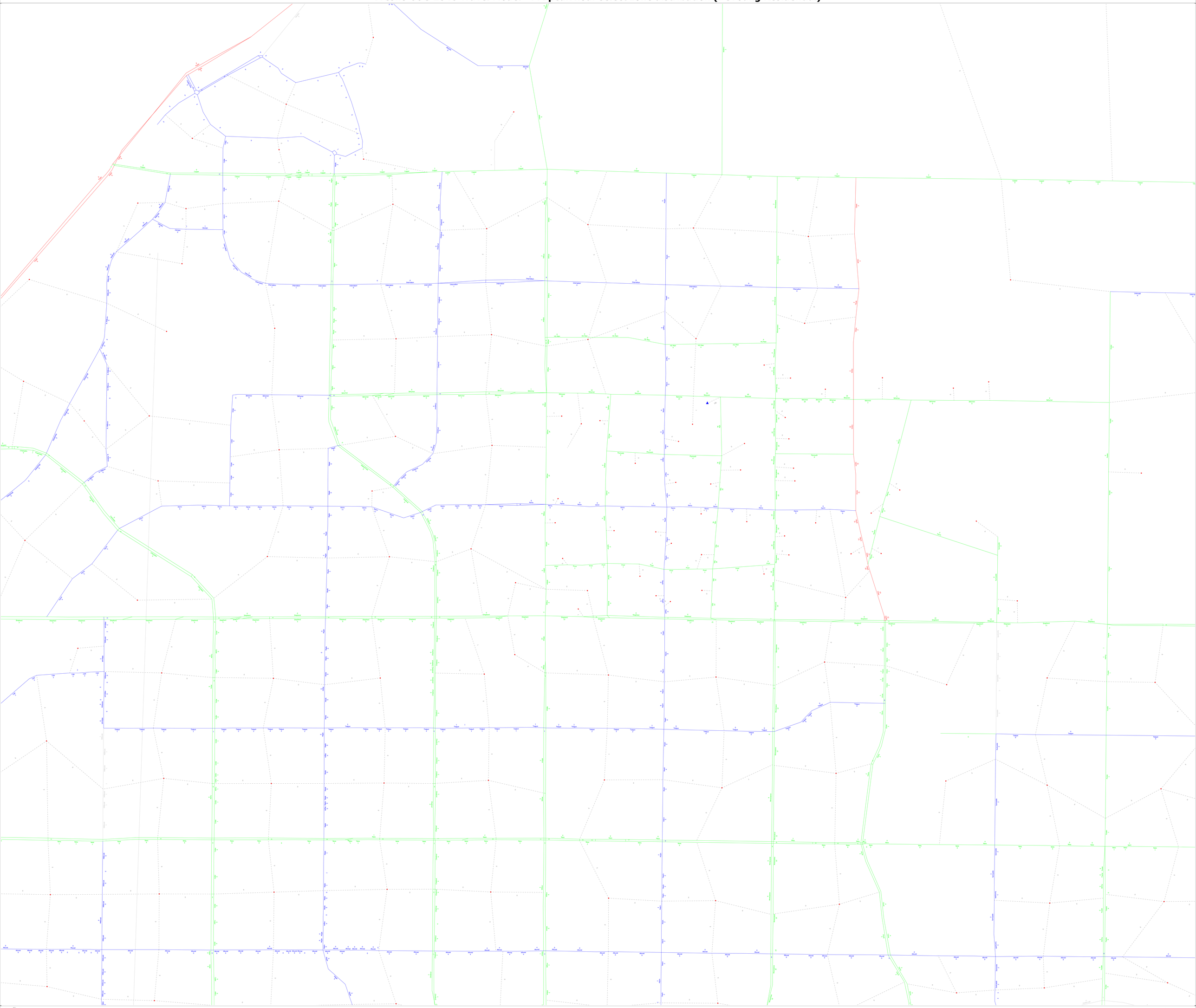
APPENDIX A

FRESNO COG ABM SELECT ZONE MODEL PLOTS

Fresno COG 2046 Travel Model - PM peak hour select zone distribution (DeYoung Residential)



APPENDIX B

VMT CALCULATION WORKSHEETS

LSA

Appendix B
VMT Calculations
De Young Single Family Residential Development

2019	De Young Single Family (Project) *	City of Clovis **
Total project households	266	
Total project population (a)	896	
Percent Population traveling to outside (b) *	7.79%	
Project Population traveling to outside (c=b*a)	70	
Total Internal-Internal (II) Project VMT (d) **	11,132	
Internal project population (e=a-c)	826	
II VMT per capita (f=d/e)	13.5	
IX VMT per capita (g) ***	31.5	
Total IX VMT (h=g*c)	2,199	
Total project VMT (i=d+h)	13,331	
VMT per capita (j=i/a)	14.9	14.1

** : Obtained from "Fresno_worker_ixxifractions.dat" from model inputs. Used same percentages/values as the parent TAZ (248)*

***: Includes all tours and all sub-tours from the ABM model run for VMT estimation*

****: IX VMT per capita was estimated as weighted average for all TAZs in the CSTDM Zone 2569*

APPENDIX C

TRAFFIC COUNT SHEETS AND SIGNAL TIMING SHEETS

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	11	47	5	63	6	12	9	27	7	44	10	61	8	19	22	49	200
07:15 AM	5	82	8	95	14	31	13	58	6	70	3	79	1	22	24	47	279
07:30 AM	6	132	9	147	12	65	34	111	29	106	7	142	9	32	58	99	499
07:45 AM	9	114	3	126	12	62	38	112	24	151	10	185	18	56	75	149	572
Total	31	375	25	431	44	170	94	308	66	371	30	467	36	129	179	344	1550
08:00 AM	20	128	8	156	4	26	42	72	21	172	13	206	21	30	38	89	523
08:15 AM	20	170	23	213	11	18	22	51	30	194	4	228	34	22	36	92	584
08:30 AM	17	199	20	236	5	29	33	67	28	176	4	208	7	21	33	61	572
08:45 AM	13	130	3	146	8	30	42	80	22	143	9	174	1	23	27	51	451
Total	70	627	54	751	28	103	139	270	101	685	30	816	63	96	134	293	2130
Grand Total	101	1002	79	1182	72	273	233	578	167	1056	60	1283	99	225	313	637	3680
Apprch %	8.5	84.8	6.7		12.5	47.2	40.3		13	82.3	4.7		15.5	35.3	49.1		
Total %	2.7	27.2	2.1	32.1	2	7.4	6.3	15.7	4.5	28.7	1.6	34.9	2.7	6.1	8.5	17.3	
Passenger Vehicles	95	982	79	1156	71	268	229	568	158	1040	57	1255	97	225	301	623	3602
% Passenger Vehicles	94.1	98	100	97.8	98.6	98.2	98.3	98.3	94.6	98.5	95	97.8	98	100	96.2	97.8	97.9
Large 2 Axle Vehicles	4	16	0	20	0	5	0	5	9	12	1	22	1	0	12	13	60
% Large 2 Axle Vehicles	4	1.6	0	1.7	0	1.8	0	0.9	5.4	1.1	1.7	1.7	1	0	3.8	2	1.6
3 Axle Vehicles	1	2	0	3	0	0	2	2	0	3	2	5	0	0	0	0	10
% 3 Axle Vehicles	1	0.2	0	0.3	0	0	0.9	0.3	0	0.3	3.3	0.4	0	0	0	0	0.3
4+ Axle Trucks	1	2	0	3	1	0	2	3	0	1	0	1	1	0	0	1	8
% 4+ Axle Trucks	1	0.2	0	0.3	1.4	0	0.9	0.5	0	0.1	0	0.1	1	0	0	0.2	0.2

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	9	114	3	126	**12**	**62**	38	**112**	24	151	10	185	18	**56**	**75**	**149**	572
08:00 AM	**20**	128	8	156	4	26	**42**	72	21	172	**13**	206	21	30	38	89	523
08:15 AM	20	170	**23**	213	11	18	22	51	**30**	**194**	4	**228**	**34**	22	36	92	**584**
08:30 AM	17	**199**	20	**236**	5	29	33	67	28	176	4	208	7	21	33	61	572
Total Volume	66	611	54	731	32	135	135	302	103	693	31	827	80	129	182	391	2251
% App. Total	9	83.6	7.4		10.6	44.7	44.7		12.5	83.8	3.7		20.5	33	46.5		
PHF	.825	.768	.587	.774	.667	.544	.804	.674	.858	.893	.596	.907	.588	.576	.607	.656	.964

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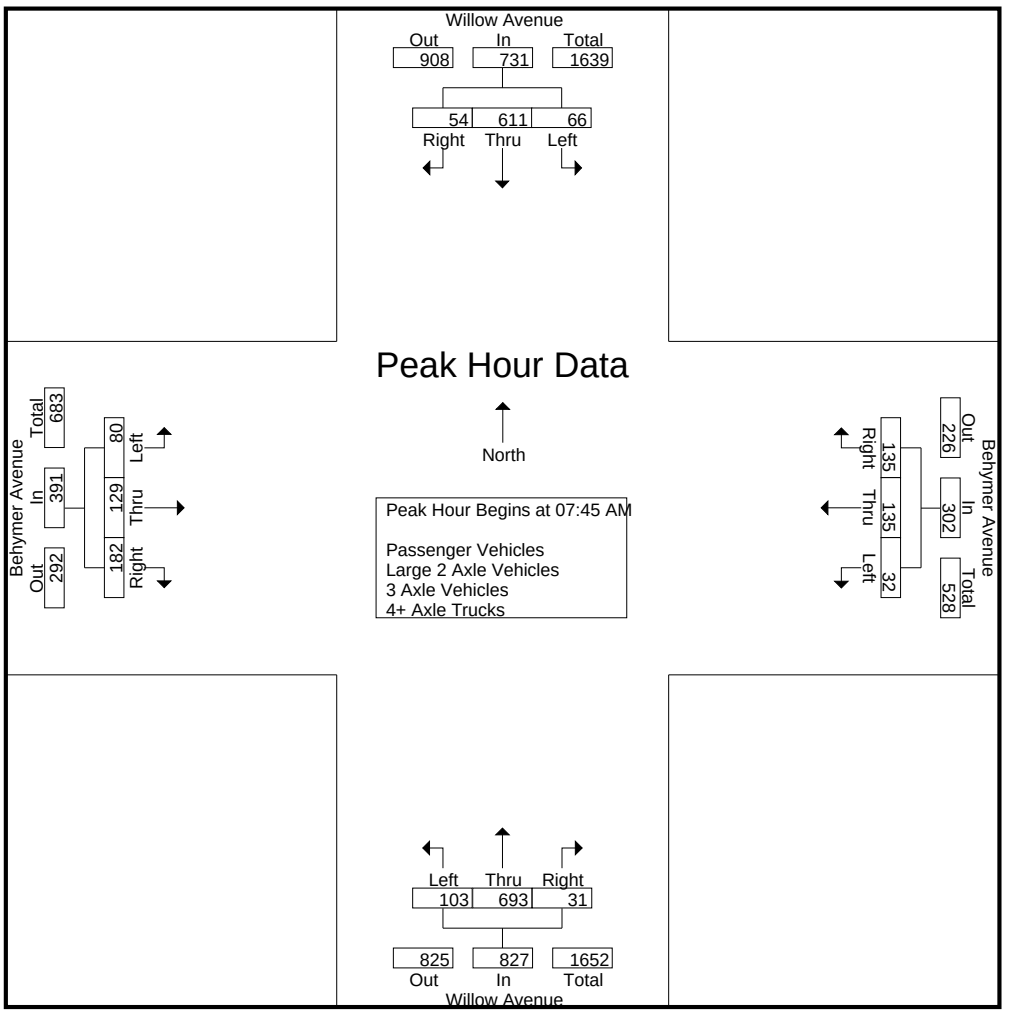
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				07:15 AM				07:45 AM				07:30 AM			
+0 mins.	**20**	128	8	156	**14**	31	13	58	24	151	10	185	9	32	58	99
+15 mins.	20	170	**23**	213	12	**65**	34	111	21	172	**13**	206	18	**56**	**75**	**149**
+30 mins.	17	**199**	20	**236**	12	62	38	**112**	**30**	**194**	4	**228**	21	30	38	89
+45 mins.	13	130	3	146	4	26	**42**	72	28	176	4	208	**34**	22	36	92
Total Volume	70	627	54	751	42	184	127	353	103	693	31	827	82	140	207	429
% App. Total	9.3	83.5	7.2		11.9	52.1	36		12.5	83.8	3.7		19.1	32.6	48.3	
PHF	.875	.788	.587	.796	.750	.708	.756	.788	.858	.893	.596	.907	.603	.625	.690	.720

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
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Groups Printed- Passenger Vehicles

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	11	45	5	61	6	11	8	25	5	43	9	57	8	19	22	49	192
07:15 AM	5	80	8	93	14	31	12	57	5	68	3	76	1	22	22	45	271
07:30 AM	6	131	9	146	12	64	33	109	28	104	7	139	9	32	57	98	492
07:45 AM	8	114	3	125	12	62	38	112	23	150	8	181	18	56	72	146	564
Total	30	370	25	425	44	168	91	303	61	365	27	453	36	129	173	338	1519
08:00 AM	18	121	8	147	4	23	41	68	18	168	13	199	20	30	38	88	502
08:15 AM	18	165	23	206	10	18	22	50	30	191	4	225	33	22	33	88	569
08:30 AM	17	196	20	233	5	29	33	67	27	175	4	206	7	21	31	59	565
08:45 AM	12	130	3	145	8	30	42	80	22	141	9	172	1	23	26	50	447
Total	65	612	54	731	27	100	138	265	97	675	30	802	61	96	128	285	2083
Grand Total	95	982	79	1156	71	268	229	568	158	1040	57	1255	97	225	301	623	3602
Apprch %	8.2	84.9	6.8		12.5	47.2	40.3		12.6	82.9	4.5		15.6	36.1	48.3		
Total %	2.6	27.3	2.2	32.1	2	7.4	6.4	15.8	4.4	28.9	1.6	34.8	2.7	6.2	8.4	17.3	

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	8	114	3	125	**12**	**62**	38	**112**	23	150	8	181	18	**56**	**72**	**146**	564
08:00 AM	**18**	121	8	147	4	23	**41**	68	18	168	**13**	199	20	30	38	88	502
08:15 AM	18	165	**23**	206	10	18	22	50	**30**	**191**	4	**225**	**33**	22	33	88	**569**
08:30 AM	17	**196**	20	**233**	5	29	33	67	27	175	4	206	7	21	31	59	565
Total Volume	61	596	54	711	31	132	134	297	98	684	29	811	78	129	174	381	2200
% App. Total	8.6	83.8	7.6		10.4	44.4	45.1		12.1	84.3	3.6		20.5	33.9	45.7		
PHF	.847	.760	.587	.763	.646	.532	.817	.663	.817	.895	.558	.901	.591	.576	.604	.652	.967

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
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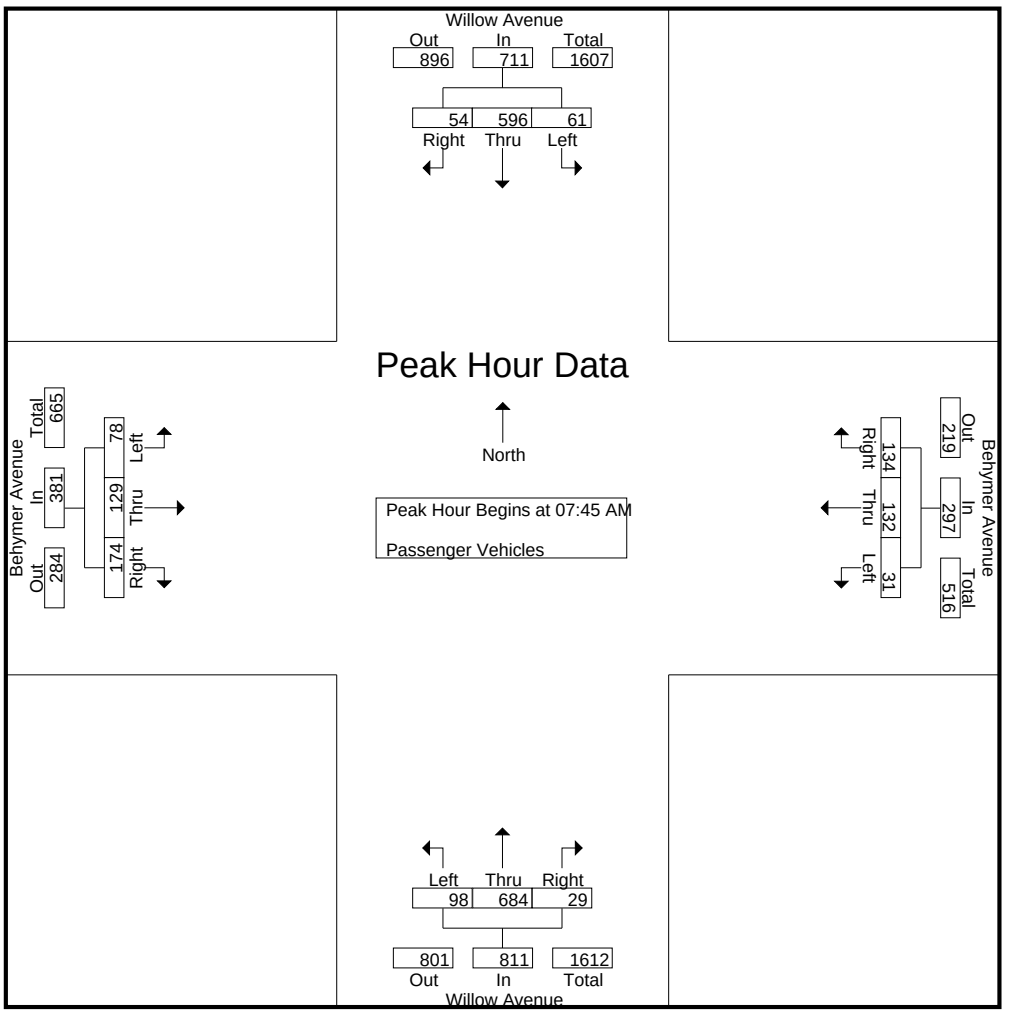

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	8	114	3	125	**12**	**62**	38	**112**	23	150	8	181	18	**56**	**72**	**146**
+15 mins.	**18**	121	8	147	4	23	**41**	68	18	168	**13**	199	20	30	38	88
+30 mins.	18	165	**23**	206	10	18	22	50	**30**	**191**	4	**225**	**33**	22	33	88
+45 mins.	17	**196**	20	**233**	5	29	33	67	27	175	4	206	7	21	31	59
Total Volume	61	596	54	711	31	132	134	297	98	684	29	811	78	129	174	381
% App. Total	8.6	83.8	7.6		10.4	44.4	45.1		12.1	84.3	3.6		20.5	33.9	45.7	
PHF	.847	.760	.587	.763	.646	.532	.817	.663	.817	.895	.558	.901	.591	.576	.604	.652

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	2	0	2	0	1	0	1	2	0	1	3	0	0	0	0	6
07:15 AM	0	2	0	2	0	0	0	0	1	2	0	3	0	0	2	2	7
07:30 AM	0	1	0	1	0	1	0	1	1	1	0	2	0	0	1	1	5
07:45 AM	0	0	0	0	0	0	0	0	1	1	0	2	0	0	3	3	5
Total	0	5	0	5	0	2	0	2	5	4	1	10	0	0	6	6	23
08:00 AM	2	4	0	6	0	3	0	3	3	3	0	6	0	0	0	0	15
08:15 AM	2	4	0	6	0	0	0	0	0	3	0	3	1	0	3	4	13
08:30 AM	0	3	0	3	0	0	0	0	1	1	0	2	0	0	2	2	7
08:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1	2
Total	4	11	0	15	0	3	0	3	4	8	0	12	1	0	6	7	37
Grand Total	4	16	0	20	0	5	0	5	9	12	1	22	1	0	12	13	60
Apprch %	20	80	0		0	100	0		40.9	54.5	4.5		7.7	0	92.3		
Total %	6.7	26.7	0	33.3	0	8.3	0	8.3	15	20	1.7	36.7	1.7	0	20	21.7	

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	1	1	0	2	0	0	**3**	3	5
08:00 AM	**2**	**4**	0	**6**	0	**3**	0	**3**	**3**	**3**	0	**6**	0	0	0	0	**15**
08:15 AM	2	4	0	6	0	0	0	0	0	3	0	3	**1**	0	3	**4**	13
08:30 AM	0	3	0	3	0	0	0	0	1	1	0	2	0	0	2	2	7
Total Volume	4	11	0	15	0	3	0	3	5	8	0	13	1	0	8	9	40
% App. Total	26.7	73.3	0		0	100	0		38.5	61.5	0		11.1	0	88.9		
PHF	.500	.688	.000	.625	.000	.250	.000	.250	.417	.667	.000	.542	.250	.000	.667	.563	.667

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
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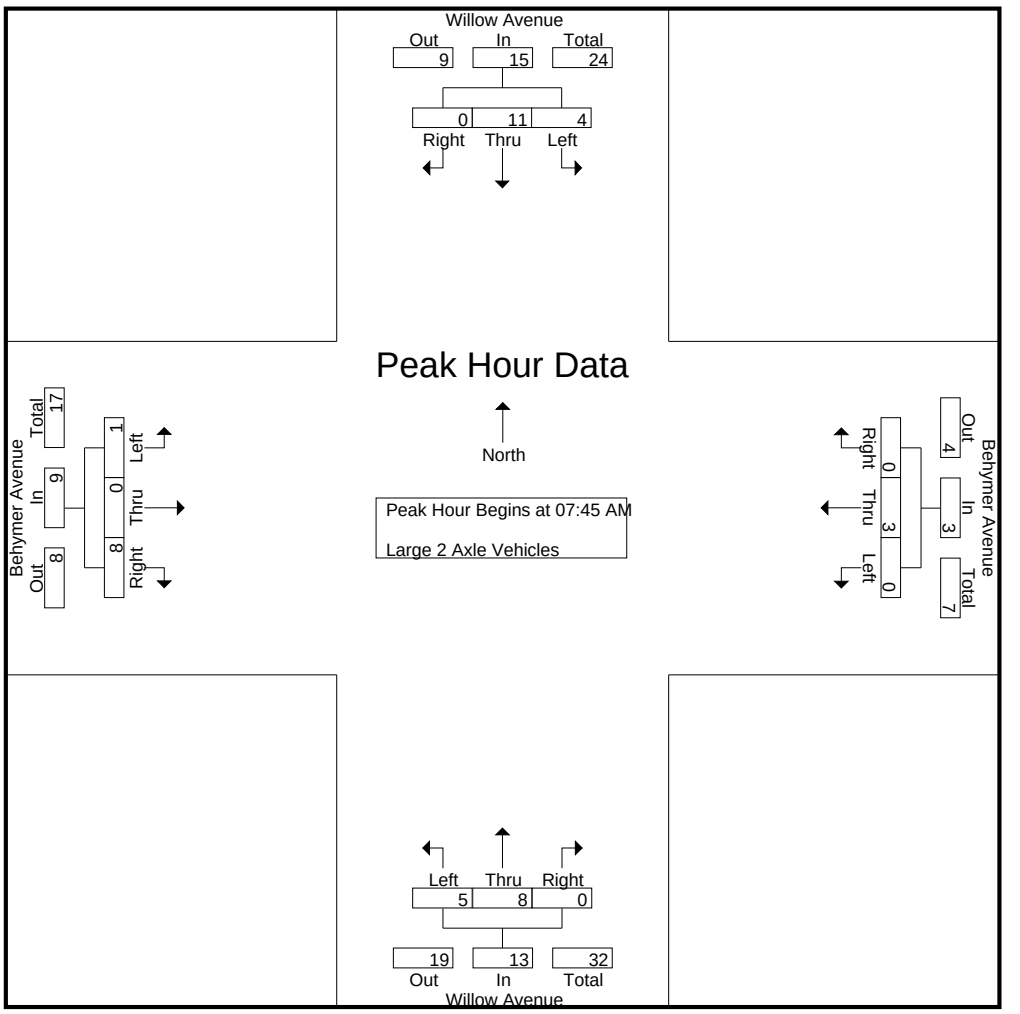

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	0	0	0	0	0	0	1	1	0	2	0	0	**3**	3
+15 mins.	**2**	**4**	0	**6**	0	**3**	0	**3**	**3**	**3**	0	**6**	0	0	0	0
+30 mins.	2	4	0	6	0	0	0	0	0	3	0	3	**1**	0	3	**4**
+45 mins.	0	3	0	3	0	0	0	0	1	1	0	2	0	0	2	2
Total Volume	4	11	0	15	0	3	0	3	5	8	0	13	1	0	8	9
% App. Total	26.7	73.3	0		0	100	0		38.5	61.5	0		11.1	0	88.9	
PHF	.500	.688	.000	.625	.000	.250	.000	.250	.417	.667	.000	.542	.250	.000	.667	.563

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1
07:30 AM	0	0	0	0	0	0	1	1	0	1	0	1	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2
Total	0	0	0	0	0	0	2	2	0	1	2	3	0	0	0	0	5
08:00 AM	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
08:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	1	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
Total	1	2	0	3	0	0	0	0	0	2	0	2	0	0	0	0	5
Grand Total	1	2	0	3	0	0	2	2	0	3	2	5	0	0	0	0	10
Apprch %	33.3	66.7	0		0	0	100		0	60	40		0	0	0		
Total %	10	20	0	30	0	0	20	20	0	30	20	50	0	0	0	0	

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	0	0	0	0	0	0	0	0	0	**2**	**2**	0	0	0	0	**2**
08:00 AM	0	**1**	0	**1**	0	0	0	0	0	**1**	0	1	0	0	0	0	2
08:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	2	0	2	0	0	0	0	0	1	2	3	0	0	0	0	5
% App. Total	0	100	0		0	0	0		0	33.3	66.7		0	0	0		
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.000	.250	.250	.375	.000	.000	.000	.000	.625

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
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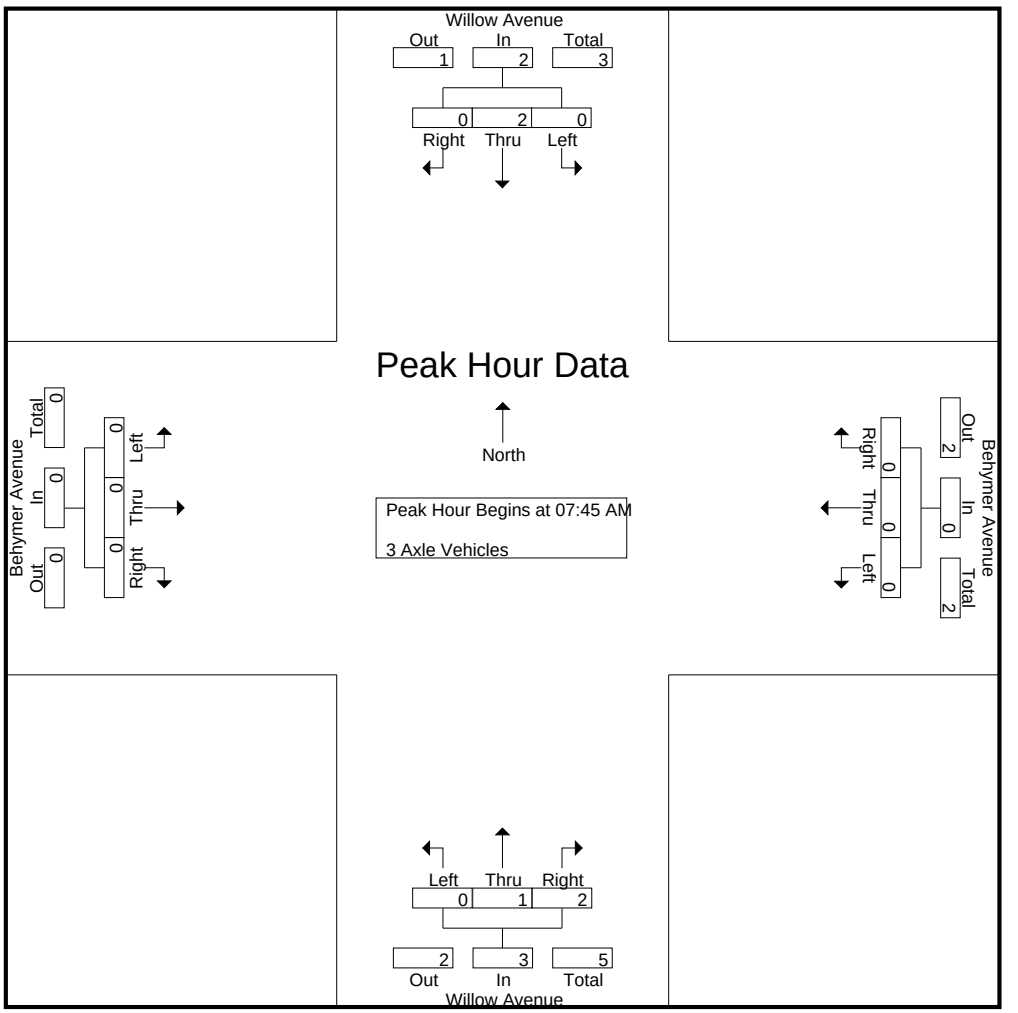

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	**2**	**2**	0	0	0	0
+15 mins.	0	**1**	0	**1**	0	0	0	0	0	**1**	0	1	0	0	0	0
+30 mins.	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	2	0	2	0	0	0	0	0	1	2	3	0	0	0	0
% App. Total	0	100	0		0	0	0		0	33.3	66.7		0	0	0	
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.000	.250	.250	.375	.000	.000	.000	.000

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
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File Name : 13_CVS_Will_Beh AMC
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Groups Printed- 4+ Axle Trucks

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	1	1	0	1	0	1	0	0	0	0	2
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	1	0	0	1	0	0	1	1	0	1	0	1	0	0	0	0	3
08:00 AM	0	2	0	2	0	0	1	1	0	0	0	0	1	0	0	1	4
08:15 AM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	0	2	1	0	1	2	0	0	0	0	1	0	0	1	5
Grand Total	1	2	0	3	1	0	2	3	0	1	0	1	1	0	0	1	8
Apprch %	33.3	66.7	0		33.3	0	66.7		0	100	0		100	0	0		
Total %	12.5	25	0	37.5	12.5	0	25	37.5	0	12.5	0	12.5	12.5	0	0	12.5	

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	**1**	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:00 AM	0	**2**	0	**2**	0	0	**1**	**1**	0	0	0	0	**1**	0	0	**1**	**4**
08:15 AM	0	0	0	0	**1**	0	0	1	0	0	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	2	0	3	1	0	1	2	0	0	0	0	1	0	0	1	6
% App. Total	33.3	66.7	0		50	0	50		0	0	0		100	0	0		
PHF	.250	.250	.000	.375	.250	.000	.250	.500	.000	.000	.000	.000	.250	.000	.000	.250	.375

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City of Clovis
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File Name : 13_CVS_Will_Beh AMC
Site Code : 00324176
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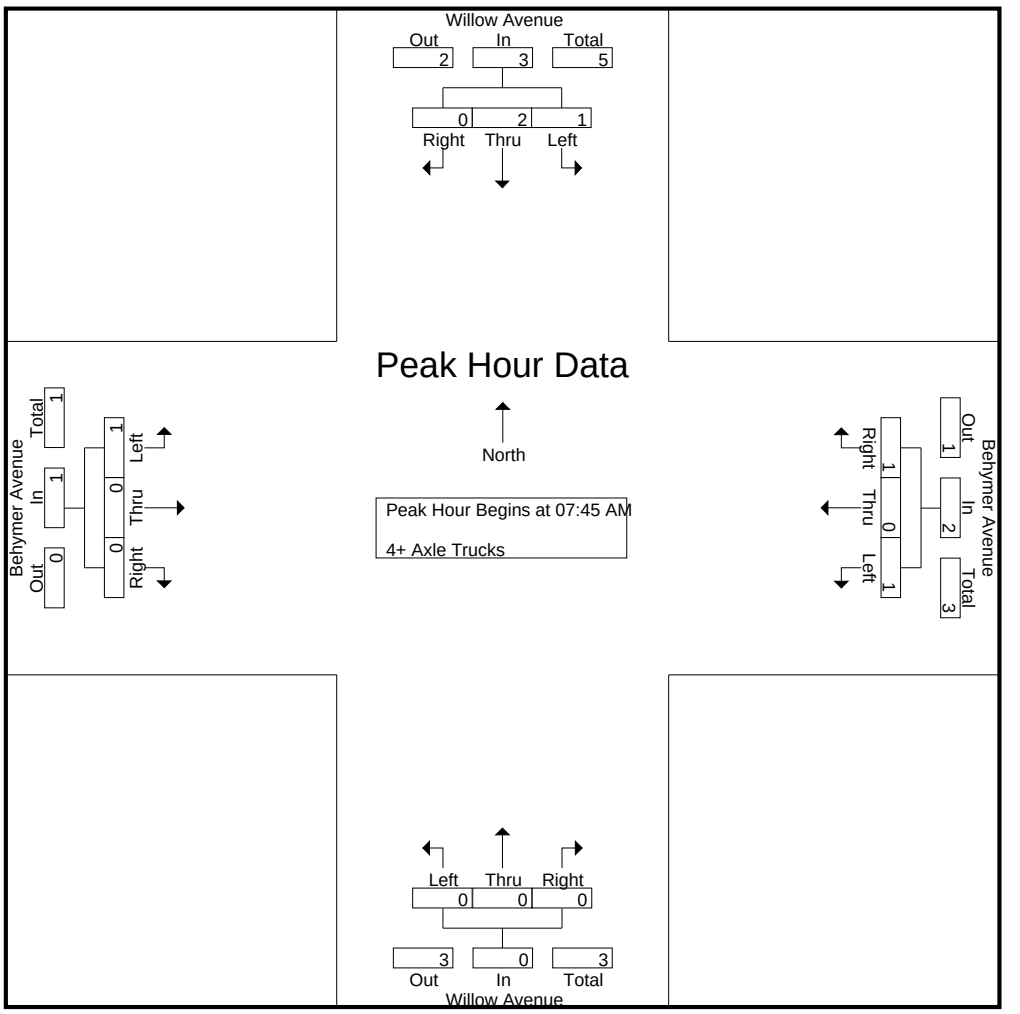

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:45 AM				07:45 AM				07:45 AM			
+0 mins.	**1**	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	**2**	0	**2**	0	0	**1**	**1**	0	0	0	0	**1**	0	0	**1**
+30 mins.	0	0	0	0	**1**	0	0	1	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	2	0	3	1	0	1	2	0	0	0	0	1	0	0	1
% App. Total	33.3	66.7	0		50	0	50		0	0	0		100	0	0	
PHF	.250	.250	.000	.375	.250	.000	.250	.500	.000	.000	.000	.000	.250	.000	.000	.250

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	37	127	3	167	17	34	21	72	28	138	15	181	9	20	36	65	485
04:15 PM	21	119	3	143	15	30	14	59	18	114	14	146	5	20	20	45	393
04:30 PM	40	145	11	196	7	29	18	54	26	157	18	201	5	18	22	45	496
04:45 PM	20	123	8	151	10	30	20	60	23	139	16	178	4	18	33	55	444
Total	118	514	25	657	49	123	73	245	95	548	63	706	23	76	111	210	1818
05:00 PM	37	170	14	221	9	37	21	67	24	162	14	200	4	40	39	83	571
05:15 PM	26	121	5	152	17	38	25	80	35	169	15	219	4	23	28	55	506
05:30 PM	18	144	13	175	13	25	34	72	25	182	14	221	7	25	30	62	530
05:45 PM	14	125	8	147	16	38	39	93	35	218	11	264	6	16	24	46	550
Total	95	560	40	695	55	138	119	312	119	731	54	904	21	104	121	246	2157
Grand Total	213	1074	65	1352	104	261	192	557	214	1279	117	1610	44	180	232	456	3975
Apprch %	15.8	79.4	4.8		18.7	46.9	34.5		13.3	79.4	7.3		9.6	39.5	50.9		
Total %	5.4	27	1.6	34	2.6	6.6	4.8	14	5.4	32.2	2.9	40.5	1.1	4.5	5.8	11.5	
Passenger Vehicles	212	1067	65	1344	104	261	190	555	210	1271	116	1597	44	174	230	448	3944
% Passenger Vehicles	99.5	99.3	100	99.4	100	100	99	99.6	98.1	99.4	99.1	99.2	100	96.7	99.1	98.2	99.2
Large 2 Axle Vehicles	1	6	0	7	0	0	2	2	4	4	1	9	0	6	2	8	26
% Large 2 Axle Vehicles	0.5	0.6	0	0.5	0	0	1	0.4	1.9	0.3	0.9	0.6	0	3.3	0.9	1.8	0.7
3 Axle Vehicles	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	3
% 3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0.2	0	0.2	0	0	0	0	0.1
4+ Axle Trucks	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
% 4+ Axle Trucks	0	0.1	0	0.1	0	0	0	0	0	0.1	0	0.1	0	0	0	0	0.1

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	**37**	**170**	**14**	**221**	9	37	21	67	24	162	14	200	4	**40**	**39**	**83**	**571**
05:15 PM	26	121	5	152	**17**	**38**	25	80	**35**	169	**15**	219	4	23	28	55	506
05:30 PM	18	144	13	175	13	25	34	72	25	182	14	221	**7**	25	30	62	530
05:45 PM	14	125	8	147	16	38	**39**	**93**	35	**218**	11	**264**	6	16	24	46	550
Total Volume	95	560	40	695	55	138	119	312	119	731	54	904	21	104	121	246	2157
% App. Total	13.7	80.6	5.8		17.6	44.2	38.1		13.2	80.9	6		8.5	42.3	49.2		
PHF	.642	.824	.714	.786	.809	.908	.763	.839	.850	.838	.900	.856	.750	.650	.776	.741	.944

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City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
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File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
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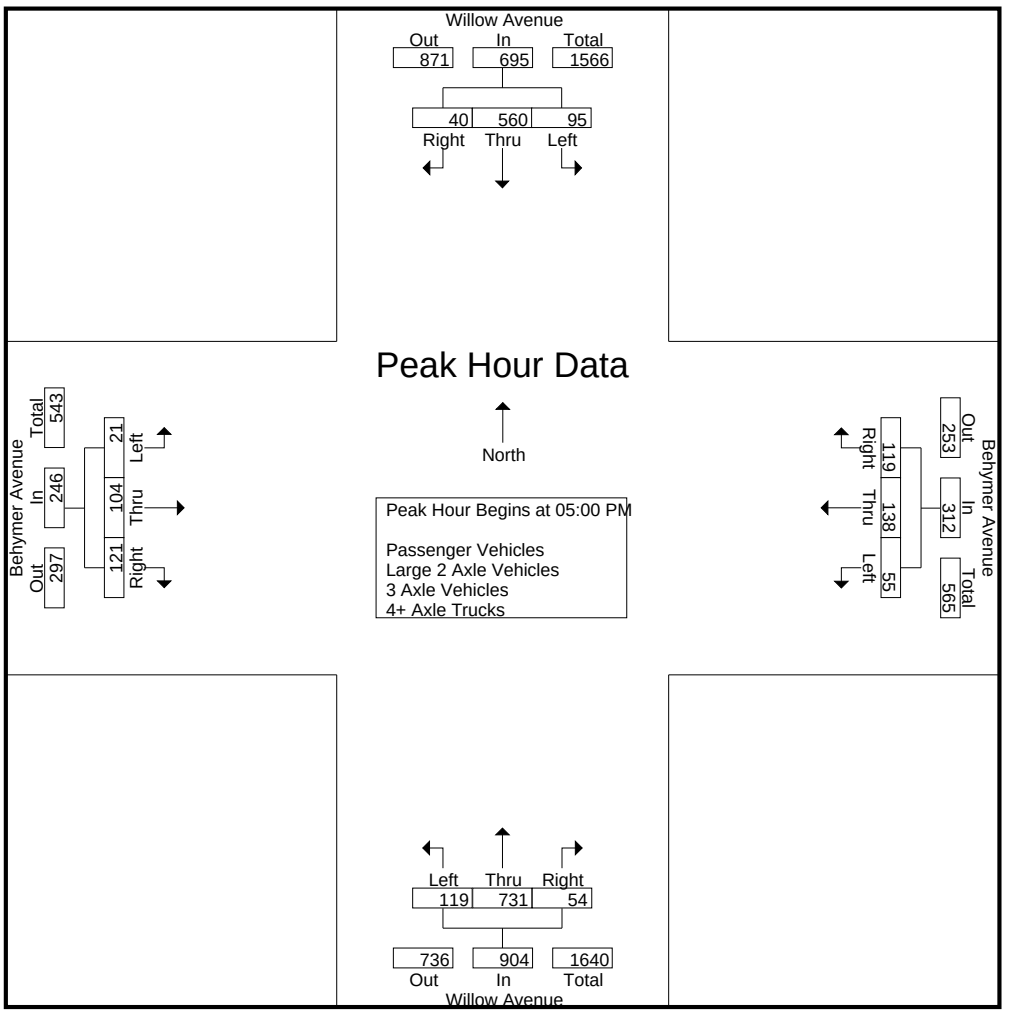

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				05:00 PM				05:00 PM				04:45 PM			
+0 mins.	**40**	145	11	196	9	37	21	67	24	162	14	200	4	18	33	55
+15 mins.	20	123	8	151	**17**	**38**	25	80	**35**	169	**15**	219	4	**40**	**39**	**83**
+30 mins.	37	**170**	**14**	**221**	13	25	34	72	25	182	14	221	4	23	28	55
+45 mins.	26	121	5	152	16	38	**39**	**93**	35	**218**	11	**264**	**7**	25	30	62
Total Volume	123	559	38	720	55	138	119	312	119	731	54	904	19	106	130	255
% App. Total	17.1	77.6	5.3		17.6	44.2	38.1		13.2	80.9	6		7.5	41.6	51	
PHF	.769	.822	.679	.814	.809	.908	.763	.839	.850	.838	.900	.856	.679	.663	.833	.768

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City of Clovis
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Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
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Groups Printed- Passenger Vehicles

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	37	125	3	165	17	34	21	72	28	137	15	180	9	19	36	64	481
04:15 PM	20	118	3	141	15	30	14	59	17	113	14	144	5	19	19	43	387
04:30 PM	40	144	11	195	7	29	18	54	25	157	17	199	5	18	22	45	493
04:45 PM	20	122	8	150	10	30	18	58	23	138	16	177	4	18	33	55	440
Total	117	509	25	651	49	123	71	243	93	545	62	700	23	74	110	207	1801
05:00 PM	37	169	14	220	9	37	21	67	24	160	14	198	4	37	38	79	564
05:15 PM	26	121	5	152	17	38	25	80	34	167	15	216	4	23	28	55	503
05:30 PM	18	143	13	174	13	25	34	72	25	181	14	220	7	25	30	62	528
05:45 PM	14	125	8	147	16	38	39	93	34	218	11	263	6	15	24	45	548
Total	95	558	40	693	55	138	119	312	117	726	54	897	21	100	120	241	2143
Grand Total	212	1067	65	1344	104	261	190	555	210	1271	116	1597	44	174	230	448	3944
Apprch %	15.8	79.4	4.8		18.7	47	34.2		13.1	79.6	7.3		9.8	38.8	51.3		
Total %	5.4	27.1	1.6	34.1	2.6	6.6	4.8	14.1	5.3	32.2	2.9	40.5	1.1	4.4	5.8	11.4	

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	**37**	**169**	**14**	**220**	9	37	21	67	24	160	14	198	4	**37**	**38**	**79**	**564**
05:15 PM	26	121	5	152	**17**	**38**	25	80	**34**	167	**15**	216	4	23	28	55	503
05:30 PM	18	143	13	174	13	25	34	72	25	181	14	220	**7**	25	30	62	528
05:45 PM	14	125	8	147	16	38	**39**	**93**	34	**218**	11	**263**	6	15	24	45	548
Total Volume	95	558	40	693	55	138	119	312	117	726	54	897	21	100	120	241	2143
% App. Total	13.7	80.5	5.8		17.6	44.2	38.1		13	80.9	6		8.7	41.5	49.8		
PHF	.642	.825	.714	.788	.809	.908	.763	.839	.860	.833	.900	.853	.750	.676	.789	.763	.950

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File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
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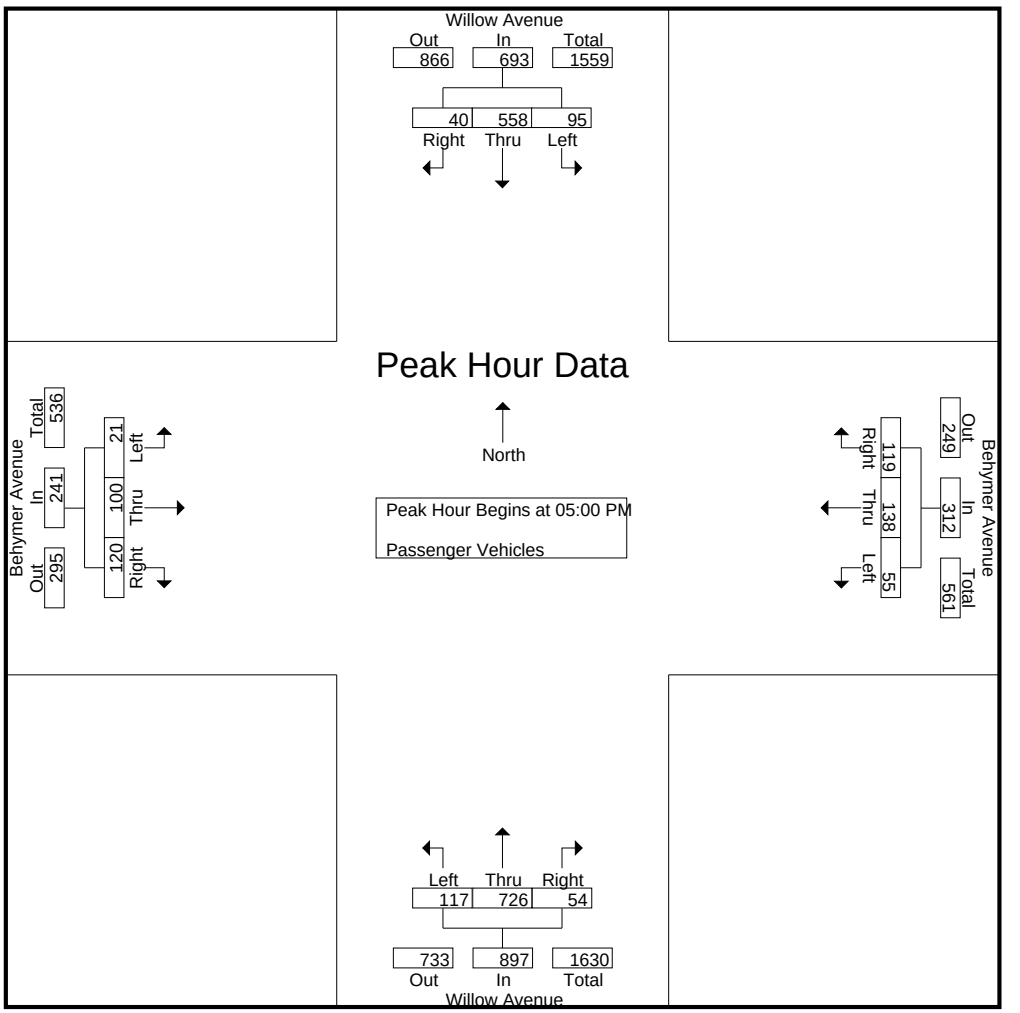

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	**37**	**169**	**14**	**220**	9	37	21	67	24	160	14	198	4	**37**	**38**	**79**
+15 mins.	26	121	5	152	**17**	**38**	25	80	**34**	167	**15**	216	4	23	28	55
+30 mins.	18	143	13	174	13	25	34	72	25	181	14	220	**7**	25	30	62
+45 mins.	14	125	8	147	16	38	**39**	**93**	34	**218**	11	**263**	6	15	24	45
Total Volume	95	558	40	693	55	138	119	312	117	726	54	897	21	100	120	241
% App. Total	13.7	80.5	5.8		17.6	44.2	38.1		13	80.9	6		8.7	41.5	49.8	
PHF	.642	.825	.714	.788	.809	.908	.763	.839	.860	.833	.900	.853	.750	.676	.789	.763

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City of Clovis
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Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
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Groups Printed- Large 2 Axle Vehicles

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	2	0	2	0	0	0	0	0	1	0	1	0	1	0	1	4
04:15 PM	1	0	0	1	0	0	0	0	1	1	0	2	0	1	1	2	5
04:30 PM	0	1	0	1	0	0	0	0	1	0	1	2	0	0	0	0	3
04:45 PM	0	1	0	1	0	0	2	2	0	0	0	0	0	0	0	0	3
Total	1	4	0	5	0	0	2	2	2	2	1	5	0	2	1	3	15
05:00 PM	0	1	0	1	0	0	0	0	0	1	0	1	0	3	1	4	6
05:15 PM	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	2
05:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	2
Total	0	2	0	2	0	0	0	0	2	2	0	4	0	4	1	5	11
Grand Total	1	6	0	7	0	0	2	2	4	4	1	9	0	6	2	8	26
Apprch %	14.3	85.7	0		0	0	100		44.4	44.4	11.1		0	75	25		
Total %	3.8	23.1	0	26.9	0	0	7.7	7.7	15.4	15.4	3.8	34.6	0	23.1	7.7	30.8	

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	**1**	0	**1**	0	0	0	0	0	**1**	0	1	0	**3**	**1**	**4**	**6**
05:15 PM	0	0	0	0	0	0	0	0	**1**	1	0	**2**	0	0	0	0	2
05:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	2
Total Volume	0	2	0	2	0	0	0	0	2	2	0	4	0	4	1	5	11
% App. Total	0	100	0		0	0	0		50	50	0		0	80	20		
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.500	.500	.000	.500	.000	.333	.250	.313	.458

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City of Clovis
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File Name : 13_CVS_Will_Beh PMC
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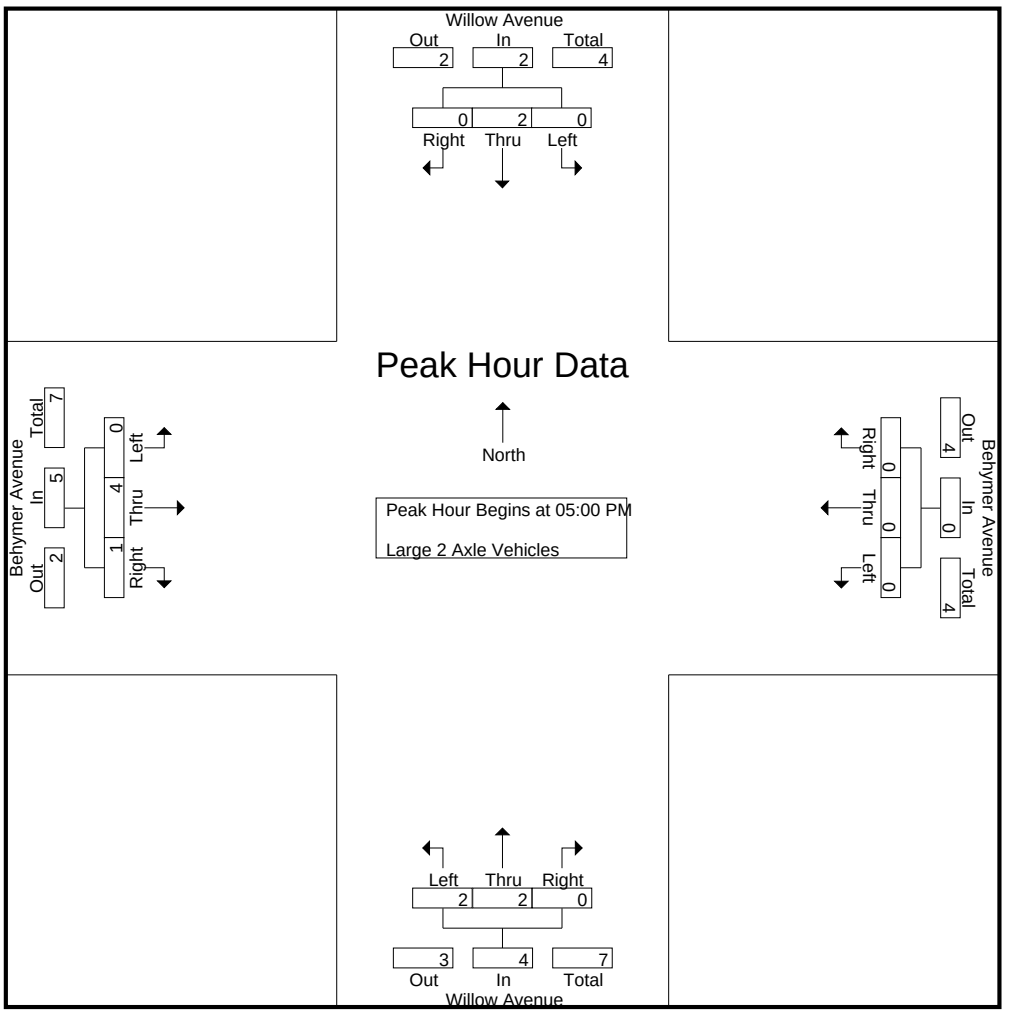

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	**1**	0	**1**	0	0	0	0	0	**1**	0	1	0	**3**	**1**	**4**
+15 mins.	0	0	0	0	0	0	0	0	**1**	1	0	**2**	0	0	0	0
+30 mins.	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1
Total Volume	0	2	0	2	0	0	0	0	2	2	0	4	0	4	1	5
% App. Total	0	100	0		0	0	0		50	50	0		0	80	20	
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.500	.500	.000	.500	.000	.333	.250	.313

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City of Clovis
N/S: Willow Avenue
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Groups Printed- 3 Axle Vehicles

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
Grand Total	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	3
Apprch %	0	0	0		0	0	0		0	100	0		0	0	0		
Total %	0	0	0	0	0	0	0	0	0	100	0	100	0	0	0	0	

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	**1**	0	**1**	0	0	0	0	**1**
05:30 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
% App. Total	0	0	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.500	.000	.500	.000	.000	.000	.000	.500

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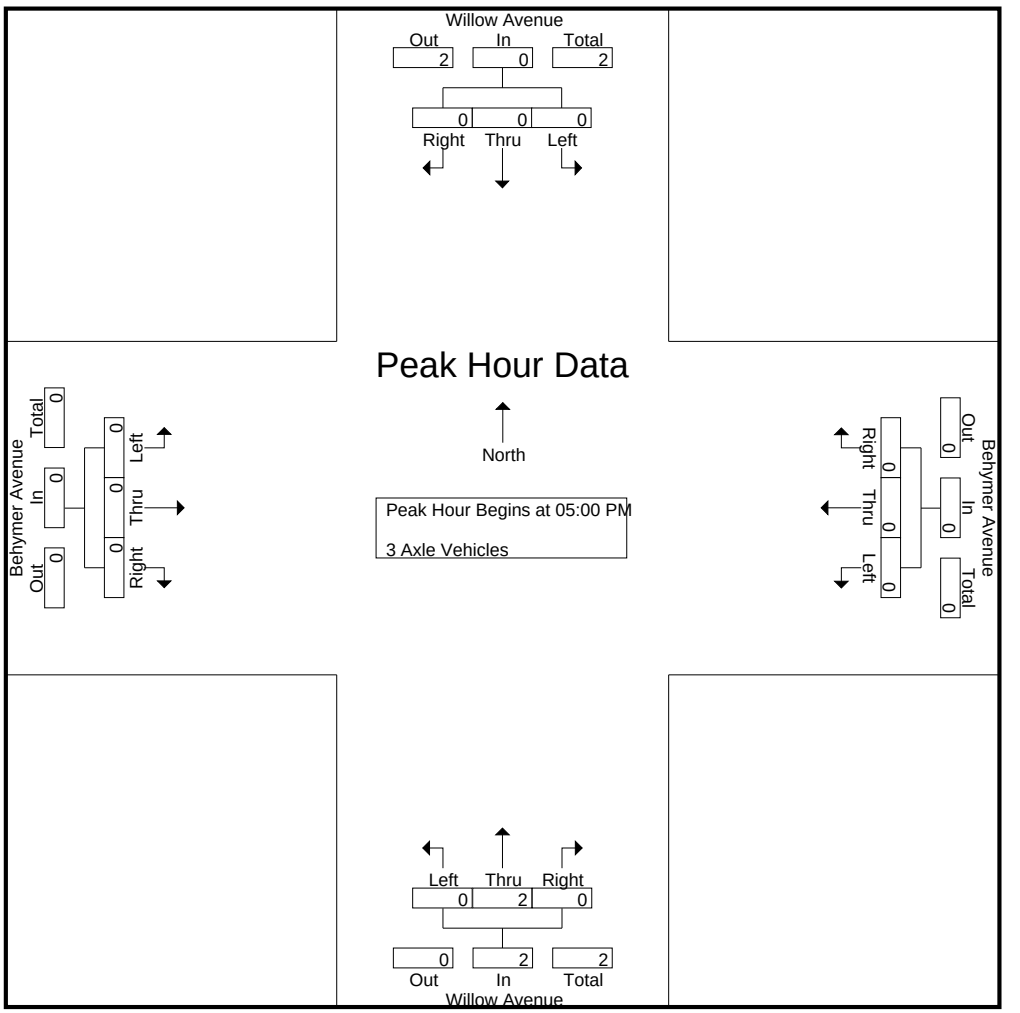

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	**1**	0	**1**	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0
% App. Total	0	0	0		0	0	0		0	100	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.500	.000	.500	.000	.000	.000	.000

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File Name : 13_CVS_Will_Beh PMC
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Groups Printed- 4+ Axle Trucks

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
Grand Total	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
Apprch %	0	100	0		0	0	0		0	100	0		0	0	0		
Total %	0	50	0	50	0	0	0	0	0	50	0	50	0	0	0	0	

	Willow Avenue Southbound				Behymer Avenue Westbound				Willow Avenue Northbound				Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	0	0	0	0	**1**	0	**1**	0	0	0	0	**1**
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
% App. Total	0	0	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.000	.250	.000	.000	.000	.000	.250

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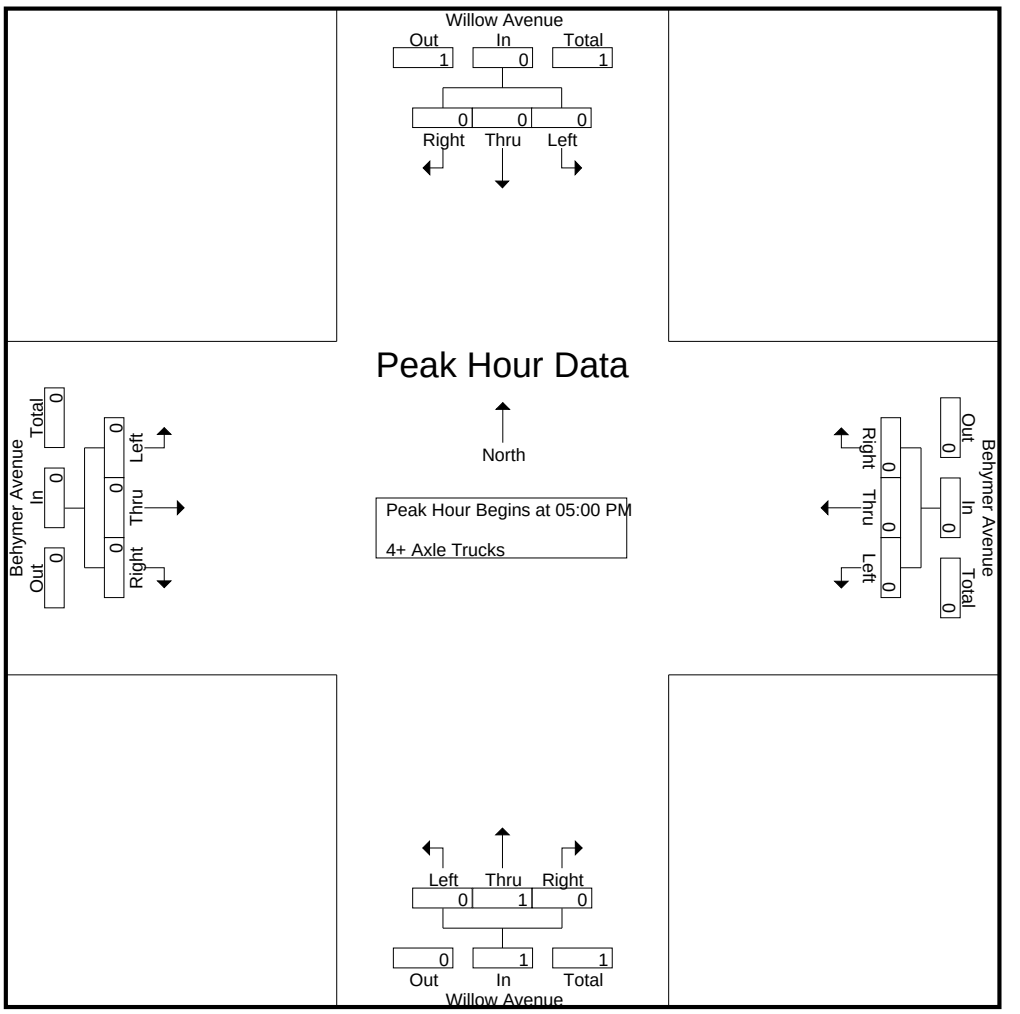
City of Clovis
N/S: Willow Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 13_CVS_Will_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	**1**	0	**1**	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
% App. Total	0	0	0		0	0	0		0	100	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.000	.250	.000	.000	.000	.000

Location: Clovis
N/S: Willow Avenue
E/W: Behymer Avenue

Date: 3/6/2024
Day: Wednesday

PEDESTRIANS

	North Leg Willow Avenue	East Leg Behymer Avenue	South Leg Willow Avenue	West Leg Behymer Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	0	1	1
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	1	1
7:45 AM	0	0	0	1	1
8:00 AM	0	0	0	4	4
8:15 AM	0	0	0	2	2
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	9	9

	North Leg Willow Avenue	East Leg Behymer Avenue	South Leg Willow Avenue	West Leg Behymer Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	1	1
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	1	1
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	2	2

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Location: Clovis
N/S: Willow Avenue
E/W: Behymer Avenue

Date: 3/6/2024
Day: Wednesday

BICYCLES

	Southbound Willow Avenue			Westbound Behymer Avenue			Northbound Willow Avenue			Eastbound Behymer Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	2	0	0	0	1	3
7:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	1
7:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:00 AM	0	0	0	0	0	0	0	3	0	2	0	0	5
8:15 AM	0	0	0	0	0	0	0	3	0	0	0	0	3
8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	1	0	1	0	0	2
TOTAL VOLUMES:	0	0	0	0	0	0	0	11	0	4	0	1	16

	Southbound Willow Avenue			Westbound Behymer Avenue			Northbound Willow Avenue			Eastbound Behymer Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	3	0	0	0	0	0	1	0	0	0	0	4
4:30 PM	0	0	0	0	0	0	0	2	0	0	0	0	2
4:45 PM	0	2	0	0	0	0	0	3	0	0	0	0	5
5:00 PM	0	4	0	0	0	0	0	0	0	0	0	0	4
5:15 PM	0	2	1	0	0	0	0	0	0	0	0	0	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	1
TOTAL VOLUMES:	0	12	1	0	0	0	0	6	0	1	0	0	20

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	73	6	79	24	45	69	13	47	60	208
07:15 AM	124	10	134	22	84	106	10	56	66	306
07:30 AM	177	21	198	46	108	154	29	69	98	450
07:45 AM	181	22	203	24	170	194	29	59	88	485
Total	555	59	614	116	407	523	81	231	312	1449
08:00 AM	171	16	187	29	165	194	56	29	85	466
08:15 AM	181	27	208	16	168	184	51	46	97	489
08:30 AM	225	34	259	19	182	201	29	33	62	522
08:45 AM	159	12	171	29	149	178	25	25	50	399
Total	736	89	825	93	664	757	161	133	294	1876
Grand Total	1291	148	1439	209	1071	1280	242	364	606	3325
Apprch %	89.7	10.3		16.3	83.7		39.9	60.1		
Total %	38.8	4.5	43.3	6.3	32.2	38.5	7.3	10.9	18.2	
Passenger Vehicles	1258	147	1405	208	1046	1254	239	358	597	3256
% Passenger Vehicles	97.4	99.3	97.6	99.5	97.7	98	98.8	98.4	98.5	97.9
Large 2 Axle Vehicles	28	1	29	0	19	19	2	4	6	54
% Large 2 Axle Vehicles	2.2	0.7	2	0	1.8	1.5	0.8	1.1	1	1.6
3 Axle Vehicles	3	0	3	1	5	6	1	1	2	11
% 3 Axle Vehicles	0.2	0	0.2	0.5	0.5	0.5	0.4	0.3	0.3	0.3
4+ Axle Trucks	2	0	2	0	1	1	0	1	1	4
% 4+ Axle Trucks	0.2	0	0.1	0	0.1	0.1	0	0.3	0.2	0.1

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	181	22	203	24	170	194	29	**59**	88	485
08:00 AM	171	16	187	**29**	165	194	**56**	29	85	466
08:15 AM	181	27	208	16	168	184	51	46	**97**	489
08:30 AM	**225**	**34**	**259**	19	**182**	**201**	29	33	62	**522**
Total Volume	758	99	857	88	685	773	165	167	332	1962
% App. Total	88.4	11.6		11.4	88.6		49.7	50.3		
PHF	.842	.728	.827	.759	.941	.961	.737	.708	.856	.940

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
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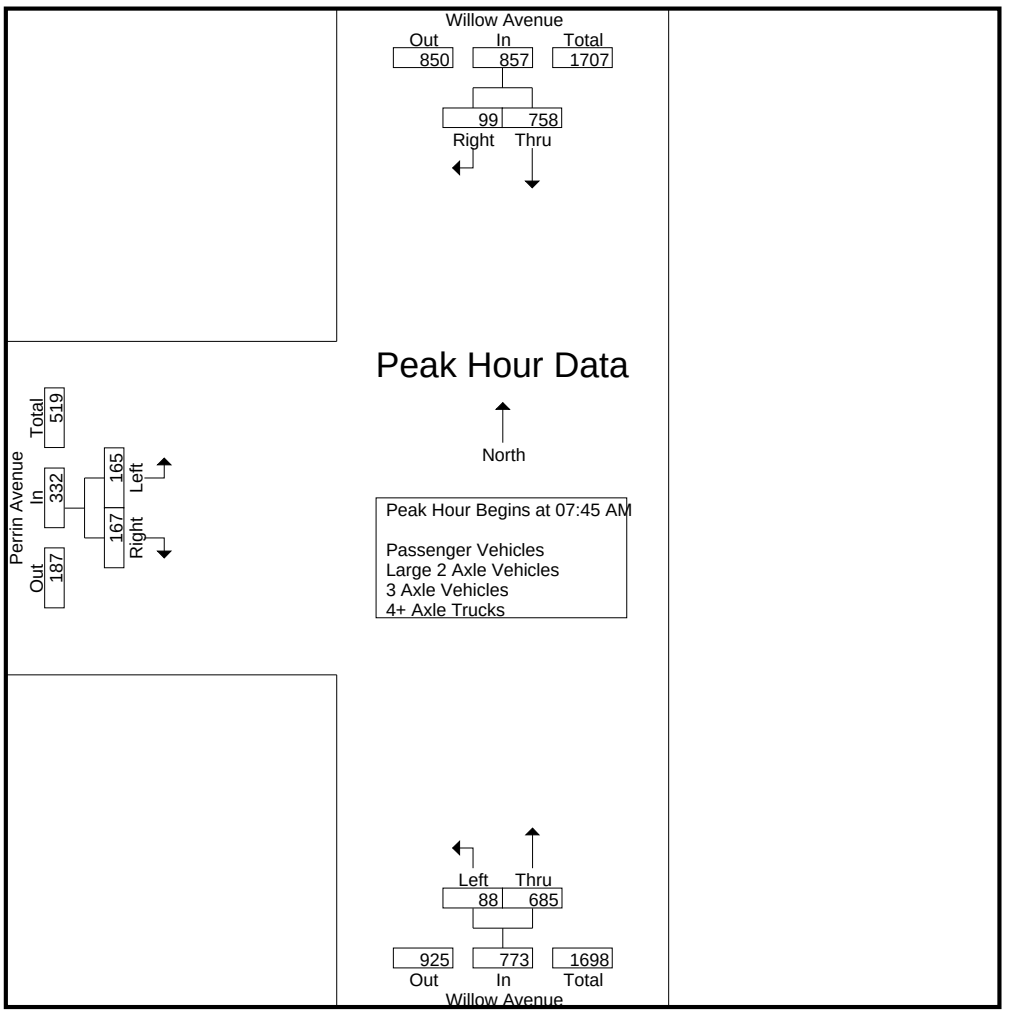

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:45 AM			07:30 AM		
+0 mins.	181	22	203	24	170	194	29	**69**	**98**
+15 mins.	171	16	187	**29**	165	194	29	59	88
+30 mins.	181	27	208	16	168	184	**56**	29	85
+45 mins.	**225**	**34**	**259**	19	**182**	**201**	51	46	97
Total Volume	758	99	857	88	685	773	165	203	368
% App. Total	88.4	11.6		11.4	88.6		44.8	55.2	
PHF	.842	.728	.827	.759	.941	.961	.737	.736	.939

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	71	6	77	24	42	66	13	47	60	203
07:15 AM	120	10	130	22	80	102	10	55	65	297
07:30 AM	175	21	196	46	106	152	29	67	96	444
07:45 AM	178	22	200	23	165	188	28	57	85	473
Total	544	59	603	115	393	508	80	226	306	1417
08:00 AM	163	16	179	29	161	190	54	28	82	451
08:15 AM	173	26	199	16	165	181	51	46	97	477
08:30 AM	220	34	254	19	179	198	29	33	62	514
08:45 AM	158	12	170	29	148	177	25	25	50	397
Total	714	88	802	93	653	746	159	132	291	1839
Grand Total	1258	147	1405	208	1046	1254	239	358	597	3256
Apprch %	89.5	10.5		16.6	83.4		40	60		
Total %	38.6	4.5	43.2	6.4	32.1	38.5	7.3	11	18.3	

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	178	22	200	23	165	188	28	**57**	85	473
08:00 AM	163	16	179	**29**	161	190	**54**	28	82	451
08:15 AM	173	26	199	16	165	181	51	46	**97**	477
08:30 AM	**220**	**34**	**254**	19	**179**	**198**	29	33	62	**514**
Total Volume	734	98	832	87	670	757	162	164	326	1915
% App. Total	88.2	11.8		11.5	88.5		49.7	50.3		
PHF	.834	.721	.819	.750	.936	.956	.750	.719	.840	.931

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
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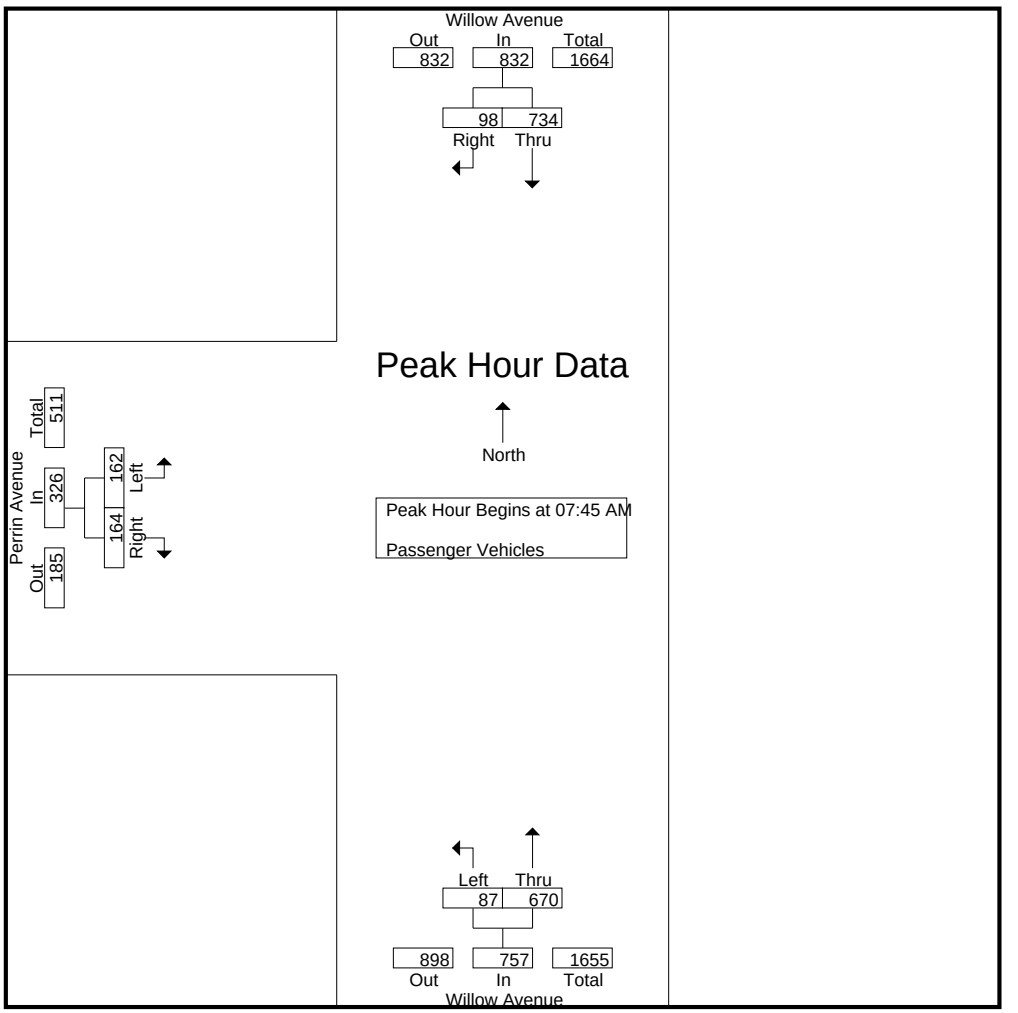

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:45 AM			07:45 AM		
+0 mins.	178	22	200	23	165	188	28	**57**	85
+15 mins.	163	16	179	**29**	161	190	**54**	28	82
+30 mins.	173	26	199	16	165	181	51	46	**97**
+45 mins.	**220**	**34**	**254**	19	**179**	**198**	29	33	62
Total Volume	734	98	832	87	670	757	162	164	326
% App. Total	88.2	11.8		11.5	88.5		49.7	50.3	
PHF	.834	.721	.819	.750	.936	.956	.750	.719	.840

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
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Groups Printed- Large 2 Axle Vehicles

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	2	0	2	0	2	2	0	0	0	4
07:15 AM	4	0	4	0	4	4	0	0	0	8
07:30 AM	2	0	2	0	1	1	0	1	1	4
07:45 AM	3	0	3	0	2	2	1	2	3	8
Total	11	0	11	0	9	9	1	3	4	24
08:00 AM	5	0	5	0	4	4	1	1	2	11
08:15 AM	6	1	7	0	3	3	0	0	0	10
08:30 AM	5	0	5	0	3	3	0	0	0	8
08:45 AM	1	0	1	0	0	0	0	0	0	1
Total	17	1	18	0	10	10	1	1	2	30
Grand Total	28	1	29	0	19	19	2	4	6	54
Apprch %	96.6	3.4		0	100		33.3	66.7		
Total %	51.9	1.9	53.7	0	35.2	35.2	3.7	7.4	11.1	

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	3	0	3	0	2	2	**1**	**2**	**3**	8
08:00 AM	5	0	5	0	**4**	**4**	1	1	2	**11**
08:15 AM	**6**	**1**	**7**	0	3	3	0	0	0	10
08:30 AM	5	0	5	0	3	3	0	0	0	8
Total Volume	19	1	20	0	12	12	2	3	5	37
% App. Total	95	5		0	100		40	60		
PHF	.792	.250	.714	.000	.750	.750	.500	.375	.417	.841

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
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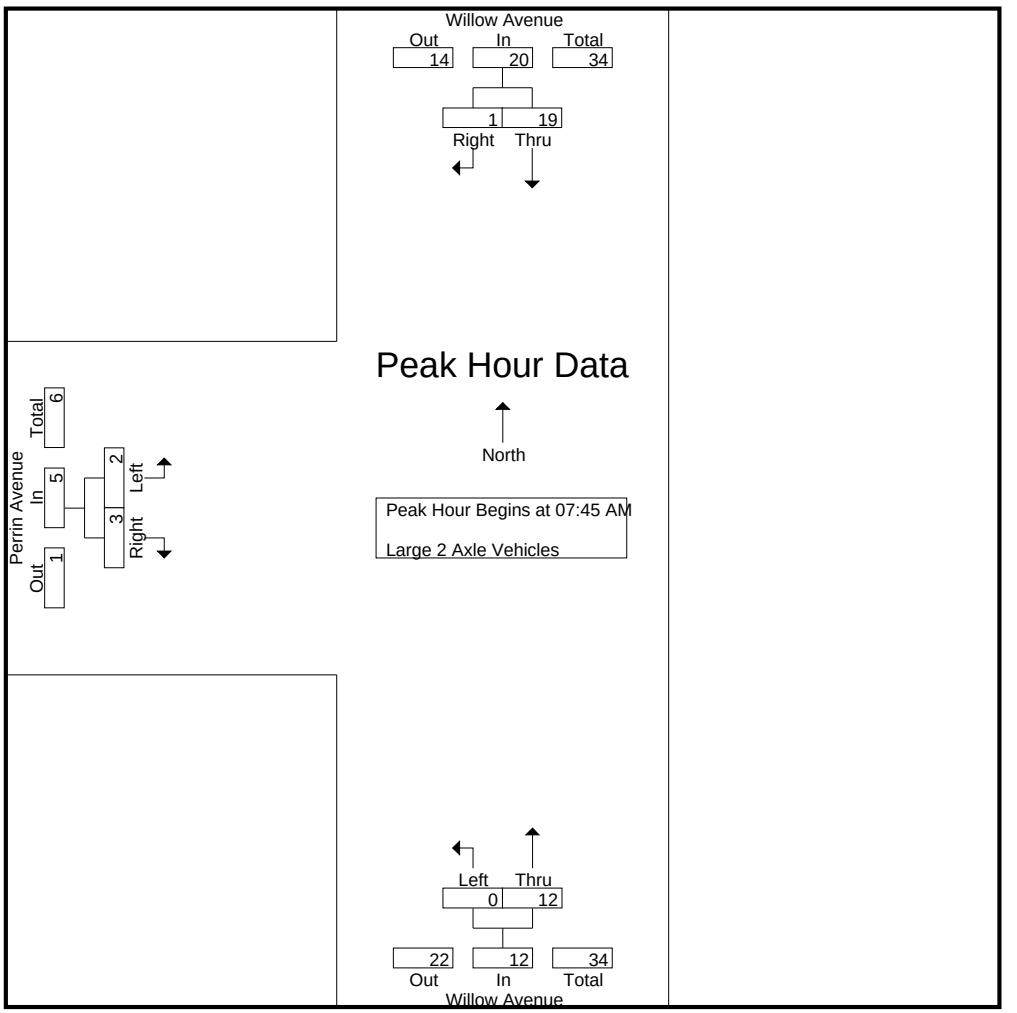

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:45 AM			07:45 AM		
+0 mins.	3	0	3	0	2	2	**1**	**2**	**3**
+15 mins.	5	0	5	0	**4**	**4**	1	1	2
+30 mins.	**6**	**1**	**7**	0	3	3	0	0	0
+45 mins.	5	0	5	0	3	3	0	0	0
Total Volume	19	1	20	0	12	12	2	3	5
% App. Total	95	5		0	100		40	60	
PHF	.792	.250	.714	.000	.750	.750	.500	.375	.417

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	1	1	0	1	1	2
07:45 AM	0	0	0	1	3	4	0	0	0	4
Total	0	0	0	1	4	5	0	1	1	6
08:00 AM	2	0	2	0	0	0	1	0	1	3
08:15 AM	1	0	1	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	1	1	0	0	0	1
Total	3	0	3	0	1	1	1	0	1	5
Grand Total	3	0	3	1	5	6	1	1	2	11
Apprch %	100	0		16.7	83.3		50	50		
Total %	27.3	0	27.3	9.1	45.5	54.5	9.1	9.1	18.2	

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	0	0	0	**1**	**3**	**4**	0	0	0	**4**
08:00 AM	**2**	0	**2**	0	0	0	**1**	0	**1**	3
08:15 AM	1	0	1	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	3	0	3	1	3	4	1	0	1	8
% App. Total	100	0		25	75		100	0		
PHF	.375	.000	.375	.250	.250	.250	.250	.000	.250	.500

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
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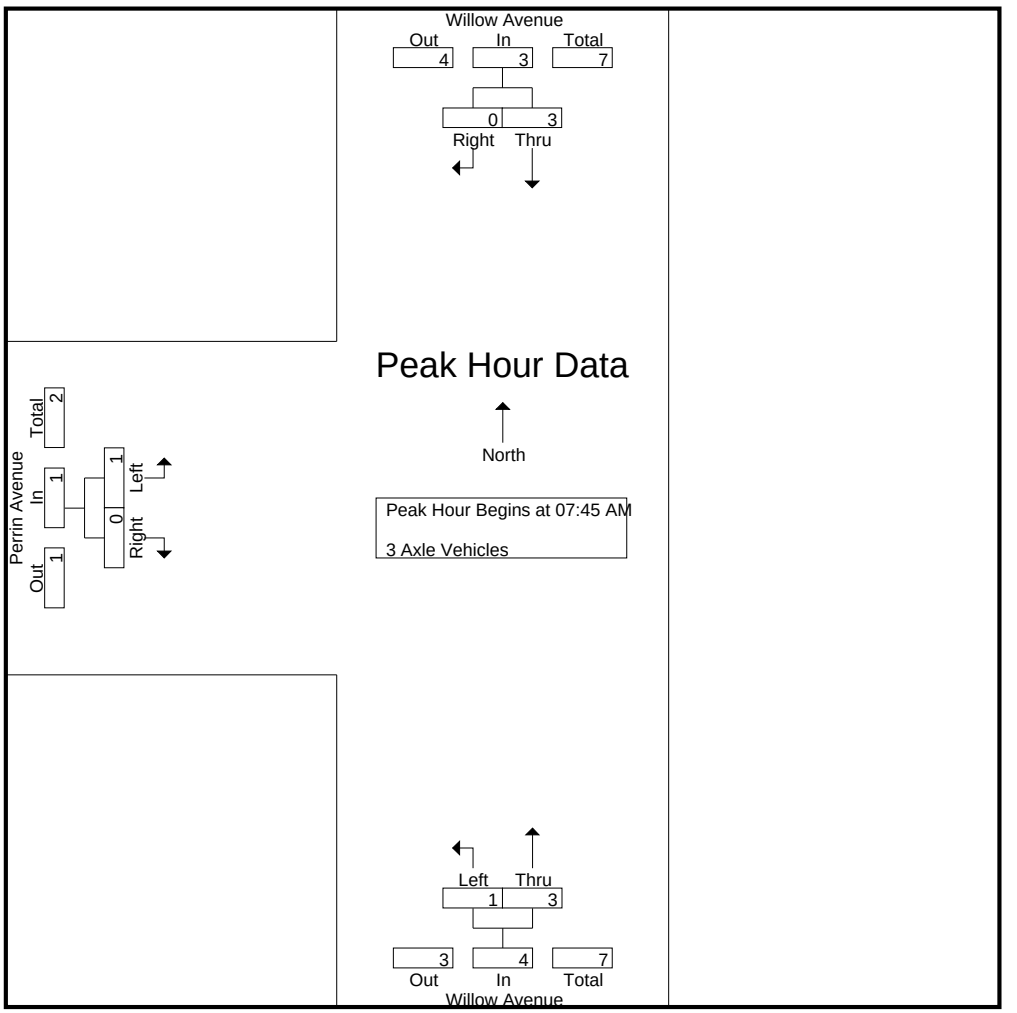

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:45 AM			07:45 AM		
+0 mins.	0	0	0	**1**	**3**	**4**	0	0	0
+15 mins.	**2**	0	**2**	0	0	0	**1**	0	**1**
+30 mins.	1	0	1	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	3	0	3	1	3	4	1	0	1
% App. Total	100	0		25	75		100	0	
PHF	.375	.000	.375	.250	.250	.250	.250	.000	.250

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per AMC
Site Code : 00324176
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Groups Printed- 4+ Axle Trucks

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	1	1	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	1	1	1
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	1	0	1	1	2
08:00 AM	1	0	1	0	0	0	0	0	0	1
08:15 AM	1	0	1	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	2	0	2	0	0	0	0	0	0	2
Grand Total	2	0	2	0	1	1	0	1	1	4
Apprch %	100	0		0	100		0	100		
Total %	50	0	50	0	25	25	0	25	25	

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	0	0	0	0	0	0	0	0	0	0
08:00 AM	**1**	0	**1**	0	0	0	0	0	0	**1**
08:15 AM	1	0	1	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	2	0	2	0	0	0	0	0	0	2
% App. Total	100	0		0	0		0	0		
PHF	.500	.000	.500	.000	.000	.000	.000	.000	.000	.500

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City of Clovis
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E/W: Perrin Avenue
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File Name : 14_CVS_Will_Per AMC
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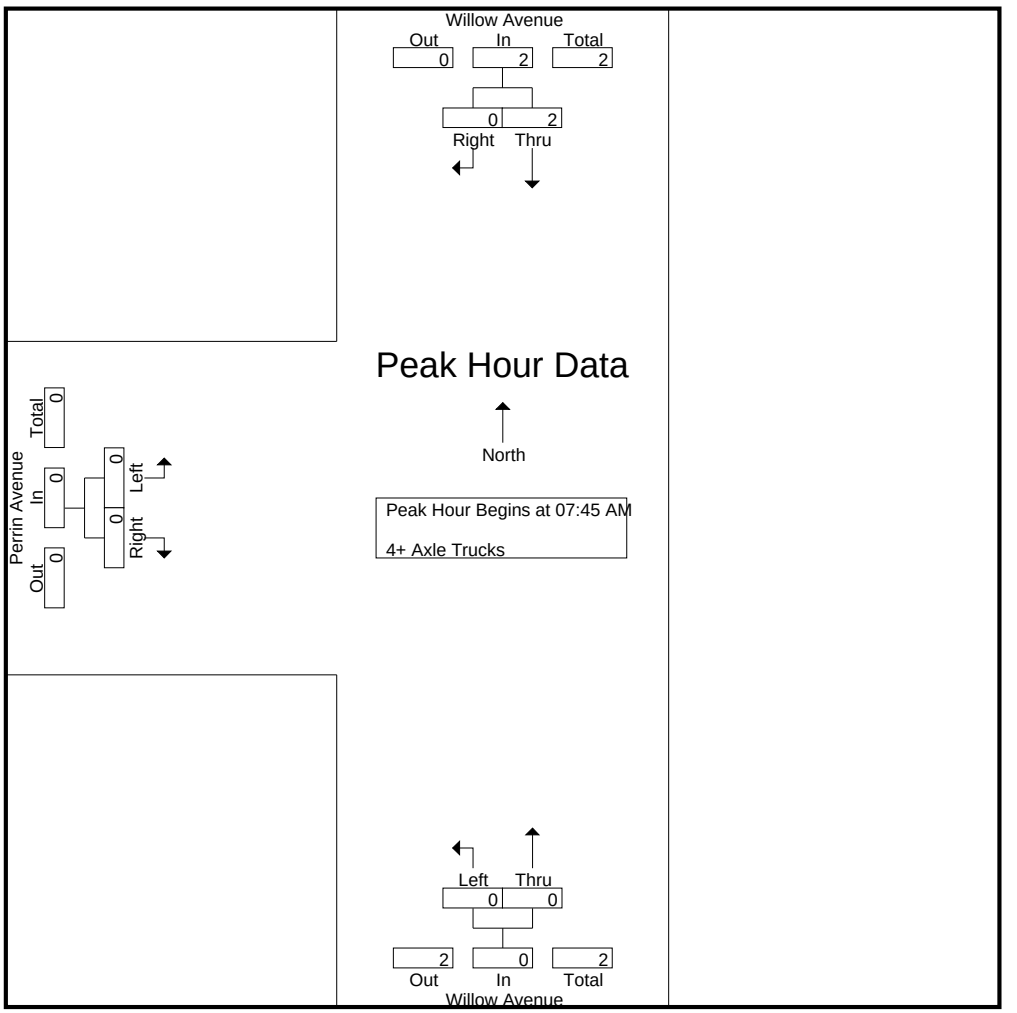

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:45 AM			07:45 AM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	**1**	0	**1**	0	0	0	0	0	0
+30 mins.	1	0	1	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	2	0	2	0	0	0	0	0	0
% App. Total	100	0		0	0		0	0	
PHF	.500	.000	.500	.000	.000	.000	.000	.000	.000

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	170	19	189	42	171	213	27	36	63	465
04:15 PM	135	20	155	47	144	191	21	40	61	407
04:30 PM	164	13	177	47	168	215	17	44	61	453
04:45 PM	149	17	166	63	178	241	21	39	60	467
Total	618	69	687	199	661	860	86	159	245	1792
05:00 PM	213	20	233	39	194	233	26	47	73	539
05:15 PM	148	22	170	60	203	263	26	48	74	507
05:30 PM	166	26	192	45	210	255	29	54	83	530
05:45 PM	144	21	165	55	248	303	33	44	77	545
Total	671	89	760	199	855	1054	114	193	307	2121
Grand Total	1289	158	1447	398	1516	1914	200	352	552	3913
Apprch %	89.1	10.9		20.8	79.2		36.2	63.8		
Total %	32.9	4	37	10.2	38.7	48.9	5.1	9	14.1	
Passenger Vehicles	1280	158	1438	396	1502	1898	200	351	551	3887
% Passenger Vehicles	99.3	100	99.4	99.5	99.1	99.2	100	99.7	99.8	99.3
Large 2 Axle Vehicles	8	0	8	1	9	10	0	1	1	19
% Large 2 Axle Vehicles	0.6	0	0.6	0.3	0.6	0.5	0	0.3	0.2	0.5
3 Axle Vehicles	0	0	0	1	0	1	0	0	0	1
% 3 Axle Vehicles	0	0	0	0.3	0	0.1	0	0	0	0
4+ Axle Trucks	1	0	1	0	5	5	0	0	0	6
% 4+ Axle Trucks	0.1	0	0.1	0	0.3	0.3	0	0	0	0.2

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	**213**	20	**233**	39	194	233	26	47	73	539
05:15 PM	148	22	170	**60**	203	263	26	48	74	507
05:30 PM	166	**26**	192	45	210	255	29	**54**	**83**	530
05:45 PM	144	21	165	55	**248**	**303**	**33**	44	77	**545**
Total Volume	671	89	760	199	855	1054	114	193	307	2121
% App. Total	88.3	11.7		18.9	81.1		37.1	62.9		
PHF	.788	.856	.815	.829	.862	.870	.864	.894	.925	.973

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File Name : 14_CVS_Will_Per PMC
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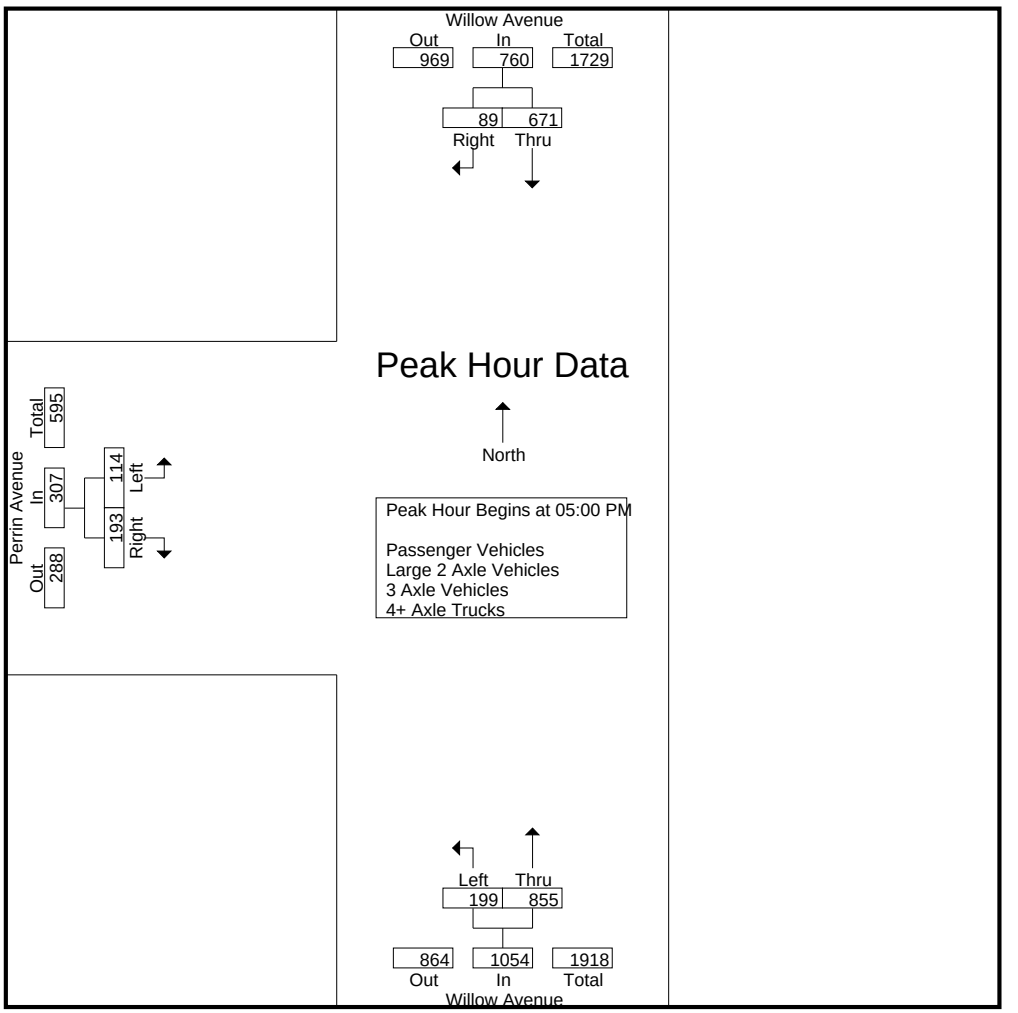

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			05:00 PM			05:00 PM		
+0 mins.	149	17	166	39	194	233	26	47	73
+15 mins.	**213**	20	**233**	**60**	203	263	26	48	74
+30 mins.	148	22	170	45	210	255	29	**54**	**83**
+45 mins.	166	**26**	192	55	**248**	**303**	**33**	44	77
Total Volume	676	85	761	199	855	1054	114	193	307
% App. Total	88.8	11.2		18.9	81.1		37.1	62.9	
PHF	.793	.817	.817	.829	.862	.870	.864	.894	.925

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E/W: Perrin Avenue
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File Name : 14_CVS_Will_Per PMC
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Start Date : 3/6/2024
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Groups Printed- Passenger Vehicles

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	168	19	187	42	170	212	27	36	63	462
04:15 PM	133	20	153	47	142	189	21	40	61	403
04:30 PM	163	13	176	47	166	213	17	44	61	450
04:45 PM	148	17	165	63	177	240	21	39	60	465
Total	612	69	681	199	655	854	86	159	245	1780
05:00 PM	211	20	231	39	191	230	26	47	73	534
05:15 PM	148	22	170	59	201	260	26	48	74	504
05:30 PM	165	26	191	44	208	252	29	53	82	525
05:45 PM	144	21	165	55	247	302	33	44	77	544
Total	668	89	757	197	847	1044	114	192	306	2107
Grand Total	1280	158	1438	396	1502	1898	200	351	551	3887
Apprch %	89	11		20.9	79.1		36.3	63.7		
Total %	32.9	4.1	37	10.2	38.6	48.8	5.1	9	14.2	

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	**211**	20	**231**	39	191	230	26	47	73	534
05:15 PM	148	22	170	**59**	201	260	26	48	74	504
05:30 PM	165	**26**	191	44	208	252	29	**53**	**82**	525
05:45 PM	144	21	165	55	**247**	**302**	**33**	44	77	**544**
Total Volume	668	89	757	197	847	1044	114	192	306	2107
% App. Total	88.2	11.8		18.9	81.1		37.3	62.7		
PHF	.791	.856	.819	.835	.857	.864	.864	.906	.933	.968

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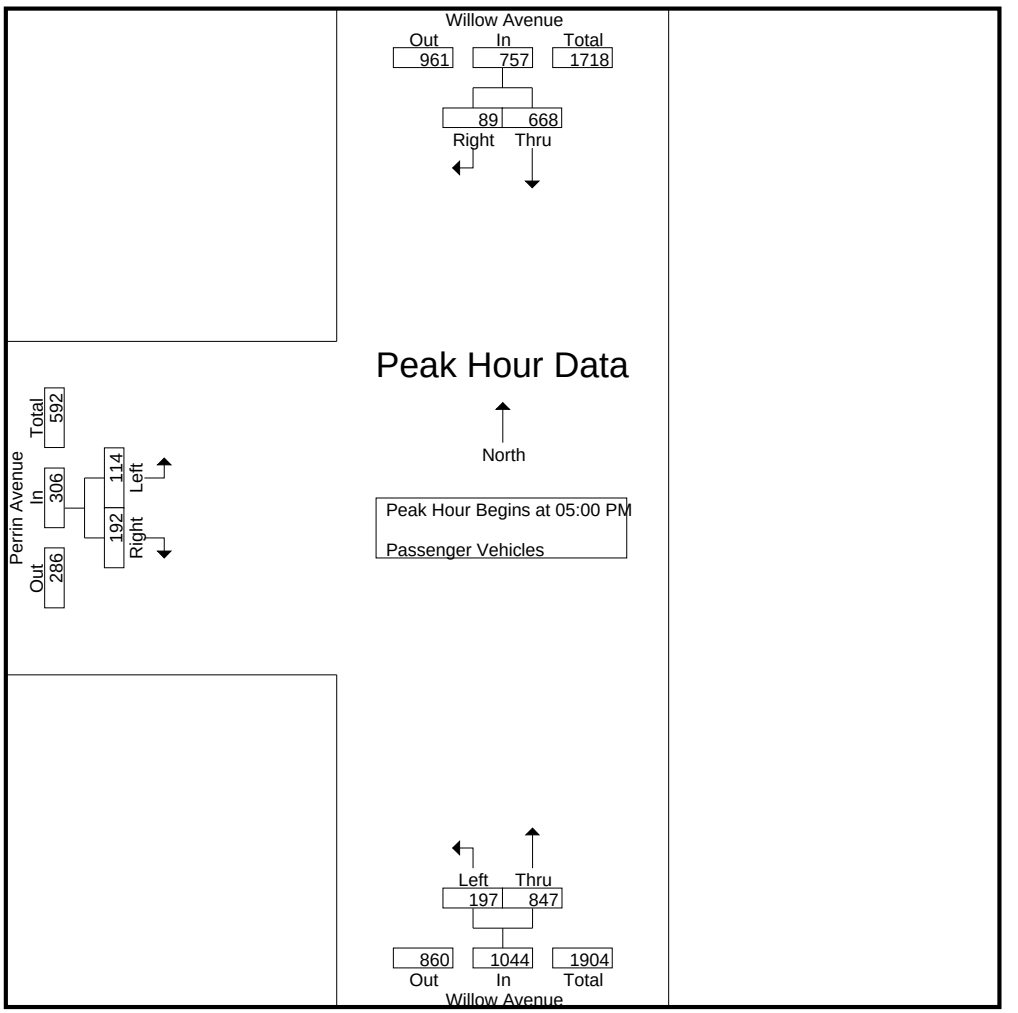

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	**211**	20	**231**	39	191	230	26	47	73
+15 mins.	148	22	170	**59**	201	260	26	48	74
+30 mins.	165	**26**	191	44	208	252	29	**53**	**82**
+45 mins.	144	21	165	55	**247**	**302**	**33**	44	77
Total Volume	668	89	757	197	847	1044	114	192	306
% App. Total	88.2	11.8		18.9	81.1		37.3	62.7	
PHF	.791	.856	.819	.835	.857	.864	.864	.906	.933

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N/S: Willow Avenue
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Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024
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Groups Printed- Large 2 Axle Vehicles

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	2	0	2	0	1	1	0	0	0	3
04:15 PM	1	0	1	0	2	2	0	0	0	3
04:30 PM	1	0	1	0	2	2	0	0	0	3
04:45 PM	1	0	1	0	0	0	0	0	0	1
Total	5	0	5	0	5	5	0	0	0	10
05:00 PM	2	0	2	0	2	2	0	0	0	4
05:15 PM	0	0	0	1	1	2	0	0	0	2
05:30 PM	1	0	1	0	0	0	0	1	1	2
05:45 PM	0	0	0	0	1	1	0	0	0	1
Total	3	0	3	1	4	5	0	1	1	9
Grand Total	8	0	8	1	9	10	0	1	1	19
Apprch %	100	0		10	90		0	100		
Total %	42.1	0	42.1	5.3	47.4	52.6	0	5.3	5.3	

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	**2**	0	**2**	0	**2**	**2**	0	0	0	**4**
05:15 PM	0	0	0	**1**	1	2	0	0	0	2
05:30 PM	1	0	1	0	0	0	0	**1**	**1**	2
05:45 PM	0	0	0	0	1	1	0	0	0	1
Total Volume	3	0	3	1	4	5	0	1	1	9
% App. Total	100	0		20	80		0	100		
PHF	.375	.000	.375	.250	.500	.625	.000	.250	.250	.563

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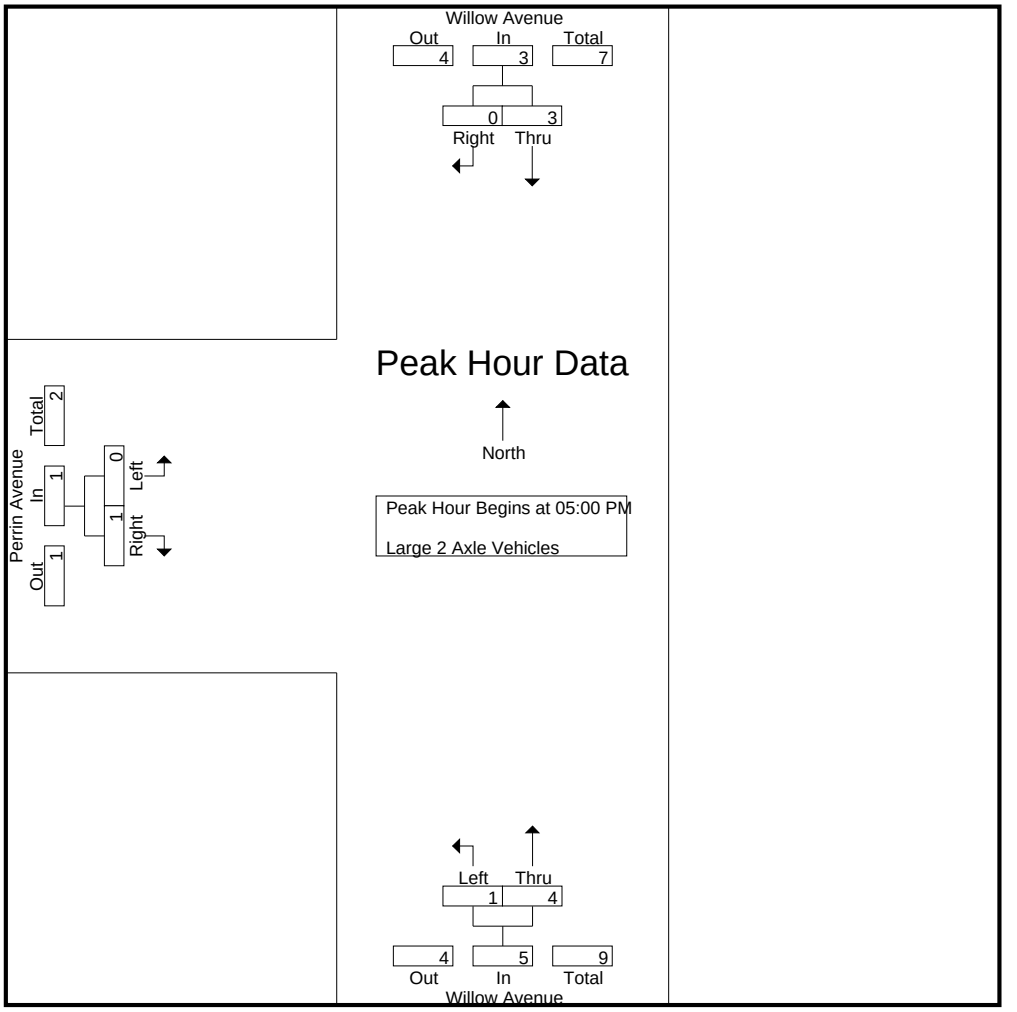

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	**2**	0	**2**	0	**2**	**2**	0	0	0
+15 mins.	0	0	0	**1**	1	2	0	0	0
+30 mins.	1	0	1	0	0	0	0	**1**	**1**
+45 mins.	0	0	0	0	1	1	0	0	0
Total Volume	3	0	3	1	4	5	0	1	1
% App. Total	100	0		20	80		0	100	
PHF	.375	.000	.375	.250	.500	.625	.000	.250	.250

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City of Clovis
N/S: Willow Avenue
E/W: Perrin Avenue
Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
Start Date : 3/6/2024

Groups Printed- 3 Axle Vehicles

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	1	0	1	0	0	0	1
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	1	0	0	0	1
Grand Total	0	0	0	1	0	1	0	0	0	1
Apprch %	0	0		100	0		0	0		
Total %	0	0	0	100	0	100	0	0	0	

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	**1**	0	**1**	0	0	0	**1**
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	1	0	1	0	0	0	1
% App. Total	0	0		100	0		0	0		
PHF	.000	.000	.000	.250	.000	.250	.000	.000	.000	.250

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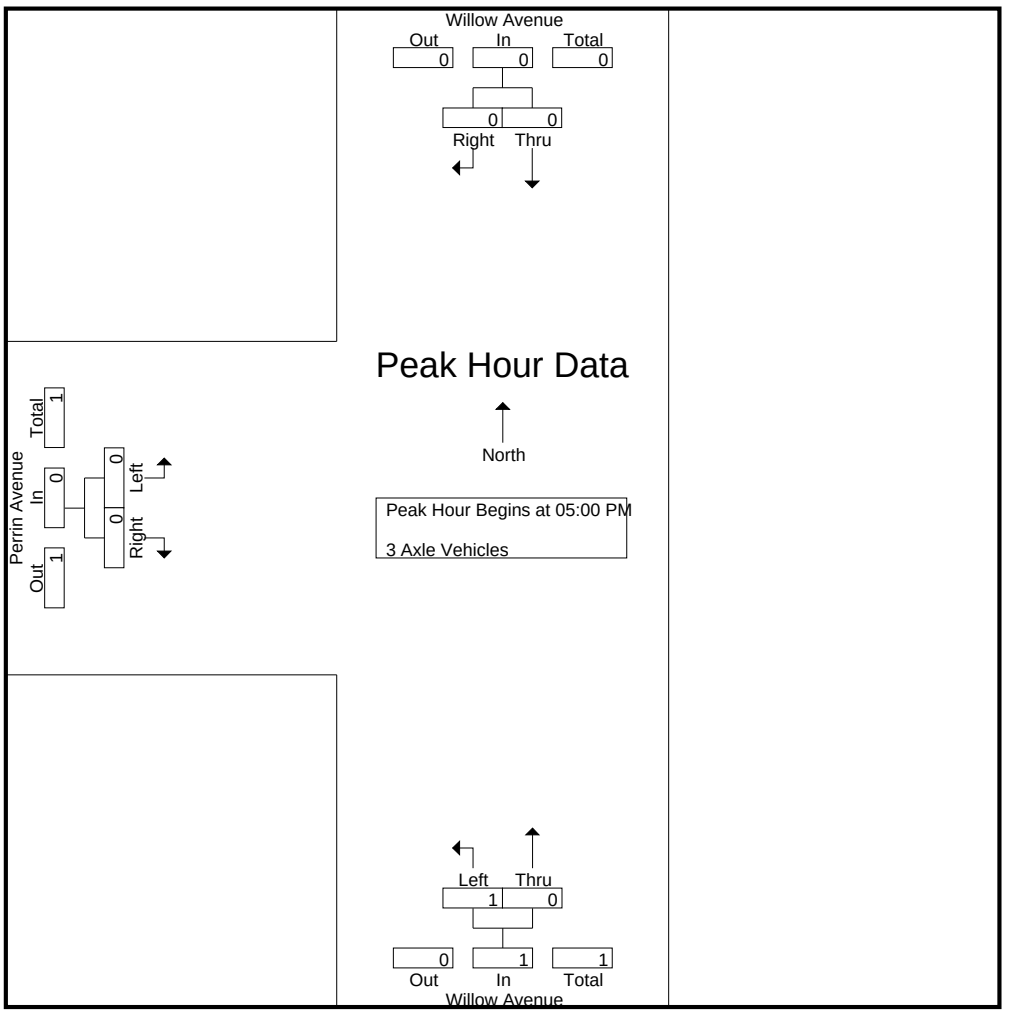

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	**1**	0	**1**	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	1	0	1	0	0	0
% App. Total	0	0		100	0		0	0	
PHF	.000	.000	.000	.250	.000	.250	.000	.000	.000

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Weather: Clear

File Name : 14_CVS_Will_Per PMC
Site Code : 00324176
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Groups Printed- 4+ Axle Trucks

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	1	0	1	0	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	1	1	0	0	0	1
Total	1	0	1	0	1	1	0	0	0	2
05:00 PM	0	0	0	0	1	1	0	0	0	1
05:15 PM	0	0	0	0	1	1	0	0	0	1
05:30 PM	0	0	0	0	2	2	0	0	0	2
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	4	4	0	0	0	4
Grand Total	1	0	1	0	5	5	0	0	0	6
Apprch %	100	0		0	100		0	0		
Total %	16.7	0	16.7	0	83.3	83.3	0	0	0	

	Willow Avenue Southbound			Willow Avenue Northbound			Perrin Avenue Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	0	0	0	1	1	0	0	0	1
05:15 PM	0	0	0	0	1	1	0	0	0	1
05:30 PM	0	0	0	0	**2**	**2**	0	0	0	**2**
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	4	4	0	0	0	4
% App. Total	0	0		0	100		0	0		
PHF	.000	.000	.000	.000	.500	.500	.000	.000	.000	.500

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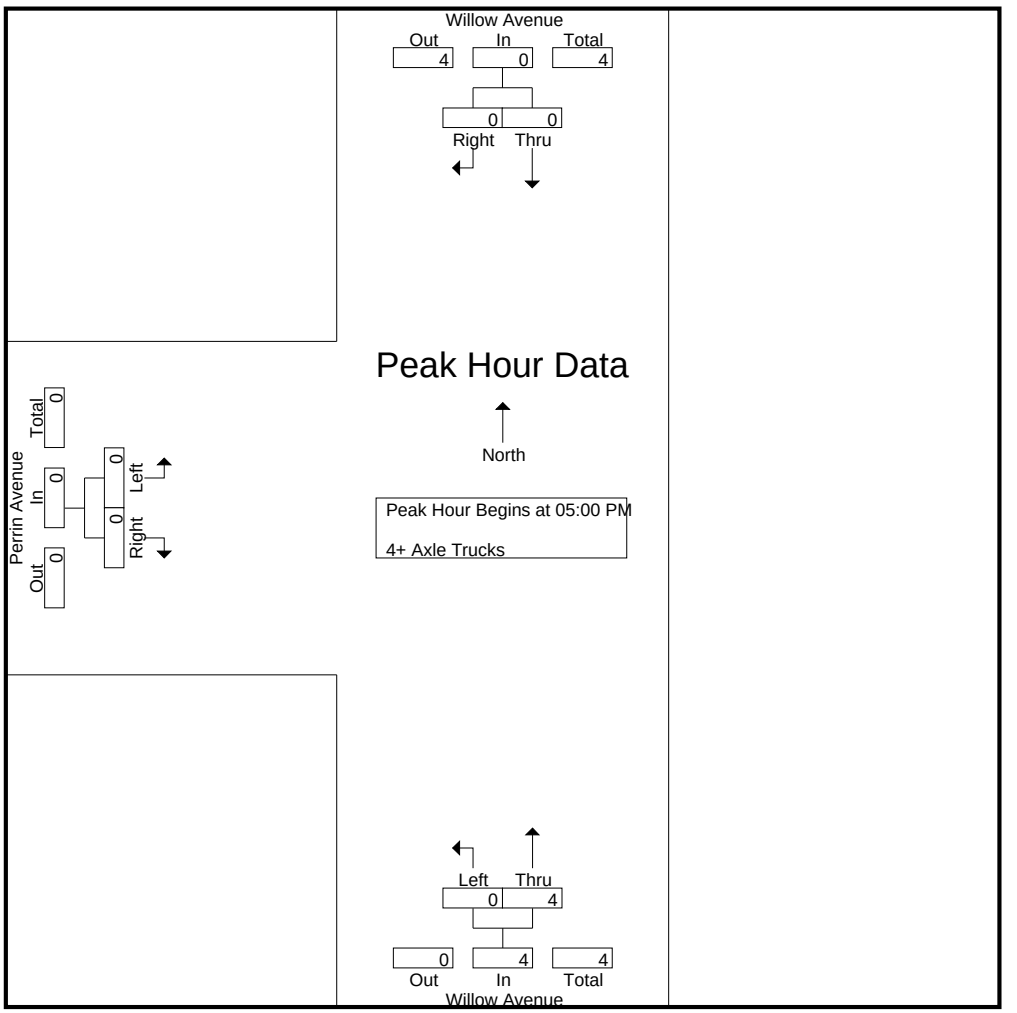

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	0	0	0	0	1	1	0	0	0
+15 mins.	0	0	0	0	1	1	0	0	0
+30 mins.	0	0	0	0	**2**	**2**	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	4	4	0	0	0
% App. Total	0	0		0	100		0	0	
PHF	.000	.000	.000	.000	.500	.500	.000	.000	.000

Location: Clovis
N/S: Willow Avenue
E/W: Perrin Avenue

Date: 3/6/2024
Day: Wednesday

PEDESTRIANS

	North Leg Willow Avenue	East Leg Dead End	South Leg Willow Avenue	West Leg Perrin Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	2	2
8:00 AM	0	0	0	1	1
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	1	1
TOTAL VOLUMES:	0	0	0	4	4

	North Leg Willow Avenue	East Leg Dead End	South Leg Willow Avenue	West Leg Perrin Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	2	2
5:15 PM	0	0	0	2	2
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	4	4

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Location: Clovis
N/S: Willow Avenue
E/W: Perrin Avenue

Date: 3/6/2024
Day: Wednesday

BICYCLES

	Southbound Willow Avenue			Westbound Dead End			Northbound Willow Avenue			Eastbound Perrin Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	2	0	0	0	0	2
7:30 AM	0	1	0	0	0	0	0	1	0	0	0	0	2
7:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:00 AM	0	0	0	0	0	0	0	3	0	0	0	0	3
8:15 AM	0	0	0	0	0	0	0	2	0	0	0	0	2
8:30 AM	0	0	0	0	0	0	0	2	0	0	0	0	2
8:45 AM	0	0	0	0	0	0	0	3	0	1	0	0	4
TOTAL VOLUMES:	0	1	0	0	0	0	0	14	0	1	0	0	16

	Southbound Willow Avenue			Westbound Dead End			Northbound Willow Avenue			Eastbound Perrin Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	3	0	0	0	0	0	2	0	0	0	0	5
4:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
4:45 PM	0	2	0	0	0	0	1	3	0	0	0	0	6
5:00 PM	0	4	0	0	0	0	2	0	0	0	0	2	8
5:15 PM	0	2	0	0	0	0	0	0	0	0	0	0	2
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	2	0	0	0	0	2
TOTAL VOLUMES:	0	12	0	0	0	0	3	8	0	0	0	2	25

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	1	0	1	34	0	34	0	39	39	74
07:15 AM	0	0	0	58	0	58	0	32	32	90
07:30 AM	0	0	0	118	1	119	0	42	42	161
07:45 AM	0	0	0	104	0	104	0	69	69	173
Total	1	0	1	314	1	315	0	182	182	498
08:00 AM	0	0	0	72	0	72	0	65	65	137
08:15 AM	1	0	1	50	0	50	0	48	48	99
08:30 AM	0	0	0	69	0	69	1	42	43	112
08:45 AM	0	0	0	70	0	70	0	43	43	113
Total	1	0	1	261	0	261	1	198	199	461
Grand Total	2	0	2	575	1	576	1	380	381	959
Apprch %	100	0		99.8	0.2		0.3	99.7		
Total %	0.2	0	0.2	60	0.1	60.1	0.1	39.6	39.7	
Passenger Vehicles	2	0	2	566	1	567	1	368	369	938
% Passenger Vehicles	100	0	100	98.4	100	98.4	100	96.8	96.9	97.8
Large 2 Axle Vehicles	0	0	0	6	0	6	0	8	8	14
% Large 2 Axle Vehicles	0	0	0	1	0	1	0	2.1	2.1	1.5
3 Axle Vehicles	0	0	0	1	0	1	0	1	1	2
% 3 Axle Vehicles	0	0	0	0.2	0	0.2	0	0.3	0.3	0.2
4+ Axle Trucks	0	0	0	2	0	2	0	3	3	5
% 4+ Axle Trucks	0	0	0	0.3	0	0.3	0	0.8	0.8	0.5

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	**118**	**1**	**119**	0	42	42	161
07:45 AM	0	0	0	104	0	104	0	**69**	**69**	**173**
08:00 AM	0	0	0	72	0	72	0	65	65	137
08:15 AM	**1**	0	**1**	50	0	50	0	48	48	99
Total Volume	1	0	1	344	1	345	0	224	224	570
% App. Total	100	0		99.7	0.3		0	100		
PHF	.250	.000	.250	.729	.250	.725	.000	.812	.812	.824

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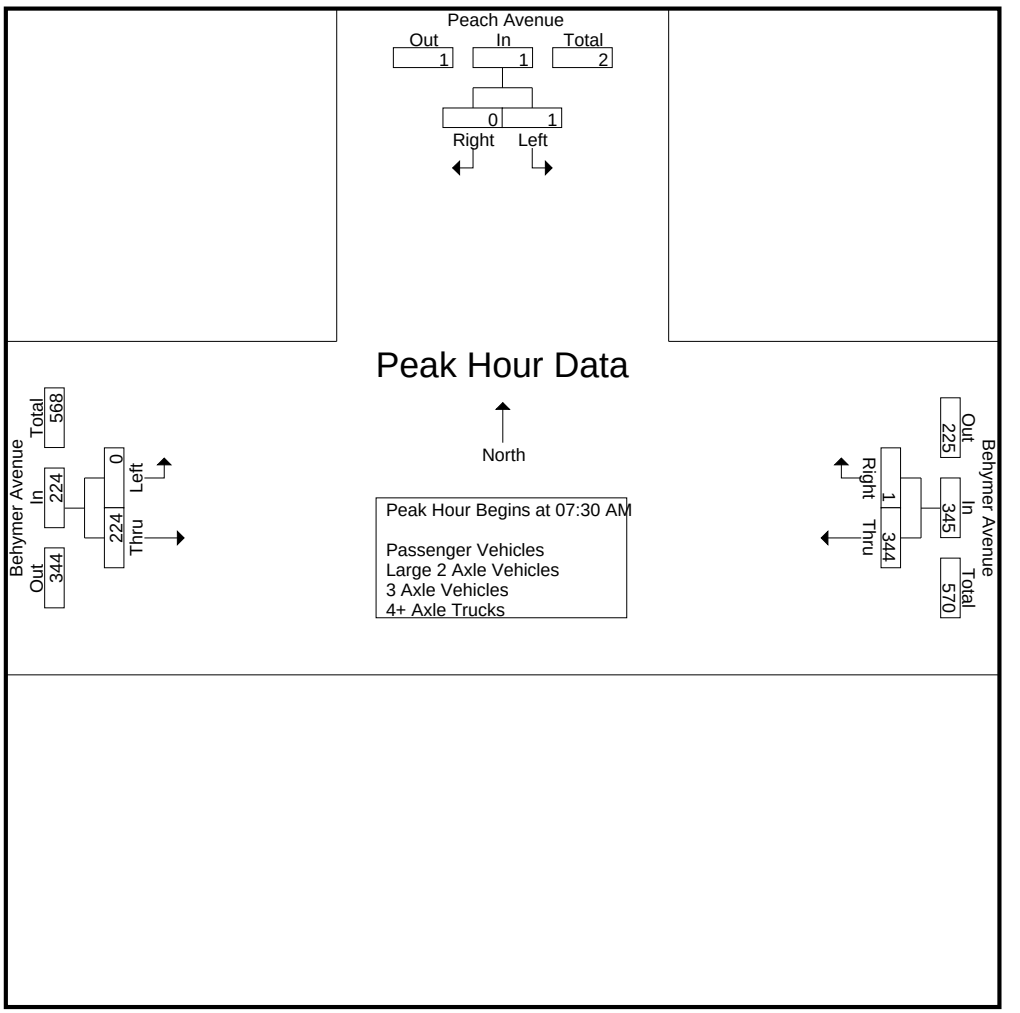
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:15 AM			07:45 AM		
+0 mins.	**1**	0	**1**	58	0	58	0	**69**	**69**
+15 mins.	0	0	0	**118**	**1**	**119**	0	65	65
+30 mins.	0	0	0	104	0	104	0	48	48
+45 mins.	0	0	0	72	0	72	**1**	42	43
Total Volume	1	0	1	352	1	353	1	224	225
% App. Total	100	0		99.7	0.3		0.4	99.6	
PHF	.250	.000	.250	.746	.250	.742	.250	.812	.815

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	1	0	1	32	0	32	0	39	39	72
07:15 AM	0	0	0	56	0	56	0	29	29	85
07:30 AM	0	0	0	117	1	118	0	42	42	160
07:45 AM	0	0	0	104	0	104	0	66	66	170
Total	1	0	1	309	1	310	0	176	176	487
08:00 AM	0	0	0	68	0	68	0	63	63	131
08:15 AM	1	0	1	50	0	50	0	46	46	97
08:30 AM	0	0	0	69	0	69	1	41	42	111
08:45 AM	0	0	0	70	0	70	0	42	42	112
Total	1	0	1	257	0	257	1	192	193	451
Grand Total	2	0	2	566	1	567	1	368	369	938
Apprch %	100	0		99.8	0.2		0.3	99.7		
Total %	0.2	0	0.2	60.3	0.1	60.4	0.1	39.2	39.3	

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	**117**	**1**	**118**	0	42	42	160
07:45 AM	0	0	0	104	0	104	0	**66**	**66**	**170**
08:00 AM	0	0	0	68	0	68	0	63	63	131
08:15 AM	**1**	0	**1**	50	0	50	0	46	46	97
Total Volume	1	0	1	339	1	340	0	217	217	558
% App. Total	100	0		99.7	0.3		0	100		
PHF	.250	.000	.250	.724	.250	.720	.000	.822	.822	.821

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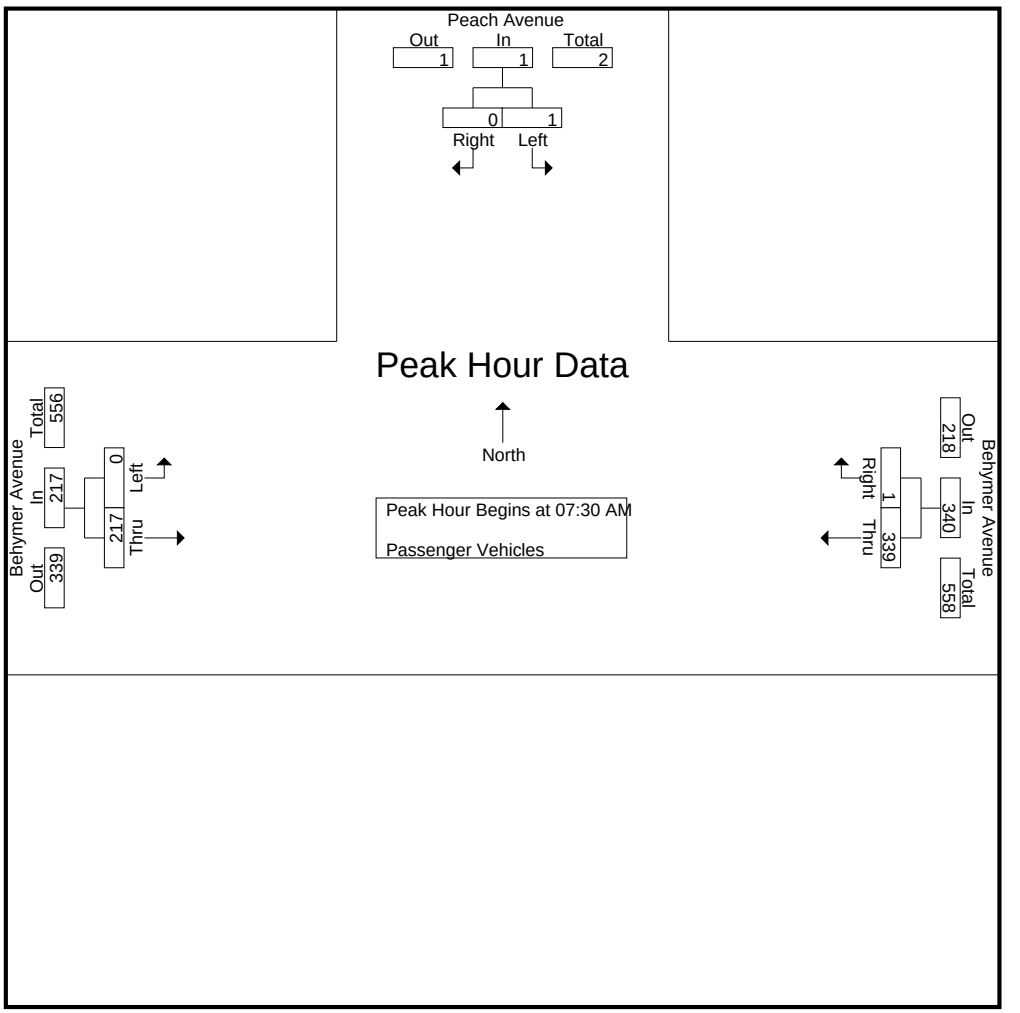
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	**117**	**1**	**118**	0	42	42
+15 mins.	0	0	0	104	0	104	0	**66**	**66**
+30 mins.	0	0	0	68	0	68	0	63	63
+45 mins.	**1**	0	**1**	50	0	50	0	46	46
Total Volume	1	0	1	339	1	340	0	217	217
% App. Total	100	0		99.7	0.3		0	100	
PHF	.250	.000	.250	.724	.250	.720	.000	.822	.822

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	1	0	1	0	0	0	1
07:15 AM	0	0	0	2	0	2	0	3	3	5
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	1	1	1
Total	0	0	0	3	0	3	0	4	4	7
08:00 AM	0	0	0	3	0	3	0	2	2	5
08:15 AM	0	0	0	0	0	0	0	2	2	2
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	3	0	3	0	4	4	7
Grand Total	0	0	0	6	0	6	0	8	8	14
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	42.9	0	42.9	0	57.1	57.1	

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	1	1	1
08:00 AM	0	0	0	**3**	0	**3**	0	**2**	**2**	**5**
08:15 AM	0	0	0	0	0	0	0	2	2	2
Total Volume	0	0	0	3	0	3	0	5	5	8
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.250	.000	.250	.000	.625	.625	.400

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City of Clovis
N/S: Peach Avenue
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Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
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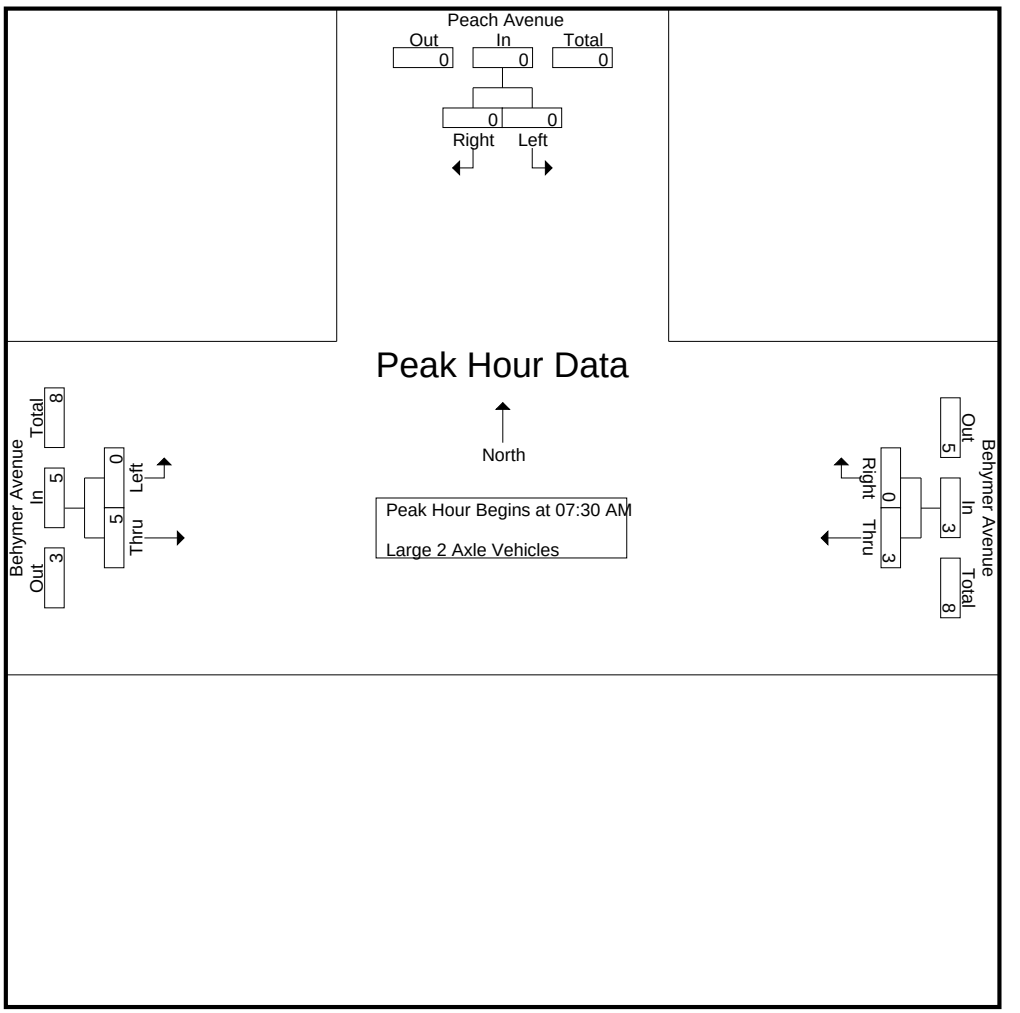

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	1	1
+30 mins.	0	0	0	**3**	0	**3**	0	**2**	**2**
+45 mins.	0	0	0	0	0	0	0	2	2
Total Volume	0	0	0	3	0	3	0	5	5
% App. Total	0	0		100	0		0	100	
PHF	.000	.000	.000	.250	.000	.250	.000	.625	.625

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	1	0	1	0	0	0	1
07:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	1	0	0	0	1
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	1	1	1
Total	0	0	0	0	0	0	0	1	1	1
Grand Total	0	0	0	1	0	1	0	1	1	2
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	50	0	50	0	50	50	

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	**1**	0	**1**	0	0	0	**1**
07:45 AM	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	1	0	1	0	0	0	1
% App. Total	0	0		100	0		0	0		
PHF	.000	.000	.000	.250	.000	.250	.000	.000	.000	.250

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
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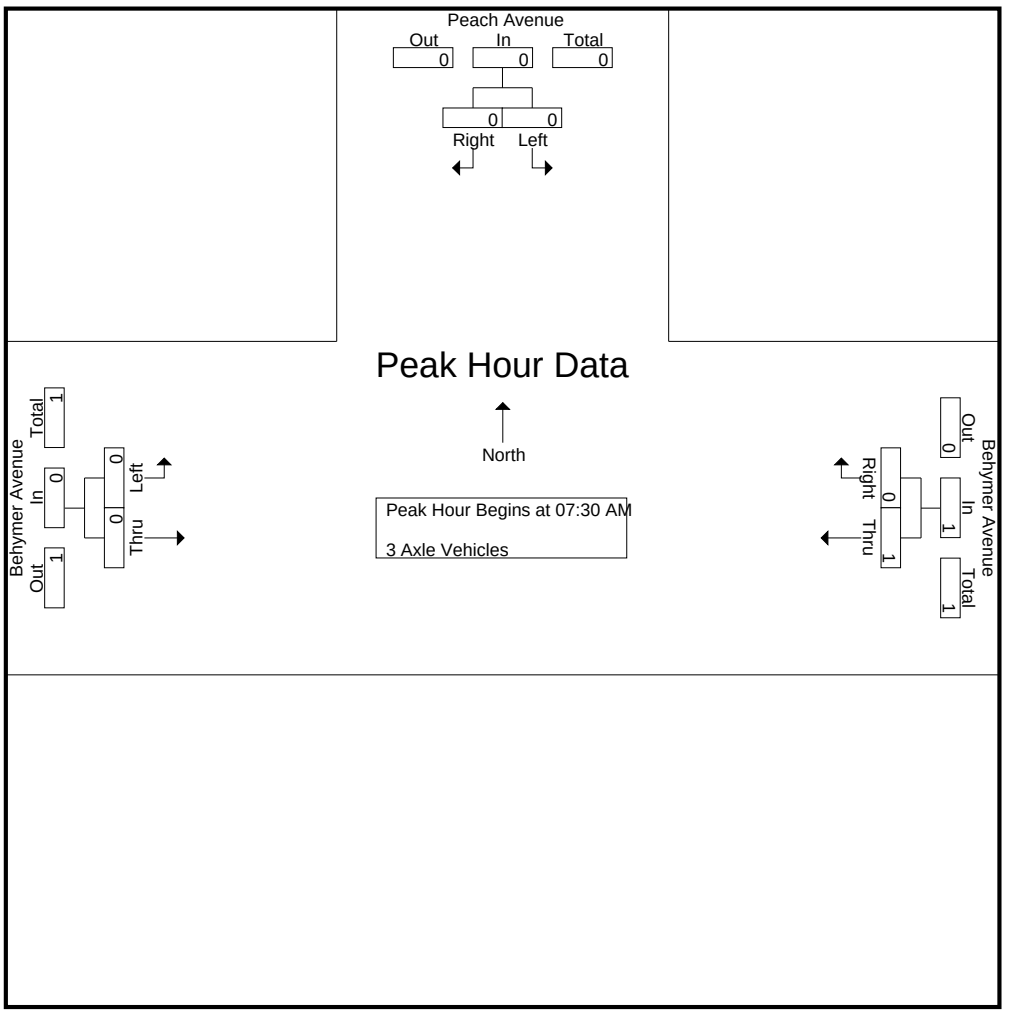

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	**1**	0	**1**	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	1	0	1	0	0	0
% App. Total	0	0		100	0		0	0	
PHF	.000	.000	.000	.250	.000	.250	.000	.000	.000

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	1	0	1	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	2	2	2
Total	0	0	0	1	0	1	0	2	2	3
08:00 AM	0	0	0	1	0	1	0	0	0	1
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	1	1	1
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	1	0	1	1	2
Grand Total	0	0	0	2	0	2	0	3	3	5
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	40	0	40	0	60	60	

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	**2**	**2**	**2**
08:00 AM	0	0	0	**1**	0	**1**	0	0	0	1
08:15 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	1	0	1	0	2	2	3
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.250	.000	.250	.000	.250	.250	.375

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh AMC
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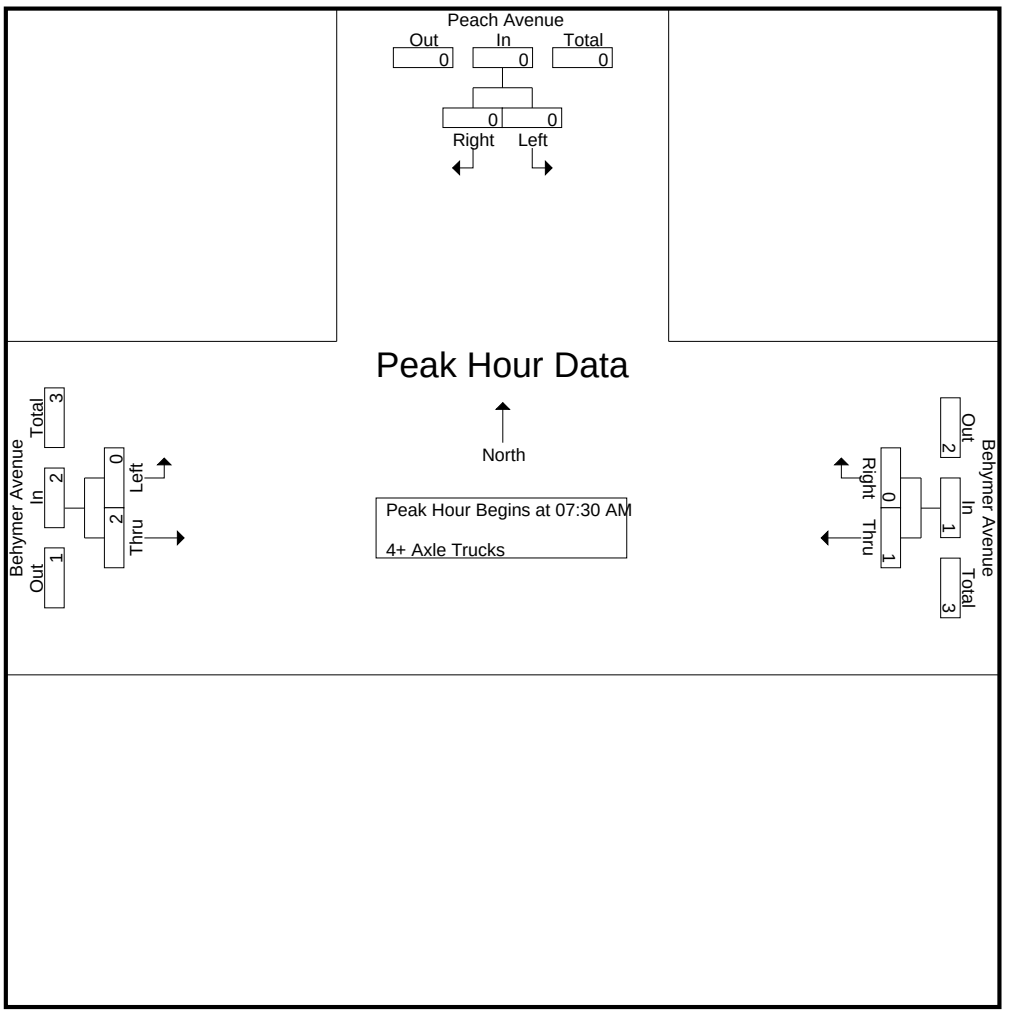

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	**2**	**2**
+30 mins.	0	0	0	**1**	0	**1**	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	1	0	1	0	2	2
% App. Total	0	0		100	0		0	100	
PHF	.000	.000	.000	.250	.000	.250	.000	.250	.250

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	67	0	67	0	69	69	136
04:15 PM	0	0	0	59	0	59	0	45	45	104
04:30 PM	0	0	0	56	0	56	0	72	72	128
04:45 PM	0	0	0	66	2	68	0	46	46	114
Total	0	0	0	248	2	250	0	232	232	482
05:00 PM	0	0	0	59	0	59	0	82	82	141
05:15 PM	0	1	1	74	0	74	1	61	62	137
05:30 PM	0	0	0	72	0	72	0	50	50	122
05:45 PM	0	0	0	88	0	88	0	48	48	136
Total	0	1	1	293	0	293	1	241	242	536
Grand Total	0	1	1	541	2	543	1	473	474	1018
Apprch %	0	100		99.6	0.4		0.2	99.8		
Total %	0	0.1	0.1	53.1	0.2	53.3	0.1	46.5	46.6	
Passenger Vehicles	0	1	1	539	2	541	1	467	468	1010
% Passenger Vehicles	0	100	100	99.6	100	99.6	100	98.7	98.7	99.2
Large 2 Axle Vehicles	0	0	0	2	0	2	0	6	6	8
% Large 2 Axle Vehicles	0	0	0	0.4	0	0.4	0	1.3	1.3	0.8
3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0
% 3 Axle Vehicles	0	0	0	0	0	0	0	0	0	0
4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0
% 4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	0	0	59	0	59	0	**82**	**82**	**141**
05:15 PM	0	**1**	**1**	74	0	74	**1**	61	62	137
05:30 PM	0	0	0	72	0	72	0	50	50	122
05:45 PM	0	0	0	**88**	0	**88**	0	48	48	136
Total Volume	0	1	1	293	0	293	1	241	242	536
% App. Total	0	100		100	0		0.4	99.6		
PHF	.000	.250	.250	.832	.000	.832	.250	.735	.738	.950

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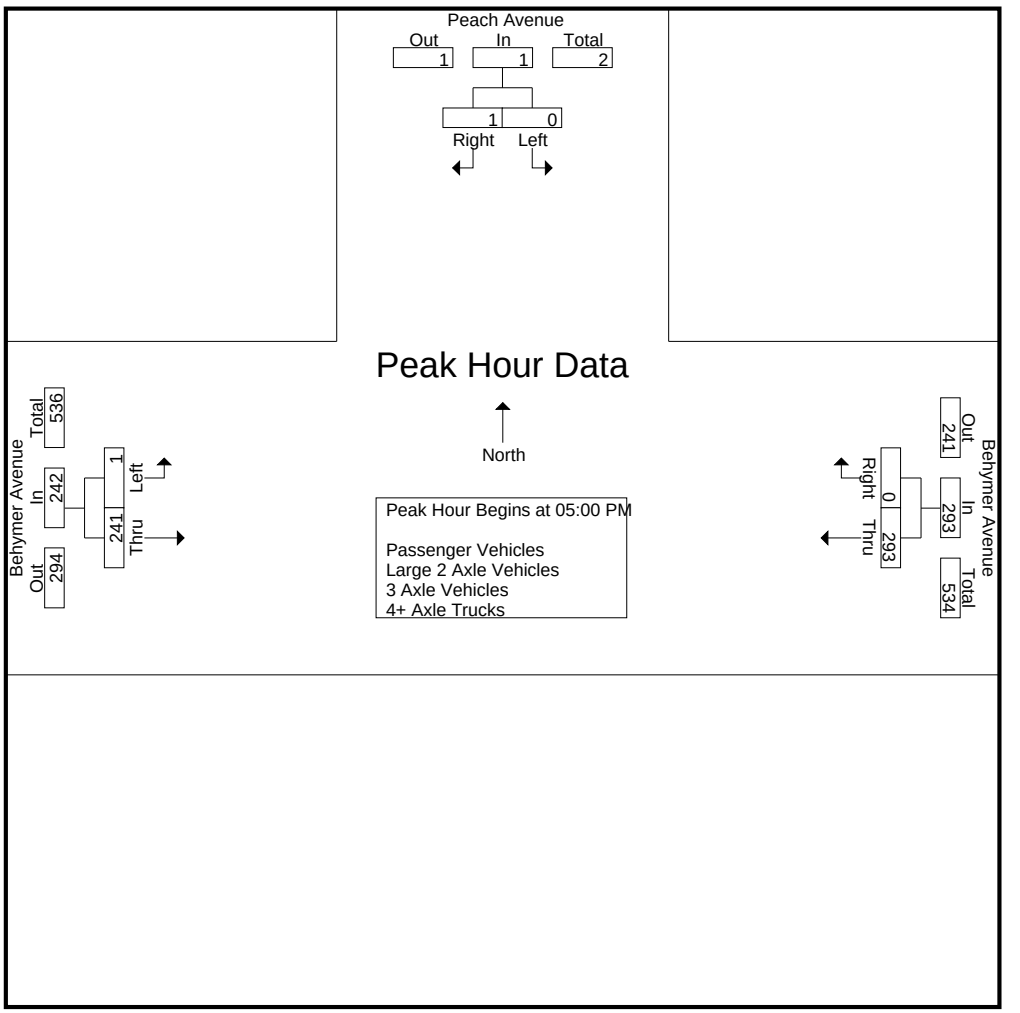
City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			05:00 PM			04:30 PM		
+0 mins.	0	0	0	59	0	59	0	72	72
+15 mins.	0	0	0	74	0	74	0	46	46
+30 mins.	0	0	0	72	0	72	0	**82**	**82**
+45 mins.	0	**1**	**1**	**88**	0	**88**	**1**	61	62
Total Volume	0	1	1	293	0	293	1	261	262
% App. Total	0	100		100	0		0.4	99.6	
PHF	.000	.250	.250	.832	.000	.832	.250	.796	.799

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Passenger Vehicles

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	67	0	67	0	68	68	135
04:15 PM	0	0	0	59	0	59	0	44	44	103
04:30 PM	0	0	0	56	0	56	0	72	72	128
04:45 PM	0	0	0	64	2	66	0	46	46	112
Total	0	0	0	246	2	248	0	230	230	478
05:00 PM	0	0	0	59	0	59	0	79	79	138
05:15 PM	0	1	1	74	0	74	1	61	62	137
05:30 PM	0	0	0	72	0	72	0	50	50	122
05:45 PM	0	0	0	88	0	88	0	47	47	135
Total	0	1	1	293	0	293	1	237	238	532
Grand Total	0	1	1	539	2	541	1	467	468	1010
Apprch %	0	100		99.6	0.4		0.2	99.8		
Total %	0	0.1	0.1	53.4	0.2	53.6	0.1	46.2	46.3	

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	0	0	59	0	59	0	**79**	**79**	**138**
05:15 PM	0	**1**	**1**	74	0	74	**1**	61	62	137
05:30 PM	0	0	0	72	0	72	0	50	50	122
05:45 PM	0	0	0	**88**	0	**88**	0	47	47	135
Total Volume	0	1	1	293	0	293	1	237	238	532
% App. Total	0	100		100	0		0.4	99.6		
PHF	.000	.250	.250	.832	.000	.832	.250	.750	.753	.964

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City of Clovis
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File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
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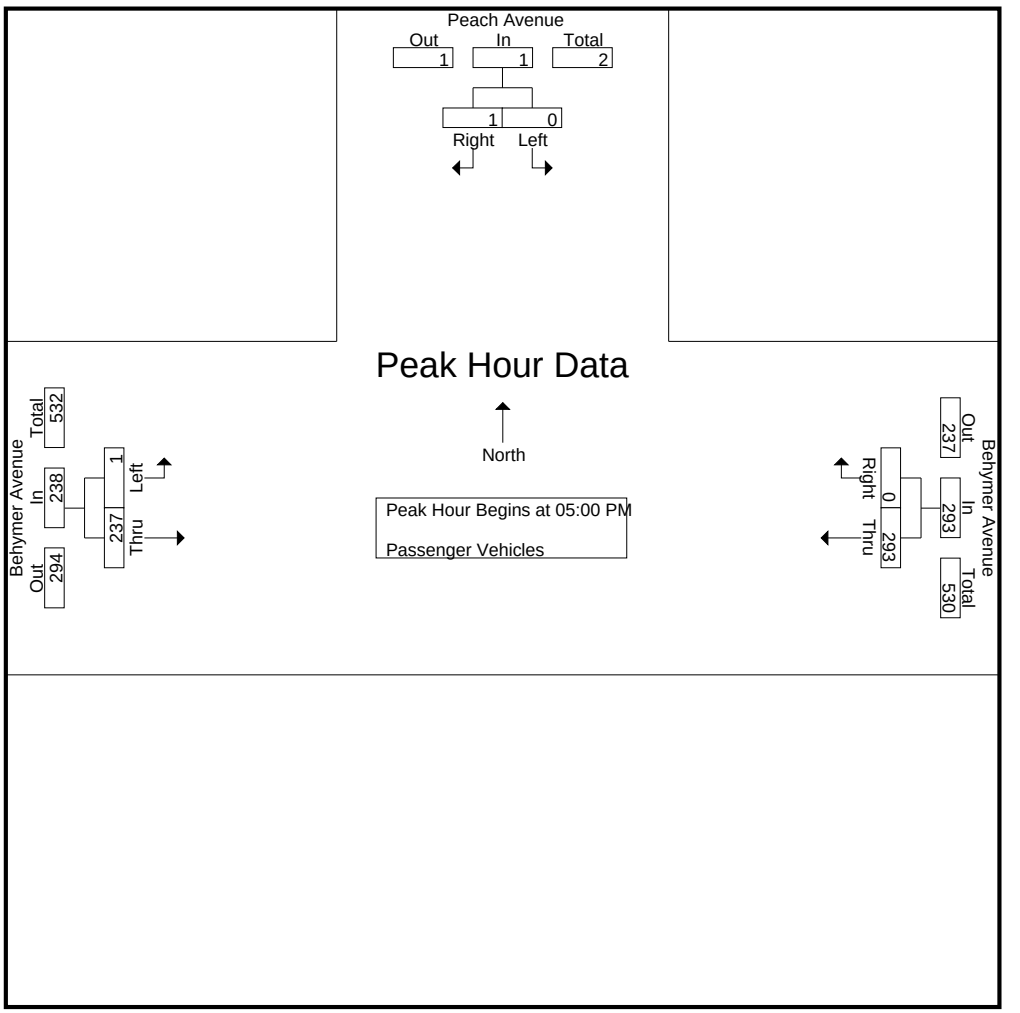

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	0	0	0	59	0	59	0	**79**	**79**
+15 mins.	0	**1**	**1**	74	0	74	**1**	61	62
+30 mins.	0	0	0	72	0	72	0	50	50
+45 mins.	0	0	0	**88**	0	**88**	0	47	47
Total Volume	0	1	1	293	0	293	1	237	238
% App. Total	0	100		100	0		0.4	99.6	
PHF	.000	.250	.250	.832	.000	.832	.250	.750	.753

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	1	1	1
04:15 PM	0	0	0	0	0	0	0	1	1	1
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	2	0	2	0	0	0	2
Total	0	0	0	2	0	2	0	2	2	4
05:00 PM	0	0	0	0	0	0	0	3	3	3
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	1	1	1
Total	0	0	0	0	0	0	0	4	4	4
Grand Total	0	0	0	2	0	2	0	6	6	8
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	25	0	25	0	75	75	

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	0	0	0	0	0	0	**3**	**3**	**3**
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	1	1	1
Total Volume	0	0	0	0	0	0	0	4	4	4
% App. Total	0	0		0	0		0	100		
PHF	.000	.000	.000	.000	.000	.000	.000	.333	.333	.333

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City of Clovis
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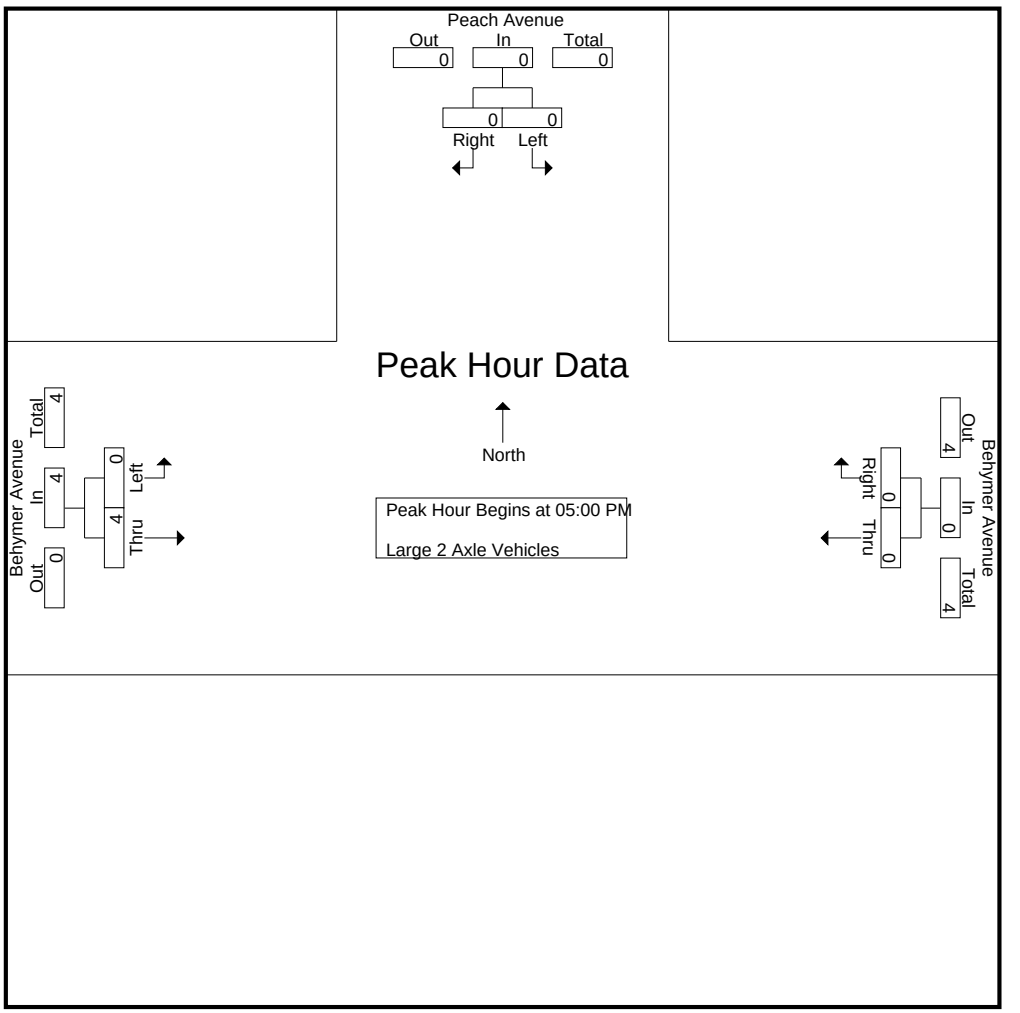

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	0	0	0	0	0	0	0	**3**	**3**
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	1	1
Total Volume	0	0	0	0	0	0	0	4	4
% App. Total	0	0		0	0		0	100	
PHF	.000	.000	.000	.000	.000	.000	.000	.333	.333

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Clovis
N/S: Peach Avenue
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File Name : 20_CVS_Peach_Beh PMC
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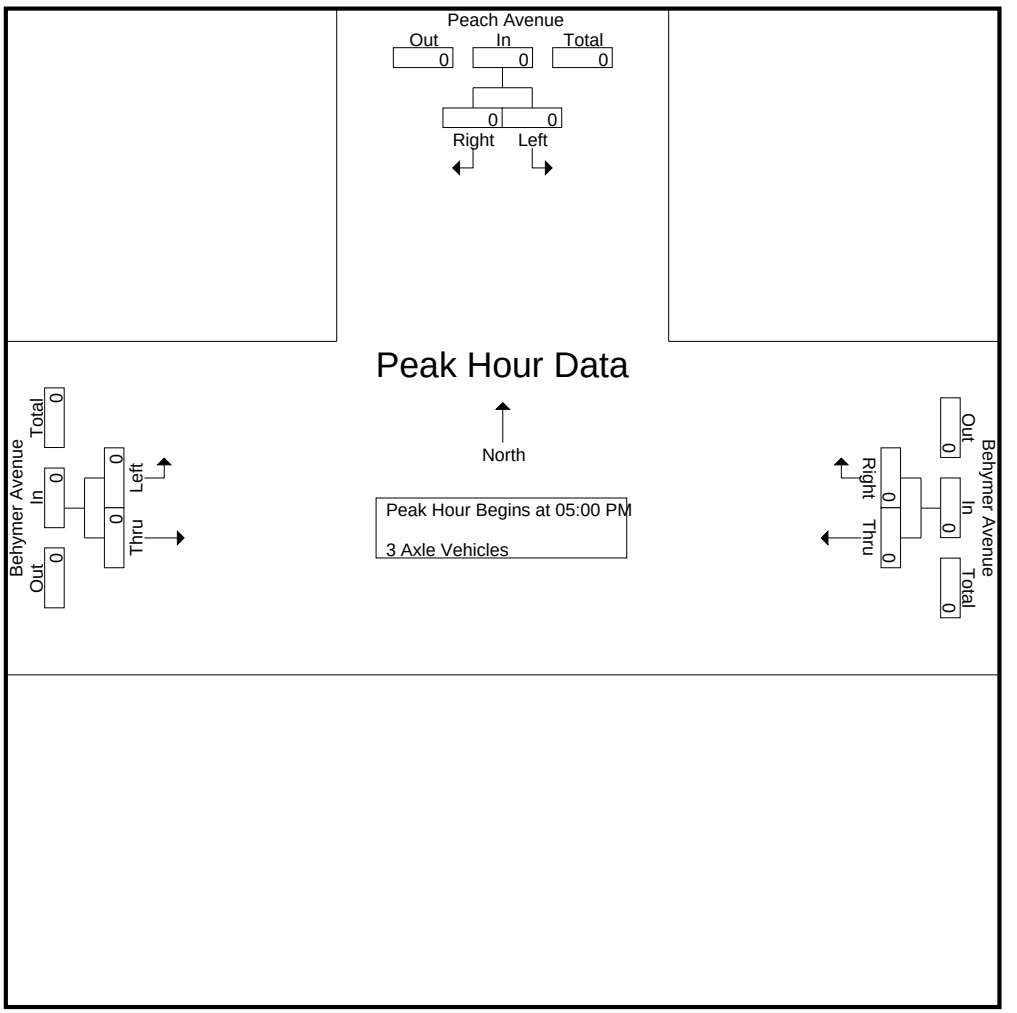

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Clovis
N/S: Peach Avenue
E/W: Behymer Avenue
Weather: Clear

File Name : 20_CVS_Peach_Beh PMC
Site Code : 00324176
Start Date : 3/6/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0		0	0		0	0		
Total %										

	Peach Avenue Southbound			Behymer Avenue Westbound			Behymer Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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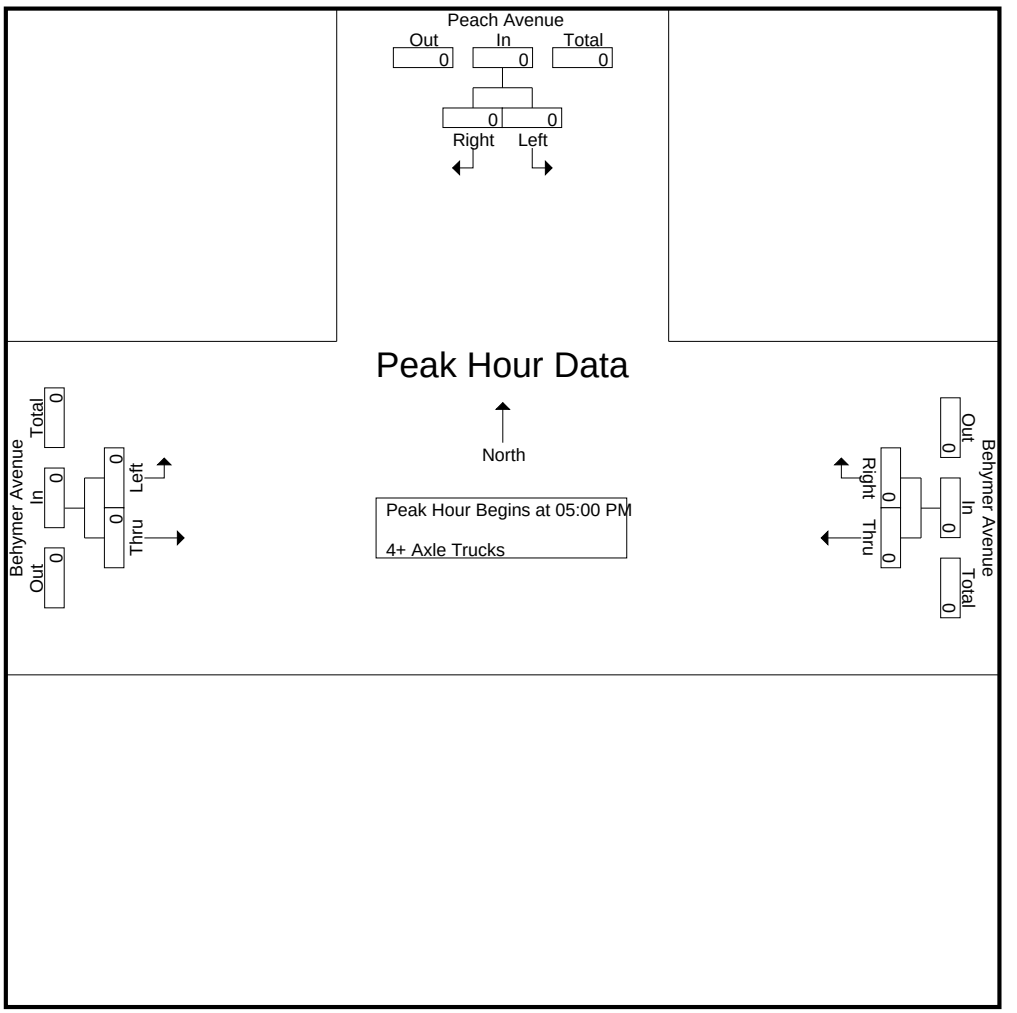

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000

Location: Clovis
N/S: Peach Avenue
E/W: Behymer Avenue

Date: 3/6/2024
Day: Wednesday

PEDESTRIANS

	North Leg Peach Avenue	East Leg Behymer Avenue	South Leg Dead End	West Leg Behymer Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0

	North Leg Peach Avenue	East Leg Behymer Avenue	South Leg Dead End	West Leg Behymer Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0

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Location: Clovis
N/S: Peach Avenue
E/W: Behymer Avenue

Date: 3/6/2024
Day: Wednesday

BICYCLES

	Southbound Peach Avenue			Westbound Behymer Avenue			Northbound Dead End			Eastbound Behymer Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	0	0

	Southbound Peach Avenue			Westbound Behymer Avenue			Northbound Dead End			Eastbound Behymer Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	0	0

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	27	30	0	57	7	34	31	72	5	38	2	45	1	21	8	30	204
07:15 AM	29	34	2	65	4	49	47	100	8	42	7	57	2	28	12	42	264
07:30 AM	51	55	1	107	7	68	48	123	29	36	6	71	2	40	13	55	356
07:45 AM	27	61	4	92	14	56	57	127	22	48	2	72	1	35	37	73	364
Total	134	180	7	321	32	207	183	422	64	164	17	245	6	124	70	200	1188
08:00 AM	27	60	0	87	9	32	76	117	9	62	8	79	0	44	15	59	342
08:15 AM	34	45	1	80	11	39	84	134	13	72	5	90	1	30	15	46	350
08:30 AM	63	48	0	111	4	32	35	71	8	62	6	76	1	37	9	47	305
08:45 AM	31	35	0	66	3	46	32	81	6	31	6	43	0	28	12	40	230
Total	155	188	1	344	27	149	227	403	36	227	25	288	2	139	51	192	1227
Grand Total	289	368	8	665	59	356	410	825	100	391	42	533	8	263	121	392	2415
Apprch %	43.5	55.3	1.2		7.2	43.2	49.7		18.8	73.4	7.9		2	67.1	30.9		
Total %	12	15.2	0.3	27.5	2.4	14.7	17	34.2	4.1	16.2	1.7	22.1	0.3	10.9	5	16.2	
Passenger Vehicles	274	357	6	637	55	341	393	789	95	364	38	497	7	248	117	372	2295
% Passenger Vehicles	94.8	97	75	95.8	93.2	95.8	95.9	95.6	95	93.1	90.5	93.2	87.5	94.3	96.7	94.9	95
Large 2 Axle Vehicles	3	3	0	6	1	9	0	10	3	12	1	16	1	9	4	14	46
% Large 2 Axle Vehicles	1	0.8	0	0.9	1.7	2.5	0	1.2	3	3.1	2.4	3	12.5	3.4	3.3	3.6	1.9
3 Axle Vehicles	7	4	1	12	0	2	6	8	1	6	1	8	0	5	0	5	33
% 3 Axle Vehicles	2.4	1.1	12.5	1.8	0	0.6	1.5	1	1	1.5	2.4	1.5	0	1.9	0	1.3	1.4
4+ Axle Trucks	5	4	1	10	3	4	11	18	1	9	2	12	0	1	0	1	41
% 4+ Axle Trucks	1.7	1.1	12.5	1.5	5.1	1.1	2.7	2.2	1	2.3	4.8	2.3	0	0.4	0	0.3	1.7

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**51**	55	1	**107**	7	**68**	48	123	**29**	36	6	71	**2**	40	13	55	356
07:45 AM	27	**61**	**4**	92	**14**	56	57	127	22	48	2	72	1	35	**37**	**73**	**364**
08:00 AM	27	60	0	87	9	32	76	117	9	62	**8**	79	0	**44**	15	59	342
08:15 AM	34	45	1	80	11	39	**84**	**134**	13	**72**	5	**90**	1	30	15	46	350
Total Volume	139	221	6	366	41	195	265	501	73	218	21	312	4	149	80	233	1412
% App. Total	38	60.4	1.6		8.2	38.9	52.9		23.4	69.9	6.7		1.7	63.9	34.3		
PHF	.681	.906	.375	.855	.732	.717	.789	.935	.629	.757	.656	.867	.500	.847	.541	.798	.970

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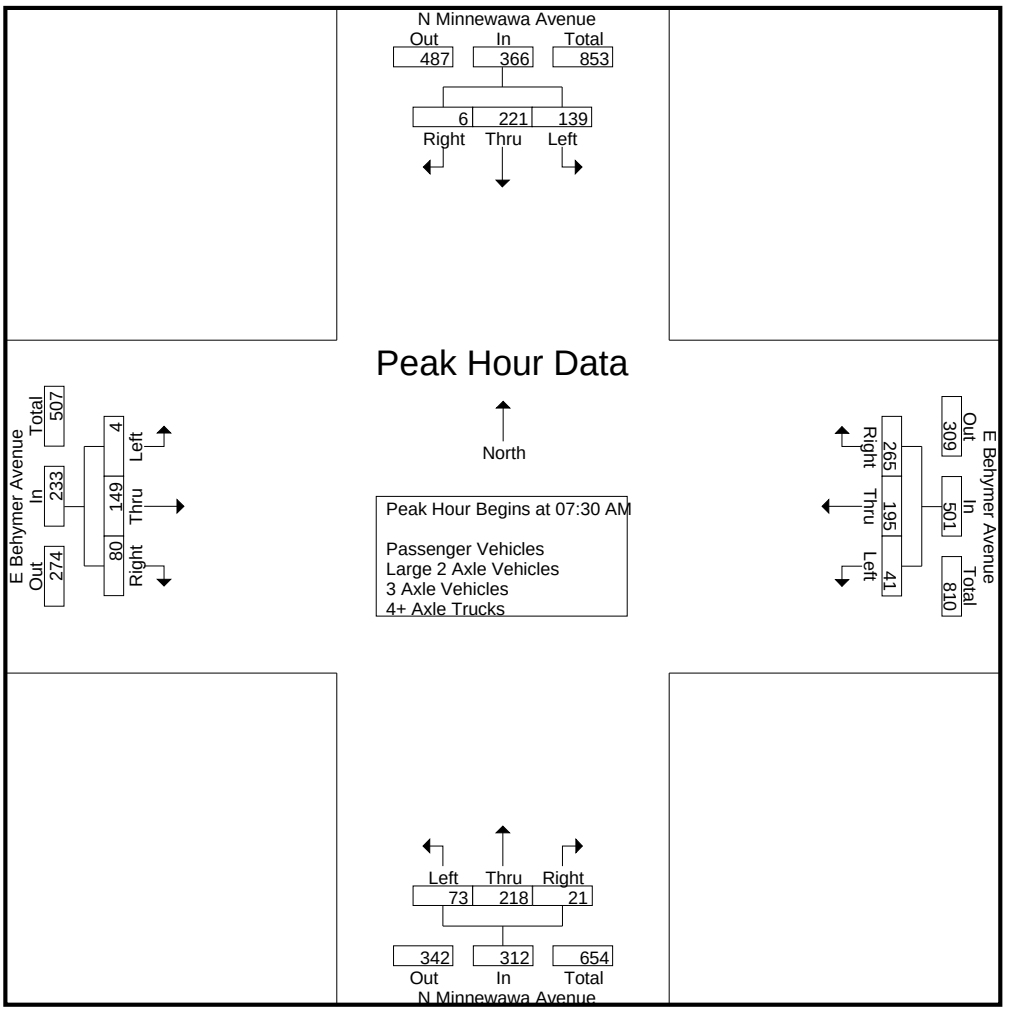

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:30 AM				07:45 AM				07:30 AM			
+0 mins.	27	**61**	**4**	92	7	**68**	48	123	**22**	48	2	72	**2**	40	13	55
+15 mins.	27	60	0	87	**14**	56	57	127	9	62	**8**	79	1	35	**37**	**73**
+30 mins.	34	45	1	80	9	32	76	117	13	**72**	5	**90**	0	**44**	15	59
+45 mins.	**63**	48	0	**111**	11	39	**84**	**134**	8	62	6	76	1	30	15	46
Total Volume	151	214	5	370	41	195	265	501	52	244	21	317	4	149	80	233
% App. Total	40.8	57.8	1.4		8.2	38.9	52.9		16.4	77	6.6		1.7	63.9	34.3	
PHF	.599	.877	.313	.833	.732	.717	.789	.935	.591	.847	.656	.881	.500	.847	.541	.798

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Groups Printed- Passenger Vehicles

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	27	29	0	56	5	32	27	64	5	34	2	41	1	20	8	29	190
07:15 AM	28	33	2	63	4	49	45	98	8	40	7	55	1	25	12	38	254
07:30 AM	50	54	0	104	7	66	48	121	29	32	5	66	2	39	13	54	345
07:45 AM	27	61	3	91	14	49	55	118	19	45	2	66	1	32	36	69	344
Total	132	177	5	314	30	196	175	401	61	151	16	228	5	116	69	190	1133
08:00 AM	26	58	0	84	8	29	73	110	9	58	7	74	0	42	15	57	325
08:15 AM	32	43	1	76	11	39	82	132	12	67	4	83	1	29	12	42	333
08:30 AM	58	46	0	104	3	32	34	69	8	60	6	74	1	36	9	46	293
08:45 AM	26	33	0	59	3	45	29	77	5	28	5	38	0	25	12	37	211
Total	142	180	1	323	25	145	218	388	34	213	22	269	2	132	48	182	1162
Grand Total	274	357	6	637	55	341	393	789	95	364	38	497	7	248	117	372	2295
Apprch %	43	56	0.9		7	43.2	49.8		19.1	73.2	7.6		1.9	66.7	31.5		
Total %	11.9	15.6	0.3	27.8	2.4	14.9	17.1	34.4	4.1	15.9	1.7	21.7	0.3	10.8	5.1	16.2	

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**50**	54	0	**104**	7	**66**	48	121	**29**	32	5	66	**2**	39	13	54	**345**
07:45 AM	27	**61**	**3**	91	**14**	49	55	118	19	45	2	66	1	32	**36**	**69**	344
08:00 AM	26	58	0	84	8	29	73	110	9	58	**7**	74	0	**42**	15	57	325
08:15 AM	32	43	1	76	11	39	**82**	**132**	12	**67**	4	**83**	1	29	12	42	333
Total Volume	135	216	4	355	40	183	258	481	69	202	18	289	4	142	76	222	1347
% App. Total	38	60.8	1.1		8.3	38	53.6		23.9	69.9	6.2		1.8	64	34.2		
PHF	.675	.885	.333	.853	.714	.693	.787	.911	.595	.754	.643	.870	.500	.845	.528	.804	.976

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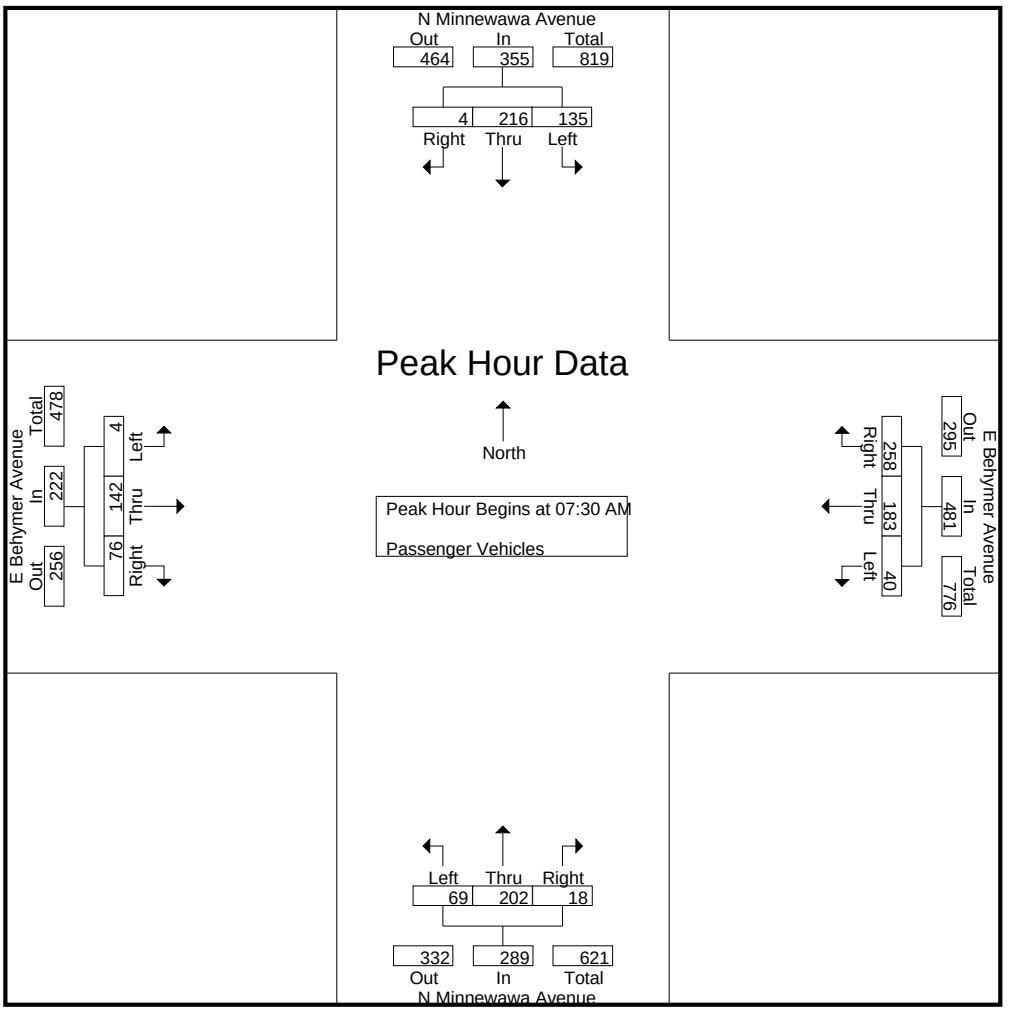

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	**50**	54	0	**104**	7	**66**	48	121	**29**	32	5	66	**2**	39	13	54
+15 mins.	27	**61**	**3**	91	**14**	49	55	118	19	45	2	66	1	32	**36**	**69**
+30 mins.	26	58	0	84	8	29	73	110	9	58	**7**	74	0	**42**	15	57
+45 mins.	32	43	1	76	11	39	**82**	**132**	12	**67**	4	**83**	1	29	12	42
Total Volume	135	216	4	355	40	183	258	481	69	202	18	289	4	142	76	222
% App. Total	38	60.8	1.1		8.3	38	53.6		23.9	69.9	6.2		1.8	64	34.2	
PHF	.675	.885	.333	.853	.714	.693	.787	.911	.595	.754	.643	.870	.500	.845	.528	.804

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Groups Printed- Large 2 Axle Vehicles

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	1	0	1	0	2	0	2	0	1	0	1	4
07:15 AM	0	0	0	0	0	0	0	0	0	2	0	2	1	2	0	3	5
07:30 AM	0	1	0	1	0	2	0	2	0	2	0	2	0	1	0	1	6
07:45 AM	0	0	0	0	0	5	0	5	2	2	0	4	0	2	1	3	12
Total	0	1	0	1	0	8	0	8	2	8	0	10	1	6	1	8	27
08:00 AM	0	1	0	1	0	1	0	1	0	2	0	2	0	1	0	1	5
08:15 AM	0	1	0	1	0	0	0	0	0	1	0	1	0	1	3	4	6
08:30 AM	1	0	0	1	1	0	0	1	0	1	0	1	0	0	0	0	3
08:45 AM	2	0	0	2	0	0	0	0	1	0	1	2	0	1	0	1	5
Total	3	2	0	5	1	1	0	2	1	4	1	6	0	3	3	6	19
Grand Total	3	3	0	6	1	9	0	10	3	12	1	16	1	9	4	14	46
Apprch %	50	50	0		10	90	0		18.8	75	6.2		7.1	64.3	28.6		
Total %	6.5	6.5	0	13	2.2	19.6	0	21.7	6.5	26.1	2.2	34.8	2.2	19.6	8.7	30.4	

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	**1**	0	**1**	0	2	0	2	0	**2**	0	2	0	1	0	1	6
07:45 AM	0	0	0	0	0	**5**	0	**5**	**2**	2	0	**4**	0	**2**	1	3	**12**
08:00 AM	0	1	0	1	0	1	0	1	0	2	0	2	0	1	0	1	5
08:15 AM	0	1	0	1	0	0	0	0	0	1	0	1	0	1	**3**	**4**	6
Total Volume	0	3	0	3	0	8	0	8	2	7	0	9	0	5	4	9	29
% App. Total	0	100	0		0	100	0		22.2	77.8	0		0	55.6	44.4		
PHF	.000	.750	.000	.750	.000	.400	.000	.400	.250	.875	.000	.563	.000	.625	.333	.563	.604

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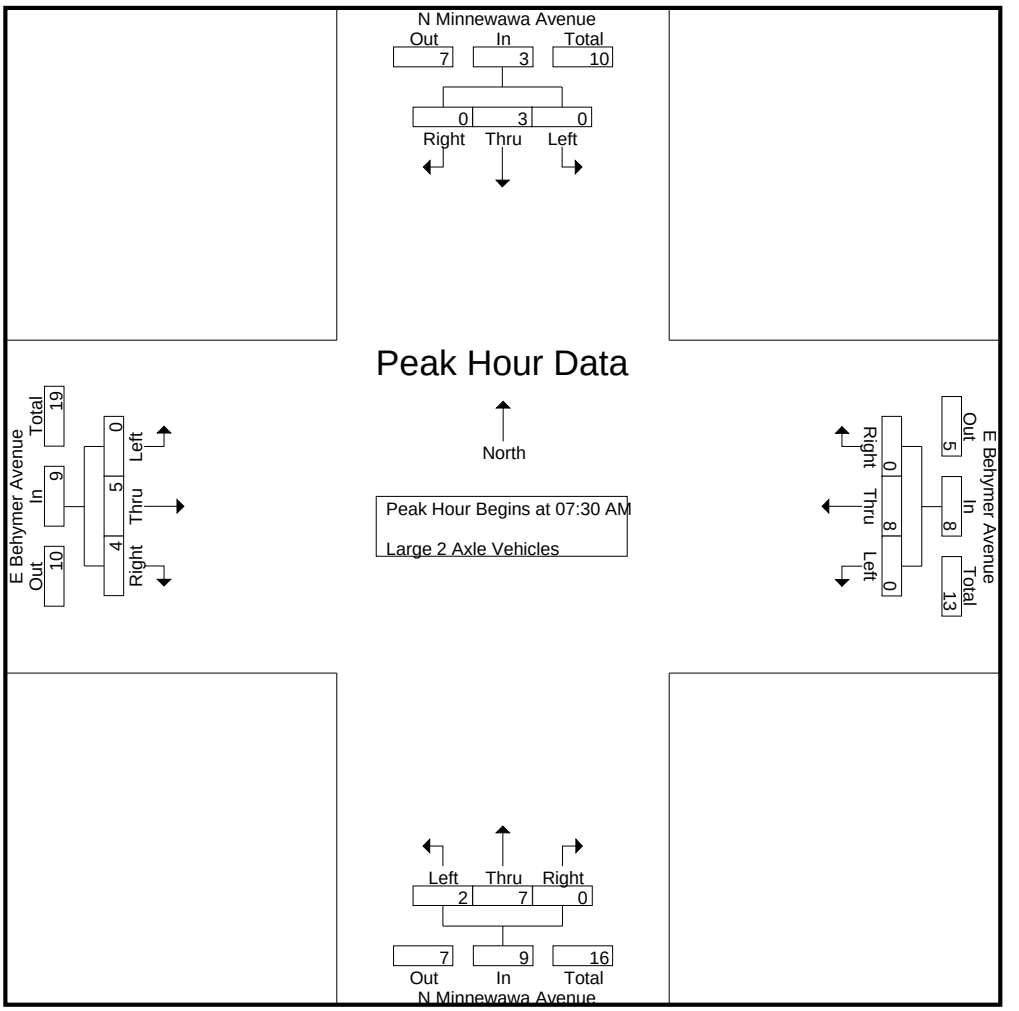

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	**1**	0	**1**	0	2	0	2	0	**2**	0	2	0	1	0	1
+15 mins.	0	0	0	0	0	**5**	0	**5**	**2**	2	0	**4**	0	**2**	1	3
+30 mins.	0	1	0	1	0	1	0	1	0	2	0	2	0	1	0	1
+45 mins.	0	1	0	1	0	0	0	0	0	1	0	1	0	1	**3**	**4**
Total Volume	0	3	0	3	0	8	0	8	2	7	0	9	0	5	4	9
% App. Total	0	100	0		0	100	0		22.2	77.8	0		0	55.6	44.4	
PHF	.000	.750	.000	.750	.000	.400	.000	.400	.250	.875	.000	.563	.000	.625	.333	.563

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Groups Printed- 3 Axle Vehicles

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	2	2	0	1	0	1	0	0	0	0	3
07:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	2
07:30 AM	0	0	1	1	0	0	0	0	0	1	1	2	0	0	0	0	3
07:45 AM	0	0	0	0	0	2	1	3	1	0	0	1	0	1	0	1	5
Total	0	1	1	2	0	2	3	5	1	2	1	4	0	2	0	2	13
08:00 AM	0	0	0	0	0	0	1	1	0	1	0	1	0	1	0	1	3
08:15 AM	1	1	0	2	0	0	1	1	0	2	0	2	0	0	0	0	5
08:30 AM	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
08:45 AM	2	1	0	3	0	0	1	1	0	1	0	1	0	2	0	2	7
Total	7	3	0	10	0	0	3	3	0	4	0	4	0	3	0	3	20
Grand Total	7	4	1	12	0	2	6	8	1	6	1	8	0	5	0	5	33
Apprch %	58.3	33.3	8.3		0	25	75		12.5	75	12.5		0	100	0		
Total %	21.2	12.1	3	36.4	0	6.1	18.2	24.2	3	18.2	3	24.2	0	15.2	0	15.2	

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	**1**	1	0	0	0	0	0	1	**1**	**2**	0	0	0	0	3
07:45 AM	0	0	0	0	0	**2**	**1**	**3**	**1**	0	0	1	0	**1**	0	**1**	**5**
08:00 AM	0	0	0	0	0	0	1	1	0	1	0	1	0	1	0	1	3
08:15 AM	**1**	**1**	0	**2**	0	0	1	1	0	**2**	0	2	0	0	0	0	5
Total Volume	1	1	1	3	0	2	3	5	1	4	1	6	0	2	0	2	16
% App. Total	33.3	33.3	33.3		0	40	60		16.7	66.7	16.7		0	100	0		
PHF	.250	.250	.250	.375	.000	.250	.750	.417	.250	.500	.250	.750	.000	.500	.000	.500	.800

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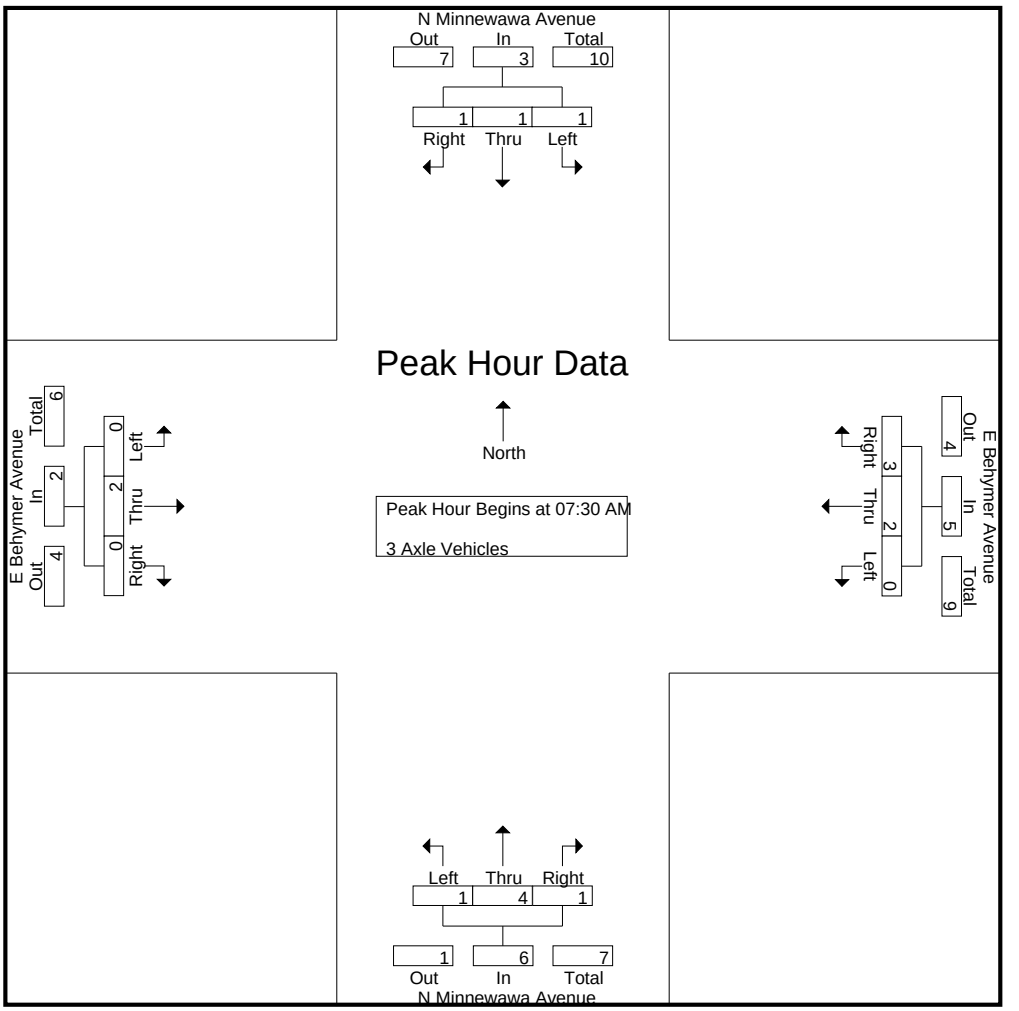

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	**1**	1	0	0	0	0	0	1	**1**	**2**	0	0	0	0
+15 mins.	0	0	0	0	0	**2**	**1**	**3**	**1**	0	0	1	0	**1**	0	**1**
+30 mins.	0	0	0	0	0	0	1	1	0	1	0	1	0	1	0	1
+45 mins.	**1**	**1**	0	**2**	0	0	1	1	0	**2**	0	2	0	0	0	0
Total Volume	1	1	1	3	0	2	3	5	1	4	1	6	0	2	0	2
% App. Total	33.3	33.3	33.3		0	40	60		16.7	66.7	16.7		0	100	0	
PHF	.250	.250	.250	.375	.000	.250	.750	.417	.250	.500	.250	.750	.000	.500	.000	.500

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Groups Printed- 4+ Axle Trucks

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	1	0	1	2	1	2	5	0	1	0	1	0	0	0	0	7
07:15 AM	1	0	0	1	0	0	2	2	0	0	0	0	0	0	0	0	3
07:30 AM	1	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
07:45 AM	0	0	1	1	0	0	1	1	0	1	0	1	0	0	0	0	3
Total	2	1	1	4	2	1	5	8	0	3	0	3	0	0	0	0	15
08:00 AM	1	1	0	2	1	2	2	5	0	1	1	2	0	0	0	0	9
08:15 AM	1	0	0	1	0	0	1	1	1	2	1	4	0	0	0	0	6
08:30 AM	0	1	0	1	0	0	1	1	0	1	0	1	0	1	0	1	4
08:45 AM	1	1	0	2	0	1	2	3	0	2	0	2	0	0	0	0	7
Total	3	3	0	6	1	3	6	10	1	6	2	9	0	1	0	1	26
Grand Total	5	4	1	10	3	4	11	18	1	9	2	12	0	1	0	1	41
Apprch %	50	40	10		16.7	22.2	61.1		8.3	75	16.7		0	100	0		
Total %	12.2	9.8	2.4	24.4	7.3	9.8	26.8	43.9	2.4	22	4.9	29.3	0	2.4	0	2.4	

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**1**	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
07:45 AM	0	0	**1**	1	0	0	1	1	0	1	0	1	0	0	0	0	3
08:00 AM	1	**1**	0	**2**	**1**	**2**	**2**	**5**	0	1	**1**	2	0	0	0	0	**9**
08:15 AM	1	0	0	1	0	0	1	1	**1**	**2**	1	**4**	0	0	0	0	6
Total Volume	3	1	1	5	1	2	4	7	1	5	2	8	0	0	0	0	20
% App. Total	60	20	20		14.3	28.6	57.1		12.5	62.5	25		0	0	0		
PHF	.750	.250	.250	.625	.250	.250	.500	.350	.250	.625	.500	.500	.000	.000	.000	.000	.556

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County of Fresno
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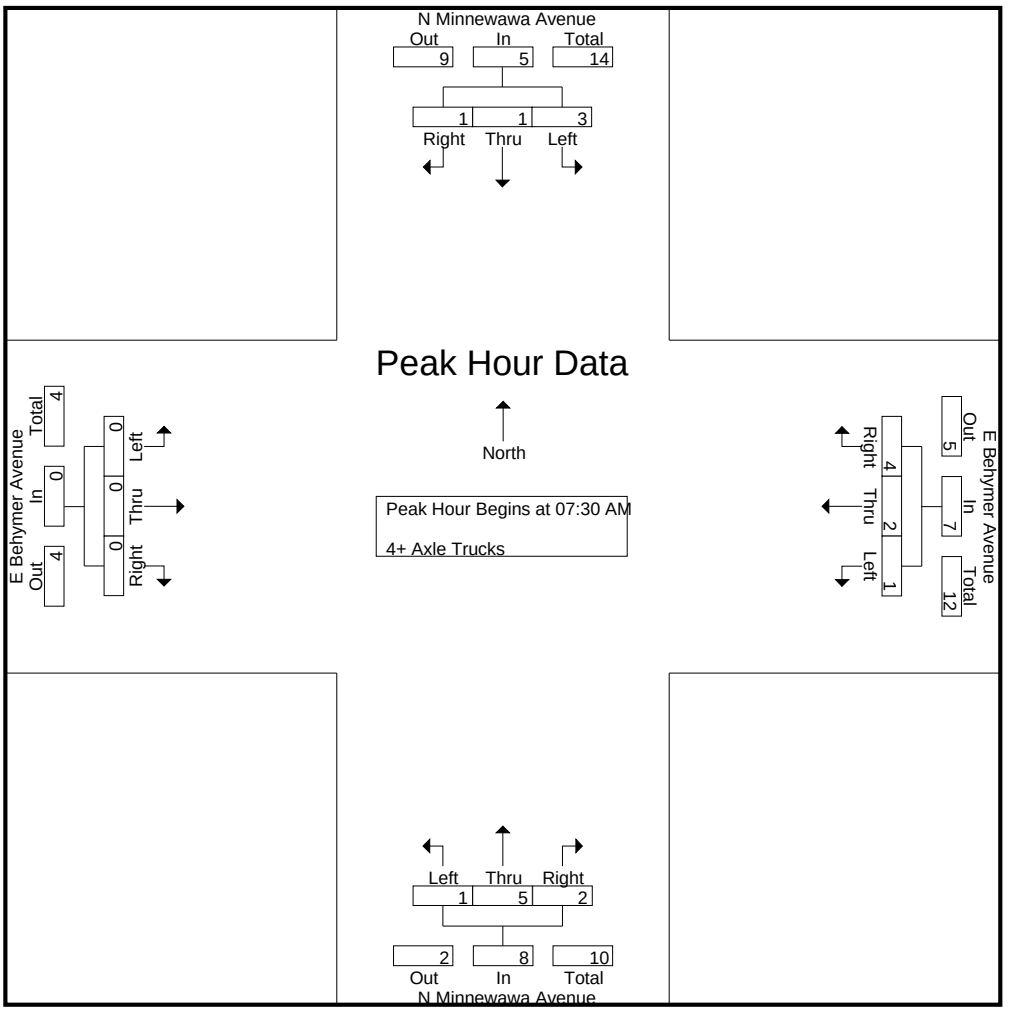
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	**1**	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0
+15 mins.	0	0	**1**	1	0	0	1	1	0	1	0	1	0	0	0	0
+30 mins.	1	**1**	0	**2**	**1**	**2**	**2**	**5**	0	1	**1**	2	0	0	0	0
+45 mins.	1	0	0	1	0	0	1	1	**1**	**2**	1	**4**	0	0	0	0
Total Volume	3	1	1	5	1	2	4	7	1	5	2	8	0	0	0	0
% App. Total	60	20	20		14.3	28.6	57.1		12.5	62.5	25		0	0	0	
PHF	.750	.250	.250	.625	.250	.250	.500	.350	.250	.625	.500	.500	.000	.000	.000	.000

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County of Fresno
N/S: N Minnewawa Avenue
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Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	44	50	0	94	6	22	35	63	17	54	12	83	1	35	8	44	284
04:15 PM	29	50	1	80	4	34	38	76	14	54	4	72	0	33	5	38	266
04:30 PM	36	52	0	88	9	40	40	89	8	50	8	66	2	30	10	42	285
04:45 PM	30	49	1	80	6	39	36	81	12	56	6	74	1	31	8	40	275
Total	139	201	2	342	25	135	149	309	51	214	30	295	4	129	31	164	1110
05:00 PM	40	48	0	88	11	44	29	84	15	44	8	67	2	44	14	60	299
05:15 PM	48	42	1	91	11	61	47	119	9	66	8	83	0	38	9	47	340
05:30 PM	45	47	0	92	5	51	37	93	15	70	6	91	1	35	10	46	322
05:45 PM	25	33	2	60	7	63	39	109	13	69	11	93	1	30	12	43	305
Total	158	170	3	331	34	219	152	405	52	249	33	334	4	147	45	196	1266
Grand Total	297	371	5	673	59	354	301	714	103	463	63	629	8	276	76	360	2376
Apprch %	44.1	55.1	0.7		8.3	49.6	42.2		16.4	73.6	10		2.2	76.7	21.1		
Total %	12.5	15.6	0.2	28.3	2.5	14.9	12.7	30.1	4.3	19.5	2.7	26.5	0.3	11.6	3.2	15.2	
Passenger Vehicles	290	353	5	648	57	347	295	699	101	451	62	614	8	269	75	352	2313
% Passenger Vehicles	97.6	95.1	100	96.3	96.6	98	98	97.9	98.1	97.4	98.4	97.6	100	97.5	98.7	97.8	97.3
Large 2 Axle Vehicles	2	4	0	6	1	1	2	4	0	4	1	5	0	3	0	3	18
% Large 2 Axle Vehicles	0.7	1.1	0	0.9	1.7	0.3	0.7	0.6	0	0.9	1.6	0.8	0	1.1	0	0.8	0.8
3 Axle Vehicles	1	7	0	8	1	1	1	3	1	3	0	4	0	4	0	4	19
% 3 Axle Vehicles	0.3	1.9	0	1.2	1.7	0.3	0.3	0.4	1	0.6	0	0.6	0	1.4	0	1.1	0.8
4+ Axle Trucks	4	7	0	11	0	5	3	8	1	5	0	6	0	0	1	1	26
% 4+ Axle Trucks	1.3	1.9	0	1.6	0	1.4	1	1.1	1	1.1	0	1	0	0	1.3	0.3	1.1

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	40	**48**	0	88	**11**	44	29	84	**15**	44	8	67	**2**	**44**	**14**	**60**	299
05:15 PM	**48**	42	1	91	11	61	**47**	**119**	9	66	8	83	0	38	9	47	**340**
05:30 PM	45	47	0	**92**	5	51	37	93	15	**70**	6	91	1	35	10	46	322
05:45 PM	25	33	**2**	60	7	**63**	39	109	13	69	**11**	**93**	1	30	12	43	305
Total Volume	158	170	3	331	34	219	152	405	52	249	33	334	4	147	45	196	1266
% App. Total	47.7	51.4	0.9		8.4	54.1	37.5		15.6	74.6	9.9		2	75	23		
PHF	.823	.885	.375	.899	.773	.869	.809	.851	.867	.889	.750	.898	.500	.835	.804	.817	.931

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Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
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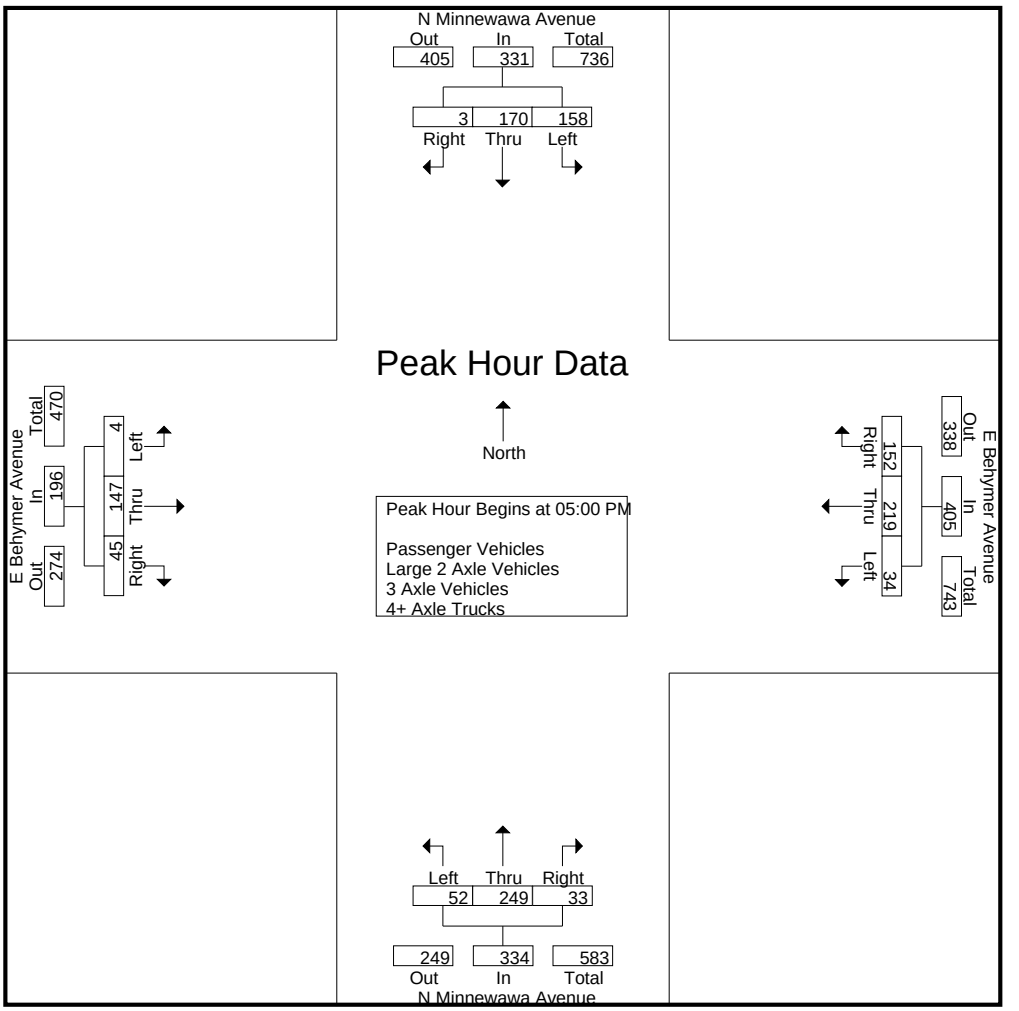

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	30	**49**	**1**	80	**11**	44	29	84	**15**	44	8	67	**2**	**44**	**14**	**60**
+15 mins.	40	48	0	88	11	61	**47**	**119**	9	66	8	83	0	38	9	47
+30 mins.	**48**	42	1	91	5	51	37	93	15	**70**	6	91	1	35	10	46
+45 mins.	45	47	0	**92**	7	**63**	39	109	13	69	**11**	**93**	1	30	12	43
Total Volume	163	186	2	351	34	219	152	405	52	249	33	334	4	147	45	196
% App. Total	46.4	53	0.6		8.4	54.1	37.5		15.6	74.6	9.9		2	75	23	
PHF	.849	.949	.500	.954	.773	.869	.809	.851	.867	.889	.750	.898	.500	.835	.804	.817

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File Name : 04_CFO_Min_Beh PM
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Groups Printed- Passenger Vehicles

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	44	45	0	89	6	21	34	61	16	50	12	78	1	35	8	44	272
04:15 PM	26	47	1	74	3	32	38	73	14	53	4	71	0	32	5	37	255
04:30 PM	35	49	0	84	9	39	38	86	8	48	7	63	2	29	10	41	274
04:45 PM	30	48	1	79	6	39	35	80	12	55	6	73	1	30	8	39	271
Total	135	189	2	326	24	131	145	300	50	206	29	285	4	126	31	161	1072
05:00 PM	40	47	0	87	11	43	29	83	14	43	8	65	2	42	14	58	293
05:15 PM	46	41	1	88	11	60	46	117	9	66	8	83	0	38	9	47	335
05:30 PM	45	45	0	90	4	51	36	91	15	68	6	89	1	34	10	45	315
05:45 PM	24	31	2	57	7	62	39	108	13	68	11	92	1	29	11	41	298
Total	155	164	3	322	33	216	150	399	51	245	33	329	4	143	44	191	1241
Grand Total	290	353	5	648	57	347	295	699	101	451	62	614	8	269	75	352	2313
Apprch %	44.8	54.5	0.8		8.2	49.6	42.2		16.4	73.5	10.1		2.3	76.4	21.3		
Total %	12.5	15.3	0.2	28	2.5	15	12.8	30.2	4.4	19.5	2.7	26.5	0.3	11.6	3.2	15.2	

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	40	**47**	0	87	**11**	43	29	83	14	43	8	65	**2**	**42**	**14**	**58**	293
05:15 PM	**46**	41	1	88	11	60	**46**	**117**	9	66	8	83	0	38	9	47	**335**
05:30 PM	45	45	0	**90**	4	51	36	91	**15**	**68**	6	89	1	34	10	45	315
05:45 PM	24	31	**2**	57	7	**62**	39	108	13	68	**11**	**92**	1	29	11	41	298
Total Volume	155	164	3	322	33	216	150	399	51	245	33	329	4	143	44	191	1241
% App. Total	48.1	50.9	0.9		8.3	54.1	37.6		15.5	74.5	10		2.1	74.9	23		
PHF	.842	.872	.375	.894	.750	.871	.815	.853	.850	.901	.750	.894	.500	.851	.786	.823	.926

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File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
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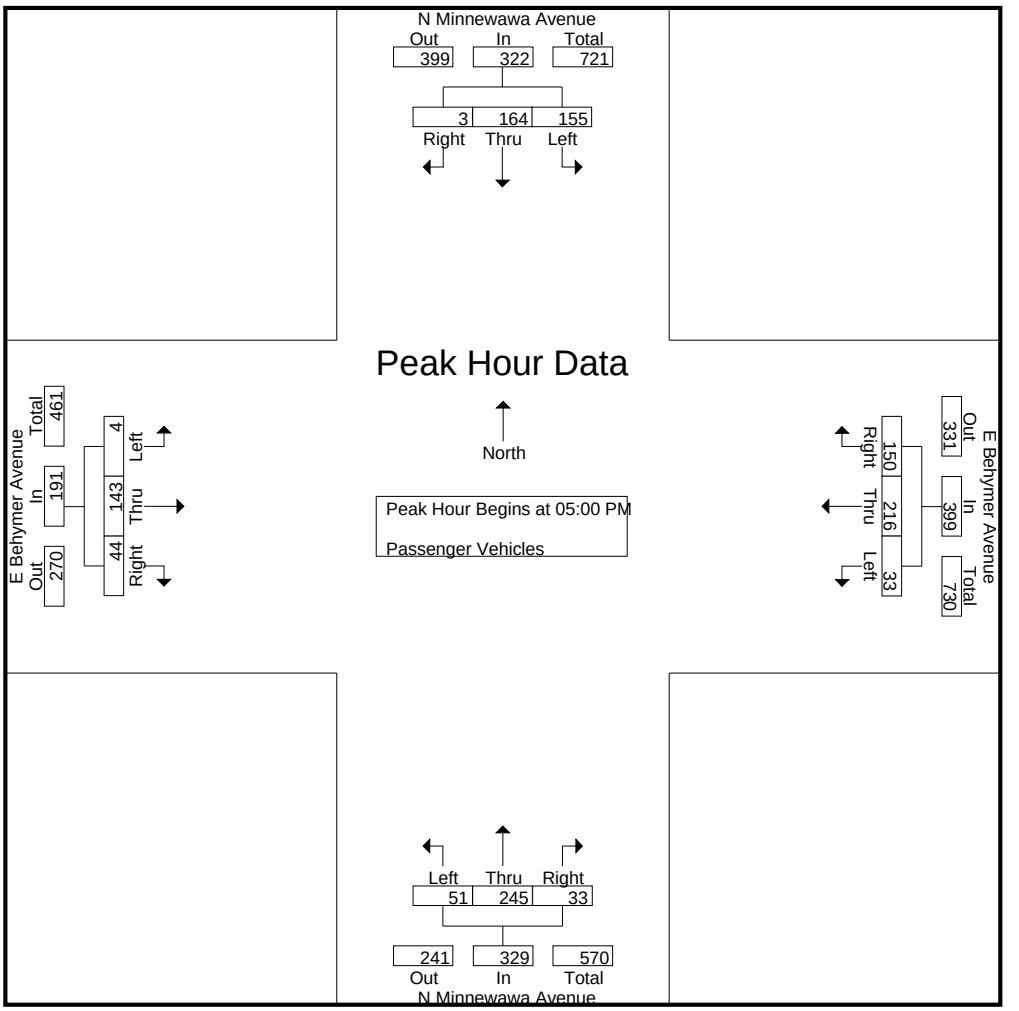

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	40	**47**	0	87	**11**	43	29	83	14	43	8	65	**2**	**42**	**14**	**58**
+15 mins.	**46**	41	1	88	11	60	**46**	**117**	9	66	8	83	0	38	9	47
+30 mins.	45	45	0	**90**	4	51	36	91	**15**	**68**	6	89	1	34	10	45
+45 mins.	24	31	**2**	57	7	**62**	39	108	13	68	**11**	**92**	1	29	11	41
Total Volume	155	164	3	322	33	216	150	399	51	245	33	329	4	143	44	191
% App. Total	48.1	50.9	0.9		8.3	54.1	37.6		15.5	74.5	10		2.1	74.9	23	
PHF	.842	.872	.375	.894	.750	.871	.815	.853	.850	.901	.750	.894	.500	.851	.786	.823

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County of Fresno
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Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
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Groups Printed- Large 2 Axle Vehicles

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	1	0	1	0	2	0	2	0	0	0	0	3
04:15 PM	2	0	0	2	1	0	0	1	0	0	0	0	0	1	0	1	4
04:30 PM	0	1	0	1	0	0	1	1	0	0	1	1	0	1	0	1	4
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2	1	0	3	1	1	1	3	0	2	1	3	0	2	0	2	11
05:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:15 PM	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	2
05:30 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
05:45 PM	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	3
Total	0	3	0	3	0	0	1	1	0	2	0	2	0	1	0	1	7
Grand Total	2	4	0	6	1	1	2	4	0	4	1	5	0	3	0	3	18
Apprch %	33.3	66.7	0		25	25	50		0	80	20		0	100	0		
Total %	11.1	22.2	0	33.3	5.6	5.6	11.1	22.2	0	22.2	5.6	27.8	0	16.7	0	16.7	

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	1
05:15 PM	0	1	0	1	0	0	**1**	**1**	0	0	0	0	0	0	0	0	2
05:30 PM	0	0	0	0	0	0	0	0	0	**1**	0	**1**	0	0	0	0	1
05:45 PM	0	1	0	1	0	0	0	0	0	1	0	1	0	**1**	0	**1**	**3**
Total Volume	0	3	0	3	0	0	1	1	0	2	0	2	0	1	0	1	7
% App. Total	0	100	0		0	0	100		0	100	0		0	100	0		
PHF	.000	.750	.000	.750	.000	.000	.250	.250	.000	.500	.000	.500	.000	.250	.000	.250	.583

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File Name : 04_CFO_Min_Beh PM
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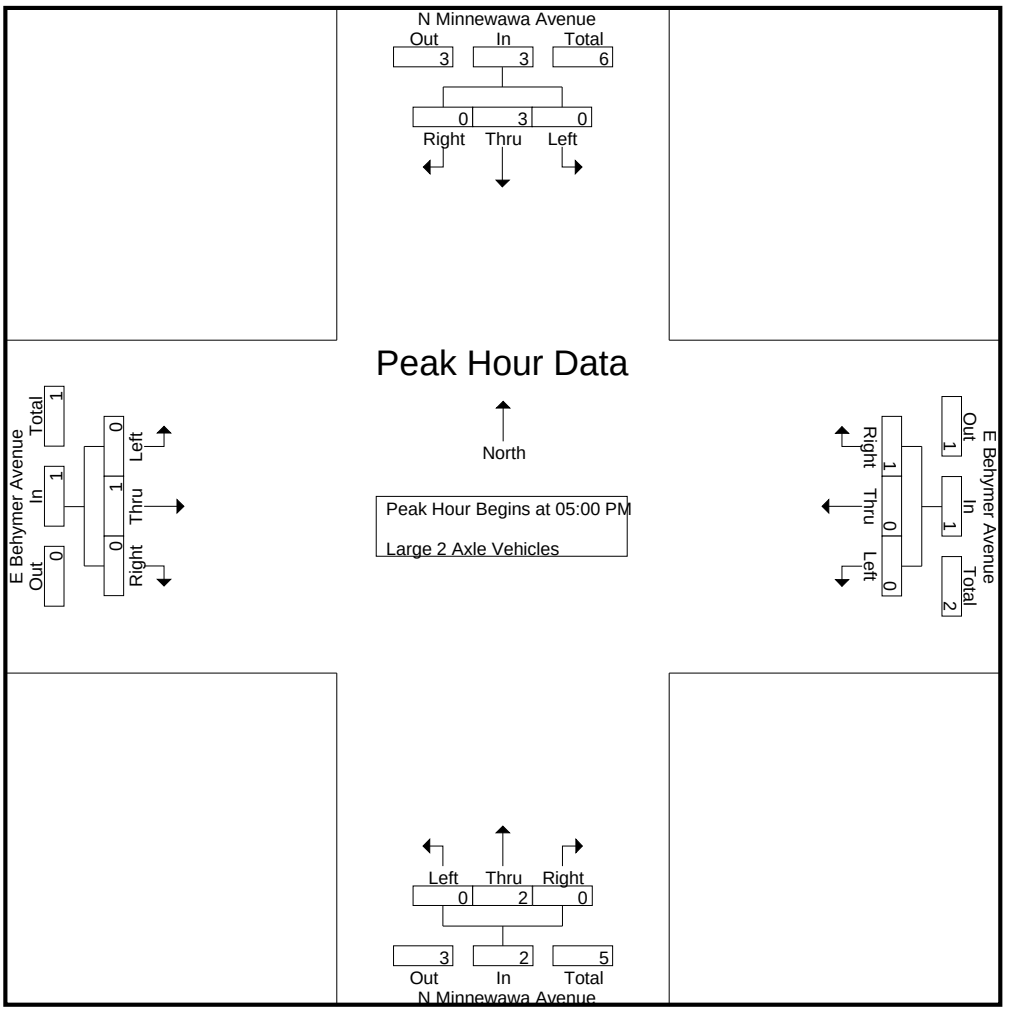

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	1	0	1	0	0	**1**	**1**	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	**1**	0	**1**	0	0	0	0
+45 mins.	0	1	0	1	0	0	0	0	0	1	0	1	0	**1**	0	**1**
Total Volume	0	3	0	3	0	0	1	1	0	2	0	2	0	1	0	1
% App. Total	0	100	0		0	0	100		0	100	0		0	100	0	
PHF	.000	.750	.000	.750	.000	.000	.250	.250	.000	.500	.000	.500	.000	.250	.000	.250

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Groups Printed- 3 Axle Vehicles

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	2	0	2	0	0	1	1	0	1	0	1	0	0	0	0	4
04:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
04:30 PM	0	2	0	2	0	1	0	1	0	0	0	0	0	0	0	0	3
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	0	6	0	6	0	1	1	2	0	1	0	1	0	1	0	1	10
05:00 PM	0	0	0	0	0	0	0	0	1	1	0	2	0	2	0	2	4
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	1	0	1	1	0	0	1	0	1	0	1	0	1	0	1	4
05:45 PM	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	1	1	0	2	1	0	0	1	1	2	0	3	0	3	0	3	9
Grand Total	1	7	0	8	1	1	1	3	1	3	0	4	0	4	0	4	19
Apprch %	12.5	87.5	0		33.3	33.3	33.3		25	75	0		0	100	0		
Total %	5.3	36.8	0	42.1	5.3	5.3	5.3	15.8	5.3	15.8	0	21.1	0	21.1	0	21.1	

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	0	0	0	**1**	**1**	0	**2**	0	**2**	0	**2**	**4**
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	**1**	0	**1**	**1**	0	0	**1**	0	1	0	1	0	1	0	1	4
05:45 PM	**1**	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	1	1	0	2	1	0	0	1	1	2	0	3	0	3	0	3	9
% App. Total	50	50	0		100	0	0		33.3	66.7	0		0	100	0		
PHF	.250	.250	.000	.500	.250	.000	.000	.250	.250	.500	.000	.375	.000	.375	.000	.375	.563

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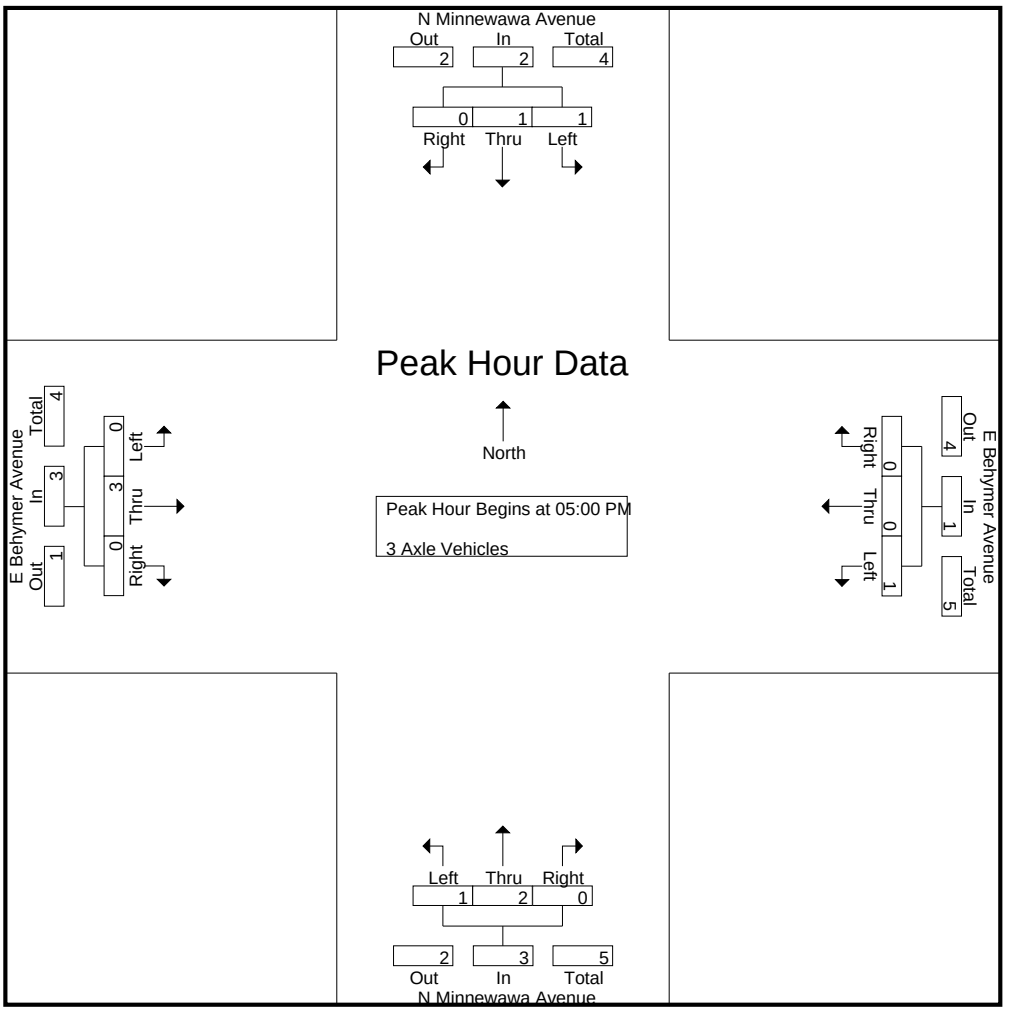
County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	**1**	**1**	0	**2**	0	**2**	0	**2**
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	**1**	0	**1**	**1**	0	0	**1**	0	1	0	1	0	1	0	1
+45 mins.	**1**	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	1	0	2	1	0	0	1	1	2	0	3	0	3	0	3
% App. Total	50	50	0		100	0	0		33.3	66.7	0		0	100	0	
PHF	.250	.250	.000	.500	.250	.000	.000	.250	.250	.500	.000	.375	.000	.375	.000	.375

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	3	0	3	0	0	0	0	1	1	0	2	0	0	0	0	5
04:15 PM	1	1	0	2	0	2	0	2	0	1	0	1	0	0	0	0	5
04:30 PM	1	0	0	1	0	0	1	1	0	2	0	2	0	0	0	0	4
04:45 PM	0	1	0	1	0	0	1	1	0	1	0	1	0	0	0	0	3
Total	2	5	0	7	0	2	2	4	1	5	0	6	0	0	0	0	17
05:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
05:15 PM	2	0	0	2	0	1	0	1	0	0	0	0	0	0	0	0	3
05:30 PM	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	2
05:45 PM	0	1	0	1	0	1	0	1	0	0	0	0	0	0	1	1	3
Total	2	2	0	4	0	3	1	4	0	0	0	0	0	0	1	1	9
Grand Total	4	7	0	11	0	5	3	8	1	5	0	6	0	0	1	1	26
Apprch %	36.4	63.6	0		0	62.5	37.5		16.7	83.3	0		0	0	100		
Total %	15.4	26.9	0	42.3	0	19.2	11.5	30.8	3.8	19.2	0	23.1	0	0	3.8	3.8	

	N Minnewawa Avenue Southbound				E Behymer Avenue Westbound				N Minnewawa Avenue Northbound				E Behymer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	**1**	0	**1**	0	0	0	0	0	0	0	0	1
05:15 PM	**2**	0	0	**2**	0	1	0	1	0	0	0	0	0	0	0	0	**3**
05:30 PM	0	**1**	0	1	0	0	**1**	1	0	0	0	0	0	0	0	0	2
05:45 PM	0	1	0	1	0	1	0	1	0	0	0	0	0	0	**1**	**1**	3
Total Volume	2	2	0	4	0	3	1	4	0	0	0	0	0	0	1	1	9
% App. Total	50	50	0		0	75	25		0	0	0		0	0	100		
PHF	.250	.500	.000	.500	.000	.750	.250	1.00	.000	.000	.000	.000	.000	.000	.250	.250	.750

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County of Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue
Weather: Clear

File Name : 04_CFO_Min_Beh PM
Site Code : 00324518
Start Date : 5/23/2024
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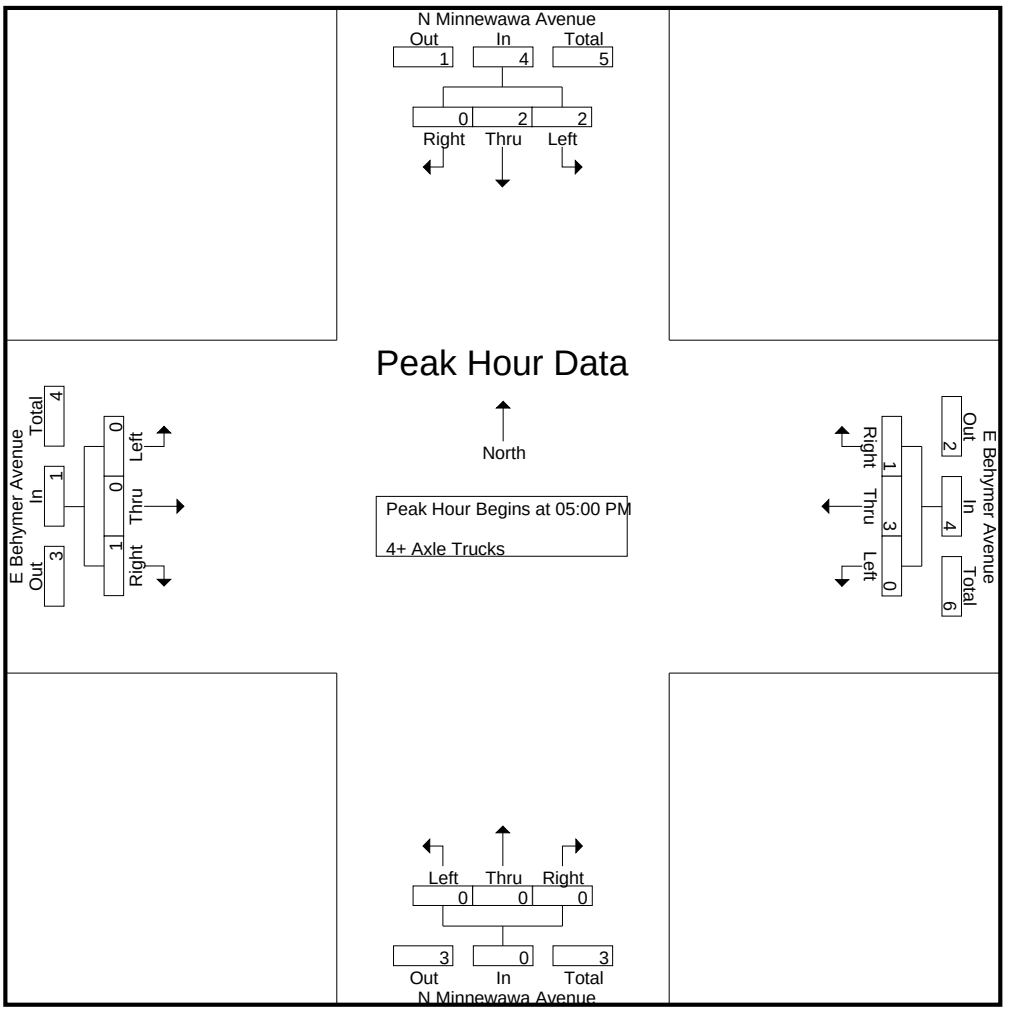

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	**1**	0	**1**	0	0	0	0	0	0	0	0
+15 mins.	**2**	0	0	**2**	0	1	0	1	0	0	0	0	0	0	0	0
+30 mins.	0	**1**	0	1	0	0	**1**	1	0	0	0	0	0	0	0	0
+45 mins.	0	1	0	1	0	1	0	1	0	0	0	0	0	0	**1**	**1**
Total Volume	2	2	0	4	0	3	1	4	0	0	0	0	0	0	1	1
% App. Total	50	50	0		0	75	25		0	0	0		0	0	100	
PHF	.250	.500	.000	.500	.000	.750	.250	1.000	.000	.000	.000	.000	.000	.000	.250	.250

Location: Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue

Date: 5/23/2024
Day: Thursday

PEDESTRIANS

	North Leg N Minnewawa Avenue	East Leg E Behymer Avenue	South Leg N Minnewawa Avenue	West Leg E Behymer Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	1	1
8:45 AM	0	7	0	0	7
TOTAL VOLUMES:	0	7	0	1	8

	North Leg N Minnewawa Avenue	East Leg E Behymer Avenue	South Leg N Minnewawa Avenue	West Leg E Behymer Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0

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Location: Fresno
N/S: N Minnewawa Avenue
E/W: E Behymer Avenue

Date: 5/23/2024
Day: Thursday

BICYCLES

	Southbound N Minnewawa Avenue			Westbound E Behymer Avenue			Northbound N Minnewawa Avenue			Eastbound E Behymer Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	2	0	0	0	0	0	0	0	0	0	0	2

	Southbound N Minnewawa Avenue			Westbound E Behymer Avenue			Northbound N Minnewawa Avenue			Eastbound E Behymer Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	0	0

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County of Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road
Weather: Clear

File Name : 05_CFO_Min_Per AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Total Volume

	N Minnewawa Avenue Southbound				Perrin Road Westbound				N Minnewawa Avenue Northbound				Perrin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	43	0	43	0	0	0	0	1	44	2	47	3	0	1	4	94
07:15 AM	0	47	1	48	0	0	0	0	1	55	1	57	3	0	1	4	109
07:30 AM	0	74	3	77	0	0	1	1	1	67	0	68	1	0	1	2	148
07:45 AM	2	108	0	110	3	0	0	3	1	68	3	72	2	0	1	3	188
Total	2	272	4	278	3	0	1	4	4	234	6	244	9	0	4	13	539
08:00 AM	0	84	1	85	1	0	0	1	0	83	3	86	3	0	1	4	176
08:15 AM	0	71	2	73	0	0	1	1	1	91	5	97	2	0	0	2	173
08:30 AM	0	61	1	62	1	0	0	1	0	67	2	69	0	0	1	1	133
08:45 AM	0	46	0	46	1	0	0	1	0	42	3	45	1	0	0	1	93
Total	0	262	4	266	3	0	1	4	1	283	13	297	6	0	2	8	575
Grand Total	2	534	8	544	6	0	2	8	5	517	19	541	15	0	6	21	1114
Apprch %	0.4	98.2	1.5		75	0	25		0.9	95.6	3.5		71.4	0	28.6		
Total %	0.2	47.9	0.7	48.8	0.5	0	0.2	0.7	0.4	46.4	1.7	48.6	1.3	0	0.5	1.9	

	N Minnewawa Avenue Southbound				Perrin Road Westbound				N Minnewawa Avenue Northbound				Perrin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	74	**3**	77	0	0	**1**	1	**1**	67	0	68	1	0	**1**	2	148
07:45 AM	**2**	**108**	0	**110**	**3**	0	0	**3**	1	68	3	72	2	0	1	3	**188**
08:00 AM	0	84	1	85	1	0	0	1	0	83	3	86	**3**	0	1	**4**	176
08:15 AM	0	71	2	73	0	0	1	1	1	**91**	**5**	**97**	2	0	0	2	173
Total Volume	2	337	6	345	4	0	2	6	3	309	11	323	8	0	3	11	685
% App. Total	0.6	97.7	1.7		66.7	0	33.3		0.9	95.7	3.4		72.7	0	27.3		
PHF	.250	.780	.500	.784	.333	.000	.500	.500	.750	.849	.550	.832	.667	.000	.750	.688	.911

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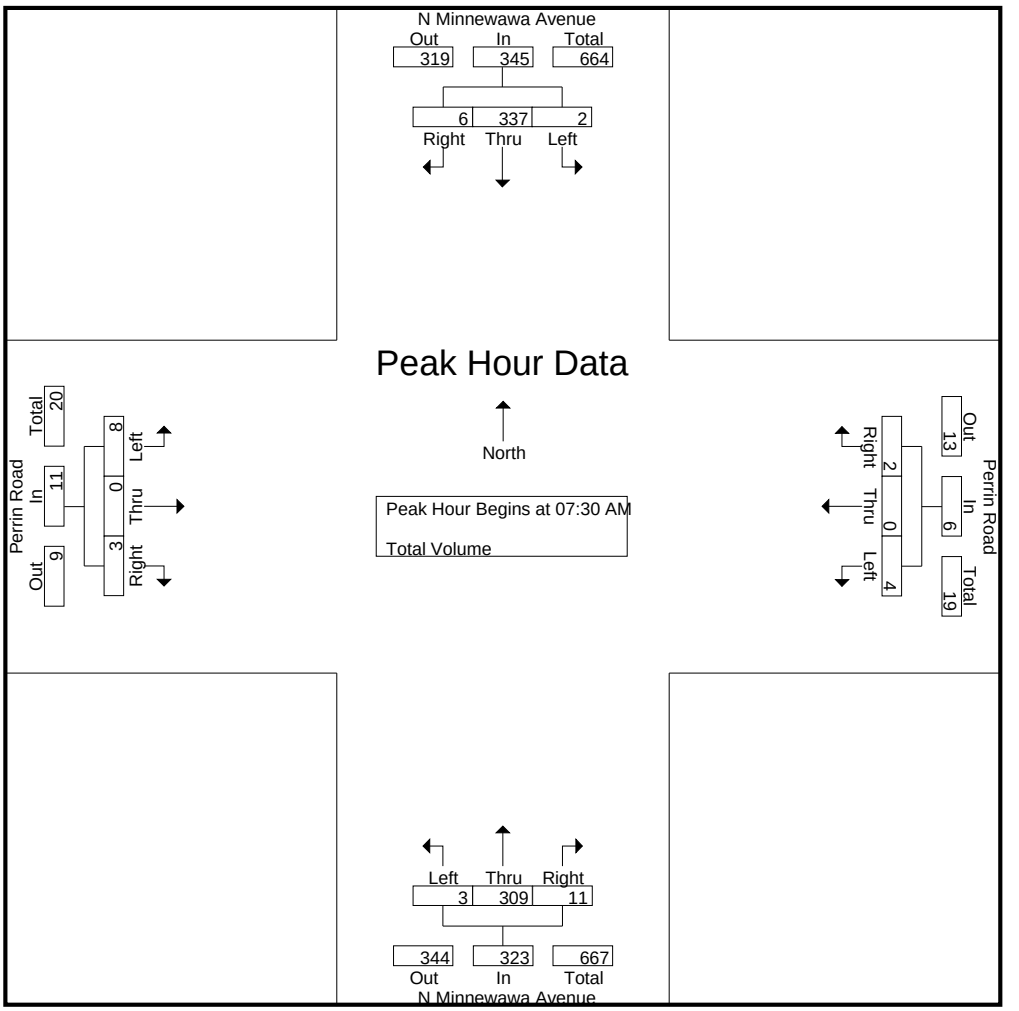
County of Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road
Weather: Clear

File Name : 05_CFO_Min_Per AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:45 AM				07:00 AM			
+0 mins.	0	74	**3**	77	0	0	**1**	1	**1**	68	3	72	**3**	0	**1**	**4**
+15 mins.	**2**	**108**	0	**110**	**3**	0	0	**3**	0	83	3	86	3	0	1	4
+30 mins.	0	84	1	85	1	0	0	1	1	**91**	**5**	**97**	1	0	1	2
+45 mins.	0	71	2	73	0	0	1	1	0	67	2	69	2	0	1	3
Total Volume	2	337	6	345	4	0	2	6	2	309	13	324	9	0	4	13
% App. Total	0.6	97.7	1.7		66.7	0	33.3		0.6	95.4	4		69.2	0	30.8	
PHF	.250	.780	.500	.784	.333	.000	.500	.500	.500	.849	.650	.835	.750	.000	1.000	.813

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County of Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road
Weather: Clear

File Name : 05_CFO_Min_Per PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Total Volume

	N Minnewawa Avenue Southbound				Perrin Road Westbound				N Minnewawa Avenue Northbound				Perrin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	2	61	0	63	1	0	0	1	0	83	1	84	0	0	1	1	149
04:15 PM	0	58	1	59	0	0	0	0	0	65	1	66	0	0	0	0	125
04:30 PM	0	66	0	66	0	0	0	0	1	69	1	71	0	0	1	1	138
04:45 PM	0	65	0	65	1	0	0	1	0	75	0	75	0	0	0	0	141
Total	2	250	1	253	2	0	0	2	1	292	3	296	0	0	2	2	553
05:00 PM	0	70	0	70	2	0	0	2	0	70	0	70	0	0	0	0	142
05:15 PM	0	67	0	67	1	0	2	3	0	83	0	83	0	0	0	0	153
05:30 PM	0	59	0	59	5	0	0	5	0	94	0	94	0	0	1	1	159
05:45 PM	0	54	1	55	1	0	0	1	0	91	2	93	0	0	1	1	150
Total	0	250	1	251	9	0	2	11	0	338	2	340	0	0	2	2	604
Grand Total	2	500	2	504	11	0	2	13	1	630	5	636	0	0	4	4	1157
Apprch %	0.4	99.2	0.4		84.6	0	15.4		0.2	99.1	0.8		0	0	100		
Total %	0.2	43.2	0.2	43.6	1	0	0.2	1.1	0.1	54.5	0.4	55	0	0	0.3	0.3	

	N Minnewawa Avenue Southbound				Perrin Road Westbound				N Minnewawa Avenue Northbound				Perrin Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	**70**	0	**70**	2	0	0	2	0	70	0	70	0	0	0	0	142
05:15 PM	0	67	0	67	1	0	**2**	3	0	83	0	83	0	0	0	0	153
05:30 PM	0	59	0	59	**5**	0	0	**5**	0	**94**	0	**94**	0	0	**1**	**1**	**159**
05:45 PM	0	54	**1**	55	1	0	0	1	0	91	**2**	93	0	0	1	1	150
Total Volume	0	250	1	251	9	0	2	11	0	338	2	340	0	0	2	2	604
% App. Total	0	99.6	0.4		81.8	0	18.2		0	99.4	0.6		0	0	100		
PHF	.000	.893	.250	.896	.450	.000	.250	.550	.000	.899	.250	.904	.000	.000	.500	.500	.950

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County of Fresno
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File Name : 05_CFO_Min_Per PM
Site Code : 00324518
Start Date : 5/23/2024
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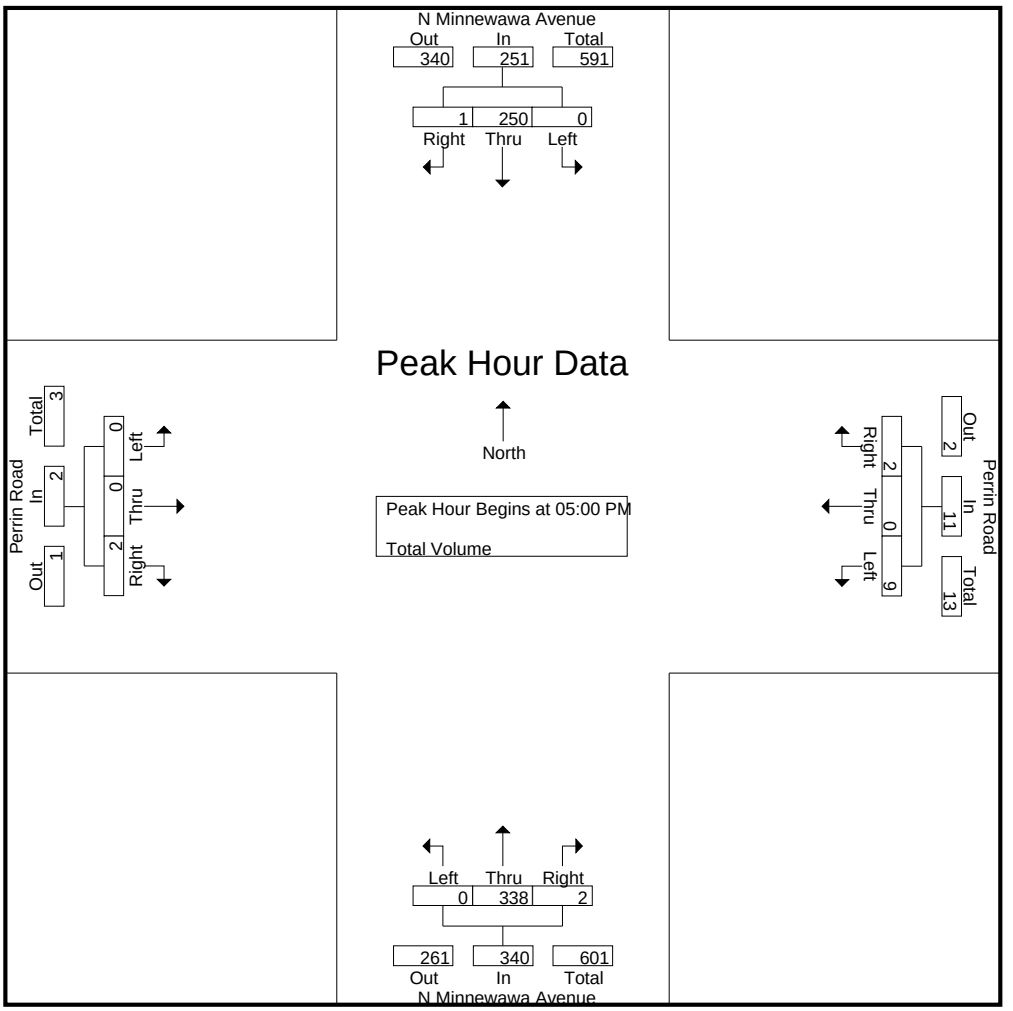

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:45 PM				05:00 PM				04:00 PM			
+0 mins.	0	66	0	66	1	0	0	1	0	70	0	70	0	0	**1**	**1**
+15 mins.	0	65	0	65	2	0	0	2	0	83	0	83	0	0	0	0
+30 mins.	0	**70**	0	**70**	1	0	**2**	3	0	**94**	0	**94**	0	0	1	1
+45 mins.	0	67	0	67	**5**	0	0	**5**	0	91	**2**	93	0	0	0	0
Total Volume	0	268	0	268	9	0	2	11	0	338	2	340	0	0	2	2
% App. Total	0	100	0		81.8	0	18.2		0	99.4	0.6		0	0	100	
PHF	.000	.957	.000	.957	.450	.000	.250	.550	.000	.899	.250	.904	.000	.000	.500	.500

Location: Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road

Date: 5/23/2024
Day: Thursday

PEDESTRIANS

	North Leg N Minnewawa Avenue	East Leg Perrin Road	South Leg N Minnewawa Avenue	West Leg Perrin Road	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	1	0	0	1
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	1	1
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	0	1	0	1	2

	North Leg N Minnewawa Avenue	East Leg Perrin Road	South Leg N Minnewawa Avenue	West Leg Perrin Road	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	1	0	0	1
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	1	0	0	1

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Location: Fresno
N/S: N Minnewawa Avenue
E/W: Perrin Road

Date: 5/23/2024
Day: Thursday

BICYCLES

	Southbound N Minnewawa Avenue			Westbound Perrin Road			Northbound N Minnewawa Avenue			Eastbound Perrin Road			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	2	0	0	0	0	0	0	0	0	0	0	2

	Southbound N Minnewawa Avenue			Westbound Perrin Road			Northbound N Minnewawa Avenue			Eastbound Perrin Road			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	0	0

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	10	25	6	41	0	40	15	55	13	26	0	39	6	48	16	70	205
07:15 AM	13	28	5	46	5	49	22	76	30	31	1	62	8	58	19	85	269
07:30 AM	5	44	8	57	1	80	33	114	27	36	3	66	3	83	44	130	367
07:45 AM	46	51	13	110	6	69	28	103	29	28	5	62	8	96	31	135	410
Total	74	148	32	254	12	238	98	348	99	121	9	229	25	285	110	420	1251
08:00 AM	22	47	6	75	3	61	36	100	31	42	4	77	11	75	23	109	361
08:15 AM	18	51	7	76	4	55	40	99	33	46	6	85	12	64	30	106	366
08:30 AM	14	49	4	67	5	52	29	86	26	32	1	59	10	58	25	93	305
08:45 AM	19	26	2	47	6	37	12	55	14	28	1	43	6	55	11	72	217
Total	73	173	19	265	18	205	117	340	104	148	12	264	39	252	89	380	1249
Grand Total	147	321	51	519	30	443	215	688	203	269	21	493	64	537	199	800	2500
Apprch %	28.3	61.8	9.8		4.4	64.4	31.2		41.2	54.6	4.3		8	67.1	24.9		
Total %	5.9	12.8	2	20.8	1.2	17.7	8.6	27.5	8.1	10.8	0.8	19.7	2.6	21.5	8	32	
Passenger Vehicles	140	316	46	502	27	432	207	666	196	256	19	471	61	517	193	771	2410
% Passenger Vehicles	95.2	98.4	90.2	96.7	90	97.5	96.3	96.8	96.6	95.2	90.5	95.5	95.3	96.3	97	96.4	96.4
Large 2 Axle Vehicles	4	2	1	7	1	5	2	8	3	3	0	6	0	12	3	15	36
% Large 2 Axle Vehicles	2.7	0.6	2	1.3	3.3	1.1	0.9	1.2	1.5	1.1	0	1.2	0	2.2	1.5	1.9	1.4
3 Axle Vehicles	1	0	2	3	2	3	5	10	0	2	1	3	2	6	2	10	26
% 3 Axle Vehicles	0.7	0	3.9	0.6	6.7	0.7	2.3	1.5	0	0.7	4.8	0.6	3.1	1.1	1	1.2	1
4+ Axle Trucks	2	3	2	7	0	3	1	4	4	8	1	13	1	2	1	4	28
% 4+ Axle Trucks	1.4	0.9	3.9	1.3	0	0.7	0.5	0.6	2	3	4.8	2.6	1.6	0.4	0.5	0.5	1.1

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	5	44	8	57	1	**80**	33	**114**	27	36	3	66	3	83	**44**	130	367
07:45 AM	**46**	**51**	**13**	**110**	**6**	69	28	103	29	28	5	62	8	**96**	31	**135**	**410**
08:00 AM	22	47	6	75	3	61	36	100	31	42	4	77	11	75	23	109	361
08:15 AM	18	51	7	76	4	55	**40**	99	**33**	**46**	**6**	**85**	**12**	64	30	106	366
Total Volume	91	193	34	318	14	265	137	416	120	152	18	290	34	318	128	480	1504
% App. Total	28.6	60.7	10.7		3.4	63.7	32.9		41.4	52.4	6.2		7.1	66.2	26.7		
PHF	.495	.946	.654	.723	.583	.828	.856	.912	.909	.826	.750	.853	.708	.828	.727	.889	.917

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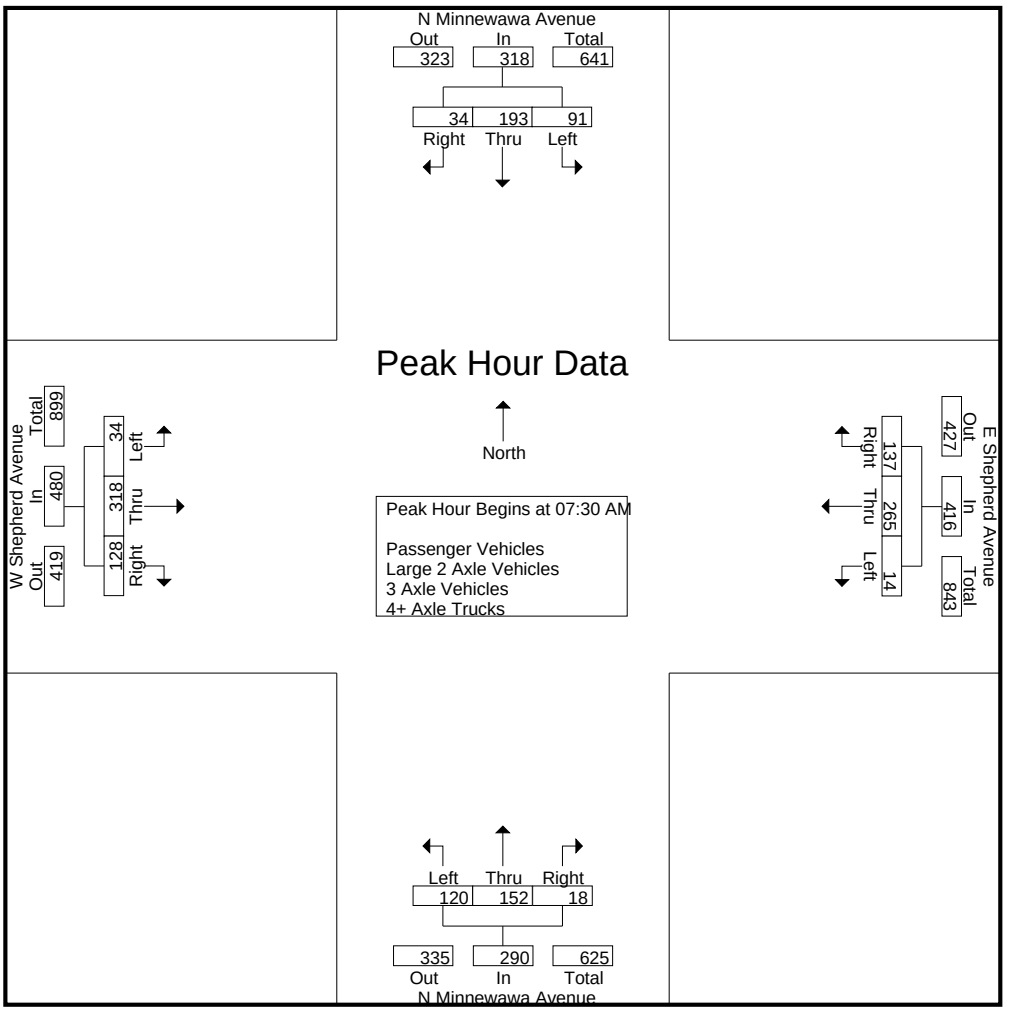
City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	**46**	**51**	**13**	**110**	1	**80**	33	**114**	27	36	3	66	3	83	**44**	130
+15 mins.	22	47	6	75	**6**	69	28	103	29	28	5	62	8	**96**	31	**135**
+30 mins.	18	51	7	76	3	61	36	100	31	42	4	77	11	75	23	109
+45 mins.	14	49	4	67	4	55	**40**	99	**33**	**46**	**6**	**85**	**12**	64	30	106
Total Volume	100	198	30	328	14	265	137	416	120	152	18	290	34	318	128	480
% App. Total	30.5	60.4	9.1		3.4	63.7	32.9		41.4	52.4	6.2		7.1	66.2	26.7	
PHF	.543	.971	.577	.745	.583	.828	.856	.912	.909	.826	.750	.853	.708	.828	.727	.889

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Passenger Vehicles

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	9	24	4	37	0	40	14	54	12	26	0	38	6	48	14	68	197
07:15 AM	13	28	4	45	4	47	22	73	27	28	1	56	8	54	18	80	254
07:30 AM	5	43	8	56	1	76	33	110	27	35	3	65	2	80	44	126	357
07:45 AM	46	51	13	110	6	69	27	102	29	27	5	61	8	93	31	132	405
Total	73	146	29	248	11	232	96	339	95	116	9	220	24	275	107	406	1213
08:00 AM	21	46	6	73	2	58	36	96	30	39	3	72	10	72	22	104	345
08:15 AM	15	49	6	70	3	54	37	94	33	44	6	83	12	63	28	103	350
08:30 AM	13	49	3	65	5	51	27	83	25	32	0	57	10	54	25	89	294
08:45 AM	18	26	2	46	6	37	11	54	13	25	1	39	5	53	11	69	208
Total	67	170	17	254	16	200	111	327	101	140	10	251	37	242	86	365	1197
Grand Total	140	316	46	502	27	432	207	666	196	256	19	471	61	517	193	771	2410
Apprch %	27.9	62.9	9.2		4.1	64.9	31.1		41.6	54.4	4		7.9	67.1	25		
Total %	5.8	13.1	1.9	20.8	1.1	17.9	8.6	27.6	8.1	10.6	0.8	19.5	2.5	21.5	8	32	

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	5	43	8	56	1	**76**	33	**110**	27	35	3	65	2	80	**44**	126	357
07:45 AM	**46**	**51**	**13**	**110**	**6**	69	27	102	29	27	5	61	8	**93**	31	**132**	**405**
08:00 AM	21	46	6	73	2	58	36	96	30	39	3	72	10	72	22	104	345
08:15 AM	15	49	6	70	3	54	**37**	94	**33**	**44**	**6**	**83**	**12**	63	28	103	350
Total Volume	87	189	33	309	12	257	133	402	119	145	17	281	32	308	125	465	1457
% App. Total	28.2	61.2	10.7		3	63.9	33.1		42.3	51.6	6		6.9	66.2	26.9		
PHF	.473	.926	.635	.702	.500	.845	.899	.914	.902	.824	.708	.846	.667	.828	.710	.881	.899

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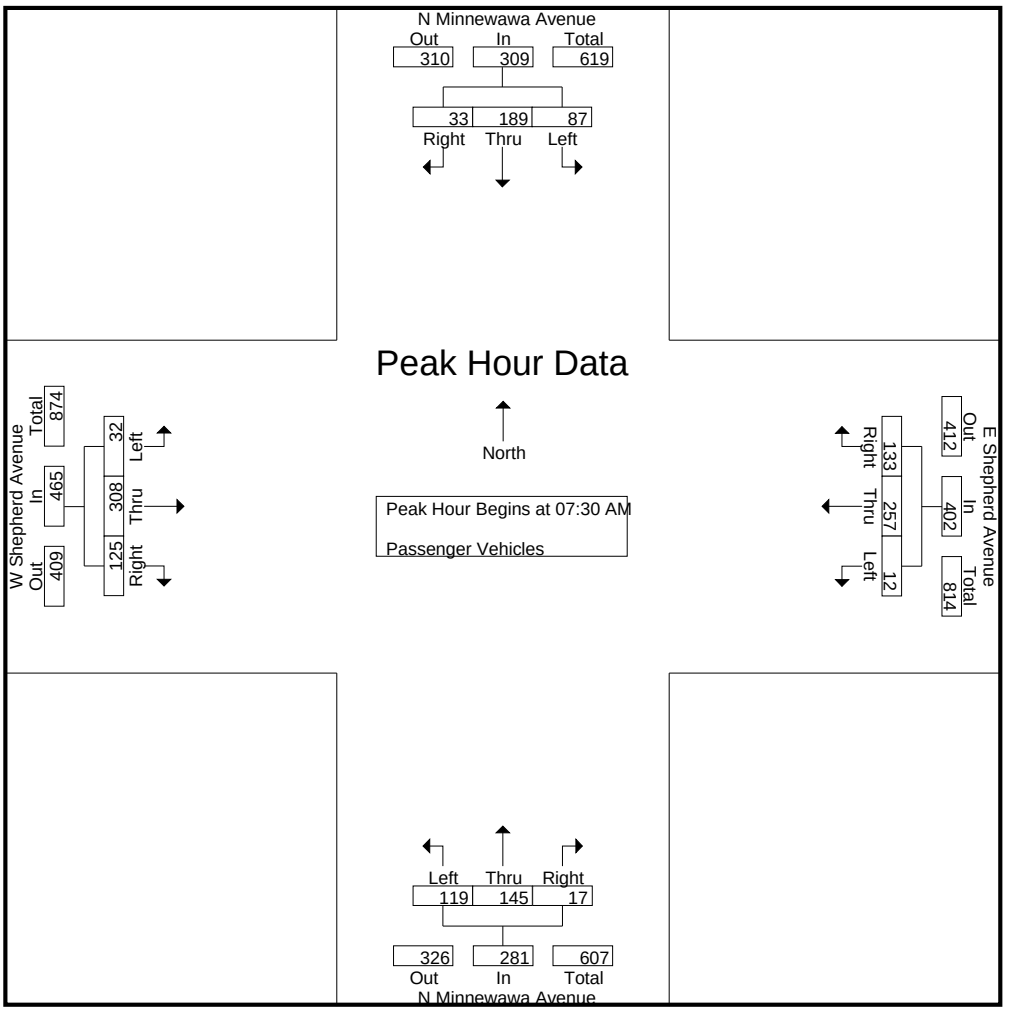
City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	5	43	8	56	1	**76**	33	**110**	27	35	3	65	2	80	**44**	126
+15 mins.	**46**	**51**	**13**	**110**	**6**	69	27	102	29	27	5	61	8	**93**	31	**132**
+30 mins.	21	46	6	73	2	58	36	96	30	39	3	72	10	72	22	104
+45 mins.	15	49	6	70	3	54	**37**	94	**33**	**44**	**6**	**83**	**12**	63	28	103
Total Volume	87	189	33	309	12	257	133	402	119	145	17	281	32	308	125	465
% App. Total	28.2	61.2	10.7		3	63.9	33.1		42.3	51.6	6		6.9	66.2	26.9	
PHF	.473	.926	.635	.702	.500	.845	.899	.914	.902	.824	.708	.846	.667	.828	.710	.881

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
07:15 AM	0	0	0	0	0	1	0	1	2	1	0	3	0	2	0	2	6
07:30 AM	0	1	0	1	0	2	0	2	0	1	0	1	0	2	0	2	6
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
Total	0	1	0	1	0	3	0	3	3	2	0	5	0	6	0	6	15
08:00 AM	1	0	0	1	1	2	0	3	0	0	0	0	0	2	1	3	7
08:15 AM	3	1	0	4	0	0	1	1	0	0	0	0	0	1	2	3	8
08:30 AM	0	0	1	1	0	0	1	1	0	0	0	0	0	2	0	2	4
08:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	2
Total	4	1	1	6	1	2	2	5	0	1	0	1	0	6	3	9	21
Grand Total	4	2	1	7	1	5	2	8	3	3	0	6	0	12	3	15	36
Apprch %	57.1	28.6	14.3		12.5	62.5	25		50	50	0		0	80	20		
Total %	11.1	5.6	2.8	19.4	2.8	13.9	5.6	22.2	8.3	8.3	0	16.7	0	33.3	8.3	41.7	

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	**1**	0	1	0	**2**	0	2	0	**1**	0	**1**	0	**2**	0	2	6
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
08:00 AM	1	0	0	1	**1**	2	0	**3**	0	0	0	0	0	2	1	**3**	7
08:15 AM	**3**	1	0	**4**	0	0	**1**	1	0	0	0	0	0	1	**2**	3	**8**
Total Volume	4	2	0	6	1	4	1	6	0	1	0	1	0	7	3	10	23
% App. Total	66.7	33.3	0		16.7	66.7	16.7		0	100	0		0	70	30		
PHF	.333	.500	.000	.375	.250	.500	.250	.500	.000	.250	.000	.250	.000	.875	.375	.833	.719

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
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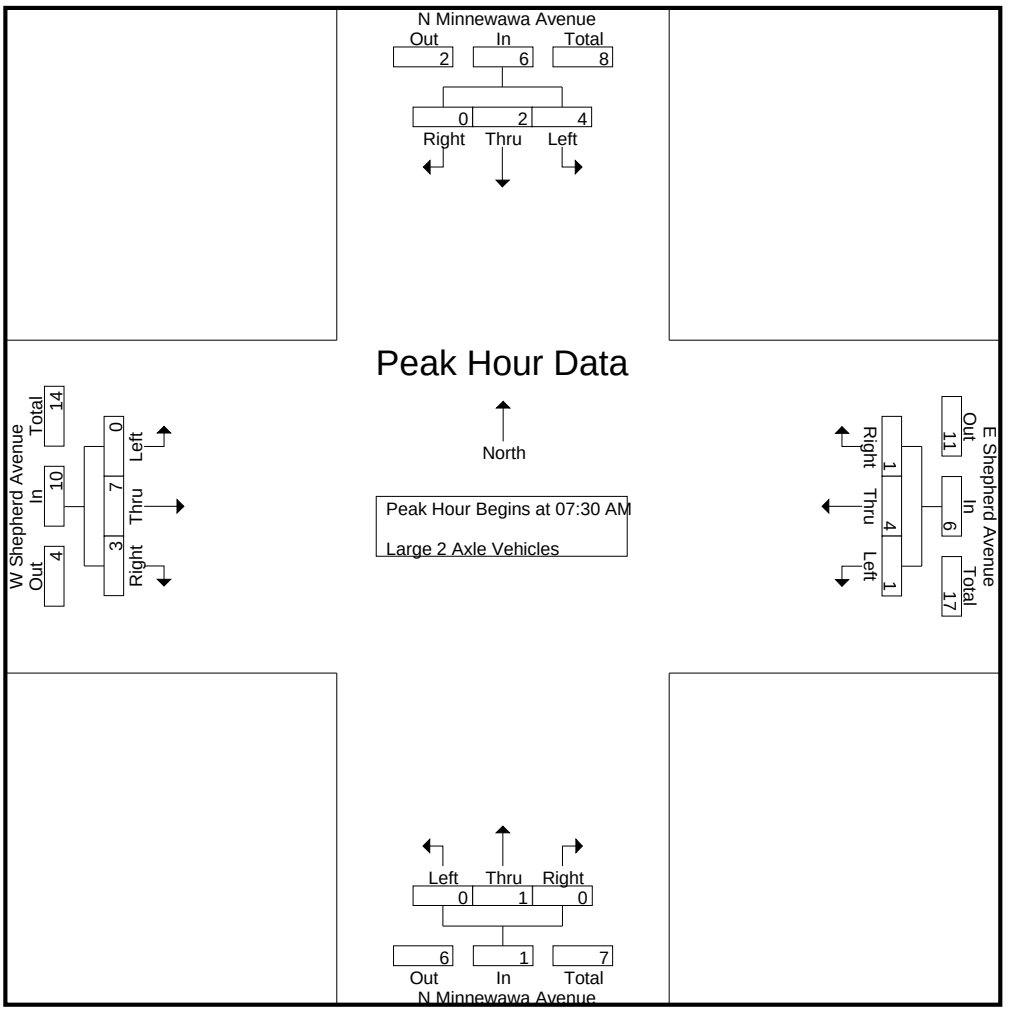

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	**1**	0	1	0	**2**	0	2	0	**1**	0	**1**	0	**2**	0	2
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
+30 mins.	1	0	0	1	**1**	2	0	**3**	0	0	0	0	0	2	1	**3**
+45 mins.	**3**	1	0	**4**	0	0	**1**	1	0	0	0	0	0	1	**2**	3
Total Volume	4	2	0	6	1	4	1	6	0	1	0	1	0	7	3	10
% App. Total	66.7	33.3	0		16.7	66.7	16.7		0	100	0		0	70	30	
PHF	.333	.500	.000	.375	.250	.500	.250	.500	.000	.250	.000	.250	.000	.875	.375	.833

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
07:15 AM	0	0	1	1	1	0	0	1	0	1	0	1	0	2	1	3	6
07:30 AM	0	0	0	0	0	2	0	2	0	0	0	0	1	1	0	2	4
07:45 AM	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	2
Total	0	0	1	1	1	2	1	4	0	1	0	1	1	4	2	7	13
08:00 AM	0	0	0	0	0	0	0	0	0	1	1	2	1	1	0	2	4
08:15 AM	0	0	1	1	1	1	2	4	0	0	0	0	0	0	0	0	5
08:30 AM	1	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	2
08:45 AM	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	2
Total	1	0	1	2	1	1	4	6	0	1	1	2	1	2	0	3	13
Grand Total	1	0	2	3	2	3	5	10	0	2	1	3	2	6	2	10	26
Apprch %	33.3	0	66.7		20	30	50		0	66.7	33.3		20	60	20		
Total %	3.8	0	7.7	11.5	7.7	11.5	19.2	38.5	0	7.7	3.8	11.5	7.7	23.1	7.7	38.5	

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	0	**2**	0	2	0	0	0	0	**1**	**1**	0	**2**	4
07:45 AM	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1	2
08:00 AM	0	0	0	0	0	0	0	0	0	**1**	**1**	**2**	1	1	0	2	4
08:15 AM	0	0	**1**	**1**	**1**	1	**2**	**4**	0	0	0	0	0	0	0	0	**5**
Total Volume	0	0	1	1	1	3	3	7	0	1	1	2	2	3	0	5	15
% App. Total	0	0	100		14.3	42.9	42.9		0	50	50		40	60	0		
PHF	.000	.000	.250	.250	.250	.375	.375	.438	.000	.250	.250	.250	.500	.750	.000	.625	.750

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
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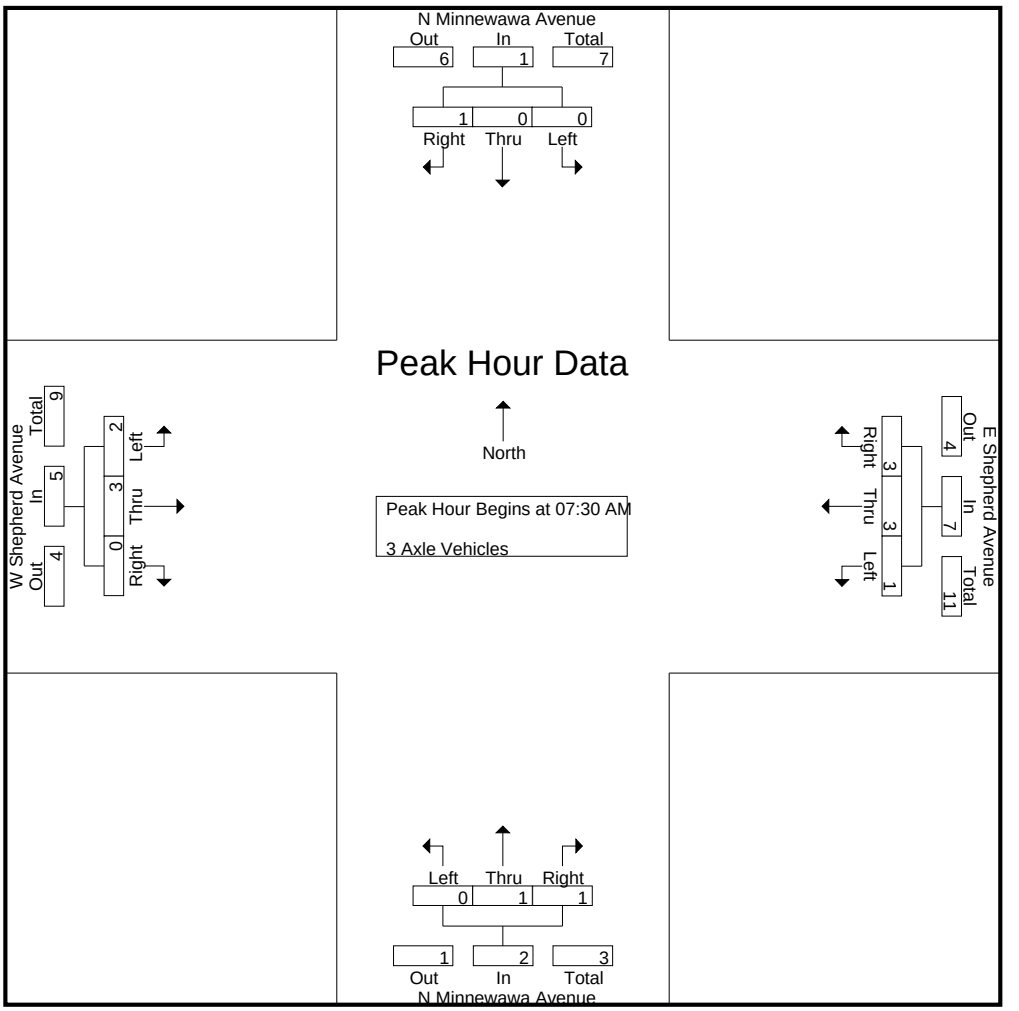

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	0	0	0	**2**	0	2	0	0	0	0	**1**	**1**	0	**2**
+15 mins.	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1
+30 mins.	0	0	0	0	0	0	0	0	0	**1**	**1**	**2**	1	1	0	2
+45 mins.	0	0	**1**	**1**	**1**	1	**2**	**4**	0	0	0	0	0	0	0	0
Total Volume	0	0	1	1	1	3	3	7	0	1	1	2	2	3	0	5
% App. Total	0	0	100		14.3	42.9	42.9		0	50	50		40	60	0	
PHF	.000	.000	.250	.250	.250	.375	.375	.438	.000	.250	.250	.250	.500	.750	.000	.625

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City of Clovis
N/S: N Minnewawa Avenue
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Weather: Clear

File Name : 06_CVS_Min_Shep AM
Site Code : 00324518
Start Date : 5/23/2024
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Groups Printed- 4+ Axle Trucks

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	1	1	2	4	0	0	1	1	0	0	0	0	0	0	1	1	6
07:15 AM	0	0	0	0	0	1	0	1	1	1	0	2	0	0	0	0	3
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
Total	1	1	2	4	0	1	1	2	1	2	0	3	0	0	1	1	10
08:00 AM	0	1	0	1	0	1	0	1	1	2	0	3	0	0	0	0	5
08:15 AM	0	1	0	1	0	0	0	0	0	2	0	2	0	0	0	0	3
08:30 AM	0	0	0	0	0	1	0	1	1	0	1	2	0	2	0	2	5
08:45 AM	1	0	0	1	0	0	0	0	1	2	0	3	1	0	0	1	5
Total	1	2	0	3	0	2	0	2	3	6	1	10	1	2	0	3	18
Grand Total	2	3	2	7	0	3	1	4	4	8	1	13	1	2	1	4	28
Apprch %	28.6	42.9	28.6		0	75	25		30.8	61.5	7.7		25	50	25		
Total %	7.1	10.7	7.1	25	0	10.7	3.6	14.3	14.3	28.6	3.6	46.4	3.6	7.1	3.6	14.3	

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
08:00 AM	0	**1**	0	**1**	0	**1**	0	**1**	**1**	**2**	0	**3**	0	0	0	0	**5**
08:15 AM	0	1	0	1	0	0	0	0	0	2	0	2	0	0	0	0	3
Total Volume	0	2	0	2	0	1	0	1	1	5	0	6	0	0	0	0	9
% App. Total	0	100	0		0	100	0		16.7	83.3	0		0	0	0		
PHF	.000	.500	.000	.500	.000	.250	.000	.250	.250	.625	.000	.500	.000	.000	.000	.000	.450

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File Name : 06_CVS_Min_Shep AM
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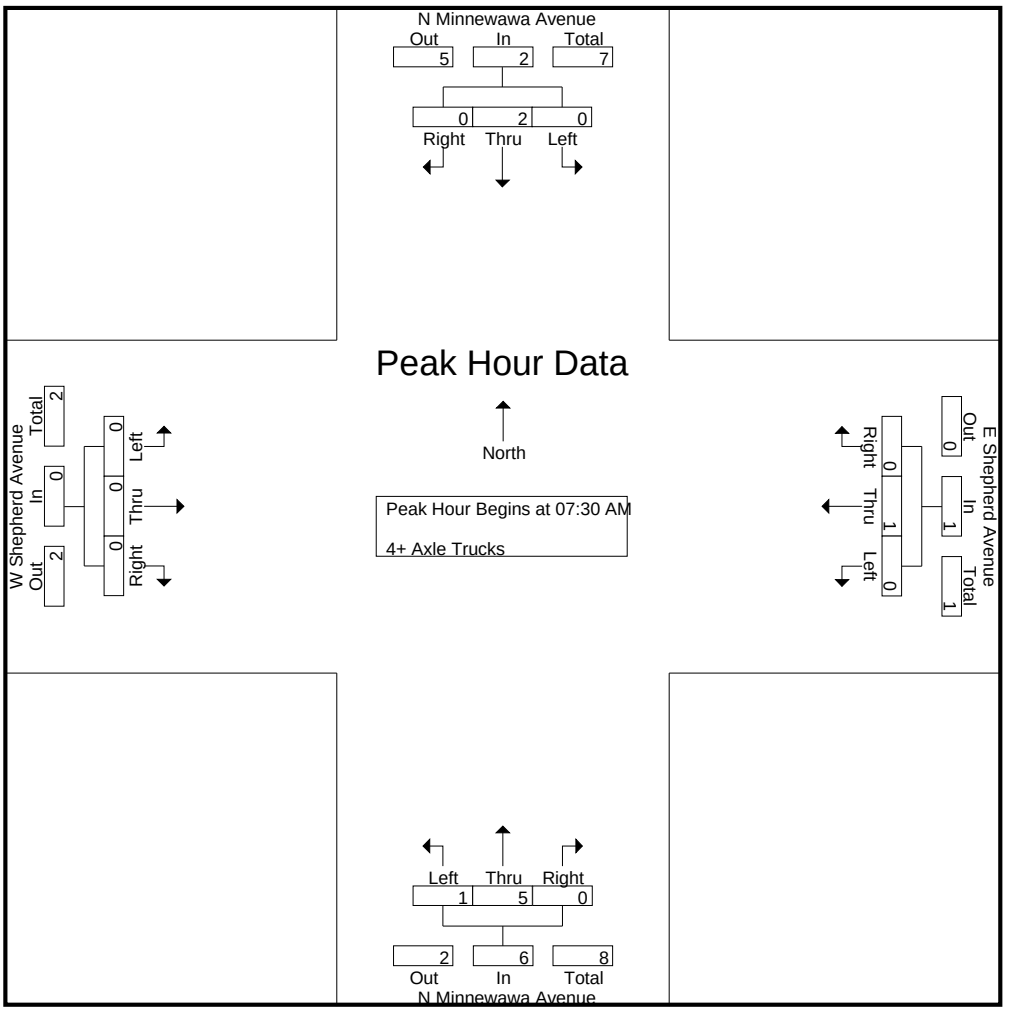

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
+30 mins.	0	**1**	0	**1**	0	**1**	0	**1**	**1**	**2**	0	**3**	0	0	0	0
+45 mins.	0	1	0	1	0	0	0	0	0	2	0	2	0	0	0	0
Total Volume	0	2	0	2	0	1	0	1	1	5	0	6	0	0	0	0
% App. Total	0	100	0		0	100	0		16.7	83.3	0		0	0	0	
PHF	.000	.500	.000	.500	.000	.250	.000	.250	.250	.625	.000	.500	.000	.000	.000	.000

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City of Clovis
N/S: N Minnewawa Avenue
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File Name : 06_CVS_Min_Shep PM
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	16	38	5	59	1	61	31	93	20	43	4	67	9	72	22	103	322
04:15 PM	14	44	6	64	0	50	25	75	29	38	5	72	7	85	23	115	326
04:30 PM	17	34	6	57	2	63	28	93	34	34	5	73	9	83	31	123	346
04:45 PM	18	45	8	71	3	56	21	80	33	45	5	83	14	53	19	86	320
Total	65	161	25	251	6	230	105	341	116	160	19	295	39	293	95	427	1314
05:00 PM	13	45	9	67	1	63	19	83	33	35	7	75	11	70	18	99	324
05:15 PM	10	46	13	69	2	67	22	91	35	51	6	92	12	72	31	115	367
05:30 PM	10	43	6	59	1	57	22	80	34	60	7	101	11	79	33	123	363
05:45 PM	15	35	8	58	2	53	25	80	27	59	4	90	10	74	29	113	341
Total	48	169	36	253	6	240	88	334	129	205	24	358	44	295	111	450	1395
Grand Total	113	330	61	504	12	470	193	675	245	365	43	653	83	588	206	877	2709
Apprch %	22.4	65.5	12.1		1.8	69.6	28.6		37.5	55.9	6.6		9.5	67	23.5		
Total %	4.2	12.2	2.3	18.6	0.4	17.3	7.1	24.9	9	13.5	1.6	24.1	3.1	21.7	7.6	32.4	
Passenger Vehicles	108	317	59	484	11	469	189	669	240	355	41	636	83	581	200	864	2653
% Passenger Vehicles	95.6	96.1	96.7	96	91.7	99.8	97.9	99.1	98	97.3	95.3	97.4	100	98.8	97.1	98.5	97.9
Large 2 Axle Vehicles	0	2	1	3	0	0	2	2	1	4	0	5	0	5	2	7	17
% Large 2 Axle Vehicles	0	0.6	1.6	0.6	0	0	1	0.3	0.4	1.1	0	0.8	0	0.9	1	0.8	0.6
3 Axle Vehicles	2	5	0	7	1	0	2	3	3	2	1	6	0	2	2	4	20
% 3 Axle Vehicles	1.8	1.5	0	1.4	8.3	0	1	0.4	1.2	0.5	2.3	0.9	0	0.3	1	0.5	0.7
4+ Axle Trucks	3	6	1	10	0	1	0	1	1	4	1	6	0	0	2	2	19
% 4+ Axle Trucks	2.7	1.8	1.6	2	0	0.2	0	0.1	0.4	1.1	2.3	0.9	0	0	1	0.2	0.7

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	13	45	9	67	1	63	19	83	33	35	**7**	75	11	70	18	99	324
05:15 PM	10	**46**	**13**	**69**	**2**	**67**	22	**91**	**35**	51	6	92	**12**	72	31	115	**367**
05:30 PM	10	43	6	59	1	57	22	80	34	**60**	7	**101**	11	**79**	**33**	**123**	363
05:45 PM	**15**	35	8	58	2	53	**25**	80	27	59	4	90	10	74	29	113	341
Total Volume	48	169	36	253	6	240	88	334	129	205	24	358	44	295	111	450	1395
% App. Total	19	66.8	14.2		1.8	71.9	26.3		36	57.3	6.7		9.8	65.6	24.7		
PHF	.800	.918	.692	.917	.750	.896	.880	.918	.921	.854	.857	.886	.917	.934	.841	.915	.950

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File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
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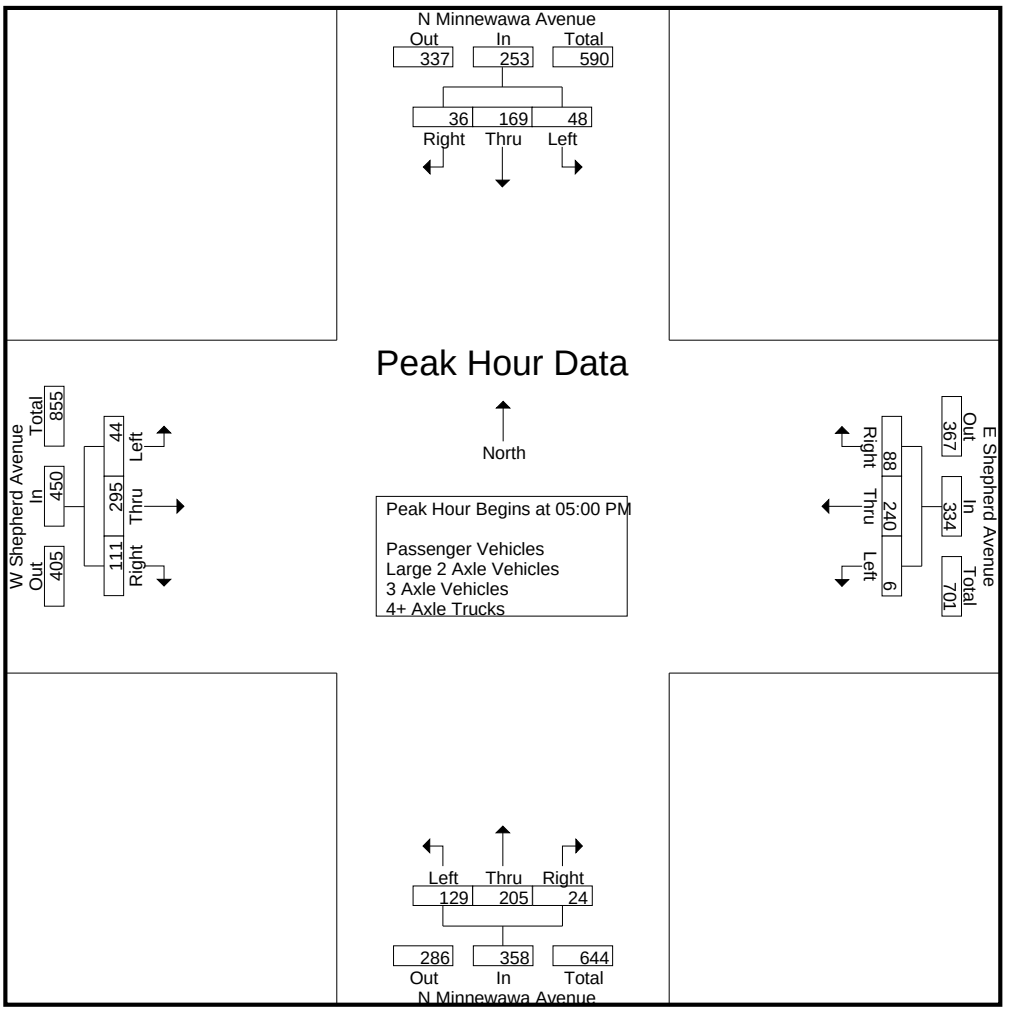

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:30 PM				05:00 PM				05:00 PM			
+0 mins.	**18**	45	8	**71**	2	63	**28**	**93**	33	35	**7**	75	11	70	18	99
+15 mins.	13	45	9	67	**3**	56	21	80	**35**	51	6	92	**12**	72	31	115
+30 mins.	10	**46**	**13**	69	1	63	19	83	34	**60**	7	**101**	11	**79**	**33**	**123**
+45 mins.	10	43	6	59	2	**67**	22	91	27	59	4	90	10	74	29	113
Total Volume	51	179	36	266	8	249	90	347	129	205	24	358	44	295	111	450
% App. Total	19.2	67.3	13.5		2.3	71.8	25.9		36	57.3	6.7		9.8	65.6	24.7	
PHF	.708	.973	.692	.937	.667	.929	.804	.933	.921	.854	.857	.886	.917	.934	.841	.915

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City of Clovis
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Weather: Clear

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Page No : 1

Groups Printed- Passenger Vehicles

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	15	35	5	55	1	61	29	91	20	40	4	64	9	69	22	100	310
04:15 PM	14	40	4	58	0	50	25	75	29	37	5	71	7	83	21	111	315
04:30 PM	16	34	6	56	2	63	27	92	33	33	4	70	9	82	28	119	337
04:45 PM	17	44	8	69	2	56	20	78	32	44	5	81	14	52	19	85	313
Total	62	153	23	238	5	230	101	336	114	154	18	286	39	286	90	415	1275
05:00 PM	13	44	9	66	1	63	19	83	32	34	7	73	11	70	18	99	321
05:15 PM	10	45	13	68	2	66	22	90	35	51	6	92	12	72	31	115	365
05:30 PM	8	42	6	56	1	57	22	80	32	57	6	95	11	79	32	122	353
05:45 PM	15	33	8	56	2	53	25	80	27	59	4	90	10	74	29	113	339
Total	46	164	36	246	6	239	88	333	126	201	23	350	44	295	110	449	1378
Grand Total	108	317	59	484	11	469	189	669	240	355	41	636	83	581	200	864	2653
Apprch %	22.3	65.5	12.2		1.6	70.1	28.3		37.7	55.8	6.4		9.6	67.2	23.1		
Total %	4.1	11.9	2.2	18.2	0.4	17.7	7.1	25.2	9	13.4	1.5	24	3.1	21.9	7.5	32.6	

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	13	44	9	66	1	63	19	83	32	34	**7**	73	11	70	18	99	321
05:15 PM	10	**45**	**13**	**68**	**2**	**66**	22	**90**	**35**	51	6	92	**12**	72	31	115	**365**
05:30 PM	8	42	6	56	1	57	22	80	32	57	6	**95**	11	**79**	**32**	**122**	353
05:45 PM	**15**	33	8	56	2	53	**25**	80	27	**59**	4	90	10	74	29	113	339
Total Volume	46	164	36	246	6	239	88	333	126	201	23	350	44	295	110	449	1378
% App. Total	18.7	66.7	14.6		1.8	71.8	26.4		36	57.4	6.6		9.8	65.7	24.5		
PHF	.767	.911	.692	.904	.750	.905	.880	.925	.900	.852	.821	.921	.917	.934	.859	.920	.944

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File Name : 06_CVS_Min_Shep PM
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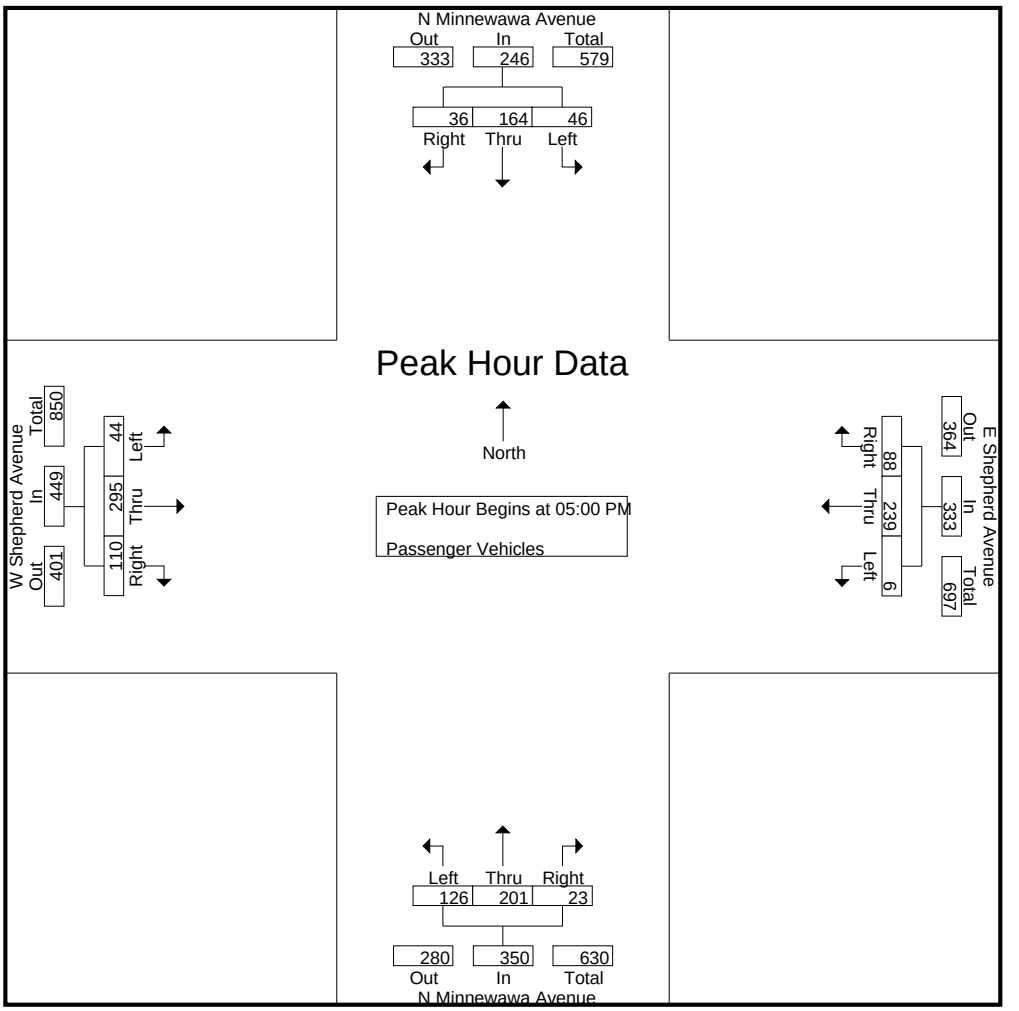

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	13	44	9	66	1	63	19	83	32	34	**7**	73	11	70	18	99
+15 mins.	10	**45**	**13**	**68**	**2**	**66**	22	**90**	**35**	51	6	92	**12**	72	31	115
+30 mins.	8	42	6	56	1	57	22	80	32	57	6	**95**	11	**79**	**32**	**122**
+45 mins.	**15**	33	8	56	2	53	**25**	80	27	**59**	4	90	10	74	29	113
Total Volume	46	164	36	246	6	239	88	333	126	201	23	350	44	295	110	449
% App. Total	18.7	66.7	14.6		1.8	71.8	26.4		36	57.4	6.6		9.8	65.7	24.5	
PHF	.767	.911	.692	.904	.750	.905	.880	.925	.900	.852	.821	.921	.917	.934	.859	.920

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Groups Printed- Large 2 Axle Vehicles

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	1	1	0	1	0	1	0	2	0	2	4
04:15 PM	0	0	1	1	0	0	0	0	0	0	0	0	0	2	1	3	4
04:30 PM	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	0	0	1	1	0	0	2	2	0	1	0	1	0	5	1	6	10
05:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0	0	1	3	0	4	0	0	1	1	5
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	0	2	0	0	0	0	1	3	0	4	0	0	1	1	7
Grand Total	0	2	1	3	0	0	2	2	1	4	0	5	0	5	2	7	17
Apprch %	0	66.7	33.3		0	0	100		20	80	0		0	71.4	28.6		
Total %	0	11.8	5.9	17.6	0	0	11.8	11.8	5.9	23.5	0	29.4	0	29.4	11.8	41.2	

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	1
05:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0	0	**1**	**3**	0	**4**	0	0	**1**	**1**	**5**
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	2	0	2	0	0	0	0	1	3	0	4	0	0	1	1	7
% App. Total	0	100	0		0	0	0		25	75	0		0	0	100		
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.250	.250	.000	.250	.000	.000	.250	.250	.350

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Start Date : 5/23/2024
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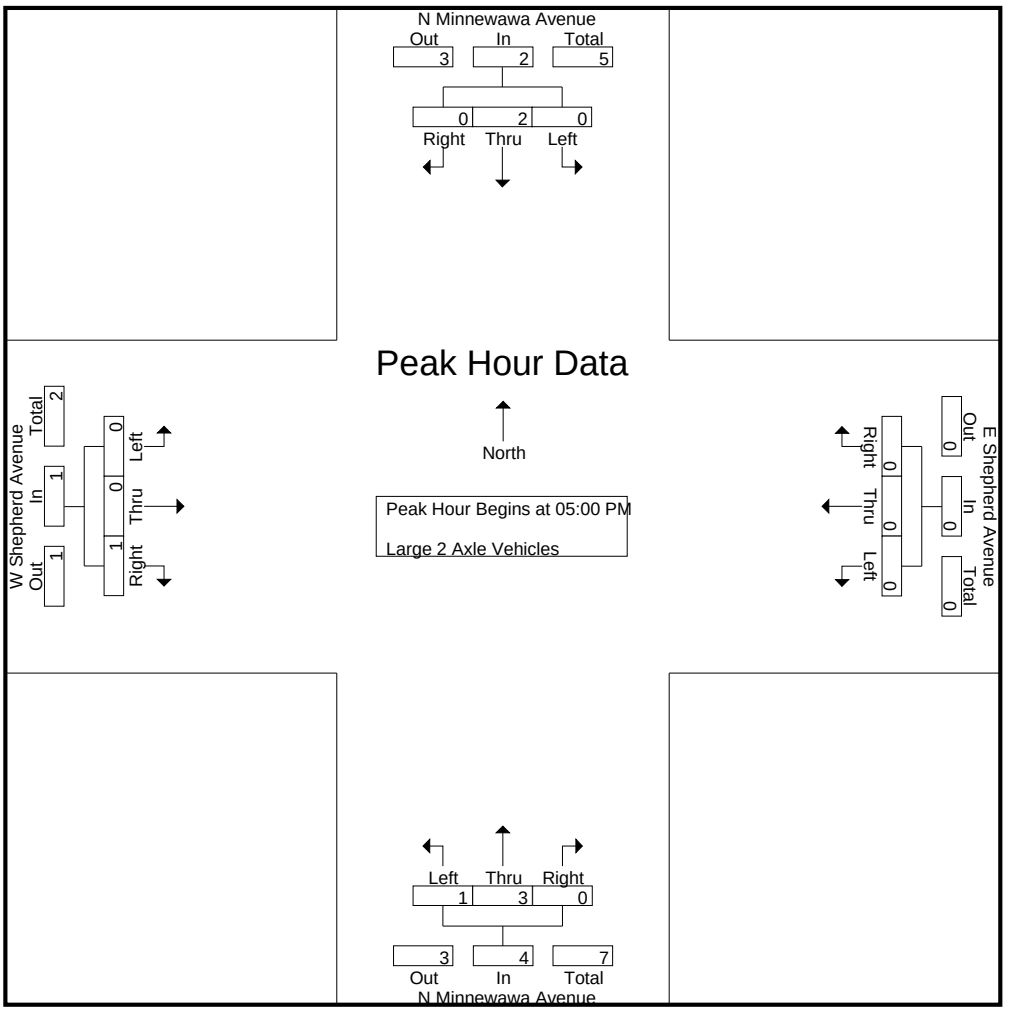

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	**1**	**3**	0	**4**	0	0	**1**	**1**
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	2	0	2	0	0	0	0	1	3	0	4	0	0	1	1
% App. Total	0	100	0		0	0	0		25	75	0		0	0	100	
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.250	.250	.000	.250	.000	.000	.250	.250

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 3 Axle Vehicles

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	2	0	2	0	0	1	1	0	1	0	1	0	1	0	1	5
04:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
04:30 PM	1	0	0	1	0	0	0	0	1	0	0	1	0	1	2	3	5
04:45 PM	0	0	0	0	1	0	1	2	0	0	0	0	0	0	0	0	2
Total	1	4	0	5	1	0	2	3	1	1	0	2	0	2	2	4	14
05:00 PM	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	2
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	1	1	0	2	0	0	0	0	1	0	1	2	0	0	0	0	4
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	1	0	2	0	0	0	0	2	1	1	4	0	0	0	0	6
Grand Total	2	5	0	7	1	0	2	3	3	2	1	6	0	2	2	4	20
Apprch %	28.6	71.4	0		33.3	0	66.7		50	33.3	16.7		0	50	50		
Total %	10	25	0	35	5	0	10	15	15	10	5	30	0	10	10	20	

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	0	0	0	**1**	**1**	0	**2**	0	0	0	0	2
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	**1**	**1**	0	**2**	0	0	0	0	1	0	**1**	2	0	0	0	0	**4**
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	1	0	2	0	0	0	0	2	1	1	4	0	0	0	0	6
% App. Total	50	50	0		0	0	0		50	25	25		0	0	0		
PHF	.250	.250	.000	.250	.000	.000	.000	.000	.500	.250	.250	.500	.000	.000	.000	.000	.375

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City of Clovis
N/S: N Minnewawa Avenue
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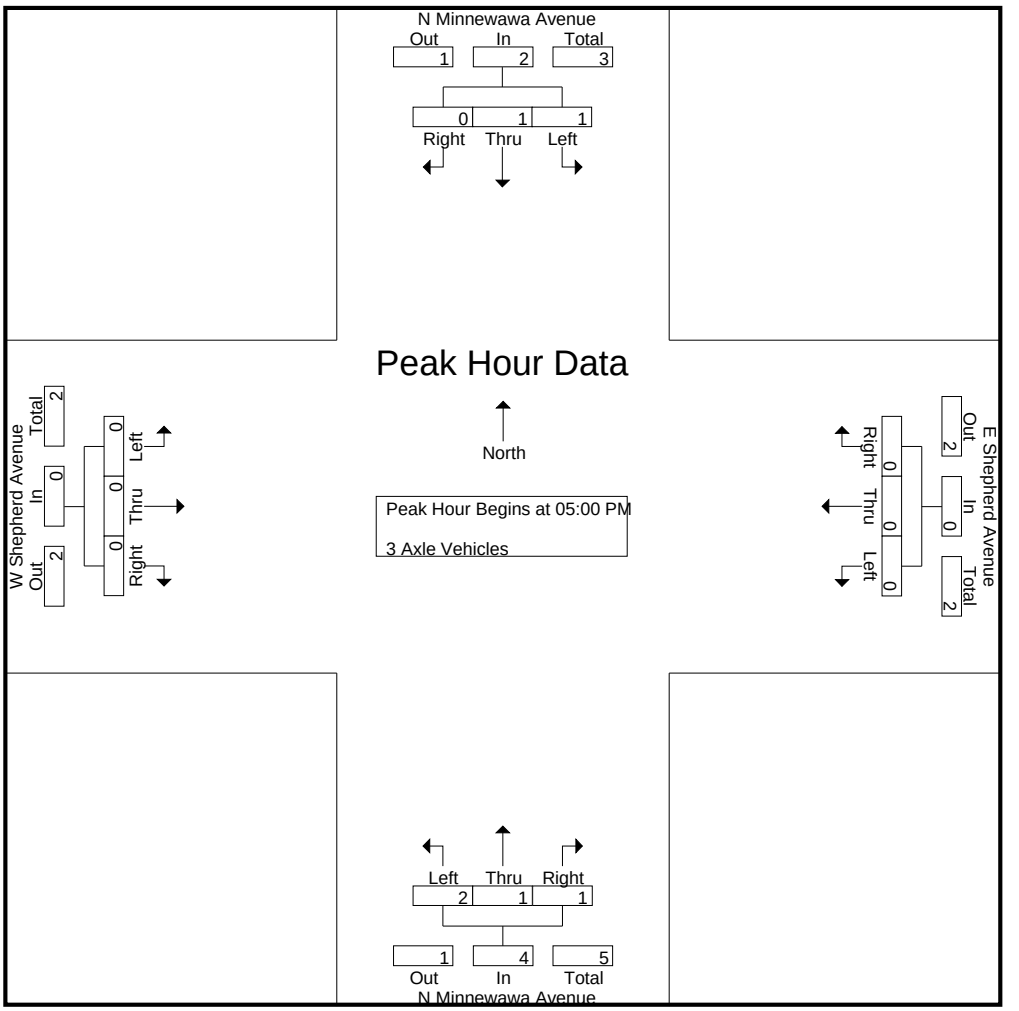
File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	**1**	**1**	0	**2**	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	**1**	**1**	0	**2**	0	0	0	0	1	0	**1**	2	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	1	0	2	0	0	0	0	2	1	1	4	0	0	0	0
% App. Total	50	50	0		0	0	0		50	25	25		0	0	0	
PHF	.250	.250	.000	.250	.000	.000	.000	.000	.500	.250	.250	.500	.000	.000	.000	.000

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City of Clovis
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue
Weather: Clear

File Name : 06_CVS_Min_Shep PM
Site Code : 00324518
Start Date : 5/23/2024
Page No : 1

Groups Printed- 4+ Axle Trucks

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	1	1	0	2	0	0	0	0	0	1	0	1	0	0	0	0	3
04:15 PM	0	2	1	3	0	0	0	0	0	1	0	1	0	0	1	1	5
04:30 PM	0	0	0	0	0	0	0	0	0	1	1	2	0	0	1	1	3
04:45 PM	1	1	0	2	0	0	0	0	1	1	0	2	0	0	0	0	4
Total	2	4	1	7	0	0	0	0	1	4	1	6	0	0	2	2	15
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
05:30 PM	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:45 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	1	2	0	3	0	1	0	1	0	0	0	0	0	0	0	0	4
Grand Total	3	6	1	10	0	1	0	1	1	4	1	6	0	0	2	2	19
Apprch %	30	60	10		0	100	0		16.7	66.7	16.7		0	0	100		
Total %	15.8	31.6	5.3	52.6	0	5.3	0	5.3	5.3	21.1	5.3	31.6	0	0	10.5	10.5	

	N Minnewawa Avenue Southbound				E Shepherd Avenue Westbound				N Minnewawa Avenue Northbound				W Shepherd Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	**1**	0	**1**	0	0	0	0	0	0	0	0	1
05:30 PM	**1**	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:45 PM	0	**2**	0	**2**	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Total Volume	1	2	0	3	0	1	0	1	0	0	0	0	0	0	0	0	4
% App. Total	33.3	66.7	0		0	100	0		0	0	0		0	0	0		
PHF	.250	.250	.000	.375	.000	.250	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000	.500

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City of Clovis
N/S: N Minnewawa Avenue
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File Name : 06_CVS_Min_Shep PM
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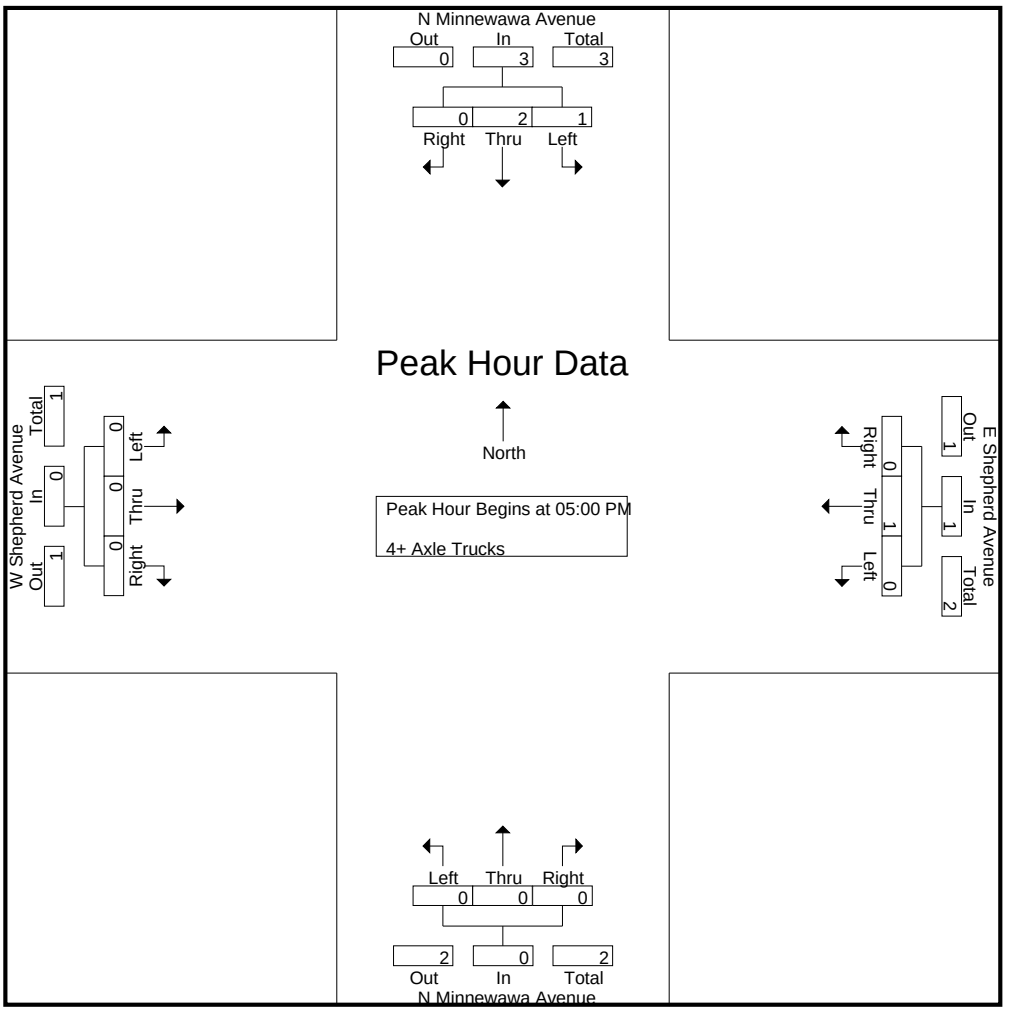

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	**1**	0	**1**	0	0	0	0	0	0	0	0
+30 mins.	**1**	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	**2**	0	**2**	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	2	0	3	0	1	0	1	0	0	0	0	0	0	0	0
% App. Total	33.3	66.7	0		0	100	0		0	0	0		0	0	0	
PHF	.250	.250	.000	.375	.000	.250	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000

Location: Fresno
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue

Date: 5/23/2024
Day: Thursday

PEDESTRIANS

	North Leg N Minnewawa Avenue	East Leg Shepherd Avenue	South Leg N Minnewawa Avenue	West Leg Shepherd Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	1	0	1
7:45 AM	0	0	1	0	1
8:00 AM	0	0	0	0	0
8:15 AM	1	0	1	0	2
8:30 AM	0	0	0	0	0
8:45 AM	0	0	1	0	1
TOTAL VOLUMES:	1	0	4	0	5

	North Leg N Minnewawa Avenue	East Leg Shepherd Avenue	South Leg N Minnewawa Avenue	West Leg Shepherd Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	2	0	2
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	0	2	0	2

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951-268-6268

Location: Fresno
N/S: N Minnewawa Avenue
E/W: Shepherd Avenue

Date: 5/23/2024
Day: Thursday

BICYCLES

	Southbound N Minnewawa Avenue			Westbound Shepherd Avenue			Northbound N Minnewawa Avenue			Eastbound Shepherd Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	1	0	0	0	0	0	1	0	2
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	1	1
8:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	2
TOTAL VOLUMES:	0	1	0	0	1	0	0	0	1	0	1	2	6

	Southbound N Minnewawa Avenue			Westbound Shepherd Avenue			Northbound N Minnewawa Avenue			Eastbound Shepherd Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	0	0

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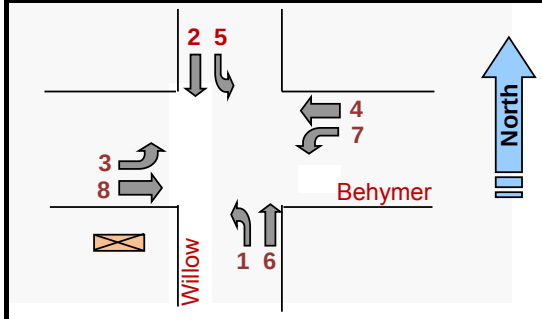
Movement	NL	ST	EL	WT	SL	NT	WL	ET		
Times [1.1.1]	1	2	3	4	5	6	7	8	9	10
Min Green	8	8	8	8	8	8	8	8		0
Gap, Ext	2	5.8	2	5.1	2	5.8	2	3.5		0
Max 1	20	45	20	30	20	45	20	30		0
Max 2	12	35	12	20	12	35	12	20		0
Yel Clearance	4.3	4.7	5.2	5.5	4.3	4.7	3.6	5.5		0
Red Clearance	1	1	1	1	1	1	1	1		0
Walk	0	5	0	5		5		5		0
Ped Clearance	0	32	0	38		30		36		0
Red Revert	2	2	2	2	2	2	2	2		0
Add Initial	0		0			0		0		0
Max Initial	0		0			0		0		0
Time B4 Reduct	0	8	0	8		8		8		0
Cars B4 Reduct	0		0			0		0		0
Time To Reduce	0	25	0	15		25		15		0
Reduce By	0		0			0		0		0
Min Gap	2	2	2	2	2	2	2	2		0
DyMaxLim	0		0			0		0		0
Max Step	0		0			0		0		0
Options [1.1.2]	1	2	3	4	5	6	7	8	9	10
Enable	X	X	X	X	X	X	X	X		
Min Recall										
Max Recall										
Ped Recall										
Soft Recall		X				X				
Lock Calls										
Auto Flash Entry										
Auto Flash Exit										
Dual Entry		X		X		X		X		
Enable Simul Gap										
Gaurantee Passage										
Rest In Walk										
Conditonal Service										
Non-Actuated 1										
Non-Actuated 2										
Add Init Calc										



Phase Options+ [1.1.3]

Options+	1	2	3	4	5	6	7	8	9	10
Reservice										
PedClr Thru Yel										
SkipRed-NoCall										
Red Rest										
Max II										
*Max III										
Max Inhibit										
Ped Delay										
Red Rest on Gap										
Conflicting Phase	0	0	0	0	0	0	0	0	0	0
Grn/Ped Delay										
Omit Yel, Yel P	0	0	0	0	0	0	0	0	0	0
Ped Out/Olp Ped										
StartYel, Next P	0	0	0	0	0	0	0	0	0	0
*StartupVehCall	1	2	3	4	5	6	7	8		
*StartupPedCall										

Phase Concurrency [1.1.4]

Phase	Ring	StartUp	Concurrent Phases							
1	1	RED	5	6	0	0				
2	1	GREEN	5	6	0	0				
3	1	RED	7	8	0	0				
4	1	RED	7	8	0	0				
5	2	RED	1	2	0	0				
6	2	GREEN	1	2	0	0				
7	2	RED	3	4	0	0				
8	2	RED	3	4	0	0				
9	0	RED	0	0	0	0				
10	0	RED	0	0	0	0				
11	0	RED	0	0	0	0				
12	0	RED	0	0	0	0				

Comm Ports [6.6]

Channel	Port	Echo	Mode
Async 1	SP1	NONE	0
Async 2	SP2	NONE	0
Async 3	SP8	NONE	0
Async 4	OFF	NONE	0
Sync 1	SP5S		
Sync 2	OFF		
TS2CVM	NONE		
Opticom	NONE		
GPS	NONE		

Unit Params [1.2.1]

Screen Size	8	Metric	OFF
Startup Flash	0	Red Revert	2
MCE Timeout	0	Auto Ped Clear	OFF
Loc Flsh Start	RSt	Display Time	60
Yellow < 3"	OFF	Tone Disable	ON
Allow Skip Yel	OFF	AudioPedTime	0
Start Red Tm	6	Phase Mode	STD8
Startup Calls	UseProg	CNA FreeTime	0
TOD Dimming	OFF	Diamond Mode	4Ph
ST over Prmpt	OFF	Free Ring Seq	1
Feature Profile	1	IO Mode	USER
Mx Seek TrkTm	0	Max Cyc Timer	0
Mx Seek Dwell	0	CycFlt Actn	ALARM
Prmpt/Ext Coor	EXT	Clrnc Decide	OFF
Aux Switch	STOPTM	LPAlt Srs	3-6
*InhFYA Red St	OFF	Security Delay	0
RingA1go	0		

* - 76.12B or newer

Times+ [1.1.7]

	1	2	3	4	5	6	7	8
Walk2	0	0	0	0	0	0	0	0
BikeClr	0	0	0	0	0	0	0	0
GrnFlash	0	0	0	0	0	0	0	0
SfClrMn	0	0	0	0	0	0	0	0
SfClrNoFlsh	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
NoPed Reserv								

Comm [6.2]

Port	Baud Rate	FCM
1	38400	6
2	9600	6
3	9600	6
4	9600	6

Comm [6.5] — Host IPs

IP Address:	10	53	26	131	ATMS			
Mask:	255	255	255	0	10	50	10	22
Gateway:	10	53	26	1	SG			
Port #:	5126				0	0	0	0

City of FRESNO

Phase Seq. (2 ring) Chart [1.2.4]

Seq #	Ring	Phases					
1	1	1	2	3	4	0	0
	2	5	6	7	8	0	0
2	1	1	2	3	4	0	0
	2	6	5	7	8	0	0
3	1	2	1	3	4	0	0
	2	5	6	7	8	0	0
4	1	2	1	3	4	0	0
	2	6	5	7	8	0	0
5	1	1	2	3	4	0	0
	2	5	6	8	7	0	0
6	1	1	2	3	4	0	0
	2	6	5	8	7	0	0
7	1	2	1	3	4	0	0
	2	5	6	8	7	0	0
8	1	2	1	3	4	0	0
	2	6	5	8	7	0	0
9	1	1	2	4	3	0	0
	2	5	6	7	8	0	0
10	1	1	2	4	3	0	0
	2	6	5	7	8	0	0
11	1	2	1	4	3	0	0
	2	5	6	7	8	0	0
12	1	2	1	4	3	0	0
	2	6	5	7	8	0	0
13	1	1	2	4	3	0	0
	2	5	6	8	7	0	0
14	1	1	2	4	3	0	0
	2	6	5	8	7	0	0
15	1	2	1	4	3	0	0
	2	5	6	8	7	0	0
16	1	2	1	4	3	0	0
	2	6	5	8	7	0	0

Advance Warning [1.1.9]

	Ph	Tm
Aux Out #1	0	0
Aux Out #2	0	0

NAME: Behymer & Willow **ID:** 285 **Configuration:** Standard File

V76.12/13
Updated 12/6/17

Prepared by:	JT	Date Installed / By:	2/29/2020 (JT)
Checked by:	JT	Date Superseded:	

Date Printed: 2/28/20

[2.1] Coord Modes+

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX INH
Force Mode	FIXED
Flash Mode	CHANNEL

Coord Modes+ (Page 2)

FreeonSeqCh	ON
Closed Loop	OFF
External	OFF
Latch Sec Frc	OFF
Stop-in-Walk	OFF
Ped Recycle	P1256_INH
Expand Split	OFF
Easy Float	OFF
Auto Reset	ON
NTCIP Yield	+ 0

Leave Walk

Before	TIMED
After	TIMED

Intersection Name: Behymer & Willow

ID: 285

Date Printed: 2/28/2020

[2.4] Patterns

Pat#	Cyc	Off	Split	Seq
1	0	0	1	1
2	0	0	2	1
3	0	0	3	1
4	0	0	4	1
5	0	0	5	1
6	0	0	6	1
7	0	0	7	1
8	0	0	8	1
9	0	0	9	1
10	0	0	10	1
11	0	0	0	1
12	0	0	0	1
13	0	0	0	1

[2.7.1-24] Splits

Split	[2.7]	1	2	3	4	5	6	7	8	9	10
1	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
2	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
3	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
4	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
5	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
6	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
7	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
8	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
9	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
10	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
11	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
12	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
13	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON

[2.5] Transition

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	Ret Hold	Flt	Min Veh	Min Ped	MI
1	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
2	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
3	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
4	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
5	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
6	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
7	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
8	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
9	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	OFF
10	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	OFF
11		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
12	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
13		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF

[2.1] Coord Modes+

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX INH
Force Mode	FIXED
Flash Mode	CHANNEL

Coord Modes+ (Page 2)

FreeonSeqCh	ON
Closed Loop	OFF
External	OFF
Latch Sec Frc	OFF
Stop-in-Walk	OFF
Ped Recycle	P1256_INH
Expand Splt	OFF
Easy Float	OFF
Auto Reset	ON
NTCIP Yield	+ 0

Leave Walk

Before	TIMED
After	TIMED

Intersection Name: Behymer & Willow

ID: 285

Date Printed: 2/28/2020

[2.4] Patterns

Pat#	Cyc	Off	Split	Seq
20	0	0	0	1
21	0	0	0	1
22	0	0	0	1
23	0	0	0	1
24	0	0	0	1
25	0	0	0	1
26	0	0	0	1
27	0	0	0	1
28	0	0	0	1
29	0	0	0	1
30	0	0	0	1
31	0	0	0	1
32	0	0	0	1

[2.7.1-24] Splits

Split	[2.7]	1	2	3	4	5	6	7	8	9	10
20	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
21	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
22	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
23	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
24	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
25	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
26	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
27	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
28	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
29	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
30	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
31	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
32	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON

[2.5] Transition

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	Ret Hold	Flt	Min Veh	Min Ped	MI
20		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
21	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
22		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
23	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
24		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
25	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
26		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
27	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
28		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
29	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
30		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
31	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
32		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF

[2.7.X.3] TSP Split Table

Pat#	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
1	0	0	1	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
2	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	2	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
3	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	3	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
4	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	4	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
5	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	5	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
6	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	6	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
9 - FREE	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	9	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						

[2.9.2.(1-8)] Strategy Tables

STRATEGY_1

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_2

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_3

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_4

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_5

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_6

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_7

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_8

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

Overlap 1-8 Program Parms & Parm+ [1.5.2.1] [1.5.2.8]

1	Included Ø									NORMAL		
	Modifier Ø									Grn		
	Conflict Ø									Yel	3	
A	Conflict Olap									Red	1	
	Conflict Ped											
2	Included Ø									NORMAL		
	Modifier Ø									Grn		
	Conflict Ø									Yel	3	
B	Conflict Olap									Red	1	
	Conflict Ped											
3	Included Ø									NORMAL		
	Modifier Ø									Grn		
	Conflict Ø									Yel	3	
C	Conflict Olap									Red	1	
	Conflict Ped											
4	Included Ø									NORMAL		
	Modifier Ø									Grn		
	Conflict Ø									Yel	3	
D	Conflict Olap									Red	1	
	Conflict Ped											
5	Included Ø									NORMAL		
	Modifier Ø									Grn		
	Conflict Ø									Yel	3	
E	Conflict Olap									Red	1	
	Conflict Ped											
6	Included Ø									NORMAL		
	Modifier Ø									Grn		
	Conflict Ø									Yel	3	
F	Conflict Olap									Red	1	
	Conflict Ped											
7	Included Ø									NORMAL		
	Modifier Ø									Grn		
	Conflict Ø									Yel	3	
G	Conflict Olap									Red	1	
	Conflict Ped											
8	Included Ø									NORMAL		
	Modifier Ø									Grn		
	Conflict Ø									Yel	3	
H	Conflict Olap									Red	1	
	Conflict Ped											

OLP GENERAL PARAMETERS [1.5.1]

Lock Inhibit	OFF
Conflict Lock Enable	OFF
Parent P Clearance	ON
Xtra Incl Phases	OFF
InhibitLockInterval	Always

Channel Parameters [1.8.3]

Pre Invert Rail Input	OFF

Preemption Options+ [3.Pre #.6]

Pre #	Enable	Type	Output	Pattern	Skip	Co+Pre	Flash	Max/Min
1	OFF	RAIL	TS2		OFF	OFF	OFF	MAX
2	OFF	RAIL	TS2	0	OFF	OFF	OFF	MAX
3	ON	EMERG	TS2		OFF	OFF	OFF	MAX
4	ON	EMERG	TS2	0	OFF	OFF	OFF	MAX
5	ON	EMERG	TS2		OFF	OFF	OFF	MAX
6	ON	EMERG	TS2	0	OFF	OFF	OFF	MAX

Preemption Times [3.#.1]

Pre #	Delay	MinDura	MaxPres	MinGrn	MinWlk	PedClr	Track Grn	Min Dwell
1								
2	0	0	0	0	0	0	0	0
3		10	60	6		33		10
4	0	10	60	6	0	33	0	10
5		10	60	6		33		10
6	0	10	60	6	0	33	0	10

Preemption, Options [3.#.3]

Pre #	Lock Input	Over-ride Auto Flash	Over-ride Higher Preempt	Flash Dwell	Link
1	OFF	OFF	OFF	ON	
2	OFF	OFF	OFF	OFF	0
3	OFF	OFF	OFF	OFF	
4	OFF	OFF	OFF	OFF	0
5	OFF	OFF	OFF	OFF	
6	OFF	OFF	OFF	OFF	0

Preemption, Times+ [3.#.4]

Pre No.	Extend Dwell	Return Max	Ped Clr	Yel	Red
1					
2	0	0	0	0	0
3		20	10	3.9	2
4	0	20	10	3.9	2
5		20	10	3.9	2
6	0	20	10	3.9	2

Pre 1 = RR1
Pre 2 = RR2
Pre 3 = EVA
Pre 4 = EVB
Pre 5 = EVC
Pre 6 = EVD

Prog Parms+ (MM>1>5>2>X>3)

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

OverlapB+: 1-A

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

OverlapB+: 2-B

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

OverlapB+: 3-C

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

OverlapB+: 4-D

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

Phases [3.#.2] - set the Dwell Phases

Pre #	Column	1	2	3	4	5	6	7	8	9	10
1	Dwell Veh										
	Peds										
2	Dwell Veh										
	Peds										
3	Dwell Veh	2	5								
	Peds										
4	Dwell Veh	4	7								
	Peds										
5	Dwell Veh	6	1								
	Peds										
6	Dwell Veh	8	3								
	Peds										

Phases [3.#.2] - Trk Veh

Pre #	Phases			
1				
2				
3				
4				
5				
6				

Exit Phases [3.#.2]

No.	Exit Phase			
1				
2				
3	2	5		
4	4	7		
5	1	6		
6	3	8		

Overlaps+ [3.#.5]

Pre #		Preempt Overlaps +									
1	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
2	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
3	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
4	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
5	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
6	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										

City of FRESNO

ID: 285 **Name:** Behymer & Willow **Date Printed:** 2/28/2020

CHANNEL SETTINGS [1.8] plus UNIT PARAMETERS [1.2.1]

CHANNEL SETTINGS [1.8.1]

Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Phase / Olap #	1	2	3	4	5	6	7	8	1	2	3	4	2	4	6	8
Channel Type	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	OLP	OLP	OLP	OLP	PED	PED	PED	PED
Channel Flash	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	DRK	DRK	DRK	DRK
Flash 1-2 Hertz		X		X		X		X								
	Page 1								Page 2							

Chan Settings [1.8.2]

Channel	17	18	19	20	21	22	23	24
Phase / Olap #								
Channel Type	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH
Channel Flash	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK
Flash 1-2 Hertz								

CHANNEL PARMETERS [1.8.3]

CH 17-24 Mapping:	DEFAULT
D-Conn Mapping:	NONE
Invert Rail Inputs:	OFF
C1-C11-ABC IO Mode:	USER

IO PARAMETERS [1.8.6]

C1-C11-ABC IO Mode:	USER
D-Conn Mapping:	NONE
T & F BIU Mapping	DEFAULT
Invert Rail Inputs:	OFF
EVP Ped Confirm	OFF

CHANNELS+ [1.8.4]

Channel	*1*	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15*	*16*
Flash Green	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Flash Red	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Flash Yellow	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Inh Red Fl in Preempt	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Olap Ovrd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Override Type	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ID: 285 **NAME:** Behymer & Willow

I/O LOGIC [1.8.7]

Prt Date: 2/28/2020

Row#	Result			Operand_1					Operand_2					Operand_3					Timer	
	I/O	Fcn	=	Inv	Src	I/0	Fun	Logic Func	Inv	Src	I/0	Fun	Logic Func	Inv	Src	I/0	Fun	Logic Func	Dly	Sec
1	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
2	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
3	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
4	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
5	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
6	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
7	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
8	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
9	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
10	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0

Ped Parms (MM>5>4)

Det#	Call	No Act	Max Pres	Err Cnt
1	0	0	0	0
2	2	0	0	0
3	0	0	0	0
4	4	0	0	0
5	0	0	0	0
6	6	0	0	0
7	0	0	0	0
8	8	0	0	0

Veh Par 1-32 [5.1]											Vehicle Options 1-32 [5.2]									Parameters+ 1-32 [5.3]								Info Only	
Det #	Input Slot	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time	Det #	Call	Ext	Que	Add Init	Red Lock	Yell Lock	occ	vol	Det #	Occupancy G	Occupancy Y	Occupancy R	Delay 1	Delay 2	Type	Src	Dir	Det #
1	1I1U	1					0	0	0	255	1	X	X	-	-	-	-	X	X	1	X	X	-			NORM		NBL1	1
2	2I2U	2	0	0	0	0	0	0	0	255	2	-	X	-	-	-	-	X	X	2	X	X	-	0	0	NORM	0		2
3	2I2L	2	0	0	2	0	0	0	0	255	3	X	-	-	-	-	-	X	X	3	X	X	-	0	0	STOPB	0		3
4	2I3U	2	0	0	2	0	0	0	0	255	4	X	-	-	-	-	-	X	X	4	X	X	-	0	0	STOPB	0	SBT3	4
5	2I3L	2	0	0	2	0	0	0	0	255	5	X	-	-	-	-	-	X	X	5	X	X	-	0	0	STOPB	0	SBR1	5
6	2I4U	2	0	0	2	0	0	0	0	255	6	X	-	-	-	-	-	X	X	6	X	X	-	0	0	STOPB	0	SBT1	6
7	3I5U	3					0	0	0	255	7	X	X	-	-	-	-	X	X	7	X	X	-			NORM		EBL1	7
8	4I6U	4	0	0	0	0	0	0	0	255	8	-	X	-	-	-	-	X	X	8	X	X	-	0	0	NORM	0		8
9	4I6L	4	0	10	2	0	0	0	0	255	9	X	-	-	-	-	-	X	X	9	X	X	-	0	0	STOPB	0		9
10	4I7U	4	0	0	2	0	0	0	0	255	10	X	-	-	-	-	-	X	X	10	X	X	-	0	0	STOPB	0		10
11	4I7L	4		15	2		0	0	0	255	11	X	-	-	-	-	-	X	X	11	X	X	-			STOPB			11
12	4I8U	4			2		0	0	0	255	12	X	-	-	-	-	-	X	X	12	X	X	-			STOPB		WBT1	12
13	1I9U	1	0	0	0	0	0	0	0	255	13	X	X	-	-	-	-	X	X	13	X	X	-	0	0	NORM	0		13
14	3I9L	3	0	0	0	0	0	0	0	255	14	X	X	-	-	-	-	X	X	14	X	X	-	0	0	NORM	0		14
15	5J1U	5	0	0	0	0	0	0	0	255	15	X	X	-	-	-	-	X	X	15	X	X	-	0	0	NORM	0	SBL1	15
16	6J2U	6					0	0	0	255	16	-	X	-	-	-	-	X	X	16	X	X	-			NORM			16
17	6J2L	6			2		0	0	0	255	17	X	-	-	-	-	-	X	X	17	X	X	-			STOPB			17
18	6J3U	6			2		0	0	0	255	18	X	-	-	-	-	-	X	X	18	X	X	-			STOPB		NBT3	18
19	6J3L	6			2		0	0	0	255	19	X	-	-	-	-	-	X	X	19	X	X	-			STOPB		NBR1	19
20	6J4U	6			2		0	0	0	255	20	X	-	-	-	-	-	X	X	20	X	X	-			STOPB		NBT1	20
21	7J5U	7					0	0	0	255	21	X	X	-	-	-	-	X	X	21	X	X	-			NORM		WBL1	21
22	8J6U	8	0	0	0	0	0	0	0	255	22	-	X	-	-	-	-	X	X	22	X	X	-	0	0	NORM	0		22
23	8J6L	8	0	0	2	0	0	0	0	255	23	X	-	-	-	-	-	X	X	23	X	X	-	0	0	STOPB	0		23
24	8J7U	8	0	0	2	0	0	0	0	255	24	X	-	-	-	-	-	X	X	24	X	X	-	0	0	STOPB	0	EBT3	24
25	8J7L	8	0	15	2	0	0	0	0	255	25	X	-	-	-	-	-	X	X	25	X	X	-	0	0	STOPB	0	EBR1	25
26	8J8U	8	0	0	2	0	0	0	0	255	26	X	-	-	-	-	-	X	X	26	X	X	-	0	0	STOPB	0	EBT1	26
27	5J9U	5					0	0	0	255	27	X	X	-	-	-	-	X	X	27	X	X	-			NORM			27
28	7J9L	7					0	0	0	255	28	X	X	-	-	-	-	X	X	28	X	X	-			NORM			28
29	2I11U	2	0	0	2	0	0	0	0	255	29	X	-	-	-	-	-	X	X	29	X	X	-	0	0	STOPB	0		29
30	4I11L	4	0	15	2	0	0	0	0	255	30	X	-	-	-	-	-	X	X	30	X	X	-	0	0	STOPB	0		30
31	6J11U	6			2		0	0	0	255	31	X	-	-	-	-	-	X	X	31	X	X	-			STOPB			31
32	8J11L	8		15	2		0	0	0	255	32	X	-	-	-	-	-	X	X	32	X	X	-			STOPB			32
33	1I1L	1	0	0	0	0	0	0	0	255	33	X	X	-	-	-	-	X	X	33	X	X	-	0	0	NORM	0	NBL2	33
34	2I4L	2			2		0	0	0	255	34	X	-	-	-	-	-	X	X	34	X	X	-			STOPB		SBT2	34
35	3I5L	3	0	0	0	0	0	0	0	255	35	X	X	-	-	-	-	X	X	35	X	X	-	0	0	NORM	0	EBL2	35
36	4I8L	4		15	2		0	0	0	255	36	X	-	-	-	-	-	X	X	36	X	X	-			STOPB		WBR1	36
37	5J1L	5	0	0	0	0	0	0	0	255	37	X	X	-	-	-	-	X	X	37	X	X	-	0	0	NORM	0	SBL2	37
38	6J4L	6			2		0	0	0	255	38	X	-	-	-	-	-	X	X	38	X	X	-			STOPB		NBT2	38
39	7J5L	7	0	0	0	0	0	0	0	255	39	X	X	-	-	-	-	X	X	39	X	X	-	0	0	NORM	0		39
40	8J8L	8			2		0	0	0	255	40	X	-	-	-	-	-	X	X	40	X	X	-			STOPB		EBT2	40
41	4I10U	4					0	0	0	255	41	-	X	-	-	-	-	X	X	41	X	X	-			NORM			41
42	4I10L	4					0	0	0	255	42	-	X	-	-	-	-	X	X	42	X	X	-			NORM			42
43	8J10U	8					0	0	0	255	43	-	X	-	-	-	-	X	X	43	X	X	-			NORM			43
44	8J10L	8					0	0	0	255	44	-	X	-	-	-	-	X	X	44	X	X	-			NORM			44

ID: 285 **Name:** Behymer & Willow

Vol/Occ Period 0 Seconds / 5 Minutes

2/28/2020

Alt# 1 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 2 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 3 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 1 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø		0		0		0		0
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Entry	-	-	-	-	-	-	-	-
Enabl SimGap	-	-	-	-	-	-	-	-
Guar Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1		0		0		0		0

Alt# 2 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø		0		0		0		0
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Enrty	-	-	-	-	-	-	-	-
Enabl SimGap	-	-	-	-	-	-	-	-
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1		0		0		0		0

Alt# 3 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø		0		0		0		0
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Enrty	-	-	-	-	-	-	-	-
Enabl SimGap	-	-	-	-	-	-	-	-
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1		0		0		0		0

Alt# 4 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø		0		0		0		0
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Entry	-	-	-	-	-	-	-	-
Enabl SimGap	-	-	-	-	-	-	-	-
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1		0		0		0		0

Alternate Tables [2.6]

Pat#	POpt	PTime	DetGrp	Call/Inh	Olp Off 1	2	3	4	5	6	7	8	ASC	CNA1	Max2	Dia
1	0	0	0	0									0	Off		DFT
2													0	Off		DFT
3	0	0	0	0									0	Off		DFT
4													0	Off		DFT
5	0	0	0	0									0	Off		DFT
6													0	Off		DFT
7	0	0	0	0									0	Off		DFT
8													0	Off		DFT
9	0	0	0	0									0	Off		DFT
10													0	Off		DFT
11	0	0	0	0									0	Off		DFT
12													0	Off		DFT
13	0	0	0	0									0	Off		DFT
14													0	Off		DFT
15	0	0	0	0									0	Off		DFT
16													0	Off		DFT
17	0	0	0	0									0	Off		DFT
18													0	Off		DFT
19	0	0	0	0									0	Off		DFT
20													0	Off		DFT
21	0	0	0	0									0	Off		DFT
22													0	Off		DFT
23	0	0	0	0									0	Off		DFT
24													0	Off		DFT

Time Base Parameters [4.6]

Daylight Savings Time	ENABLE	
Time Base Sync Ref	0	
GMT Offset	-	8
Daylight Savings	**Mon**	**Week**
Spring	3	2
Fall	11	1

NOTE: % and MI parameters are not used and are not shown above.

City of FRESNO

NAME: Behymer & Willow

2/28/2020 **ID:** 285

Annual Schedule [4.3]

NAME: Behymer & Willow

ID No. 285

Month

	J	F	M	A	M	J	J	A	S	O	N	D
1	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X
4											X	
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												

Day of Week

	S	M	T	W	T	F	S
1		X	X	X	X	X	
2							X
3	X						
4					X		
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							

Date

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Day Plan
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-	4
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

DAY PLANS [4.4]

Plan 1				Plan 2				Plan 3				Plan 4				Plan 5			
Evt	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act
1		1	54	1		1	54	1		1	54	1	0	1	54	1			
2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
3				3				3				3	0			3			
4	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0
5				5				5				5	0			5			
6	0	0	0	6	0	0	0	6	0	0	0	6	0	0	0	6	0	0	0
7				7				7				7	0			7			
8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0
9				9				9				9	0			9			
10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0

Plan 6				Plan 7				Plan 8				Plan 9				Plan 10			
Evt	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act
1				1				1				1				1			
2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
3				3				3				3				3			
4	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0
5				5				5				5				5			
6	0	0	0	6	0	0	0	6	0	0	0	6	0	0	0	6	0	0	0
7				7				7				7				7			
8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0
9				9				9				9				9			
10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0

#	Alarm	Ev	Alr
1	Power Up Alarm.	X	X
2	Stop Timing	X	X
3	Cabinet Door Activation	-	-
4	Coordination Failure	X	X
5	External Alarm # 1	-	-
6	External Alarm # 2	-	-
7	External Alarm # 3	-	-
8	External Alarm # 4	-	-
9	Closed Loop Disabled	-	-
10	External Alarm # 5	-	-
11	External Alarm # 6	-	-
12	Manual Control Enable	X	X
13	Coord Free Input	-	-
14	Local Flash Input	X	X
15	CMU/MMU Flash Input	-	-
16	MMU Fault	X	X
17	Cycle Fault	X	-
18	Cycle Failure	X	-
19	Coordination Fault	X	X
20	Controller Fault	X	X
25	EEPROM CRC Fault	X	X
30	Coord Diagnostic Fault	X	X
37	Download Request	X	X
38	Pattern Change	-	-
49	Preempt 1 Input	X	X
50	Preempt 2 Input	X	X
51	Preempt 3 Input	X	X
52	Preempt 4 Input	X	X
53	Preempt 5 Input	X	X
54	Preempt 6 Input	X	X
55	Preempt 7 Input	-	-
56	Preempt 8 Input	-	-
57	Preempt 9 Input	-	-
58	Preempt 10 Input	-	-
59	EEPROM Compare Fault	X	X
60	Coordination Failure	X	X
63	TSP Active Trigger	-	-
73	Controller Access	X	X
81	FIO Changed Status	X	X

#1 Bus Preempt

Enable	OFF	Min	0	Times		Prior. Phases	0	0	0	0
Coor+Pre	OFF	Max	0			---TSP---				
Lock Mode	MAX	Lock	0			Headway	0			
No Skip	OFF	Alt Table	0			GrpLock	OFF			
Qjump	OFF	HoldDwell	#N/A			FreeMod	OFF			

#2 Bus Preempt

Enable	OFF	Min	0	Times		Prior. Phases	0	0	0	0
Coor+Pre	OFF	Max	0			---TSP---				
Lock Mode	MAX	Lock	0			Headway	0			
No Skip	OFF	Alt Table	0			GrpLock	OFF			
Qjump	OFF	HoldDwell	#N/A			FreeMod	OFF			

#3 Bus Preempt

Enable	OFF	Min	0	Times		Prior. Phases	0	0	0	0
Coor+Pre	OFF	Max	0			---TSP---				
Lock Mode	MAX	Lock	0			Headway	0			
No Skip	OFF	Alt Table	0			GrpLock	OFF			
Qjump	OFF	HoldDwell	#N/A			FreeMod	OFF			

#4 Bus Preempt

Enable	OFF	Min	0	Times		Prior. Phases	0	0	0	0
Coor+Pre	OFF	Max	0			---TSP---				
Lock Mode	MAX	Lock	0			Headway	0			
No Skip	OFF	Alt Table	0			GrpLock	OFF			
Qjump	OFF	HoldDwell	#N/A			FreeMod	OFF			

I/O INPUT TABLE

	1	2	3	4	5	6	7	8
1	2	16	8	22	3	17	9	23
2	6	20	12	26	198	199	30	31
3	15	1	21	7	27	13	28	14
4	189	189	189	189	4	18	10	24
5	130	134	132	136	200	201	202	203
6	32	5	19	11	25	29	208	207
7	33	34	35	36	37	38	39	40
8	41	42	43	44	189	189	189	189

ACTION Table [4.5]

Act	Pat#	A1	A2	A3	S1	S2	S3	S4	S5	S6	S7	S8	P1	P2
1	1	-	-	-	-	-	-	-	-	-	-	-	0	0
2	2	-	-	-	-	-	-	-	-	-	-	-	0	0
3	3	-	-	-	-	-	-	-	-	-	-	-	0	0
4	4	-	-	-	-	-	-	-	-	-	-	-	0	0
5	5	-	-	-	-	-	-	-	-	-	-	-	0	0
6	6	-	-	-	-	-	-	-	-	-	-	-	0	0
7	7	-	-	-	-	-	-	-	-	-	-	-	0	0
8	8	-	-	-	-	-	-	-	-	-	-	-	0	0
9	9	-	-	-	-	-	-	-	-	-	-	-	0	0
10	10	-	-	-	-	-	-	-	-	-	-	-	0	0
11	11	-	-	-	-	-	-	-	-	-	-	-	0	0
12	12	-	-	-	-	-	-	-	-	-	-	-	0	0
13	13	-	-	-	-	-	-	-	-	-	-	-	0	0
14	14	-	-	-	-	-	-	-	-	-	-	-	0	0
15	15	-	-	-	-	-	-	-	-	-	-	-	0	0
16	0	-	-	-	-	-	-	-	-	-	-	-	0	0
54	254	-	-	-	-	-	-	-	-	-	-	-	0	0
55	0	-	-	-	-	-	-	-	-	-	-	-	0	0

Alarm Parameters [1.6.7.1]

Pattern Events:	ON
Local Txmt Alarms:	OFF
Reassign User Alarm #1 In (5):	0
Reassign User Alarm #2 In (6):	0
Preempt Events:	ON

City of FRESNO

Date Printed
2/28/2020

ID: 285 **Name:** Behymer & Willow

I/O Inputs - 1.8.9.1.5

C-1 PIN	I/O Source	Function	Input Name
39	I1-1	2	Veh Det 2
40	I1-2	16	Veh Det 16
41	I1-3	8	Veh Det 8
42	I1-4	22	Veh Det 22
43	I1-5	3	Veh Det 3
44	I1-6	17	Veh Det 17
45	I1-7	9	Veh Det 9
46	I1-8	23	Veh Det 23
47	I2-1	6	Veh Det 6
48	I2-2	20	Veh Det 20
49	I2-3	12	Veh Det 12
50	I2-4	26	Veh Det 26
51	I2-5	198	Pre 1 In
52	I2-6	199	Pre 2 In
53	I2-7	30	Veh Det 30
54	I2-8	31	Veh Det 31
55	I3-1	15	Veh Det 15
56	I3-2	1	Veh Det 1
57	I3-3	21	Veh Det 21
58	I3-4	7	Veh Det 7
59	I3-5	27	Veh Det 27
60	I3-6	13	Veh Det 13
61	I3-7	28	Veh Det 28
62	I3-8	14	Veh Det 14
63	I4-5	4	Veh Det 4
64	I4-6	18	Veh Det 18
65	I4-7	10	Veh Det 10
66	I4-8	24	Veh Det 24
67	I5-1	130	Ped Call 2
68	I5-2	134	Ped Call 6
69	I5-3	132	Ped Call 4
70	I5-4	136	Ped Call 8
71	I5-5	200	Pre 3 In
72	I5-6	201	Pre 4 In
73	I5-7	202	Pre 5 In
74	I5-8	203	Pre 6 In
75	I6-1	32	Veh Det 32
76	I6-2	5	Veh Det 5
77	I6-3	19	Veh Det 19
78	I6-4	11	Veh Det 11
79	I6-5	25	Veh Det 25
80	I6-6	29	Veh Det 29
81	I6-7	208	Local Flash
82	I6-8	207	Comp StopTm

I/O OUTPUTS - 1.8.9.2.5

C-1 PIN	I/O Source	Function	Output Name
1	Logic Grd		
2	O1-1	14	Red Ch 14
3	O1-2	62	Grn Chan 14
4	O1-3	4	Red Ch 4
5	O1-4	28	Yel Chan 4
6	O1-5	52	Grn Chan 4
7	O1-6	3	Red Ch 3
8	O1-7	27	Yel Chan 3
9	O1-8	51	Grn Chan 3
10	O2-1	13	Red Ch 13
11	O2-2	61	Grn Chan 13
12	O2-3	2	Red Ch 2
13	O2-4	26	Yel Chan 2
14	Logic Grd		
15	O2-5	50	Grn Chan 2
16	O2-6	1	Red Ch 1
17	O2-7	25	Yel Chan 1
18	O2-8	49	Grn Chan 1
19	O3-1	16	Red Ch 16
20	O3-2	64	Grn Chan 16
21	O3-3	8	Red Ch 8
22	O3-4	32	Yel Chan 8
23	O3-5	56	Grn Chan 8
24	O3-6	7	Red Ch 7
25	O3-7	31	Yel Chan 7
26	O3-8	55	Grn Chan 7
27	O4-1	15	Red Ch 15
28	O4-2	63	Grn Chan 15
29	O4-3	6	Red Ch 6
30	O4-4	30	Yel Chan 6
31	O4-5	54	Grn Chan 6
32	O4-6	5	Red Ch 5
33	O4-7	29	Yel Chan 5
34	O4-8	53	Grn Chan 5
35	O5-1	37	Yel Chan 13
36	O5-2	39	Yel Chan 15
37	O5-3	38	Yel Chan 14
38	O5-4	40	Yel Chan 16
100	O5-5	42	Yel Chan 18
101	O5-6	41	Yel Chan 17
102	O5-7	115	Not Used
103	O5-8	114	Watchdog

C-1 PIN	I/O Source	Function	Output Name
83	O6-1	18	Red Ch 18
84	O6-2	66	Grn Chan 18
85	O6-3	12	Red Ch 12
86	O6-4	36	Yel Chan 12
87	O6-5	60	Grn Chan 12
88	O6-6	11	Red Ch 11
89	O6-7	35	Yel Chan 11
90	O6-8	59	Grn Chan 11
91	O7-1	17	Red Ch 17
92	Logic Grd		
93	O7-2	65	Grn Chan 17
94	O7-3	10	Red Ch 10
95	O7-4	34	Yel Chan 10
96	O7-5	58	Grn Chan 10
97	O7-6	9	Red Ch 9
98	O7-7	33	Yel Chan 9
99	O7-8	57	Grn Chan 9

I/O Outputs - 1.8.9.2.5
C-11 OUTPUTS

1	O8-1	115	Not Used
2	O8-2	115	Not Used
3	O8-3	115	Not Used
4	O8-4	115	Not Used

I/O Inputs - 1.8.9.1.5
C-11 INPUTS

15	I7-1	33	Veh Det 33
16	I7-2	34	Veh Det 34
17	I7-3	35	Veh Det 35
18	I7-4	36	Veh Det 36
19	I7-5	37	Veh Det 37
20	I7-6	38	Veh Det 38
21	I7-7	39	Veh Det 39
22	I7-8	40	Veh Det 40
23	I8-1	41	Veh Det 41
24	I8-2	42	Veh Det 42
25	I8-3	43	Veh Det 43
26	I8-4	44	Veh Det 44
27	I8-5	189	Unused
28	I8-6	189	Unused
29	I8-7	189	Unused
30	I8-8	189	Unused

City of FRESNO

ID: 285

NAME: Behymer & Willow

Date Printed: 2/28/2020

ID Number: 285

LOCATION: Behymer & Willow

City of Fresno
332 Cabinet
44 Detector Plus Setup

DETECTOR ASSIGNMENTS

ISOLATORS

"I"	I1	I2	I3	I4	I5	I6	I7	I8	I9	I10	I11	I12	I13	I14
UPPER	Ph 1 Call&Ext T2-1&2 C1-56 Det 1 NBL1	Ph 2 Ext T2-5&6 C1-39 Det 2 SB Far	Ph 2 Call&TP3 T2-9&10 C1-63 Det 4 SB Mid	Ph 2 Call&TP3 T4-1&2 C1-47 Det 6 SBT1	Ph 3 Call&Ext T4-5&6 C1-58 Det 7 EBL1	Ph 4 Ext T4-9&10 C1-41 Det 8 WB Far	Ph 4 Call&TP3 T6-1&2 C1-65 Det 10 WB Mid	Ph 4 Call&TP3 T6-5&6 C1-49 Det 12 WBT1	Ph 1 Call&Ext T6-9&10 C1-60 Det 13 NBLt Bk	Ph 2/4 Ext T10-5&6 C11-23 Det 41	Ph 2 Call&Ext T8-1 C1-80 Det 29 BIKE	Ph 2 PPB T8-4 C1-67	Ph 6 PPB T8-7 C1-68	FLASH SENSE T8-10 C1-81
LOWER	Ph 1 Call&Ext T2-3&4 C11-15 Det 33 NBL2	Ph 2 Call&TP3 T2-7&8 C1-43 Det 3 SB Bk	Ph 2 Call&Ext T2-11&12 C1-76 Det 5 SBRt	Ph 2 Call&TP3 T4-3&4 C11-16 Det 34 SBT2	Ph 3 Call&Ext T4-7&8 C11-17 Det 35 EBL2	Ph 4 Call&TP3 T4-11&12 C1-45 Det 9 WB Bk	Ph 4 Call&Ext T6-3&4 C1-78 Det 11 WBRt	Ph 4 Call&TP3 T6-7&8 C11-18 Det 36 WBT2	Ph 3 Call&Ext T6-11&12 C1-62 Det 14 EBLt Bk	Ph 2/4 Ext T10-7&8 C11-24 Det 42	Ph 4 Call&Ext T8-2 C1-53 Det 30 BIKE	Ph 4 PPB T8-5 C1-69	Ph 8 PPB T8-8 C1-70	STOP TIMING T8-11 C1-82
"J"	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	J13	J14
UPPER	Ph 5 Call&Ext T3-1&2 C1-55 Det 15 SBL1	Ph 6 Ext T3-5&6 C1-40 Det 16 NB Far	Ph 6 Call&TP3 T3-9&10 C1-64 Det 18 NB Mid	Ph 6 Call&TP3 T5-1&2 C1-48 Det 20 NBT1	Ph 7 Call&Ext T5-5&6 C1-57 Det 21 WBL1	Ph 8 Ext T5-9&10 C1-42 Det 22 EB Far	Ph 8 Call&TP3 T7-1&2 C1-66 Det 24 EB Mid	Ph 8 Call&TP3 T7-5&6 C1-50 Det 26 EBT1	Ph 5 Call&Ext T7-9&10 C1-59 Det 27 SBLt Bk	Ph 6/8 Ext T10-9&10 C11-25 Det 43	Ph 6 Call&Ext T9-1 C1-54 Det 31 BIKE	EMER A Ph 2 + 5 T9-4 C1-71	EMER B Ph 4 + 7 T9-5 C1-72	RR1 FLASH T9-10 C1-51
LOWER	Ph 5 Call&Ext T3-3&4 C11-19 Det 37 SBL2	Ph 6 Call&TP3 T3-7&8 C1-44 Det 17 NB Bk	Ph 6 Call&Ext T3-11&12 C1-77 Det 19 NBRt	Ph 6 Call&TP3 T5-3&4 C11-20 Det 38 NBT2	Ph 7 Call&Ext T5-7&8 C11-21 Det 39 WBL2	Ph 8 Call&TP3 T5-11&12 C1-46 Det 23 EB Bk	Ph 8 Call&Ext T7-3&4 C1-79 Det 25 EBRt	Ph 8 Call&TP3 T7-7&8 C11-22 Det 40 EBT2	Ph 7 Call&Ext T7-11&12 C1-61 Det 28 WBLt Bk	Ph 6/8 EXT T10-11&12 C11-26 Det 44	Ph 8 Call&Ext T9-2 C1-75 Det 32 BIKE	EMER C Ph 1 + 6 T9-7 C1-73	EMER D Ph 3 + 8 T9-8 C1-74	RR2 LTD OP T9-11 C1-52

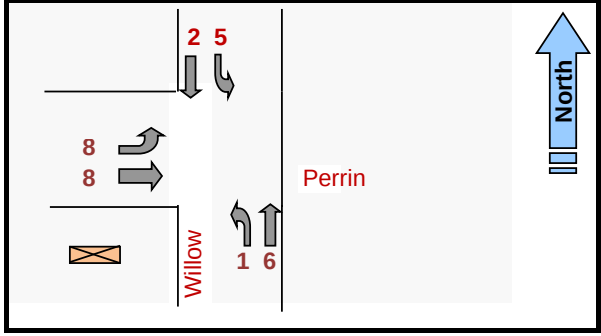
COMMENTS:

TIMING UPDATES AND MODIFICATIONS

ID: 285 **NAME:** Behymer & Willow

DATE	CHANGES MADE	ATMS or CABINET	BY
2/28/2020	Updated All Red Start from 4 to 6 seconds. Updated timing calculations, FDW, and detector attributes.	ATMS	JT

Movement	NL	ST			SL	NT		ET		
Times [1.1.1]	1	2	3	4	5	6	7	8	9	10
Min Green	8	8	0		8	8		8		0
Gap, Ext	2	5.9	0		2	5.9		5.5		0
Max 1	20	35	0		20	35		30		0
Max 2	12	25	0		12	25		20		0
Yel Clearance	4.3	4.7	0		4.3	4.7		4.3		0
Red Clearance	2	1	0		1	1		1		0
Walk	0	5	0			0		0		0
Ped Clearance	0	32	0			0		0		0
Red Revert	2	2	0		2	2		2		0
Add Initial	0		0			0		0		0
Max Initial	0		0			0		0		0
Time B4 Reduct	0	8	0			8		8		0
Cars B4 Reduct	0		0			0		0		0
Time To Reduce	0	18	0			18		15		0
Reduce By	0		0			0		0		0
Min Gap	2	2	0		2	2		2		0
DyMaxLim	0		0			0		0		0
Max Step	0		0			0		0		0
Options [1.1.2]	1	2	3	4	5	6	7	8	9	10
Enable	X	X			X	X		X		
Min Recall										
Max Recall										
Ped Recall										
Soft Recall		X				X				
Lock Calls										
Auto Flash Entry										
Auto Flash Exit										
Dual Entry		X				X				
Enable Simul Gap										
Gaurantee Passage										
Rest In Walk										
Conditonal Service										
Non-Actuated 1										
Non-Actuated 2										
Add Init Calc										



Phase Options+ [1.1.3]

Options+	1	2	3	4	5	6	7	8	9	10
Reservice										
PedClr Thru Yel										
SkipRed-NoCall										
Red Rest										
Max II										
*Max III										
Max Inhibit										
Ped Delay										
Red Rest on Gap										
Conflicting Phase	0	0	0	0	0	0	0	0	0	0
Grn/Ped Delay										
Omit Yel, Yel P	0	0	0	0	0	0	0	0	0	0
Ped Out/Olp Ped										
StartYel, Next P	0	0	0	0	0	0	0	0	0	0
*StartupVehCall	1	2	3	4	5	6	7	8		
*StartupPedCall										

Phase Concurrency [1.1.4]

Phase	Ring	StartUp	Concurrent Phases							
1	1	RED	5	6	0	0				
2	1	GREEN	5	6	0	0				
3	1	RED	7	8	0	0				
4	1	RED	7	8	0	0				
5	2	RED	1	2	0	0				
6	2	GREEN	1	2	0	0				
7	2	RED	3	4	0	0				
8	2	RED	3	4	0	0				
9	0	RED	0	0	0	0				
10	0	RED	0	0	0	0				
11	0	RED	0	0	0	0				
12	0	RED	0	0	0	0				

Comm Ports [6.6]

Channel	Port	Echo	Mode
Async 1	SP1	NONE	0
Async 2	SP2	NONE	0
Async 3	SP8	NONE	0
Async 4	OFF	NONE	0
Sync 1	SP5S		
Sync 2	OFF		
TS2CVM	NONE		
Opticom	NONE		
GPS	NONE		

Unit Params [1.2.1]

Screen Size	8	Metric	OFF
Startup Flash	0	Red Revert	2
MCE Timeout	0	Auto Ped Clear	OFF
Loc Flsh Start	RSt	Display Time	60
Yellow < 3"	OFF	Tone Disable	ON
Allow Skip Yel	OFF	AudioPedTime	0
Start Red Tm	6	Phase Mode	STD8
Startup Calls	UseProg	CNA FreeTime	0
TOD Dimming	OFF	Diamond Mode	4Ph
ST over Prmpt	OFF	Free Ring Seq	1
Feature Profile	1	IO Mode	USER
Mx Seek TrkTm	0	Max Cyc Timer	0
Mx Seek Dwell	0	CycFlt Actn	ALARM
Prmpt/Ext Coor	EXT	Clrnc Decide	OFF
Aux Switch	STOPTM	LPAlt Srs	3-6
*InhFYA Red St	OFF	Security Delay	0
RingA1go	0		

* - 76.12B or newer

Times+ [1.1.7]

	1	2	3	4	5	6	7	8
Walk2	0	0	0	0	0	0	0	0
BikeClr	0	0	0	0	0	0	0	0
GrnFlash	0	0	0	0	0	0	0	0
SfClrMn	0	0	0	0	0	0	0	0
SfClrNoFlsh	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
NoPed Reserv								

Comm [6.2]

Port	Baud Rate	FCM
1	38400	6
2	9600	6
3	9600	6
4	9600	6

Comm [6.5] — Host IPs

IP Address:	10	53	25	131	ATMS			
Mask:	255	255	255	0	10	50	10	22
Gateway:	10	53	25	1	SG			
Port #:	5125				0	0	0	0

City of FRESNO

Phase Seq. (2 ring) Chart [1.2.4]

Seq #	Ring	Phases					
1	1	1	2	3	4	0	0
	2	5	6	7	8	0	0
2	1	1	2	3	4	0	0
	2	6	5	7	8	0	0
3	1	2	1	3	4	0	0
	2	5	6	7	8	0	0
4	1	2	1	3	4	0	0
	2	6	5	7	8	0	0
5	1	1	2	3	4	0	0
	2	5	6	8	7	0	0
6	1	1	2	3	4	0	0
	2	6	5	8	7	0	0
7	1	2	1	3	4	0	0
	2	5	6	8	7	0	0
8	1	2	1	3	4	0	0
	2	6	5	8	7	0	0
9	1	1	2	4	3	0	0
	2	5	6	7	8	0	0
10	1	1	2	4	3	0	0
	2	6	5	7	8	0	0
11	1	2	1	4	3	0	0
	2	5	6	7	8	0	0
12	1	2	1	4	3	0	0
	2	6	5	7	8	0	0
13	1	1	2	4	3	0	0
	2	5	6	8	7	0	0
14	1	1	2	4	3	0	0
	2	6	5	8	7	0	0
15	1	2	1	4	3	0	0
	2	5	6	8	7	0	0
16	1	2	1	4	3	0	0
	2	6	5	8	7	0	0

Advance Warning [1.1.9]

	Ph	Tm
Aux Out #1	0	0
Aux Out #2	0	0

NAME: Perrin & Willow **ID:** 284 **Configuration:** Standard File

V76.12/13
Updated 12/6/17

Prepared by:	CS	Date Installed / By:	
Checked by:	CS	Date Superseded:	

Date Printed: 3/18/20

[2.1] Coord Modes+

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX INH
Force Mode	FIXED
Flash Mode	CHANNEL

Coord Modes+ (Page 2)

FreeonSeqCh	ON
Closed Loop	OFF
External	OFF
Latch Sec Frc	OFF
Stop-in-Walk	OFF
Ped Recycle	P1256_INH
Expand Split	OFF
Easy Float	OFF
Auto Reset	ON
NTCIP Yield	+ 0

Leave Walk

Before	TIMED
After	TIMED

Intersection Name: Perrin & Willow

ID: 284

Date Printed: 3/18/2020

[2.4] Patterns

Pat#	Cyc	Off	Split	Seq
1	0	0	1	1
2	0	0	2	1
3	0	0	3	1
4	0	0	4	1
5	0	0	5	1
6	0	0	6	1
7	0	0	7	1
8	0	0	8	1
9	0	0	9	1
10	0	0	10	1
11	0	0	0	1
12	0	0	0	1
13	0	0	0	1

[2.7.1-24] Splits

Split	[2.7]	1	2	3	4	5	6	7	8	9	10
1	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
2	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
3	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
4	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
5	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
6	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
7	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
8	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
9	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
10	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
11	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
12	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
13	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON

[2.5] Transition

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	Ret Hold	Flt	Min Veh	Min Ped	MI
1	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
2	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
3	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
4	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
5	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
6	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
7	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
8	10	25	0	0	0	0	0	0	EndGRN	-	-	-	X	OFF
9	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	OFF
10	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	OFF
11		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
12	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
13		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF

[2.1] Coord Modes+

Test OpMode	0
Correction	SHRT/LNG
Maximum	MAX INH
Force Mode	FIXED
Flash Mode	CHANNEL

Coord Modes+ (Page 2)

FreeonSeqCh	ON
Closed Loop	OFF
External	OFF
Latch Sec Frc	OFF
Stop-in-Walk	OFF
Ped Recycle	P1256_INH
Expand Splt	OFF
Easy Float	OFF
Auto Reset	ON
NTCIP Yield	+ 0

Leave Walk

Before	TIMED
After	TIMED

Intersection Name: Perrin & Willow

ID: 284

City of FRESNO

Date Printed: 3/18/2020

[2.4] Patterns

Pat#	Cyc	Off	Split	Seq
20	0	0	0	1
21	0	0	0	1
22	0	0	0	1
23	0	0	0	1
24	0	0	0	1
25	0	0	0	1
26	0	0	0	1
27	0	0	0	1
28	0	0	0	1
29	0	0	0	1
30	0	0	0	1
31	0	0	0	1
32	0	0	0	1

[2.7.1-24] Splits

Split	[2.7]	1	2	3	4	5	6	7	8	9	10
20	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
21	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
22	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
23	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
24	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
25	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
26	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
27	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
28	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
29	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
30	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
31	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON
32	Split	0	0	0	0	0	0	0	0	0	0
	Crd-P										
	Mode	NON	NON	NON	NON	NON	NON	NON	NON	NON	NON

[2.5] Transition

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	Ret Hold	Flt	Min Veh	Min Ped	MI
20		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
21	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
22		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
23	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
24		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
25	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
26		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
27	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
28		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
29	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
30		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
31	0	17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF
32		17	0	0	0	0	0	0	BegGRN	-	-	-	-	OFF

[2.7.X.3] TSP Split Table

Pat#	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
1	0	0	1	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
2	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	2	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
3	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	3	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
4	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	4	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
5	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	5	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
6	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	6	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						
9 - FREE	Cyc	Off	Split	Seq	SPLITS	1	2	3	4	5	6	7	8	9	10
	0	0	9	1		0	0	0	0	0	0	0	0	0	0
					TSP - Max Reduction	0	0	0	0	0	0	0	0	0	0
					TSP - Max Extend	0	0	0	0	0	0	0	0	0	0
					Request	1	2	3	4						
					Strategy	0	0	0	0						
					TimSvcDes	0	0	0	0						
					TimEstDep	0	0	0	0						

[2.9.2.(1-8)] Strategy Tables

STRATEGY_1

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_2

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_3

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_4

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_5

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_6

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_7

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

STRATEGY_8

SvcPhases	0	0	0	0
Phs Omits	0	0	0	0
Ped Omits	0	0	0	0

Overlap 1-8 Program Parms & Parm+ [1.5.2.1] [1.5.2.8]

1	Included Ø									NORMAL	
	Modifier Ø									Grn	
	Conflict Ø									Yel	3
A	Conflict Olap									Red	1
	Conflict Ped										
2	Included Ø									NORMAL	
	Modifier Ø									Grn	
	Conflict Ø									Yel	3
B	Conflict Olap									Red	1
	Conflict Ped										
3	Included Ø									NORMAL	
	Modifier Ø									Grn	
	Conflict Ø									Yel	3
C	Conflict Olap									Red	1
	Conflict Ped										
4	Included Ø									NORMAL	
	Modifier Ø									Grn	
	Conflict Ø									Yel	3
D	Conflict Olap									Red	1
	Conflict Ped										
5	Included Ø									NORMAL	
	Modifier Ø									Grn	
	Conflict Ø									Yel	3
E	Conflict Olap									Red	1
	Conflict Ped										
6	Included Ø									NORMAL	
	Modifier Ø									Grn	
	Conflict Ø									Yel	3
F	Conflict Olap									Red	1
	Conflict Ped										
7	Included Ø									NORMAL	
	Modifier Ø									Grn	
	Conflict Ø									Yel	3
G	Conflict Olap									Red	1
	Conflict Ped										
8	Included Ø									NORMAL	
	Modifier Ø									Grn	
	Conflict Ø									Yel	3
H	Conflict Olap									Red	1
	Conflict Ped										

OLP GENERAL PARAMETERS [1.5.1]

Lock Inhibit	OFF
Conflict Lock Enable	OFF
Parent P Clearance	ON
Xtra Incl Phases	OFF
InhibitLockInterval	Always

Channel Parameters [1.8.3]

Pre Invert Rail Input	OFF

Preemption Options+ [3.Pre #.6]

Pre #	Enable	Type	Output	Pattern	Skip	Co+Pre	Flash	Max/Min
1	OFF	RAIL	TS2		OFF	OFF	OFF	MAX
2	OFF	RAIL	TS2	0	OFF	OFF	OFF	MAX
3	ON	EMERG	TS2		OFF	OFF	OFF	MAX
4	OFF	EMERG	TS2	0	OFF	OFF	OFF	MAX
5	ON	EMERG	TS2		OFF	OFF	OFF	MAX
6	ON	EMERG	TS2	0	OFF	OFF	OFF	MAX

Preemption Times [3.#.1]

Pre #	Delay	MinDura	MaxPres	MinGrn	MinWlk	PedClr	Track Grn	Min Dwell
1								
2	0	0	0	0	0	0	0	0
3		10	60	6		28		10
4	0	10	60	6	0	28	0	10
5		10	60	6		28		10
6	0	10	60	6	0	28	0	10

Preemption, Options [3.#.3]

Pre #	Lock Input	Over-ride Auto Flash	Over-ride Higher Preempt	Flash Dwell	Link
1	OFF	OFF	OFF	ON	
2	OFF	OFF	OFF	OFF	0
3	OFF	OFF	OFF	OFF	
4	OFF	OFF	OFF	OFF	0
5	OFF	OFF	OFF	OFF	
6	OFF	OFF	OFF	OFF	0

Preemption, Times+ [3.#.4]

Pre No.	Extend Dwell	Return Max	Ped Clr	Yel	Red
1					
2	0	0	0	0	0
3		20	10	3.9	2
4	0	20	10	3.9	2
5		20	10	3.9	2
6	0	20	10	3.9	2

Pre 1 = RR1
Pre 2 = RR2
Pre 3 = EVA
Pre 4 = EVB
Pre 5 = EVC
Pre 6 = EVD

Prog Parms+ (MM>1>5>2>X>3)

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

OverlapB+: 1-A

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

OverlapB+: 2-B

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

OverlapB+: 3-C

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

OverlapB+: 4-D

Leading Green	OFF	FYA MCE Disable	OFF
Transit Input	0	FYA Skip Red	OFF
FYA Delay Time	0	FYA AfterPreempt	OFF
Ped Call Clear	OFF		
Ped ClearTime	0	FYA ImmedReturn	OFF
Green Ext Inh	0	0 0 0 0 0	

Phases [3.#.2] - set the Dwell Phases

Pre #	Column	1	2	3	4	5	6	7	8	9	10
1	Dwell Veh										
	Peds										
2	Dwell Veh										
	Peds										
3	Dwell Veh	2	5								
	Peds										
4	Dwell Veh										
	Peds										
5	Dwell Veh	6	1								
	Peds										
6	Dwell Veh	8									
	Peds										

Phases [3.#.2] - Trk Veh

Pre #	Phases			
1				
2				
3				
4				
5				
6				

Exit Phases [3.#.2]

No.	Exit Phase			
1				
2				
3	2	5		
4				
5	1	6		
6	8			

Overlaps+ [3.#.5]

Pre #		Preempt Overlaps +									
1	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
2	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
3	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
4	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
5	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										
6	Track	0	0	0	0	0	0	0	0	0	0
	Dwell										

City of FRESNO

ID: 284 **Name:** Perrin & Willow **Date Printed:** 3/18/2020

CHANNEL SETTINGS [1.8] plus UNIT PARAMETERS [1.2.1]

CHANNEL SETTINGS [1.8.1]

Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Phase / Olap #	1	2	3	4	5	6	7	8	1	2	3	4	2	4	6	8
Channel Type	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	OLP	OLP	OLP	OLP	PED	PED	PED	PED
Channel Flash	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	DRK	DRK	DRK	DRK
Flash 1-2 Hertz		X		X		X		X								
	Page 1								Page 2							

Chan Settings [1.8.2]

17	18	19	20	21	22	23	24
VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH
DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK

CHANNEL PARMETERS [1.8.3]

CH 17-24 Mapping:	DEFAULT
D-Conn Mapping:	NONE
Invert Rail Inputs:	OFF
C1-C11-ABC IO Mode:	USER

IO PARAMETERS [1.8.6]

C1-C11-ABC IO Mode:	USER
D-Conn Mapping:	NONE
T & F BIU Mapping	DEFAULT
Invert Rail Inputs:	OFF
EVP Ped Confirm	OFF

CHANNELS+ [1.8.4]

Channel	*1*	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15*	*16*
Flash Green	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Flash Red	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Flash Yellow	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Inh Red Fl in Preempt	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Olap Ovrd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Override Type	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ID: 284 **NAME:** Perrin & Willow

I/O LOGIC [1.8.7]

Prt Date: 3/18/2020

Row#	Result			Operand_1					Operand_2					Operand_3					Timer	
	I/O	Fcn	=	Inv	Src	I/0	Fun	Logic Func	Inv	Src	I/0	Fun	Logic Func	Inv	Src	I/0	Fun	Logic Func	Dly	Sec
1	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
2	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
3	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
4	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
5	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
6	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
7	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
8	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
9	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0
10	I	0	=	-	0	I	OFF	----	-	0	I	OFF	----	-	0	I	OFF	----	DLY	0

Ped Parms (MM>5>4)

Det#	Call	No Act	Max Pres	Err Cnt
1	0	0	0	0
2	2	0	0	0
3	0	0	0	0
4	4	0	0	0
5	0	0	0	0
6	6	0	0	0
7	0	0	0	0
8	8	0	0	0

Veh Par 1-32 [5.1]											Vehicle Options 1-32 [5.2]									Parameters+ 1-32 [5.3]								Info Only	
Det #	Input Slot	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time	Det #	Call	Ext	Que	Add Init	Red Lock	Yell Lock	occ	vol	Det #	Occupancy G	Y	R	Delay 1	2	Type	Src	Dir	Det #
1	1I1U	1					0	0	0	255	1	X	X	-	-	-	-	X	X	1	X	X	-			NORM		NBL1	1
2	2I2U	2	0	0	0	0	0	0	0	255	2	-	X	-	-	-	-	X	X	2	X	X	-	0	0	NORM	0		2
3	2I2L	2	0	0	2	0	0	0	0	255	3	X	-	-	-	-	-	X	X	3	X	X	-	0	0	STOPB	0		3
4	2I3U	2	0	0	2	0	0	0	0	255	4	X	-	-	-	-	-	X	X	4	X	X	-	0	0	STOPB	0	SBT3	4
5	2I3L	2	0	0	2	0	0	0	0	255	5	X	-	-	-	-	-	X	X	5	X	X	-	0	0	STOPB	0	SBR1	5
6	2I4U	2	0	0	2	0	0	0	0	255	6	X	-	-	-	-	-	X	X	6	X	X	-	0	0	STOPB	0	SBT1	6
7	3I5U	8					0	0	0	255	7	X	X	-	-	-	-	X	X	7	X	X	-			NORM		EBL1	7
8	4I6U	4	0	0	0	0	0	0	0	255	8	-	X	-	-	-	-	X	X	8	X	X	-	0	0	NORM	0		8
9	4I6L	4	0	0	2	0	0	0	0	255	9	X	-	-	-	-	-	X	X	9	X	X	-	0	0	STOPB	0		9
10	4I7U	4	0	0	2	0	0	0	0	255	10	X	-	-	-	-	-	X	X	10	X	X	-	0	0	STOPB	0		10
11	4I7L	4		15	2		0	0	0	255	11	X	-	-	-	-	-	X	X	11	X	X	-			STOPB			11
12	4I8U	4			2		0	0	0	255	12	X	-	-	-	-	-	X	X	12	X	X	-			STOPB			12
13	1I9U	1	0	0	0	0	0	0	0	255	13	X	X	-	-	-	-	X	X	13	X	X	-	0	0	NORM	0		13
14	3I9L	8	0	0	0	0	0	0	0	255	14	X	X	-	-	-	-	X	X	14	X	X	-	0	0	NORM	0		14
15	5J1U	5	0	0	0	0	0	0	0	255	15	X	X	-	-	-	-	X	X	15	X	X	-	0	0	NORM	0	SBL1	15
16	6J2U	6					0	0	0	255	16	-	X	-	-	-	-	X	X	16	X	X	-			NORM			16
17	6J2L	6			2		0	0	0	255	17	X	-	-	-	-	-	X	X	17	X	X	-			STOPB			17
18	6J3U	6			2		0	0	0	255	18	X	-	-	-	-	-	X	X	18	X	X	-			STOPB		NBT3	18
19	6J3L	6			2		0	0	0	255	19	X	-	-	-	-	-	X	X	19	X	X	-			STOPB		NBR1	19
20	6J4U	6			2		0	0	0	255	20	X	-	-	-	-	-	X	X	20	X	X	-			STOPB		NBT1	20
21	7J5U	7					0	0	0	255	21	X	X	-	-	-	-	X	X	21	X	X	-			NORM			21
22	8J6U	8	0	0	0	0	0	0	0	255	22	-	X	-	-	-	-	X	X	22	X	X	-	0	0	NORM	0		22
23	8J6L	8	0	0	2	0	0	0	0	255	23	X	-	-	-	-	-	X	X	23	X	X	-	0	0	STOPB	0		23
24	8J7U	8	0	0	2	0	0	0	0	255	24	X	-	-	-	-	-	X	X	24	X	X	-	0	0	STOPB	0		24
25	8J7L	8	0	15	2	0	0	0	0	255	25	X	-	-	-	-	-	X	X	25	X	X	-	0	0	STOPB	0	EBR1	25
26	8J8U	8	0	0	2	0	0	0	0	255	26	X	-	-	-	-	-	X	X	26	X	X	-	0	0	STOPB	0	EBT1	26
27	5J9U	5					0	0	0	255	27	X	X	-	-	-	-	X	X	27	X	X	-			NORM			27
28	7J9L	7					0	0	0	255	28	X	X	-	-	-	-	X	X	28	X	X	-			NORM			28
29	2I11U	2	0	0	2	0	0	0	0	255	29	X	-	-	-	-	-	X	X	29	X	X	-	0	0	STOPB	0		29
30	4I11L	4	0	15	2	0	0	0	0	255	30	X	-	-	-	-	-	X	X	30	X	X	-	0	0	STOPB	0		30
31	6J11U	6			2		0	0	0	255	31	X	-	-	-	-	-	X	X	31	X	X	-			STOPB			31
32	8J11L	8		15	2		0	0	0	255	32	X	-	-	-	-	-	X	X	32	X	X	-			STOPB			32
33	1I1L	1	0	0	0	0	0	0	0	255	33	X	X	-	-	-	-	X	X	33	X	X	-	0	0	NORM	0	NBL2	33
34	2I4L	2			2		0	0	0	255	34	X	-	-	-	-	-	X	X	34	X	X	-			STOPB		SBT2	34
35	3I5L	8	0	0	0	0	0	0	0	255	35	X	X	-	-	-	-	X	X	35	X	X	-	0	0	NORM	0	EBL2	35
36	4I8L	4			2		0	0	0	255	36	X	-	-	-	-	-	X	X	36	X	X	-			STOPB			36
37	5J1L	5	0	0	0	0	0	0	0	255	37	X	X	-	-	-	-	X	X	37	X	X	-	0	0	NORM	0	SBL2	37
38	6J4L	6			2		0	0	0	255	38	X	-	-	-	-	-	X	X	38	X	X	-			STOPB		NBT2	38
39	7J5L	7	0	0	0	0	0	0	0	255	39	X	X	-	-	-	-	X	X	39	X	X	-	0	0	NORM	0		39
40	8J8L	8			2		0	0	0	255	40	X	-	-	-	-	-	X	X	40	X	X	-			STOPB			40
41	4I10U	2					0	0	0	255	41	-	X	-	-	-	-	X	X	41	X	X	-			NORM			41
42	4I10L	2					0	0	0	255	42	-	X	-	-	-	-	X	X	42	X	X	-			NORM			42
43	8J10U	6					0	0	0	255	43	-	X	-	-	-	-	X	X	43	X	X	-			NORM			43
44	8J10L	6					0	0	0	255	44	-	X	-	-	-	-	X	X	44	X	X	-			NORM			44

ID: 284 **Name:** Perrin & Willow

Vol/Occ Period 0 Seconds 5 Minutes

3/18/2020

Alt# 1 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 2 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 3 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 1 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø		0		0		0		0
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Entry	-	-	-	-	-	-	-	-
Enabl SimGap	-	-	-	-	-	-	-	-
Guar Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1		0		0		0		0

Alt# 2 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø		0		0		0		0
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Enrty	-	-	-	-	-	-	-	-
Enabl SimGap	-	-	-	-	-	-	-	-
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1		0		0		0		0

Alt# 3 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø		0		0		0		0
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Enrty	-	-	-	-	-	-	-	-
Enabl SimGap	-	-	-	-	-	-	-	-
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1		0		0		0		0

Alt# 4 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø		0		0		0		0
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Entry	-	-	-	-	-	-	-	-
Enabl SimGap	-	-	-	-	-	-	-	-
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1		0		0		0		0

Alternate Tables [2.6]

Pat#	POpt	PTime	DetGrp	Call/Inh	Olp Off 1	2	3	4	5	6	7	8	ASC	CNA1	Max2	Dia
1	0	0	0	0									0	Off		DFT
2													0	Off		DFT
3	0	0	0	0									0	Off		DFT
4													0	Off		DFT
5	0	0	0	0									0	Off		DFT
6													0	Off		DFT
7	0	0	0	0									0	Off		DFT
8													0	Off		DFT
9	0	0	0	0									0	Off		DFT
10													0	Off		DFT
11	0	0	0	0									0	Off		DFT
12													0	Off		DFT
13	0	0	0	0									0	Off		DFT
14													0	Off		DFT
15	0	0	0	0									0	Off		DFT
16													0	Off		DFT
17	0	0	0	0									0	Off		DFT
18													0	Off		DFT
19	0	0	0	0									0	Off		DFT
20													0	Off		DFT
21	0	0	0	0									0	Off		DFT
22													0	Off		DFT
23	0	0	0	0									0	Off		DFT
24													0	Off		DFT

Time Base Parameters [4.6]

Daylight Savings Time	ENABLE	
Time Base Sync Ref	0	
GMT Offset	-	8
Daylight Savings	**Mon**	**Week**
Spring	3	2
Fall	11	1

NOTE: % and MI parameters are not used and are not shown above.

City of FRESNO

NAME: Perrin & Willow

3/18/2020 **ID:** 284

Annual Schedule [4.3]

Schedule	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	Day Plan
1	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		1
2	X	X	X	X	X	X	X	X	X	X	X	X							X	2
3	X	X	X	X	X	X	X	X	X	X	X	X	X							3
4											X						X			4
5																				1
6																				1
7																				1
8																				1
9																				1
10																				1
11																				1
12																				1
13																				1
14																				1
15																				1
16																				1
17																				1
18																				1

(Columns J–D: Month; S–S: Day of Week)

Date

Schedule	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NAME: **Perrin & Willow**

ID No. **284**

DAY PLANS [4.4]

Plan 1				Plan 2				Plan 3				Plan 4				Plan 5			
Evt	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act
1		**1**	**54**	1		**1**	**54**	1		**1**	**54**	1	**0**	**1**	**54**	1			
2	0	0	0	2	0	0	0	2	0	0	0	2	**0**	0	0	2	0	0	0
3				3				3				3	**0**			3			
4	0	0	0	4	0	0	0	4	0	0	0	4	**0**	0	0	4	0	0	0
5				5				5				5	**0**			5			
6	0	0	0	6	0	0	0	6	0	0	0	6	**0**	0	0	6	0	0	0
7				7				7				7	**0**			7			
8	0	0	0	8	0	0	0	8	0	0	0	8	**0**	0	0	8	0	0	0
9				9				9				9	**0**			9			
10	0	0	0	10	0	0	0	10	0	0	0	10	**0**	0	0	10	0	0	0

Plan 6				Plan 7				Plan 8				Plan 9				Plan 10			
Evt	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act	*Evt*	Hour	Min	Act
1				1				1				1				1			
2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0	2	0	0	0
3				3				3				3				3			
4	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0	4	0	0	0
5				5				5				5				5			
6	0	0	0	6	0	0	0	6	0	0	0	6	0	0	0	6	0	0	0
7				7				7				7				7			
8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0
9				9				9				9				9			
10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0

#	Alarm	Ev	Alr
1	Power Up Alarm.	X	X
2	Stop Timing	X	X
3	Cabinet Door Activation	-	-
4	Coordination Failure	X	X
5	External Alarm # 1	-	-
6	External Alarm # 2	-	-
7	External Alarm # 3	-	-
8	External Alarm # 4	-	-
9	Closed Loop Disabled	-	-
10	External Alarm # 5	-	-
11	External Alarm # 6	-	-
12	Manual Control Enable	X	X
13	Coord Free Input	-	-
14	Local Flash Input	X	X
15	CMU/MMU Flash Input	-	-
16	MMU Fault	X	X
17	Cycle Fault	X	-
18	Cycle Failure	X	-
19	Coordination Fault	X	X
20	Controller Fault	X	X
25	EEPROM CRC Fault	X	X
30	Coord Diagnostic Fault	X	X
37	Download Request	X	X
38	Pattern Change	-	-
49	Preempt 1 Input	X	X
50	Preempt 2 Input	X	X
51	Preempt 3 Input	X	X
52	Preempt 4 Input	X	X
53	Preempt 5 Input	X	X
54	Preempt 6 Input	X	X
55	Preempt 7 Input	-	-
56	Preempt 8 Input	-	-
57	Preempt 9 Input	-	-
58	Preempt 10 Input	-	-
59	EEPROM Compare Fault	X	X
60	Coordination Failure	X	X
63	TSP Active Trigger	-	-
73	Controller Access	X	X
81	FIO Changed Status	X	X

#1 Bus Preempt

		Times		Prior. Phases			
Enable	OFF	Min	0	0	0	0	0
Coor+Pre	OFF	Max	0	---TSP---			
Lock Mode	MAX	Lock	0	Headway	0		
No Skip	OFF	Alt Table	0	GrpLock	OFF		
Qjump	OFF	HoldDwell	#N/A	FreeMod	OFF		

#2 Bus Preempt

		Times		Prior. Phases			
Enable	OFF	Min	0	0	0	0	0
Coor+Pre	OFF	Max	0	---TSP---			
Lock Mode	MAX	Lock	0	Headway	0		
No Skip	OFF	Alt Table	0	GrpLock	OFF		
Qjump	OFF	HoldDwell	#N/A	FreeMod	OFF		

#3 Bus Preempt

		Times		Prior. Phases			
Enable	OFF	Min	0	0	0	0	0
Coor+Pre	OFF	Max	0	---TSP---			
Lock Mode	MAX	Lock	0	Headway	0		
No Skip	OFF	Alt Table	0	GrpLock	OFF		
Qjump	OFF	HoldDwell	#N/A	FreeMod	OFF		

#4 Bus Preempt

		Times		Prior. Phases			
Enable	OFF	Min	0	0	0	0	0
Coor+Pre	OFF	Max	0	---TSP---			
Lock Mode	MAX	Lock	0	Headway	0		
No Skip	OFF	Alt Table	0	GrpLock	OFF		
Qjump	OFF	HoldDwell	#N/A	FreeMod	OFF		

I/O INPUT TABLE

	1	2	3	4	5	6	7	8
1	2	16	8	22	3	17	9	23
2	6	20	12	26	198	199	30	31
3	15	1	21	7	27	13	28	14
4	189	189	189	189	4	18	10	24
5	130	134	132	136	200	201	202	203
6	32	5	19	11	25	29	208	207
7	33	34	35	36	37	38	39	40
8	41	42	43	44	189	189	189	189

ACTION Table [4.5]

Act	Pat#	A1	A2	A3	S1	S2	S3	S4	S5	S6	S7	S8	P1	P2
1	1	-	-	-	-	-	-	-	-	-	-	-	0	0
2	2	-	-	-	-	-	-	-	-	-	-	-	0	0
3	3	-	-	-	-	-	-	-	-	-	-	-	0	0
4	4	-	-	-	-	-	-	-	-	-	-	-	0	0
5	5	-	-	-	-	-	-	-	-	-	-	-	0	0
6	6	-	-	-	-	-	-	-	-	-	-	-	0	0
7	7	-	-	-	-	-	-	-	-	-	-	-	0	0
8	8	-	-	-	-	-	-	-	-	-	-	-	0	0
9	9	-	-	-	-	-	-	-	-	-	-	-	0	0
10	10	-	-	-	-	-	-	-	-	-	-	-	0	0
11	11	-	-	-	-	-	-	-	-	-	-	-	0	0
12	12	-	-	-	-	-	-	-	-	-	-	-	0	0
13	13	-	-	-	-	-	-	-	-	-	-	-	0	0
14	14	-	-	-	-	-	-	-	-	-	-	-	0	0
15	15	-	-	-	-	-	-	-	-	-	-	-	0	0
16	0	-	-	-	-	-	-	-	-	-	-	-	0	0
54	254	-	-	-	-	-	-	-	-	-	-	-	0	0
55	0	-	-	-	-	-	-	-	-	-	-	-	0	0

Alarm Parameters [1.6.7.1]

Pattern Events:	ON
Local Txmt Alarms:	OFF
Reassign User Alarm #1 In (5):	0
Reassign User Alarm #2 In (6):	0
Preempt Events:	ON

City of FRESNO

Date Printed
3/18/2020

ID: 284 **Name:** Perrin & Willow

I/O Inputs - 1.8.9.1.5

C-1 PIN	I/O Source	Function	Input Name
39	I1-1	2	Veh Det 2
40	I1-2	16	Veh Det 16
41	I1-3	8	Veh Det 8
42	I1-4	22	Veh Det 22
43	I1-5	3	Veh Det 3
44	I1-6	17	Veh Det 17
45	I1-7	9	Veh Det 9
46	I1-8	23	Veh Det 23
47	I2-1	6	Veh Det 6
48	I2-2	20	Veh Det 20
49	I2-3	12	Veh Det 12
50	I2-4	26	Veh Det 26
51	I2-5	198	Pre 1 In
52	I2-6	199	Pre 2 In
53	I2-7	30	Veh Det 30
54	I2-8	31	Veh Det 31
55	I3-1	15	Veh Det 15
56	I3-2	1	Veh Det 1
57	I3-3	21	Veh Det 21
58	I3-4	7	Veh Det 7
59	I3-5	27	Veh Det 27
60	I3-6	13	Veh Det 13
61	I3-7	28	Veh Det 28
62	I3-8	14	Veh Det 14
63	I4-5	4	Veh Det 4
64	I4-6	18	Veh Det 18
65	I4-7	10	Veh Det 10
66	I4-8	24	Veh Det 24
67	I5-1	130	Ped Call 2
68	I5-2	134	Ped Call 6
69	I5-3	132	Ped Call 4
70	I5-4	136	Ped Call 8
71	I5-5	200	Pre 3 In
72	I5-6	201	Pre 4 In
73	I5-7	202	Pre 5 In
74	I5-8	203	Pre 6 In
75	I6-1	32	Veh Det 32
76	I6-2	5	Veh Det 5
77	I6-3	19	Veh Det 19
78	I6-4	11	Veh Det 11
79	I6-5	25	Veh Det 25
80	I6-6	29	Veh Det 29
81	I6-7	208	Local Flash
82	I6-8	207	Comp StopTm

I/O OUTPUTS - 1.8.9.2.5

C-1 PIN	I/O Source	Function	Output Name
1	Logic Grd		
2	O1-1	14	Red Ch 14
3	O1-2	62	Grn Chan 14
4	O1-3	4	Red Ch 4
5	O1-4	28	Yel Chan 4
6	O1-5	52	Grn Chan 4
7	O1-6	3	Red Ch 3
8	O1-7	27	Yel Chan 3
9	O1-8	51	Grn Chan 3
10	O2-1	13	Red Ch 13
11	O2-2	61	Grn Chan 13
12	O2-3	2	Red Ch 2
13	O2-4	26	Yel Chan 2
14	Logic Grd		
15	O2-5	50	Grn Chan 2
16	O2-6	1	Red Ch 1
17	O2-7	25	Yel Chan 1
18	O2-8	49	Grn Chan 1
19	O3-1	16	Red Ch 16
20	O3-2	64	Grn Chan 16
21	O3-3	8	Red Ch 8
22	O3-4	32	Yel Chan 8
23	O3-5	56	Grn Chan 8
24	O3-6	7	Red Ch 7
25	O3-7	31	Yel Chan 7
26	O3-8	55	Grn Chan 7
27	O4-1	15	Red Ch 15
28	O4-2	63	Grn Chan 15
29	O4-3	6	Red Ch 6
30	O4-4	30	Yel Chan 6
31	O4-5	54	Grn Chan 6
32	O4-6	5	Red Ch 5
33	O4-7	29	Yel Chan 5
34	O4-8	53	Grn Chan 5
35	O5-1	37	Yel Chan 13
36	O5-2	39	Yel Chan 15
37	O5-3	38	Yel Chan 14
38	O5-4	40	Yel Chan 16
100	O5-5	42	Yel Chan 18
101	O5-6	41	Yel Chan 17
102	O5-7	115	Not Used
103	O5-8	114	Watchdog

C-1 PIN	I/O Source	Function	Output Name
83	O6-1	18	Red Ch 18
84	O6-2	66	Grn Chan 18
85	O6-3	12	Red Ch 12
86	O6-4	36	Yel Chan 12
87	O6-5	60	Grn Chan 12
88	O6-6	11	Red Ch 11
89	O6-7	35	Yel Chan 11
90	O6-8	59	Grn Chan 11
91	O7-1	17	Red Ch 17
92	Logic Grd		
93	O7-2	65	Grn Chan 17
94	O7-3	10	Red Ch 10
95	O7-4	34	Yel Chan 10
96	O7-5	58	Grn Chan 10
97	O7-6	9	Red Ch 9
98	O7-7	33	Yel Chan 9
99	O7-8	57	Grn Chan 9

I/O Outputs - 1.8.9.2.5
C-11 OUTPUTS

1	O8-1	115	Not Used
2	O8-2	115	Not Used
3	O8-3	115	Not Used
4	O8-4	115	Not Used

I/O Inputs - 1.8.9.1.5
C-11 INPUTS

15	I7-1	33	Veh Det 33
16	I7-2	34	Veh Det 34
17	I7-3	35	Veh Det 35
18	I7-4	36	Veh Det 36
19	I7-5	37	Veh Det 37
20	I7-6	38	Veh Det 38
21	I7-7	39	Veh Det 39
22	I7-8	40	Veh Det 40
23	I8-1	41	Veh Det 41
24	I8-2	42	Veh Det 42
25	I8-3	43	Veh Det 43
26	I8-4	44	Veh Det 44
27	I8-5	189	Unused
28	I8-6	189	Unused
29	I8-7	189	Unused
30	I8-8	189	Unused

City of FRESNO

ID: 284

NAME: Perrin & Willow

Date Printed: 3/18/2020

ID Number: 284

LOCATION: Perrin & Willow

City of Fresno
332 Cabinet
44 Detector Plus Setup

	DETECTOR ASSIGNMENTS											ISOLATORS		
"I"	I1	I2	I3	I4	I5	I6	I7	I8	I9	I10	I11	I12	I13	I14
UPPER	Ph 1 Call&Ext T2-1&2 C1-56 Det 1 NBL1	Ph 2 Ext T2-5&6 C1-39 Det 2 SB Far	Ph 2 Call&TP3 T2-9&10 C1-63 Det 4 SB Mid	Ph 2 Call&TP3 T4-1&2 C1-47 Det 6 SBT1	Ph 3 Call&Ext T4-5&6 C1-58 Det 7 EBL1	Ph 4 Ext T4-9&10 C1-41 Det 8 WB Far	Ph 4 Call&TP3 T6-1&2 C1-65 Det 10 WB Mid	Ph 4 Call&TP3 T6-5&6 C1-49 Det 12 WBT1	Ph 1 Call&Ext T6-9&10 C1-60 Det 13 NBLt Bk	Ph 2/4 Ext T10-5&6 C11-23 Det 41	Ph 2 Call&Ext T8-1 C1-80 Det 29 BIKE	Ph 2 PPB T8-4 C1-67	Ph 6 PPB T8-7 C1-68	FLASH SENSE T8-10 C1-81
LOWER	Ph 1 Call&Ext T2-3&4 C11-15 Det 33 NBL2	Ph 2 Call&TP3 T2-7&8 C1-43 Det 3 SB Bk	Ph 2 Call&Ext T2-11&12 C1-76 Det 5 SBRt	Ph 2 Call&TP3 T4-3&4 C11-16 Det 34 SBT2	Ph 3 Call&Ext T4-7&8 C11-17 Det 35 EBL2	Ph 4 Call&TP3 T4-11&12 C1-45 Det 9 WB Bk	Ph 4 Call&Ext T6-3&4 C1-78 Det 11 WBRt	Ph 4 Call&TP3 T6-7&8 C11-18 Det 36 WBT2	Ph 3 Call&Ext T6-11&12 C1-62 Det 14 EBLt Bk	Ph 2/4 Ext T10-7&8 C11-24 Det 42	Ph 4 Call&Ext T8-2 C1-53 Det 30 BIKE	Ph 4 PPB T8-5 C1-69	Ph 8 PPB T8-8 C1-70	STOP TIMING T8-11 C1-82
"J"	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	J13	J14
UPPER	Ph 5 Call&Ext T3-1&2 C1-55 Det 15 SBL1	Ph 6 Ext T3-5&6 C1-40 Det 16 NB Far	Ph 6 Call&TP3 T3-9&10 C1-64 Det 18 NB Mid	Ph 6 Call&TP3 T5-1&2 C1-48 Det 20 NBT1	Ph 7 Call&Ext T5-5&6 C1-57 Det 21 WBL1	Ph 8 Ext T5-9&10 C1-42 Det 22 EB Far	Ph 8 Call&TP3 T7-1&2 C1-66 Det 24 EB Mid	Ph 8 Call&TP3 T7-5&6 C1-50 Det 26 EBT1	Ph 5 Call&Ext T7-9&10 C1-59 Det 27 SBLt Bk	Ph 6/8 Ext T10-9&10 C11-25 Det 43	Ph 6 Call&Ext T9-1 C1-54 Det 31 BIKE	EMER A Ph 2 + 5 T9-4 C1-71	EMER B Ph 4 + 7 T9-5 C1-72	RR1 FLASH T9-10 C1-51
LOWER	Ph 5 Call&Ext T3-3&4 C11-19 Det 37 SBL2	Ph 6 Call&TP3 T3-7&8 C1-44 Det 17 NB Bk	Ph 6 Call&Ext T3-11&12 C1-77 Det 19 NBRt	Ph 6 Call&TP3 T5-3&4 C11-20 Det 38 NBT2	Ph 7 Call&Ext T5-7&8 C11-21 Det 39 WBL2	Ph 8 Call&TP3 T5-11&12 C1-46 Det 23 EB Bk	Ph 8 Call&Ext T7-3&4 C1-79 Det 25 EBRt	Ph 8 Call&TP3 T7-7&8 C11-22 Det 40 EBT2	Ph 7 Call&Ext T7-11&12 C1-61 Det 28 WBLt Bk	Ph 6/8 EXT T10-11&12 C11-26 Det 44	Ph 8 Call&Ext T9-2 C1-75 Det 32 BIKE	EMER C Ph 1 + 6 T9-7 C1-73	EMER D Ph 3 + 8 T9-8 C1-74	RR2 LTD OP T9-11 C1-52

COMMENTS:

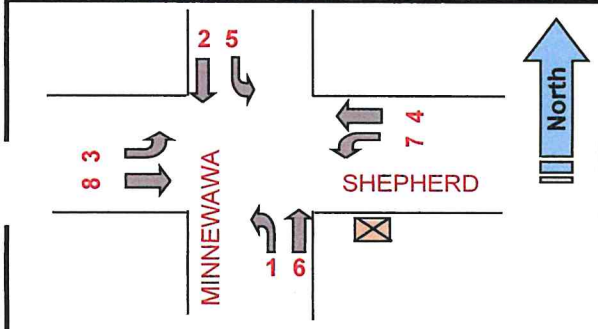
TIMING UPDATES AND MODIFICATIONS

ID: 284 **NAME:** Perrin & Willow

DATE	CHANGES MADE	ATMS or CABINET	BY
3/18/2020	Reassign DET 14 from P3 to P8		CS

CITY of CLOVIS

Movement	NL	ST	EL	WT	SL	NT	WL	ET
Times [1.1.1]	1	2	3	4	5	6	7	8
Min Green	11	8	11	9	11	8	11	9
Gap, Ext	2	4	2	4.4	2	3.2	2	4.2
Max 1	25	40	25	40	25	40	25	40
Max 2	0		0			0		0
Yel Clearance	3.0	5.0	3.0	5.0	3.0	5.0	3.0	5.0
Red Clearance	1	1	1	1	1	1	1	1
Walk	0	7	0	7		7		7
Ped Clearance	0	25	0	23		25		25
Red Revert	1	1	1	1	1	1	1	1
Add Initial	0		0			0		0
Max Initial	0		0			0		0
Time B4 Reduct	0	19	0	18		19		18
Cars B4 Reduct	0		0			0		0
Time To Reduce	0	11	0	12		11		12
Reduce By	0		0			0		0
Min Gap	2	2.5	2	2.8	2	2	2	2.6
DyMaxLim	31	46	31	46	31	46	31	46
Max Step	6	6	6	6	6	6	6	6
Options [1.1.2]	1	2	3	4	5	6	7	8
Enable	X	X	X	X	X	X	X	X
Min Recall								
Max Recall								
Ped Recall								
Soft Recall				X				X
Lock Calls								
Auto Flash Entry								
Auto Flash Exit								
Dual Entry		X		X		X		X
Enable Simul Gap	X	X	X	X	X	X	X	X
Gaurantee Passage								
Rest In Walk								
Conditon Service								
Non-Actuated 1								
Non-Actuated 2								
Add Init Calc								



Phase Options+ [1.1.3]

Options+	1	2	3	4	5	6	7	8
Reservice								
PedClr Thru Yel								
SkipRed-NoCall								
Red Rest								
Max II								
*Max III								
Max Inhibit								
Ped Delay								
Red Rest on Gap								
Conflicting Phase	0	0	0	0	0	0	0	0
Grn/Ped Delay								
Omit Yel, Yel P	0	0	0	0	0	0	0	0
Ped Out/Olp Ped								
StartYel, Next P	0	0	0	0	0	0	0	0
*StartupVehCall	1	2	3	4	5	6	7	8
*StartupPedCall								

Phase Concurrency [1.1.4]

Phase	Ring	StartUp	Concurrent Phases			
1	1	RED	5	6	0	0
2	1	RED	5	6	0	0
3	1	RED	7	8	0	0
4	1	GREEN	7	8	0	0
5	2	RED	1	2	0	0
6	2	RED	1	2	0	0
7	2	RED	3	4	0	0
8	2	GREEN	3	4	0	0
9	0	RED	0	0	0	0
10	0	RED	0	0	0	0
11	0	RED	0	0	0	0
12	0	RED	0	0	0	0

Comm Ports [6.6]

Channel	Port	Echo	Mode
Async 1	SP1	NONE	0
Async 2	SP2	NONE	0
Async 3	SP8	NONE	0
Async 4	OFF	NONE	0
Sync 1	SP5S		
Sync 2	OFF		
TS2CVM	NONE		
Opticom	NONE		
GPS	NONE		

Unit Params [1.2.1]

*Screen Size	8	Metric	OFF
Startup Flash	0	Red Revert	1
MCE Timeout	0	Auto Ped Clear	OFF
Loc Flsh Start	RSt	Display Time	30
Yellow < 3"	OFF	Tone Disable	ON
Allow Skip Yel	OFF	AudioPedTime	OFF
Start Red Tm	6	Phase Mode	STD8
*Startup Calls	OFF	CNA FreeTime	0
TOD Dimming	OFF	Diamond Mode	4Ph
ST over Prmpt	OFF	Free Ring Seq	1
Feature Profile	1	IO Mode	USER
Mx Seek TrkTm	0	Max Cyc Timer	0
Mx Seek Dwell	0	CycFlt Actn	ALARM
Prmpt/Ext Coor	EXT	Clrnc Decide	OFF
Aux Switch	STOPTM	LPAlt Srs	OFF
*InhFYA Red St	Off	*SecurityDelay	0

* - 76.12B or newer

Times+ [1.1.7]

	1	2	3	4	5	6	7	8
Walk2	0	0	0	0	0	0	0	0
BikeClr	0	0	0	0	0	0	0	0
GrnFlash	0	0	0	0	0	0	0	0
SfClrMn	0	0	0	0	0	0	0	0
SfClrNoFlsh	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

Comm [6.2]

Port	Baud Rate	FCM
1	9600	6
2	9600	6
3	1200	0
4	1200	0

Comm [6.5]

					Host IPs			
IP Address:	10	128	1	51	ATMS			
Mask:	255	255	255	0	172	26	17	230
Gateway:	10	128	1	254	SG			
Port #:	5051				0	0	0	0

Phase Seq. (2 ring) Chart [1.2.4]

Seq #	Ring	Phases					
1	1	1	2	3	4	0	0
	2	5	6	7	8	0	0
2	1	1	2	3	4	0	0
	2	6	5	7	8	0	0
3	1	2	1	3	4	0	0
	2	5	6	7	8	0	0
4	1	2	1	3	4		0
	2	6	5	7	8		0
5	1	1	2	3	4	0	0
	2	5	6	8	7	0	0
6	1	1	2	3	4	0	0
	2	6	5	8	7	0	0
7	1	2	1	3	4	0	0
	2	5	6	8	7	0	0
8	1	2	1	3	4	0	0
	2	6	5	8	7	0	0
9	1	1	2	4	3	0	0
	2	5	6	7	8	0	0
10	1	1	2	4	3	0	0
	2	6	5	7	8	0	0
11	1	2	1	4	3	0	0
	2	5	6	7	8	0	0
12	1	2	1	4	3	0	0
	2	6	5	7	8	0	0
13	1	1	2	4	3		0
	2	5	6	8	7		0
14	1	1	2	4	3	0	0
	2	6	5	8	7	0	0
15	1	2	1	4	3	0	0
	2	5	6	8	7	0	0
16	1	2	1	4	3	0	0
	2	6	5	8	7	0	0

Advance Warning [1.1.9]

	Ph	Tm
Aux Out #1	0	0
Aux Out #2	0	0

NAME: MINNEWAWA @ SHEPHERD **ID:** 299 **Configuration:** Standard File

V76.12
ATMS 1.5.45.263

Prepared by:	T. Barker	Date Installed / By:	1/10/2022
Checked by:	T. Barker	Date Superseded:	

Date Printed: 1/10/22

[2.1] Coord Modes+

Test OpMode	0
Correction	LONG
Maximum	MAX INH
Force Mode	FIXED
Flash Mode	CHANNEL

Coord Modes+ (Page 2)

FreeonSeqCh	ON
Closed Loop	OFF
External	OFF
Latch Sec Frc	OFF
Stop-in-Walk	OFF
Ped Recycle	P1256_INH
Expand Splt	OFF
Easy Float	OFF
Auto Reset	ON
NTCIP Yield	+ 0

Leave Walk

Before	TIMED
After	TIMED

Intersection Name: MINNEWAWA @ SHEPHERD

CITY OF CLOVIS

ID: 293

Date Printed: 12/2/2019

[2.4] Patterns

Pat#	Cyc	Off-Set	Split	Seq
1	0	0	1	1
2	0	0	2	1
3	0	0	3	1
4	0	0	4	1
5	0	0	5	1
6	0	0	6	1
7		0	7	1
8	0	0	8	1
9	0	0	9	1
10	0	0	10	1
30	0	0	0	1
31	0	0	0	1
32	0	0	0	1

[2.7.1-24] Splits

Split	[2.7]	1	2	3	4	5	6	7	8
1	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
2	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
3	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
4	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
5	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
6	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
7	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
8	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
9	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
10	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
30	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
31	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON
32	Split	0	0	0	0	0	0	0	0
	Crd-P								
	Mode	NON	NON	NON	NON	NON	NON	NON	NON

[2.5] Transition

Pat#	Short	Long	Dwell	No Shortway Ø				E-Yld	Offset	Ret Hold	Flt	Veh	Ped	FRC MODE
1	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
2	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
3	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
4	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
5	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
6	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
7	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
8	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
9	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
10	10	25	0	0	0	0	0	0	EndGRN	-	-	-	-	
30		17	0	0	0	0	0	0	BegGRN	-	-	-	-	
31		17	0	0	0	0	0	0	BegGRN	-	-	-	-	
32		17	0	0	0	0	0	0	BegGRN	-	-	-	-	

Overlap 1-8 Program Parms & Parm+ [1.5.2.1] [1.5.2.8]

1	Included Ø		NORMAL	
	Modifier Ø		Grn	
	Conflict Ø		Yel	3
A	Conflict Olap		Red	1
	Conflict Ped		LG	OFF
2	Included Ø		NORMAL	
	Modifier Ø		Grn	
	Conflict Ø		Yel	3
B	Conflict Olap		Red	1
	Conflict Ped		LG	OFF
3	Included Ø		NORMAL	
	Modifier Ø		Grn	
	Conflict Ø		Yel	3
C	Conflict Olap		Red	1
	Conflict Ped		LG	OFF
4	Included Ø		NORMAL	
	Modifier Ø		Grn	
	Conflict Ø		Yel	3
D	Conflict Olap		Red	1
	Conflict Ped		LG	OFF
5	Included Ø		NORMAL	
	Modifier Ø		Grn	
	Conflict Ø		Yel	3
E	Conflict Olap		Red	1
	Conflict Ped		LG	OFF
6	Included Ø		NORMAL	
	Modifier Ø		Grn	
	Conflict Ø		Yel	3
F	Conflict Olap		Red	1
	Conflict Ped		LG	OFF
7	Included Ø		NORMAL	
	Modifier Ø		Grn	
	Conflict Ø		Yel	3
G	Conflict Olap		Red	1
	Conflict Ped		LG	OFF
8	Included Ø		NORMAL	
	Modifier Ø		Grn	
	Conflict Ø		Yel	3
H	Conflict Olap		Red	1
	Conflict Ped		LG	OFF

Unit Parameters [1.2.1]

Stop Timer Over Preempt	OFF
Preempt or Ext Output	EXT
Max Seek Track Time	0
Max Seek Dwell Time	0

Channel Parameters [1.8.3]

Pre Invert Rail Input	OFF

Preemption Options+ [3.Pre #.6]

Pre #	Enable	Type	Output	Pattern	Skip	Co+Pre	Flash	Max/Min
1	ON	RAIL	TS2		OFF	OFF	OFF	MAX
2	OFF	EMERG	TS2		OFF	OFF	OFF	MAX
3	ON	EMERG	TS2		OFF	OFF	OFF	MAX
4	ON	EMERG	TS2		OFF	OFF	OFF	MAX
5	ON	EMERG	TS2		OFF	OFF	OFF	MAX
6	ON	EMERG	TS2		OFF	OFF	OFF	MAX

Preemption Times [3.#.1]

Pre #	Delay	MinDura	MaxPres	MinGrn	MinWlk	PedClr	Track Grn	Min Dwell
1								
2								
3					4	19		
4					4	18		
5					4	19		
6					4	20		

Preemption, Options [3.#.3]

Pre #	Lock Input	Over-ride Auto Flash	Over-ride Higher Preempt#	Flash Dwell	Link
1	ON	ON	OFF	ON	
2	OFF	ON	OFF	OFF	
3	OFF	OFF	OFF	OFF	
4	OFF	OFF	OFF	OFF	
5	OFF	OFF	OFF	OFF	
6	OFF	OFF	OFF	OFF	

Preemption, Times+ [3.#.4]

Pre No.	Extend Dwell	Return Max	Ped Clr	Yel	Red
1					
2					
3					
4					
5					
6					

Pre 1 = RR1
Pre 2 = RR2
Pre 3 = EVA
Pre 4 = EVB
Pre 5 = EVC
Pre 6 = EVD

Phases [3.#.2] - set the Dwell Phases

Pre #	Column	1	2	3	4	5	6	7	8	9	10
1	Dwell Veh										
	Peds										
2	Dwell Veh										
	Peds										
3	Dwell Veh	2	5								
	Peds										
4	Dwell Veh	4	7								
	Peds										
5	Dwell Veh	1	6								
	Peds										
6	Dwell Veh	3	8								
	Peds										

Phases [3.#.2] - Trk Veh

Pre #	Phases
1	
2	
3	
4	
5	
6	

Exit Phases [3.#.2]

No.	Exit Phase			
1	4	8		
2				
3	2	6		
4	4	8		
5	2	6		
6	4	8		

Overlaps+ [3.#.5]

Pre #		Preempt Overlaps +
1	Track	
	Dwell	
2	Track	
	Dwell	
3	Track	
	Dwell	
4	Track	
	Dwell	
5	Track	
	Dwell	
6	Track	
	Dwell	

Low Priority Preempts [3.X; where X = 7 thru 10]

Pre #	Enb	C+P	Lock	NoSkip	Qjump	Times: Alt Tbl	Min	Max	Lock	Priorty Phases			
7	OFF	OFF	MAX	OFF	OFF		0	0	0	0	0	0	0
8	OFF	OFF	MAX	OFF	OFF		0	0	0	0	0	0	0
9	OFF	OFF	MAX	OFF	OFF		0	0	0	0	0	0	0
10	OFF	OFF	MAX	OFF	OFF		0	0	0	0	0	0	0

Advance Times [3.x.8]

	1	2	3	4	5	6
YelChng	0	0	0	0	0	0
RedClr	0	0	0	0	0	0
TrkYelChng	0	0	0	0	0	0
TrkRedClr	0	0	0	0	0	0

OLP GENERAL PARAMETERS [1.5.1]

Lock Inhibit	OFF
Conflict Lock Enable	OFF
Parent P Clearance	OFF
Xtra Incl Phases	OFF
InhibitLockInterval	Always

PREEMPTION NOTE: Each preemption has it's own set of menus. To access each menu :

a. Press "3" for preemption

b. Then enter "Preempt number" (1 through 6 and shown as "#" in Schedules above)

c. Then enter "number of Menu item" you want to access (*1-Times, 2-Phases, 3-Options, 4-Times+, 5-Overlaps+ or 6-Options+*)

d. Once in an above menu push Escape once to go back to main preempton menu.

City of CLOVIS

Name: MINNEWAWA @ SHEP

ID: 293

Date Printed: 12/2/2019

CHANNEL SETTINGS [1.8] plus UNIT PARAMETERS [1.2.1]

CHANNEL SETTINGS [1.8.1]

Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Phase / Olap #	1	2	3	4	5	6	7	8	1	2	3	4	2	4	6	8
Channel Type	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH	OLP	OLP	OLP	OLP	PED	PED	PED	PED
Channel Flash	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	RED	DRK	DRK	DRK	DRK
Flash 1-2 Hertz		X		X		X		X								
	Page 1								Page 2							

Chan Settings [1.8.2]

17	18	19	20	21	22	23	24
VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH
DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK

CHANNEL PARMETERS [1.8.3]

CH 17-24 Mapping:	DEFAULT
D-Conn Mapping:	NONE
Invert Rail Inputs:	OFF
C1-C11-ABC IO Mode:	USER

CHANNELS+ [1.8.4]

Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Flash Red	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Flash Yellow	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Inh Red Fl in Preempt	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Olap Ovrd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

IO PARAMETERS [1.8.6]

C1-C11-ABC IO Mode:	USER
D-Conn Mapping:	NONE
T & F BIU Mapping	DEFAULT
Invert Rail Inputs:	OFF
EVP Ped Confirm	OFF

City of CLOVIS

I/O LOGIC [1.8.7]

Row#	Result		Function			OP	Function			OP	Function			OP	Timer	
	I/O	Fcn	Inv	I/0	Fcn	Logic	Inv	I/0	Fcn	Logic	Inv	I/0	Fcn	Logic	Dly	Sec
1	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0
2	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0
3	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0
4	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0
5	I	0	-	I	----	0	-	I	___	0	-	I	----	0	DLY	0
6	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0
7	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0
8	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0
9	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0
10	I	0	-	I	----	0	-	I	----	0	-	I	----	0	DLY	0

Ped Parms (MM>5>4)

Det#	Call	No Act	Max Pres	Err Cnt
1	0	0	0	0
2	2	0	5	0
3	0	0	0	0
4	4	0	5	0
5	0	0	0	0
6	6	0	5	0
7	0	0	0	0
8	8	0	5	0

Date Printed:
12/2/2019

ID: 293

Veh Par 1-32 [5.1]											Vehicle Options 1-32 [5.2]									Parameters+ 1-32 [5.3]								Info Only		
Det #	Input Slot	Call Ø	Swi Ø	Dlay	Ext	Que	No Act	Max Pres	Err Cnt	Fail Time	Det #	Call	Ext	Que	Add Init	Red Lock	Yell Lock	occ	vol	Det #	Occupancy G	Occupancy Y	Occupancy R	Delay 1	Delay 2	Type	Src	Dir	Type	Det #
1	1I1U	1					0	0	0	255	1	X	X	-	-	X	-	-	X	1	-	-	-			NORM		NBLT Front		1
2	2I2U	2	0	0.0	1.4	0	0	0	0	255	2	X	X	-	-	-	-	-	X	2	-	-	-	0	0	NORM	0	SB INT		2
3	2I2L	2	0	0.0	0.0	0	0	0	0	255	3	X	X	-	-	-	-	-	X	3	-	-	-	0	0	NORM	0	SB FAR		3
4	2I3U	2	0	10.0	0.0	0	0	0	0	255	4	X	X	-	-	-	-	-	X	4	-	-	-	0	0	NORM	0	SBRT		4
5	2I3L	2	0	0.0	2.0	0	0	0	0	255	5	X	X	-	-	-	-	-	-	5	-	-	-	0	0	NORM	0	SB BIKE		5
6	2I4U	2	0	0.0	2.0	20	0	0	0	255	6	X	-	X	-	-	-	-	X	6	-	-	-	0	0	NORM	0	SB Front		6
7	3I5U	3					0	0	0	255	7	X	X	-	-	X	-	-	X	7	-	-	-			NORM		EBLT Front		7
8	4I6U	4	0	0.0	1.5	0	0	0	0	255	8	X	X	-	-	-	-	-	X	8	-	-	-	0	0	NORM	0	WB INT		8
9	4I6L	4	0	0.0	0.0	0	0	0	0	255	9	X	X	-	-	-	-	-	X	9	-	-	-	0	0	NORM	0	WB FAR		9
10	4I7U	4	0	10.0	0.0	0	0	0	0	255	10	X	X	-	-	-	-	-	X	10	-	-	-	0	0	NORM	0	WBRT		10
11	4I7L	4			2.0		0	0	0	255	11	X	X	-	-	X	-	-	-	11	-	-	-			NORM		WB BIKE		11
12	4I8U	4			2.0	20	0	0	0	255	12	X	-	X	-	-	-	-	X	12	-	-	-			NORM		WB Front		[illegible]
13	1I9U	1	0	0.0	0.0	0	0	0	0	255	13	X	X	-	-	X	-	-	-	13	-	-	-			NORM		NBLT Loops		13
14	3I9L	3	0	0.0	0.0	0	0	0	0	255	14	X	X	-	-	X	-	-	-	14	-	-	-			NORM		EBLT Loops		14
15	5J1U	5	0	0.0	0.0	0	0	0	0	255	15	X	X	-	-	X	-	-	X	15	-	-	-			NORM		SBLT Front		15
16	6J2U	6			1.2		0	0	0	255	16	-	X	-	-	-	-	-	X	16	-	-	-			NORM		NB INT		16
17	6J2L	6			0.7		0	0	0	255	17	X	X	-	-	-	-	-	X	17	-	-	-			NORM		NB FAR		17
18	6J3U	6		10.0			0	0	0	255	18	X	X	-	-	-	-	-	X	18	-	-	-			NORM		NBRT		18
19	6J3L	6			2.0		0	0	0	255	19	X	X	-	-	X	-	-	-	19	-	-	-			NORM		NB BIKE		19
20	6J4U	6			2.0	20	0	0	0	255	20	X	-	X	-	-	-	-	X	20	-	-	-			NORM		NB Front		20
21	7J5U	7					0	0	0	255	21	X	X	-	-	X	-	-	X	21	-	-	-			NORM		WBLT Front		21
22	8J6U	8	0	0.0	1.4	0	0	0	0	255	22	X	X	-	-	-	-	-	X	22	-	-	-	0	0	NORM	0	EB INT		22
23	8J6L	8	0	0.0	0.1	0	0	0	0	255	23	X	X	-	-	-	-	-	X	23	-	-	-	0	0	NORM	0	EB FAR		23
24	8J7U	8	0	10.0	0.0	0	0	0	0	255	24	X	X	-	-	-	-	-	X	24	-	-	-	0	0	NORM	0	EBRT		24
25	8J7L	8	0	0.0	2.0	20	0	0	0	255	25	X	-	X	-	-	-	-	-	25	-	-	-	0	0	NORM	0	EB Back		25
26	8J8U	8	0	0.0	2.0	20	0	0	0	255	26	X	-	X	-	-	-	-	X	26	-	-	-	0	0	NORM	0	EB #1 Front		26
27	5J9U	5					0	0	0	255	27	X	X	-	-	X	-	-	-	27	-	-	-			NORM		SBLT Loops		27
28	7J9L	7					0	0	0	255	28	X	X	-	-	X	-	-	-	28	-	-	-			NORM		WBLT Loops		28
29	2I11U	2	0	0.0	0.0	0	0	0	0	255	29	-	-	-	-	-	-	-	-	29	-	-	-	0	0	BIKE	0	Not in Use		[illegible]
30	4I11L	4	0	0.0	0.0	0	0	0	0	255	30	-	-	-	-	-	-	-	-	30	-	-	-	0	0	BIKE	0	Not in Use		[illegible]
31	6J11U	6					0	0	0	255	31	-	-	-	-	-	-	-	-	31	-	-	-			BIKE		Not in Use		31
32	8J11L	8					0	0	0	255	32	-	-	-	-	-	-	-	-	32	-	-	-			BIKE		Not in Use		32
33	1I1L	1	0	0.0	0.0	0	0	0	0	255	33	X	X	-	-	X	-	-	X	33	-	-	-	0	0	NORM	0	Not in Use		33
34	2I4L	2			2.0	20	0	0	0	255	34	X	-	X	-	-	-	-	-	34	-	-	-			NORM		SB Back		34
35	3I5L	3	0	0	0.0	0	0	0	0	255	35	X	X	-	-	X	-	-	X	35	-	-	-	0	0	NORM	0	Not in Use		35
36	4I8L	4			2.0	20	0	0	0	255	36	X	-	X	-	-	-	-	-	36	-	-	-			NORM		WB Back		36
37	5J1L	5	0	0	0.0	0	0	0	0	255	37	X	X	-	-	X	-	-	X	37	-	-	-	0	0	NORM	0	Not in Use		37
38	6J4L	6			2.0	20	0	0	0	255	38	X	-	X	-	-	-	-	X	38	-	-	-			NORM		NB Back		38
39	7J5L	7	0	0	0.0	0	0	0	0	255	39	X	X	-	-	X	-	-	X	39	-	-	-	0	0	NORM	0	Not in Use		39
40	8J8L	8			2.0	20	0	0	0	255	40	X	-	X	-	-	-	-	X	40	-	-	-			NORM		EB #2 Front		40
41	4I10U	4					0	0	0	255	41	-	X	-	-	-	-	-	-	41	-	-	-			NORM		Not in Use		41
42	4I10L	4					0	0	0	255	42	-	X	-	-	-	-	-	-	42	-	-	-			NORM		Not in Use		42
43	8J10U	8					0	0	0	255	43	-	X	-	-	-	-	-	-	43	-	-	-			NORM		Not in Use		43
44	8J10L	8					0	0	0	255	44	-	X	-	-	-	-	-	-	44	-	-	-			NORM		Not in Use		44

ID: 299 **Name:** MINNEWAWA @ SHEPHERD

Vol/Occ Period 0 Seconds / 15 Minutes

1/10/2022

Alt# 1 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 2 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 3 Times Table [1.1.6.1]

Column#... ->	1	2	3	4	5	6	7	8
Assign Ø								
Min Grn								
Gap, Ext								
Max 1								
Max 2								
Yel Clr								
Red Clr								
Walk								
Ped Clr								

Alt# 1 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø	1	2	3	4	5	6	7	8
Lock Calls	-	-	-	-	-	-	-	-
Soft Recall	-	-	-	-	-	-	-	-
Dual Entry	-	-	-	-	-	-	-	-
Enabl SimGap	X	X	X	X	X	X	X	X
Guar Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	X	X	X	X	X	X	X	X
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1								
Conflicting Ø2								

Alt# 2 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø								
Lock Calls	X	X	X	X	X	X	X	X
Soft Recall	-	-	-	-	-	-	-	-
Dual Enrty	-	-	-	-	-	-	-	-
Enabl SimGap	X	X	X	X	X	X	X	X
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1								
Conflicting Ø2								

Alt# 3 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø								
Lock Calls	X	X	X	X	X	X	X	X
Soft Recall	-	-	-	-	-	-	-	-
Dual Enrty	-	-	-	-	-	-	-	-
Enabl SimGap	X	X	X	X	X	X	X	X
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1								
Conflicting Ø2								

Alt# 4 Options Table [1.1.6.2]

Column # ->	1	2	3	4	5	6	7	8
Assign Ø								
Lock Calls	X	X	X	X	X	X	X	X
Soft Recall	-	-	-	-	-	-	-	-
Dual Entry	-	-	-	-	-	-	-	-
Enabl SimGap	X	X	X	X	X	X	X	X
Gaur Passage	-	-	-	-	-	-	-	-
Rest In Walk	-	-	-	-	-	-	-	-
Cond Service	-	-	-	-	-	-	-	-
Reservice	-	-	-	-	-	-	-	-
Non-Act 1	-	-	-	-	-	-	-	-
Red Rest	-	-	-	-	-	-	-	-
Max2	-	-	-	-	-	-	-	-
Ped Delay	-	-	-	-	-	-	-	-
Conflicting Ø1								
Conflicting Ø2								

Alternate Tables [2.6]

Pat#	POpt	PTime	DetGrp	Call/Inh	Olp Off 1 2 3 4 5 6 7 8	ASC	CNA1	Max2	Dia
1						0	Off		DFT
2						0	Off		DFT
3						0	Off		DFT
4						0	Off		DFT
5						0	Off		DFT
6						0	Off		DFT
7						0	Off		DFT
8						0	Off		DFT
9						0	Off		DFT
10	1					0	Off		DFT
11						0	Off		DFT
12						0	Off		DFT
13						0	Off		DFT
14						0	Off		DFT
15						0	Off		DFT
16						0	Off		DFT
17						0	Off		DFT
18						0	Off		DFT
19						0	Off		DFT
20						0	Off		DFT
21						0	Off		DFT
22						0	Off		DFT
23						0	Off		DFT
24						0	Off		DFT

Time Base Parameters [4.6]

Daylight Savings Time	DISABLE	
Time Base Sync Ref	0	
GMT Offset	-	0
Daylight Savings	**Mon**	**Week**
Spring	3	2
Fall	11	1

City of CLOVIS

NAME: MINNEWAWA @ SHEPHERD

12/2/2019 **ID:** 293

Annual Schedule [4.3]

	Month												Day of Week							Date																						Day	Link
	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Plan	To
1	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	0
2	X	X	X	X	X	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2	0
3	X	X	X	X	X	X	X	X	X	X	X	X	X							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3	0
4																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0
5																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0
6																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0
7																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0
8																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0
9																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0
10																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0
11																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0
12																				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0

DAY PLANS [4.4]

Plan 1

Evt	Hour	Min	Act
1		1	10
2	5	30	54
3	6	30	54
4	9		54
5	14	45	54
6	19		54
7	23		10
8			

Plan 2

Evt	Hour	Min	Act
1		1	10
2	5	30	10
3	6	30	54
4	9		54
5	14	45	54
6	19		54
7	23		10
8			

Plan 3

Evt	Hour	Min	Act
1		1	10
2	5	30	10
3	6	30	10
4	7		54
5	14	45	54
6	19		54
7	22		10
8			

Plan 4

Evt	Hour	Min	Act
1			
2			
3			
4			
5			
6			
7			
8			

Plan 5

Evt	Hr	Min	Act
1			
2			
3			
4			
5			
6			
7			
8			

Plan 6

Evt	Hour	Min	Act
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0

Plan 7

Evt	Hour	Min	Act
1			
2			
3			
4			
5			
6			
7			
8			

Plan 8

Evt	Hour	Min	Act
1			
2			
3			
4			
5			
6			
7			
8			

Plan 9

Evt	Hour	Min	Act
1			
2			
3			
4			
5			
6			
7			
8			

Plan 10

Evt	Hour	Min	Act
1			
2			
3			
4			
5			
6			
7			
8			

Plan 11

Evt	Hr	Min	Act
1			
2			
3			
4			
5			
6			
7			
8			

Plan 12

Evt	Hour	Min	Act
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0

Comments:

Minute Table [4.5]

Act	Pat#	A1	A2	A3	S1	S2	S3	S4	S5	S6	S7	S8	P1	P2
1	1	-	-	-	-	-	-	-	-	-	-	-	0	0
2	2	-	-	-	-	-	-	-	-	-	-	-	0	0
3	3	-	-	-	-	-	-	-	-	-	-	-	0	0
4	4	-	-	-	-	-	-	-	-	-	-	-	0	0
5	5	-	-	-	-	-	-	-	-	-	-	-	0	0
6	6	-	-	-	-	-	-	-	-	-	-	-	0	0
7	7	-	-	-	-	-	-	-	-	-	-	-	0	0
8	8	-	-	-	-	-	-	-	-	-	-	-	0	0
9	9	-	-	-	-	-	-	-	-	-	-	-	0	0
10	10	-	-	-	-	-	-	-	-	-	-	-	0	0
11	0	-	-	-	-	-	-	-	-	-	-	-	0	0
12	0	-	-	-	-	-	-	-	-	-	-	-	0	0
13	0	-	-	-	-	-	-	-	-	-	-	-	0	0
14	0	-	-	-	-	-	-	-	-	-	-	-	0	0
15	0	-	-	-	-	-	-	-	-	-	-	-	0	0
16	0	-	-	-	-	-	-	-	-	-	-	-	0	0
54	254	-	-	-	-	-	-	-	-	-	-	-	0	0
55	255	-	-	-	-	-	-	-	-	-	-	-	0	0

City of CLOVIS

Name: MINNEWAWA @ SHEPHERD

ID: 293

Date Printed: 12/2/2019

#	Alarm	Ev	Alr
1	Power Up Alarm.	X	X
2	Stop Timing	X	X
3	Cabinet Door Activation	-	-
4	Coordination Failure	X	X
5	External Alarm # 1	-	-
6	External Alarm # 2	-	-
7	External Alarm # 3	-	-
8	External Alarm # 4	-	-
9	Closed Loop Disabled	-	-
10	External Alarm # 5	-	-
11	External Alarm # 6	-	-
12	Manual Control Enable	X	X
13	Coord Free Input	-	-
14	Local Flash Input	X	X
15	CMU/MMU Flash Input	-	-
16	MMU Fault	-	-
17	Cycle Fault	X	X
18	Cycle Failure	X	X
19	Coordination Fault	X	X
20	Controller Fault	X	X
21	Detector SDLC Fault	-	-
22	MMU SDLC Fault	-	-
23	Critical SDLC Fault	-	-
24	SDLC Res. Frame Fault	-	-
25	EEPROM CRC Fault	X	X
26	Detector Diagnostic Fault	-	-
27	Detector Fault from SDLC	-	-
28	Queue detector alarm	-	-
29	Ped Fault	-	-
30	Coord Diagnostic Fault	X	X
37	Download Request	X	X
38	Pattern Change	-	-
49	Preempt 1 Input	X	X
50	Preempt 2 Input	-	-
51	Preempt 3 Input	X	X
52	Preempt 4 Input	X	X
53	Preempt 5 Input	X	X
54	Preempt 6 Input	X	X
55	Preempt 7 Input	-	-
56	Preempt 8 Input	-	-
57	Preempt 9 Input	-	-
58	Preempt 10 Input	-	-
59	EEPROM Compare Fault	-	-
60	Coordination Failure	X	X
73	Controller Access	X	X
81	FIO Changed Status	X	X

Call Phases[1.1.5]

Ø	Phases Called By Ø
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	

Redirect Phases[1.1.5]

	From	To	From	To	From	To	From	To
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								

Inhibit Phases[1.1.5]

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Alt Call & Redirect # 1 [1.1.6.3]

Col	Ø	Phases Called By Ø
1	0	
2	0	
3	0	
4	0	
5	0	
6	0	
7	0	
8	0	

	From	To	From	To	From	To	From	To
1								
2								
3								
4								
5								
6								
7								
8								

Alt Inhibit Phases # 1 [1.1.6.3]

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Alt Call & Redirect # 2 [1.1.6.3]

Col	Ø	Phases Called By Ø
1	0	
2	0	
3	0	
4	0	
5	0	
6	0	
7	0	
8	0	

	From	To	From	To	From	To	From	To
1								
2								
3								
4								
5								
6								
7								
8								

Alt Inhibit Phases # 2 [1.1.6.3]

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Alarm Parameters [1.6.7.1]

Preempt Events Enable:	ON
Loc Pattern Event Enable:	ON
Reassign User Alarm #1 In (5):	0
Reassign User Alarm #2 In (6):	0
Local Txmt Alarms:	OFF
Mon/Flash Alarm Delay:	15

City of CLOVIS

Date Printed
12/2/2019

ID: 293 Name: MINNEWAWA @ SHEPHERD

I/O Inputs - 1.8.9.1.5

C-1 PIN	I/O Source	Function	Input Name
39	I1-1	2	Veh Det 2
40	I1-2	16	Veh Det 16
41	I1-3	8	Veh Det 8
42	I1-4	22	Veh Det 22
43	I1-5	3	Veh Det 3
44	I1-6	17	Veh Det 17
45	I1-7	9	Veh Det 9
46	I1-8	23	Veh Det 23
47	I2-1	6	Veh Det 6
48	I2-2	20	Veh Det 20
49	I2-3	12	Veh Det 12
50	I2-4	26	Veh Det 26
51	I2-5	198	Pre 1 In
52	I2-6	199	Pre 2 In
53	I2-7	189	Unused
54	I2-8	189	Unused
55	I3-1	15	Veh Det 15
56	I3-2	1	Veh Det 1
57	I3-3	21	Veh Det 21
58	I3-4	7	Veh Det 7
59	I3-5	27	Veh Det 27
60	I3-6	13	Veh Det 13
61	I3-7	28	Veh Det 28
62	I3-8	14	Veh Det 14
63	I4-5	4	Veh Det 4
64	I4-6	18	Veh Det 18
65	I4-7	10	Veh Det 10
66	I4-8	24	Veh Det 24
67	I5-1	130	Ped Call 2
68	I5-2	134	Ped Call 6
69	I5-3	132	Ped Call 4
70	I5-4	136	Ped Call 8
71	I5-5	200	Pre 3 In
72	I5-6	201	Pre 4 In
73	I5-7	202	Pre 5 In
74	I5-8	203	Pre 6 In
75	I6-1	189	Unused
76	I6-2	5	Veh Det 5
77	I6-3	19	Veh Det 19
78	I6-4	11	Veh Det 11
79	I6-5	25	Veh Det 25
80	I6-6	178	Int Advance
81	I6-7	208	Local Flash
82	I6-8	207	Comp StopTm

I/O OUTPU - 1.8.9.2.5

C-1 PIN	I/O Source	Function	Output Name
1	Logic Grd		
2	O1-1	14	Red Ch 14
3	O1-2	62	Grn Chan 14
4	O1-3	4	Red Ch 4
5	O1-4	28	Yel Chan 4
6	O1-5	52	Grn Chan 4
7	O1-6	3	Red Ch 3
8	O1-7	27	Yel Chan 3
9	O1-8	51	Grn Chan 3
10	O2-1	13	Red Ch 13
11	O2-2	61	Grn Chan 13
12	O2-3	2	Red Ch 2
13	O2-4	26	Yel Chan 2
14	Logic Grd		
15	O2-5	50	Grn Chan 2
16	O2-6	1	Red Ch 1
17	O2-7	25	Yel Chan 1
18	O2-8	49	Grn Chan 1
19	O3-1	16	Red Ch 16
20	O3-2	64	Grn Chan 16
21	O3-3	8	Red Ch 8
22	O3-4	32	Yel Chan 8
23	O3-5	56	Grn Chan 8
24	O3-6	7	Red Ch 7
25	O3-7	31	Yel Chan 7
26	O3-8	55	Grn Chan 7
27	O4-1	15	Red Ch 15
28	O4-2	63	Grn Chan 15
29	O4-3	6	Red Ch 6
30	O4-4	30	Yel Chan 6
31	O4-5	54	Grn Chan 6
32	O4-6	5	Red Ch 5
33	O4-7	29	Yel Chan 5
34	O4-8	53	Grn Chan 5
35	O5-1	37	Yel Chan 13
36	O5-2	39	Yel Chan 15
37	O5-3	38	Yel Chan 14
38	O5-4	40	Yel Chan 16
100	O5-5	42	Yel Chan 18
101	O5-6	41	Yel Chan 17
102	O5-7	115	Not Used
103	O5-8	114	Watchdog

C-1 PIN	I/O Source	Function	Output Name
83	O6-1	18	Red Ch 18
84	O6-2	66	Grn Chan 18
85	O6-3	12	Red Ch 12
86	O6-4	36	Yel Chan 12
87	O6-5	60	Grn Chan 12
88	O6-6	11	Red Ch 11
89	O6-7	35	Yel Chan 11
90	O6-8	59	Grn Chan 11
91	O7-1	17	Red Ch 17
92	Logic Grd		
93	O7-2	65	Grn Chan 17
94	O7-3	10	Red Ch 10
95	O7-4	34	Yel Chan 10
96	O7-5	58	Grn Chan 10
97	O7-6	9	Red Ch 9
98	O7-7	33	Yel Chan 9
99	O7-8	57	Grn Chan 9

I/O Outputs - 1.8.9.2.5
C-11 OUTPUTS

1	O8-1	115	Not Used
2	O8-2	115	Not Used
3	O8-3	115	Not Used
4	O8-4	115	Not Used

I/O Inputs - 1.8.9.1.5
C-11 INPUTS

15	I7-1	33	Veh Det 33
16	I7-2	34	Veh Det 34
17	I7-3	35	Veh Det 35
18	I7-4	36	Veh Det 36
19	I7-5	37	Veh Det 37
20	I7-6	38	Veh Det 38
21	I7-7	39	Veh Det 39
22	I7-8	40	Veh Det 40
23	I8-1	41	Veh Det 41
24	I8-2	42	Veh Det 42
25	I8-3	43	Veh Det 43
26	I8-4	44	Veh Det 44
27	I8-5	189	Unused
28	I8-6	189	Unused
29	I8-7	189	Unused
30	I8-8	189	Unused

City of CLOVIS

ID: 293

NAME: MINNEWAWA @ SHEPHERD

Date Printed: 12/2/2019

ID NUMBER: C0293

LOCATION: MINNEWAWA and SHEPHERD

T. Barker
6/22/2020

CITY OF CLOVIS
332L CABINET
44 DETECTOR SETUP

DETECTOR ASSIGNMENTS

												ISOLATORS		
	NBLT	SB INT	SBRT	SB NEAR	EBLT	WB INT	WBRT	WB NEAR	NBLT			West Leg	East Leg	
I	I1	I2	I3	I4	I5	I6	I7	I8	I9	I10	I11	I12	I13	I14
UPPER	**Ph 1** Call & Ext T2-1 & 2 C1-56 DET 1 RED LOCK FRONT	**Ph 2** Call & Ext T2-5 & 6 C1-39 DET 2 1.4	**Ph 2** Call & Ext T2-9 & 10 C1-63 DET 4 10.0 Sec	**Ph 2** Call & TP3 T4-1 & 2 C1-47 DET 6 Queue 20 2.0 FRONT	**Ph 3** Call & Ext T4-5 & 6 C1-58 DET 7 RED LOCK FRONT	**Ph 4** Call & Ext T4-9 & 10 C1-41 DET 8 1.5	**Ph 4** Call & Ext T6-1 & 2 C1-65 DET 10 10.0 Sec	**Ph 4** Call & TP3 T6-5 & 6 C1-49 DET 12 Queue 20 2.0 FRONT	**Ph 1** Call & Ext T6-9 & 10 C1-60 DET 13 RED LOCK 2nd & 3rd Loop	**Ph 2/4** Ext T10-5 & 6 C11-23 DET 41	**Ph 2** Call & Ext T8-1 C1-80 DET 29	**Ph 2** PED CALL T8-4 C1-67	**Ph 6** PED CALL T8-7 C1-68	**FLASH SENSE** T8-10 C1-81
LOWER	**Ph 1** Call & Ext T2-3 & 4 C11-15 DET 33 RED LOCK 0.0	**Ph 2** Call & Ext T2-7 & 8 C1-43 DET 3 SB FAR	**Ph 2** Call & Ext T2-11 & 12 C1-76 DET 5 RED LOCK 2.0 SB BIKE	**Ph 2** Call & TP3 T4-3 & 4 C11-16 DET 34 Queue 20 2.0 BACK SB NEAR	**Ph 3** Call & Ext T4-7 & 8 C11-17 DET 35 RED LOCK	**Ph 4** Call & Ext T4-11 & 12 C1-45 DET 9 0.0 WB FAR	**Ph 4** Call & Ext T6-3 & 4 C1-78 DET 11 RED LOCK 2.0 WB BIKE	**Ph 4** Call & TP3 T6-7 & 8 C11-18 DET 36 Queue 20 2.0 BACK WB NEAR	**Ph 3** Call & Ext T6- 11 & 12 C1-62 DET 14 RED LOCK 2nd & 3rd Loop EBLT	**Ph 2/4** Ext T10-7 & 8 C11-24 DET 42	**Ph 4** Call & Ext T8-2 C1-53 DET 30	**Ph 4** PED CALL T8-5 C1-69 North Leg	**Ph 8** PED CALL T8-8 C1-70 South Leg	**STOP TIME** T8-11 C1-82

	SBLT	NB INT	NBRT	NB NEAR	WBLT	EB INT	EBRT	EB NEAR	SBLT			SB	WB	UPS
J	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	J13	J14
UPPER	**Ph 5** Call & Ext T3-1 & 2 C1-55 DET 15 RED LOCK FRONT	**Ph 6** Ext T3-5 & 6 C1-40 DET 16 1.2	**Ph 6** Call & Ext T3-9 & 10 C1-64 DET 18 10.0 Sec	**Ph 6** Call & TP3 T5-1 & 2 C1-48 DET 20 QUEUE 20 2.0 FRONT	**Ph 7** Call & Ext T5-5 & 6 C1-57 DET 21 RED LOCK FRONT	**Ph 8** Call & Ext T5- 9 & 10 C1-42 DET 22 1.4	**Ph 8** Call & Ext T7-1 & 2 C1-66 DET 24 10.0 Sec	**Ph 8** Call & TP3 T7- 5 & 6 C1-50 DET 26 QUEUE 20 2.0 #1 LANE	**Ph 5** Call & Ext T7- 9 & 10 C1-59 DET 27 RED LOCK 2nd & 3rd Loop	**Ph 6/8** Ext T10-9 & 10 C11-25 DET 43	**Ph 6** Call & Ext T9-1 T9-4 C1 - 71	**PH 2 & 5** **EVA** **Preempt**	**PH 4 & 7** **EVB** **Preempt** T9-5 C1 - 72	**LOW BATT RAILROAD 1** T9-10 C1-51
LOWER	**Ph 5** Call & Ext T3-3 & 4 C11-19 DET 37 RED LOCK 0.7	**Ph 6** Call & Ext T3-7 & 8 C1-44 DET 17 NB FAR	**Ph 6** Call & Ext T3-11 & 12 C1-77 DET 19 RED LOCK 2.0 BIKE LANE	**Ph 6** Call & TP3 T5-3 & 4 C11-20 DET 38 QUEUE 20 2.0 BACK NB NEAR	**Ph 7** Call & Ext T5-7 & 8 C11-21 DET 39 RED LOCK	**Ph 8** Call & Ext T5-11 & 12 C1-46 DET 23 0.1 EB FAR	**Ph 8** Call & TP3 T7- 3 & 4 C1-79 DET 25 QUEUE 20 2.0 BACK EB NEAR	**Ph 8** Call & TP3 T7- 7 & 8 C11-22 DET 40 QUEUE 20 2.0 #2 LANE EB NEAR	**Ph 7** Call & Ext T7-11 & 12 C1-61 DET 28 RED LOCK 2nd & 3rd Loop WBLT	**Ph 6/8** Ext T10-11 & 12 C11-26 DET 44	**Ph 8** Call & Ext T9-2 T9-7 C1 - 73	**PH 6 & 1** **EVC** **Preempt**	**PH 8** **EVD** **Preempt** T9-8 C1 - 74	**RAILROAD 2** T9-11 C1-52

COMMENTS:

DET #16 (NB INT) - Extend only due to northbound traffic exiting Serena Avenue crossing over the detection zone. "CALL" removed.
DET #19 (NB BIKE LANE) - Just added by CIP 18-08 Minnewawa Street Improvement Project.

222 Loop Amplifier
764 Discriminator
242 Isolator

APPENDIX D

VOLUME DEVELOPMENT WORKSHEETS

LSA

Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
1 Willow Avenue/Behymer Avenue						
NBL	103	0	103	119	0	119
NBT	693	0	693	731	0	731
NBR	31	20	51	54	66	120
SBL	66	2	68	95	8	103
SBT	611	0	611	560	0	560
SBR	54	0	54	40	0	40
EBL	80	0	80	21	0	21
EBT	129	1	130	104	5	109
EBR	182	0	182	121	0	121
WBL	32	58	90	55	39	94
WBT	135	4	139	138	3	141
WBR	135	7	142	119	5	124
North Leg						
Approach	731	2	733	695	8	703
Departure	908	7	915	871	5	876
Total	1,639	9	1,648	1,566	13	1,579
South Leg						
Approach	827	20	847	904	66	970
Departure	825	58	883	736	39	775
Total	1,652	78	1,730	1,640	105	1,745
East Leg						
Approach	302	69	371	312	47	359
Departure	226	23	249	253	79	332
Total	528	92	620	565	126	691
West Leg						
Approach	391	1	392	246	5	251
Departure	292	4	296	297	3	300
Total	683	5	688	543	8	551
Total Approaches						
Approach	2,251	92	2,343	2,157	126	2,283
Departure	2,251	92	2,343	2,157	126	2,283
Total	4,502	184	4,686	4,314	252	4,566

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Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
2 Willow Avenue/Perrin Avenue						
NBL	88	0	88	199	0	199
NBT	685	13	698	855	44	899
NBR	0	0	0	0	0	0
SBL	0	0	0	0	0	0
SBT	758	39	797	671	26	697
SBR	99	19	118	89	13	102
EBL	165	7	172	114	22	136
EBT	0	0	0	0	0	0
EBR	167	0	167	193	0	193
WBL	0	0	0	0	0	0
WBT	0	0	0	0	0	0
WBR	0	0	0	0	0	0
North Leg						
Approach	857	58	915	760	39	799
Departure	850	20	870	969	66	1,035
Total	1,707	78	1,785	1,729	105	1,834
South Leg						
Approach	773	13	786	1,054	44	1,098
Departure	925	39	964	864	26	890
Total	1,698	52	1,750	1,918	70	1,988
East Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
West Leg						
Approach	332	7	339	307	22	329
Departure	187	19	206	288	13	301
Total	519	26	545	595	35	630
Total Approaches						
Approach	1,962	78	2,040	2,121	105	2,226
Departure	1,962	78	2,040	2,121	105	2,226
Total	3,924	156	4,080	4,242	210	4,452

LSA

Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
3 Peach Avenue/Behymer Avenue						
NBL	0	48	48	0	33	33
NBT	0	0	0	0	0	0
NBR	0	0	0	0	0	0
SBL	1	0	1	0	0	0
SBT	0	0	0	0	0	0
SBR	0	0	0	1	0	1
EBL	0	0	0	1	0	1
EBT	224	22	246	241	71	312
EBR	0	2	2	0	8	8
WBL	0	2	2	0	8	8
WBT	344	21	365	293	14	307
WBR	1	0	1	0	0	0
North Leg						
Approach	1	0	1	1	0	1
Departure	1	0	1	1	0	1
Total	2	0	2	2	0	2
South Leg						
Approach	0	48	48	0	33	33
Departure	0	4	4	0	16	16
Total	0	52	52	0	49	49
East Leg						
Approach	345	23	368	293	22	315
Departure	225	22	247	241	71	312
Total	570	45	615	534	93	627
West Leg						
Approach	224	24	248	242	79	321
Departure	344	69	413	294	47	341
Total	568	93	661	536	126	662
Total Approaches						
Approach	570	95	665	536	134	670
Departure	570	95	665	536	134	670
Total	1,140	190	1,330	1,072	268	1,340

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Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
4 Minnewawa Avenue/Behymer Avenue						
NBL	65	20	85	61	66	127
NBT	240	0	240	259	0	259
NBR	19	0	19	30	0	30
SBL	175	0	175	187	0	187
SBT	207	0	207	168	0	168
SBR	3	1	4	2	5	7
EBL	4	4	8	2	3	5
EBT	155	7	162	192	5	197
EBR	67	58	125	43	39	82
WBL	25	0	25	15	0	15
WBT	220	2	222	225	8	233
WBR	253	0	253	179	0	179
EBU	0	21	21	0	14	14
North Leg						
Approach	385	1	386	357	5	362
Departure	497	4	501	440	3	443
Total	882	5	887	797	8	805
South Leg						
Approach	324	20	344	350	66	416
Departure	299	58	357	226	39	265
Total	623	78	701	576	105	681
East Leg						
Approach	498	2	500	419	8	427
Departure	349	7	356	409	5	414
Total	847	9	856	828	13	841
West Leg						
Approach	226	90	316	237	61	298
Departure	288	44	332	288	93	381
Total	514	134	648	525	154	679
Total Approaches						
Approach	1,433	113	1,546	1,363	140	1,503
Departure	1,433	113	1,546	1,363	140	1,503
Total	2,866	226	3,092	2,726	280	3,006

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Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
5 Minnewawa Avenue/Perrin Avenue						
NBL	3	0	3	0	0	0
NBT	309	20	329	338	66	404
NBR	11	0	11	2	0	2
SBL	2	0	2	0	0	0
SBT	337	58	395	250	39	289
SBR	6	0	6	1	0	1
EBL	8	0	8	0	0	0
EBT	0	0	0	0	0	0
EBR	3	0	3	2	0	2
WBL	4	0	4	9	0	9
WBT	0	0	0	0	0	0
WBR	2	0	2	2	0	2
North Leg						
Approach	345	58	403	251	39	290
Departure	319	20	339	340	66	406
Total	664	78	742	591	105	696
South Leg						
Approach	323	20	343	340	66	406
Departure	344	58	402	261	39	300
Total	667	78	745	601	105	706
East Leg						
Approach	6	0	6	11	0	11
Departure	13	0	13	2	0	2
Total	19	0	19	13	0	13
West Leg						
Approach	11	0	11	2	0	2
Departure	9	0	9	1	0	1
Total	20	0	20	3	0	3
Total Approaches						
Approach	685	78	763	604	105	709
Departure	685	78	763	604	105	709
Total	1,370	156	1,526	1,208	210	1,418

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Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
6 Minnewawa Avenue/Shepherd Avenue						
NBL	120	0	120	129	0	129
NBT	152	10	162	205	31	236
NBR	18	0	18	24	0	24
SBL	91	30	121	48	20	68
SBT	193	28	221	169	19	188
SBR	34	0	34	36	0	36
EBL	34	0	34	44	0	44
EBT	318	0	318	295	0	295
EBR	128	0	128	111	0	111
WBL	14	0	14	6	0	6
WBT	265	0	265	240	0	240
WBR	137	11	148	88	35	123
North Leg						
Approach	318	58	376	253	39	292
Departure	323	21	344	337	66	403
Total	641	79	720	590	105	695
South Leg						
Approach	290	10	300	358	31	389
Departure	335	28	363	286	19	305
Total	625	38	663	644	50	694
East Leg						
Approach	416	11	427	334	35	369
Departure	427	30	457	367	20	387
Total	843	41	884	701	55	756
West Leg						
Approach	480	0	480	450	0	450
Departure	419	0	419	405	0	405
Total	899	0	899	855	0	855
Total Approaches						
Approach	1,504	79	1,583	1,395	105	1,500
Departure	1,504	79	1,583	1,395	105	1,500
Total	3,008	158	3,166	2,790	210	3,000

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Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
7 Peach Avenue/Project Driveway 1						
NBL	0	0	0	0	0	0
NBT	0	0	0	0	0	0
NBR	0	0	0	0	0	0
SBL	0	5	5	0	16	16
SBT	0	0	0	0	0	0
SBR	0	0	0	0	0	0
EBL	0	0	0	0	0	0
EBT	0	0	0	0	0	0
EBR	0	0	0	0	0	0
WBL	0	0	0	0	0	0
WBT	0	0	0	0	0	0
WBR	0	48	48	0	33	33
North Leg						
Approach	0	5	5	0	16	16
Departure	0	48	48	0	33	33
Total	0	53	53	0	49	49
South Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
East Leg						
Approach	0	48	48	0	33	33
Departure	0	5	5	0	16	16
Total	0	53	53	0	49	49
West Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
Total Approaches						
Approach	0	53	53	0	49	49
Departure	0	53	53	0	49	49
Total	0	106	106	0	98	98

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Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
8 Project Driveway 2/Behymer Avenue						
NBL	0	0	0	0	0	0
NBT	0	0	0	0	0	0
NBR	0	21	21	0	14	14
SBL	0	0	0	0	0	0
SBT	0	0	0	0	0	0
SBR	0	0	0	0	0	0
EBL	0	0	0	0	0	0
EBT	226	17	243	237	55	292
EBR	0	5	5	0	16	16
WBL	0	0	0	0	0	0
WBT	288	23	311	288	22	310
WBR	0	0	0	0	0	0
North Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
South Leg						
Approach	0	21	21	0	14	14
Departure	0	5	5	0	16	16
Total	0	26	26	0	30	30
East Leg						
Approach	288	23	311	288	22	310
Departure	226	38	264	237	69	306
Total	514	61	575	525	91	616
West Leg						
Approach	226	22	248	237	71	308
Departure	288	23	311	288	22	310
Total	514	45	559	525	93	618
Total Approaches						
Approach	514	66	580	525	107	632
Departure	514	66	580	525	107	632
Total	1,028	132	1,160	1,050	214	1,264

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Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
9 Project Driveway 3/Behymer Avenue						
NBL	0	0	0	0	0	0
NBT	0	0	0	0	0	0
NBR	0	28	28	0	19	19
SBL	0	0	0	0	0	0
SBT	0	0	0	0	0	0
SBR	0	0	0	0	0	0
EBL	0	0	0	0	0	0
EBT	226	28	254	237	38	275
EBR	0	10	10	0	31	31
WBL	0	22	22	0	71	71
WBT	288	23	311	288	22	310
WBR	0	0	0	0	0	0
North Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
South Leg						
Approach	0	28	28	0	19	19
Departure	0	32	32	0	102	102
Total	0	60	60	0	121	121
East Leg						
Approach	288	45	333	288	93	381
Departure	226	56	282	237	57	294
Total	514	101	615	525	150	675
West Leg						
Approach	226	38	264	237	69	306
Departure	288	23	311	288	22	310
Total	514	61	575	525	91	616
Total Approaches						
Approach	514	111	625	525	181	706
Departure	514	111	625	525	181	706
Total	1,028	222	1,250	1,050	362	1,412

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Table D-1 - Existing Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Existing Volumes	Project Trips	Existing Plus Project	Existing Volumes	Project Trips	Existing Plus Project
10 Project Driveway 4/Behymer Avenue						
NBL	0	0	0	0	0	0
NBT	0	0	0	0	0	0
NBR	0	41	41	0	28	28
SBL	0	0	0	0	0	0
SBT	0	0	0	0	0	0
SBR	0	0	0	0	0	0
EBL	0	0	0	0	0	0
EBT	226	48	274	237	33	270
EBR	0	7	7	0	24	24
WBL	0	0	0	0	0	0
WBT	288	45	333	288	93	381
WBR	0	0	0	0	0	0
North Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
South Leg						
Approach	0	41	41	0	28	28
Departure	0	7	7	0	24	24
Total	0	48	48	0	52	52
East Leg						
Approach	288	45	333	288	93	381
Departure	226	89	315	237	61	298
Total	514	134	648	525	154	679
West Leg						
Approach	226	55	281	237	57	294
Departure	288	45	333	288	93	381
Total	514	100	614	525	150	675
Total Approaches						
Approach	514	141	655	525	178	703
Departure	514	141	655	525	178	703
Total	1,028	282	1,310	1,050	356	1,406

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Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
1 Willow Avenue/Behymer Avenue			
NBL	148	0	148
NBT	723	0	723
NBR	65	20	85
SBL	77	2	79
SBT	634	0	634
SBR	54	0	54
EBL	80	0	80
EBT	141	1	142
EBR	216	0	216
WBL	77	58	135
WBT	152	4	156
WBR	150	7	157
North Leg			
Approach	765	2	767
Departure	953	7	960
Total	1,718	9	1,727
South Leg			
Approach	936	20	956
Departure	927	58	985
Total	1,863	78	1,941
East Leg			
Approach	379	69	448
Departure	283	23	306
Total	662	92	754
West Leg			
Approach	437	1	438
Departure	354	4	358
Total	791	5	796
Total Approaches			
Approach	2,517	92	2,609
Departure	2,517	92	2,609
Total	5,034	184	5,218

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Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
2 Willow Avenue/Perrin Avenue			
NBL	118	0	118
NBT	753	13	766
NBR	79	0	79
SBL	23	0	23
SBT	822	39	861
SBR	129	19	148
EBL	188	7	195
EBT	70	0	70
EBR	190	0	190
WBL	104	0	104
WBT	93	0	93
WBR	30	0	30
North Leg			
Approach	974	58	1,032
Departure	971	20	991
Total	1,945	78	2,023
South Leg			
Approach	950	13	963
Departure	1,116	39	1,155
Total	2,066	52	2,118
East Leg			
Approach	227	0	227
Departure	172	0	172
Total	399	0	399
West Leg			
Approach	448	7	455
Departure	340	19	359
Total	788	26	814
Total Approaches			
Approach	2,599	78	2,677
Departure	2,599	78	2,677
Total	5,198	156	5,354

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Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
3 Peach Avenue/Behymer Avenue			
NBL	30	48	78
NBT	30	0	30
NBR	15	0	15
SBL	1	0	1
SBT	23	0	23
SBR	0	0	0
EBL	0	0	0
EBT	239	22	261
EBR	23	2	25
WBL	11	2	13
WBT	368	21	389
WBR	1	0	1
North Leg			
Approach	24	0	24
Departure	31	0	31
Total	55	0	55
South Leg			
Approach	75	48	123
Departure	57	4	61
Total	132	52	184
East Leg			
Approach	380	23	403
Departure	255	22	277
Total	635	45	680
West Leg			
Approach	262	24	286
Departure	398	69	467
Total	660	93	753
Total Approaches			
Approach	741	95	836
Departure	741	95	836
Total	1,482	190	1,672

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Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
4 Minnewawa Avenue/Behymer Avenue			
NBL	88	20	108
NBT	272	0	272
NBR	19	0	19
SBL	175	0	175
SBT	235	0	235
SBR	3	1	4
EBL	4	4	8
EBT	172	7	179
EBR	81	58	139
WBL	25	0	25
WBT	232	2	234
WBR	253	0	253
EBU		21	21
North Leg			
Approach	413	1	414
Departure	529	4	533
Total	942	5	947
South Leg			
Approach	379	20	399
Departure	341	58	399
Total	720	78	798
East Leg			
Approach	510	2	512
Departure	366	7	373
Total	876	9	885
West Leg			
Approach	257	90	347
Departure	323	44	367
Total	580	134	714
Total Approaches			
Approach	1,559	113	1,672
Departure	1,559	113	1,672
Total	3,118	226	3,344

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Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
5 Minnewawa Avenue/Perrin Avenue			
NBL	61	0	61
NBT	396	20	416
NBR	14	0	14
SBL	2	0	2
SBT	428	58	486
SBR	32	0	32
EBL	34	0	34
EBT	69	0	69
EBR	67	0	67
WBL	7	0	7
WBT	74	0	74
WBR	2	0	2
North Leg			
Approach	462	58	520
Departure	432	20	452
Total	894	78	972
South Leg			
Approach	471	20	491
Departure	502	58	560
Total	973	78	1,051
East Leg			
Approach	83	0	83
Departure	85	0	85
Total	168	0	168
West Leg			
Approach	170	0	170
Departure	167	0	167
Total	337	0	337
Total Approaches			
Approach	1,186	78	1,264
Departure	1,186	78	1,264
Total	2,372	156	2,528

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Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
6 Minnewawa Avenue/Shepherd Avenue			
NBL	199	0	199
NBT	307	10	317
NBR	34	0	34
SBL	174	30	204
SBT	475	28	503
SBR	143	0	143
EBL	103	0	103
EBT	374	0	374
EBR	232	0	232
WBL	32	0	32
WBT	308	0	308
WBR	191	11	202
North Leg			
Approach	792	58	850
Departure	601	21	622
Total	1,393	79	1,472
South Leg			
Approach	540	10	550
Departure	739	28	767
Total	1,279	38	1,317
East Leg			
Approach	531	11	542
Departure	582	30	612
Total	1,113	41	1,154
West Leg			
Approach	709	0	709
Departure	650	0	650
Total	1,359	0	1,359
Total Approaches			
Approach	2,572	79	2,651
Departure	2,572	79	2,651
Total	5,144	158	5,302

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Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
7 Peach Avenue/Project Driveway 1			
NBL	0	0	0
NBT	75	0	75
NBR	0	0	0
SBL	0	5	5
SBT	57	0	57
SBR	0	0	0
EBL	0	0	0
EBT	0	0	0
EBR	0	0	0
WBL	0	0	0
WBT	0	0	0
WBR	0	48	48
North Leg			
Approach	57	5	62
Departure	75	48	123
Total	132	53	185
South Leg			
Approach	75	0	75
Departure	57	0	57
Total	132	0	132
East Leg			
Approach	0	48	48
Departure	0	5	5
Total	0	53	53
West Leg			
Approach	0	0	0
Departure	0	0	0
Total	0	0	0
Total Approaches			
Approach	132	53	185
Departure	132	53	185
Total	264	106	370

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Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
8 Project Driveway 2/Behymer Avenue			
NBL	0	0	0
NBT	0	0	0
NBR	0	21	21
SBL	0	0	0
SBT	0	0	0
SBR	0	0	0
EBL	0	0	0
EBT	257	17	274
EBR	0	5	5
WBL	0	0	0
WBT	323	23	346
WBR	0	0	0
North Leg			
Approach	0	0	0
Departure	0	0	0
Total	0	0	0
South Leg			
Approach	0	21	21
Departure	0	5	5
Total	0	26	26
East Leg			
Approach	323	23	346
Departure	257	38	295
Total	580	61	641
West Leg			
Approach	257	22	279
Departure	323	23	346
Total	580	45	625
Total Approaches			
Approach	580	66	646
Departure	580	66	646
Total	1,160	132	1,292

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Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
9 Project Driveway 3/Behymer Avenue			
NBL	0	0	0
NBT	0	0	0
NBR	0	28	28
SBL	0	0	0
SBT	0	0	0
SBR	0	0	0
EBL	0	0	0
EBT	257	28	285
EBR	0	10	10
WBL	0	22	22
WBT	323	23	346
WBR	0	0	0
North Leg			
Approach	0	0	0
Departure	0	0	0
Total	0	0	0
South Leg			
Approach	0	28	28
Departure	0	32	32
Total	0	60	60
East Leg			
Approach	323	45	368
Departure	257	56	313
Total	580	101	681
West Leg			
Approach	257	38	295
Departure	323	23	346
Total	580	61	641
Total Approaches			
Approach	580	111	691
Departure	580	111	691
Total	1,160	222	1,382

LSA

Table D-2 - Near-Term Peak Hour Volume Summary

	AM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
10 Project Driveway 4/Behymer Avenue			
NBL	0	0	0
NBT	0	0	0
NBR	0	41	41
SBL	0	0	0
SBT	0	0	0
SBR	0	0	0
EBL	0	0	0
EBT	257	48	305
EBR	0	7	7
WBL	0	0	0
WBT	323	45	368
WBR	0	0	0
North Leg			
Approach	0	0	0
Departure	0	0	0
Total	0	0	0
South Leg			
Approach	0	41	41
Departure	0	7	7
Total	0	48	48
East Leg			
Approach	323	45	368
Departure	257	89	346
Total	580	134	714
West Leg			
Approach	257	55	312
Departure	323	45	368
Total	580	100	680
Total Approaches			
Approach	580	141	721
Departure	580	141	721
Total	1,160	282	1,442

LSA

Table D-2 - Near-Term Peak Hour Volume Summary

	PM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
1 Willow Avenue/Behymer Avenue			
NBL	174	0	174
NBT	768	0	768
NBR	112	66	178
SBL	114	8	122
SBT	599	0	599
SBR	40	0	40
EBL	21	0	21
EBT	125	5	130
EBR	179	0	179
WBL	111	39	150
WBT	157	3	160
WBR	137	5	142
North Leg			
Approach	753	8	761
Departure	926	5	931
Total	1,679	13	1,692
South Leg			
Approach	1,054	66	1,120
Departure	889	39	928
Total	1,943	105	2,048
East Leg			
Approach	405	47	452
Departure	351	79	430
Total	756	126	882
West Leg			
Approach	325	5	330
Departure	371	3	374
Total	696	8	704
Total Approaches			
Approach	2,537	126	2,663
Departure	2,537	126	2,663
Total	5,074	252	5,326

LSA

Table D-2 - Near-Term Peak Hour Volume Summary

	PM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
2 Willow Avenue/Perrin Avenue			
NBL	236	0	236
NBT	933	44	977
NBR	152	0	152
SBL	55	0	55
SBT	750	26	776
SBR	126	13	139
EBL	153	22	175
EBT	123	0	123
EBR	232	0	232
WBL	145	0	145
WBT	114	0	114
WBR	54	0	54
North Leg			
Approach	931	39	970
Departure	1,140	66	1,206
Total	2,071	105	2,176
South Leg			
Approach	1,321	44	1,365
Departure	1,127	26	1,153
Total	2,448	70	2,518
East Leg			
Approach	313	0	313
Departure	330	0	330
Total	643	0	643
West Leg			
Approach	508	22	530
Departure	476	13	489
Total	984	35	1,019
Total Approaches			
Approach	3,073	105	3,178
Departure	3,073	105	3,178
Total	6,146	210	6,356

LSA

Table D-2 - Near-Term Peak Hour Volume Summary

	PM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
3 Peach Avenue/Behymer Avenue			
NBL	37	33	70
NBT	37	0	37
NBR	18	0	18
SBL	0	0	0
SBT	39	0	39
SBR	1	0	1
EBL	1	0	1
EBT	270	71	341
EBR	39	8	47
WBL	19	8	27
WBT	318	14	332
WBR	0	0	0
North Leg			
Approach	40	0	40
Departure	38	0	38
Total	78	0	78
South Leg			
Approach	92	33	125
Departure	97	16	113
Total	189	49	238
East Leg			
Approach	337	22	359
Departure	288	71	359
Total	625	93	718
West Leg			
Approach	310	79	389
Departure	356	47	403
Total	666	126	792
Total Approaches			
Approach	779	134	913
Departure	779	134	913
Total	1,558	268	1,826

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Table D-2 - Near-Term Peak Hour Volume Summary

	PM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
4 Minnewawa Avenue/Behymer Avenue			
NBL	84	66	150
NBT	300	0	300
NBR	30	0	30
SBL	187	0	187
SBT	213	0	213
SBR	2	5	7
EBL	2	3	5
EBT	212	5	217
EBR	72	39	111
WBL	15	0	15
WBT	247	8	255
WBR	179	0	179
EBU		14	14
North Leg			
Approach	402	5	407
Departure	481	3	484
Total	883	8	891
South Leg			
Approach	414	66	480
Departure	300	39	339
Total	714	105	819
East Leg			
Approach	441	8	449
Departure	429	5	434
Total	870	13	883
West Leg			
Approach	286	61	347
Departure	333	93	426
Total	619	154	773
Total Approaches			
Approach	1,543	140	1,683
Departure	1,543	140	1,683
Total	3,086	280	3,366

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Table D-2 - Near-Term Peak Hour Volume Summary

	PM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
5 Minnewawa Avenue/Perrin Avenue			
NBL	88	0	88
NBT	463	66	529
NBR	7	0	7
SBL	0	0	0
SBT	376	39	415
SBR	38	0	38
EBL	37	0	37
EBT	97	0	97
EBR	91	0	91
WBL	14	0	14
WBT	96	0	96
WBR	2	0	2
North Leg			
Approach	414	39	453
Departure	502	66	568
Total	916	105	1,021
South Leg			
Approach	558	66	624
Departure	481	39	520
Total	1,039	105	1,144
East Leg			
Approach	112	0	112
Departure	104	0	104
Total	216	0	216
West Leg			
Approach	225	0	225
Departure	222	0	222
Total	447	0	447
Total Approaches			
Approach	1,309	105	1,414
Departure	1,309	105	1,414
Total	2,618	210	2,828

LSA

Table D-2 - Near-Term Peak Hour Volume Summary

	PM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
6 Minnewawa Avenue/Shepherd Avenue			
NBL	265	0	265
NBT	546	31	577
NBR	48	0	48
SBL	138	20	158
SBT	435	19	454
SBR	152	0	152
EBL	182	0	182
EBT	368	0	368
EBR	239	0	239
WBL	30	0	30
WBT	316	0	316
WBR	193	35	228
North Leg			
Approach	725	39	764
Departure	921	66	987
Total	1,646	105	1,751
South Leg			
Approach	859	31	890
Departure	704	19	723
Total	1,563	50	1,613
East Leg			
Approach	539	35	574
Departure	554	20	574
Total	1,093	55	1,148
West Leg			
Approach	789	0	789
Departure	733	0	733
Total	1,522	0	1,522
Total Approaches			
Approach	2,912	105	3,017
Departure	2,912	105	3,017
Total	5,824	210	6,034

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Table D-2 - Near-Term Peak Hour Volume Summary

		PM Peak Hour		
		Near-Term Without Project	Project Trips	Near-Term Plus Project
7	**Peach Avenue/Project Driveway 1**			
NBL		0	0	0
NBT		91	0	91
NBR		0	0	0
SBL		0	16	16
SBT		97	0	97
SBR		0	0	0
EBL		0	0	0
EBT		0	0	0
EBR		0	0	0
WBL		0	0	0
WBT		0	0	0
WBR		0	33	33
North Leg				
	Approach	97	16	113
	Departure	91	33	124
	Total	188	49	237
South Leg				
	Approach	91	0	91
	Departure	97	0	97
	Total	188	0	188
East Leg				
	Approach	0	33	33
	Departure	0	16	16
	Total	0	49	49
West Leg				
	Approach	0	0	0
	Departure	0	0	0
	Total	0	0	0
Total Approaches				
	Approach	188	49	237
	Departure	188	49	237
	Total	376	98	474

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Table D-2 - Near-Term Peak Hour Volume Summary

		PM Peak Hour		
		Near-Term Without Project	Project Trips	Near-Term Plus Project
8	**Project Driveway 2/Behymer Avenue**			
NBL		0	0	0
NBT		0	0	0
NBR		0	14	14
SBL		0	0	0
SBT		0	0	0
SBR		0	0	0
EBL		0	0	0
EBT		286	55	341
EBR		0	16	16
WBL		0	0	0
WBT		333	22	355
WBR		0	0	0
North Leg				
	Approach	0	0	0
	Departure	0	0	0
	Total	0	0	0
South Leg				
	Approach	0	14	14
	Departure	0	16	16
	Total	0	30	30
East Leg				
	Approach	333	22	355
	Departure	286	69	355
	Total	619	91	710
West Leg				
	Approach	286	71	357
	Departure	333	22	355
	Total	619	93	712
Total Approaches				
	Approach	619	107	726
	Departure	619	107	726
	Total	1,238	214	1,452

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Table D-2 - Near-Term Peak Hour Volume Summary

	PM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
9 Project Driveway 3/Behymer Avenue			
NBL	0	0	0
NBT	0	0	0
NBR	0	19	19
SBL	0	0	0
SBT	0	0	0
SBR	0	0	0
EBL	0	0	0
EBT	286	38	324
EBR	0	31	31
WBL	0	71	71
WBT	333	22	355
WBR	0	0	0
North Leg			
Approach	0	0	0
Departure	0	0	0
Total	0	0	0
South Leg			
Approach	0	19	19
Departure	0	102	102
Total	0	121	121
East Leg			
Approach	333	93	426
Departure	286	57	343
Total	619	150	769
West Leg			
Approach	286	69	355
Departure	333	22	355
Total	619	91	710
Total Approaches			
Approach	619	181	800
Departure	619	181	800
Total	1,238	362	1,600

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Table D-2 - Near-Term Peak Hour Volume Summary

	PM Peak Hour		
	Near-Term Without Project	Project Trips	Near-Term Plus Project
10 Project Driveway 4/Behymer Avenue			
NBL	0	0	0
NBT	0	0	0
NBR	0	28	28
SBL	0	0	0
SBT	0	0	0
SBR	0	0	0
EBL	0	0	0
EBT	286	33	319
EBR	0	24	24
WBL	0	0	0
WBT	333	93	426
WBR	0	0	0
North Leg			
Approach	0	0	0
Departure	0	0	0
Total	0	0	0
South Leg			
Approach	0	28	28
Departure	0	24	24
Total	0	52	52
East Leg			
Approach	333	93	426
Departure	286	61	347
Total	619	154	773
West Leg			
Approach	286	57	343
Departure	333	93	426
Total	619	150	769
Total Approaches			
Approach	619	178	797
Departure	619	178	797
Total	1,238	356	1,594

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Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
1 Willow Avenue/Behymer Avenue						
NBL	193	0	193	215	0	215
NBT	784	0	784	889	0	889
NBR	265	0	265	670	0	670
SBL	148	2	150	244	8	252
SBT	913	0	913	655	0	655
SBR	57	0	57	42	0	42
EBL	84	0	84	22	0	22
EBT	222	1	223	254	5	259
EBR	267	0	267	237	0	237
WBL	547	0	547	526	0	526
WBT	289	4	293	252	3	255
WBR	330	7	337	254	5	259
North Leg						
Approach	1,118	2	1,120	941	8	949
Departure	1,198	7	1,205	1,165	5	1,170
Total	2,316	9	2,325	2,106	13	2,119
South Leg						
Approach	1,242	0	1,242	1,774	0	1,774
Departure	1,727	0	1,727	1,418	0	1,418
Total	2,969	0	2,969	3,192	0	3,192
East Leg						
Approach	1,166	11	1,177	1,032	8	1,040
Departure	635	3	638	1,168	13	1,181
Total	1,801	14	1,815	2,200	21	2,221
West Leg						
Approach	573	1	574	513	5	518
Departure	539	4	543	509	3	512
Total	1,112	5	1,117	1,022	8	1,030
Total Approaches						
Approach	4,099	14	4,113	4,260	21	4,281
Departure	4,099	14	4,113	4,260	21	4,281
Total	8,198	28	8,226	8,520	42	8,562

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Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
2 Willow Avenue/Perrin Avenue						
NBL	160	0	160	273	0	273
NBT	861	0	861	1,373	0	1,373
NBR	134	0	134	280	0	280
SBL	45	0	45	120	0	120
SBT	1,252	0	1,252	908	0	908
SBR	449	0	449	401	0	401
EBL	278	0	278	449	0	449
EBT	119	7	126	233	22	255
EBR	209	0	209	333	0	333
WBL	197	0	197	246	0	246
WBT	181	19	200	197	13	210
WBR	76	0	76	107	0	107
North Leg						
Approach	1,746	0	1,746	1,429	0	1,429
Departure	1,215	0	1,215	1,929	0	1,929
Total	2,961	0	2,961	3,358	0	3,358
South Leg						
Approach	1,155	0	1,155	1,926	0	1,926
Departure	1,658	0	1,658	1,487	0	1,487
Total	2,813	0	2,813	3,413	0	3,413
East Leg						
Approach	454	19	473	550	13	563
Departure	298	7	305	633	22	655
Total	752	26	778	1,183	35	1,218
West Leg						
Approach	606	7	613	1,015	22	1,037
Departure	790	19	809	871	13	884
Total	1,396	26	1,422	1,886	35	1,921
Total Approaches						
Approach	3,961	26	3,987	4,920	35	4,955
Departure	3,961	26	3,987	4,920	35	4,955
Total	7,922	52	7,974	9,840	70	9,910

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Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
3 Peach Avenue/Behymer Avenue						
NBL	62	8	70	95	6	101
NBT	56	0	56	74	0	74
NBR	35	1	36	54	5	59
SBL	36	0	36	10	0	10
SBT	47	0	47	75	0	75
SBR	1	0	1	1	0	1
EBL	0	0	0	1	0	1
EBT	309	3	312	772	11	783
EBR	60	0	60	83	2	85
WBL	39	6	45	48	11	59
WBT	961	3	964	620	2	622
WBR	7	0	7	36	0	36
North Leg						
Approach	84	0	84	86	0	86
Departure	63	0	63	111	0	111
Total	147	0	147	197	0	197
South Leg						
Approach	153	9	162	223	11	234
Departure	146	6	152	206	13	219
Total	299	15	314	429	24	453
East Leg						
Approach	1,007	9	1,016	704	13	717
Departure	380	4	384	836	16	852
Total	1,387	13	1,400	1,540	29	1,569
West Leg						
Approach	369	3	372	856	13	869
Departure	1,024	11	1,035	716	8	724
Total	1,393	14	1,407	1,572	21	1,593
Total Approaches						
Approach	1,613	21	1,634	1,869	37	1,906
Departure	1,613	21	1,634	1,869	37	1,906
Total	3,226	42	3,268	3,738	74	3,812

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Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
4 Minnewawa Avenue/Behymer Avenue						
NBL	177	10	187	229	31	260
NBT	317	0	317	628	0	628
NBR	35	0	35	64	0	64
SBL	250	0	250	226	0	226
SBT	544	0	544	310	0	310
SBR	23	1	24	10	5	15
EBL	12	4	16	14	3	17
EBT	222	37	259	472	25	497
EBR	153	28	181	161	19	180
WBL	63	0	63	35	0	35
WBT	512	13	525	463	42	505
WBR	279	0	279	223	0	223
EBU		7	7		5	5
North Leg						
Approach	817	1	818	546	5	551
Departure	608	4	612	865	3	868
Total	1,425	5	1,430	1,411	8	1,419
South Leg						
Approach	529	10	539	921	31	952
Departure	760	28	788	506	19	525
Total	1,289	38	1,327	1,427	50	1,477
East Leg						
Approach	854	13	867	721	42	763
Departure	507	37	544	762	25	787
Total	1,361	50	1,411	1,483	67	1,550
West Leg						
Approach	387	76	463	647	52	699
Departure	712	31	743	702	83	785
Total	1,099	107	1,206	1,349	135	1,484
Total Approaches						
Approach	2,587	100	2,687	2,835	130	2,965
Departure	2,587	100	2,687	2,835	130	2,965
Total	5,174	200	5,374	5,670	260	5,930

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Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
5 Minnewawa Avenue/Perrin Avenue						
NBL	96	0	96	161	0	161
NBT	523	10	533	1,069	31	1,100
NBR	18	0	18	18	0	18
SBL	3	0	3	4	0	4
SBT	962	28	990	597	19	616
SBR	140	0	140	111	0	111
EBL	85	0	85	129	0	129
EBT	129	0	129	179	0	179
EBR	121	0	121	149	0	149
WBL	22	0	22	23	0	23
WBT	144	0	144	177	0	177
WBR	4	0	4	5	0	5
North Leg						
Approach	1,105	28	1,133	712	19	731
Departure	612	10	622	1,203	31	1,234
Total	1,717	38	1,755	1,915	50	1,965
South Leg						
Approach	637	10	647	1,248	31	1,279
Departure	1,105	28	1,133	769	19	788
Total	1,742	38	1,780	2,017	50	2,067
East Leg						
Approach	170	0	170	205	0	205
Departure	150	0	150	201	0	201
Total	320	0	320	406	0	406
West Leg						
Approach	335	0	335	457	0	457
Departure	380	0	380	449	0	449
Total	715	0	715	906	0	906
Total Approaches						
Approach	2,247	38	2,285	2,622	50	2,672
Departure	2,247	38	2,285	2,622	50	2,672
Total	4,494	76	4,570	5,244	100	5,344

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Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
6 Minnewawa Avenue/Shepherd Avenue						
NBL	260	0	260	473	0	473
NBT	387	10	397	1,066	31	1,097
NBR	51	0	51	90	0	90
SBL	297	0	297	199	0	199
SBT	966	28	994	673	19	692
SBR	221	0	221	230	0	230
EBL	150	0	150	322	0	322
EBT	564	0	564	511	0	511
EBR	508	0	508	441	0	441
WBL	106	0	106	48	0	48
WBT	503	0	503	383	0	383
WBR	322	0	322	329	0	329
North Leg						
Approach	1,484	28	1,512	1,102	19	1,121
Departure	859	10	869	1,717	31	1,748
Total	2,343	38	2,381	2,819	50	2,869
South Leg						
Approach	698	10	708	1,629	31	1,660
Departure	1,580	28	1,608	1,162	19	1,181
Total	2,278	38	2,316	2,791	50	2,841
East Leg						
Approach	931	0	931	760	0	760
Departure	912	0	912	800	0	800
Total	1,843	0	1,843	1,560	0	1,560
West Leg						
Approach	1,222	0	1,222	1,274	0	1,274
Departure	984	0	984	1,086	0	1,086
Total	2,206	0	2,206	2,360	0	2,360
Total Approaches						
Approach	4,335	38	4,373	4,765	50	4,815
Departure	4,335	38	4,373	4,765	50	4,815
Total	8,670	76	8,746	9,530	100	9,630

LSA

Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
7 Peach Avenue/Project Driveway 1						
NBL	0	0	0	0	0	0
NBT	147	1	148	170	5	175
NBR	0	19	19	0	61	61
SBL	0	3	3	0	9	9
SBT	108	4	112	194	3	197
SBR	0	0	0	0	0	0
EBL	0	0	0	0	0	0
EBT	0	0	0	0	0	0
EBR	0	0	0	0	0	0
WBL	0	54	54	0	36	36
WBT	0	0	0	0	0	0
WBR	0	8	8	0	6	6
North Leg						
Approach	108	7	115	194	12	206
Departure	147	9	156	170	11	181
Total	255	16	271	364	23	387
South Leg						
Approach	147	20	167	170	66	236
Departure	108	58	166	194	39	233
Total	255	78	333	364	105	469
East Leg						
Approach	0	62	62	0	42	42
Departure	0	22	22	0	70	70
Total	0	84	84	0	112	112
West Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
Total Approaches						
Approach	255	89	344	364	120	484
Departure	255	89	344	364	120	484
Total	510	178	688	728	240	968

LSA

Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
8 Project Driveway 2/Behymer Avenue						
NBL	0	0	0	0	0	0
NBT	0	0	0	0	0	0
NBR	0	21	21	0	14	14
SBL	0	0	0	0	0	0
SBT	0	0	0	0	0	0
SBR	0	0	0	0	0	0
EBL	0	0	0	0	0	0
EBT	310	4	314	375	14	389
EBR	0	0	0	0	2	2
WBL	0	0	0	0	0	0
WBT	390	9	399	414	13	427
WBR	0	0	0	0	0	0
North Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
South Leg						
Approach	0	21	21	0	14	14
Departure	0	0	0	0	2	2
Total	0	21	21	0	16	16
East Leg						
Approach	390	9	399	414	13	427
Departure	310	25	335	375	28	403
Total	700	34	734	789	41	830
West Leg						
Approach	310	4	314	375	16	391
Departure	390	9	399	414	13	427
Total	700	13	713	789	29	818
Total Approaches						
Approach	700	34	734	789	43	832
Departure	700	34	734	789	43	832
Total	1,400	68	1,468	1,578	86	1,664

LSA

Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
9 Project Driveway 3/Behymer Avenue						
NBL	0	0	0	0	0	0
NBT	0	0	0	0	0	0
NBR	0	28	28	0	19	19
SBL	0	0	0	0	0	0
SBT	0	0	0	0	0	0
SBR	0	0	0	0	0	0
EBL	0	0	0	0	0	0
EBT	310	23	333	375	22	397
EBR	0	2	2	0	6	6
WBL	0	22	22	0	71	71
WBT	390	9	399	414	13	427
WBR	0	0	0	0	0	0
North Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
South Leg						
Approach	0	28	28	0	19	19
Departure	0	24	24	0	77	77
Total	0	52	52	0	96	96
East Leg						
Approach	390	31	421	414	84	498
Departure	310	51	361	375	41	416
Total	700	82	782	789	125	914
West Leg						
Approach	310	25	335	375	28	403
Departure	390	9	399	414	13	427
Total	700	34	734	789	41	830
Total Approaches						
Approach	700	84	784	789	131	920
Departure	700	84	784	789	131	920
Total	1,400	168	1,568	1,578	262	1,840

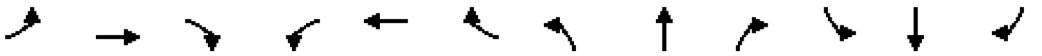
LSA

Table D-3 - Cumulative (2046) Peak Hour Volume Summary

	AM Peak Hour			PM Peak Hour		
	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project	Cumulative (2046) Without Project	Project Trips	Cumulative (2046) Plus Project
10 Project Driveway 4/Behymer Avenue						
NBL	0	0	0	0	0	0
NBT	0	0	0	0	0	0
NBR	0	28	28	0	19	19
SBL	0	0	0	0	0	0
SBT	0	0	0	0	0	0
SBR	0	0	0	0	0	0
EBL	0	0	0	0	0	0
EBT	310	48	358	375	33	408
EBR	0	2	2	0	8	8
WBL	0	0	0	0	0	0
WBT	390	31	421	414	84	498
WBR	0	0	0	0	0	0
North Leg						
Approach	0	0	0	0	0	0
Departure	0	0	0	0	0	0
Total	0	0	0	0	0	0
South Leg						
Approach	0	28	28	0	19	19
Departure	0	2	2	0	8	8
Total	0	30	30	0	27	27
East Leg						
Approach	390	31	421	414	84	498
Departure	310	76	386	375	52	427
Total	700	107	807	789	136	925
West Leg						
Approach	310	50	360	375	41	416
Departure	390	31	421	414	84	498
Total	700	81	781	789	125	914
Total Approaches						
Approach	700	109	809	789	144	933
Departure	700	109	809	789	144	933
Total	1,400	218	1,618	1,578	288	1,866

APPENDIX E

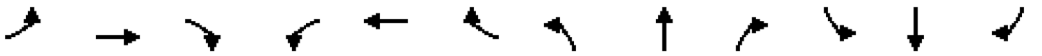
LEVEL OF SERVICE WORKSHEETS



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	84	222	267	547	289	330	193	784	265	148	913	57
Future Volume (veh/h)	84	222	267	547	289	330	193	784	265	148	913	57
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	87	229	275	564	298	340	199	808	273	153	941	59
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	3	3	3
Cap, veh/h	126	370	314	268	209	239	230	1690	525	183	1549	481
Arrive On Green	0.07	0.20	0.20	0.15	0.26	0.26	0.13	0.33	0.33	0.10	0.31	0.31
Sat Flow, veh/h	1767	1856	1572	1781	797	910	1781	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	87	229	275	564	0	638	199	808	273	153	941	59
Grp Sat Flow(s),veh/h/ln	1767	1856	1572	1781	0	1707	1781	1702	1585	1767	1689	1572
Q Serve(g_s), s	4.9	11.6	17.4	15.4	0.0	26.9	11.2	12.9	14.3	8.7	16.2	2.8
Cycle Q Clear(g_c), s	4.9	11.6	17.4	15.4	0.0	26.9	11.2	12.9	14.3	8.7	16.2	2.8
Prop In Lane	1.00		1.00	1.00		0.53	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	126	370	314	268	0	448	230	1690	525	183	1549	481
V/C Ratio(X)	0.69	0.62	0.88	2.11	0.00	1.42	0.87	0.48	0.52	0.83	0.61	0.12
Avail Cap(c_a), veh/h	238	425	361	268	0	448	255	1958	608	253	1942	603
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.5	37.5	39.8	43.5	0.0	37.8	43.8	27.3	27.7	45.1	30.3	25.7
Incr Delay (d2), s/veh	2.5	2.5	19.6	510.8	0.0	203.4	22.0	0.7	2.6	11.6	1.3	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	5.3	8.2	44.5	0.0	36.0	6.3	5.3	5.6	4.4	6.7	1.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	49.0	39.9	59.4	554.3	0.0	241.2	65.7	27.9	30.3	56.6	31.6	26.0
LnGrp LOS	D	D	E	F		F	E	C	C	E	C	C
Approach Vol, veh/h		591			1202			1280			1153	
Approach Delay, s/veh		50.3			388.1			34.3			34.6	
Approach LOS		D			F			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.5	37.0	13.5	33.4	15.9	39.6	20.0	26.9
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	13.2	18.2	6.9	28.9	10.7	16.3	17.4	19.4
Green Ext Time (p_c), s	0.0	13.1	0.0	0.0	0.1	14.1	0.0	1.0

Intersection Summary	
HCM 7th Control Delay, s/veh	137.3
HCM 7th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	278	119	209	197	181	76	160	861	134	45	1252	449
Future Volume (veh/h)	278	119	209	197	181	76	160	861	134	45	1252	449
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	287	123	215	203	187	78	165	888	138	46	1291	463
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	0	0	0	2	2	2	3	3	3
Cap, veh/h	338	340	288	249	247	209	274	2055	638	102	1930	599
Arrive On Green	0.19	0.18	0.18	0.14	0.13	0.13	0.08	0.40	0.40	0.06	0.38	0.38
Sat Flow, veh/h	1781	1870	1585	1810	1900	1610	3456	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	287	123	215	203	187	78	165	888	138	46	1291	463
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1810	1900	1610	1728	1702	1585	1767	1689	1572
Q Serve(g_s), s	15.6	5.8	12.8	10.9	9.5	4.4	4.6	12.6	5.7	2.5	21.2	25.8
Cycle Q Clear(g_c), s	15.6	5.8	12.8	10.9	9.5	4.4	4.6	12.6	5.7	2.5	21.2	25.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	338	340	288	249	247	209	274	2055	638	102	1930	599
V/C Ratio(X)	0.85	0.36	0.75	0.81	0.76	0.37	0.60	0.43	0.22	0.45	0.67	0.77
Avail Cap(c_a), veh/h	476	449	380	398	367	311	276	2055	638	171	1975	613
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.1	35.8	38.7	41.9	42.0	39.8	44.5	21.6	19.6	45.6	25.7	27.2
Incr Delay (d2), s/veh	16.3	1.8	10.8	16.0	12.4	3.0	2.5	0.5	0.6	1.2	1.5	8.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.1	2.7	5.7	5.9	5.3	1.9	2.1	5.0	2.1	1.1	8.5	10.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	55.4	37.6	49.6	57.9	54.4	42.8	47.1	22.1	20.1	46.7	27.2	35.4
LnGrp LOS	E	D	D	E	D	D	D	C	C	D	C	D
Approach Vol, veh/h		625			468			1191			1800	
Approach Delay, s/veh		49.9			54.0			25.3			29.8	
Approach LOS		D			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.2	43.8	24.3	18.7	11.1	46.0	19.1	23.9
Change Period (Y+Rc), s	5.3	5.7	5.3	5.7	5.3	5.7	5.3	5.7
Max Green Setting (Gmax), s	8.0	39.0	26.7	19.3	9.7	37.3	22.0	24.0
Max Q Clear Time (g_c+I1), s	6.6	27.8	17.6	11.5	4.5	14.6	12.9	14.8
Green Ext Time (p_c), s	0.0	10.3	1.4	1.5	0.0	14.0	0.9	2.0

Intersection Summary	
HCM 7th Control Delay, s/veh	34.4
HCM 7th LOS	C

Intersection	
Int Delay, s/veh	73.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	309	60	39	961	7	62	56	35	36	47	1
Future Vol, veh/h	0	309	60	39	961	7	62	56	35	36	47	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	1	1	1	0	0	0	0	0	0
Mvmt Flow	0	336	65	42	1045	8	67	61	38	39	51	1

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	1052	0	0	401	0	0	1523	1505	368	1499	1534	1048
Stage 1	-	-	-	-	-	-	368	368	-	1133	1133	-
Stage 2	-	-	-	-	-	-	1155	1137	-	366	401	-
Critical Hdwy	4.13	-	-	4.11	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.227	-	-	2.209	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	658	-	-	1163	-	-	98	122	682	102	117	279
Stage 1	-	-	-	-	-	-	655	625	-	249	280	-
Stage 2	-	-	-	-	-	-	242	279	-	657	604	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	658	-	-	1163	-	-	~ 48	112	682	42	107	279
Mov Cap-2 Maneuver	-	-	-	-	-	-	~ 48	112	-	42	107	-
Stage 1	-	-	-	-	-	-	655	625	-	227	256	-
Stage 2	-	-	-	-	-	-	176	255	-	560	604	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0	0.32	$ 568.33	$ 366.02
HCM LOS			F	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	84	658	-	-	70	-	-	64
HCM Lane V/C Ratio	1.991	-	-	-	0.036	-	-	1.418
HCM Control Delay (s/veh)	$ 568.3	0	-	-	8.2	0	-	$ 366
HCM Lane LOS	F	A	-	-	A	A	-	F
HCM 95th %tile Q(veh)	14.6	0	-	-	0.1	-	-	7.8

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Intersection Delay, s/veh	480.6
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	12	222	153	63	512	279	177	317	35	250	544	23
Future Vol, veh/h	12	222	153	63	512	279	177	317	35	250	544	23
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Heavy Vehicles, %	3	3	3	1	1	1	3	3	3	3	3	3
Mvmt Flow	12	229	158	65	528	288	182	327	36	258	561	24
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	136.2	630.6	281.2	616
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	33%	3%	7%	31%
Vol Thru, %	60%	57%	60%	67%
Vol Right, %	7%	40%	33%	3%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	529	387	854	817
LT Vol	177	12	63	250
Through Vol	317	222	512	544
RT Vol	35	153	279	23
Lane Flow Rate	545	399	880	842
Geometry Grp	1	1	1	1
Degree of Util (X)	1.466	1.044	2.307	2.268
Departure Headway (Hd)	19.313	21.735	14.634	15.645
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	196	172	255	244
Service Time	17.313	19.735	12.634	13.645
HCM Lane V/C Ratio	2.781	2.32	3.451	3.451
HCM Control Delay, s/veh	281.2	136.2	630.6	616
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	16.9	8.5	44.9	41.2

Intersection	
Int Delay, s/veh	522

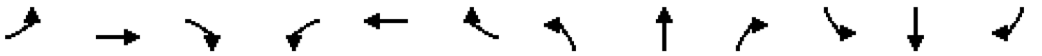
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	85	129	121	22	144	4	96	523	18	3	962	140
Future Vol, veh/h	85	129	121	22	144	4	96	523	18	3	962	140
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	3	3	3	3	3	3
Mvmt Flow	92	140	132	24	157	4	104	568	20	3	1046	152

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1984	1925	1122	1909	1991	578	1198	0	0	588	0	0
Stage 1	1128	1128	-	787	787	-	-	-	-	-	-	-
Stage 2	855	797	-	1122	1204	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	~ 46	~ 67	251	52	~ 61	515	579	-	-	982	-	-
Stage 1	248	279	-	385	403	-	-	-	-	-	-	-
Stage 2	353	399	-	250	257	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 33	~ 48	251	~ 18	~ 44	515	579	-	-	982	-	-
Mov Cap-2 Maneuver	~ 33	~ 48	-	~ 18	~ 44	-	-	-	-	-	-	-
Stage 1	246	276	-	282	295	-	-	-	-	-	-	-
Stage 2	120	292	-	58	254	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/veh	$ 2494.76	$ 1976.85	1.9	0.02
HCM LOS	F	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	269	-	-	58	38	5	-	-
HCM Lane V/C Ratio	0.18	-	-	6.237	4.918	0.003	-	-
HCM Control Delay (s/veh)	12.6	0	-	$ 2494.8	$ 1976.9	8.7	0	-
HCM Lane LOS	B	A	-	F	F	A	A	-
HCM 95th %tile Q(veh)	0.7	-	-	41.5	21.6	0	-	-

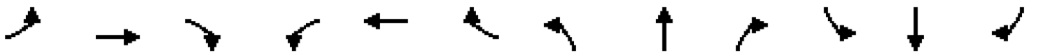
Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	150	564	508	106	503	322	260	387	51	297	966	221
Future Volume (veh/h)	150	564	508	106	503	322	260	387	51	297	966	221
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	163	613	552	115	547	350	283	421	55	323	1050	240
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	190	1050	468	156	517	438	304	517	438	304	517	438
Arrive On Green	0.11	0.30	0.30	0.09	0.28	0.28	0.17	0.28	0.28	0.17	0.28	0.28
Sat Flow, veh/h	1767	3526	1572	1767	1856	1572	1767	1856	1572	1767	1856	1572
Grp Volume(v), veh/h	163	613	552	115	547	350	283	421	55	323	1050	240
Grp Sat Flow(s),veh/h/ln	1767	1763	1572	1767	1856	1572	1767	1856	1572	1767	1856	1572
Q Serve(g_s), s	11.1	18.1	36.4	7.8	34.0	25.2	19.3	25.9	3.2	21.0	34.0	15.9
Cycle Q Clear(g_c), s	11.1	18.1	36.4	7.8	34.0	25.2	19.3	25.9	3.2	21.0	34.0	15.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	190	1050	468	156	517	438	304	517	438	304	517	438
V/C Ratio(X)	0.86	0.58	1.18	0.74	1.06	0.80	0.93	0.82	0.13	1.06	2.03	0.55
Avail Cap(c_a), veh/h	304	1050	468	304	517	438	304	517	438	304	517	438
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.6	36.5	42.9	54.3	44.1	40.9	49.9	41.1	33.0	50.6	44.1	37.5
Incr Delay (d2), s/veh	7.5	1.1	100.8	2.5	56.1	10.9	33.6	9.8	0.1	69.3	471.5	1.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.1	7.6	26.5	3.4	22.9	10.6	11.1	12.8	1.2	15.1	83.1	6.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	61.1	37.5	143.7	56.8	100.2	51.8	83.5	51.0	33.1	119.9	515.6	39.4
LnGrp LOS	E	D	F	E	F	D	F	D	C	F	F	D
Approach Vol, veh/h		1328			1012			759			1613	
Approach Delay, s/veh		84.6			78.5			61.8			365.5	
Approach LOS		F			E			E			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	25.0	40.0	17.1	40.0	25.0	40.0	14.8	42.4
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	21.3	36.0	13.1	36.0	23.0	27.9	9.8	38.4
Green Ext Time (p_c), s	0.0	0.0	0.1	0.0	0.0	1.4	0.1	0.0

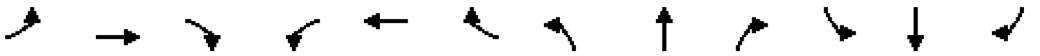
Intersection Summary	
HCM 7th Control Delay, s/veh	175.8
HCM 7th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	254	237	526	252	254	215	889	670	244	655	42
Future Volume (veh/h)	22	254	237	526	252	254	215	889	670	244	655	42
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1885	1885	1885	1885	1885	1885
Adj Flow Rate, veh/h	24	276	258	572	274	276	234	966	728	265	712	46
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	1	1	1	1	1	1
Cap, veh/h	67	347	294	244	231	233	235	1800	559	235	1800	559
Arrive On Green	0.04	0.19	0.19	0.14	0.27	0.27	0.13	0.35	0.35	0.13	0.35	0.35
Sat Flow, veh/h	1781	1870	1585	1781	855	861	1795	5147	1598	1795	5147	1598
Grp Volume(v), veh/h	24	276	258	572	0	550	234	966	728	265	712	46
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1781	0	1715	1795	1716	1598	1795	1716	1598
Q Serve(g_s), s	1.5	15.8	17.8	15.4	0.0	30.4	14.6	16.9	39.3	14.7	11.7	2.2
Cycle Q Clear(g_c), s	1.5	15.8	17.8	15.4	0.0	30.4	14.6	16.9	39.3	14.7	11.7	2.2
Prop In Lane	1.00		1.00	1.00		0.50	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	67	347	294	244	0	465	235	1800	559	235	1800	559
V/C Ratio(X)	0.36	0.80	0.88	2.34	0.00	1.18	1.00	0.54	1.30	1.13	0.40	0.08
Avail Cap(c_a), veh/h	219	391	332	244	0	465	235	1800	559	235	1800	559
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.7	43.7	44.5	48.5	0.0	41.0	48.8	29.2	36.5	48.8	27.6	24.4
Incr Delay (d2), s/veh	1.2	10.3	21.3	616.7	0.0	102.9	57.5	0.8	148.8	97.5	0.5	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	8.1	8.5	48.5	0.0	25.6	10.3	7.0	37.7	12.9	4.9	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	53.9	54.0	65.8	665.1	0.0	143.9	106.3	30.1	185.3	146.3	28.0	24.6
LnGrp LOS	D	D	E	F		F	F	C	F	F	C	C
Approach Vol, veh/h		558			1122			1928			1023	
Approach Delay, s/veh		59.4			409.6			97.9			58.5	
Approach LOS		E			F			F			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.0	45.0	10.4	36.9	20.0	45.0	20.0	27.3
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	16.6	13.7	3.5	32.4	16.7	41.3	17.4	19.8
Green Ext Time (p_c), s	0.0	11.4	0.0	0.0	0.0	0.0	0.0	1.0

Intersection Summary	
HCM 7th Control Delay, s/veh	160.1
HCM 7th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	449	233	333	246	197	107	273	1373	280	120	908	401
Future Volume (veh/h)	449	233	333	246	197	107	273	1373	280	120	908	401
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	473	245	351	259	207	113	287	1445	295	126	956	422
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	1	1	1	0	0	0
Cap, veh/h	436	411	349	297	266	225	251	1715	532	142	1808	561
Arrive On Green	0.24	0.22	0.22	0.16	0.14	0.14	0.07	0.33	0.33	0.08	0.35	0.35
Sat Flow, veh/h	1810	1900	1610	1810	1900	1610	3483	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	473	245	351	259	207	113	287	1445	295	126	956	422
Grp Sat Flow(s),veh/h/ln	1810	1900	1610	1810	1900	1610	1742	1716	1598	1810	1729	1610
Q Serve(g_s), s	26.7	12.9	24.0	15.5	11.7	7.2	8.0	28.9	16.7	7.6	16.3	25.6
Cycle Q Clear(g_c), s	26.7	12.9	24.0	15.5	11.7	7.2	8.0	28.9	16.7	7.6	16.3	25.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	436	411	349	297	266	225	251	1715	532	142	1808	561
V/C Ratio(X)	1.09	0.60	1.01	0.87	0.78	0.50	1.14	0.84	0.55	0.89	0.53	0.75
Avail Cap(c_a), veh/h	436	411	349	359	331	280	251	1732	538	142	1825	566
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	42.1	39.1	43.4	45.2	46.0	44.1	51.4	34.3	30.2	50.6	28.8	31.9
Incr Delay (d2), s/veh	68.0	4.2	49.9	22.7	14.5	4.7	100.4	4.8	3.2	42.9	0.8	7.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	19.7	6.3	14.1	8.8	6.5	3.1	7.0	12.6	6.7	5.1	6.9	10.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	110.1	43.3	93.4	67.9	60.5	48.8	151.9	39.1	33.4	93.4	29.7	39.8
LnGrp LOS	F	D	F	E	E	D	F	D	C	F	C	D
Approach Vol, veh/h		1069			579			2027			1504	
Approach Delay, s/veh		89.3			61.5			54.2			37.9	
Approach LOS		F			E			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.3	44.3	32.0	21.2	15.0	42.6	23.5	29.7
Change Period (Y+Rc), s	5.3	5.7	5.3	5.7	6.3	5.7	5.3	5.7
Max Green Setting (Gmax), s	8.0	39.0	26.7	19.3	8.7	37.3	22.0	24.0
Max Q Clear Time (g_c+I1), s	10.0	27.6	28.7	13.7	9.6	30.9	17.5	26.0
Green Ext Time (p_c), s	0.0	9.4	0.0	1.4	0.0	6.1	0.8	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	57.5
HCM 7th LOS	E

Intersection	
Int Delay, s/veh	1808.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	1	772	83	48	620	36	95	74	54	10	75	1
Future Vol, veh/h	1	772	83	48	620	36	95	74	54	10	75	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	821	88	51	660	38	101	79	57	11	80	1

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	698	0	0	910	0	0	1669	1668	865	1644	1693	679
Stage 1	-	-	-	-	-	-	868	868	-	781	781	-
Stage 2	-	-	-	-	-	-	802	800	-	863	912	-
Critical Hdwy	4.12	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.218	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	898	-	-	757	-	-	~ 77	97	356	81	94	455
Stage 1	-	-	-	-	-	-	350	373	-	391	408	-
Stage 2	-	-	-	-	-	-	381	400	-	352	356	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	898	-	-	757	-	-	~ 3	86	356	~ 6	83	455
Mov Cap-2 Maneuver	-	-	-	-	-	-	~ 3	86	-	~ 6	83	-
Stage 1	-	-	-	-	-	-	349	372	-	348	363	-
Stage 2	-	-	-	-	-	-	263	356	-	232	355	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.01	0.69	$ 14749.01	$ 1047.33
HCM LOS			F	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	7	2	-	-	121	-	-	33
HCM Lane V/C Ratio	31.633	0.001	-	-	0.067	-	-	2.755
HCM Control Delay (s/veh)	$ 14749	9	0	-	10.1	0	-	$ 1047.3
HCM Lane LOS	F	A	A	-	B	A	-	F
HCM 95th %tile Q(veh)	31.5	0	-	-	0.2	-	-	10.5

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Intersection Delay, s/veh	560.3
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	14	472	161	35	463	223	229	628	64	226	310	10
Future Vol, veh/h	14	472	161	35	463	223	229	628	64	226	310	10
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	2	2	2	0	0	0	2	2	2	3	3	3
Mvmt Flow	15	508	173	38	498	240	246	675	69	243	333	11
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	445.4	526.3	793.7	347.5
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	25%	2%	5%	41%
Vol Thru, %	68%	73%	64%	57%
Vol Right, %	7%	25%	31%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	921	647	721	546
LT Vol	229	14	35	226
Through Vol	628	472	463	310
RT Vol	64	161	223	10
Lane Flow Rate	990	696	775	587
Geometry Grp	1	1	1	1
Degree of Util (X)	2.652	1.833	2.029	1.585
Departure Headway (Hd)	18.567	22.768	21.387	25.128
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	208	167	178	153
Service Time	16.567	20.768	19.387	23.128
HCM Lane V/C Ratio	4.76	4.168	4.354	3.837
HCM Control Delay, s/veh	793.7	445.4	526.3	347.5
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	44.4	21.5	26.5	15.8

Intersection	
Int Delay, s/veh	1955.5

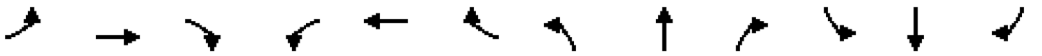
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	129	179	149	23	177	5	161	1069	18	4	597	111
Future Vol, veh/h	129	179	149	23	177	5	161	1069	18	4	597	111
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	3	3	3
Mvmt Flow	136	188	157	24	186	5	169	1125	19	4	628	117

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	2253	2178	687	2205	2227	1135	745	0	0	1144	0	0
Stage 1	695	695	-	1474	1474	-	-	-	-	-	-	-
Stage 2	1557	1483	-	731	754	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.227	-	-
Pot Cap-1 Maneuver	~ 29	~ 46	447	32	~ 43	246	863	-	-	607	-	-
Stage 1	432	444	-	158	191	-	-	-	-	-	-	-
Stage 2	141	189	-	413	417	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 13	~ 21	447	~ 9	~ 19	246	863	-	-	607	-	-
Mov Cap-2 Maneuver	~ 13	~ 21	-	~ 9	~ 19	-	-	-	-	-	-	-
Stage 1	427	438	-	72	~ 87	-	-	-	-	-	-	-
Stage 2	-	~ 86	-	151	412	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	$ 8767.32	$ 5458.01	1.31	0.06
HCM LOS	F	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	231	-	-	24	18	10	-	-
HCM Lane V/C Ratio	0.196	-	-	19.802	12.193	0.007	-	-
HCM Control Delay (s/veh)	10.2	0	-	$ 8767.3	$ 5458	11	0	-
HCM Lane LOS	B	A	-	F	F	B	A	-
HCM 95th %tile Q(veh)	0.7	-	-	60.1	27.7	0	-	-

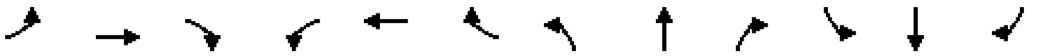
Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	322	511	441	48	383	329	473	1066	90	199	673	230
Future Volume (veh/h)	322	511	441	48	383	329	473	1066	90	199	673	230
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	339	538	464	51	403	346	498	1122	95	209	708	242
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	2	2	2	3	3	3
Cap, veh/h	300	1215	542	131	462	392	295	562	476	235	497	421
Arrive On Green	0.17	0.34	0.34	0.07	0.24	0.24	0.17	0.30	0.30	0.13	0.27	0.27
Sat Flow, veh/h	1810	3610	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Grp Volume(v), veh/h	339	538	464	51	403	346	498	1122	95	209	708	242
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Q Serve(g_s), s	21.0	14.7	34.1	3.4	25.8	26.3	21.0	38.1	5.7	14.8	34.0	16.9
Cycle Q Clear(g_c), s	21.0	14.7	34.1	3.4	25.8	26.3	21.0	38.1	5.7	14.8	34.0	16.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	300	1215	542	131	462	392	295	562	476	235	497	421
V/C Ratio(X)	1.13	0.44	0.86	0.39	0.87	0.88	1.69	2.00	0.20	0.89	1.42	0.57
Avail Cap(c_a), veh/h	300	1215	542	300	509	432	295	562	476	293	497	421
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.9	32.8	39.2	56.2	46.1	46.3	52.9	44.4	33.0	54.1	46.4	40.2
Incr Delay (d2), s/veh	92.4	0.4	13.3	0.7	15.3	19.0	324.3	454.3	0.2	20.7	202.1	2.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	16.9	6.3	14.8	1.5	13.7	12.2	35.7	87.9	2.1	7.9	43.5	6.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	145.3	33.2	52.5	56.9	61.4	65.3	377.3	498.7	33.2	74.8	248.6	42.5
LnGrp LOS	F	C	D	E	E	E	F	F	C	E	F	D
Approach Vol, veh/h		1341			800			1715			1159	
Approach Delay, s/veh		68.2			62.8			437.7			174.2	
Approach LOS		E			E			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	25.0	40.0	25.0	36.9	20.9	44.1	13.2	48.7
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	23.0	36.0	23.0	28.3	16.8	40.1	5.4	36.1
Green Ext Time (p_c), s	0.0	0.0	0.0	2.6	0.1	0.0	0.0	0.0

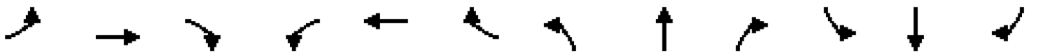
Intersection Summary	
HCM 7th Control Delay, s/veh	218.2
HCM 7th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	84	223	267	547	293	337	193	784	265	150	913	57
Future Volume (veh/h)	84	223	267	547	293	337	193	784	265	150	913	57
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	87	230	275	564	302	347	199	808	273	155	941	59
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	3	3	3
Cap, veh/h	126	370	314	268	208	239	230	1684	523	186	1549	481
Arrive On Green	0.07	0.20	0.20	0.15	0.26	0.26	0.13	0.33	0.33	0.10	0.31	0.31
Sat Flow, veh/h	1767	1856	1572	1781	794	912	1781	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	87	230	275	564	0	649	199	808	273	155	941	59
Grp Sat Flow(s),veh/h/ln	1767	1856	1572	1781	0	1706	1781	1702	1585	1767	1689	1572
Q Serve(g_s), s	4.9	11.6	17.4	15.4	0.0	26.9	11.2	12.9	14.3	8.8	16.2	2.8
Cycle Q Clear(g_c), s	4.9	11.6	17.4	15.4	0.0	26.9	11.2	12.9	14.3	8.8	16.2	2.8
Prop In Lane	1.00		1.00	1.00		0.53	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	126	370	314	268	0	448	230	1684	523	186	1549	481
V/C Ratio(X)	0.69	0.62	0.88	2.11	0.00	1.45	0.87	0.48	0.52	0.84	0.61	0.12
Avail Cap(c_a), veh/h	238	425	361	268	0	448	255	1958	608	253	1942	603
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.5	37.5	39.8	43.5	0.0	37.8	43.8	27.3	27.8	45.0	30.3	25.7
Incr Delay (d2), s/veh	2.5	2.5	19.6	510.8	0.0	214.2	22.0	0.7	2.6	12.1	1.3	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	5.4	8.2	44.5	0.0	37.4	6.3	5.3	5.6	4.5	6.7	1.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	49.0	40.0	59.4	554.3	0.0	252.0	65.7	28.0	30.4	57.1	31.6	26.0
LnGrp LOS	D	D	E	F		F	E	C	C	E	C	C
Approach Vol, veh/h		592			1213			1280			1155	
Approach Delay, s/veh		50.4			392.6			34.4			34.7	
Approach LOS		D			F			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.5	37.0	13.5	33.4	16.1	39.5	20.0	26.9
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	13.2	18.2	6.9	28.9	10.8	16.3	17.4	19.4
Green Ext Time (p_c), s	0.0	13.1	0.0	0.0	0.1	14.1	0.0	1.0

Intersection Summary	
HCM 7th Control Delay, s/veh	139.2
HCM 7th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	278	126	209	197	200	76	160	861	134	45	1252	449
Future Volume (veh/h)	278	126	209	197	200	76	160	861	134	45	1252	449
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	287	130	215	203	206	78	165	888	138	46	1291	463
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	0	0	0	2	2	2	3	3	3
Cap, veh/h	337	357	302	249	264	223	270	1979	614	101	1908	592
Arrive On Green	0.19	0.19	0.19	0.14	0.14	0.14	0.08	0.39	0.39	0.06	0.38	0.38
Sat Flow, veh/h	1781	1870	1585	1810	1900	1610	3456	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	287	130	215	203	206	78	165	888	138	46	1291	463
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1810	1900	1610	1728	1702	1585	1767	1689	1572
Q Serve(g_s), s	15.8	6.1	12.9	11.0	10.6	4.4	4.7	13.1	5.9	2.6	21.6	26.4
Cycle Q Clear(g_c), s	15.8	6.1	12.9	11.0	10.6	4.4	4.7	13.1	5.9	2.6	21.6	26.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	337	357	302	249	264	223	270	1979	614	101	1908	592
V/C Ratio(X)	0.85	0.36	0.71	0.82	0.78	0.35	0.61	0.45	0.22	0.45	0.68	0.78
Avail Cap(c_a), veh/h	469	443	375	393	362	307	273	1979	614	152	1949	605
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.7	35.7	38.4	42.5	42.2	39.5	45.2	23.0	20.8	46.2	26.4	27.9
Incr Delay (d2), s/veh	16.7	1.7	9.0	16.4	14.0	2.6	2.8	0.5	0.6	1.2	1.6	8.8
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.2	2.9	5.6	6.0	6.0	1.9	2.1	5.2	2.2	1.2	8.7	10.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	56.4	37.4	47.4	58.8	56.1	42.1	48.0	23.5	21.4	47.4	28.0	36.7
LnGrp LOS	E	D	D	E	E	D	D	C	C	D	C	D
Approach Vol, veh/h		632			487			1191			1800	
Approach Delay, s/veh		49.4			55.0			26.7			30.8	
Approach LOS		D			E			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.2	43.9	24.5	19.8	12.1	45.0	19.2	25.0
Change Period (Y+Rc), s	5.3	5.7	5.3	5.7	6.3	5.7	5.3	5.7
Max Green Setting (Gmax), s	8.0	39.0	26.7	19.3	8.7	37.3	22.0	24.0
Max Q Clear Time (g_c+I1), s	6.7	28.4	17.8	12.6	4.6	15.1	13.0	14.9
Green Ext Time (p_c), s	0.0	9.8	1.4	1.4	0.0	13.8	0.9	2.0

Intersection Summary	
HCM 7th Control Delay, s/veh	35.3
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	93.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	312	60	45	964	7	70	56	36	36	47	1
Future Vol, veh/h	0	312	60	45	964	7	70	56	36	36	47	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	1	1	1	0	0	0	0	0	0
Mvmt Flow	0	339	65	49	1048	8	76	61	39	39	51	1

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	1055	0	0	404	0	0	1543	1525	372	1519	1554	1052
Stage 1	-	-	-	-	-	-	372	372	-	1149	1149	-
Stage 2	-	-	-	-	-	-	1171	1153	-	370	404	-
Critical Hdwy	4.13	-	-	4.11	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.227	-	-	2.209	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	656	-	-	1160	-	-	95	119	679	98	114	278
Stage 1	-	-	-	-	-	-	653	623	-	244	275	-
Stage 2	-	-	-	-	-	-	237	274	-	655	602	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	656	-	-	1160	-	-	~ 45	107	679	~ 38	103	278
Mov Cap-2 Maneuver	-	-	-	-	-	-	~ 45	107	-	~ 38	103	-
Stage 1	-	-	-	-	-	-	653	623	-	219	247	-
Stage 2	-	-	-	-	-	-	168	246	-	557	602	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0	0.36	$ 722.9	$ 420.75
HCM LOS			F	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	76	656	-	-	80	-	-	60
HCM Lane V/C Ratio	2.325	-	-	-	0.042	-	-	1.53
HCM Control Delay (s/veh)	$ 722.9	0	-	-	8.2	0	-	$ 420.8
HCM Lane LOS	F	A	-	-	A	A	-	F
HCM 95th %tile Q(veh)	16.5	0	-	-	0.1	-	-	8.2

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Intersection Delay, s/veh	492.8
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	16	259	181	63	525	279	187	317	35	250	544	24
Future Vol, veh/h	16	259	181	63	525	279	187	317	35	250	544	24
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Heavy Vehicles, %	3	3	3	1	1	1	3	3	3	3	3	3
Mvmt Flow	16	267	187	65	541	288	193	327	36	258	561	25
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	199.1	649.5	296.9	619.6
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	35%	4%	7%	31%
Vol Thru, %	59%	57%	61%	67%
Vol Right, %	6%	40%	32%	3%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	539	456	867	818
LT Vol	187	16	63	250
Through Vol	317	259	525	544
RT Vol	35	181	279	24
Lane Flow Rate	556	470	894	843
Geometry Grp	1	1	1	1
Degree of Util (X)	1.494	1.23	2.343	2.27
Departure Headway (Hd)	20.679	22.13	15.793	16.701
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	183	169	241	228
Service Time	18.679	20.13	13.793	14.701
HCM Lane V/C Ratio	3.038	2.781	3.71	3.697
HCM Control Delay, s/veh	296.9	199.1	649.5	619.6
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	16.6	11.3	42.9	38.9

Intersection	
Int Delay, s/veh	563.3

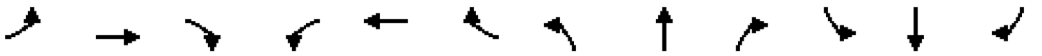
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	85	129	121	22	144	4	96	533	18	3	990	140
Future Vol, veh/h	85	129	121	22	144	4	96	533	18	3	990	140
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	3	3	3	3	3	3
Mvmt Flow	92	140	132	24	157	4	104	579	20	3	1076	152

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	2025	1966	1152	1951	2033	589	1228	0	0	599	0	0
Stage 1	1159	1159	-	798	798	-	-	-	-	-	-	-
Stage 2	866	808	-	1153	1235	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	~ 43	~ 63	241	48	~ 57	508	564	-	-	973	-	-
Stage 1	238	270	-	380	398	-	-	-	-	-	-	-
Stage 2	348	394	-	240	249	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 30	~ 45	241	~ 16	~ 41	508	564	-	-	973	-	-
Mov Cap-2 Maneuver	~ 30	~ 45	-	~ 16	~ 41	-	-	-	-	-	-	-
Stage 1	236	267	-	274	287	-	-	-	-	-	-	-
Stage 2	113	284	-	51	246	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	$ 2721.78	$ 2200.21	1.9	0.02
HCM LOS	F	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	265	-	-	54	34	5	-	-
HCM Lane V/C Ratio	0.185	-	-	6.721	5.376	0.003	-	-
HCM Control Delay (s/veh)	12.8	0	-	$ 2721.8	$ 2200.2	8.7	0	-
HCM Lane LOS	B	A	-	F	F	A	A	-
HCM 95th %tile Q(veh)	0.7	-	-	42	22	0	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	150	564	508	106	503	322	260	397	51	297	994	221
Future Volume (veh/h)	150	564	508	106	503	322	260	397	51	297	994	221
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	163	613	552	115	547	350	283	432	55	323	1080	240
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	190	1050	468	156	517	438	304	517	438	304	517	438
Arrive On Green	0.11	0.30	0.30	0.09	0.28	0.28	0.17	0.28	0.28	0.17	0.28	0.28
Sat Flow, veh/h	1767	3526	1572	1767	1856	1572	1767	1856	1572	1767	1856	1572
Grp Volume(v), veh/h	163	613	552	115	547	350	283	432	55	323	1080	240
Grp Sat Flow(s),veh/h/ln	1767	1763	1572	1767	1856	1572	1767	1856	1572	1767	1856	1572
Q Serve(g_s), s	11.1	18.1	36.4	7.8	34.0	25.2	19.3	26.7	3.2	21.0	34.0	15.9
Cycle Q Clear(g_c), s	11.1	18.1	36.4	7.8	34.0	25.2	19.3	26.7	3.2	21.0	34.0	15.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	190	1050	468	156	517	438	304	517	438	304	517	438
V/C Ratio(X)	0.86	0.58	1.18	0.74	1.06	0.80	0.93	0.84	0.13	1.06	2.09	0.55
Avail Cap(c_a), veh/h	304	1050	468	304	517	438	304	517	438	304	517	438
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.6	36.5	42.9	54.3	44.1	40.9	49.9	41.5	33.0	50.6	44.1	37.5
Incr Delay (d2), s/veh	7.5	1.1	100.8	2.5	56.1	10.9	33.6	11.5	0.1	69.3	497.5	1.9
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.1	7.6	26.5	3.4	22.9	10.6	11.1	13.4	1.2	15.1	86.8	6.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	61.1	37.5	143.7	56.8	100.2	51.8	83.5	53.0	33.1	119.9	541.6	39.4
LnGrp LOS	E	D	F	E	F	D	F	D	C	F	F	D
Approach Vol, veh/h		1328			1012			770			1643	
Approach Delay, s/veh		84.6			78.5			62.8			385.3	
Approach LOS		F			E			E			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	25.0	40.0	17.1	40.0	25.0	40.0	14.8	42.4
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	21.3	36.0	13.1	36.0	23.0	28.7	9.8	38.4
Green Ext Time (p_c), s	0.0	0.0	0.1	0.0	0.0	1.3	0.1	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	183.7
HCM 7th LOS	F

Intersection	
Int Delay, s/veh	2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	54	8	148	19	3	112
Future Vol, veh/h	54	8	148	19	3	112
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	59	9	161	21	3	122

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	299	171	0	0	182	0
Stage 1	171	-	-	-	-	-
Stage 2	128	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	692	873	-	-	1394	-
Stage 1	859	-	-	-	-	-
Stage 2	898	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	690	873	-	-	1394	-
Mov Cap-2 Maneuver	690	-	-	-	-	-
Stage 1	859	-	-	-	-	-
Stage 2	895	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	10.61	0	0.2
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	709	47	-
HCM Lane V/C Ratio	-	-	0.095	0.002	-
HCM Control Delay (s/veh)	-	-	10.6	7.6	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.3	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	314	0	0	399	0	21
Future Vol, veh/h	314	0	0	399	0	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	341	0	0	434	0	23

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	341
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	701
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	701
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.31
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	701	-	-	-
HCM Lane V/C Ratio	0.033	-	-	-
HCM Control Delay (s/veh)	10.3	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-

Intersection	
Int Delay, s/veh	0.6

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	333	2	22	399	0	28
Future Vol, veh/h	333	2	22	399	0	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	362	2	24	434	0	30

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	364	0	-	363
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	4.12	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	2.218	-	-	3.318
Pot Cap-1 Maneuver	-	-	1194	-	0	682
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1194	-	-	682
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.42	10.53
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	682	-	-	1194	-
HCM Lane V/C Ratio	0.045	-	-	0.02	-
HCM Control Delay (s/veh)	10.5	-	-	8.1	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

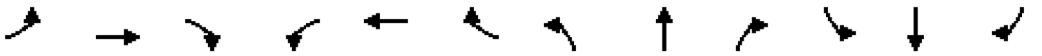
Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑			↑		↱
Traffic Vol, veh/h	358	2	0	421	0	28
Future Vol, veh/h	358	2	0	421	0	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	389	2	0	458	0	30

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	390
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	658
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	658
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.73
HCM LOS			B

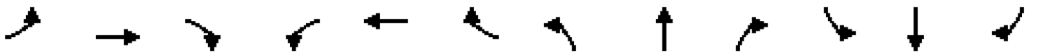
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	658	-	-	-
HCM Lane V/C Ratio	0.046	-	-	-
HCM Control Delay (s/veh)	10.7	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	259	237	526	255	259	215	889	670	252	655	42
Future Volume (veh/h)	22	259	237	526	255	259	215	889	670	252	655	42
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	24	282	258	572	277	282	234	966	728	274	712	46
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	0	0	0	1	1	1	0	0	0
Cap, veh/h	67	347	294	248	234	238	235	1800	559	237	1814	563
Arrive On Green	0.04	0.19	0.19	0.14	0.27	0.27	0.13	0.35	0.35	0.13	0.35	0.35
Sat Flow, veh/h	1781	1870	1585	1810	863	879	1795	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	24	282	258	572	0	559	234	966	728	274	712	46
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1810	0	1742	1795	1716	1598	1810	1729	1610
Q Serve(g_s), s	1.5	16.2	17.8	15.4	0.0	30.4	14.6	16.9	39.3	14.7	11.6	2.1
Cycle Q Clear(g_c), s	1.5	16.2	17.8	15.4	0.0	30.4	14.6	16.9	39.3	14.7	11.6	2.1
Prop In Lane	1.00		1.00	1.00		0.50	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	67	347	294	248	0	472	235	1800	559	237	1814	563
V/C Ratio(X)	0.36	0.81	0.88	2.31	0.00	1.18	1.00	0.54	1.30	1.16	0.39	0.08
Avail Cap(c_a), veh/h	219	391	332	248	0	472	235	1800	559	237	1814	563
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.7	43.9	44.5	48.5	0.0	41.0	48.8	29.2	36.5	48.8	27.5	24.4
Incr Delay (d2), s/veh	1.2	11.6	21.2	600.3	0.0	102.9	57.5	0.8	148.9	107.6	0.4	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	8.4	8.5	48.1	0.0	26.1	10.3	7.0	37.7	13.7	4.9	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	54.0	55.5	65.7	648.8	0.0	143.9	106.3	30.1	185.4	156.4	28.0	24.6
LnGrp LOS	D	E	E	F		F	F	C	F	F	C	C
Approach Vol, veh/h		564			1131			1928			1032	
Approach Delay, s/veh		60.1			399.2			98.0			61.9	
Approach LOS		E			F			F			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.0	45.0	10.4	36.9	20.0	45.0	20.0	27.4
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	16.6	13.6	3.5	32.4	16.7	41.3	17.4	19.8
Green Ext Time (p_c), s	0.0	11.4	0.0	0.0	0.0	0.0	0.0	1.1

Intersection Summary	
HCM 7th Control Delay, s/veh	158.6
HCM 7th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	449	255	333	246	210	107	273	1373	280	120	908	401
Future Volume (veh/h)	449	255	333	246	210	107	273	1373	280	120	908	401
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	473	268	351	259	221	113	287	1445	295	126	956	422
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	1	1	1	0	0	0
Cap, veh/h	435	415	352	297	271	229	251	1710	531	142	1803	560
Arrive On Green	0.24	0.22	0.22	0.16	0.14	0.14	0.07	0.33	0.33	0.08	0.35	0.35
Sat Flow, veh/h	1810	1900	1610	1810	1900	1610	3483	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	473	268	351	259	221	113	287	1445	295	126	956	422
Grp Sat Flow(s),veh/h/ln	1810	1900	1610	1810	1900	1610	1742	1716	1598	1810	1729	1610
Q Serve(g_s), s	26.7	14.3	24.2	15.5	12.6	7.2	8.0	29.0	16.8	7.7	16.4	25.8
Cycle Q Clear(g_c), s	26.7	14.3	24.2	15.5	12.6	7.2	8.0	29.0	16.8	7.7	16.4	25.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	435	415	352	297	271	229	251	1710	531	142	1803	560
V/C Ratio(X)	1.09	0.65	1.00	0.87	0.82	0.49	1.15	0.84	0.56	0.89	0.53	0.75
Avail Cap(c_a), veh/h	435	415	352	358	330	279	251	1726	536	142	1819	565
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	42.2	39.5	43.4	45.3	46.3	44.0	51.6	34.5	30.4	50.8	29.0	32.1
Incr Delay (d2), s/veh	69.2	5.5	47.5	22.9	17.8	4.5	101.7	4.9	3.2	43.6	0.8	8.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	19.9	7.1	14.0	8.8	7.2	3.1	7.0	12.7	6.7	5.2	6.9	10.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	111.4	45.0	90.9	68.2	64.1	48.4	153.3	39.4	33.6	94.4	29.9	40.1
LnGrp LOS	F	D	F	E	E	D	F	D	C	F	C	D
Approach Vol, veh/h		1092			593			2027			1504	
Approach Delay, s/veh		88.5			62.9			54.7			38.1	
Approach LOS		F			E			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.3	44.3	32.0	21.5	15.0	42.6	23.6	30.0
Change Period (Y+Rc), s	5.3	5.7	5.3	5.7	6.3	5.7	5.3	5.7
Max Green Setting (Gmax), s	8.0	39.0	26.7	19.3	8.7	37.3	22.0	24.0
Max Q Clear Time (g_c+I1), s	10.0	27.8	28.7	14.6	9.7	31.0	17.5	26.2
Green Ext Time (p_c), s	0.0	9.4	0.0	1.3	0.0	6.0	0.7	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	57.9
HCM 7th LOS	E

Intersection	
Int Delay, s/veh	674.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	1	783	85	59	622	36	101	74	59	10	75	1
Future Vol, veh/h	1	783	85	59	622	36	101	74	59	10	75	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	833	90	63	662	38	107	79	63	11	80	1

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	700	0	0	923	0	0	1707	1706	878	1681	1732	681
Stage 1	-	-	-	-	-	-	880	880	-	806	806	-
Stage 2	-	-	-	-	-	-	827	826	-	874	926	-
Critical Hdwy	4.12	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.218	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	897	-	-	748	-	-	~ 73	92	350	76	89	454
Stage 1	-	-	-	-	-	-	344	368	-	378	397	-
Stage 2	-	-	-	-	-	-	369	390	-	347	350	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	897	-	-	748	-	-	~ 62	79	350	~ 0	~ 76	454
Mov Cap-2 Maneuver	-	-	-	-	-	-	~ 62	79	-	~ 0	~ 76	-
Stage 1	-	-	-	-	-	-	344	367	-	326	343	-
Stage 2	-	-	-	-	-	-	243	336	-	223	349	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.01	0.84	$ 959.68	$ 12330.88
HCM LOS			F	F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	86	2	-	-	147	-	-	4
HCM Lane V/C Ratio	2.896	0.001	-	-	0.084	-	-	24.239
HCM Control Delay (s/veh)	$ 959.7	9	0	-	10.3	0	-	$ 12330.9
HCM Lane LOS	F	A	A	-	B	A	-	F
HCM 95th %tile Q(veh)	24.2	0	-	-	0.3	-	-	13.5

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Intersection Delay, s/veh	604.9
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	17	497	180	35	505	223	260	628	64	226	310	15
Future Vol, veh/h	17	497	180	35	505	223	260	628	64	226	310	15
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	2	2	2	0	0	0	2	2	2	3	3	3
Mvmt Flow	18	534	194	38	543	240	280	675	69	243	333	16
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	505.9	582.4	837	359.9
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	27%	2%	5%	41%
Vol Thru, %	66%	72%	66%	56%
Vol Right, %	7%	26%	29%	3%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	952	694	763	551
LT Vol	260	17	35	226
Through Vol	628	497	505	310
RT Vol	64	180	223	15
Lane Flow Rate	1024	746	820	592
Geometry Grp	1	1	1	1
Degree of Util (X)	2.743	1.965	2.149	1.599
Departure Headway (Hd)	19.749	24.118	22.793	27.439
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	194	164	172	142
Service Time	17.749	22.118	20.793	25.439
HCM Lane V/C Ratio	5.278	4.549	4.767	4.169
HCM Control Delay, s/veh	837	505.9	582.4	359.9
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	44	22.8	27.3	15.1

Intersection	
Int Delay, s/veh	2292.8

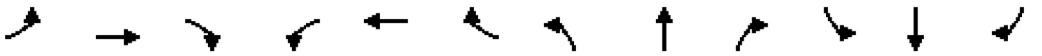
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	129	179	149	23	177	5	161	1100	18	4	616	111
Future Vol, veh/h	129	179	149	23	177	5	161	1100	18	4	616	111
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	3	3	3
Mvmt Flow	136	188	157	24	186	5	169	1158	19	4	648	117

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	2305	2231	707	2257	2280	1167	765	0	0	1177	0	0
Stage 1	715	715	-	1506	1506	-	-	-	-	-	-	-
Stage 2	1590	1516	-	751	774	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.227	-	-
Pot Cap-1 Maneuver	~ 27	~ 43	435	29	~ 40	236	848	-	-	590	-	-
Stage 1	422	434	-	151	~ 184	-	-	-	-	-	-	-
Stage 2	~ 135	~ 182	-	403	408	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 11	~ 18	435	~ 8	~ 16	236	848	-	-	590	-	-
Mov Cap-2 Maneuver	~ 11	~ 18	-	~ 8	~ 16	-	-	-	-	-	-	-
Stage 1	416	429	-	63	~ 77	-	-	-	-	-	-	-
Stage 2	-	~ 76	-	143	403	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	$ 10462.47	$ 6553.01	1.3	0.06
HCM LOS	F	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	226	-	-	21	15	10	-	-
HCM Lane V/C Ratio	0.2	-	-	23.449	14.462	0.007	-	-
HCM Control Delay (s/veh)	10.3	0	$ 10462.5	$ 6553	11.1	0	-	
HCM Lane LOS	B	A	-	F	F	B	A	-
HCM 95th %tile Q(veh)	0.7	-	-	60.5	28	0	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	322	511	441	48	383	329	473	1097	90	199	692	230
Future Volume (veh/h)	322	511	441	48	383	329	473	1097	90	199	692	230
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	339	538	464	51	403	346	498	1155	95	209	728	242
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	2	2	2	3	3	3
Cap, veh/h	300	1215	542	131	462	392	295	562	476	235	497	421
Arrive On Green	0.17	0.34	0.34	0.07	0.24	0.24	0.17	0.30	0.30	0.13	0.27	0.27
Sat Flow, veh/h	1810	3610	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Grp Volume(v), veh/h	339	538	464	51	403	346	498	1155	95	209	728	242
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Q Serve(g_s), s	21.0	14.7	34.1	3.4	25.8	26.3	21.0	38.1	5.7	14.8	34.0	16.9
Cycle Q Clear(g_c), s	21.0	14.7	34.1	3.4	25.8	26.3	21.0	38.1	5.7	14.8	34.0	16.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	300	1215	542	131	462	392	295	562	476	235	497	421
V/C Ratio(X)	1.13	0.44	0.86	0.39	0.87	0.88	1.69	2.05	0.20	0.89	1.46	0.57
Avail Cap(c_a), veh/h	300	1215	542	300	509	432	295	562	476	293	497	421
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.9	32.8	39.2	56.2	46.1	46.3	52.9	44.4	33.0	54.1	46.4	40.2
Incr Delay (d2), s/veh	92.4	0.4	13.3	0.7	15.3	19.0	324.3	480.6	0.2	20.7	219.6	2.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	16.9	6.3	14.8	1.5	13.7	12.2	35.7	92.0	2.1	7.9	45.9	6.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	145.3	33.2	52.5	56.9	61.4	65.3	377.3	525.0	33.2	74.8	266.1	42.5
LnGrp LOS	F	C	D	E	E	E	F	F	C	E	F	D
Approach Vol, veh/h		1341			800			1748			1179	
Approach Delay, s/veh		68.2			62.8			456.2			186.3	
Approach LOS		E			E			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	25.0	40.0	25.0	36.9	20.9	44.1	13.2	48.7
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	23.0	36.0	23.0	28.3	16.8	40.1	5.4	36.1
Green Ext Time (p_c), s	0.0	0.0	0.0	2.6	0.1	0.0	0.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	228.6
HCM 7th LOS	F

Intersection	
Int Delay, s/veh	1.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	36	6	175	61	9	197
Future Vol, veh/h	36	6	175	61	9	197
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	39	7	190	66	10	214

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	457	223	0	0	257	0
Stage 1	223	-	-	-	-	-
Stage 2	234	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	562	816	-	-	1308	-
Stage 1	814	-	-	-	-	-
Stage 2	805	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	557	816	-	-	1308	-
Mov Cap-2 Maneuver	557	-	-	-	-	-
Stage 1	814	-	-	-	-	-
Stage 2	798	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	11.7	0	0.34
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	583	79	-
HCM Lane V/C Ratio	-	-	0.078	0.007	-
HCM Control Delay (s/veh)	-	-	11.7	7.8	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.3	0	-

Intersection	
Int Delay, s/veh	0.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	389	2	0	427	0	14
Future Vol, veh/h	389	2	0	427	0	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	423	2	0	464	0	15

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	888	424
Stage 1	-	-	-	-	424	-
Stage 2	-	-	-	-	464	-
Critical Hdwy	-	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	0	-	314	630
Stage 1	-	-	0	-	660	-
Stage 2	-	-	0	-	633	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	314	630
Mov Cap-2 Maneuver	-	-	-	-	314	-
Stage 1	-	-	-	-	660	-
Stage 2	-	-	-	-	633	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.85
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	630	-	-	-
HCM Lane V/C Ratio	0.024	-	-	-
HCM Control Delay (s/veh)	10.9	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-

Intersection	
Int Delay, s/veh	0.9

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	397	6	71	427	0	19
Future Vol, veh/h	397	6	71	427	0	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	432	7	77	464	0	21

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	438	0	1053	435
Stage 1	-	-	-	-	435	-
Stage 2	-	-	-	-	618	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1122	-	250	621
Stage 1	-	-	-	-	653	-
Stage 2	-	-	-	-	537	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1122	-	227	621
Mov Cap-2 Maneuver	-	-	-	-	227	-
Stage 1	-	-	-	-	653	-
Stage 2	-	-	-	-	488	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	1.2	10.99
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	621	-	-	1122	-
HCM Lane V/C Ratio	0.033	-	-	0.069	-
HCM Control Delay (s/veh)	11	-	-	8.4	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.2	-

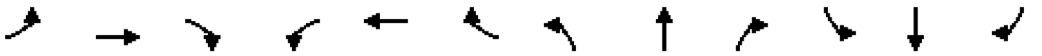
Intersection	
Int Delay, s/veh	0.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	408	8	0	498	0	19
Future Vol, veh/h	408	8	0	498	0	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	443	9	0	541	0	21

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	989	448
Stage 1	-	-	-	-	448	-
Stage 2	-	-	-	-	541	-
Critical Hdwy	-	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	0	-	274	611
Stage 1	-	-	0	-	644	-
Stage 2	-	-	0	-	583	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	274	611
Mov Cap-2 Maneuver	-	-	-	-	274	-
Stage 1	-	-	-	-	644	-
Stage 2	-	-	-	-	583	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	11.1
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	611	-	-	-
HCM Lane V/C Ratio	0.034	-	-	-
HCM Control Delay (s/veh)	11.1	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	80	129	182	32	135	135	103	693	31	66	611	54
Future Volume (veh/h)	80	129	182	32	135	135	103	693	31	66	611	54
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	82	133	188	33	139	139	106	714	32	68	630	56
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	3	3	3
Cap, veh/h	157	491	416	95	178	178	173	1511	469	145	1423	442
Arrive On Green	0.09	0.26	0.26	0.05	0.21	0.21	0.10	0.30	0.30	0.08	0.28	0.28
Sat Flow, veh/h	1767	1856	1572	1781	858	858	1781	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	82	133	188	33	0	278	106	714	32	68	630	56
Grp Sat Flow(s),veh/h/ln	1767	1856	1572	1781	0	1716	1781	1702	1585	1767	1689	1572
Q Serve(g_s), s	3.2	4.1	7.3	1.3	0.0	11.2	4.2	8.3	1.1	2.7	7.4	1.9
Cycle Q Clear(g_c), s	3.2	4.1	7.3	1.3	0.0	11.2	4.2	8.3	1.1	2.7	7.4	1.9
Prop In Lane	1.00		1.00	1.00		0.50	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	157	491	416	95	0	356	173	1511	469	145	1423	442
V/C Ratio(X)	0.52	0.27	0.45	0.35	0.00	0.78	0.61	0.47	0.07	0.47	0.44	0.13
Avail Cap(c_a), veh/h	335	599	508	377	0	554	360	2757	856	357	2735	849
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.7	21.2	22.3	33.2	0.0	27.3	31.6	21.0	18.4	31.9	21.5	19.5
Incr Delay (d2), s/veh	1.0	0.3	0.8	2.1	0.0	8.1	1.3	0.2	0.1	0.9	0.7	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	1.7	2.5	0.6	0.0	5.0	1.8	3.2	0.4	1.1	2.9	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	32.7	21.5	23.1	35.4	0.0	35.4	32.9	21.2	18.5	32.8	22.2	19.9
LnGrp LOS	C	C	C	D		D	C	C	B	C	C	B
Approach Vol, veh/h		403			311			852			754	
Approach Delay, s/veh		24.5			35.4			22.6			23.0	
Approach LOS		C			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.4	26.2	12.7	21.6	11.3	27.2	8.5	25.8
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	6.2	9.4	5.2	13.2	4.7	10.3	3.3	9.3
Green Ext Time (p_c), s	0.1	11.0	0.0	1.9	0.0	5.6	0.0	1.1

Intersection Summary	
HCM 7th Control Delay, s/veh	24.8
HCM 7th LOS	C

Movement	EBL	EBR	NBL	NBT	SBU	SBT	SBR
Lane Configurations							
Traffic Volume (veh/h)	165	167	88	685	0	758	99
Future Volume (veh/h)	165	167	88	685	0	758	99
Initial Q (Qb), veh	0	0	0	0		0	0
Lane Width Adj.	1.00	1.00	1.00	1.00		1.00	1.00
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00				1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Work Zone On Approach	No			No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870		1856	1856
Adj Flow Rate, veh/h	170	172	91	706		781	102
Peak Hour Factor	0.97	0.97	0.97	0.97		0.97	0.97
Percent Heavy Veh, %	2	2	2	2		3	3
Cap, veh/h	329	293	386	3098		1903	591
Arrive On Green	0.18	0.18	0.11	0.61		0.38	0.38
Sat Flow, veh/h	1781	1585	3456	5274		5233	1572
Grp Volume(v), veh/h	170	172	91	706		781	102
Grp Sat Flow(s),veh/h/ln	1781	1585	1728	1702		1689	1572
Q Serve(g_s), s	4.5	5.2	1.3	3.3		6.0	2.3
Cycle Q Clear(g_c), s	4.5	5.2	1.3	3.3		6.0	2.3
Prop In Lane	1.00	1.00	1.00				1.00
Lane Grp Cap(c), veh/h	329	293	386	3098		1903	591
V/C Ratio(X)	0.52	0.59	0.24	0.23		0.41	0.17
Avail Cap(c_a), veh/h	834	742	898	3098		2814	874
HCM Platoon Ratio	1.00	1.00	1.00	1.00		1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00		1.00	1.00
Uniform Delay (d), s/veh	19.4	19.7	21.4	4.7		12.2	11.0
Incr Delay (d2), s/veh	3.4	5.1	0.1	0.1		0.5	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	2.1	0.5	0.8		2.0	0.8
Unsig. Movement Delay, s/veh							
LnGrp Delay(d), s/veh	22.8	24.8	21.5	4.9		12.6	11.5
LnGrp LOS	C	C	C	A		B	B
Approach Vol, veh/h	342			797		883	
Approach Delay, s/veh	23.8			6.8		12.5	
Approach LOS	C			A		B	

Timer - Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	12.2	25.5				37.7		15.0
Change Period (Y+Rc), s	6.3	5.7				5.7		5.3
Max Green Setting (Gmax), s	13.7	29.3				29.3		24.7
Max Q Clear Time (g_c+I1), s	3.3	8.0				5.3		7.2
Green Ext Time (p_c), s	0.1	11.8				10.6		2.6

Intersection Summary	
HCM 7th Control Delay, s/veh	12.1
HCM 7th LOS	B

Notes

User approved ignoring U-Turning movement.

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	224	0	0	344	1	0	0	0	1	0	0
Future Vol, veh/h	0	224	0	0	344	1	0	0	0	1	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	81	81	81	81	81	81	81	81	81	81	81	81
Heavy Vehicles, %	3	3	3	1	1	1	0	0	0	0	0	0
Mvmt Flow	0	277	0	0	425	1	0	0	0	1	0	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	426	0	-	-	-	0	701	702	277	702	702	425
Stage 1	-	-	-	-	-	-	277	277	-	425	425	-
Stage 2	-	-	-	-	-	-	425	426	-	277	277	-
Critical Hdwy	4.13	-	-	-	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.227	-	-	-	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1128	-	0	0	-	-	356	365	767	356	365	633
Stage 1	-	-	0	0	-	-	734	685	-	611	590	-
Stage 2	-	-	0	0	-	-	611	589	-	734	685	-
Platoon blocked, %		-			-	-						
Mov Cap-1 Maneuver	1128	-	-	-	-	-	356	365	767	356	365	633
Mov Cap-2 Maneuver	-	-	-	-	-	-	356	365	-	356	365	-
Stage 1	-	-	-	-	-	-	734	685	-	611	590	-
Stage 2	-	-	-	-	-	-	611	589	-	734	685	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0	0	0	15.16
HCM LOS			A	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	1128	-	-	-	356
HCM Lane V/C Ratio	-	-	-	-	-	0.003
HCM Control Delay (s/veh)	0	0	-	-	-	15.2
HCM Lane LOS	A	A	-	-	-	C
HCM 95th %tile Q(veh)	-	0	-	-	-	0

Intersection	
Intersection Delay, s/veh	59.5
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	4	155	67	25	220	253	65	240	19	175	207	3
Future Vol, veh/h	4	155	67	25	220	253	65	240	19	175	207	3
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.92	0.97	0.97	0.97	0.97
Heavy Vehicles, %	3	3	3	1	1	1	3	3	3	3	3	3
Mvmt Flow	4	160	69	26	227	261	67	261	20	180	213	3
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	23.1	96.7	38.7	50.8
HCM LOS	C	F	E	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	20%	2%	5%	45%
Vol Thru, %	74%	69%	44%	54%
Vol Right, %	6%	30%	51%	1%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	324	226	498	385
LT Vol	65	4	25	175
Through Vol	240	155	220	207
RT Vol	19	67	253	3
Lane Flow Rate	347	233	513	397
Geometry Grp	1	1	1	1
Degree of Util (X)	0.802	0.562	1.093	0.892
Departure Headway (Hd)	8.689	9.064	7.664	8.581
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	420	401	472	425
Service Time	6.689	7.064	5.707	6.581
HCM Lane V/C Ratio	0.826	0.581	1.087	0.934
HCM Control Delay, s/veh	38.7	23.1	96.7	50.8
HCM Lane LOS	E	C	F	F
HCM 95th-tile Q	7.2	3.3	16.8	9.3

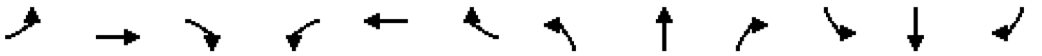
Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	8	0	3	4	0	2	3	309	11	2	337	6
Future Vol, veh/h	8	0	3	4	0	2	3	309	11	2	337	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2	3	3	3	3	3	3
Mvmt Flow	9	0	3	4	0	2	3	340	12	2	370	7

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	724	736	374	727	734	346	377	0	0	352	0	0
Stage 1	378	378	-	352	352	-	-	-	-	-	-	-
Stage 2	346	358	-	375	381	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	341	346	673	339	348	697	1176	-	-	1202	-	-
Stage 1	644	615	-	665	631	-	-	-	-	-	-	-
Stage 2	670	628	-	646	613	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	338	344	673	336	346	697	1176	-	-	1202	-	-
Mov Cap-2 Maneuver	338	344	-	336	346	-	-	-	-	-	-	-
Stage 1	642	614	-	662	629	-	-	-	-	-	-	-
Stage 2	665	625	-	642	612	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	14.5	14.01	0.07	0.05
HCM LOS	B	B		

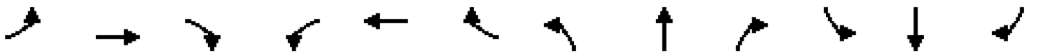
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	17	-	-	391	406	10	-	-
HCM Lane V/C Ratio	0.003	-	-	0.031	0.016	0.002	-	-
HCM Control Delay (s/veh)	8.1	0	-	14.5	14	8	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	34	318	128	14	265	137	120	152	18	91	193	34
Future Volume (veh/h)	34	318	128	14	265	137	120	152	18	91	193	34
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	37	346	139	15	288	149	130	165	20	99	210	37
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	150	978	436	72	432	366	293	348	295	267	320	272
Arrive On Green	0.09	0.28	0.28	0.04	0.23	0.23	0.17	0.19	0.19	0.15	0.17	0.17
Sat Flow, veh/h	1767	3526	1572	1767	1856	1572	1767	1856	1572	1767	1856	1572
Grp Volume(v), veh/h	37	346	139	15	288	149	130	165	20	99	210	37
Grp Sat Flow(s),veh/h/ln	1767	1763	1572	1767	1856	1572	1767	1856	1572	1767	1856	1572
Q Serve(g_s), s	1.1	4.6	4.1	0.5	8.2	4.7	3.9	4.6	0.6	2.9	6.1	1.2
Cycle Q Clear(g_c), s	1.1	4.6	4.1	0.5	8.2	4.7	3.9	4.6	0.6	2.9	6.1	1.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	150	978	436	72	432	366	293	348	295	267	320	272
V/C Ratio(X)	0.25	0.35	0.32	0.21	0.67	0.41	0.44	0.47	0.07	0.37	0.66	0.14
Avail Cap(c_a), veh/h	637	2058	918	637	1083	918	637	1083	918	637	1083	918
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	24.9	16.9	16.7	27.0	20.3	18.9	21.9	21.1	19.5	22.2	22.5	20.4
Incr Delay (d2), s/veh	0.3	0.3	0.6	0.5	2.9	1.2	0.4	1.1	0.1	0.3	3.2	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	1.6	1.3	0.2	3.3	1.5	1.4	1.8	0.2	1.2	2.8	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	25.2	17.2	17.3	27.6	23.2	20.1	22.3	22.2	19.6	22.6	25.7	20.7
LnGrp LOS	C	B	B	C	C	C	C	C	B	C	C	C
Approach Vol, veh/h		522			452			315			346	
Approach Delay, s/veh		17.8			22.3			22.0			24.3	
Approach LOS		B			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.7	16.1	9.0	19.6	12.8	16.9	6.4	22.1
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	5.9	8.1	3.1	10.2	4.9	6.6	2.5	6.6
Green Ext Time (p_c), s	0.1	1.9	0.0	3.4	0.1	0.9	0.0	3.9

Intersection Summary	
HCM 7th Control Delay, s/veh	21.2
HCM 7th LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	104	121	55	138	119	119	731	54	95	560	40
Future Volume (veh/h)	21	104	121	55	138	119	119	731	54	95	560	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	24	121	141	64	160	138	138	850	63	110	651	47
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %	2	2	2	0	0	0	1	1	1	0	0	0
Cap, veh/h	74	369	313	141	200	173	178	1760	546	171	1750	543
Arrive On Green	0.04	0.20	0.20	0.08	0.21	0.21	0.10	0.34	0.34	0.09	0.34	0.34
Sat Flow, veh/h	1781	1870	1585	1810	942	812	1795	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	24	121	141	64	0	298	138	850	63	110	651	47
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1810	0	1754	1795	1716	1598	1810	1729	1610
Q Serve(g_s), s	1.0	4.3	6.0	2.6	0.0	12.3	5.7	10.0	2.1	4.5	7.3	1.5
Cycle Q Clear(g_c), s	1.0	4.3	6.0	2.6	0.0	12.3	5.7	10.0	2.1	4.5	7.3	1.5
Prop In Lane	1.00		1.00	1.00		0.46	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	74	369	313	141	0	373	178	1760	546	171	1750	543
V/C Ratio(X)	0.32	0.33	0.45	0.46	0.00	0.80	0.78	0.48	0.12	0.64	0.37	0.09
Avail Cap(c_a), veh/h	321	574	486	364	0	538	345	2641	820	347	2661	826
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	35.6	26.4	27.1	33.8	0.0	28.6	33.7	19.9	17.3	33.4	19.2	17.3
Incr Delay (d2), s/veh	0.9	0.6	1.2	0.9	0.0	9.4	2.8	0.7	0.3	1.5	0.4	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	1.8	2.2	1.1	0.0	5.8	2.6	3.9	0.7	2.0	2.8	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	36.6	27.0	28.3	34.6	0.0	38.0	36.4	20.5	17.6	35.0	19.7	17.5
LnGrp LOS	D	C	C	C		D	D	C	B	C	B	B
Approach Vol, veh/h		286			362			1051			808	
Approach Delay, s/veh		28.4			37.4			22.4			21.6	
Approach LOS		C			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.9	31.5	9.4	22.8	12.5	31.9	10.6	21.6
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	7.7	9.3	3.0	14.3	6.5	12.0	4.6	8.0
Green Ext Time (p_c), s	0.1	11.3	0.0	1.9	0.1	14.2	0.0	1.1

Intersection Summary	
HCM 7th Control Delay, s/veh	25.0
HCM 7th LOS	C

Movement	EBL	EBR	NBL	NBT	SBU	SBT	SBR
Lane Configurations							
Traffic Volume (veh/h)	114	193	199	855	0	671	89
Future Volume (veh/h)	114	193	199	855	0	671	89
Initial Q (Qb), veh	0	0	0	0		0	0
Lane Width Adj.	1.00	1.00	1.00	1.00		1.00	1.00
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00				1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Work Zone On Approach	No			No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870		1856	1856
Adj Flow Rate, veh/h	120	203	209	900		706	94
Peak Hour Factor	0.95	0.95	0.95	0.95		0.95	0.95
Percent Heavy Veh, %	2	2	2	2		3	3
Cap, veh/h	348	310	484	3044		1727	536
Arrive On Green	0.20	0.20	0.14	0.60		0.34	0.34
Sat Flow, veh/h	1781	1585	3456	5274		5233	1572
Grp Volume(v), veh/h	120	203	209	900		706	94
Grp Sat Flow(s),veh/h/ln	1781	1585	1728	1702		1689	1572
Q Serve(g_s), s	3.2	6.5	3.0	4.7		5.8	2.3
Cycle Q Clear(g_c), s	3.2	6.5	3.0	4.7		5.8	2.3
Prop In Lane	1.00	1.00	1.00				1.00
Lane Grp Cap(c), veh/h	348	310	484	3044		1727	536
V/C Ratio(X)	0.34	0.65	0.43	0.30		0.41	0.18
Avail Cap(c_a), veh/h	791	704	865	3044		2711	842
HCM Platoon Ratio	1.00	1.00	1.00	1.00		1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00		1.00	1.00
Uniform Delay (d), s/veh	19.0	20.3	21.5	5.4		13.8	12.6
Incr Delay (d2), s/veh	1.6	6.3	0.2	0.2		0.5	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	2.6	1.1	1.2		2.0	0.8
Unsig. Movement Delay, s/veh							
LnGrp Delay(d), s/veh	20.6	26.6	21.8	5.6		14.3	13.2
LnGrp LOS	C	C	C	A		B	B
Approach Vol, veh/h	323			1109		800	
Approach Delay, s/veh	24.4			8.7		14.2	
Approach LOS	C			A		B	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	14.0	24.4			38.3	16.4
Change Period (Y+Rc), s	6.3	5.7			5.7	5.7
Max Green Setting (Gmax), s	13.7	29.3			29.3	24.3
Max Q Clear Time (g_c+I1), s	5.0	7.8			6.7	8.5
Green Ext Time (p_c), s	0.2	10.8			12.9	2.3

Intersection Summary	
HCM 7th Control Delay, s/veh	12.9
HCM 7th LOS	B

Notes

User approved ignoring U-Turning movement.

Intersection	
Int Delay, s/veh	0

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	241	0	0	293	0	0	0	0	0	0	1
Future Vol, veh/h	1	241	0	0	293	0	0	0	0	0	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	256	0	0	312	0	0	0	0	0	0	1

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	312	0	-	-	-	0	570	570	256	570	570	312
Stage 1	-	-	-	-	-	-	259	259	-	312	312	-
Stage 2	-	-	-	-	-	-	312	312	-	259	259	-
Critical Hdwy	4.12	-	-	-	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.218	-	-	-	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1249	-	0	0	-	-	435	434	787	435	434	733
Stage 1	-	-	0	0	-	-	751	698	-	703	661	-
Stage 2	-	-	0	0	-	-	703	661	-	751	698	-
Platoon blocked, %		-			-	-						
Mov Cap-1 Maneuver	1249	-	-	-	-	-	434	434	787	435	434	733
Mov Cap-2 Maneuver	-	-	-	-	-	-	434	434	-	435	434	-
Stage 1	-	-	-	-	-	-	750	697	-	703	661	-
Stage 2	-	-	-	-	-	-	702	661	-	750	697	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.03	0	0	9.92
HCM LOS			A	A

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	7	-	-	-	733
HCM Lane V/C Ratio	-	0.001	-	-	-	0.001
HCM Control Delay (s/veh)	0	7.9	0	-	-	9.9
HCM Lane LOS	A	A	A	-	-	A
HCM 95th %tile Q(veh)	-	0	-	-	-	0

Intersection	
Intersection Delay, s/veh	56.1
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	2	192	43	15	225	179	61	259	30	187	168	2
Future Vol, veh/h	2	192	43	15	225	179	61	259	30	187	168	2
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	2	2	2	0	0	0	2	2	2	3	3	3
Mvmt Flow	2	206	46	16	242	192	66	278	32	201	181	2
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	27.2	77	50.8	56
HCM LOS	D	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	17%	1%	4%	52%
Vol Thru, %	74%	81%	54%	47%
Vol Right, %	9%	18%	43%	1%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	350	237	419	357
LT Vol	61	2	15	187
Through Vol	259	192	225	168
RT Vol	30	43	179	2
Lane Flow Rate	376	255	451	384
Geometry Grp	1	1	1	1
Degree of Util (X)	0.889	0.638	1.02	0.916
Departure Headway (Hd)	8.714	9.246	8.148	8.796
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	418	392	451	415
Service Time	6.714	7.246	6.148	6.796
HCM Lane V/C Ratio	0.9	0.651	1	0.925
HCM Control Delay, s/veh	50.8	27.2	77	56
HCM Lane LOS	F	D	F	F
HCM 95th-tile Q	9.2	4.3	13.6	9.9

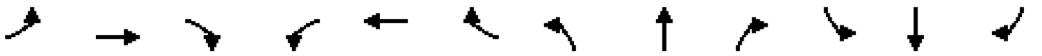
Intersection	
Int Delay, s/veh	0.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	0	2	9	0	2	0	338	2	0	250	1
Future Vol, veh/h	0	0	2	9	0	2	0	338	2	0	250	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	3	3	3
Mvmt Flow	0	0	2	9	0	2	0	356	2	0	263	1

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	619	622	264	620	621	357	264	0	0	358	0	0
Stage 1	264	264	-	357	357	-	-	-	-	-	-	-
Stage 2	356	358	-	263	264	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.227	-	-
Pot Cap-1 Maneuver	401	403	775	400	403	687	1300	-	-	1195	-	-
Stage 1	741	690	-	661	628	-	-	-	-	-	-	-
Stage 2	662	628	-	742	690	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	399	403	775	399	403	687	1300	-	-	1195	-	-
Mov Cap-2 Maneuver	399	403	-	399	403	-	-	-	-	-	-	-
Stage 1	741	690	-	661	628	-	-	-	-	-	-	-
Stage 2	660	628	-	740	690	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	9.66	13.56	0	0
HCM LOS	A	B		

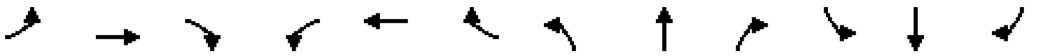
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1300	-	-	775	432	1195	-	-
HCM Lane V/C Ratio	-	-	-	0.003	0.027	-	-	-
HCM Control Delay (s/veh)	0	-	-	9.7	13.6	0	-	-
HCM Lane LOS	A	-	-	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.1	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	44	295	111	6	240	88	129	205	24	48	169	36
Future Volume (veh/h)	44	295	111	6	240	88	129	205	24	48	169	36
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	46	311	117	6	253	93	136	216	25	51	178	38
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	2	2	2	3	3	3
Cap, veh/h	183	1047	467	32	393	333	311	415	352	191	288	244
Arrive On Green	0.10	0.29	0.29	0.02	0.21	0.21	0.17	0.22	0.22	0.11	0.16	0.16
Sat Flow, veh/h	1810	3610	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Grp Volume(v), veh/h	46	311	117	6	253	93	136	216	25	51	178	38
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Q Serve(g_s), s	1.3	3.7	3.1	0.2	6.7	2.7	3.8	5.6	0.7	1.5	4.9	1.2
Cycle Q Clear(g_c), s	1.3	3.7	3.1	0.2	6.7	2.7	3.8	5.6	0.7	1.5	4.9	1.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	183	1047	467	32	393	333	311	415	352	191	288	244
V/C Ratio(X)	0.25	0.30	0.25	0.19	0.64	0.28	0.44	0.52	0.07	0.27	0.62	0.16
Avail Cap(c_a), veh/h	689	2225	992	689	1171	992	678	1153	977	673	1143	969
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.9	15.2	15.0	26.7	20.0	18.4	20.3	18.9	17.0	22.6	21.8	20.2
Incr Delay (d2), s/veh	0.3	0.2	0.4	1.1	2.9	0.7	0.4	1.1	0.1	0.3	3.0	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	1.2	0.9	0.1	2.8	0.9	1.4	2.2	0.2	0.6	2.2	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	23.2	15.5	15.4	27.8	22.9	19.2	20.7	20.0	17.1	22.9	24.8	20.6
LnGrp LOS	C	B	B	C	C	B	C	B	B	C	C	C
Approach Vol, veh/h		474			352			377			267	
Approach Delay, s/veh		16.2			22.0			20.1			23.8	
Approach LOS		B			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.6	14.6	9.6	17.4	10.0	18.2	5.0	22.0
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	5.8	6.9	3.3	8.7	3.5	7.6	2.2	5.7
Green Ext Time (p_c), s	0.1	1.6	0.0	2.7	0.0	1.3	0.0	3.4

Intersection Summary	
HCM 7th Control Delay, s/veh	20.0
HCM 7th LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	80	130	182	90	139	142	103	693	51	68	611	54
Future Volume (veh/h)	80	130	182	90	139	142	103	693	51	68	611	54
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	82	134	188	93	143	146	106	714	53	70	630	56
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	3	3	3
Cap, veh/h	156	429	363	165	181	185	172	1496	464	146	1415	439
Arrive On Green	0.09	0.23	0.23	0.09	0.21	0.21	0.10	0.29	0.29	0.08	0.28	0.28
Sat Flow, veh/h	1767	1856	1572	1781	848	866	1781	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	82	134	188	93	0	289	106	714	53	70	630	56
Grp Sat Flow(s),veh/h/ln	1767	1856	1572	1781	0	1714	1781	1702	1585	1767	1689	1572
Q Serve(g_s), s	3.3	4.4	7.7	3.7	0.0	11.7	4.2	8.4	1.8	2.8	7.5	2.0
Cycle Q Clear(g_c), s	3.3	4.4	7.7	3.7	0.0	11.7	4.2	8.4	1.8	2.8	7.5	2.0
Prop In Lane	1.00		1.00	1.00		0.51	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	156	429	363	165	0	366	172	1496	464	146	1415	439
V/C Ratio(X)	0.52	0.31	0.52	0.56	0.00	0.79	0.62	0.48	0.11	0.48	0.45	0.13
Avail Cap(c_a), veh/h	332	593	503	373	0	548	356	2731	848	354	2709	841
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	32.0	23.4	24.7	31.9	0.0	27.3	31.9	21.4	19.0	32.2	21.8	19.8
Incr Delay (d2), s/veh	1.0	0.4	1.1	3.0	0.0	8.7	1.3	0.2	0.1	0.9	0.7	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	1.8	0.1	1.6	0.0	5.3	1.8	3.2	0.6	1.2	2.9	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	33.0	23.8	25.8	34.9	0.0	36.0	33.3	21.6	19.1	33.1	22.5	20.2
LnGrp LOS	C	C	C	C		D	C	C	B	C	C	C
Approach Vol, veh/h		404			382			873			756	
Approach Delay, s/veh		26.6			35.8			22.9			23.3	
Approach LOS		C			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.4	26.2	12.7	22.2	11.4	27.2	11.4	23.5
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	6.2	9.5	5.3	13.7	4.8	10.4	5.7	9.7
Green Ext Time (p_c), s	0.1	11.0	0.0	2.0	0.0	5.7	0.1	1.1

Intersection Summary	
HCM 7th Control Delay, s/veh	25.7
HCM 7th LOS	C

Movement	EBL	EBR	NBL	NBT	SBU	SBT	SBR
Lane Configurations							
Traffic Volume (veh/h)	172	167	88	698	0	797	118
Future Volume (veh/h)	172	167	88	698	0	797	118
Initial Q (Qb), veh	0	0	0	0		0	0
Lane Width Adj.	1.00	1.00	1.00	1.00		1.00	1.00
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00				1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Work Zone On Approach	No			No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870		1856	1856
Adj Flow Rate, veh/h	177	172	91	720		822	122
Peak Hour Factor	0.97	0.97	0.97	0.97		0.97	0.97
Percent Heavy Veh, %	2	2	2	2		3	3
Cap, veh/h	328	292	382	3125		1949	605
Arrive On Green	0.18	0.18	0.11	0.61		0.38	0.38
Sat Flow, veh/h	1781	1585	3456	5274		5233	1572
Grp Volume(v), veh/h	177	172	91	720		822	122
Grp Sat Flow(s),veh/h/ln	1781	1585	1728	1702		1689	1572
Q Serve(g_s), s	4.9	5.4	1.3	3.4		6.4	2.8
Cycle Q Clear(g_c), s	4.9	5.4	1.3	3.4		6.4	2.8
Prop In Lane	1.00	1.00	1.00				1.00
Lane Grp Cap(c), veh/h	328	292	382	3125		1949	605
V/C Ratio(X)	0.54	0.59	0.24	0.23		0.42	0.20
Avail Cap(c_a), veh/h	816	726	878	3125		2753	855
HCM Platoon Ratio	1.00	1.00	1.00	1.00		1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00		1.00	1.00
Uniform Delay (d), s/veh	19.9	20.1	21.9	4.7		12.2	11.1
Incr Delay (d2), s/veh	3.8	5.1	0.1	0.1		0.5	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	2.1	0.5	0.9		2.2	0.9
Unsig. Movement Delay, s/veh							
LnGrp Delay(d), s/veh	23.7	25.3	22.0	4.9		12.7	11.6
LnGrp LOS	C	C	C	A		B	B
Approach Vol, veh/h	349			811		944	
Approach Delay, s/veh	24.5			6.8		12.5	
Approach LOS	C			A		B	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	12.3	26.4			38.7	15.2
Change Period (Y+Rc), s	6.3	5.7			5.7	5.3
Max Green Setting (Gmax), s	13.7	29.3			29.3	24.7
Max Q Clear Time (g_c+I1), s	13.3	8.4			5.4	7.4
Green Ext Time (p_c), s	0.1	12.3			10.8	2.6

Intersection Summary	
HCM 7th Control Delay, s/veh	12.3
HCM 7th LOS	B

Notes

User approved ignoring U-Turning movement.

Intersection	
Int Delay, s/veh	1.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	246	2	2	365	1	48	0	0	1	0	0
Future Vol, veh/h	0	246	2	2	365	1	48	0	0	1	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	81	81	81	81	81	81	81	81	81	81	81	81
Heavy Vehicles, %	3	3	3	1	1	1	2	2	2	0	2	0
Mvmt Flow	0	304	2	2	451	1	59	0	0	1	0	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	452	0	0	306	0	0	760	762	305	760	762	451
Stage 1	-	-	-	-	-	-	305	305	-	456	456	-
Stage 2	-	-	-	-	-	-	456	457	-	304	306	-
Critical Hdwy	4.13	-	-	4.11	-	-	7.12	6.52	6.22	7.1	6.52	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.1	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.1	5.52	-
Follow-up Hdwy	2.227	-	-	2.209	-	-	3.518	4.018	3.318	3.5	4.018	3.3
Pot Cap-1 Maneuver	1103	-	-	1260	-	-	322	335	735	325	335	612
Stage 1	-	-	-	-	-	-	705	662	-	588	568	-
Stage 2	-	-	-	-	-	-	584	568	-	710	661	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1103	-	-	1260	-	-	321	334	735	324	334	612
Mov Cap-2 Maneuver	-	-	-	-	-	-	321	334	-	324	334	-
Stage 1	-	-	-	-	-	-	705	662	-	586	567	-
Stage 2	-	-	-	-	-	-	583	566	-	710	661	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0	0.04	18.71	16.15
HCM LOS			C	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	321	1103	-	-	1260	-	-	324
HCM Lane V/C Ratio	0.184	-	-	-	0.002	-	-	0.004
HCM Control Delay (s/veh)	18.7	0	-	-	7.9	-	-	16.1
HCM Lane LOS	C	A	-	-	A	-	-	C
HCM 95th %tile Q(veh)	0.7	0	-	-	0	-	-	0

Intersection	
Intersection Delay, s/veh	89.2
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	8	162	125	25	222	253	85	240	19	175	207	4
Future Vol, veh/h	8	162	125	25	222	253	85	240	19	175	207	4
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.92	0.97	0.97	0.97	0.97
Heavy Vehicles, %	3	3	3	1	1	1	3	3	3	3	3	3
Mvmt Flow	8	167	129	26	229	261	88	261	20	180	213	4
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	39.3	149.9	60.8	75
HCM LOS	E	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	25%	3%	5%	45%
Vol Thru, %	70%	55%	44%	54%
Vol Right, %	6%	42%	51%	1%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	344	295	500	386
LT Vol	85	8	25	175
Through Vol	240	162	222	207
RT Vol	19	125	253	4
Lane Flow Rate	368	304	515	398
Geometry Grp	1	1	1	1
Degree of Util (X)	0.919	0.77	1.23	0.985
Departure Headway (Hd)	9.809	9.91	8.592	9.708
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	372	368	423	378
Service Time	7.809	7.91	6.666	7.708
HCM Lane V/C Ratio	0.989	0.826	1.217	1.053
HCM Control Delay, s/veh	60.8	39.3	149.9	75
HCM Lane LOS	F	E	F	F
HCM 95th-tile Q	9.5	6.3	21	11.4

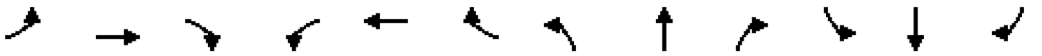
Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	8	0	3	4	0	2	3	329	11	2	395	6
Future Vol, veh/h	8	0	3	4	0	2	3	329	11	2	395	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	2	2	2	2	2	2	3	3	3	3	3	3
Mvmt Flow	9	0	3	4	0	2	3	362	12	2	434	7

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	810	822	437	813	819	368	441	0	0	374	0	0
Stage 1	442	442	-	374	374	-	-	-	-	-	-	-
Stage 2	368	380	-	438	445	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	299	309	619	297	310	678	1114	-	-	1179	-	-
Stage 1	595	576	-	647	618	-	-	-	-	-	-	-
Stage 2	652	614	-	597	575	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	296	307	619	294	308	678	1114	-	-	1179	-	-
Mov Cap-2 Maneuver	296	307	-	294	308	-	-	-	-	-	-	-
Stage 1	593	575	-	644	615	-	-	-	-	-	-	-
Stage 2	647	611	-	592	573	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	15.82	15.12	0.07	0.04
HCM LOS	C	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	16	-	-	345	362	9	-	-
HCM Lane V/C Ratio	0.003	-	-	0.035	0.018	0.002	-	-
HCM Control Delay (s/veh)	8.2	0	-	15.8	15.1	8.1	0	-
HCM Lane LOS	A	A	-	C	C	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.1	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	34	318	128	14	265	148	120	162	18	121	221	34
Future Volume (veh/h)	34	318	128	14	265	148	120	162	18	121	221	34
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	37	346	139	15	288	161	130	176	20	132	240	37
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	2	2	2	3	3	3
Cap, veh/h	153	984	439	73	434	368	290	354	300	289	353	299
Arrive On Green	0.08	0.27	0.27	0.04	0.23	0.23	0.16	0.19	0.19	0.16	0.19	0.19
Sat Flow, veh/h	1810	3610	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Grp Volume(v), veh/h	37	346	139	15	288	161	130	176	20	132	240	37
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Q Serve(g_s), s	1.1	4.6	4.1	0.5	8.2	5.1	3.9	5.0	0.6	4.0	7.2	1.2
Cycle Q Clear(g_c), s	1.1	4.6	4.1	0.5	8.2	5.1	3.9	5.0	0.6	4.0	7.2	1.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	153	984	439	73	434	368	290	354	300	289	353	299
V/C Ratio(X)	0.24	0.35	0.32	0.20	0.66	0.44	0.45	0.50	0.07	0.46	0.68	0.12
Avail Cap(c_a), veh/h	635	2051	915	635	1080	915	625	1063	901	620	1054	894
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	25.6	17.5	17.3	27.8	21.0	19.8	22.6	21.7	19.9	22.6	22.5	20.1
Incr Delay (d2), s/veh	0.3	0.3	0.6	0.5	2.9	1.3	0.4	1.2	0.1	0.4	3.3	0.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	1.6	1.3	0.2	3.4	1.8	1.5	2.0	0.2	1.6	3.2	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	25.9	17.8	18.0	28.3	23.8	21.1	23.0	22.9	20.0	23.1	25.8	20.4
LnGrp LOS	C	B	B	C	C	C	C	C	C	C	C	C
Approach Vol, veh/h		522			464			326			409	
Approach Delay, s/veh		18.4			23.0			22.8			24.4	
Approach LOS		B			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.7	17.4	9.1	19.7	13.8	17.3	6.4	22.3
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	5.9	9.2	3.1	10.2	6.0	7.0	2.5	6.6
Green Ext Time (p_c), s	0.1	2.2	0.0	3.4	0.1	1.0	0.0	3.9

Intersection Summary	
HCM 7th Control Delay, s/veh	21.9
HCM 7th LOS	C

Intersection	
Int Delay, s/veh	0

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	48	0	0	5	0
Future Vol, veh/h	0	48	0	0	5	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	52	0	0	5	0

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	11	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	11	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	1009	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1012	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1009	-	-	-	-	-
Mov Cap-2 Maneuver	1009	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1012	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v		0	
HCM LOS	-		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s/veh)	-	-	-	-	-
HCM Lane LOS	-	-	-	-	-
HCM 95th %tile Q(veh)	-	-	-	-	-

Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	243	5	0	311	0	21
Future Vol, veh/h	243	5	0	311	0	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	264	5	0	338	0	23

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	267
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	772
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	772
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	9.81
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	772	-	-	-
HCM Lane V/C Ratio	0.03	-	-	-
HCM Control Delay (s/veh)	9.8	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-

Intersection	
Int Delay, s/veh	0.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	254	10	22	311	0	28
Future Vol, veh/h	254	10	22	311	0	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	276	11	24	338	0	30

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	287	0	-	282
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	4.12	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	2.218	-	-	3.318
Pot Cap-1 Maneuver	-	-	1275	-	0	757
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1275	-	-	757
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.52	9.95
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	757	-	-	1275	-
HCM Lane V/C Ratio	0.04	-	-	0.019	-
HCM Control Delay (s/veh)	10	-	-	7.9	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

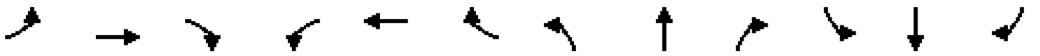
Intersection	
Int Delay, s/veh	0.6

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	274	7	0	333	0	41
Future Vol, veh/h	274	7	0	333	0	41
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	298	8	0	362	0	45

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	302
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	738
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	738
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.19
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	738	-	-	-
HCM Lane V/C Ratio	0.06	-	-	-
HCM Control Delay (s/veh)	10.2	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.2	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	109	121	94	141	124	119	731	120	103	560	40
Future Volume (veh/h)	21	109	121	94	141	124	119	731	120	103	560	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	24	127	141	109	164	144	138	850	140	120	651	47
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %	2	2	2	0	0	0	1	1	1	0	0	0
Cap, veh/h	74	348	295	167	202	177	174	1778	552	171	1780	552
Arrive On Green	0.04	0.19	0.19	0.09	0.22	0.22	0.10	0.35	0.35	0.09	0.34	0.34
Sat Flow, veh/h	1781	1870	1585	1810	933	819	1795	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	24	127	141	109	0	308	138	850	140	120	651	47
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1810	0	1753	1795	1716	1598	1810	1729	1610
Q Serve(g_s), s	1.0	4.7	6.2	4.6	0.0	13.1	5.9	10.2	4.9	5.0	7.4	1.6
Cycle Q Clear(g_c), s	1.0	4.7	6.2	4.6	0.0	13.1	5.9	10.2	4.9	5.0	7.4	1.6
Prop In Lane	1.00		1.00	1.00		0.47	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	74	348	295	167	0	380	174	1778	552	171	1780	552
V/C Ratio(X)	0.32	0.37	0.48	0.65	0.00	0.81	0.79	0.48	0.25	0.70	0.37	0.09
Avail Cap(c_a), veh/h	313	560	475	355	0	525	336	2577	800	339	2597	806
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	36.5	27.9	28.5	34.4	0.0	29.2	34.7	20.1	18.4	34.5	19.4	17.4
Incr Delay (d2), s/veh	0.9	0.8	1.5	1.6	0.0	10.5	3.1	0.6	0.8	2.0	0.4	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	2.0	2.3	2.0	0.0	6.2	2.7	4.0	1.8	2.3	2.9	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	37.5	28.7	30.0	36.0	0.0	39.7	37.8	20.8	19.2	36.4	19.8	17.7
LnGrp LOS	D	C	C	D		D	D	C	B	D	B	B
Approach Vol, veh/h		292			417			1128			818	
Approach Delay, s/veh		30.0			38.7			22.7			22.1	
Approach LOS		C			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.9	32.6	9.5	23.5	12.7	32.8	11.9	21.1
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	7.9	9.4	3.0	15.1	7.0	12.2	6.6	8.2
Green Ext Time (p_c), s	0.1	11.3	0.0	1.9	0.1	15.0	0.1	1.1

Intersection Summary	
HCM 7th Control Delay, s/veh	25.8
HCM 7th LOS	C

Movement	EBL	EBR	NBL	NBT	SBU	SBT	SBR
Lane Configurations							
Traffic Volume (veh/h)	136	193	199	899	0	697	102
Future Volume (veh/h)	136	193	199	899	0	697	102
Initial Q (Qb), veh	0	0	0	0		0	0
Lane Width Adj.	1.00	1.00	1.00	1.00		1.00	1.00
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00				1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Work Zone On Approach	No			No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870		1856	1856
Adj Flow Rate, veh/h	143	203	209	946		734	107
Peak Hour Factor	0.95	0.95	0.95	0.95		0.95	0.95
Percent Heavy Veh, %	2	2	2	2		3	3
Cap, veh/h	352	313	476	3054		1759	546
Arrive On Green	0.20	0.20	0.14	0.60		0.35	0.35
Sat Flow, veh/h	1781	1585	3456	5274		5233	1572
Grp Volume(v), veh/h	143	203	209	946		734	107
Grp Sat Flow(s),veh/h/ln	1781	1585	1728	1702		1689	1572
Q Serve(g_s), s	3.9	6.6	3.1	5.1		6.2	2.7
Cycle Q Clear(g_c), s	3.9	6.6	3.1	5.1		6.2	2.7
Prop In Lane	1.00	1.00	1.00				1.00
Lane Grp Cap(c), veh/h	352	313	476	3054		1759	546
V/C Ratio(X)	0.41	0.65	0.44	0.31		0.42	0.20
Avail Cap(c_a), veh/h	776	691	849	3054		2661	826
HCM Platoon Ratio	1.00	1.00	1.00	1.00		1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00		1.00	1.00
Uniform Delay (d), s/veh	19.5	20.6	22.1	5.5		13.9	12.7
Incr Delay (d2), s/veh	2.1	6.1	0.2	0.2		0.5	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	2.6	1.2	1.4		2.2	0.9
Unsig. Movement Delay, s/veh							
LnGrp Delay(d), s/veh	21.6	26.7	22.3	5.7		14.4	13.3
LnGrp LOS	C	C	C	A		B	B
Approach Vol, veh/h	346			1155		841	
Approach Delay, s/veh	24.6			8.7		14.3	
Approach LOS	C			A		B	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	14.0	25.1			39.1	16.7
Change Period (Y+Rc), s	6.3	5.7			5.7	5.7
Max Green Setting (Gmax), s	13.7	29.3			29.3	24.3
Max Q Clear Time (g_c+I1), s	5.1	8.2			7.1	8.6
Green Ext Time (p_c), s	0.2	11.2			13.4	2.5

Intersection Summary	
HCM 7th Control Delay, s/veh	13.1
HCM 7th LOS	B

Notes

User approved ignoring U-Turning movement.

Intersection	
Int Delay, s/veh	0.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	312	8	8	307	0	33	0	0	0	0	1
Future Vol, veh/h	1	312	8	8	307	0	33	0	0	0	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	332	9	9	327	0	35	0	0	0	0	1

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	327	0	0	340	0	0	682	682	336	678	686	327
Stage 1	-	-	-	-	-	-	338	338	-	344	344	-
Stage 2	-	-	-	-	-	-	344	344	-	334	343	-
Critical Hdwy	4.12	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.218	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1233	-	-	1230	-	-	367	375	710	369	373	719
Stage 1	-	-	-	-	-	-	680	644	-	676	641	-
Stage 2	-	-	-	-	-	-	676	641	-	684	641	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1233	-	-	1230	-	-	363	371	710	366	369	719
Mov Cap-2 Maneuver	-	-	-	-	-	-	363	371	-	366	369	-
Stage 1	-	-	-	-	-	-	680	643	-	670	635	-
Stage 2	-	-	-	-	-	-	669	635	-	683	641	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.02	0.2	15.99	10.01
HCM LOS			C	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	363	6	-	-	1230	-	-	719
HCM Lane V/C Ratio	0.097	0.001	-	-	0.007	-	-	0.001
HCM Control Delay (s/veh)	16	7.9	0	-	7.9	-	-	10
HCM Lane LOS	C	A	A	-	A	-	-	B
HCM 95th %tile Q(veh)	0.3	0	-	-	0	-	-	0

Intersection	
Intersection Delay, s/veh	91.1
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	5	197	82	15	233	179	127	259	30	187	168	7
Future Vol, veh/h	5	197	82	15	233	179	127	259	30	187	168	7
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	2	2	2	0	0	0	2	2	2	3	3	3
Mvmt Flow	5	212	88	16	251	192	137	278	32	201	181	8
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	43.6	110.7	114.8	78.1
HCM LOS	E	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	31%	2%	4%	52%
Vol Thru, %	62%	69%	55%	46%
Vol Right, %	7%	29%	42%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	416	284	427	362
LT Vol	127	5	15	187
Through Vol	259	197	233	168
RT Vol	30	82	179	7
Lane Flow Rate	447	305	459	389
Geometry Grp	1	1	1	1
Degree of Util (X)	1.122	0.797	1.114	0.992
Departure Headway (Hd)	9.582	10.273	9.267	10.005
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	380	354	395	366
Service Time	7.582	8.273	7.267	8.005
HCM Lane V/C Ratio	1.176	0.862	1.162	1.063
HCM Control Delay, s/veh	114.8	43.6	110.7	78.1
HCM Lane LOS	F	E	F	F
HCM 95th-tile Q	15.8	6.7	15.8	11.4

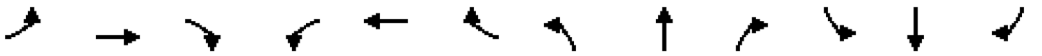
Intersection	
Int Delay, s/veh	0.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		⇕			⇕			⇕			⇕	
Traffic Vol, veh/h	0	0	2	9	0	2	0	404	2	0	289	1
Future Vol, veh/h	0	0	2	9	0	2	0	404	2	0	289	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	92	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	3	3	3
Mvmt Flow	0	0	2	9	0	2	0	439	2	0	304	1

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	744	746	305	744	745	440	305	0	0	441	0	0
Stage 1	305	305	-	440	440	-	-	-	-	-	-	-
Stage 2	439	441	-	304	305	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.227	-	-
Pot Cap-1 Maneuver	331	342	735	330	342	617	1256	-	-	1113	-	-
Stage 1	705	662	-	596	577	-	-	-	-	-	-	-
Stage 2	597	577	-	705	662	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	330	342	735	329	342	617	1256	-	-	1113	-	-
Mov Cap-2 Maneuver	330	342	-	329	342	-	-	-	-	-	-	-
Stage 1	705	662	-	596	577	-	-	-	-	-	-	-
Stage 2	595	577	-	703	662	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	9.91	15.33	0	0
HCM LOS	A	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1256	-	-	735	360	1113	-	-
HCM Lane V/C Ratio	-	-	-	0.003	0.032	-	-	-
HCM Control Delay (s/veh)	0	-	-	9.9	15.3	0	-	-
HCM Lane LOS	A	-	-	A	C	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.1	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	44	295	111	6	240	123	129	236	24	68	188	36
Future Volume (veh/h)	44	295	111	6	240	123	129	236	24	68	188	36
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	46	311	117	6	253	129	136	248	25	72	198	38
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	2	2	2	3	3	3
Cap, veh/h	181	1050	469	32	396	336	305	386	327	233	310	262
Arrive On Green	0.10	0.29	0.29	0.02	0.21	0.21	0.17	0.21	0.21	0.13	0.17	0.17
Sat Flow, veh/h	1810	3610	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Grp Volume(v), veh/h	46	311	117	6	253	129	136	248	25	72	198	38
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Q Serve(g_s), s	1.3	3.8	3.1	0.2	6.9	3.9	3.9	6.9	0.7	2.1	5.6	1.2
Cycle Q Clear(g_c), s	1.3	3.8	3.1	0.2	6.9	3.9	3.9	6.9	0.7	2.1	5.6	1.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	181	1050	469	32	396	336	305	386	327	233	310	262
V/C Ratio(X)	0.25	0.30	0.25	0.19	0.64	0.38	0.45	0.64	0.08	0.31	0.64	0.14
Avail Cap(c_a), veh/h	671	2168	967	671	1141	967	661	1123	952	656	1114	944
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.5	15.6	15.3	27.4	20.5	19.3	21.0	20.5	18.1	22.2	22.0	20.1
Incr Delay (d2), s/veh	0.3	0.2	0.4	1.1	2.8	1.2	0.4	1.9	0.1	0.3	3.1	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	1.3	1.0	0.1	2.8	1.3	1.4	2.8	0.2	0.8	2.5	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	23.8	15.8	15.8	28.5	23.3	20.5	21.4	22.5	18.2	22.5	25.1	20.5
LnGrp LOS	C	B	B	C	C	C	C	C	B	C	C	C
Approach Vol, veh/h		474			388			409			308	
Approach Delay, s/veh		16.6			22.4			21.9			23.9	
Approach LOS		B			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.7	15.4	9.7	17.8	11.5	17.7	5.0	22.5
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	5.9	7.6	3.3	8.9	4.1	8.9	2.2	5.8
Green Ext Time (p_c), s	0.1	1.8	0.0	2.9	0.1	1.4	0.0	3.4

Intersection Summary	
HCM 7th Control Delay, s/veh	20.8
HCM 7th LOS	C

Intersection	
Int Delay, s/veh	0

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	33	0	0	16	0
Future Vol, veh/h	0	33	0	0	16	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	36	0	0	17	0

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	35	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	35	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	978	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	988	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	978	-	-	-	-	-
Mov Cap-2 Maneuver	978	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	988	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v		0	
HCM LOS	-		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	-	-	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s/veh)	-	-	-	-	-
HCM Lane LOS	-	-	-	-	-
HCM 95th %tile Q(veh)	-	-	-	-	-

Intersection	
Int Delay, s/veh	0.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	292	16	0	310	0	14
Future Vol, veh/h	292	16	0	310	0	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	317	17	0	337	0	15

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	326
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	715
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	715
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.14
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	715	-	-	-
HCM Lane V/C Ratio	0.021	-	-	-
HCM Control Delay (s/veh)	10.1	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-

Intersection	
Int Delay, s/veh	1.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	275	31	71	310	0	19
Future Vol, veh/h	275	31	71	310	0	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	299	34	77	337	0	21

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	333	0	-	316
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	4.12	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	2.218	-	-	3.318
Pot Cap-1 Maneuver	-	-	1227	-	0	725
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1227	-	-	725
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	1.52	10.11
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	725	-	-	1227	-
HCM Lane V/C Ratio	0.028	-	-	0.063	-
HCM Control Delay (s/veh)	10.1	-	-	8.1	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.2	-

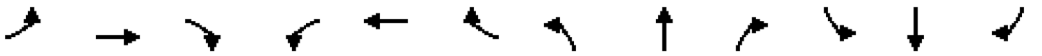
Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	270	24	0	381	0	28
Future Vol, veh/h	270	24	0	381	0	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	293	26	0	414	0	30

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	307
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	733
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	733
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.12
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	733	-	-	-
HCM Lane V/C Ratio	0.041	-	-	-
HCM Control Delay (s/veh)	10.1	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	81	155	221	213	179	187	149	729	117	90	682	55
Future Volume (veh/h)	81	155	221	213	179	187	149	729	117	90	682	55
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	84	160	228	220	185	193	154	752	121	93	703	57
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	3	3	3
Cap, veh/h	144	383	325	258	210	219	190	1544	479	149	1419	441
Arrive On Green	0.08	0.21	0.21	0.14	0.25	0.25	0.11	0.30	0.30	0.08	0.28	0.28
Sat Flow, veh/h	1767	1856	1572	1781	838	875	1781	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	84	160	228	220	0	378	154	752	121	93	703	57
Grp Sat Flow(s),veh/h/ln	1767	1856	1572	1781	0	1713	1781	1702	1585	1767	1689	1572
Q Serve(g_s), s	3.9	6.3	11.3	10.2	0.0	17.9	7.1	10.1	4.9	4.3	9.8	2.3
Cycle Q Clear(g_c), s	3.9	6.3	11.3	10.2	0.0	17.9	7.1	10.1	4.9	4.3	9.8	2.3
Prop In Lane	1.00		1.00	1.00		0.51	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	144	383	325	258	0	429	190	1544	479	149	1419	441
V/C Ratio(X)	0.58	0.42	0.70	0.85	0.00	0.88	0.81	0.49	0.25	0.63	0.50	0.13
Avail Cap(c_a), veh/h	289	518	439	326	0	478	311	2382	739	308	2363	734
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.3	29.0	31.0	35.2	0.0	30.4	36.8	24.0	22.2	37.3	25.3	22.6
Incr Delay (d2), s/veh	1.4	0.9	3.7	13.7	0.0	18.2	3.2	0.8	0.9	1.6	0.9	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	2.8	4.4	5.2	0.0	9.1	3.2	4.1	1.8	1.9	3.9	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	38.7	29.9	34.7	48.8	0.0	48.6	40.0	24.8	23.1	38.9	26.2	23.1
LnGrp LOS	D	C	C	D		D	D	C	C	D	C	C
Approach Vol, veh/h		472			598			1027			853	
Approach Delay, s/veh		33.8			48.7			26.9			27.4	
Approach LOS		C			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.3	29.3	13.1	27.6	12.4	31.2	16.8	23.9
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	9.1	11.8	5.9	19.9	6.3	12.1	12.2	13.3
Green Ext Time (p_c), s	0.1	11.8	0.0	1.2	0.1	13.2	0.1	1.4

Intersection Summary	
HCM 7th Control Delay, s/veh	32.6
HCM 7th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	208	70	191	104	95	31	121	772	79	23	928	201
Future Volume (veh/h)	208	70	191	104	95	31	121	772	79	23	928	201
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	214	72	197	107	98	32	125	796	81	24	957	207
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	0	0	0	2	2	2	3	3	3
Cap, veh/h	277	310	262	163	190	161	321	2200	683	73	1858	577
Arrive On Green	0.16	0.17	0.17	0.09	0.10	0.10	0.09	0.43	0.43	0.04	0.37	0.37
Sat Flow, veh/h	1781	1870	1585	1810	1900	1610	3456	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	214	72	197	107	98	32	125	796	81	24	957	207
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1810	1900	1610	1728	1702	1585	1767	1689	1572
Q Serve(g_s), s	9.3	2.7	9.6	4.6	4.0	1.5	2.8	8.5	2.5	1.1	11.9	7.8
Cycle Q Clear(g_c), s	9.3	2.7	9.6	4.6	4.0	1.5	2.8	8.5	2.5	1.1	11.9	7.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	277	310	262	163	190	161	321	2200	683	73	1858	577
V/C Ratio(X)	0.77	0.23	0.75	0.66	0.52	0.20	0.39	0.36	0.12	0.33	0.52	0.36
Avail Cap(c_a), veh/h	589	555	471	493	454	385	372	2464	765	175	2338	726
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	32.7	29.3	32.1	35.6	34.5	33.4	34.5	15.5	13.8	37.7	20.0	18.7
Incr Delay (d2), s/veh	11.7	1.0	11.2	11.7	5.9	1.7	0.3	0.3	0.3	1.0	0.8	1.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.7	1.2	4.3	2.5	2.1	0.6	1.1	3.2	0.9	0.5	4.6	2.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	44.5	30.3	43.3	47.3	40.4	35.1	34.8	15.8	14.1	38.6	20.7	20.0
LnGrp LOS	D	C	D	D	D	D	C	B	B	D	C	B
Approach Vol, veh/h		483			237			1002			1188	
Approach Delay, s/veh		41.9			42.8			18.1			21.0	
Approach LOS		D			D			B			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.6	40.5	17.9	13.8	13.8	35.3	12.6	19.1
Change Period (Y+Rc), s	5.3	5.7	5.3	5.7	6.3	5.7	5.3	5.7
Max Green Setting (Gmax), s	3.3	39.0	26.7	19.3	8.7	37.3	22.0	24.0
Max Q Clear Time (g_c+I1), s	3.1	10.5	11.3	6.0	4.8	13.9	6.6	11.6
Green Ext Time (p_c), s	0.0	14.1	1.4	0.9	0.1	15.7	0.6	1.8

Intersection Summary	
HCM 7th Control Delay, s/veh	25.2
HCM 7th LOS	C

Intersection	
Int Delay, s/veh	4.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	270	29	15	490	2	79	30	15	7	24	0
Future Vol, veh/h	0	270	29	15	490	2	79	30	15	7	24	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	1	1	1	0	0	0	0	0	0
Mvmt Flow	0	293	32	16	533	2	86	33	16	8	26	0

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	535	0	0	325	0	0	888	877	309	876	891	534
Stage 1	-	-	-	-	-	-	309	309	-	566	566	-
Stage 2	-	-	-	-	-	-	578	567	-	310	325	-
Critical Hdwy	4.13	-	-	4.11	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.227	-	-	2.209	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1028	-	-	1240	-	-	267	289	736	271	284	550
Stage 1	-	-	-	-	-	-	705	663	-	512	510	-
Stage 2	-	-	-	-	-	-	505	510	-	705	653	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1028	-	-	1240	-	-	238	284	736	231	278	550
Mov Cap-2 Maneuver	-	-	-	-	-	-	238	284	-	231	278	-
Stage 1	-	-	-	-	-	-	705	663	-	503	501	-
Stage 2	-	-	-	-	-	-	470	500	-	655	653	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0	0.23	30.85	20.48
HCM LOS			D	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	270	1028	-	-	53	-	-	266
HCM Lane V/C Ratio	0.498	-	-	-	0.013	-	-	0.127
HCM Control Delay (s/veh)	30.8	0	-	-	7.9	0	-	20.5
HCM Lane LOS	D	A	-	-	A	A	-	C
HCM 95th %tile Q(veh)	2.6	0	-	-	0	-	-	0.4

Intersection	
Intersection Delay, s/veh	170.6
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	9	184	149	25	280	258	121	275	19	188	282	7
Future Vol, veh/h	9	184	149	25	280	258	121	275	19	188	282	7
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Heavy Vehicles, %	3	3	3	1	1	1	3	3	3	3	3	3
Mvmt Flow	9	190	154	26	289	266	125	284	20	194	291	7
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	69	253.4	124.6	185.9
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	29%	3%	4%	39%
Vol Thru, %	66%	54%	50%	59%
Vol Right, %	5%	44%	46%	1%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	415	342	563	477
LT Vol	121	9	25	188
Through Vol	275	184	280	282
RT Vol	19	149	258	7
Lane Flow Rate	428	353	580	492
Geometry Grp	1	1	1	1
Degree of Util (X)	1.123	0.912	1.47	1.296
Departure Headway (Hd)	11.817	12.24	10.366	11.312
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	312	300	354	325
Service Time	9.817	10.24	8.366	9.312
HCM Lane V/C Ratio	1.372	1.177	1.638	1.514
HCM Control Delay, s/veh	124.6	69	253.4	185.9
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	13.9	8.5	27.4	19.6

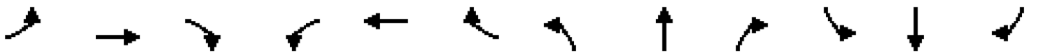
Intersection	
Int Delay, s/veh	29.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	34	69	67	8	75	2	61	427	14	2	564	34
Future Vol, veh/h	34	69	67	8	75	2	61	427	14	2	564	34
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	3	3	3	3	3	3
Mvmt Flow	37	75	73	9	82	2	66	464	15	2	613	37

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1273	1248	632	1259	1259	472	650	0	0	479	0	0
Stage 1	636	636	-	604	604	-	-	-	-	-	-	-
Stage 2	638	612	-	655	654	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.227	-	-	2.227	-	-
Pot Cap-1 Maneuver	144	173	481	147	171	592	931	-	-	1078	-	-
Stage 1	466	472	-	485	488	-	-	-	-	-	-	-
Stage 2	465	484	-	455	463	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	64	156	481	61	154	592	931	-	-	1078	-	-
Mov Cap-2 Maneuver	64	156	-	61	154	-	-	-	-	-	-	-
Stage 1	465	470	-	438	440	-	-	-	-	-	-	-
Stage 2	341	437	-	324	461	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/veh	98.42	73.92	1.11	0.03
HCM LOS	F	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	217	-	-	153	137	6	-	-
HCM Lane V/C Ratio	0.071	-	-	1.21	0.676	0.002	-	-
HCM Control Delay (s/veh)	9.2	0	-	198.4	73.9	8.3	0	-
HCM Lane LOS	A	A	-	F	F	A	A	-
HCM 95th %tile Q(veh)	0.2	-	-	10.6	3.7	0	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	103	401	265	43	339	220	200	318	36	217	570	143
Future Volume (veh/h)	103	401	265	43	339	220	200	318	36	217	570	143
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	112	436	288	47	368	239	217	346	39	236	620	155
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	179	932	415	138	448	380	249	584	495	268	604	512
Arrive On Green	0.10	0.26	0.26	0.08	0.24	0.24	0.14	0.31	0.31	0.15	0.33	0.33
Sat Flow, veh/h	1767	3526	1572	1767	1856	1572	1767	1856	1572	1767	1856	1572
Grp Volume(v), veh/h	112	436	288	47	368	239	217	346	39	236	620	155
Grp Sat Flow(s),veh/h/ln	1767	1763	1572	1767	1856	1572	1767	1856	1572	1767	1856	1572
Q Serve(g_s), s	6.4	10.9	17.2	2.6	19.6	14.2	12.6	16.4	1.8	13.7	34.0	7.7
Cycle Q Clear(g_c), s	6.4	10.9	17.2	2.6	19.6	14.2	12.6	16.4	1.8	13.7	34.0	7.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	179	932	415	138	448	380	249	584	495	268	604	512
V/C Ratio(X)	0.63	0.47	0.69	0.34	0.82	0.63	0.87	0.59	0.08	0.88	1.03	0.30
Avail Cap(c_a), veh/h	355	1147	512	355	604	512	355	604	512	355	604	512
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.1	32.3	34.6	45.6	37.5	35.5	44.0	30.2	25.2	43.4	35.2	26.4
Incr Delay (d2), s/veh	1.3	0.6	3.9	0.5	8.3	2.8	11.7	1.5	0.1	15.0	43.7	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.7	4.4	6.6	1.1	9.4	5.4	6.1	7.2	0.7	7.0	22.3	2.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	46.4	32.8	38.6	46.1	45.8	38.3	55.7	31.7	25.2	58.4	78.9	26.9
LnGrp LOS	D	C	D	D	D	D	E	C	C	E	F	C
Approach Vol, veh/h		836			654			602			1011	
Approach Delay, s/veh		36.6			43.1			39.9			66.2	
Approach LOS		D			D			D			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.7	40.0	14.6	31.2	19.8	38.9	12.2	33.6
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	14.6	36.0	8.4	21.6	15.7	18.4	4.6	19.2
Green Ext Time (p_c), s	0.2	0.0	0.1	3.6	0.2	1.9	0.0	4.6

Intersection Summary	
HCM 7th Control Delay, s/veh	48.3
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	2.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	48	75	0	5	57
Future Vol, veh/h	0	48	75	0	5	57
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	52	82	0	5	62

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	154	82	0	0	82	0
Stage 1	82	-	-	-	-	-
Stage 2	73	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	837	978	-	-	1516	-
Stage 1	942	-	-	-	-	-
Stage 2	950	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	834	978	-	-	1516	-
Mov Cap-2 Maneuver	834	-	-	-	-	-
Stage 1	942	-	-	-	-	-
Stage 2	947	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	8.89	0	0.6
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	978	145	-
HCM Lane V/C Ratio	-	-	0.053	0.004	-
HCM Control Delay (s/veh)	-	-	8.9	7.4	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.2	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑			↑		↱
Traffic Vol, veh/h	276	5	0	349	0	21
Future Vol, veh/h	276	5	0	349	0	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	300	5	0	379	0	23

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	303
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	737
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	737
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.04
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	737	-	-	-
HCM Lane V/C Ratio	0.031	-	-	-
HCM Control Delay (s/veh)	10	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-

Intersection	
Int Delay, s/veh	0.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	287	10	22	349	0	28
Future Vol, veh/h	287	10	22	349	0	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	312	11	24	379	0	30

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	323	0	-	317
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	4.12	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	2.218	-	-	3.318
Pot Cap-1 Maneuver	-	-	1237	-	0	723
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1237	-	-	723
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.47	10.2
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	723	-	-	1237	-
HCM Lane V/C Ratio	0.042	-	-	0.019	-
HCM Control Delay (s/veh)	10.2	-	-	8	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

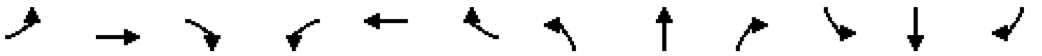
Intersection	
Int Delay, s/veh	0.6

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑			↑		↱
Traffic Vol, veh/h	307	7	0	371	0	41
Future Vol, veh/h	307	7	0	371	0	41
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	334	8	0	403	0	45

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	337
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	705
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	705
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.45
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	705	-	-	-
HCM Lane V/C Ratio	0.063	-	-	-
HCM Control Delay (s/veh)	10.5	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.2	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	150	180	217	175	159	174	786	269	141	604	40
Future Volume (veh/h)	21	150	180	217	175	159	174	786	269	141	604	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	23	163	196	236	190	173	189	854	292	153	657	43
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	0	0	0	1	1	1	0	0	0
Cap, veh/h	69	293	248	272	229	208	225	1759	546	188	1662	516
Arrive On Green	0.04	0.16	0.16	0.15	0.25	0.25	0.13	0.34	0.34	0.10	0.32	0.32
Sat Flow, veh/h	1781	1870	1585	1810	916	834	1795	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	23	163	196	236	0	363	189	854	292	153	657	43
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1810	0	1750	1795	1716	1598	1810	1729	1610
Q Serve(g_s), s	1.1	7.2	10.6	11.4	0.0	17.5	9.2	11.7	13.1	7.4	8.8	1.7
Cycle Q Clear(g_c), s	1.1	7.2	10.6	11.4	0.0	17.5	9.2	11.7	13.1	7.4	8.8	1.7
Prop In Lane	1.00		1.00	1.00		0.48	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	69	293	248	272	0	437	225	1759	546	188	1662	516
V/C Ratio(X)	0.33	0.56	0.79	0.87	0.00	0.83	0.84	0.49	0.53	0.81	0.40	0.08
Avail Cap(c_a), veh/h	275	492	417	312	0	461	296	2266	703	298	2284	709
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.8	34.8	36.2	37.1	0.0	31.7	38.2	23.2	23.7	39.2	23.6	21.2
Incr Delay (d2), s/veh	1.0	2.0	6.6	18.3	0.0	13.4	12.2	0.7	2.6	4.2	0.5	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	3.3	4.4	6.2	0.0	8.6	4.7	4.7	5.0	3.4	3.6	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	42.8	36.8	42.9	55.4	0.0	45.0	50.3	23.9	26.3	43.4	24.1	21.4
LnGrp LOS	D	D	D	E		D	D	C	C	D	C	C
Approach Vol, veh/h		382			599			1335			853	
Approach Delay, s/veh		40.3			49.1			28.1			27.4	
Approach LOS		D			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.5	34.3	9.7	28.8	14.6	36.2	18.0	20.5
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	14.7	39.3	13.8	23.5	14.7	39.3	15.4	23.5
Max Q Clear Time (g_c+I1), s	11.2	10.8	3.1	19.5	9.4	15.1	13.4	12.6
Green Ext Time (p_c), s	0.1	11.1	0.0	1.3	0.1	15.4	0.1	1.4

Intersection Summary	
HCM 7th Control Delay, s/veh	33.4
HCM 7th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	222	124	244	145	115	55	238	1039	152	56	786	184
Future Volume (veh/h)	222	124	244	145	115	55	238	1039	152	56	786	184
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	234	131	257	153	121	58	251	1094	160	59	827	194
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	1	1	1	0	0	0
Cap, veh/h	172	394	334	172	394	334	332	1542	479	99	1346	418
Arrive On Green	0.10	0.21	0.21	0.10	0.21	0.21	0.10	0.30	0.30	0.05	0.26	0.26
Sat Flow, veh/h	1810	1900	1610	1810	1900	1610	3483	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	234	131	257	153	121	58	251	1094	160	59	827	194
Grp Sat Flow(s),veh/h/ln	1810	1900	1610	1810	1900	1610	1742	1716	1598	1810	1729	1610
Q Serve(g_s), s	5.0	3.1	7.9	4.4	2.8	1.6	3.7	9.9	4.1	1.7	7.4	5.3
Cycle Q Clear(g_c), s	5.0	3.1	7.9	4.4	2.8	1.6	3.7	9.9	4.1	1.7	7.4	5.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	172	394	334	172	394	334	332	1542	479	99	1346	418
V/C Ratio(X)	1.36	0.33	0.77	0.89	0.31	0.17	0.76	0.71	0.33	0.59	0.61	0.46
Avail Cap(c_a), veh/h	172	651	552	172	651	552	332	1764	548	172	1778	552
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.8	17.7	19.6	23.5	17.6	17.1	23.2	16.4	14.3	24.2	17.1	16.4
Incr Delay (d2), s/veh	194.0	0.5	3.8	38.6	0.4	0.2	9.6	1.1	0.4	5.5	0.5	0.8
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.2	1.2	3.0	3.6	1.2	0.5	1.8	3.6	1.4	0.8	2.7	1.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	217.7	18.2	23.4	62.1	18.1	17.4	32.8	17.5	14.7	29.8	17.6	17.2
LnGrp LOS	F	B	C	E	B	B	C	B	B	C	B	B
Approach Vol, veh/h		622			332			1505			1080	
Approach Delay, s/veh		95.4			38.2			19.7			18.2	
Approach LOS		F			D			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.4	20.2	9.5	15.4	9.5	18.1	9.5	15.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.0	18.0	5.0	18.0	5.0	18.0	5.0	18.0
Max Q Clear Time (g_c+I1), s	3.7	11.9	6.4	9.9	5.7	9.4	7.0	4.8
Green Ext Time (p_c), s	0.0	3.8	0.0	1.0	0.0	4.1	0.0	0.6

Intersection Summary	
HCM 7th Control Delay, s/veh	34.3
HCM 7th LOS	C

Intersection	
Int Delay, s/veh	6.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		⇕			⇕			⇕			⇕	
Traffic Vol, veh/h	1	422	49	27	379	7	76	39	20	2	39	1
Future Vol, veh/h	1	422	49	27	379	7	76	39	20	2	39	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	449	52	29	403	7	81	41	21	2	41	1

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	411	0	0	501	0	0	959	945	475	936	968	407
Stage 1	-	-	-	-	-	-	477	477	-	464	464	-
Stage 2	-	-	-	-	-	-	481	468	-	472	503	-
Critical Hdwy	4.12	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.218	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	1148	-	-	1074	-	-	239	264	594	247	256	649
Stage 1	-	-	-	-	-	-	573	559	-	582	567	-
Stage 2	-	-	-	-	-	-	570	565	-	577	545	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1148	-	-	1074	-	-	192	254	594	193	247	649
Mov Cap-2 Maneuver	-	-	-	-	-	-	192	254	-	193	247	-
Stage 1	-	-	-	-	-	-	572	559	-	562	547	-
Stage 2	-	-	-	-	-	-	507	545	-	514	544	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.02	0.55	42.86	22.75
HCM LOS			E	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	232	4	-	-	117	-	-	247
HCM Lane V/C Ratio	0.619	0.001	-	-	0.027	-	-	0.181
HCM Control Delay (s/veh)	42.9	8.1	0	-	8.4	0	-	22.7
HCM Lane LOS	E	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	3.7	0	-	-	0.1	-	-	0.6

Intersection	
Intersection Delay, s/veh	214.6
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	6	257	122	15	287	187	172	351	31	194	223	8
Future Vol, veh/h	6	257	122	15	287	187	172	351	31	194	223	8
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	2	2	2	0	0	0	2	2	2	3	3	3
Mvmt Flow	6	276	131	16	309	201	185	377	33	209	240	9
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	118.7	218.1	312.6	169.5
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	31%	2%	3%	46%
Vol Thru, %	63%	67%	59%	52%
Vol Right, %	6%	32%	38%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	554	385	489	425
LT Vol	172	6	15	194
Through Vol	351	257	287	223
RT Vol	31	122	187	8
Lane Flow Rate	596	414	526	457
Geometry Grp	1	1	1	1
Degree of Util (X)	1.598	1.086	1.369	1.235
Departure Headway (Hd)	11.858	13.342	12.149	13.137
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	310	277	305	279
Service Time	9.858	11.342	10.149	11.137
HCM Lane V/C Ratio	1.923	1.495	1.725	1.638
HCM Control Delay, s/veh	312.6	118.7	218.1	169.5
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	29	12	20.9	16

Intersection	
Int Delay, s/veh	146

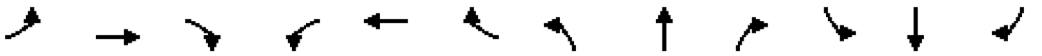
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	38	98	91	15	96	2	88	616	8	1	436	38
Future Vol, veh/h	38	98	91	15	96	2	88	616	8	1	436	38
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	92	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	3	3	3
Mvmt Flow	40	103	96	16	101	2	93	648	8	1	474	40

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1380	1338	494	1365	1354	653	514	0	0	657	0	0
Stage 1	496	496	-	838	838	-	-	-	-	-	-	-
Stage 2	884	842	-	528	516	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.13	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.227	-	-
Pot Cap-1 Maneuver	122	153	575	124	150	468	1052	-	-	926	-	-
Stage 1	556	545	-	361	382	-	-	-	-	-	-	-
Stage 2	340	380	-	534	534	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 25	131	575	22	129	468	1052	-	-	926	-	-
Mov Cap-2 Maneuver	~ 25	131	-	22	129	-	-	-	-	-	-	-
Stage 1	555	544	-	311	329	-	-	-	-	-	-	-
Stage 2	202	327	-	360	533	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, $/veh	$ 797.82	$ 381.32	1.08	0.02
HCM LOS	F	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	222	-	-	94	78	4	-	-
HCM Lane V/C Ratio	0.088	-	-	2.547	1.522	0.001	-	-
HCM Control Delay (s/veh)	8.8	0	-	$ 797.8	$ 381.3	8.9	0	-
HCM Lane LOS	A	A	-	F	F	A	A	-
HCM 95th %tile Q(veh)	0.3	-	-	22.2	9.7	0	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	189	387	259	31	319	240	281	643	52	159	475	152
Future Volume (veh/h)	189	387	259	31	319	240	281	643	52	159	475	152
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	199	407	273	33	336	253	296	677	55	167	500	160
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	2	2	2	3	3	3
Cap, veh/h	230	1018	454	115	415	352	324	678	574	197	542	460
Arrive On Green	0.13	0.28	0.28	0.06	0.22	0.22	0.18	0.36	0.36	0.11	0.29	0.29
Sat Flow, veh/h	1810	3610	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Grp Volume(v), veh/h	199	407	273	33	336	253	296	677	55	167	500	160
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1900	1610	1781	1870	1585	1767	1856	1572
Q Serve(g_s), s	11.9	10.1	16.2	1.9	18.6	16.1	18.0	40.0	2.5	10.3	28.9	8.9
Cycle Q Clear(g_c), s	11.9	10.1	16.2	1.9	18.6	16.1	18.0	40.0	2.5	10.3	28.9	8.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	230	1018	454	115	415	352	324	678	574	197	542	460
V/C Ratio(X)	0.87	0.40	0.60	0.29	0.81	0.72	0.91	1.00	0.10	0.85	0.92	0.35
Avail Cap(c_a), veh/h	343	1109	495	343	584	495	338	678	574	335	570	483
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.4	32.1	34.3	49.4	41.1	40.1	44.4	35.3	23.3	48.2	37.9	30.9
Incr Delay (d2), s/veh	9.9	0.4	2.4	0.5	7.7	4.7	27.1	34.2	0.1	3.9	20.5	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.8	4.2	6.3	0.9	9.1	6.5	10.1	23.5	0.9	4.7	16.0	3.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	57.3	32.5	36.7	50.0	48.7	44.8	71.5	69.5	23.4	52.1	58.5	31.5
LnGrp LOS	E	C	D	D	D	D	E	E	C	D	E	C
Approach Vol, veh/h		879			622			1028			827	
Approach Delay, s/veh		39.4			47.2			67.6			52.0	
Approach LOS		D			D			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.1	38.3	18.0	30.2	16.3	46.1	11.0	37.2
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	21.0	34.0	21.0	34.0	21.0	34.0	21.0	34.0
Max Q Clear Time (g_c+I1), s	20.0	30.9	13.9	20.6	12.3	42.0	3.9	18.2
Green Ext Time (p_c), s	0.1	1.5	0.1	3.6	0.1	0.0	0.0	4.5

Intersection Summary	
HCM 7th Control Delay, s/veh	52.6
HCM 7th LOS	D

Intersection	
Int Delay, s/veh	1.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	33	91	0	16	97
Future Vol, veh/h	0	33	91	0	16	97
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	36	99	0	17	105

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	239	99	0	0	99	0
Stage 1	99	-	-	-	-	-
Stage 2	140	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	749	957	-	-	1494	-
Stage 1	925	-	-	-	-	-
Stage 2	887	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	740	957	-	-	1494	-
Mov Cap-2 Maneuver	740	-	-	-	-	-
Stage 1	925	-	-	-	-	-
Stage 2	876	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	8.91	0	1.05
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	957	255	-
HCM Lane V/C Ratio	-	-	0.037	0.012	-
HCM Control Delay (s/veh)	-	-	8.9	7.4	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	0.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑			↑		↱
Traffic Vol, veh/h	343	16	0	358	0	14
Future Vol, veh/h	343	16	0	358	0	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	373	17	0	389	0	15

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	382
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	666
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	666
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.53
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	666	-	-	-
HCM Lane V/C Ratio	0.023	-	-	-
HCM Control Delay (s/veh)	10.5	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-

Intersection	
Int Delay, s/veh	1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	326	31	71	358	0	19
Future Vol, veh/h	326	31	71	358	0	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	354	34	77	389	0	21

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	388	0	-	371
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	4.12	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	2.218	-	-	3.318
Pot Cap-1 Maneuver	-	-	1170	-	0	675
Stage 1	-	-	-	-	0	-
Stage 2	-	-	-	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1170	-	-	675
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	1.37	10.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	675	-	-	1170	-
HCM Lane V/C Ratio	0.031	-	-	0.066	-
HCM Control Delay (s/veh)	10.5	-	-	8.3	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.2	-

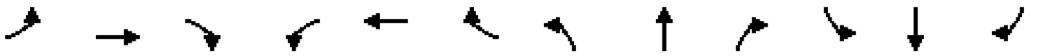
Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑			↑		↱
Traffic Vol, veh/h	321	24	0	429	0	28
Future Vol, veh/h	321	24	0	429	0	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	349	26	0	466	0	30

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	362
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.318
Pot Cap-1 Maneuver	-	-	0	-	0	683
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	683
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	10.52
HCM LOS			B

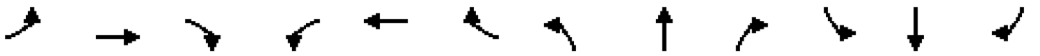
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	683	-	-	-
HCM Lane V/C Ratio	0.045	-	-	-
HCM Control Delay (s/veh)	10.5	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.1	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	8	162	125	25	222	253	85	240	19	175	207	4
Future Volume (veh/h)	8	162	125	25	222	253	85	240	19	175	207	4
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1885	1885	1885	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	8	167	129	26	229	261	88	261	20	180	213	4
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.92	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	1	1	1	3	3	3	3	3	3
Cap, veh/h	123	377	282	135	312	334	237	443	31	370	313	5
Arrive On Green	0.39	0.39	0.39	0.39	0.39	0.39	0.32	0.32	0.32	0.32	0.32	0.32
Sat Flow, veh/h	14	971	726	38	803	861	291	1363	95	624	964	16
Grp Volume(v), veh/h	304	0	0	516	0	0	369	0	0	397	0	0
Grp Sat Flow(s),veh/h/ln	1710	0	0	1703	0	0	1749	0	0	1604	0	0
Q Serve(g_s), s	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
Cycle Q Clear(g_c), s	4.1	0.0	0.0	8.2	0.0	0.0	5.3	0.0	0.0	6.3	0.0	0.0
Prop In Lane	0.03		0.42	0.05		0.51	0.24		0.05	0.45		0.01
Lane Grp Cap(c), veh/h	781	0	0	781	0	0	710	0	0	688	0	0
V/C Ratio(X)	0.39	0.00	0.00	0.66	0.00	0.00	0.52	0.00	0.00	0.58	0.00	0.00
Avail Cap(c_a), veh/h	1094	0	0	1092	0	0	1111	0	0	1038	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	7.1	0.0	0.0	8.4	0.0	0.0	8.9	0.0	0.0	9.2	0.0	0.0
Incr Delay (d2), s/veh	0.3	0.0	0.0	1.0	0.0	0.0	0.6	0.0	0.0	0.8	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0	1.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	7.4	0.0	0.0	9.3	0.0	0.0	9.5	0.0	0.0	9.9	0.0	0.0
LnGrp LOS	A			A			A			A		
Approach Vol, veh/h		304			516			369			397	
Approach Delay, s/veh		7.4			9.3			9.5			9.9	
Approach LOS		A			A			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		14.7		16.7		14.7		16.7				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		18.0		18.0		18.0		18.0				
Max Q Clear Time (g_c+I1), s		7.3		6.1		8.3		10.2				
Green Ext Time (p_c), s		1.7		1.3		1.9		1.9				

Intersection Summary	
HCM 7th Control Delay, s/veh	9.2
HCM 7th LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	5	197	82	15	233	179	127	259	30	187	168	7
Future Volume (veh/h)	5	197	82	15	233	179	127	259	30	187	168	7
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	5	212	88	16	251	192	137	278	32	201	181	8
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	0	0	0	2	2	2	3	3	3
Cap, veh/h	118	446	182	125	354	261	296	429	45	411	293	11
Arrive On Green	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Sat Flow, veh/h	8	1251	511	24	994	732	411	1185	123	663	809	31
Grp Volume(v), veh/h	305	0	0	459	0	0	447	0	0	390	0	0
Grp Sat Flow(s),veh/h/ln	1770	0	0	1751	0	0	1719	0	0	1503	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	4.3	0.0	0.0	7.2	0.0	0.0	6.6	0.0	0.0	6.4	0.0	0.0
Prop In Lane	0.02		0.29	0.03		0.42	0.31		0.07	0.52		0.02
Lane Grp Cap(c), veh/h	745	0	0	740	0	0	770	0	0	715	0	0
V/C Ratio(X)	0.41	0.00	0.00	0.62	0.00	0.00	0.58	0.00	0.00	0.55	0.00	0.00
Avail Cap(c_a), veh/h	1300	0	0	1287	0	0	1655	0	0	1465	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	8.0	0.0	0.0	8.9	0.0	0.0	8.6	0.0	0.0	8.5	0.0	0.0
Incr Delay (d2), s/veh	0.4	0.0	0.0	0.9	0.0	0.0	0.7	0.0	0.0	0.7	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	0.0	0.0	1.5	0.0	0.0	1.8	0.0	0.0	1.5	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	8.4	0.0	0.0	9.8	0.0	0.0	9.3	0.0	0.0	9.1	0.0	0.0
LnGrp LOS	A			A			A			A		
Approach Vol, veh/h		305			459			447			390	
Approach Delay, s/veh		8.4			9.8			9.3			9.1	
Approach LOS		A			A			A			A	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	16.1	15.9	16.1	15.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	29.5	21.5	29.5	21.5
Max Q Clear Time (g_c+I1), s	8.6	6.3	8.4	9.2
Green Ext Time (p_c), s	3.0	1.5	2.8	2.2

Intersection Summary	
HCM 7th Control Delay, s/veh	9.2
HCM 7th LOS	A

Intersection	
Intersection Delay, s/veh	17
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	270	29	15	490	2	79	30	15	7	24	0
Future Vol, veh/h	0	270	29	15	490	2	79	30	15	7	24	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	3	3	3	1	1	1	0	0	0	0	0	0
Mvmt Flow	0	293	32	16	533	2	86	33	16	8	26	0
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	12.6	21.5	11.1	9.9
HCM LOS	B	C	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	64%	0%	3%	23%
Vol Thru, %	24%	90%	97%	77%
Vol Right, %	12%	10%	0%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	124	299	507	31
LT Vol	79	0	15	7
Through Vol	30	270	490	24
RT Vol	15	29	2	0
Lane Flow Rate	135	325	551	34
Geometry Grp	1	1	1	1
Degree of Util (X)	0.231	0.465	0.755	0.06
Departure Headway (Hd)	6.158	5.152	4.934	6.428
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	582	699	738	555
Service Time	4.207	3.188	2.934	4.488
HCM Lane V/C Ratio	0.232	0.465	0.747	0.061
HCM Control Delay, s/veh	11.1	12.6	21.5	9.9
HCM Lane LOS	B	B	C	A
HCM 95th-tile Q	0.9	2.5	7	0.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	9	184	149	25	280	258	121	275	19	188	282	7
Future Volume (veh/h)	9	184	149	25	280	258	121	275	19	188	282	7
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1885	1885	1885	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	9	190	154	26	289	266	125	284	20	194	291	7
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	1	1	1	3	3	3	3	3	3
Cap, veh/h	77	367	288	87	341	300	160	373	26	244	478	11
Arrive On Green	0.38	0.38	0.38	0.38	0.38	0.38	0.09	0.22	0.22	0.14	0.26	0.26
Sat Flow, veh/h	14	962	755	36	894	785	1767	1713	121	1767	1804	43
Grp Volume(v), veh/h	353	0	0	581	0	0	125	0	304	194	0	298
Grp Sat Flow(s),veh/h/ln	1730	0	0	1715	0	0	1767	0	1834	1767	0	1848
Q Serve(g_s), s	0.0	0.0	0.0	5.8	0.0	0.0	3.6	0.0	8.0	5.5	0.0	7.3
Cycle Q Clear(g_c), s	8.2	0.0	0.0	16.2	0.0	0.0	3.6	0.0	8.0	5.5	0.0	7.3
Prop In Lane	0.03		0.44	0.04		0.46	1.00		0.07	1.00		0.02
Lane Grp Cap(c), veh/h	732	0	0	728	0	0	160	0	399	244	0	489
V/C Ratio(X)	0.48	0.00	0.00	0.80	0.00	0.00	0.78	0.00	0.76	0.80	0.00	0.61
Avail Cap(c_a), veh/h	826	0	0	822	0	0	258	0	696	327	0	773
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	12.4	0.0	0.0	14.8	0.0	0.0	22.9	0.0	18.9	21.5	0.0	16.6
Incr Delay (d2), s/veh	0.5	0.0	0.0	5.0	0.0	0.0	7.9	0.0	3.0	9.5	0.0	1.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.0	0.0	5.6	0.0	0.0	1.7	0.0	3.4	2.7	0.0	2.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	12.9	0.0	0.0	19.8	0.0	0.0	30.8	0.0	21.9	30.9	0.0	17.8
LnGrp LOS	B			B			C		C	C		B
Approach Vol, veh/h		353			581			429			492	
Approach Delay, s/veh		12.9			19.8			24.5			23.0	
Approach LOS		B			B			C			C	

Timer - Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	11.6	15.7		24.1	9.2	18.1		24.1
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5
Max Green Setting (Gmax), s	9.5	19.5		22.5	7.5	21.5		22.5
Max Q Clear Time (g_c+I1), s	7.5	10.0		10.2	5.6	9.3		18.2
Green Ext Time (p_c), s	0.1	1.2		1.6	0.1	1.3		1.4

Intersection Summary	
HCM 7th Control Delay, s/veh	20.4
HCM 7th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	34	69	67	8	75	2	61	427	14	2	564	34
Future Volume (veh/h)	34	69	67	8	75	2	61	427	14	2	564	34
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	37	75	73	9	82	2	66	464	15	2	613	37
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	3
Cap, veh/h	145	128	108	112	281	6	115	886	29	5	751	45
Arrive On Green	0.16	0.16	0.16	0.16	0.16	0.16	0.06	0.50	0.50	0.00	0.43	0.43
Sat Flow, veh/h	224	780	654	85	1707	39	1767	1787	58	1767	1732	105
Grp Volume(v), veh/h	185	0	0	93	0	0	66	0	479	2	0	650
Grp Sat Flow(s),veh/h/ln	1658	0	0	1831	0	0	1767	0	1845	1767	0	1837
Q Serve(g_s), s	2.1	0.0	0.0	0.0	0.0	0.0	1.5	0.0	7.1	0.0	0.0	12.4
Cycle Q Clear(g_c), s	4.1	0.0	0.0	1.8	0.0	0.0	1.5	0.0	7.1	0.0	0.0	12.4
Prop In Lane	0.20		0.39	0.10		0.02	1.00		0.03	1.00		0.06
Lane Grp Cap(c), veh/h	380	0	0	400	0	0	115	0	915	5	0	796
V/C Ratio(X)	0.49	0.00	0.00	0.23	0.00	0.00	0.58	0.00	0.52	0.41	0.00	0.82
Avail Cap(c_a), veh/h	846	0	0	910	0	0	225	0	1078	221	0	1068
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	15.7	0.0	0.0	14.7	0.0	0.0	18.2	0.0	6.9	19.9	0.0	9.9
Incr Delay (d2), s/veh	1.0	0.0	0.0	0.3	0.0	0.0	4.5	0.0	0.5	47.6	0.0	3.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.0	0.0	0.7	0.0	0.0	0.7	0.0	1.9	0.1	0.0	4.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	16.6	0.0	0.0	15.0	0.0	0.0	22.7	0.0	7.3	67.5	0.0	13.6
LnGrp LOS	B			B			C		A	E		B
Approach Vol, veh/h		185			93			545			652	
Approach Delay, s/veh		16.6			15.0			9.2			13.8	
Approach LOS		B			B			A			B	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	4.6	24.4		11.1	7.1	21.9		11.1				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	5.6	23.4		18.1	5.1	23.3		18.1				
Max Q Clear Time (g_c+I1), s	2.0	9.1		6.1	3.5	14.4		3.8				
Green Ext Time (p_c), s	0.0	2.6		0.8	0.0	2.9		0.3				

Intersection Summary	
HCM 7th Control Delay, s/veh	12.5
HCM 7th LOS	B

Intersection	
Intersection Delay, s/veh	17.3
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	1	422	49	27	379	7	76	39	20	2	39	1
Future Vol, veh/h	1	422	49	27	379	7	76	39	20	2	39	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	2	2	2	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	449	52	29	403	7	81	41	21	2	41	1
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	19.8	17	11.6	10.3
HCM LOS	C	C	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	56%	0%	7%	5%
Vol Thru, %	29%	89%	92%	93%
Vol Right, %	15%	10%	2%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	135	472	413	42
LT Vol	76	1	27	2
Through Vol	39	422	379	39
RT Vol	20	49	7	1
Lane Flow Rate	144	502	439	45
Geometry Grp	1	1	1	1
Degree of Util (X)	0.253	0.712	0.636	0.082
Departure Headway (Hd)	6.345	5.108	5.213	6.617
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	564	708	690	538
Service Time	4.406	3.149	3.256	4.694
HCM Lane V/C Ratio	0.255	0.709	0.636	0.084
HCM Control Delay, s/veh	11.6	19.8	17	10.3
HCM Lane LOS	B	C	C	B
HCM 95th-tile Q	1	6	4.6	0.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	6	257	122	15	287	187	172	351	31	194	223	8
Future Volume (veh/h)	6	257	122	15	287	187	172	351	31	194	223	8
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	6	276	131	16	309	201	185	377	33	209	240	9
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	0	0	0	2	2	2	3	3	3
Cap, veh/h	69	405	189	75	358	226	233	460	40	260	510	19
Arrive On Green	0.34	0.34	0.34	0.34	0.34	0.34	0.13	0.27	0.27	0.15	0.29	0.29
Sat Flow, veh/h	7	1206	564	21	1067	673	1781	1695	148	1767	1777	67
Grp Volume(v), veh/h	413	0	0	526	0	0	185	0	410	209	0	249
Grp Sat Flow(s),veh/h/ln	1777	0	0	1761	0	0	1781	0	1844	1767	0	1844
Q Serve(g_s), s	0.0	0.0	0.0	4.4	0.0	0.0	5.5	0.0	11.4	6.3	0.0	6.1
Cycle Q Clear(g_c), s	11.1	0.0	0.0	15.4	0.0	0.0	5.5	0.0	11.4	6.3	0.0	6.1
Prop In Lane	0.01		0.32	0.03		0.38	1.00		0.08	1.00		0.04
Lane Grp Cap(c), veh/h	663	0	0	659	0	0	233	0	500	260	0	529
V/C Ratio(X)	0.62	0.00	0.00	0.80	0.00	0.00	0.79	0.00	0.82	0.81	0.00	0.47
Avail Cap(c_a), veh/h	730	0	0	726	0	0	315	0	690	339	0	717
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	15.8	0.0	0.0	17.2	0.0	0.0	23.1	0.0	18.7	22.6	0.0	16.1
Incr Delay (d2), s/veh	1.4	0.0	0.0	5.8	0.0	0.0	9.5	0.0	5.6	10.2	0.0	0.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	0.0	0.0	6.0	0.0	0.0	2.8	0.0	5.1	3.1	0.0	2.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	17.2	0.0	0.0	23.0	0.0	0.0	32.6	0.0	24.3	32.9	0.0	16.7
LnGrp LOS	B			C			C		C	C		B
Approach Vol, veh/h		413			526			595			458	
Approach Delay, s/veh		17.2			23.0			26.9			24.1	
Approach LOS		B			C			C			C	

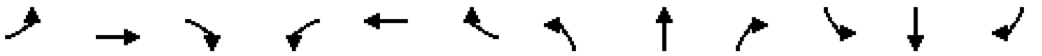
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.5	19.4		22.9	11.7	20.2		22.9				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	10.5	20.5		20.5	9.7	21.3		20.5				
Max Q Clear Time (g_c+I1), s	8.3	13.4		13.1	7.5	8.1		17.4				
Green Ext Time (p_c), s	0.1	1.4		1.4	0.1	1.1		0.9				

Intersection Summary		
HCM 7th Control Delay, s/veh	23.2	
HCM 7th LOS	C	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	38	98	91	15	96	2	88	616	8	1	436	38
Future Volume (veh/h)	38	98	91	15	96	2	88	616	8	1	436	38
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	40	103	96	16	101	2	93	648	9	1	459	40
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.92	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	3	3	3
Cap, veh/h	144	168	137	129	340	6	145	827	11	5	622	54
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20	0.08	0.45	0.45	0.00	0.37	0.37
Sat Flow, veh/h	177	822	671	119	1666	31	1781	1840	26	1767	1683	147
Grp Volume(v), veh/h	239	0	0	119	0	0	93	0	657	1	0	499
Grp Sat Flow(s),veh/h/ln	1670	0	0	1816	0	0	1781	0	1866	1767	0	1829
Q Serve(g_s), s	2.3	0.0	0.0	0.0	0.0	0.0	2.0	0.0	11.7	0.0	0.0	9.2
Cycle Q Clear(g_c), s	5.1	0.0	0.0	2.1	0.0	0.0	2.0	0.0	11.7	0.0	0.0	9.2
Prop In Lane	0.17		0.40	0.13		0.02	1.00		0.01	1.00		0.08
Lane Grp Cap(c), veh/h	448	0	0	475	0	0	145	0	839	5	0	676
V/C Ratio(X)	0.53	0.00	0.00	0.25	0.00	0.00	0.64	0.00	0.78	0.22	0.00	0.74
Avail Cap(c_a), veh/h	878	0	0	931	0	0	228	0	1322	226	0	1296
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	14.4	0.0	0.0	13.2	0.0	0.0	17.4	0.0	9.1	19.5	0.0	10.7
Incr Delay (d2), s/veh	1.0	0.0	0.0	0.3	0.0	0.0	4.7	0.0	1.6	23.0	0.0	1.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	0.0	0.0	0.8	0.0	0.0	0.9	0.0	3.5	0.0	0.0	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	15.4	0.0	0.0	13.5	0.0	0.0	22.1	0.0	10.8	42.4	0.0	12.3
LnGrp LOS	B			B			C		B	D		B
Approach Vol, veh/h		239			119			750			500	
Approach Delay, s/veh		15.4			13.5			12.2			12.3	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	4.6	22.1		12.5	7.7	19.0		12.5				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	5.6	27.7		18.3	5.0	27.7		18.3				
Max Q Clear Time (g_c+I1), s	2.0	13.7		7.1	4.0	11.2		4.1				
Green Ext Time (p_c), s	0.0	3.9		1.0	0.0	3.0		0.5				

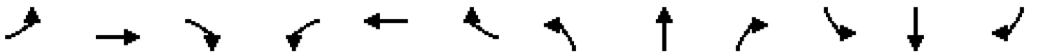
Intersection Summary	
HCM 7th Control Delay, s/veh	12.8
HCM 7th LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	84	223	267	547	293	337	193	784	265	150	913	57
Future Volume (veh/h)	84	223	267	547	293	337	193	784	265	150	913	57
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1870	1870	1870	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	87	230	275	564	302	347	199	808	273	155	941	59
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	2	2	2	2	2	2	3	3	3
Cap, veh/h	123	366	311	615	544	461	223	1592	777	184	1473	457
Arrive On Green	0.07	0.20	0.20	0.18	0.29	0.29	0.13	0.31	0.31	0.10	0.29	0.29
Sat Flow, veh/h	1767	1856	1572	3456	1870	1585	1781	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	87	230	275	564	302	347	199	808	273	155	941	59
Grp Sat Flow(s),veh/h/ln	1767	1856	1572	1728	1870	1585	1781	1702	1585	1767	1689	1572
Q Serve(g_s), s	5.1	12.0	18.1	17.0	14.5	21.1	11.7	13.7	11.3	9.1	17.2	2.9
Cycle Q Clear(g_c), s	5.1	12.0	18.1	17.0	14.5	21.1	11.7	13.7	11.3	9.1	17.2	2.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	123	366	311	615	544	461	223	1592	777	184	1473	457
V/C Ratio(X)	0.71	0.63	0.89	0.92	0.56	0.75	0.89	0.51	0.35	0.84	0.64	0.13
Avail Cap(c_a), veh/h	147	411	348	615	564	478	223	1761	829	231	1776	551
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.3	39.0	41.4	42.8	31.8	34.2	45.7	29.9	16.7	46.7	32.8	27.7
Incr Delay (d2), s/veh	8.4	2.8	21.7	18.3	2.1	8.0	32.0	0.8	0.9	16.4	1.5	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	5.6	8.6	8.6	6.6	8.8	7.1	5.7	4.0	4.8	7.2	1.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	56.7	41.8	63.1	61.1	33.9	42.1	77.7	30.7	17.6	63.1	34.3	28.1
LnGrp LOS	E	D	E	E	C	D	E	C	B	E	C	C
Approach Vol, veh/h		592			1213			1280			1155	
Approach Delay, s/veh		53.9			48.9			35.2			37.9	
Approach LOS		D			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.6	36.6	13.6	37.4	16.4	38.8	23.5	27.5
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	13.3	37.2	8.8	32.0	13.9	36.6	18.9	23.5
Max Q Clear Time (g_c+I1), s	13.7	19.2	7.1	23.1	11.1	15.7	19.0	20.1
Green Ext Time (p_c), s	0.0	11.7	0.0	3.7	0.1	13.2	0.0	0.9

Intersection Summary	
HCM 7th Control Delay, s/veh	42.5
HCM 7th LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	278	126	209	197	200	76	160	861	134	45	1252	449
Future Volume (veh/h)	278	126	209	197	200	76	160	861	134	45	1252	449
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	287	130	215	203	206	78	165	888	138	46	1291	463
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	0	0	0	2	2	2	3	3	3
Cap, veh/h	337	357	302	249	264	223	270	1979	614	101	1908	592
Arrive On Green	0.19	0.19	0.19	0.14	0.14	0.14	0.08	0.39	0.39	0.06	0.38	0.38
Sat Flow, veh/h	1781	1870	1585	1810	1900	1610	3456	5106	1585	1767	5066	1572
Grp Volume(v), veh/h	287	130	215	203	206	78	165	888	138	46	1291	463
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1810	1900	1610	1728	1702	1585	1767	1689	1572
Q Serve(g_s), s	15.8	6.1	12.9	11.0	10.6	4.4	4.7	13.1	5.9	2.6	21.6	26.4
Cycle Q Clear(g_c), s	15.8	6.1	12.9	11.0	10.6	4.4	4.7	13.1	5.9	2.6	21.6	26.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	337	357	302	249	264	223	270	1979	614	101	1908	592
V/C Ratio(X)	0.85	0.36	0.71	0.82	0.78	0.35	0.61	0.45	0.22	0.45	0.68	0.78
Avail Cap(c_a), veh/h	469	443	375	393	362	307	276	1979	614	152	1949	605
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.7	35.7	38.4	42.5	42.2	39.5	45.2	23.0	20.8	46.2	26.4	27.9
Incr Delay (d2), s/veh	16.7	1.7	9.0	16.4	14.0	2.6	2.7	0.5	0.6	1.2	1.6	8.8
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.2	2.9	5.6	6.0	6.0	1.9	2.1	5.2	2.2	1.2	8.7	10.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	56.4	37.4	47.4	58.8	56.1	42.1	47.9	23.5	21.4	47.4	28.0	36.7
LnGrp LOS	E	D	D	E	E	D	D	C	C	D	C	D
Approach Vol, veh/h		632			487			1191			1800	
Approach Delay, s/veh		49.4			55.0			26.7			30.8	
Approach LOS		D			E			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.2	43.9	24.5	19.8	12.1	45.0	19.2	25.0
Change Period (Y+Rc), s	5.3	5.7	5.3	5.7	6.3	5.7	5.3	5.7
Max Green Setting (Gmax), s	8.1	39.0	26.7	19.3	8.7	37.3	22.0	24.0
Max Q Clear Time (g_c+I1), s	6.7	28.4	17.8	12.6	4.6	15.1	13.0	14.9
Green Ext Time (p_c), s	0.0	9.8	1.4	1.4	0.0	13.8	0.9	2.0

Intersection Summary	
HCM 7th Control Delay, s/veh	35.3
HCM 7th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	312	60	45	964	7	70	56	36	36	47	1
Future Volume (veh/h)	0	312	60	45	964	7	70	56	36	36	47	1
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1885	1885	1885	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	0	339	65	49	1048	8	76	61	39	39	51	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	1	1	1	0	0	0	0	0	0
Cap, veh/h	0	1040	199	100	1226	9	183	101	54	172	183	3
Arrive On Green	0.00	0.69	0.69	0.69	0.69	0.69	0.15	0.15	0.15	0.15	0.15	0.15
Sat Flow, veh/h	0	1513	290	45	1783	13	602	686	367	527	1235	20
Grp Volume(v), veh/h	0	0	404	1105	0	0	176	0	0	91	0	0
Grp Sat Flow(s),veh/h/ln	0	0	1803	1842	0	0	1654	0	0	1782	0	0
Q Serve(g_s), s	0.0	0.0	4.9	8.7	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	4.9	25.1	0.0	0.0	5.4	0.0	0.0	2.3	0.0	0.0
Prop In Lane	0.00		0.16	0.04		0.01	0.43		0.22	0.43		0.01
Lane Grp Cap(c), veh/h	0	0	1240	1335	0	0	339	0	0	358	0	0
V/C Ratio(X)	0.00	0.00	0.33	0.83	0.00	0.00	0.52	0.00	0.00	0.25	0.00	0.00
Avail Cap(c_a), veh/h	0	0	1734	1831	0	0	640	0	0	662	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	3.4	6.5	0.0	0.0	22.0	0.0	0.0	20.8	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.2	2.4	0.0	0.0	1.2	0.0	0.0	0.4	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.0	0.8	4.7	0.0	0.0	2.1	0.0	0.0	1.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	0.0	3.6	8.9	0.0	0.0	23.3	0.0	0.0	21.2	0.0	0.0
LnGrp LOS			A	A			C			C		
Approach Vol, veh/h		404			1105			176			91	
Approach Delay, s/veh		3.6			8.9			23.3			21.2	
Approach LOS		A			A			C			C	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	12.6	42.0	12.6	42.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.5	52.5	18.5	52.5
Max Q Clear Time (g_c+I1), s	7.4	6.9	4.3	27.1
Green Ext Time (p_c), s	0.7	2.6	0.3	10.5

Intersection Summary	
HCM 7th Control Delay, s/veh	9.7
HCM 7th LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	16	259	181	63	525	279	187	317	35	250	544	24
Future Volume (veh/h)	16	259	181	63	525	279	187	317	35	250	544	24
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1885	1885	1885	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	16	267	187	65	541	288	193	327	36	258	561	25
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	3	3	3	1	1	1	3	3	3	3	3	3
Cap, veh/h	153	641	543	322	651	552	335	640	542	524	655	29
Arrive On Green	0.35	0.35	0.35	0.35	0.35	0.35	0.10	0.34	0.34	0.12	0.37	0.37
Sat Flow, veh/h	656	1856	1572	944	1885	1598	1767	1856	1572	1767	1763	79
Grp Volume(v), veh/h	16	267	187	65	541	288	193	327	36	258	0	586
Grp Sat Flow(s),veh/h/ln	656	1856	1572	944	1885	1598	1767	1856	1572	1767	0	1841
Q Serve(g_s), s	1.7	8.0	6.4	4.1	19.1	10.4	5.0	10.2	1.1	6.6	0.0	21.2
Cycle Q Clear(g_c), s	20.7	8.0	6.4	12.1	19.1	10.4	5.0	10.2	1.1	6.6	0.0	21.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.04
Lane Grp Cap(c), veh/h	153	641	543	322	651	552	335	640	542	524	0	684
V/C Ratio(X)	0.10	0.42	0.34	0.20	0.83	0.52	0.58	0.51	0.07	0.49	0.00	0.86
Avail Cap(c_a), veh/h	248	909	771	458	924	783	425	920	779	675	0	1025
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	31.3	18.1	17.6	22.7	21.8	18.9	16.0	18.9	15.9	12.9	0.0	21.0
Incr Delay (d2), s/veh	0.3	0.4	0.4	0.3	4.5	0.8	1.6	0.6	0.1	0.7	0.0	4.8
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	3.1	2.1	0.9	8.1	3.5	1.9	4.2	0.4	2.4	0.0	9.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	31.6	18.6	18.0	23.0	26.3	19.7	17.6	19.5	16.0	13.7	0.0	25.8
LnGrp LOS	C	B	B	C	C	B	B	B	B	B		C
Approach Vol, veh/h		470			894			556			844	
Approach Delay, s/veh		18.8			23.9			18.6			22.1	
Approach LOS		B			C			B			C	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	13.4	29.5		29.5	11.5	31.4		29.5				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	15.5	35.9		35.5	10.7	40.3		35.5				
Max Q Clear Time (g_c+I1), s	8.6	12.2		22.7	7.0	23.2		21.1				
Green Ext Time (p_c), s	0.4	2.1		1.8	0.2	3.7		3.9				

Intersection Summary	
HCM 7th Control Delay, s/veh	21.4
HCM 7th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	85	129	121	22	144	4	96	533	18	3	990	140
Future Volume (veh/h)	85	129	121	22	144	4	96	533	18	3	990	140
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	92	140	132	24	157	4	104	579	20	3	1076	152
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	3	3	3	3	3	3
Cap, veh/h	118	172	162	48	281	7	154	1505	52	133	1305	184
Arrive On Green	0.07	0.19	0.19	0.03	0.15	0.15	0.09	0.43	0.43	0.08	0.42	0.42
Sat Flow, veh/h	1781	885	835	1781	1816	46	1767	3477	120	1767	3102	437
Grp Volume(v), veh/h	92	0	272	24	0	161	104	293	306	3	611	617
Grp Sat Flow(s),veh/h/ln	1781	0	1720	1781	0	1862	1767	1763	1834	1767	1763	1777
Q Serve(g_s), s	3.4	0.0	10.1	0.9	0.0	5.3	3.8	7.5	7.5	0.1	20.4	20.5
Cycle Q Clear(g_c), s	3.4	0.0	10.1	0.9	0.0	5.3	3.8	7.5	7.5	0.1	20.4	20.5
Prop In Lane	1.00		0.49	1.00		0.02	1.00		0.07	1.00		0.25
Lane Grp Cap(c), veh/h	118	0	333	48	0	288	154	763	794	133	742	748
V/C Ratio(X)	0.78	0.00	0.82	0.50	0.00	0.56	0.67	0.38	0.38	0.02	0.82	0.83
Avail Cap(c_a), veh/h	148	0	477	137	0	505	173	889	925	133	849	856
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	30.5	0.0	25.6	31.9	0.0	26.0	29.4	12.8	12.8	28.4	17.0	17.1
Incr Delay (d2), s/veh	18.7	0.0	7.2	7.8	0.0	1.7	8.5	0.3	0.3	0.1	5.9	6.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	0.0	4.5	0.5	0.0	2.4	1.9	2.7	2.8	0.0	8.5	8.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	49.3	0.0	32.8	39.7	0.0	27.7	37.9	13.1	13.1	28.5	22.9	23.0
LnGrp LOS	D		C	D		C	D	B	B	C	C	C
Approach Vol, veh/h		364			185			703			1231	
Approach Delay, s/veh		37.0			29.2			16.8			23.0	
Approach LOS		D			C			B			C	

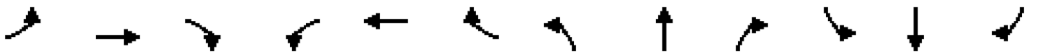
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.5	33.3	6.3	17.4	10.3	32.5	8.9	14.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.0	33.5	5.1	18.4	6.5	32.0	5.5	18.0
Max Q Clear Time (g_c+I1), s	12.1	9.5	2.9	12.1	5.8	22.5	5.4	7.3
Green Ext Time (p_c), s	0.0	3.8	0.0	0.8	0.0	5.5	0.0	0.6

Intersection Summary	
HCM 7th Control Delay, s/veh	23.8
HCM 7th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	150	564	508	106	503	322	260	397	51	297	994	221
Future Volume (veh/h)	150	564	508	106	503	322	260	397	51	297	994	221
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	163	613	552	115	547	350	283	432	55	323	1080	240
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	190	983	596	160	924	724	344	828	105	351	1272	568
Arrive On Green	0.11	0.28	0.28	0.09	0.26	0.26	0.10	0.26	0.26	0.20	0.36	0.36
Sat Flow, veh/h	1767	3526	1572	1767	3526	1572	3428	3148	399	1767	3526	1572
Grp Volume(v), veh/h	163	613	552	115	547	350	283	241	246	323	1080	240
Grp Sat Flow(s),veh/h/ln	1767	1763	1572	1767	1763	1572	1714	1763	1784	1767	1763	1572
Q Serve(g_s), s	10.7	18.0	33.0	7.5	16.0	18.3	9.6	13.8	14.0	21.2	33.4	13.6
Cycle Q Clear(g_c), s	10.7	18.0	33.0	7.5	16.0	18.3	9.6	13.8	14.0	21.2	33.4	13.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.22	1.00		1.00
Lane Grp Cap(c), veh/h	190	983	596	160	924	724	344	463	469	351	1272	568
V/C Ratio(X)	0.86	0.62	0.93	0.72	0.59	0.48	0.82	0.52	0.52	0.92	0.85	0.42
Avail Cap(c_a), veh/h	224	983	596	179	924	724	550	536	543	433	1370	611
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.9	37.3	35.1	52.3	38.1	22.1	52.2	37.2	37.3	46.5	34.8	28.5
Incr Delay (d2), s/veh	21.5	1.5	20.8	9.0	1.3	0.8	2.5	1.0	1.0	20.3	5.2	0.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.7	7.6	17.6	3.6	6.8	6.4	4.1	5.9	6.0	11.2	15.0	5.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	73.4	38.7	56.0	61.4	39.5	23.0	54.7	38.2	38.3	66.8	40.1	29.2
LnGrp LOS	E	D	E	E	D	C	D	D	D	E	D	C
Approach Vol, veh/h		1328			1012			770			1643	
Approach Delay, s/veh		50.2			36.2			44.3			43.7	
Approach LOS		D			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.9	48.7	16.7	37.0	27.5	37.1	14.7	39.0
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	4.0	6.0
Max Green Setting (Gmax), s	11.9	46.0	15.0	30.0	29.0	36.0	12.0	33.0
Max Q Clear Time (g_c+I1), s	11.6	35.4	12.7	20.3	23.2	16.0	9.5	35.0
Green Ext Time (p_c), s	0.3	7.3	0.0	4.7	0.3	2.7	0.0	0.0

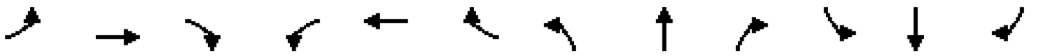
Intersection Summary	
HCM 7th Control Delay, s/veh	44.0
HCM 7th LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	259	237	526	255	259	215	889	670	252	655	42
Future Volume (veh/h)	22	259	237	526	255	259	215	889	670	252	655	42
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	24	282	258	572	277	282	234	966	728	274	712	46
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	0	0	0	1	1	1	0	0	0
Cap, veh/h	67	332	281	558	540	457	398	1683	777	243	1244	386
Arrive On Green	0.04	0.18	0.18	0.16	0.28	0.28	0.22	0.33	0.33	0.13	0.24	0.24
Sat Flow, veh/h	1781	1870	1585	3510	1900	1610	1795	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	24	282	258	572	277	282	234	966	728	274	712	46
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1755	1900	1610	1795	1716	1598	1810	1729	1610
Q Serve(g_s), s	1.4	16.0	10.5	17.4	13.4	11.0	12.8	17.0	21.7	14.7	13.2	2.0
Cycle Q Clear(g_c), s	1.4	16.0	10.5	17.4	13.4	11.0	12.8	17.0	21.7	14.7	13.2	2.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	67	332	281	558	540	457	398	1683	777	243	1244	386
V/C Ratio(X)	0.36	0.85	0.92	1.02	0.51	0.62	0.59	0.57	0.94	1.13	0.57	0.12
Avail Cap(c_a), veh/h	130	402	340	558	544	461	398	1755	799	243	1863	578
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.3	43.6	15.9	46.0	32.8	14.9	38.1	30.5	9.0	47.4	36.6	21.2
Incr Delay (d2), s/veh	1.2	14.1	26.5	44.5	1.7	3.7	1.6	1.1	19.5	96.2	1.4	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	8.5	5.7	10.8	6.2	4.2	5.8	7.1	9.4	13.1	5.7	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	52.5	57.7	42.4	90.5	34.5	18.6	39.7	31.5	28.5	143.5	38.0	21.6
LnGrp LOS	D	E	D	F	C	B	D	C	C	F	D	C
Approach Vol, veh/h		564			1131			1928			1032	
Approach Delay, s/veh		50.5			58.8			31.4			65.3	
Approach LOS		D			E			C			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	29.5	31.9	10.3	37.6	20.0	41.5	22.0	25.9
Change Period (Y+Rc), s	5.3	5.7	6.2	6.5	5.3	5.7	4.6	6.5
Max Green Setting (Gmax), s	12.7	39.3	8.0	31.3	14.7	37.3	17.4	23.5
Max Q Clear Time (g_c+I1), s	14.8	15.2	3.4	15.4	16.7	23.7	19.4	18.0
Green Ext Time (p_c), s	0.0	11.0	0.0	4.6	0.0	12.1	0.0	1.4

Intersection Summary	
HCM 7th Control Delay, s/veh	47.9
HCM 7th LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	449	255	333	246	210	107	273	1373	280	120	908	401
Future Volume (veh/h)	449	255	333	246	210	107	273	1373	280	120	908	401
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1885	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	473	268	351	259	221	113	287	1445	295	126	956	422
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	1	1	1	0	0	0
Cap, veh/h	498	467	395	293	251	213	345	1582	491	153	1564	486
Arrive On Green	0.28	0.25	0.25	0.16	0.13	0.13	0.10	0.31	0.31	0.08	0.30	0.30
Sat Flow, veh/h	1810	1900	1610	1810	1900	1610	3483	5147	1598	1810	5187	1610
Grp Volume(v), veh/h	473	268	351	259	221	113	287	1445	295	126	956	422
Grp Sat Flow(s),veh/h/ln	1810	1900	1610	1810	1900	1610	1742	1716	1598	1810	1729	1610
Q Serve(g_s), s	29.4	14.2	24.1	16.0	13.1	7.5	9.3	31.0	18.0	7.8	18.1	28.4
Cycle Q Clear(g_c), s	29.4	14.2	24.1	16.0	13.1	7.5	9.3	31.0	18.0	7.8	18.1	28.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	498	467	395	293	251	213	345	1582	491	153	1564	486
V/C Ratio(X)	0.95	0.57	0.89	0.88	0.88	0.53	0.83	0.91	0.60	0.82	0.61	0.87
Avail Cap(c_a), veh/h	501	467	395	330	254	215	377	1586	492	153	1564	486
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.7	38.0	41.7	47.0	48.8	46.4	50.7	38.2	33.7	51.6	34.3	37.9
Incr Delay (d2), s/veh	28.8	3.4	22.6	25.9	30.1	5.7	12.5	9.3	4.3	27.6	1.4	17.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	16.6	6.9	11.8	9.3	8.3	3.3	4.6	14.2	7.3	4.7	7.8	13.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	69.6	41.3	64.3	72.9	78.9	52.1	63.1	47.5	38.0	79.2	35.7	55.5
LnGrp LOS	E	D	E	E	E	D	E	D	D	E	D	E
Approach Vol, veh/h		1092			593			2027			1504	
Approach Delay, s/veh		60.9			71.2			48.3			44.9	
Approach LOS		E			E			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.6	40.2	36.8	20.9	16.0	40.9	23.8	33.8
Change Period (Y+Rc), s	5.3	5.7	5.3	5.7	6.3	5.7	5.3	5.7
Max Green Setting (Gmax), s	12.4	33.6	31.7	15.3	9.7	35.3	20.9	26.1
Max Q Clear Time (g_c+I1), s	11.3	30.4	31.4	15.1	9.8	33.0	18.0	26.1
Green Ext Time (p_c), s	0.1	2.9	0.1	0.1	0.0	2.2	0.5	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	52.6
HCM 7th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	783	85	59	622	36	101	74	59	10	75	1
Future Volume (veh/h)	1	783	85	59	622	36	101	74	59	10	75	1
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	1	833	90	63	662	38	107	79	63	11	80	1
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	0	0	0	0	0	0	0	0	0
Cap, veh/h	80	986	106	135	943	52	233	128	84	108	361	4
Arrive On Green	0.59	0.59	0.59	0.59	0.59	0.59	0.21	0.21	0.21	0.21	0.21	0.21
Sat Flow, veh/h	0	1659	179	82	1585	87	580	619	406	94	1748	20
Grp Volume(v), veh/h	924	0	0	763	0	0	249	0	0	92	0	0
Grp Sat Flow(s),veh/h/ln	1838	0	0	1755	0	0	1605	0	0	1863	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	18.5	0.0	0.0	12.8	0.0	0.0	6.5	0.0	0.0	1.8	0.0	0.0
Prop In Lane	0.00		0.10	0.08		0.05	0.43		0.25	0.12		0.01
Lane Grp Cap(c), veh/h	1172	0	0	1130	0	0	445	0	0	474	0	0
V/C Ratio(X)	0.79	0.00	0.00	0.68	0.00	0.00	0.56	0.00	0.00	0.19	0.00	0.00
Avail Cap(c_a), veh/h	1601	0	0	1506	0	0	758	0	0	835	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	7.5	0.0	0.0	6.3	0.0	0.0	16.7	0.0	0.0	15.0	0.0	0.0
Incr Delay (d2), s/veh	1.9	0.0	0.0	0.7	0.0	0.0	1.1	0.0	0.0	0.2	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.9	0.0	0.0	2.5	0.0	0.0	2.2	0.0	0.0	0.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	9.4	0.0	0.0	7.0	0.0	0.0	17.8	0.0	0.0	15.2	0.0	0.0
LnGrp LOS	A			A			B			B		
Approach Vol, veh/h		924			763			249			92	
Approach Delay, s/veh		9.4			7.0			17.8			15.2	
Approach LOS		A			A			B			B	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	13.9	31.4	13.9	31.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.5	37.5	18.5	37.5
Max Q Clear Time (g_c+I1), s	8.5	20.5	3.8	14.8
Green Ext Time (p_c), s	1.0	6.4	0.3	6.0

Intersection Summary	
HCM 7th Control Delay, s/veh	9.8
HCM 7th LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	17	497	180	35	505	223	260	628	64	226	310	15
Future Volume (veh/h)	17	497	180	35	505	223	260	628	64	226	310	15
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	18	534	194	38	543	240	280	675	69	243	333	16
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	0	0	0	2	2	2	3	3	3
Cap, veh/h	114	631	535	117	641	543	580	727	616	272	382	18
Arrive On Green	0.34	0.34	0.34	0.34	0.34	0.34	0.33	0.39	0.39	0.15	0.22	0.22
Sat Flow, veh/h	691	1870	1585	738	1900	1610	1781	1870	1585	1767	1756	84
Grp Volume(v), veh/h	18	534	194	38	543	240	280	675	69	243	0	349
Grp Sat Flow(s),veh/h/ln	691	1870	1585	738	1900	1610	1781	1870	1585	1767	0	1840
Q Serve(g_s), s	2.8	29.8	10.4	5.7	29.9	13.1	14.2	38.9	3.1	15.2	0.0	20.6
Cycle Q Clear(g_c), s	32.7	29.8	10.4	35.5	29.9	13.1	14.2	38.9	3.1	15.2	0.0	20.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.05
Lane Grp Cap(c), veh/h	114	631	535	117	641	543	580	727	616	272	0	400
V/C Ratio(X)	0.16	0.85	0.36	0.32	0.85	0.44	0.48	0.93	0.11	0.89	0.00	0.87
Avail Cap(c_a), veh/h	117	640	542	121	650	551	580	806	683	306	0	629
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	49.8	34.6	28.2	51.1	34.6	29.1	30.4	32.9	22.0	46.7	0.0	42.5
Incr Delay (d2), s/veh	0.6	10.2	0.4	1.6	10.1	0.6	0.6	16.0	0.1	24.6	0.0	8.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	14.8	3.9	1.1	14.9	4.9	6.2	20.4	1.2	8.5	0.0	10.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	50.4	44.8	28.6	52.6	44.7	29.6	31.0	48.9	22.1	71.4	0.0	50.6
LnGrp LOS	D	D	C	D	D	C	C	D	C	E		D
Approach Vol, veh/h		746			821			1024			592	
Approach Delay, s/veh		40.7			40.7			42.2			59.1	
Approach LOS		D			D			D			E	

Timer - Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	21.8	48.3		42.5	41.1	29.0		42.5
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5
Max Green Setting (Gmax), s	19.5	48.5		38.5	29.5	38.5		38.5
Max Q Clear Time (g_c+I1), s	17.2	40.9		34.7	16.2	22.6		37.5
Green Ext Time (p_c), s	0.2	2.9		1.5	0.7	1.9		0.5

Intersection Summary	
HCM 7th Control Delay, s/veh	44.6
HCM 7th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	129	179	149	23	177	5	161	1100	18	4	616	111
Future Volume (veh/h)	129	179	149	23	177	5	161	1100	18	4	616	111
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	136	188	157	24	186	5	169	1158	19	4	648	117
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	3	3	3
Cap, veh/h	174	231	193	49	317	9	215	1491	24	10	899	162
Arrive On Green	0.10	0.24	0.24	0.03	0.17	0.17	0.12	0.42	0.42	0.01	0.30	0.30
Sat Flow, veh/h	1781	942	787	1781	1813	49	1781	3578	59	1767	2984	538
Grp Volume(v), veh/h	136	0	345	24	0	191	169	575	602	4	382	383
Grp Sat Flow(s),veh/h/ln	1781	0	1729	1781	0	1862	1781	1777	1860	1767	1763	1759
Q Serve(g_s), s	4.4	0.0	11.1	0.8	0.0	5.6	5.4	16.4	16.5	0.1	11.4	11.4
Cycle Q Clear(g_c), s	4.4	0.0	11.1	0.8	0.0	5.6	5.4	16.4	16.5	0.1	11.4	11.4
Prop In Lane	1.00		0.46	1.00		0.03	1.00		0.03	1.00		0.31
Lane Grp Cap(c), veh/h	174	0	423	49	0	325	215	740	775	10	531	530
V/C Ratio(X)	0.78	0.00	0.81	0.49	0.00	0.59	0.79	0.78	0.78	0.42	0.72	0.72
Avail Cap(c_a), veh/h	257	0	628	154	0	569	348	920	962	150	718	716
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.0	0.0	21.0	28.2	0.0	22.4	25.2	14.8	14.8	29.2	18.4	18.4
Incr Delay (d2), s/veh	8.9	0.0	5.2	7.3	0.0	1.7	6.2	3.4	3.2	27.0	2.3	2.3
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	0.0	4.7	0.4	0.0	2.4	2.5	6.3	6.6	0.1	4.5	4.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	34.8	0.0	26.2	35.6	0.0	24.1	31.4	18.2	18.1	56.2	20.7	20.7
LnGrp LOS	C		C	D		C	C	B	B	E	C	C
Approach Vol, veh/h		481			215			1346			769	
Approach Delay, s/veh		28.6			25.3			19.8			20.9	
Approach LOS		C			C			B			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	4.8	29.1	6.1	18.9	11.6	22.3	10.3	14.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.6	30.5	5.1	21.4	11.5	24.0	8.5	18.0
Max Q Clear Time (g_c+I1), s	2.1	18.5	2.8	13.1	7.4	13.4	6.4	7.6
Green Ext Time (p_c), s	0.0	6.1	0.0	1.3	0.2	3.6	0.1	0.7

Intersection Summary	
HCM 7th Control Delay, s/veh	22.0
HCM 7th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	322	511	441	48	383	329	473	1097	90	199	692	230
Future Volume (veh/h)	322	511	441	48	383	329	473	1097	90	199	692	230
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1870	1870	1870	1856	1856	1856
Adj Flow Rate, veh/h	339	538	464	51	403	346	498	1155	95	209	728	242
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	2	2	2	3	3	3
Cap, veh/h	348	797	709	215	593	466	758	1167	96	222	906	404
Arrive On Green	0.19	0.22	0.22	0.12	0.16	0.16	0.22	0.35	0.35	0.13	0.26	0.26
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	3456	3325	273	1767	3526	1572
Grp Volume(v), veh/h	339	538	464	51	403	346	498	617	633	209	728	242
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1728	1777	1821	1767	1763	1572
Q Serve(g_s), s	22.3	16.3	0.9	3.1	12.6	7.4	15.7	41.3	41.4	14.0	23.1	10.2
Cycle Q Clear(g_c), s	22.3	16.3	0.9	3.1	12.6	7.4	15.7	41.3	41.4	14.0	23.1	10.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.15	1.00		1.00
Lane Grp Cap(c), veh/h	348	797	709	215	593	466	758	624	639	222	906	404
V/C Ratio(X)	0.97	0.68	0.65	0.24	0.68	0.74	0.66	0.99	0.99	0.94	0.80	0.60
Avail Cap(c_a), veh/h	348	1267	918	215	905	606	758	624	639	222	1061	473
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.0	42.7	26.3	47.8	47.0	16.1	42.6	38.6	38.6	51.9	41.6	15.4
Incr Delay (d2), s/veh	41.2	1.5	1.6	0.2	2.3	4.8	1.7	33.1	33.2	44.3	4.4	2.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	18.6	7.2	10.0	1.3	5.6	4.8	6.7	22.7	23.4	8.9	10.6	3.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	89.2	44.2	28.0	48.0	49.3	20.9	44.3	71.7	71.8	96.2	46.0	17.6
LnGrp LOS	F	D	C	D	D	C	D	E	E	F	D	B
Approach Vol, veh/h		1341			800			1748			1179	
Approach Delay, s/veh		50.0			36.9			63.9			49.1	
Approach LOS		D			D			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	30.2	36.8	27.0	25.7	19.0	48.0	20.2	32.4
Change Period (Y+Rc), s	4.0	6.0	4.0	6.0	4.0	6.0	6.0	* 6
Max Green Setting (Gmax), s	21.6	36.0	23.0	30.0	15.0	42.0	11.0	* 42
Max Q Clear Time (g_c+I1), s	17.7	25.1	24.3	14.6	16.0	43.4	5.1	18.3
Green Ext Time (p_c), s	0.4	5.6	0.0	5.1	0.0	0.0	0.0	8.1

Intersection Summary	
HCM 7th Control Delay, s/veh	52.5
HCM 7th LOS	D

Notes

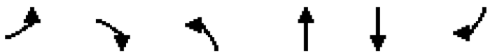
* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

APPENDIX F

QUEUING ANALYSIS WORKSHEETS

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	82	134	188	93	289	106	714	53	70	630	56
v/c Ratio	0.36	0.28	0.35	0.37	0.62	0.43	0.48	0.09	0.32	0.45	0.10
Control Delay (s/veh)	42.5	30.1	6.9	41.2	32.6	42.8	26.7	0.3	42.3	27.6	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	42.5	30.1	6.9	41.2	32.6	42.8	26.7	0.3	42.3	27.6	0.4
Queue Length 50th (ft)	41	57	0	46	117	53	114	0	35	102	0
Queue Length 95th (ft)	96	124	54	103	235	115	177	0	85	163	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	348	625	655	393	609	375	2860	952	371	2833	944
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.24	0.21	0.29	0.24	0.47	0.28	0.25	0.06	0.19	0.22	0.06

Intersection Summary



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	177	172	91	720	822	122
v/c Ratio	0.42	0.34	0.18	0.25	0.43	0.18
Control Delay (s/veh)	24.3	6.0	27.0	6.6	15.3	4.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	24.3	6.0	27.0	6.6	15.3	4.2
Queue Length 50th (ft)	59	0	16	39	82	0
Queue Length 95th (ft)	115	42	39	69	128	30
Internal Link Dist (ft)	1383			1272	2582	
Turn Bay Length (ft)	230	230	235			130
Base Capacity (vph)	796	807	857	3247	2689	894
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.22	0.21	0.11	0.22	0.31	0.14

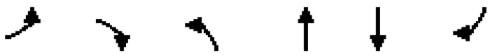
Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	37	346	139	15	288	161	130	176	20	132	240	37
v/c Ratio	0.13	0.29	0.23	0.05	0.59	0.33	0.41	0.42	0.05	0.42	0.57	0.09
Control Delay (s/veh)	37.5	20.3	10.0	37.9	32.1	14.7	38.1	31.2	0.2	38.0	34.2	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	37.5	20.3	10.0	37.9	32.1	14.7	38.1	31.2	0.2	38.0	34.2	0.4
Queue Length 50th (ft)	16	53	13	7	125	27	60	76	0	62	107	0
Queue Length 95th (ft)	55	136	71	29	247	88	139	162	0	140	217	0
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	230		45	220		60	230			260		15
Base Capacity (vph)	554	1834	865	554	944	849	543	926	833	538	917	825
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.07	0.19	0.16	0.03	0.31	0.19	0.24	0.19	0.02	0.25	0.26	0.04

Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	24	127	141	109	308	138	850	140	120	651	47
v/c Ratio	0.13	0.38	0.35	0.48	0.62	0.57	0.52	0.23	0.51	0.40	0.08
Control Delay (s/veh)	41.9	36.1	9.0	44.1	31.6	46.0	25.2	5.6	44.8	24.2	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	41.9	36.1	9.0	44.1	31.6	46.0	25.2	5.6	44.8	24.2	0.3
Queue Length 50th (ft)	11	57	0	50	105	64	120	0	55	89	0
Queue Length 95th (ft)	39	124	45	114	247	140	195	36	123	147	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	313	562	576	357	566	337	2593	877	341	2619	885
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.23	0.24	0.31	0.54	0.41	0.33	0.16	0.35	0.25	0.05

Intersection Summary



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	143	203	209	946	734	107
v/c Ratio	0.39	0.41	0.41	0.31	0.42	0.17
Control Delay (s/veh)	24.8	6.7	27.5	6.5	16.3	4.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	24.8	6.7	27.5	6.5	16.3	4.6
Queue Length 50th (ft)	45	0	36	52	70	0
Queue Length 95th (ft)	98	47	72	88	119	30
Internal Link Dist (ft)	1383			1272	2582	
Turn Bay Length (ft)	230	230	235			130
Base Capacity (vph)	721	765	789	3050	2475	825
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.20	0.27	0.26	0.31	0.30	0.13

Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	46	311	117	6	253	129	136	248	25	72	198	38
v/c Ratio	0.15	0.27	0.20	0.02	0.54	0.28	0.42	0.45	0.05	0.24	0.49	0.09
Control Delay (s/veh)	34.4	19.6	8.5	34.3	30.5	11.9	35.4	28.3	0.2	34.9	31.8	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	34.4	19.6	8.5	34.3	30.5	11.9	35.4	28.3	0.2	34.9	31.8	0.4
Queue Length 50th (ft)	19	45	7	2	105	14	59	105	0	30	82	0
Queue Length 95th (ft)	60	117	53	15	206	62	132	197	0	83	170	0
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	230		45	220		60	230			260		15
Base Capacity (vph)	574	1876	883	574	978	876	563	959	860	557	950	852
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.17	0.13	0.01	0.26	0.15	0.24	0.26	0.03	0.13	0.21	0.04

Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	84	159	228	160	366	154	752	100	91	703	57
v/c Ratio	0.44	0.41	0.45	0.65	0.75	0.64	0.46	0.16	0.46	0.54	0.11
Control Delay (s/veh)	48.0	35.3	7.7	51.5	40.5	51.8	27.5	2.5	48.3	31.1	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	48.0	35.3	7.7	51.5	40.5	51.8	27.5	2.5	48.3	31.1	0.4
Queue Length 50th (ft)	47	78	0	89	176	86	132	0	51	130	0
Queue Length 95th (ft)	100	152	61	169	#373	165	193	17	106	183	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	281	504	594	317	500	302	2324	800	299	2302	794
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.30	0.32	0.38	0.50	0.73	0.51	0.32	0.13	0.30	0.31	0.07

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	207	72	197	107	98	32	125	782	81	24	916	188
v/c Ratio	0.55	0.19	0.41	0.38	0.35	0.09	0.37	0.35	0.11	0.14	0.57	0.31
Control Delay (s/veh)	39.6	33.8	8.1	42.0	42.1	0.5	45.8	20.4	1.6	46.2	28.0	7.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	39.6	33.8	8.1	42.0	42.1	0.5	45.8	20.4	1.6	46.2	28.0	7.9
Queue Length 50th (ft)	104	34	0	54	50	0	34	97	0	13	158	11
Queue Length 95th (ft)	207	83	59	125	117	0	77	199	11	44	243	65
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	230		230	100		100	235		145	250		130
Base Capacity (vph)	568	542	600	477	441	471	359	2403	814	168	2259	792
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.36	0.13	0.33	0.22	0.22	0.07	0.35	0.33	0.10	0.14	0.41	0.24

Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	112	436	288	47	368	227	217	335	39	203	589	155
v/c Ratio	0.56	0.42	0.51	0.27	0.80	0.50	0.80	0.59	0.07	0.77	1.05	0.29
Control Delay (s/veh)	60.6	34.5	20.7	56.0	54.8	25.5	69.4	40.7	0.3	67.7	93.1	16.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	60.6	34.5	20.7	56.0	54.8	25.5	69.4	40.7	0.3	67.7	93.1	16.5
Queue Length 50th (ft)	81	143	91	33	254	83	156	213	0	146	~496	35
Queue Length 95th (ft)	148	193	179	77	392	170	#282	353	0	#249	#807	99
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	235		50	220		60	230			260		15
Base Capacity (vph)	328	1117	595	328	559	539	328	568	547	328	559	539
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.34	0.39	0.48	0.14	0.66	0.42	0.66	0.59	0.07	0.62	1.05	0.29

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	23	158	196	193	354	189	854	221	145	657	43
v/c Ratio	0.14	0.54	0.48	0.71	0.63	0.71	0.54	0.36	0.62	0.44	0.08
Control Delay (s/veh)	44.7	43.4	9.7	53.3	32.6	54.0	27.8	8.9	51.0	27.4	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	44.7	43.4	9.7	53.3	32.6	54.0	27.8	8.9	51.0	27.4	0.3
Queue Length 50th (ft)	12	82	0	100	134	99	146	18	77	113	0
Queue Length 95th (ft)	41	162	60	#229	#343	#233	213	79	160	161	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	282	506	573	321	568	304	2336	822	307	2360	812
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.31	0.34	0.60	0.62	0.62	0.37	0.27	0.47	0.28	0.05

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	211	131	257	153	121	58	251	1047	160	59	800	180
v/c Ratio	0.82	0.40	0.55	0.89	0.37	0.14	0.76	0.54	0.23	0.35	0.52	0.30
Control Delay (s/veh)	62.0	23.8	9.9	78.4	23.3	0.7	43.8	15.9	3.5	30.6	17.2	4.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	62.0	23.8	9.9	78.4	23.3	0.7	43.8	15.9	3.5	30.6	17.2	4.6
Queue Length 50th (ft)	~91	39	9	51	36	0	42	103	0	19	74	0
Queue Length 95th (ft)	#219	80	60	#159	75	0	#105	161	30	52	119	37
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	230		230	100		100	235		145	250		130
Base Capacity (vph)	256	650	700	171	650	670	329	1925	711	171	1775	671
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.82	0.20	0.37	0.89	0.19	0.09	0.76	0.54	0.23	0.35	0.45	0.27

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	199	407	273	33	336	216	296	644	55	146	480	160
v/c Ratio	0.78	0.34	0.44	0.20	0.79	0.50	0.94	1.02	0.09	0.67	0.91	0.31
Control Delay (s/veh)	71.8	31.9	17.2	56.8	57.6	26.7	88.2	81.0	2.0	65.9	64.4	18.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	71.8	31.9	17.2	56.8	57.6	26.7	88.2	81.0	2.0	65.9	64.4	18.0
Queue Length 50th (ft)	150	134	79	24	245	82	230	~530	0	110	361	40
Queue Length 95th (ft)	246	179	159	61	364	163	#452	#936	9	186	#633	106
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	235		50	220		60	230			260		15
Base Capacity (vph)	320	1192	629	320	546	529	314	632	598	311	530	516
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.62	0.34	0.43	0.10	0.62	0.41	0.94	1.02	0.09	0.47	0.91	0.31

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	84	160	228	220	378	154	752	121	93	703	57
v/c Ratio	0.44	0.45	0.47	0.75	0.76	0.65	0.47	0.20	0.48	0.54	0.11
Control Delay (s/veh)	48.6	37.6	8.2	55.5	41.0	52.8	27.8	4.3	48.9	31.3	0.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	48.6	37.6	8.2	55.5	41.0	52.8	27.8	4.3	48.9	31.3	0.5
Queue Length 50th (ft)	47	82	0	123	185	86	133	0	52	130	0
Queue Length 95th (ft)	101	155	62	#275	#399	167	194	31	109	183	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	274	493	586	310	498	295	2272	786	292	2251	779
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.31	0.32	0.39	0.71	0.76	0.52	0.33	0.15	0.32	0.31	0.07

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	214	72	197	107	98	32	125	796	81	24	957	207
v/c Ratio	0.57	0.19	0.41	0.39	0.36	0.09	0.38	0.35	0.10	0.15	0.59	0.33
Control Delay (s/veh)	40.5	34.3	8.1	42.9	43.0	0.5	46.9	20.4	1.5	47.1	28.2	8.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	40.5	34.3	8.1	42.9	43.0	0.5	46.9	20.4	1.5	47.1	28.2	8.4
Queue Length 50th (ft)	111	35	0	56	52	0	35	101	0	13	169	15
Queue Length 95th (ft)	214	83	59	125	117	0	77	202	11	44	256	74
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	230		230	100		100	235		145	250		130
Base Capacity (vph)	557	532	592	468	432	465	352	2380	808	165	2216	784
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.38	0.14	0.33	0.23	0.23	0.07	0.36	0.33	0.10	0.15	0.43	0.26

Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	112	436	288	47	368	239	217	346	39	236	620	155
v/c Ratio	0.56	0.42	0.51	0.27	0.80	0.52	0.80	0.64	0.07	0.83	1.11	0.29
Control Delay (s/veh)	60.6	34.5	20.7	56.0	54.8	26.9	69.4	43.2	0.3	70.5	110.2	16.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	60.6	34.5	20.7	56.0	54.8	26.9	69.4	43.2	0.3	70.5	110.2	16.5
Queue Length 50th (ft)	81	143	91	33	254	91	156	229	0	169	~544	35
Queue Length 95th (ft)	148	193	179	77	392	184	#282	366	0	#321	#863	99
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	235		50	220		60	230			260		15
Base Capacity (vph)	328	1117	595	328	559	539	328	559	539	328	559	539
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.34	0.39	0.48	0.14	0.66	0.44	0.66	0.62	0.07	0.72	1.11	0.29

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	23	163	196	236	363	189	854	292	153	657	43
v/c Ratio	0.15	0.57	0.48	0.77	0.62	0.73	0.55	0.45	0.66	0.44	0.08
Control Delay (s/veh)	45.7	45.2	9.7	56.8	32.4	57.0	28.8	9.2	54.0	28.1	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	45.7	45.2	9.7	56.8	32.4	57.0	28.8	9.2	54.0	28.1	0.3
Queue Length 50th (ft)	12	87	0	129	141	101	150	25	83	114	0
Queue Length 95th (ft)	42	168	60	#309	#358	#239	215	98	170	162	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	270	484	556	307	590	290	2233	826	293	2255	782
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.09	0.34	0.35	0.77	0.62	0.65	0.38	0.35	0.52	0.29	0.05

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	234	131	257	153	121	58	251	1094	160	59	827	194
v/c Ratio	0.92	0.40	0.56	0.89	0.37	0.14	0.77	0.57	0.22	0.35	0.54	0.32
Control Delay (s/veh)	76.6	23.8	10.1	78.9	23.3	0.7	43.9	16.2	3.5	30.7	17.4	4.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	76.6	23.8	10.1	78.9	23.3	0.7	43.9	16.2	3.5	30.7	17.4	4.6
Queue Length 50th (ft)	~108	39	10	51	36	0	42	109	0	19	77	0
Queue Length 95th (ft)	#243	80	61	#159	75	0	#106	170	30	52	124	38
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	230		230	100		100	235		145	250		130
Base Capacity (vph)	255	648	697	171	648	669	328	1929	712	171	1770	679
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.92	0.20	0.37	0.89	0.19	0.09	0.77	0.57	0.22	0.35	0.47	0.29

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	199	407	273	33	336	253	296	677	55	167	500	160
v/c Ratio	0.78	0.34	0.44	0.20	0.79	0.58	0.94	1.09	0.09	0.72	0.94	0.31
Control Delay (s/veh)	71.8	31.9	17.2	56.8	57.6	30.6	88.2	102.9	2.0	68.5	70.5	18.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	71.8	31.9	17.2	56.8	57.6	30.6	88.2	102.9	2.0	68.5	70.5	18.0
Queue Length 50th (ft)	150	134	79	24	245	107	230	~601	0	126	381	40
Queue Length 95th (ft)	246	179	159	61	364	200	#452	#995	9	210	#672	106
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	235		50	220		60	230			260		15
Base Capacity (vph)	320	1192	629	320	546	532	314	620	587	311	530	516
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.62	0.34	0.43	0.10	0.62	0.48	0.94	1.09	0.09	0.54	0.94	0.31

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	87	229	275	564	638	199	808	273	153	941	59
v/c Ratio	0.49	0.67	0.56	2.02	1.33	0.79	0.52	0.42	0.71	0.65	0.11
Control Delay (s/veh)	54.0	48.8	11.1	496.4	194.6	66.0	30.1	8.4	61.2	33.3	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	54.0	48.8	11.1	496.4	194.6	66.0	30.1	8.4	61.2	33.3	0.4
Queue Length 50th (ft)	54	135	12	~567	~537	123	156	21	93	191	0
Queue Length 95th (ft)	111	234	88	#882	#870	#273	211	87	#190	250	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	248	444	569	279	478	267	2050	774	264	2030	717
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.35	0.52	0.48	2.02	1.33	0.75	0.39	0.35	0.58	0.46	0.08

Intersection Summary

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95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	473	245	351	259	207	113	287	1445	295	126	956	422
v/c Ratio	1.11	0.62	0.70	0.78	0.70	0.32	1.17	0.86	0.46	0.91	0.54	0.54
Control Delay (s/veh)	118.0	48.6	25.8	61.8	58.5	8.3	158.0	42.2	14.5	109.2	31.6	8.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	118.0	48.6	25.8	61.8	58.5	8.3	158.0	42.2	14.5	109.2	31.6	8.4
Queue Length 50th (ft)	~406	166	101	183	145	0	~132	367	64	94	208	35
Queue Length 95th (ft)	#612	253	212	#298	226	42	#221	430	145	#212	253	122
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	230		230	100		100	235		145	250		130
Base Capacity (vph)	426	403	502	351	324	379	245	1693	645	138	1789	788
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.11	0.61	0.70	0.74	0.64	0.30	1.17	0.85	0.46	0.91	0.53	0.54

Intersection Summary

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95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	163	613	552	115	547	350	283	421	55	323	1050	240
v/c Ratio	0.73	0.60	0.93	0.61	1.09	0.71	0.96	0.84	0.11	1.10	2.09	0.49
Control Delay (s/veh)	71.8	41.2	51.9	67.6	109.7	39.4	95.6	59.4	2.2	129.2	523.4	27.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	71.8	41.2	51.9	67.6	109.7	39.4	95.6	59.4	2.2	129.2	523.4	27.3
Queue Length 50th (ft)	129	221	302	91	~497	191	230	321	0	~295	~1342	99
Queue Length 95th (ft)	206	301	#560	154	#758	321	#428	#521	9	#507	#1675	190
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	235		50	220		60	230			260		15
Base Capacity (vph)	294	1022	593	294	502	493	294	502	493	294	502	493
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.55	0.60	0.93	0.39	1.09	0.71	0.96	0.84	0.11	1.10	2.09	0.49

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	24	276	258	572	550	234	966	728	265	712	46
v/c Ratio	0.18	0.80	0.51	2.29	1.03	0.97	0.56	0.92	1.10	0.41	0.07
Control Delay (s/veh)	53.8	60.8	8.7	615.0	83.4	100.4	31.5	33.7	132.8	29.1	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	53.8	60.8	8.7	615.0	83.4	100.4	31.5	33.7	132.8	29.1	0.2
Queue Length 50th (ft)	17	193	0	~692	~469	~178	208	265	~229	144	0
Queue Length 95th (ft)	45	#294	69	#917	#686	#345	256	#530	#401	183	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	224	402	544	250	536	241	1854	827	241	1854	667
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.11	0.69	0.47	2.29	1.03	0.97	0.52	0.88	1.10	0.38	0.07

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	287	123	215	203	187	78	165	888	138	46	1291	463
v/c Ratio	0.75	0.33	0.44	0.65	0.63	0.22	0.64	0.47	0.21	0.33	0.74	0.64
Control Delay (s/veh)	53.6	40.8	8.3	52.6	53.5	3.0	62.2	28.7	6.0	56.5	34.7	15.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	53.6	40.8	8.3	52.6	53.5	3.0	62.2	28.7	6.0	56.5	34.7	15.6
Queue Length 50th (ft)	194	76	0	138	127	0	61	185	2	32	300	101
Queue Length 95th (ft)	294	135	63	218	206	11	#107	240	46	71	366	222
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	230		230	100		100	235		145	250		130
Base Capacity (vph)	445	421	524	374	345	396	258	1884	670	160	1852	758
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.64	0.29	0.41	0.54	0.54	0.20	0.64	0.47	0.21	0.29	0.70	0.61

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	339	538	464	51	403	346	498	1122	95	209	708	242
v/c Ratio	1.14	0.43	0.68	0.32	0.87	0.72	1.71	2.09	0.18	0.83	1.44	0.50
Control Delay (s/veh)	143.0	33.8	27.3	61.8	65.3	39.1	365.5	519.8	8.7	79.9	243.4	28.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	143.0	33.8	27.3	61.8	65.3	39.1	365.5	519.8	8.7	79.9	243.4	28.4
Queue Length 50th (ft)	~338	184	208	41	320	183	~622	~1528	2	171	~817	106
Queue Length 95th (ft)	#529	240	339	85	#474	296	#839	#1799	45	#279	#1055	192
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	235		50	220		60	230			260		15
Base Capacity (vph)	297	1256	682	297	507	511	292	538	522	289	493	486
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.14	0.43	0.68	0.17	0.79	0.68	1.71	2.09	0.18	0.72	1.44	0.50

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	87	230	275	564	649	199	808	273	155	941	59
v/c Ratio	0.49	0.67	0.56	2.02	1.35	0.80	0.52	0.43	0.71	0.65	0.11
Control Delay (s/veh)	54.1	48.8	11.1	497.1	203.6	66.1	30.1	8.4	61.8	33.3	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	54.1	48.8	11.1	497.1	203.6	66.1	30.1	8.4	61.8	33.3	0.4
Queue Length 50th (ft)	54	136	12	~567	~552	123	156	21	95	191	0
Queue Length 95th (ft)	111	235	88	#882	#887	#273	211	87	#195	250	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	247	444	569	279	479	266	2049	774	264	2029	716
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.35	0.52	0.48	2.02	1.35	0.75	0.39	0.35	0.59	0.46	0.08

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	287	130	215	203	206	78	165	888	138	46	1291	463
v/c Ratio	0.76	0.34	0.44	0.65	0.67	0.21	0.64	0.48	0.21	0.34	0.75	0.64
Control Delay (s/veh)	54.0	40.9	8.2	53.0	55.5	2.9	62.7	29.4	6.1	57.5	35.0	15.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	54.0	40.9	8.2	53.0	55.5	2.9	62.7	29.4	6.1	57.5	35.0	15.7
Queue Length 50th (ft)	196	81	0	139	142	0	61	190	2	33	304	103
Queue Length 95th (ft)	294	141	63	218	226	11	#107	240	46	72	366	222
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	230		230	100		100	235		145	250		130
Base Capacity (vph)	442	421	524	371	343	394	257	1849	660	142	1839	755
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.65	0.31	0.41	0.55	0.60	0.20	0.64	0.48	0.21	0.32	0.70	0.61

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	163	613	552	115	547	350	283	432	55	323	1080	240
v/c Ratio	0.73	0.60	0.93	0.61	1.09	0.71	0.96	0.86	0.11	1.10	2.15	0.49
Control Delay (s/veh)	71.8	41.2	51.9	67.6	109.7	39.4	95.6	61.6	2.2	129.2	549.5	27.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	71.8	41.2	51.9	67.6	109.7	39.4	95.6	61.6	2.2	129.2	549.5	27.3
Queue Length 50th (ft)	129	221	302	91	~497	191	230	333	0	~295	~1392	99
Queue Length 95th (ft)	206	301	#560	154	#758	321	#428	#542	9	#507	#1727	190
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	235		50	220		60	230			260		15
Base Capacity (vph)	294	1022	593	294	502	493	294	502	493	294	502	493
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.55	0.60	0.93	0.39	1.09	0.71	0.96	0.86	0.11	1.10	2.15	0.49

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	24	282	258	572	559	234	966	728	274	712	46
v/c Ratio	0.18	0.81	0.51	2.25	1.02	0.98	0.56	0.92	1.13	0.41	0.07
Control Delay (s/veh)	53.9	61.4	8.6	601.5	81.3	101.6	31.6	34.5	142.4	29.2	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	53.9	61.4	8.6	601.5	81.3	101.6	31.6	34.5	142.4	29.2	0.2
Queue Length 50th (ft)	17	197	0	~693	~474	~183	209	272	~243	145	0
Queue Length 95th (ft)	45	#313	69	#913	#695	#345	256	#535	#413	183	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	90		250		105	250		205
Base Capacity (vph)	223	400	542	254	548	240	1846	822	242	1864	671
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.11	0.71	0.48	2.25	1.02	0.98	0.52	0.89	1.13	0.38	0.07

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	473	268	351	259	221	113	287	1445	295	126	956	422
v/c Ratio	1.12	0.67	0.70	0.79	0.73	0.31	1.18	0.86	0.46	0.91	0.54	0.54
Control Delay (s/veh)	119.5	50.7	25.6	62.0	60.6	8.2	159.8	42.5	14.6	109.9	31.7	8.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	119.5	50.7	25.6	62.0	60.6	8.2	159.8	42.5	14.6	109.9	31.7	8.4
Queue Length 50th (ft)	~406	184	101	183	156	0	~132	367	64	94	208	35
Queue Length 95th (ft)	#612	278	212	#298	#244	42	#221	430	145	#212	253	122
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	230		230	100		100	235		145	250		130
Base Capacity (vph)	424	402	502	349	322	379	244	1687	643	138	1782	787
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.12	0.67	0.70	0.74	0.69	0.30	1.18	0.86	0.46	0.91	0.54	0.54

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	339	538	464	51	403	346	498	1155	95	209	728	242
v/c Ratio	1.14	0.43	0.68	0.32	0.87	0.72	1.71	2.15	0.18	0.83	1.48	0.50
Control Delay (s/veh)	143.0	33.8	27.3	61.8	65.3	39.1	365.5	546.6	8.7	79.9	260.2	28.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	143.0	33.8	27.3	61.8	65.3	39.1	365.5	546.6	8.7	79.9	260.2	28.4
Queue Length 50th (ft)	~338	184	208	41	320	183	~622	~1586	2	171	~852	106
Queue Length 95th (ft)	#529	240	339	85	#474	296	#839	#1856	45	#279	#1094	192
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	235		50	220		60	230			260		15
Base Capacity (vph)	297	1256	682	297	507	511	292	538	522	289	493	486
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	1.14	0.43	0.68	0.17	0.79	0.68	1.71	2.15	0.18	0.72	1.48	0.50

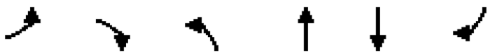
Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	82	134	188	93	289	106	714	53	70	630	56
v/c Ratio	0.36	0.28	0.35	0.37	0.62	0.43	0.48	0.09	0.32	0.45	0.10
Control Delay (s/veh)	42.5	30.1	6.9	41.2	32.6	42.8	26.7	0.3	42.3	27.6	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	42.5	30.1	6.9	41.2	32.6	42.8	26.7	0.3	42.3	27.6	0.4
Queue Length 50th (ft)	41	57	0	46	117	53	114	0	35	102	0
Queue Length 95th (ft)	96	124	54	103	235	115	177	0	85	163	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	355		300		455	415		205
Base Capacity (vph)	348	625	655	393	609	375	2860	952	371	2833	944
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.24	0.21	0.29	0.24	0.47	0.28	0.25	0.06	0.19	0.22	0.06

Intersection Summary



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	177	172	91	720	822	122
v/c Ratio	0.42	0.34	0.18	0.25	0.43	0.18
Control Delay (s/veh)	24.3	6.0	27.0	6.6	15.3	4.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	24.3	6.0	27.0	6.6	15.3	4.2
Queue Length 50th (ft)	59	0	16	39	82	0
Queue Length 95th (ft)	115	42	39	69	128	30
Internal Link Dist (ft)	1383			1272	2582	
Turn Bay Length (ft)	250	230	300			225
Base Capacity (vph)	796	807	857	3247	2689	894
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.22	0.21	0.11	0.22	0.31	0.14

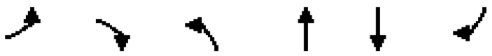
Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	37	346	139	15	288	161	130	176	20	132	240	37
v/c Ratio	0.13	0.30	0.24	0.05	0.60	0.30	0.42	0.42	0.05	0.42	0.57	0.09
Control Delay (s/veh)	38.1	20.3	10.1	38.5	32.5	6.5	38.5	31.5	0.2	38.4	34.6	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	38.1	20.3	10.1	38.5	32.5	6.5	38.5	31.5	0.2	38.4	34.6	0.4
Queue Length 50th (ft)	16	53	13	7	126	0	61	76	0	62	108	0
Queue Length 95th (ft)	56	137	71	30	249	48	141	163	0	142	219	0
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	500		45	220		175	230			425		150
Base Capacity (vph)	534	1778	840	534	911	856	534	911	821	534	911	821
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.07	0.19	0.17	0.03	0.32	0.19	0.24	0.19	0.02	0.25	0.26	0.05

Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	24	127	141	109	308	138	850	140	120	651	47
v/c Ratio	0.13	0.38	0.35	0.48	0.62	0.57	0.52	0.23	0.51	0.40	0.08
Control Delay (s/veh)	41.9	36.1	9.0	44.1	31.6	46.0	25.2	5.6	44.8	24.2	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	41.9	36.1	9.0	44.1	31.6	46.0	25.2	5.6	44.8	24.2	0.3
Queue Length 50th (ft)	11	57	0	50	105	64	120	0	55	89	0
Queue Length 95th (ft)	39	124	45	114	247	140	195	36	123	147	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	355		300		455	415		205
Base Capacity (vph)	313	562	576	357	566	337	2593	877	341	2619	885
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.23	0.24	0.31	0.54	0.41	0.33	0.16	0.35	0.25	0.05

Intersection Summary



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	143	203	209	946	734	107
v/c Ratio	0.38	0.41	0.41	0.31	0.41	0.17
Control Delay (s/veh)	24.5	6.5	27.3	6.4	16.1	4.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	24.5	6.5	27.3	6.4	16.1	4.6
Queue Length 50th (ft)	45	0	37	52	69	0
Queue Length 95th (ft)	96	47	71	87	117	29
Internal Link Dist (ft)	1383			1272	2582	
Turn Bay Length (ft)	300	230	235			225
Base Capacity (vph)	738	780	799	3080	2559	850
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.19	0.26	0.26	0.31	0.29	0.13

Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	46	311	117	6	253	129	136	248	25	72	198	38
v/c Ratio	0.15	0.27	0.20	0.02	0.54	0.26	0.42	0.45	0.05	0.24	0.49	0.09
Control Delay (s/veh)	34.4	19.6	8.5	34.3	30.5	6.9	35.4	28.3	0.2	34.9	31.8	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	34.4	19.6	8.5	34.3	30.5	6.9	35.4	28.3	0.2	34.9	31.8	0.4
Queue Length 50th (ft)	19	45	7	2	105	0	59	105	0	30	82	0
Queue Length 95th (ft)	60	117	53	15	206	43	132	197	0	83	170	0
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	500		45	220		175	230			260		150
Base Capacity (vph)	574	1876	883	574	978	894	563	959	860	557	950	852
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.17	0.13	0.01	0.26	0.14	0.24	0.26	0.03	0.13	0.21	0.04

Intersection Summary

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	84	160	228	220	378	154	752	121	93	703	57
v/c Ratio	0.44	0.45	0.47	0.75	0.76	0.65	0.47	0.20	0.48	0.54	0.11
Control Delay (s/veh)	48.6	37.6	8.2	55.5	41.0	52.8	27.8	4.3	48.9	31.3	0.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	48.6	37.6	8.2	55.5	41.0	52.8	27.8	4.3	48.9	31.3	0.5
Queue Length 50th (ft)	47	82	0	123	185	86	133	0	52	130	0
Queue Length 95th (ft)	101	155	62	#275	#399	167	194	31	109	183	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	355		300		455	415		205
Base Capacity (vph)	274	493	586	310	498	295	2272	786	292	2251	779
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.31	0.32	0.39	0.71	0.76	0.52	0.33	0.15	0.32	0.31	0.07

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	214	72	197	107	98	32	125	796	81	24	957	207
v/c Ratio	0.57	0.19	0.41	0.39	0.36	0.09	0.38	0.35	0.10	0.15	0.59	0.32
Control Delay (s/veh)	40.5	34.3	8.1	42.9	43.0	0.5	46.9	20.4	1.5	47.1	28.2	5.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	40.5	34.3	8.1	42.9	43.0	0.5	46.9	20.4	1.5	47.1	28.2	5.3
Queue Length 50th (ft)	111	35	0	56	52	0	35	101	0	13	169	0
Queue Length 95th (ft)	214	83	59	125	117	0	77	202	11	44	256	51
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	250		230	300		100	235		145	250		225
Base Capacity (vph)	557	532	592	468	432	465	352	2380	808	165	2216	805
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.38	0.14	0.33	0.23	0.23	0.07	0.36	0.33	0.10	0.15	0.43	0.26

Intersection Summary

Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	353	581	125	304	194	298
v/c Ratio	0.54	0.87	0.57	0.67	0.70	0.50
Control Delay (s/veh)	16.2	33.3	38.7	27.6	41.5	20.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	16.2	33.3	38.7	27.6	41.5	20.9
Queue Length 50th (ft)	76	166	44	98	68	92
Queue Length 95th (ft)	164	#379	#114	169	#170	158
Internal Link Dist (ft)	517	746		2579		1236
Turn Bay Length (ft)			300		350	
Base Capacity (vph)	711	718	229	624	290	689
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.50	0.81	0.55	0.49	0.67	0.43

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	185	93	66	479	2	650
v/c Ratio	0.49	0.25	0.32	0.41	0.01	0.62
Control Delay (s/veh)	17.5	18.4	27.0	8.7	23.0	16.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	17.5	18.4	27.0	8.7	23.0	16.2
Queue Length 50th (ft)	35	24	19	55	1	153
Queue Length 95th (ft)	82	55	54	205	6	#370
Internal Link Dist (ft)	5362	554		2572		2579
Turn Bay Length (ft)			175		100	
Base Capacity (vph)	722	761	209	1226	204	1087
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.26	0.12	0.32	0.39	0.01	0.60

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	112	436	288	47	368	239	217	346	39	236	620	155
v/c Ratio	0.56	0.42	0.52	0.27	0.80	0.45	0.80	0.64	0.07	0.83	1.11	0.29
Control Delay (s/veh)	60.6	34.5	21.9	56.0	54.8	11.3	69.4	43.2	0.3	70.5	110.2	16.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	60.6	34.5	21.9	56.0	54.8	11.3	69.4	43.2	0.3	70.5	110.2	16.5
Queue Length 50th (ft)	81	143	97	33	254	25	156	229	0	169	~544	35
Queue Length 95th (ft)	148	193	187	77	392	99	#282	366	0	#321	#863	99
Internal Link Dist (ft)		1251			861			1224			2572	
Turn Bay Length (ft)	500		45	220		175	230			425		150
Base Capacity (vph)	328	1117	589	328	559	611	328	559	539	328	559	539
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.34	0.39	0.49	0.14	0.66	0.39	0.66	0.62	0.07	0.72	1.11	0.29

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	23	163	196	236	363	189	854	292	153	657	43
v/c Ratio	0.15	0.57	0.48	0.77	0.62	0.73	0.55	0.43	0.66	0.44	0.08
Control Delay (s/veh)	45.7	45.2	9.7	56.8	32.4	57.0	28.8	5.3	54.0	28.1	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	45.7	45.2	9.7	56.8	32.4	57.0	28.8	5.3	54.0	28.1	0.3
Queue Length 50th (ft)	12	87	0	129	141	101	150	0	83	114	0
Queue Length 95th (ft)	42	168	60	#309	#358	#239	215	59	170	162	0
Internal Link Dist (ft)		2009			2713		2582			1915	
Turn Bay Length (ft)	230		240	355		300		455	415		205
Base Capacity (vph)	270	484	556	307	590	290	2233	860	293	2255	782
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.09	0.34	0.35	0.77	0.62	0.65	0.38	0.34	0.52	0.29	0.05

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	234	131	257	153	121	58	251	1094	160	59	827	194
v/c Ratio	0.92	0.40	0.56	0.89	0.37	0.14	0.77	0.57	0.22	0.35	0.54	0.32
Control Delay (s/veh)	76.6	23.8	10.1	78.9	23.3	0.7	43.9	16.2	3.5	30.7	17.4	4.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	76.6	23.8	10.1	78.9	23.3	0.7	43.9	16.2	3.5	30.7	17.4	4.6
Queue Length 50th (ft)	~108	39	10	51	36	0	42	109	0	19	77	0
Queue Length 95th (ft)	#243	80	61	#159	75	0	#106	170	30	52	124	38
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	250		230	300		100	235		145	250		225
Base Capacity (vph)	255	648	697	171	648	669	328	1929	712	171	1770	679
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.92	0.20	0.37	0.89	0.19	0.09	0.77	0.57	0.22	0.35	0.47	0.29

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	413	526	185	410	209	249
v/c Ratio	0.70	0.87	0.68	0.78	0.72	0.46
Control Delay (s/veh)	24.5	36.7	40.6	31.0	41.7	20.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	24.5	36.7	40.6	31.0	41.7	20.2
Queue Length 50th (ft)	123	171	68	138	77	74
Queue Length 95th (ft)	#230	#352	#157	#235	#174	132
Internal Link Dist (ft)	517	456		2579		1236
Turn Bay Length (ft)			300		350	
Base Capacity (vph)	639	647	290	642	311	663
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.65	0.81	0.64	0.64	0.67	0.38

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBT	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	239	119	93	657	1	499
v/c Ratio	0.58	0.29	0.51	0.64	0.01	0.63
Control Delay (s/veh)	20.0	18.7	37.8	14.1	26.0	16.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	20.0	18.7	37.8	14.1	26.0	16.6
Queue Length 50th (ft)	46	27	25	99	0	110
Queue Length 95th (ft)	119	73	#103	#402	4	238
Internal Link Dist (ft)	5362	554		2572		2579
Turn Bay Length (ft)			175		100	
Base Capacity (vph)	655	676	184	1110	182	1057
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.36	0.18	0.51	0.59	0.01	0.47

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	199	407	273	33	336	253	296	732	167	500	160
v/c Ratio	0.87	0.37	0.46	0.20	0.82	0.49	0.90	0.59	0.72	0.90	0.29
Control Delay (s/veh)	87.9	36.3	21.6	58.3	62.6	11.9	79.1	34.7	69.5	61.8	10.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	87.9	36.3	21.6	58.3	62.6	11.9	79.1	34.7	69.5	61.8	10.7
Queue Length 50th (ft)	167	149	96	26	266	24	245	254	137	397	20
Queue Length 95th (ft)	#312	199	185	61	#397	101	#416	339	210	#597	74
Internal Link Dist (ft)		1251			861			1224		2572	
Turn Bay Length (ft)	500		45	220		175	230		425		150
Base Capacity (vph)	241	1117	593	166	476	567	355	1323	308	617	608
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.83	0.36	0.46	0.20	0.71	0.45	0.83	0.55	0.54	0.81	0.26

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	87	230	275	564	302	347	199	808	273	155	941	59
v/c Ratio	0.59	0.71	0.58	0.87	0.55	0.51	0.85	0.54	0.28	0.74	0.66	0.10
Control Delay (s/veh)	64.6	52.8	12.3	57.3	36.7	8.6	76.5	31.9	3.6	65.9	34.5	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	64.6	52.8	12.3	57.3	36.7	8.6	76.5	31.9	3.6	65.9	34.5	0.4
Queue Length 50th (ft)	55	141	16	184	172	20	128	164	12	96	195	0
Queue Length 95th (ft)	#137	241	96	#336	286	103	#299	219	55	#212	257	0
Internal Link Dist (ft)		2009			2713			2582			1915	
Turn Bay Length (ft)	230		240	355		150	300		455	415		205
Base Capacity (vph)	153	431	555	645	606	721	234	1850	964	242	1863	697
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.57	0.53	0.50	0.87	0.50	0.48	0.85	0.44	0.28	0.64	0.51	0.08

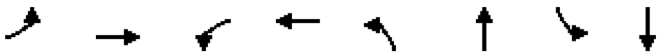
Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	16	267	187	65	541	288	193	327	36	258	586
v/c Ratio	0.16	0.42	0.28	0.21	0.84	0.42	0.61	0.51	0.06	0.50	0.85
Control Delay (s/veh)	27.1	25.4	4.8	24.0	40.7	9.3	22.8	26.4	2.1	14.5	38.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	27.1	25.4	4.8	24.0	40.7	9.3	22.8	26.4	2.1	14.5	38.3
Queue Length 50th (ft)	6	118	0	26	287	32	55	150	0	77	309
Queue Length 95th (ft)	25	198	45	62	#480	99	#114	244	9	128	#467
Internal Link Dist (ft)		517			746			2579			1236
Turn Bay Length (ft)	100		125	100		150	300			350	
Base Capacity (vph)	123	796	783	396	812	808	334	806	721	584	900
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.13	0.34	0.24	0.16	0.67	0.36	0.58	0.41	0.05	0.44	0.65

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	92	272	24	161	104	599	3	1228
v/c Ratio	0.65	0.60	0.18	0.48	0.63	0.38	0.02	0.83
Control Delay (s/veh)	59.5	26.5	38.3	32.5	54.2	14.9	35.3	25.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	59.5	26.5	38.3	32.5	54.2	14.9	35.3	25.5
Queue Length 50th (ft)	42	80	11	68	47	88	1	242
Queue Length 95th (ft)	#124	176	35	123	#131	148	10	#418
Internal Link Dist (ft)		5362		554		2572		2579
Turn Bay Length (ft)	175		100		175		100	
Base Capacity (vph)	141	523	131	486	165	1702	127	1613
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.65	0.52	0.18	0.33	0.63	0.35	0.02	0.76

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	163	613	552	115	547	350	283	487	323	1080	240
v/c Ratio	0.78	0.74	0.78	0.65	0.72	0.42	0.66	0.51	0.87	0.85	0.37
Control Delay (s/veh)	76.3	47.7	33.7	71.3	49.1	12.5	58.1	38.1	68.0	42.4	15.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	76.3	47.7	33.7	71.3	49.1	12.5	58.1	38.1	68.0	42.4	15.0
Queue Length 50th (ft)	124	234	320	88	212	94	110	164	240	390	58
Queue Length 95th (ft)	#255	314	469	#186	286	174	163	234	#412	539	138
Internal Link Dist (ft)		1251			861			1224		2572	
Turn Bay Length (ft)	500		45	220		175	230		425		150
Base Capacity (vph)	229	1009	763	183	917	890	563	1089	443	1407	705
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.71	0.61	0.72	0.63	0.60	0.39	0.50	0.45	0.73	0.77	0.34

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queuing and Blocking Report

Intersection: 9: Project Driveway 3 & Behymer Avenue

Movement	WB	NB
Directions Served	L	R
Maximum Queue (ft)	28	103
Average Queue (ft)	3	22
95th Queue (ft)	17	60
Link Distance (ft)		399
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	100	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	24	282	258	572	277	282	234	966	728	274	712	46
v/c Ratio	0.18	0.79	0.50	0.97	0.41	0.37	0.68	0.67	0.90	1.07	0.59	0.09
Control Delay (s/veh)	51.3	56.5	8.4	74.4	30.2	5.3	51.9	35.7	27.9	119.4	37.9	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	51.3	56.5	8.4	74.4	30.2	5.3	51.9	35.7	27.9	119.4	37.9	0.3
Queue Length 50th (ft)	15	178	0	198	124	0	147	211	191	~205	156	0
Queue Length 95th (ft)	45	#308	68	#352	260	64	#264	263	#453	#410	205	0
Internal Link Dist (ft)		2009			2713			2582			1915	
Turn Bay Length (ft)	230		240	355		150	300		455	415		205
Base Capacity (vph)	137	424	559	591	676	756	342	1858	810	257	1978	731
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.18	0.67	0.46	0.97	0.41	0.37	0.68	0.52	0.90	1.07	0.36	0.06

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	473	268	351	259	221	113	287	1445	295	126	956	422
v/c Ratio	0.95	0.60	0.64	0.82	0.87	0.30	0.80	0.92	0.48	0.85	0.63	0.55
Control Delay (s/veh)	71.2	46.3	20.0	66.3	81.5	2.3	67.2	48.4	14.5	94.4	37.2	5.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	71.2	46.3	20.0	66.3	81.5	2.3	67.2	48.4	14.5	94.4	37.2	5.9
Queue Length 50th (ft)	344	180	80	185	163	0	108	377	60	93	224	0
Queue Length 95th (ft)	#551	271	186	#312	#302	3	#168	#467	142	#200	273	75
Internal Link Dist (ft)		1383			5362			1272			2582	
Turn Bay Length (ft)	250		230	300		100	235		145	250		225
Base Capacity (vph)	498	443	550	329	253	376	374	1579	620	152	1529	773
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.95	0.60	0.64	0.79	0.87	0.30	0.77	0.92	0.48	0.83	0.63	0.55

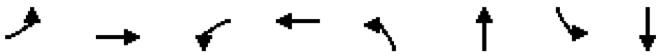
Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	18	534	194	38	543	240	280	675	69	243	349
v/c Ratio	0.27	0.91	0.34	0.57	0.91	0.40	0.50	0.92	0.10	0.84	0.79
Control Delay (s/veh)	43.3	58.4	17.4	68.6	57.8	15.6	37.0	51.2	8.1	72.7	53.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	43.3	58.4	17.4	68.6	57.8	15.6	37.0	51.2	8.1	72.7	53.0
Queue Length 50th (ft)	10	393	55	24	399	58	171	482	6	185	255
Queue Length 95th (ft)	34	#595	118	#81	#602	129	286	#712	35	#327	332
Internal Link Dist (ft)		517			624			2579			1236
Turn Bay Length (ft)	100		125	100		150	300			350	
Base Capacity (vph)	73	653	618	75	666	656	566	823	731	311	644
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.25	0.82	0.31	0.51	0.82	0.37	0.49	0.82	0.09	0.78	0.54

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	136	345	24	191	169	1177	4	765
v/c Ratio	0.65	0.59	0.18	0.56	0.65	0.69	0.03	0.75
Control Delay (s/veh)	49.9	24.1	38.3	33.5	43.7	18.8	35.5	28.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	49.9	24.1	38.3	33.5	43.7	18.8	35.5	28.0
Queue Length 50th (ft)	60	103	10	79	72	184	2	154
Queue Length 95th (ft)	#153	224	35	144	#162	#404	11	237
Internal Link Dist (ft)		5362		554		2572		2579
Turn Bay Length (ft)	175		100		175		100	
Base Capacity (vph)	217	601	130	483	293	1753	126	1203
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.63	0.57	0.18	0.40	0.58	0.67	0.03	0.64

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	339	538	464	51	403	346	498	1250	209	728	242
v/c Ratio	0.98	0.61	0.53	0.20	0.67	0.64	0.68	1.02	0.95	0.79	0.45
Control Delay (s/veh)	92.9	44.9	18.6	48.3	52.8	22.5	50.5	68.7	103.2	48.1	14.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	92.9	44.9	18.6	48.3	52.8	22.5	50.5	68.7	103.2	48.1	14.2
Queue Length 50th (ft)	263	207	188	35	155	114	186	~518	163	272	43
Queue Length 95th (ft)	#480	263	301	77	210	175	#291	#721	#332	349	117
Internal Link Dist (ft)		1251			861			1224		2572	
Turn Bay Length (ft)	500		45	220		175	230		425		150
Base Capacity (vph)	346	1264	881	250	902	538	731	1230	219	1052	588
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.98	0.43	0.53	0.20	0.45	0.64	0.68	1.02	0.95	0.69	0.41

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Queuing and Blocking Report

Intersection: 9: Project Driveway 3 & Behymer Avenue

Movement	WB	NB
Directions Served	L	R
Maximum Queue (ft)	51	32
Average Queue (ft)	23	9
95th Queue (ft)	44	30
Link Distance (ft)		399
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	100	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Appendix A. California Agricultural LESA Worksheets

NOTES

The Peach and Behymer Residential Project is a 37.44 acre project site located in unincorporated Fresno County, within the City of Clovis Sphere of Influence (SOI). Two soil types have been identified on the project site: Ramona sandy loam (Ra) and San Joaquin sandy loam, 0 to 3 percent slopes, Major Land Resource Area (MLRA) 17 (ScA) (refer to Figure 1: Soils, at the end of the worksheets). The acreage of each soil type is divided by the total project acreage (37.44 acres) to determine the proportion of each soil type on the project site. The Land Capability Classification (LCC) and Storie Index for the onsite soils were found on the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey.

According to the USDA NRCS Web Soil Survey, the LLCs for the two soil types are as follows: I for Ra and IVs for ScA for irrigated land; and IVc for Ra and IVs for ScA for nonirrigated land. The property owners have indicated that only 7 acres of Ra soil within the project site are irrigated via Fresno Irrigation District (FID) water deliveries. As such, an LCC value for irrigated land was used for the 7 acres of Ra soil that are irrigated, while the nonirrigated LCC value was used for the remaining acreages of nonirrigated soil for each soil type in the project site.

According to the USDA NRCS Web Soil Survey, Ramona sandy loam has a Storie Index score of 95, and San Joaquin sandy loam, 0 to 3 percent slopes, MLRA 17 has a Storie Index score of 16.

Calculation of the Land Evaluation (LE) Score

Part 1. Land Capability Classification (LCC) Score:

(1) Determine the total acreage of the project.
(2) Determine the soil types within the project area and enter them in **Column A** of the **Land Evaluation Worksheet** provided on page 2-A.
(3) Calculate the total acres of each soil type and enter the amounts in **Column B**.
(4) Divide the acres of each soil type (**Column B**) by the total acreage to determine the proportion of each soil type present. Enter the proportion of each soil type in **Column C**.
(5) Determine the LCC for each soil type from the applicable Soil Survey and enter it in **Column D**.
(6) From the LCC Scoring Table below, determine the point rating corresponding to the LCC for each soil type and enter it in **Column E**.

LCC Scoring Table

LCC Class	I	IIe	IIs,w	IIIe	IIIs,w	IVe	IVs,w	V	VI	VII	VIII
Points	100	90	80	70	60	50	40	30	20	10	0

(7) Multiply the proportion of each soil type (**Column C**) by the point score (**Column E**) and enter the resulting scores in **Column F**.
(8) Sum the LCC scores in **Column F**.
(9) Enter the LCC score in box <1> of the **Final LESA Score Sheet** on page 10-A.

Part 2. Storie Index Score:

(1) Determine the Storie Index rating for each soil type and enter it in **Column G**.
(2) Multiply the proportion of each soil type (**Column C**) by the Storie Index rating (**Column G**) and enter the scores in **Column H**.
(3) Sum the Storie Index scores in **Column H** to gain the Storie Index Score.
(4) Enter the Storie Index Score in box <2> of the **Final LESA Score Sheet** on page 10-A.

Land Evaluation Worksheet

Land Capability Classification (LCC) and Storie Index Scores

A	B	C	D	E	F	G	H
Soil Map Unit	Project Acres	Proportion of Project Area	LCC	LCC Rating	LCC Score	Storie Index	Storie Index Score
Ra	29.93	0.7994	IVc	40	31.976	95	75.943
ScA	0.51	0.0136	IVs	40	0.544	16	0.2176
Ra	7.0	0.1870	I	100	18.7	95	17.765
Totals	37.44	(Must Sum to 1.0)		***LCC Total Score***	51.22	***Storie Index Total Score***	93.9256

Site Assessment Worksheet 1.

Project Size Score

	I	J	K
	LCC Class I - II	LCC Class III	LCC Class IV - VIII
			29.93
			0.51
	7.0		
Total Acres	7.0		30.44
Project Size Scores	0		0

Highest Project Size Score 0

NOTES

Column I - 7.0 acres of Class I soils corresponds to a score of 0 points.
Column K - 30.44 acres of Class IV soils corresponds to a score of 0 points.

Calculation of the Site Assessment (SA) Score

Part 1. Project Size Score:.

(1) Using **Site Assessment Worksheet 1** provided on page 2-A, enter the acreage of each soil type from **Column B** in the **Column - I, J or K** - that corresponds to the LCC for that soil. (Note: While the Project Size Score is a component of the Site Assessment calculations, the score sheet is an extension of data collected in the Land Evaluation Worksheet, and is therefore displayed beside it).
(2) Sum **Column I** to determine the total amount of class I and II soils on the project site.
(3) Sum **Column J** to determine the total amount of class III soils on the project site.
(4) Sum **Column K** to determine the total amount of class IV and lower soils on the project site.
(5) Compare the total score for each LCC group in the Project Size Scoring Table below and determine which group receives the highest score.

Project Size Scoring Table

Class I or II		**Class III**		**Class IV or Lower**	
Acreage	Points	Acreage	Points	Acreage	Points
>80	100	>160	100	>320	100
60-79	90	120-159	90	240-319	80
40-59	80	80-119	80	160-239	60
20-39	50	60-79	70	100-159	40
10-19	30	40-59	60	40-99	20
10<	0	20-39	30	40<	0
		10-19	10		
		10<	0		

(6) Enter the **Project Size Score** (the highest score from the three LCC categories) in box <3> of the **Final LESA Score Sheet** on page 10-A.

NOTES

The 37.44-acre project site is made up of two parcels, Assessor's Parcel Numbers (APNs) 556-010-28 and 556-010-29.

APN 556-010-29, which represents approximately 23.93 acres of the project site, has an existing groundwater well that currently provides water to the property owner's existing residence onsite, and was previously used for agricultural irrigation; however, the well at this parcel has experienced continued decline in groundwater and is no longer usable for irrigation. This portion of the project site is also located within the FID boundary and is entitled to receive surface water deliveries. However, drought conditions in the region have resulted in dwindling surface water supplies, and the increasing utility costs for surface water supplies when available have placed economic restrictions on irrigation of the project site. Since the onsite well was rendered unusable for agricultural irrigation, and the high cost of FID water deliveries limits the irrigation water supply for the site during non-drought years, only approximately 7 acres of this portion of the site are irrigated via FID water deliveries during non-drought years, while the remaining land is not irrigated and left fallow. During drought years, irrigation is infeasible and agricultural fields within this parcel are left fallow. Therefore, a water resource availability score of 45 was used for this portion of the project site.

APN 556-010-28, which represents approximately 13.51 acres of the project site, does not have an existing water source for irrigation. There are no groundwater wells located on this parcel. This parcel is not entitled to receive FID surface water deliveries. Additionally, this portion of the project site is currently outside of the City of Clovis and is not legally entitled to receive any municipal water deliveries. Therefore, a water resource availability score of 20 was used for this portion of the project site.

Part 2. Water Resource Availability Score:

(1) Determine the type(s) of irrigation present on the project site, including a determination of whether there is dryland agricultural activity as well.

(2) Divide the site into portions according to the type or types of irrigation or dryland cropping that is available in each portion. Enter this information in **Column B** of **Site Assessment Worksheet 2. - Water Resources Availability**.

(3) Determine the proportion of the total site represented for each portion identified, and enter this information in **Column C**.

(4) Using the Water Resources Availability Scoring Table, identify the option that is most applicable for each portion, based upon the feasibility of irrigation in drought and non-drought years, and whether physical or economic restrictions are likely to exist. Enter the applicable Water Resource Availability Score into **Column D**.

(5) Multiply the Water Resource Availability Score for each portion by the proportion of the project area it represents to determine the weighted score for each portion in **Column E**.

(6) Sum the scores for all portions to determine the project's total Water Resources Availability Score

(7) Enter the Water Resource Availability Score in box <4> of the **Final LESA Score Sheet** on page 10-A.

Site Assessment Worksheet 2. - Water Resources Availability

A	B	C	D	E
Project Portion	Water Source	Proportion of Project Area	Water Availability Score	Weighted Availability Score (C x D)
1	FID Surface Water Delivery	0.6392	45	28.764
2	None Available	0.3608	20	7.216
3				
4				
5				
6				
		(Must Sum to 1.0)	***Total Water Resource Score***	35.98

Water Resource Availability Scoring Table

Option	Non-Drought Years			Drought Years			WATER RESOURCE SCORE
	RESTRICTIONS			RESTRICTIONS			
	Irrigated Production Feasible?	Physical Restrictions ?	Economic Restrictions ?	Irrigated Production Feasible?	Physical Restrictions ?	Economic Restrictions ?	
1	YES	NO	NO	YES	NO	NO	100
2	YES	NO	NO	YES	NO	YES	95
3	YES	NO	YES	YES	NO	YES	90
4	YES	NO	NO	YES	YES	NO	85
5	YES	NO	NO	YES	YES	YES	80
6	YES	YES	NO	YES	YES	NO	75
7	YES	YES	YES	YES	YES	YES	65
8	YES	NO	NO	NO	-- --	-- --	50
9	YES	NO	YES	NO	-- --	-- --	45
10	YES	YES	NO	NO	-- --	-- --	35
11	YES	YES	YES	NO	-- --	-- --	30
12	Irrigated production not feasible, but rainfall adequate for dryland production in both drought and non-drought years						25
13	Irrigated production not feasible, but rainfall adequate for dryland production in non-drought years (but not in drought years)						20
14	Neither irrigated nor dryland production feasible						0

NOTES

As shown in Figure 2, the total acreage of the Zone of Influence (ZOI) is 496.25 acres, and 461.45 acres of the ZOI are under agricultural production (based on the California Department of Conservation Farmland Mapping and Monitoring Program). Approximately 93 percent of the ZOI is under agricultural production. Therefore, the Surrounding Agricultural Land Score equates to 100 points.

Part 3. Surrounding Agricultural Land Use Score:

(1) Calculate the project's Zone of Influence (ZOI) as follows:
(a) a rectangle is drawn around the project such that the rectangle is the smallest that can completely encompass the project area.
(b) a second rectangle is then drawn which extends one quarter mile on all sides beyond the first rectangle.
(c) The ZOI includes all parcels that are contained within or are intersected by the second rectangle, less the area of the project itself.
(2) Sum the area of all parcels to determine the total acreage of the ZOI.
(3) Determine which parcels are in agricultural use and sum the areas of these parcels
(4) Divide the area in agriculture found in step (3) by the total area of the ZOI found in step (2) to determine the percent of the ZOI that is in agricultural use.
(5) Determine the Surrounding Agricultural Land Score utilizing the Surrounding Agricultural Land Scoring Table below.

Surrounding Agricultural Land Scoring Table

Percent of ZOI in Agriculture	Surrounding Agricultural Land Score
90-100	100
80-89	90
75-79	80
70-74	70
65-69	60
60-64	50
55-59	40
50-54	30
45-49	20
40-44	10
<40	0

(5) Enter the Surrounding Agricultural Land Score in box <5> of the **Final LESA Score Sheet** on page 10-A.

Site Assessment Worksheet 3.
Surrounding Agricultural Land and Surrounding Protected Resource Land

A	B	C	D	E	F	G
Zone of Influence						
Total Acres	Acres in Agriculture	Acres of Protected Resource Land	Percent in Agriculture (A/B)	Percent Protected Resource Land (A/C)	Surrounding Agricultural Land Score (From Table)	Surrounding Protected Resource Land Score (From Table)
496.25	461.45	0	93	0	100	0

NOTES

As shown in Figure 3, the total acreage of the ZOI is 496.25 acres. No portion of the ZOI consists of protected resource lands, defined as Williamson Act contracted lands; publicly owned lands maintained as park, forest, or watershed resources; and lands with agricultural, wildlife habitat, open space, or other natural resource easements that restrict the conversion of such land to urban or industrial uses. As such, the Surrounding Protected Resource Score equates to 0 points.

Part 4. Protected Resource Lands Score:

The Protected Resource Lands scoring relies upon the same Zone of Influence information gathered in Part 3, and figures are entered in Site Assessment Worksheet 3, which combines the surrounding agricultural and protected lands calculations.

(1) Use the total area of the ZOI calculated in Part 3. for the Surrounding Agricultural Land Use score.
(2) Sum the area of those parcels within the ZOI that are protected resource lands, as defined in the California Agricultural LESA Guidelines.
(3) Divide the area that is determined to be protected in Step (2) by the total acreage of the ZOI to determine the percentage of the surrounding area that is under resource protection.
(4) Determine the Surrounding Protected Resource Land Score utilizing the Surrounding Protected Resource Land Scoring Table below.

Surrounding Protected Resource Land Scoring Table

Percent of ZOI Protected	Protected Resource Land Score
90-100	100
80-89	90
75-79	80
70-74	70
65-69	60
60-64	50
55-59	40
50-54	30
45-49	20
40-44	10
<40	0

(5) Enter the Protected Resource Land score in box <6> of the **Final LESA Score Sheet** on page 10-A.

LESA Worksheet (cont.)

NOTES

The component LE and SA factors have been entered into the Final LESA Score Sheet.

The LE factor scores are multiplied by the factor weights to determine the weighted score for each. The weighted LE factor scores are summed to determine the LE portion of the Final LESA score.

The SA factor scores are multiplied by the factor weights to determine the weighted score for each. The weighted SA factor scores are summed to determine the SA portion of the Final LESA score.

The LE and SA subtotals are summed to determine the Final LESA Score. The Final LESA Score for the proposed project is 56.6834 points. A final score between 40 to 59 points is considered significant only if the LE and SA subscores are each greater than or equal to 20 points. Both the LE and SA subscores for the project are greater than 20 points. Therefore, the LESA Model concludes that the conversion of the agricultural land (Prime Farmland, Farmland of Statewide Importance, and Farmland of Local Importance) on the project site to a non-agricultural use would constitute a significant impact.

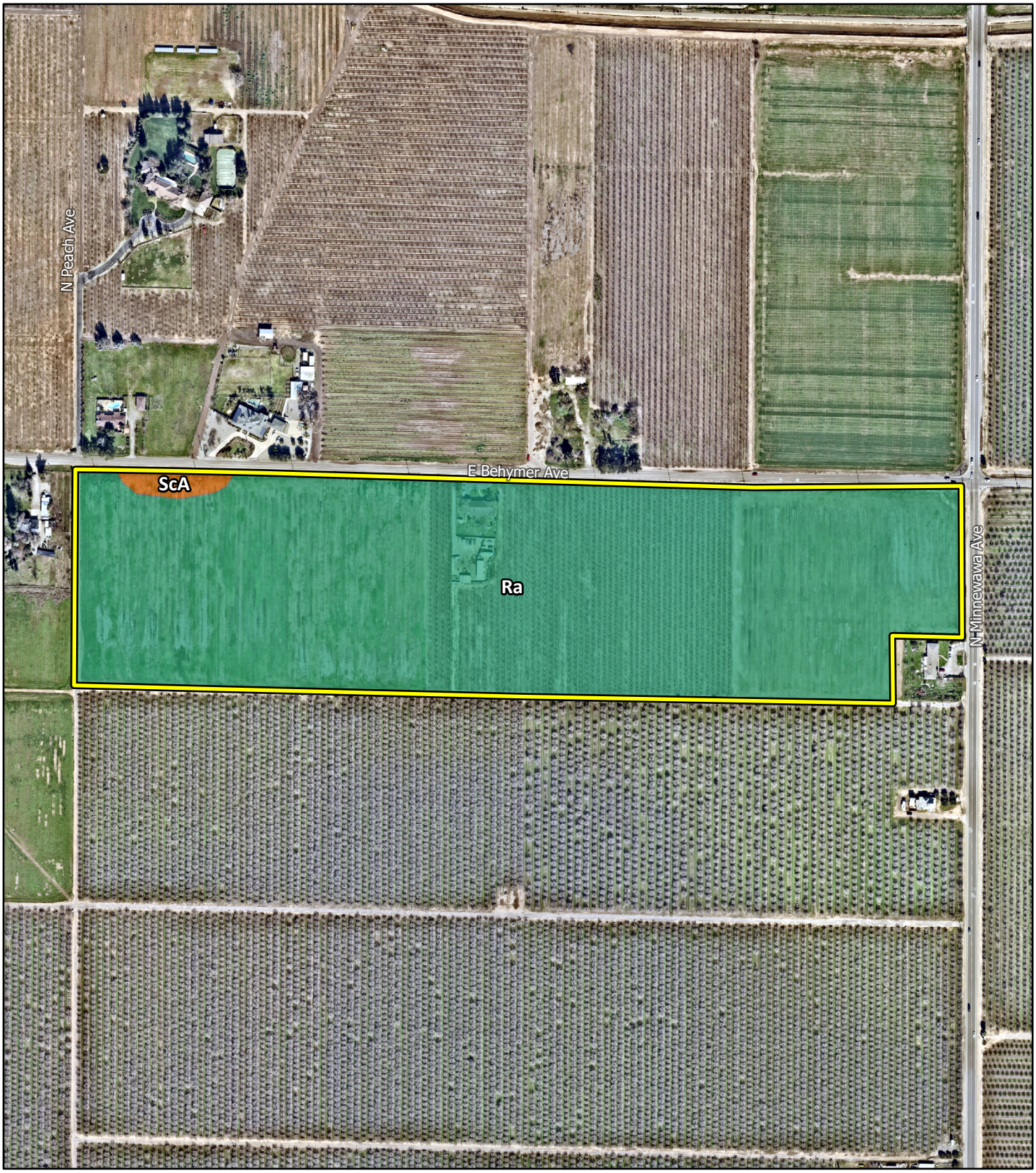
Final LESA Score Sheet

Calculation of the Final LESA Score:

(1) Multiply each factor score by the factor weight to determine the weighted score and enter in Weighted Factor Scores column.
(2) Sum the weighted factor scores for the LE factors to determine the total LE score for the project.
(3) Sum the weighted factor scores for the SA factors to determine the total SA score for the project.
(4) Sum the total LE and SA scores to determine the Final LESA Score for the project.

	Factor Scores	Factor Weight	Weighted Factor Scores
LE Factors			
Land Capability Classification	<1> 51.22	0.25	12.805
Storie Index	<2> 93.9256	0.25	23.4814
LE Subtotal		***0.50***	36.2864
SA Factors			
Project Size	<3> 0	0.15	0
Water Resource Availability	<4> 35.98	0.15	5.397
Surrounding Agricultural Land	<5> 100	0.15	15
Protected Resource Land	<6> 0	0.05	0
SA Subtotal		***0.50***	20.397
		Final LESA Score	56.6834

For further information on the scoring thresholds under the California Agricultural LESA Model, consult Section 4 of the Instruction Manual.



LSA

FIGURE 1

Project Location - 37.44 acres

Soils

Ra - Ramona sandy loam - 36.93 acres

ScA - San Joaquin sandy loam, 0 to 3 percent slopes, MLRA 17 - 0.51 acres

0 200 400
FEET

Peach and Behymer Residential Project

Soils

SOURCE: Nearmap (02/2024); USDA SSURGO (2024)

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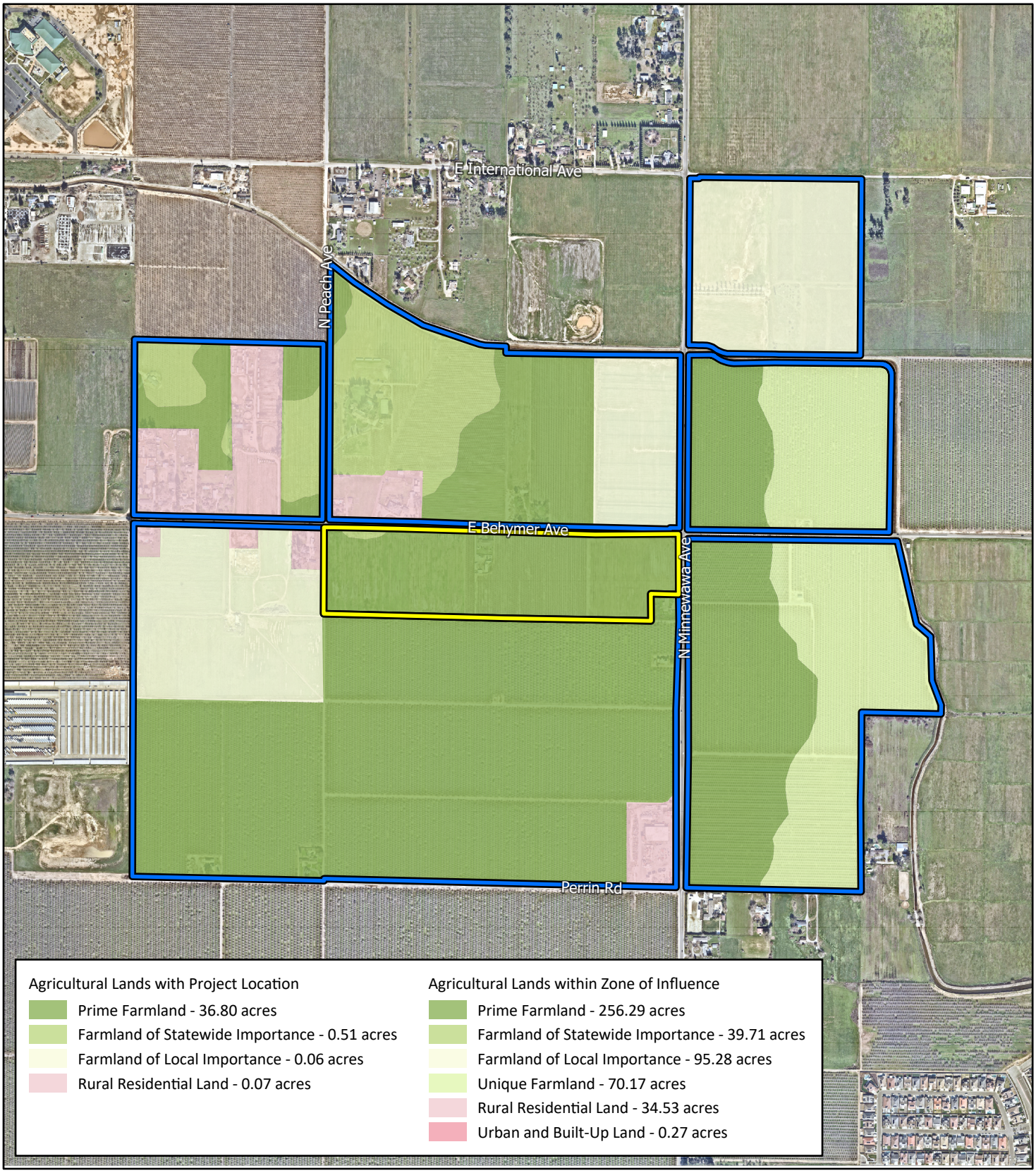

LSA

FIGURE 2

Peach and Behymer Residential Project

Zone of Influence Agricultural Lands

SOURCE: USGS The National Map (2018)

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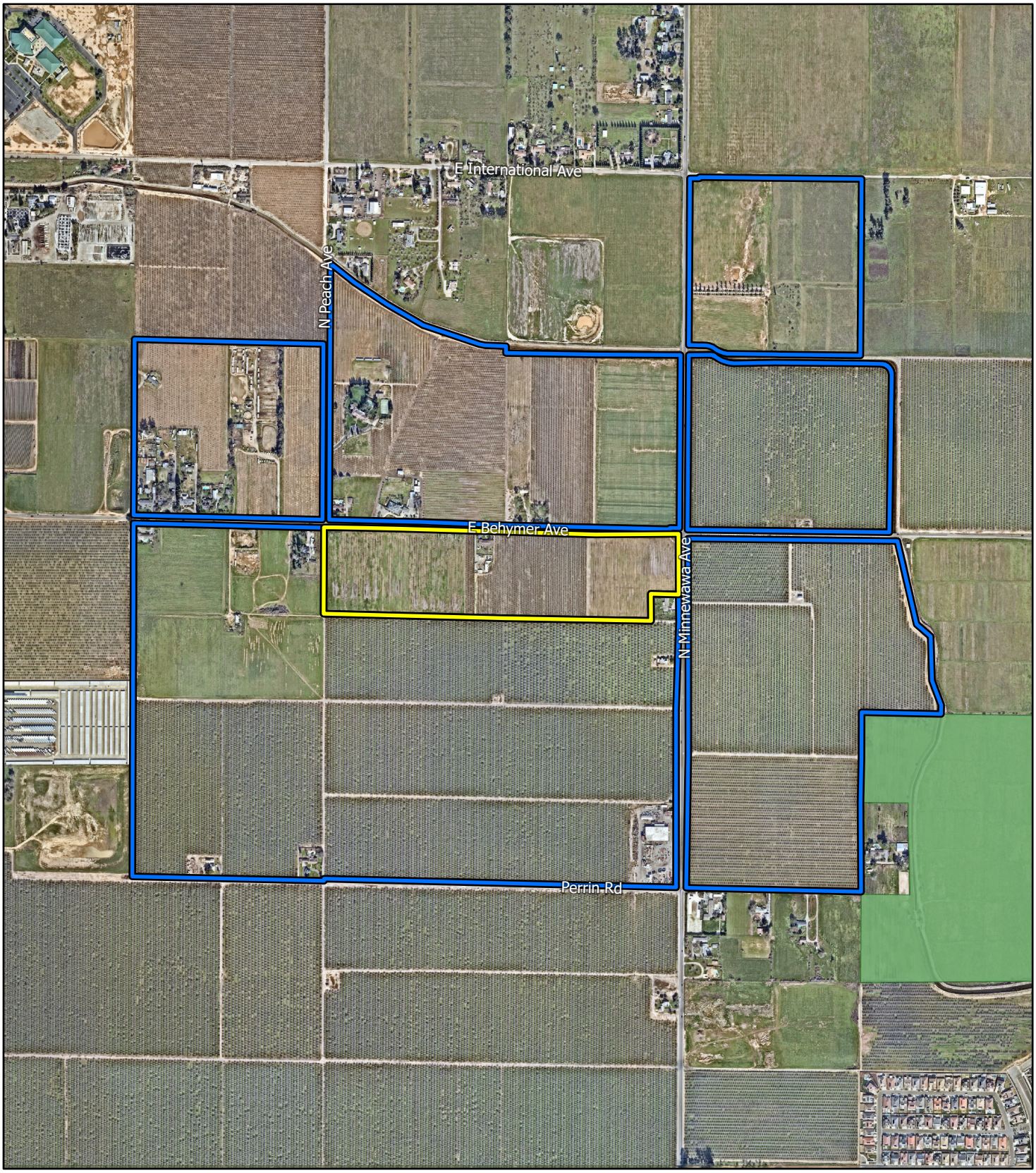

LSA

Project Location - 37.44 acres

Zone of Influence - 496.25 acres

Williamson Act Enrollment 2023

Prime Agriculture Land

Nonprime Agriculture Land

Nonrenewal

Farmland Security Zone

Mixed Enrollment Agriculture Land

FIGURE 3

N

0 500 1000

FEET

Peach and Behymer Residential Project

Zone of Influence Protected Resource Lands

SOURCE: Nearmap (02/2024); CDOC (2023)

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