

APPENDIX A

NOTICE OF PREPARATION/INITIAL STUDY

Notice of Completion & Environmental Document Transmittal

Mail to: State Clearinghouse, P.O. Box 3044, Sacramento, C For Hand Delivery/Street Address: 1400 Tenth Street, Sacra	
Project Title: Elk Grove Station Project	
Lead Agency: San Joaquin Regional Rail Commission	Contact Person: David Ripperda
Mailing Address: 949 E. Channel Street	Phone: (209) 944-6275
	Zip: 95202 County: San Joaquin
Project Location: County: Sacramento	City/Nearest Community: Elk Grove
Cross Streets: Elk Grove Blvd to Sims Road	Zip Code: <u>95758</u>
	<u>' 16.0476" N / '" W Total Acres:36.0</u>
Assessor's Parcel No.:	4.50
Within 2 Miles: State Hwy #: Interstate 5 (I-5)	Waterways: Lake Heron; North Shore Lake; Franklin Creek
Airports: N/A	Railways: UPRR Schools: Stone Lake Elementary School
Document Type: CEQA: NOP Draft EIR Early Cons Supplement/Subsequent EIR Neg Dec (Prior SCH No.) Mit Neg Dec Other:	Draft EIS
☐ General Plan Update ☐ Specific Plan ☐ General Plan Amendment ☐ Master Plan ☐ General Plan Element ☐ Planned Unit Developmen ☐ Community Plan ☐ Site Plan	Rezone
Development Type: Residential: Units	Mining: Mineral
Project Issues Discussed in Document:	
□ Aesthetic/Visual □ Fiscal □ Agricultural Land □ Flood Plain/Flooding □ Air Quality □ Forest Land/Fire Hazard □ Archeological/Historical □ Geologic/Seismic □ Biological Resources □ Minerals □ Coastal Zone □ Noise □ Drainage/Absorption □ Population/Housing Baland □ Economic/Jobs □ Public Services/Facilities	□ Recreation/Parks □ Vegetation □ Schools/Universities □ Water Quality □ Septic Systems □ Water Supply/Groundwater □ Sewer Capacity □ Wetland/Riparian □ Solid Erosion/Compaction/Grading □ Growth Inducement □ Solid Waste □ Land Use ce □ Toxic/Hazardous □ Cumulative Effects □ Traffic/Circulation □ Other:
Present Land Use/Zoning/General Plan Designation: Lan Zon	nd Use: Station Site = Light Industrial; Rail = Public Services ning: Light Industrial

Project Description: (please use a separate page if necessary)

The San Joaquin Joint Powers Authority (SJJPA) and the San Joaquin Regional Rail Commission (SJRRC), which manage the Amtrak San Joaquins and the Altamont Corridor Express (ACE), respectively, are jointly undertaking the planning, design, and environmental review of the Elk Grove Station Project (proposed Project). The proposed project would construct a passenger rail station and supporting siding track in the City of Elk Grove.

Reviewing Agencies Checklist

Lead Agencies may recommend State Clearinghouse distribu If you have already sent your document to the agency please	
x Air Resources Board	Office of Historic Preservation
Boating & Waterways, Department of	Office of Public School Construction
California Emergency Management Agency	Parks & Recreation, Department of
x California Highway Patrol	Pesticide Regulation, Department of
Caltrans District # 3	× Public Utilities Commission
Caltrans Division of Aeronautics	Regional WQCB # 5S
Caltrans Planning	Resources Agency
Central Valley Flood Protection Board	Resources Recycling and Recovery, Department of
Coachella Valley Mtns. Conservancy	S.F. Bay Conservation & Development Comm.
Coastal Commission	San Gabriel & Lower L.A. Rivers & Mtns. Conservancy
Colorado River Board	San Joaquin River Conservancy
Conservation, Department of	Santa Monica Mtns. Conservancy
Corrections, Department of	State Lands Commission
Delta Protection Commission	SWRCB: Clean Water Grants
Education, Department of	SWRCB: Water Quality
Energy Commission	SWRCB: Water Rights
x Fish & Game Region # 2	Tahoe Regional Planning Agency
Food & Agriculture, Department of	x Toxic Substances Control, Department of
Forestry and Fire Protection, Department of	water Resources, Department of
General Services, Department of	
Health Services, Department of	x Other: California State Transportation Authority
Housing & Community Development	X Other: Sacramento Area Council of Governments
x Native American Heritage Commission	
Local Public Review Period (to be filled in by lead agency Starting Date August 4, 2021	Ending Date September 3, 2021
Lead Agency (Complete if applicable):	
Consulting Firm: LSA	Applicant: San Joaquin Regional Rail Commission
Address: 1504 Eureka Road, Suite 310	Address: 949 E. Channel Street
City/State/Zip: Roseville, CA 95661	City/State/Zip: Stockton, CA 95202
Contact: Amanda Durgen	Phone: David Ripperda (209) 944-6275
Phone: 916-905-3937	-
Signature of Lead Agency Representative:	Date:

Authority cited: Section 21083, Public Resources Code. Reference: Section 21161, Public Resources Code.

Notice of Preparation of an Environmental Impact Report Valley Rail Sacramento Extension Project Scoping Period: August 4 – September 3, 2021

DATE: August 4, 2021

TO: Agencies, Organizations, and Interested Parties

FROM: San Joaquin Regional Rail Commission (SJRRC) and San Joaquin Joint Powers Authority (SJJPA)

SUBJECT: Notice of Preparation of an Environmental Impact Report

NOTICE IS HEREBY GIVEN that SJRRC and SJJPA intend to jointly prepare an Environmental Impact Report (EIR) consistent with requirements under the California Environmental Quality Act (CEQA). The purpose of the EIR is to evaluate the environmental issues associated with the proposed improvements included in the Elk Grove Station Project (Project). SJRRC will serve as the lead agency under CEQA for the EIR.

The purpose of this Notice of Preparation (NOP) is to notify agencies, organizations, and individuals that SJRRC and SJJPA plan to prepare the EIR and to request input on the scope of the environmental analysis to be performed and the alternatives to be considered. SJRRC invites comments on the scope and context of the environmental information from all relevant public agencies that are germane to each agency's statutory responsibilities with regard to the Project. We are also requesting interested individuals' or organizations' views on the scope of the environmental document.

A. Scoping Period

Written responses and comments on the scope of the Elk Grove Station Project will be accepted until 6:00 PM on Friday, September 3, 2021.

Comments may be sent via email to elkgrovestation@gmail.com, or via mail to:

San Joaquin Regional Rail Commission Attn: Elk Grove Station Project NOP 949 E. Channel Street Stockton, CA 95202

Please include "Elk Grove Station Project NOP" in the subject heading for emailed comments. Public scoping meetings are scheduled for the times and dates listed below.

B. Scoping Meetings

A virtual public scoping meeting will be held for the Project on August 26, 2021 at 5:30 p.m. and will be accessible at: bit.ly/ElkGroveStation

The scoping meeting will provide an opportunity for the lead agency (SJRRC) to provide further details on the Project and to give interested agencies, organizations, and individuals an opportunity to comment on the scope and content of the EIR.

C. Project History

SJJPA, which manages the Amtrak San Joaquins passenger rail service, and SJRRC, which owns and operates the Altamont Corridor Express (ACE) passenger rail service, are jointly undertaking the planning, design, and environmental review of the Elk Grove Station Project. In March 2020, the SJJPA and SJRRC released the Valley Rail Sacramento Extension Project Draft EIR, which analyzed the extension of passenger rail service to new markets in San Joaquin and Sacramento counties. While the

March 2020 Draft EIR evaluated six new station sites, including a proposed station site just south of Cosumnes River Boulevard that would serve the Elk Grove community (North Elk Grove Station), during project approval, SJJPA and SJRRC removed the North Elk Grove Station in unincorporated Sacramento County from further consideration, and the station site was not part of the project Final EIR certified by the SJRRC on October 2, 2020. SJRRC and SJJPA have continued coordination efforts with the City of Elk Grove to determine a new station site that would serve the Elk Grove community. Those discussions resulted in the identification of the currently proposed station location.

D. Project Location

As shown in the attached Project Location Map, the Project study area is located in the City of Elk Grove, Sacramento County, California and extends along an alignment from just south of Elk Grove Boulevard at the southern limits and Simms Road at the northern limits. The proposed surface parking lot for the Elk Grove Station would be constructed on a 3.0-acre site fronting Dwight Road north of the intersection of Dwight Road and Laguna Boulevard. The site currently serves as an RV parking lot for an adjacent self-storage facility at the corner of the intersection of Dwight Road and Laguna Boulevard.

Project Location Map

See attached.

E. Project Objectives

The primary objectives of the Project are to expand passenger rail service to the Elk Grove community, increase passenger rail ridership; provide transit connections; alleviate traffic congestion, improve regional air quality, and reduce greenhouse gas (GHG) emissions; and to support local and regional land use development plans and policies.

F. Project Description

The proposed project would require the construction of up to a 10,000-foot-long siding track to accommodate the operational requirements UPRR needs to allow passenger service to run in this corridor. The proposed siding track would start just north of Big Horn Boulevard and extend just south of Elk Grove Boulevard. The project also involves the removal and replacement of approximately 3,900 feet of existing UPRR mainline track between Laguna Boulevard and Big Horn Boulevard to accommodate construction of the station platform between the UPRR mainline track and rail siding track.

The proposed station platform would be located along the existing UPRR Sacramento Subdivision, which is the rail line that extends from Marysville in the north and Stockton in the south. Access to the station platform from the adjacent surface parking lot would be provided by a pedestrian overcrossing. Access to the parking lot on the west side of the UPRR corridor would be via a new signalized intersection along Dwight Road. The station platform, pedestrian overcrossing, and surface parking lot would be designed in compliance with Americans with Disabilities Act (ADA) regulations and applicable federal transportation standards. The proposed station platform would be approximately 30 feet wide and 955 feet in length. The station platform would also include passenger amenities, such as passenger shelters, benches, lighting, security cameras, signage, ticketing machines, bicycle storage facilities, landscaping, and emergency call boxes.

The proposed station site would also include construction of a surface parking lot providing approximately 180 parking spaces (8 of which are reserved for handicap parking) and 4 bus bays. Parking lot access would be via a new signalized intersection along Dwight Road.

The project would include a pedestrian overcrossing with stairs and elevators at each end of the pedestrian overcrossing (approximately 22 feet above existing grade of the parking lot) providing access from the surface parking lot to the passenger platform. The pedestrian overcrossing would maintain clearance for maintenance vehicles that access the drainage channel adjacent to the UPRR corridor and would include minimum 10-foot high railing on both sides of the pedestrian overcrossing. The bottom of the pedestrian overcrossing would be designed to maintain at least 23-foot-4-inch clearance over the UPRR tracks.

The project would install concrete crash barriers around the base of the bridge columns next to the proposed rail tracks at both Elk Grove Boulevard and Laguna Boulevard.

Existing culverts within UPRR right-of-way along the limits of the proposed rail siding would be extended, where needed, to accommodate the planned improvements. Existing drainage facilities in the surface parking lot area would be modified, where needed, to accommodate surface improvements that could include raised curb, curb and gutter, sidewalks, medians, and new driveway connecting to Dwight Road. Existing drainage facilities along Dwight Road would be modified, where needed, to accommodate the new signalized intersection at the entrance to the surface parking lot.

The proposed project would include full right-of-way acquisition of APN 119-1540-021 for development of the proposed surface parking lot. Partial right-of-way acquisition and easements may also be required from private right-of-way (APN 119-1540-010), in which the drainage channel is located to the west of the UPRR corridor.

For additional detail of the proposed Project, refer to the Initial Study attached to this NOP.

G. Potential Environmental Effects

The lead agency has initially determined that the following topics will be included for evaluation in the EIR: Air Quality, Noise and Vibration, and Transportation. The EIR will consider both temporary construction-period and permanent impacts.

The EIR will also include a cumulative impact analysis of the impacts of the project in combination with other planned railway projects, transportation improvements, and applicable land use plans and projects along the project corridor. SJRRC and SJJPA are seeking comments from agencies, stakeholders, and the public regarding the environmental effects and potential alternatives to be analyzed in the EIR.

H. Alternatives

As required by CEQA, the EIR will consider a reasonable range of alternatives in addition to the Project. At a minimum, the EIR will also consider a No Build Alternative. SJRRC and SJJPA are seeking comments from agencies, stakeholders, and the public regarding feasible alternatives for evaluation in the EIR. After consideration of input from project scoping and development of environmental analysis of the Project, SJRRC and SJJPA will consider the need for analysis of additional alternatives. Only alternatives that are feasible, meet the project objectives, and reduce one or more significant environmental impacts of the Project will be analyzed in detail. Alternatives that are infeasible, that do not meet the project objectives, or that do not reduce one of more significant environmental impacts of the Project will be discussed in the EIR but will not be analyzed in detail as allowed by the requirements of CEQA.

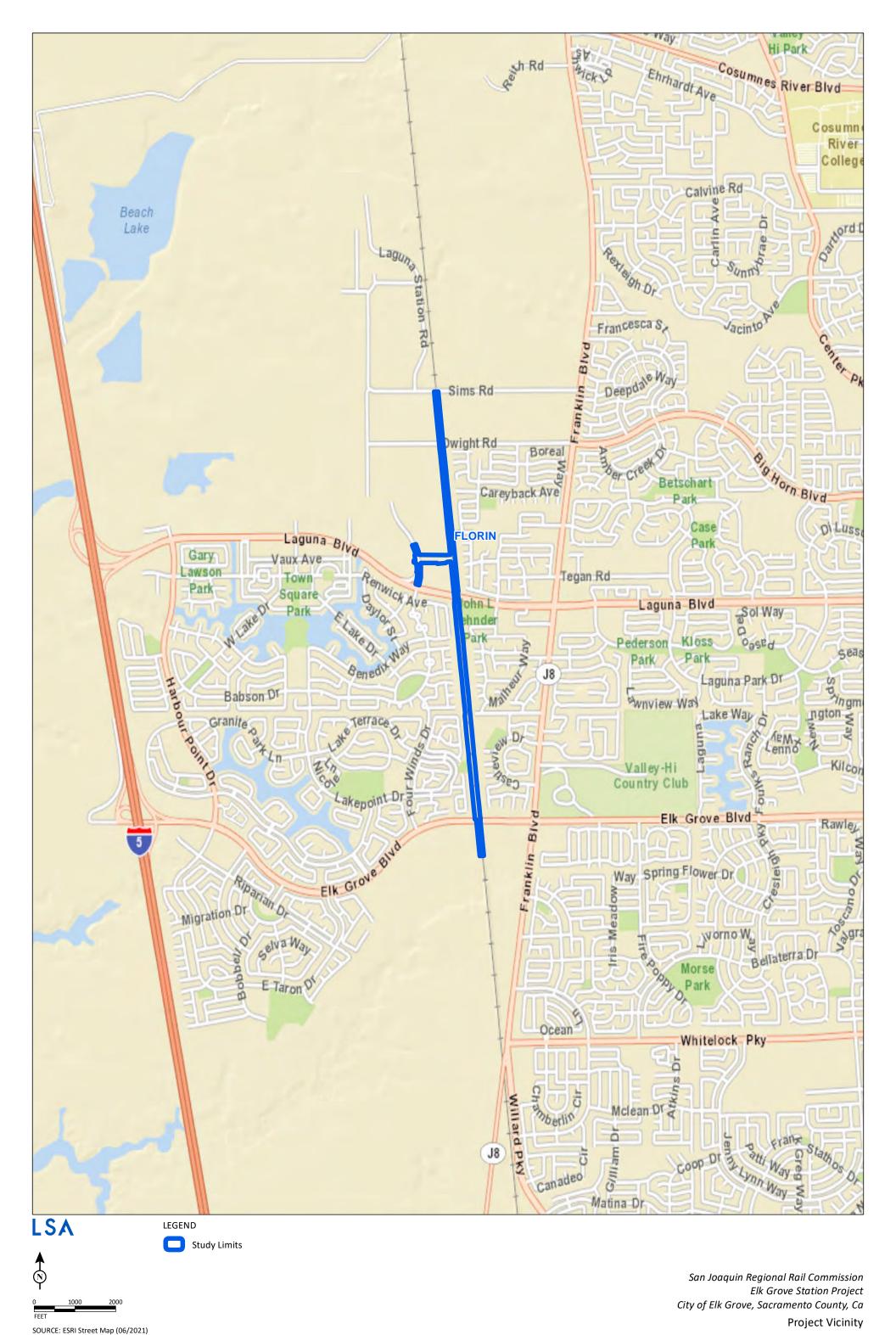
I. Environmental Review Process

Following completion of the 30-day NOP public review period, SJRRC and SJJPA will incorporate relevant information into the Draft EIR, including results of public scoping and technical studies. The Draft EIR will be circulated for public review and comment for a 45-day public review period.

SJRRC and SJJPA requests that any potential Responsible or Trustee Agency responding to this notice do so in a manner consistent with CEQA Guidelines Section 15082(b). All parties that have submitted their names and email or mailing addresses will be notified as part of this CEQA review process. A copy of the NOP can be found on the active applications website at https://acerail.com/valley_rail/. If you wish to be placed on the mailing list or need additional information, please submit your request to elkgrovestation@gmail.com.

Attachments:

Project Location Map Initial Study



DRAFT

INITIAL STUDY

ELK GROVE STATION PROJECT ELK GROVE, CALIFORNIA





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DRAFT

INITIAL STUDY

ELK GROVE STATION PROJECT ELK GROVE, CALIFORNIA

Submitted to:

San Joaquin Regional Rail Commission 949 E. Channel Street Stockton, California 95202

Prepared by:

LSA 1504 Eureka Road, Suite 310 Roseville, California 95661 916.772.7450

Project No. MKT2104



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LIST OF ABBREVIATIONS AND ACRONYMS

AB Assembly Bill

ACE Altamont Corridor Express
APN Assessor's Parcel Number
BMP best management practice

CAP Climate Action Plan

CARB California Air Resources Board

CDFW California Department of Fish and Wildlife

CEC California Energy Commission

CESA California Endangered Species Act

CEQA California Environmental Quality Act

CGS California Geological Survey

CHRIS California Historical Resources Information System

CO₂ carbon dioxide

CRHR California Register of Historical Resources

CWA Clean Water Act

EIR Environmental Impact Report

FESA Federal Endangered Species Act

GHG greenhouse gas(es)

GWP Global Warming Potential
HCP Habitat Conservation Plan

ICCTA Interstate Commerce Commission Termination Act

NCIC North Central Information Center

NMFS National Marine Fisheries Service

NPDES National Pollutant Discharge Elimination System

OHWM Ordinary high-water mark

OSHA Occupational Safety and Health Administration

PCWQCA Porter-Cologne Water Quality Control Act

PM₁₀ particulate matter less than 10 microns in diameter
PM_{2.5} particulate matter less than 2.5 microns in diameter



proposed project Elk Grove Station Project

RCRA Resource Conservation and Recovery Act

RWQCB Regional Water Quality Control Board

SAVA Sacramento Academic & Vocational Academy

SB Senate Bill

SJJPA San Joaquin Joint Powers Authority

SJRRC San Joaquin Regional Rail Commission

SMAQMD Sacramento Metropolitan Air Quality Management District

SMUD Sacramento Municipal Utility District
SWPPP Stormwater Pollution Prevention Plan
SWRCB State Water Resources Control Board

U.S. United States

UPRR Union Pacific Railroad

USACE U.S. Army Corps of Engineers
USFWS U.S. Fish and Wildlife Service

VELB Valley elderberry longhorn beetle

VMT vehicle miles traveled

1.0 PROJECT INFORMATION

The following is an Initial Study/Environmental Checklist for the proposed Elk Grove Station Project (project). The proposed project would result in the development of a new passenger rail station in the City of Elk Grove. Overall station improvements include the construction of a new platform, a new surface parking lot, a pedestrian overcrossing linking the station to the surface parking lot, removal of approximately 3,900 feet of existing Union Pacific Railroad (UPRR) track, construction of approximately 3,900 feet of new UPRR mainline track, and up to 10,000 linear feet of rail siding. An overview of the project site location is followed by a description of the proposed improvements and a summary of requested approvals and entitlements. This checklist will be used to identify areas to be further discussed in an Environmental Impact Report (EIR).

1. Project Title:

Elk Grove Station Project

2. Lead Agency Name and Address:

San Joaquin Regional Rail Commission 949 E. Channel Street Stockton, California 95202

3. Contact Person and Phone Number:

David Ripperda (209) 944-6275

4. Project Location:

The project study area is located in the City of Elk Grove, Sacramento County, California and extends along an alignment from just south of Elk Grove Boulevard at the southern limits and Simms Road at the northern limits (Figure 1).

The proposed project would be located on portions of 5 parcels: Assessor's Parcel Number (APN) 119-1540-021 (proposed surface parking lot); APN 119-1540-010 (proposed pedestrian overcrossing); and APNs 119-0120-006, 119-0120-008, 119-0120-014, and 132-0020-002 (proposed platform, rail siding, and proposed UPRR mainline track). Through the project area, the existing UPRR corridor runs generally north-south. The project study area is approximately 2.25 miles along the UPRR corridor, and the GPS coordinates of the northern and southern termini are latitude 38° 26' 16.0476" N and longitude 121° 27' 28.7712" W to latitude 38° 24' 17.6724" N and longitude 121° 27' 14.6916" W.

The proposed surface parking lot for the Elk Grove Station would be constructed on an approximately 3.0-acre site fronting Dwight Road north of the intersection of Dwight Road and Laguna Boulevard. The site currently serves as an RV parking lot for an adjacent self-storage facility at the corner of the intersection of Dwight Road and Laguna Boulevard.



5. Project Sponsor:

San Joaquin Regional Rail Commission (SJRRC) and San Joaquin Joint Powers Authority (SJJPA)

6. General Plan Designation:

Station Site = Light Industrial; Rail = Public Services

7. Zoning:

Light Industrial

8. Description of Project:

The SJJPA and the SJRRC, which manage the Amtrak San Joaquins and the Altamont Corridor Express (ACE), respectively, are jointly undertaking the planning, design, and environmental review of the Elk Grove Station Project (proposed project). The proposed project would construct a passenger rail station and supporting siding track in the City of Elk Grove (Figure 1).

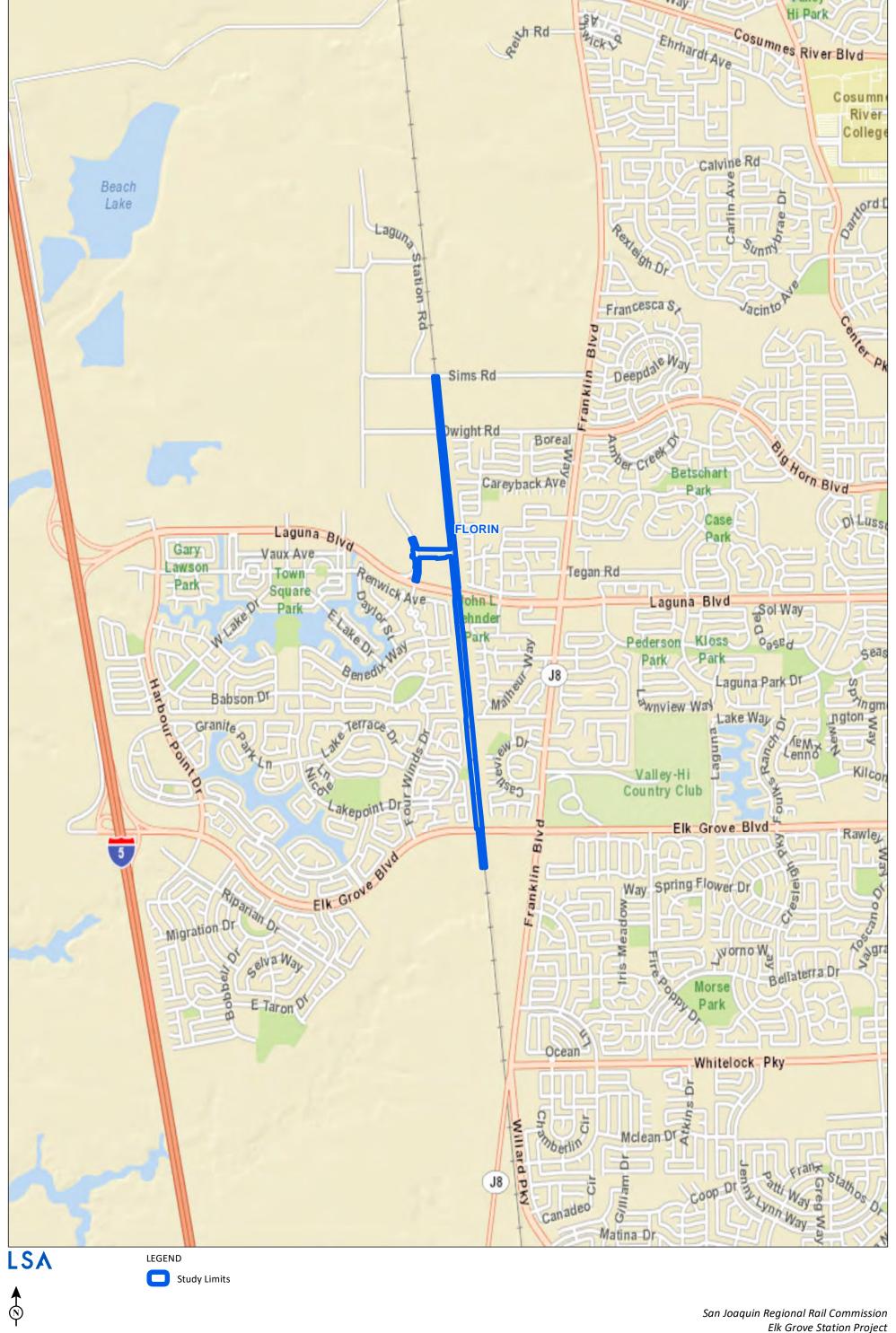
Background

In March 2020, the SJJPA and SJRRC released the Valley Rail Sacramento Extension Project Draft Environmental Impact Report (EIR), which analyzed the extension of passenger rail service to new markets in San Joaquin and Sacramento counties. While the March 2020 Draft EIR evaluated six new station sites, including a proposed station site just south of Cosumnes River Boulevard that would serve the Elk Grove community (North Elk Grove Station), during project approval, SJJPA and SJRRC removed the North Elk Grove Station in unincorporated Sacramento County from further consideration, and the station site was not part of the project Final EIR certified by the SJRRC on October 2, 2020. SJRRC and SJJPA have continued coordination efforts with the City of Elk Grove to determine a new station site that would serve the Elk Grove community. Those discussions resulted in the identification of the currently proposed station location, which is discussed below.

As discussed on Page 1-2 of the Valley Rail Sacramento Extension Project Final EIR (SJRRC and SJJPA 2020), "Final approval of a future Elk Grove Station at a site agreed to by all interested parties will be subject to a separate, stand-alone California Environmental Quality Act (CEQA) document that will be circulated for public review and comment at a later date." The Elk Grove Station Project EIR will evaluate the proposed station and supporting rail siding that has been identified by SJJPA, SJRRC, the City of Elk Grove, and other stakeholders.

Independent Utility

The SJRRC has considered whether the proposed project has "independent utility," meaning it would be constructed and could operate absent the construction of other projects in the project area. The proposed project would serve the Elk Grove community and would not depend on the other stations and various track improvements analyzed in the Valley Rail Sacramento Extension Project EIR. The proposed project could be constructed and operate independently; therefore, the proposed project can be considered as a separate single complete project with independent public and economic utility.





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Proposed Project Improvements

The proposed project would require the construction of up to a 10,000-foot-long siding track to accommodate the operational requirements UPRR needs to allow passenger service to run in this corridor. The proposed siding track would start just north of Big Horn Boulevard and extend just south of Elk Grove Boulevard. The project also involves the removal and replacement of approximately 3,900 feet of existing UPRR mainline track between Laguna Boulevard and Big Horn Boulevard to accommodate construction of the station platform between the UPRR mainline track and rail siding track.

The proposed station platform would be located along the existing UPRR Sacramento Subdivision, which is the rail line that extends from Marysville in the north and Stockton in the south. Access to the station platform from the adjacent surface parking lot would be provided by a pedestrian overcrossing. Access to the parking lot on the west side of the UPRR corridor would be via a new signalized intersection along Dwight Road. The station platform, pedestrian overcrossing, and surface parking lot would be designed in compliance with Americans with Disabilities Act (ADA) regulations and applicable federal transportation standards. The proposed station platform would be approximately 30 feet wide and 955 feet in length. The station platform would be unattended (i.e., there would be a lack of human presence) and would include passenger amenities, such as passenger shelters, benches, lighting, security cameras, signage, ticketing machines, bicycle storage facilities, landscaping, and emergency call boxes.

The proposed station site would also include construction of a surface parking lot, which would accommodate handicap parking and 4 bus bays. Parking lot access would be via a new signalized intersection along Dwight Road.

The project would include a pedestrian overcrossing with stairs and elevators at each end of the pedestrian overcrossing (approximately 22 feet above existing grade of the parking lot) providing access from the surface parking lot to the passenger platform. The pedestrian overcrossing would maintain clearance for maintenance vehicles that access the drainage channel adjacent to the UPRR corridor and would include minimum 10-foot high railing on both sides of the pedestrian overcrossing. The bottom of the pedestrian overcrossing would be designed to maintain at least 23-foot-4-inch clearance over the UPRR tracks.

The project would install concrete crash barriers around the base of the bridge columns next to the proposed rail tracks at both Elk Grove Boulevard and Laguna Boulevard.

Existing culverts within UPRR right-of-way along the limits of the proposed rail siding would be extended, where needed, to accommodate the planned improvements. Existing drainage facilities in the surface parking lot area would be modified, where needed, to accommodate surface improvements that could include raised curb, curb and gutter, sidewalks, medians, and new driveway connecting to Dwight Road. Existing drainage facilities along Dwight Road would be modified, where needed, to accommodate the new signalized intersection at the entrance to the surface parking lot.

The proposed project would include full right-of-way acquisition of APN 119-1540-021 for development of the proposed surface parking lot. Partial right-of-way acquisition and easements may also be required from private right-of-way (APN 119-1540-010), in which the drainage channel is located to the west of the UPRR corridor.

Conceptual Service Plan

ACE currently operates four westbound trains weekday mornings from Stockton to San Jose, and four eastbound trains weekday afternoons from San Jose to Stockton. Currently, ACE does not offer weekend service.

Amtrak's San Joaquins service was reduced due to the COVID pandemic, but SJJPA anticipates reinstating the service by spring of 2022. When operating, the San Joaquins service includes trains between Sacramento and Bakersfield (two daily southbound trains and northbound trains), and between Oakland and Bakersfield (five daily southbound and northbound trains).

The approved Valley Rail Sacramento Extension Project includes the addition of both Amtrak San Joaquins trains and ACE trains along the Sacramento Subdivision. The proposed project does not include changes in train frequency but would introduce service to the Elk Grove community consistent with the preliminary conceptual service plan described in the Valley Rail Sacramento Extension Project EIR. The preliminary conceptual service plan as defined in the Valley Rail Sacramento Extension Project EIR is described below.

San Joaquins

As described in Chapter 2 of the Valley Rail Sacramento Extension Project EIR, implementation of that project includes two new round trip San Joaquins operating on the Sacramento Subdivision. Additional trips are not proposed as part of the proposed station project; however, the proposed project would provide a stop that would serve the Elk Grove community.

ACE

As described in Chapter 2 of the Valley Rail Sacramento Extension Project EIR, implementation of that project also includes an extension of existing ACE service to the proposed Natomas/Sacramento Airport Station. Additional trips are not proposed as part of the proposed station project; however, the proposed project would offer a stop that would serve the Elk Grove community.

Construction Methods

Staging Area

The proposed surface parking lot would serve as the project staging area during construction of the proposed station platform, surface parking lot, and proposed track work.

Track

Construction of new track would include grading for the track subgrade with graders and excavators, and the placement of subballast and ballast. Concrete or wood ties would then be

laid out. Continuous Welded Rail (1,000-foot-long rail strings) are welded together and clipped to ties. The ballast is tamped with on-track machinery along with the final adjustments to the alignment and profile. Construction of new main track in the UPRR right-of-way would occur in segments; once the subgrade, ballast, and main track are installed for one segment, construction would continue down the alignment. The duration of construction activities for a new track generally lasts approximately 4 to 12 months.

Track construction could conflict with existing utility lines, and these lines would be relocated or protected in place. SJRRC would coordinate with the utility providers to minimize conflicts and potential disruptions.

Station

Station improvements would include the construction of new station facilities, such as a station platform, station tracks, and passenger amenities, a surface parking lot, a pedestrian overcrossing between the parking area and station platform, and a new signalized intersection on Dwight Road at the entrance to the surface parking lot.

Construction activities associated with station platforms include clearing and grubbing, rough grading, structural excavation for walls, forming and pouring concrete for the walls, access stairs and ramps, platform surface, installation of signage, shelters, lighting, security, railings, benches, and trash receptacles.

Construction activities associated with station tracks around the platform would be similar to track work activities described above.

Construction activities associated with surface parking areas would include development of a new signalized intersection on Dwight Road, modified striping and signage along Dwight Road to accommodate the new signal, clearing and grubbing, rough and final grading for the new access area between Dwight Road and the surface parking area, installation of drainage and utilities, installation of subbase and paving, installation of curb, curb and gutter, sidewalk, raised medians, pedestrian ramps, landscaping, installation of lighting and security, and installation of signage and striping.

Construction activities associated with the pedestrian overcrossing includes clearing and grubbing, rough grading, installation of utilities, installation of cast-in-drilled-hole or driven piles, installation of stair footings, placing column reinforcing steel, pouring structural concrete for columns, placing falsework for stairs and abutments, pouring structural concrete for stairs and abutments, placing reinforcing steel and pouring structural concrete for decks, placing handrails for stairs, placing railing for the elevated section of the overcrossing, installation of elevators, installation of signage, and installation of lighting.

To minimize the creation of new sources of light and glare, all artificial outdoor lighting would be limited to safety and security requirements, designed using Illuminating Engineering Society's design guidelines, and in compliance with International Dark-Sky Association approved fixtures. All lighting would be designed to have minimum impact on the surrounding environment; and

would use downcast, cut-off—type fixtures that direct the light only towards objects requiring illumination. Shielding would be used, where needed, to ensure light pollution is minimized. Lights would be installed at the lowest allowable height and cast low-angle illumination, while minimizing incidental light spill onto adjacent properties, open spaces, or backscatter into the nighttime sky. The lowest allowable illuminance level would be used for all lighted areas, and the amount of nighttime lights needed to light an area would be minimized to the highest degree possible. Light fixtures would have non-glare finishes that would not cause reflective daytime glare. Lighting would be designed for energy efficiency and have daylight sensors or be timed with an on/off program. Lights would provide good color rendering with natural light qualities with the minimum intensity feasible for security, safety, and personnel access. Lighting, including light color rendering and fixture types, would be designed to be aesthetically pleasing.

Station construction could conflict with existing utility lines, and these lines would be relocated or protected in place. SJRRC would coordinate with the utility providers to minimize conflicts and potential disruptions.

Schedule

Construction of the proposed project is anticipated to occur over a 14-month duration. The proposed station is anticipated to be completed in 14 months, while the proposed siding and relocated UPRR track is anticipated to be completed in 8 months. The construction of the proposed station platform and proposed siding and relocated UPRR track is anticipated to occur in parallel.

9. Surrounding Land Uses and Setting:

The proposed station site includes the UPRR corridor. North of Laguna Boulevard up to Big Horn Boulevard, the UPRR corridor is surrounded by light industrial uses to the west and residential uses to the east. There is an existing stormwater detention basin to the south of the proposed surface parking lot area and a drainage channel on the west side of the UPRR corridor beginning north of Laguna Boulevard. North of Big Horn Boulevard to Sims Road within the limits of Sacramento County are lands subject to the South Sacramento County Habitat Conservation Plan. The City of Elk Grove is not a party to the South Sacramento County HCP, and the proposed project does not include lands that are within the HCP limits. Between Elk Grove Boulevard and Laguna Boulevard, the UPRR corridor is surrounded primarily by low-density residential uses and a resource management and conservation/parks and open space use to the east and west (John L. Zehnder Park). South of Elk Grove Boulevard, the UPRR corridor is surrounded by open space to the east and west.

10. Other Public Agencies Whose Approval is Required (e.g., permits, financial approval, or participation agreements):

The Project may require the following approvals and permits from agencies including:

• Federal Railroad Administration: Potential National Environmental Policy Act review and approval if federal funding is available for the project.

- U.S. Army Corps of Engineers: Permit for effects on wetlands and other waters of the United States under Section 404 of the Clean Water Act (CWA).
- U.S. Fish and Wildlife: Concurrence of effects on listed terrestrial wildlife and plant species under ESA Section 7 consultation process; issuance of a biological opinion.
- California State Transportation Authority: Potential source of funding.
- California Department of Fish and Wildlife: Permits for the placement of structures affecting waterways under Section 1602 streambed alteration agreement.
- California Department of Toxic Substances: Review of worker health and safety plan.
- California Public Utilities Commission: Approvals required for rail crossing improvements.
- Regional Water Quality Control Board: Permits under the CWA Section 401 water quality certification/waste discharge requirements for placement of structures affecting waterways, and under the Porter-Cologne Water Quality Control Act.
- State Water Resources Control Board (SWRCB): General construction activity stormwater permit under Section 402 National Pollutant Discharge Elimination System (NPDES).
- Sacramento Area Council of Governments: Funding coordination.
- City of Elk Grove: Encroachment permit for construction in city right-of way. Use and building permits for improvements outside rail right-of-way.
- 11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resource Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?

SJRRC requested a Sacred Lands File search from the Native American Heritage Commission on April 5, 2021. Pursuant to AB 52, SJRRC contacted the 11 tribal representatives on the list on June 3, 2021. To date, SJRRC has received no responses from tribal representatives. In the event that the tribal representatives express interest in the project and/or the project area, SJRRC will coordinate with the tribes to address any concerns.

2.0 ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist in Chapter 3.0. ☐ Aesthetics ☐ Agriculture and Forestry Resources □ Air Quality ☐ Biological Resources ☐ Cultural Resources ☐ Energy ☐ Geology/Soils ☐ Greenhouse Gas Emissions ☐ Hazards & Hazardous Materials ☐ Hydrology/Water Quality ☐ Land Use/Planning ☐ Mineral Resources ☐ Public Services ☐ Population/Housing ☐ Recreation ☐ Tribal Cultural Resources ☐ Utilities/Service Systems ☐ Wildfire 2.1 DETERMINATION On the basis of this initial evaluation: I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared. I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared. 💢 I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required. ☐ I find that the proposed project MAY have a "Potentially Significant Impact" or "Potentially Significant Unless Mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed. I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required. 07/30/2021



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3.0 CEQA ENVIRONMENTAL CHECKLIST

3.1 AESTHETICS

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

3.1.1 Impact Analysis

a. Would the project have a substantial effect on a scenic vista?

According to the City of Elk Grove General Plan Draft EIR (City of Elk Grove 2018a), there are currently no officially designated scenic vistas in the City of Elk Grove. The proposed surface parking lot that would support the station would be located on a parcel designated as light industrial, while the proposed pedestrian overcrossing, rail siding, and station platform would be located in the existing rail corridor.

Construction Impacts

During construction, contractors would use the staging area (proposed surface parking lot) and standard industry equipment such as excavators, pavers, drill rigs, cranes, and dump and concrete trucks to support the construction of the project. None of the equipment would have any height or scale that would block any vistas, and no sensitive viewers exist in the project footprint. Though residential uses are adjacent to the existing rail corridor, construction equipment would not block views of scenic vistas. Therefore, construction impacts would not have a substantial effect on a scenic vistas. This impact would be less than significant.

Operational Impacts

To the north of the proposed surface parking lot is an approximately 16-foot-tall, light industrial warehouse building and to the south is a fenced self-storage facility both of which would screen views of the proposed surface parking lot and other project features from Dwight Road. The



proposed support structures for the Elk Grove Station (pedestrian overcrossing, ticket kiosks, etc.) would be one-story (a maximum of 38 feet) tall to provide at minimum 23-foot-4-inch clearance over UPRR tracks and would not block any views of the mountain ranges to the west or east. The poles for security lighting in the platform and in the parking lot would be taller than the one-story support buildings but would be spaced throughout the project such that no vistas would be blocked. Therefore, operational impacts would not have a substantial effect on a scenic vista and no impact would occur.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

The proposed surface parking lot site currently serves as a recreational vehicle parking lot. The proposed pedestrian overcrossing, station platform, and the proposed track work would be located in the existing rail corridor. There are no significant rocks, outcroppings, or trees within the project footprint. There is one Officially Designated State scenic highway located in Sacramento County (River Road from State Route 160 at the Isleton Bridge to State Route 160 at the Paintersville Bridge), which is approximately 10 miles southwest of the project and is not visible from the project area. There are no historic buildings within the proposed project area. No impact would occur.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

The proposed project is located in an urbanized area surrounded by light industrial, low-density residential, and park uses. Project improvements within the UPRR right-of-way are exempt from City of Elk Grove building and zoning codes and other land use ordinances. However, the surface parking lot would be subject to the City's zoning code. The proposed surface parking lot is zoned light industrial and proposed lighting, parking capacity, and structure heights and setbacks would be consistent with the City's zoning code. This impact would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

d. Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Construction activities would occur primarily during the daytime hours. However, nighttime lighting during the project's construction phase may be required for proposed track improvements and roadway modifications along Dwight Road to avoid conflicts with rail traffic on the existing rail lines

and minimize impacts to traffic along Dwight Road. Residences in the vicinity of the proposed improvements are set back approximately 150 feet from the existing UPRR tracks and areas of proposed track improvements and are screened from view by concrete block walls or tall trees. Nighttime lighting may require the use of high-intensity lighting directed at the work area, which could result in light spillover resulting in sleep disruption for nearby residents. However, construction-related lighting would be directional, short-term, and screened by existing 6-foot fences on the residential property lines. This impact would be less than significant.

The new surface parking lot would be constructed in an urban area (where nighttime lighting currently exists). The proposed surface parking lot, pedestrian overcrossing, and station platform would require nighttime lighting during operation of the project. Nighttime lighting could result in light spillover that causes glare and obscures views of the night sky, and that could introduce a potential source of sleep disruption for nearby residents. Furthermore, daytime glare could be caused by the use of reflective surfaces such as shiny coatings on the tops of pedestrian shelters at the new station platform.

However, as discussed in Section 1.0 of this Initial Study, to minimize the creation of new sources of light and glare, all artificial outdoor lighting would be limited to safety and security requirements, would be designed using Illuminating Engineering Society's design guidelines, and would be in compliance with International Dark-Sky Association approved fixtures. Shielding would be used, where needed, to ensure light pollution is minimized. Therefore, lights would be installed at the lowest allowable height and cast low-angle illumination while minimizing incidental light spill onto adjacent properties and open spaces, and minimizing backscatter into the nighttime sky. The lowest allowable illuminance level would be used for all lighted areas, and the amount of nighttime lights needed to light an area would be minimized to the highest degree possible. Light fixtures would have non-glare finishes that would not cause reflective daytime glare. Lighting would be designed for energy efficiency and have daylight sensors or be timed with an on/off program.

Parking lot lighting would be designed to meet safety requirements. Lights would provide good color rendering with natural light qualities, with the minimum intensity feasible for security, safety, and personnel access. Lighting, including light color rendering and fixture types, would be designed to be aesthetically pleasing. Furthermore, anti-reflective coatings would be used on structures, such as the roofs of pedestrian shelters at the new station site, to reduce daytime glare. With incorporation of the provisions to reduce light spillover described above, nighttime lighting at the station site would not result in sleep disruption at houses in the vicinity of the proposed station. Therefore, operation of the proposed project would not create a source of substantial light or glare that would adversely affect daytime or nighttime views in the area or result in sleep disruption for adjacent residents, and the proposed project's operational impact would be less than significant.

3.2 AGRICULTURE AND FORESTRY RESOURCES

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and the forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non- agricultural use?				
 b. Conflict with existing zoning for agricultural use, or a Williamson Act contract? c. Conflict with existing zoning for, or cause rezoning of, forest 			\boxtimes	
land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?				
d. Result in the loss of forest land or conversion of forest land to non-forest use?				\boxtimes
e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?				

3.2.1 Impact Analysis

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

The project area is located primarily in land designated as Urban and Built-Up Land on the California Important Farmland Finder (California Department of Conservation 2018). The land adjacent to the rail corridor in the northern portion of the project area is designated as Farmland of Local Importance, while the land south of Elk Grove Boulevard is designated as Grazing Land. The proposed project would not convert Farmland to a non-agricultural use and no impact would occur.

b. Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

While APNs 119-0120-008-0000, 119-0120-006-0000, 119-0120-014-0000, and 132-0020-002 are zoned AG-80 (an agricultural zoning designation), these parcels house the existing rail line and are devoid of agricultural operations. These parcels are not subject to Williamson Act contracts. The remaining parcels within the project area are zoned Light Industrial and are not subject to Williamson Act contracts. Therefore, this impact would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

c. Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?

The project area is not zoned as forestland, timberland, or a Timberland Production Zone. Therefore, construction and operational impacts that would conflict with existing zoning, or cause rezoning of, forestry resources would not occur.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

The project area does not contain 10 percent native tree cover that would be classified as forestland under Public Resources Code Section 12220(g). Therefore, construction and operational impacts that would result in the loss of forest land or result in the conversion of forest land to non-forest use would not occur.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

As discussed in responses to 3.2.1(a), (c), and (d), the project area does not include Farmland or forest land. The surrounding land uses consist of light industrial, residential, and park uses. Therefore, the project would not involve other changes in the existing environment, which could result in the conversion of farmland to non-agricultural use or conversion of forest land to non-forest use. No impact would occur.

3.3 AIR QUALITY

Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations.

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

3.3.1 Impact Analysis

The proposed project is located in the City of Elk Grove, and is within the jurisdiction of the Sacramento Metropolitan Air Quality Management District (SMAQMD), which regulates air quality in the Sacramento Valley Air Basin. Within the SMAQMD, ambient air quality standards for ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, particulate matter (PM₁₀, PM_{2.5}), and lead have been set by both the State of California and the federal government. The State has also set standards for sulfate and visibility. The SMAQMD is under State non-attainment status for ozone and particulate matter standards (PM₁₀ and PM_{2.5}). The SMAQMD is classified as non-attainment for the federal ozone 8-hour standard and non-attainment for the federal PM_{2.5} 24-hour standard.

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

The SMAQMD prepares plans to attain and maintain compliance with State and national ambient air quality standards, including the Redesignation Substitution for the 1979 1-hour Ozone National Ambient Air Quality Standards for the Sacramento Federal Ozone Nonattainment Area, the Attainment Plan for the 2008 Ozone National Ambient Air Quality Standards, the PM_{2.5} Maintenance Plan and Redesignation Request, the PM₁₀ Implementation/Maintenance Plan and Redesignation Request for Sacramento County, and the 1991 Air Quality attainment Plan (and subsequent Triennial Assessments).

Project-level analysis is required to determine if the proposed project as an individual project would conflict with or obstruct implementation of the applicable air quality plan. The project EIR will include an analysis of both construction and operational emissions that would be estimated using the California Emissions Estimator Model and compared to quantitative thresholds to determine the level of significance of this impact. The SMAQMD has established air quality significance thresholds that can be used by a lead agency to determine whether air quality impacts from implementing

proposed projects will be significant. These thresholds are contained in the SMAQMD's Guide to Air Quality Assessment in Sacramento County and will be used to evaluate the impact from emissions associated implementation of the proposed project. Appropriate project-level mitigation will be proposed, if necessary.

This topic will be evaluated further in the EIR.

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

For the same reason presented above in response 3.3.1(a), potential short-term (i.e., construction) and long-term (i.e., operational) air quality impacts from the implementation of the proposed project will be evaluated. As noted above, the California Emissions Estimator Model will be used to estimate and report in the project EIR the construction and operational emissions that could result from the implementation of the proposed project, and the estimated emissions will be compared to significance thresholds provided by the SMAQMD.

This topic will be evaluated further in the EIR.

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

The proposed project would result in idling trains adjacent to residential receptors which could increase long-term cancer risk in the project vicinity. The EIR will assess the potential increase in risk, utilizing the U.S. Environmental Protection Agency's American Meteorological Society/ Environmental Protection Agency Regulatory dispersion model to determine the pollutant concentrations associated with station train emissions, in conjunction with the California Air Resources Board's (CARB) HARP2 model to determine the associated site-specific potential health risk levels existing residents would be exposed to. In addition, the project EIR will describe whether or not project-related traffic would result in carbon monoxide concentrations in excess of established standards. The project EIR will also evaluate whether the project would have any impacts related to Valley Fever and asbestos.

This topic will be evaluated further in the EIR.



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

Construction of the proposed project would require the use of diesel-fueled equipment and architectural coatings, both of which generate odors. However, these odors would be short-term and temporary and would not be pervasive enough to affect a substantial number of people. Operation of the proposed project would not include any land uses identified by the CARB as being associated with the generation of objectionable odors. The proposed station would not represent a source of odor emissions. Increased passenger rail operations on the tracks that access the station may also increase the potential for generation of odors from locomotive diesel fuel combustion. However, these odors would be intermittent and of short-duration during the loading and unloading of passengers. As such, this impact would be less than significant.

3.4 BIOLOGICAL RESOURCES

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

The project site extends along an approximate 2.1-mile length of existing UPRR track and right-of-way from Simms Road in the north, to just north of the Ehrhardt Channel at the southern terminus, in the City of Elk Grove, Sacramento County, California.

The project site is approximately 36.27 acres, and includes the existing UPRR corridor, adjacent ruderal areas within the UPRR right-of-way, a paved RV storage lot, a segment of Dwight Road where access will be provided to the surface parking lot=, and an unnamed canal between the RV storage lot and the UPRR track. The project site is primarily composed of ruderal grassland habitat along the UPRR track shoulders and right-of way, totaling 18.51 acres. The only other natural community present in the project site is the seasonal wetlands associated with the unnamed canal. Developed areas include the UPRR track, the RV storage lot, and Dwight Road, totaling 17.62 acres (Figure 3.4-1).

The majority of the project site can be characterized as ruderal grassland, totaling 18.51 acres. The vegetation is dominated by a variety of annual grassland species including ripgut grass (*Bromus diandrus*), vetch (*Vicia villosa*), filaree (*Erodium botrys*), rose clover (*Trifolium hirtum*), fiddleneck (*Amsinkia douglasii*), soft chess (*Bromus hordeaceous*), wild radish (*Raphanus raphanus*), ryegrass

(Festuca perinnis), and pineapple weed (Chamomilla suaveolens). A total of 12 blue elderberry shrubs (Sambucus nigra ssp. cerulea) were observed within this community concentrated in mostly the northern and southern ends of the alignment (the location of the elderberry shrubs is shown on Figure 3.4-1). Mature Valley oaks (Quercus lobata) are also present in scattered locations in the central part of the project site. This ruderal community is regularly maintained through both mowing and herbicide application as part of UPRR operations.

One aquatic feature, totaling 0.14 acre, is present in the project site (an unnamed canal). This area was dominated by mugwort (*Artemesia douglasiana*), broad-leaved cattail (*Typha latifolia*) and curly dock (*Rumex crispus*). It is likely that these features would be classified as wetlands pursuant to United States Army Corps of Engineers (USACE) and Regional Water Quality Control Board (RWQCB) guidance. The unnamed canal would also likely be subject to jurisdiction by the USACE, the RWQCB, and the California Department of Fish and Wildlife (CDFW).

Wildlife observed on the project site was limited to regionally common species such as mourning dove (*Zenaida macroura*), meadowlark (*Sturnella neglecta*), red-winged blackbird (*Agelaius phoeniceus*), red-tailed hawk (*Buteo jamaicensis*), yellow-billed magpie (*Pica nutalli*), turkey vulture (*Cathartes aura*), Brewer's blackbird (*Euphagus cyanocephalus*), and red-shouldered hawk (*Buteo lineatus*). California ground squirrel (*Otospermophilus beecheyi*) were also observed along the length of the project site, primarily on the shoulders of the UPRR railroad track where numerous burrows were present. None of the visually inspected burrows within the project site exhibited signs of burrowing owl occupancy.

Additionally, blue elderberry is the host plant for the Valley elderberry longhorn beetle (Desmocerus californicus dimorphus) (VELB) which is federally listed as threatened. The 11 elderberry shrubs located within the project site could provide suitable habitat for this species (no exit holes were identified on any of the shrubs).

The mature Valley oaks in the project site provide suitable nesting habitat for Swainson's hawks (*Buteo swainsoni*), which is state listed as threatened. Additionally, several ornamental trees associated with surrounding urban development would also be considered suitable nesting habitat for Swainson's hawk. The ruderal grasslands along the UPRR corridor is typically too narrow for effective foraging since it is mostly bounded by urban development. However, the open grassland areas adjacent to the project site at the north and south ends of the alignment provide foraging habitat for this species. Therefore, Swainson's hawk could utilize areas within the project site for nesting or foraging. No Swainson's hawks were observed during the April 2021 survey.

The project site has the potential to support a variety of nesting and migratory bird species. However, no nests were observed during the April 2021 field survey.

Regulatory Setting

The proposed project would be subject to the following regulations.

Federal Endangered Species Act (FESA)

Under FESA, it is unlawful to "take any species listed as threatened or endangered". "Take" is defined as to "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to engage in any such conduct." An activity is defined as "take" even if it is unintentional or accidental. Take provisions under FESA apply only to listed fish and wildlife species under the jurisdiction of the U.S. Fish and Wildlife Service (USFWS) and/or National Marine Fisheries Service (NMFS). Consultation with USFWS or NMFS is required if a project "may affect" a listed species.

When a species is listed, the USFWS and/or the NMFS, in most cases, must officially designate specific areas as critical habitat for the species. Consultation with USFWS and/or the NMFS is required for projects that include a federal action or federal funding if the project may affect designated critical habitat.

California Endangered Species Act (CESA)

Under the CESA, it is unlawful to "take" any species listed as rare, threatened, or endangered. Under CESA, "take" means to "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill". CESA take provision apply to fish, wildlife, and plant species. Take may result whenever activities occur in areas that support a listed species. Consultation with CDFW is required if a project will result in "take" of a listed species.

California Fish and Game Code (Breeding Birds)

Section 3503 of the California Fish and Game Code prohibits the take, possession, or needless destruction of the nest or eggs of any bird, except as otherwise provided by the California Fish and Game Code or other regulation.

Waters of the United States and Other Jurisdictional Waters

Army Corps of Engineers

Under Section 404 of the Clean Water Act (CWA), the USACE regulates the discharge of dredged or fill material into waters of the United States (U.S.). Waters of the U.S. are those waters that have a connection to interstate commerce, either direct via a tributary system or indirect through a nexus identified in the USACE regulations. In non-tidal waters, the lateral limit of jurisdiction under Section 404 extends to the ordinary high water mark (OHWM) of a waterbody or, where adjacent wetlands are present, beyond the OHWM to the limit of the wetlands. The OHWM is defined as "that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear natural line impressed on the bank, shelving, changes in the character of the soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding area" (33 CFR 328.3). In tidal waters, the lateral limit of jurisdiction extends to the high tide line or, where adjacent wetlands are present, to the limit of the wetlands.

Wetlands

Wetlands are defined as "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for a life in saturated soil conditions".

Non-wetland Waters

Non-wetland waters essentially include any body of water, not otherwise exempted, that displays an OHWM.

Regional Water Quality Control Board

Under Section 401 of the CWA, the State Water Resources Control Board must certify all activities requiring a 404 permit. The RWQCB regulates these activities and issues water quality certifications for those activities requiring a 404 permit. In addition, the RWQCB has authority to regulate the discharge of "waste" into waters of the State pursuant to the Porter-Cologne Water Quality Control Act (PCWQCA).

California Department of Fish and Wildlife

CDFW, through provisions of Section 1602 of the California Fish and Game Code, is empowered to issue agreements for any alteration of a river, stream, or lake where fish or wildlife resources may be substantially adversely affected. Streams (and rivers) are defined by the presence of a channel bed and banks, and at least an ephemeral or intermittent flow of water. CDFW regulates wetland areas only to the extent that those wetlands are part of a river, stream, or lake as defined by CDFW.

CDFW generally includes, within the jurisdictional limits of streams and lakes, any riparian habitat present. Riparian habitat includes willows, cottonwoods, and other vegetation typically associated with the banks of a stream or lake shoreline. In most situations, wetlands associated with a stream or lake would fall within the limits of riparian habitat. Thus, defining the limits of CDFW jurisdiction based on riparian habitat will automatically include any wetland areas. Riparian communities may not fall under USACE jurisdiction unless they are below the OHWM or classified as wetlands.

3.4.2 Impact Analysis

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

Valley Elderberry Longhorn Beetle

As described above, 11 elderberry shrubs, which provide suitable habitat for VELB, occur on the project site. Construction activities associated with the proposed project would result in the removal of up to 11 elderberry shrubs that are located on the existing railroad embankment, which could result in impacts to VELB. Additionally, construction activities in the vicinity of elderberry shrubs

could also result in impacts to VELB. Implementation of Mitigation Measure BIO-1 would reduce potential impacts to VELB to a less than significant level.

Impacts to VELB would constitute take under the FESA, and consultation with USFWS would be required. It is likely the Section 7 consultation would be initiated by the USACE during the Section 404 permitting process.

Western Burrowing Owl

Potentially suitable nesting and foraging habitat for western burrowing owl is present in the ruderal grasslands in the project site. The project would result in impacts to suitable western burrowing owl habitat as a result of Project construction. Implementation of Mitigation Measure BIO-2 would reduce potential impacts to western burrowing owls to a less than significant level.

Swainson's Hawk

As described above, potential nesting and foraging habitat for Swainson's hawk is present in and in the vicinity of the project site. The project would impact suitable Swainson's hawk nesting and foraging habitat as a result of project construction. Implementation of Mitigation Measure BIO-3 would reduce potential impacts to Swainson's hawks to a less than significant level.

Other Nesting Birds

The project could result in the removal of Valley oak trees and associated vegetation in the central portion of the project site as a result of project construction. Disturbance of migratory birds during their nesting season (February 1 to August 31) could result in "take" which is prohibited under Section 3513 of the California Fish and Game Code. The California Fish and Game Code also prohibits take or destruction of bird nests or eggs. Implementation of Mitigation Measure BIO-4 will reduce the potential for impacts to nesting birds to a less than significant level.

These topics (Impacts 1 through 4) will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

No riparian habitat occurs within the project site. However, potential riverine wetlands occur within the unnamed canal in the project site and could be impacted as a result of project implementation. Wetland habitats are considered sensitive under CEQA and may be regulated by the USACE, RWQCB, and/or CDFW if the community is determined to be waters of the U.S. or waters of the State. Implementation of Mitigation Measure BIO-5 will reduce the potential for impacts to wetland riverine wetlands to a less-than-significant level.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.



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

As noted above in response 3.4.1(b), potential riverine wetlands occur within the unnamed canal in the project site, and could be impacted as a result of project implementation. Wetland habitats are considered sensitive under CEQA and may be regulated by the USACE, RWQCB, and/or CDFW if the community is determined to be waters of the U.S. or waters of the State. Implementation of Mitigation Measure BIO-5 will reduce the potential for impacts to wetland riverine wetlands to a less-than-significant level.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

There is no evidence that the plant communities present in the project site support a wildlife movement corridor or wildlife nursery site. The project site is heavily impacted by human activity (ongoing UPRR operations, etc.) so overall use by wildlife is low. Therefore, the project will not impact a wildlife corridor or wildlife nursery site. The project could result in impacts to local wildlife movement but these impacts would be minor and insignificant, and no mitigation would be required.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

The project proponent will comply with the City of Elk Grove's Tree Preservation and Protection ordinance. The City of Elk Grove has adopted regulations for preservation of four types of trees:

- 1. Landmark trees, which are trees specifically identified for protection by the City Council;
- 2. Trees of local importance, which are trees of specific varieties greater than six inches in diameter;
- 3. Secured trees, which are trees that were protected as part of the development process for residential subdivisions and commercial developments; and
- 4. Trees on City property or in the public right-of-way.

The project will not conflict with any other local policies or ordinances protecting biological resources. This impact would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

The project is not located within the coverage area for any adopted or proposed Habitat Conservation Plan (HCP) or Natural Community Conservation Plan. The City of Elk Grove is not a participant in the South Sacramento County HCP. Therefore, the project would not conflict with the provisions of any adopted habitat conservation plans.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

3.4.3 Mitigation Measures

Mitigation Measure BIO-1: The following measures consistent with the provisions of the "Framework for Assessing Impacts to the Valley Elderberry Longhorn Beetle" dated May 2017 (2017 Framework) shall be implemented to reduce potential impacts to VELB to a less than significant level.

- 1. Environmentally Sensitive Area (ESA) fencing will be established along the limits of construction to exclude construction activities from avoided habitat. Activities that may damage or kill an elderberry shrub (e.g., trenching, paving, etc.) may need an avoidance area of at least 20 ft from the drip-line, depending on the type of activity. Trucks and other vehicles will not be allowed to park in, not shall equipment be stored in, an ESA. No storage or dumping of oil, gasoline, or other substances shall be permitted within an ESA. All ESAs will be clearly delimited with yellow caution tape or temporary fencing prior to commencement of construction activities.
- 2. Signs will be installed along the edge of the ESA and will read the following: "This area is habitat of the beetle, a threatened species, and must not be disturbed. This species is protected by the Endangered Species Act of 1973, as amended. Violators are subject to prosecution, fines, and imprisonment." The signs should be clearly readable from a distance of 20 feet and must be maintained for the duration of construction.
- **3.** All temporarily disturbed areas will be restored to approximate pre-construction contours and revegetated, either through hydroseeding or other means, with native species.
- **4.** To prevent fugitive dust from drifting into adjacent habitat, all clearing, grubbing, scraping, excavation, land leveling, grading, cut and fill, demolition activities, or other dust generating activities will be effectively controlled for fugitive dust emissions utilizing application of water or by presoaking.
- **5.** Prior to the start of construction, a qualified biologist will survey for elderberry shrubs within 165 feet of the disturbance area. If the survey documents any shrubs with stem diameter greater than 1 inch that were not identified during the April 2021 survey, the project proponent



will contact the USFWS. The USFWS and the project proponent will work to determine a way to proceed without take or the project proponent will reinitiate consultation with the USFWS to update the Biological Opinion to obtain an Incidental Take Statement that includes any additional take that may occur.

- **6.** All construction personnel will attend environmental awareness training. During the environmental awareness training, construction personnel will be briefed on the status of the beetle, the need to avoid damage to the elderberry host plant, and the possible penalties for not complying with these requirements.
- 7. Herbicides will not be used within the drip-line of the shrub. Insecticides will not be used within 30 meters (98 feet) of an elderberry shrub. All chemicals will be applied using a backpack sprayer or a similar direct application method.
- **8.** A qualified biologist will monitor the work area at project appropriate intervals to assure that all avoidance and minimization measures are implemented.
- **9.** Pursuant to the 2017 Framework, permanent impacts to suitable habitat shall be replaced at a 2:1 ratio. Additionally, elderberry shrubs that will be removed shall be transplanted, if feasible, to a USFWS-approved location. One shrub (one credit) totals 0.041 acre. The total amount of credits required will be determined by the project design.

Mitigation Measure BIO-2: The following measures shall be implemented to reduce potential impacts to western burrowing owls to a less than significant level.

- 1. Preconstruction surveys for western burrowing owls shall be conducted by a qualified biologist in accordance with the California Department of Fish and Wildlife (CDFW) 2012 Staff Report on Burrowing Owl Mitigation.
- 2. If burrowing owls are identified during the preconstruction survey, passive exclusion shall be implemented per CDFW's 2012 Staff Report on Burrowing Owl Mitigation (including avoidance of occupied burrows during the breeding season).
- **3.** Following construction, all areas temporarily impacted during Project construction shall be restored to pre-construction contours (if necessary) and revegetated with native species.

Mitigation Measure BIO-3: The following measures shall be implemented to reduce potential impacts to Swainson's hawks to a less than significant level.

1. If construction begins during the nesting season (February 1 through August 31), an early season preconstruction survey for nesting Swainson's hawks shall be conducted between January and March in the project site and immediate vicinity (an approximately 0.25 mi radius) by a qualified biologist when tree foliage is relatively sparse and nests are easy to identify. A second preconstruction survey for nesting Swainson's hawks shall be conducted in the project site and immediate vicinity (an approximately 0.25 mile radius) by a qualified biologist no more than 14 days prior to initiation of earthmoving activities.

- 2. If nesting Swainson's hawks are found within the survey area, a qualified biologist shall evaluate the potential for the Project to disturb nesting activities. CDFW shall be contacted to review the evaluation and determine if the project can proceed without adversely affecting nesting activities. CDFW shall also be consulted to establish protection measures such as buffers.
- 3. Disturbance of active nests shall be avoided until it is determined by a qualified biologist that nesting is complete and the young have fledged, or that the nest has failed. If work is allowed to proceed, at a minimum, a qualified biologist shall be on-site during the start of construction activities during the nesting season to monitor nesting activity. The monitor shall have the authority to stop work if it is determined the project is adversely affecting nesting activities.
- **4.** Following construction, all fill slopes, temporary impact and/or otherwise disturbed areas shall be restored to preconstruction contours (if necessary) and revegetated with a native seed mix.

Mitigation Measure BIO-4: The following measures shall be implemented to reduce potential impacts to other nesting birds to a less than significant level.

- 1. If work must begin during the nesting season (February 1 to August 31), a qualified biologist shall survey all suitable nesting habitat in the project area for presence of nesting birds. This survey shall occur no more than 10 days prior to the start of construction.
- 2. If no nesting activity is observed, work may proceed as planned. If an active nest is discovered, a qualified biologist shall evaluate the potential for the proposed project to disturb nesting activities. The evaluation criteria shall include, but are not limited to, the location/orientation of the nest in the nest tree, the distance of the nest from the project site, the line of sight between the nest and the project site, and the feasibility of establishing no-disturbance buffers.
- **3.** Additionally, the CDFW shall be contacted to review the evaluation and determine if the project can proceed without adversely affecting nesting activities.
- **4.** If work is allowed to proceed, a qualified biologist shall be on-site weekly during construction activities to monitor nesting activity. The biologist shall have the authority to stop work if it is determined the project is adversely affecting nesting activities.

Mitigation Measure BIO-5: The following measures shall be implemented to reduce potential impacts to riverine wetlands to a less than significant level.

1. A formal jurisdictional waters delineation in accordance with the USACE Routine Approach for small areas (i.e., equal to or less than 5 acres) shall be conducted. The survey will include collection of data on soils, hydrology, and vegetation, where necessary, to determine the extent of potential waters of the U.S. in the project area. In addition, the delineation shall be conducted in accordance with the USACE Arid West Regional Supplement to the Wetland Delineation Manual (September 2008).



- 2. If the Project would result in the loss of wetlands and/or non-wetland waters, mitigation shall be accomplished by purchasing credits at an approved mitigation bank, payment of in-lieu fees, or a combination of these methods. Mitigation ratios shall be at least 1:1.
- **3.** The project proponent shall obtain any necessary regulatory permits prior to the commencement of ground disturbing activities.

3.5 CULTURAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?			\boxtimes	
b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?				
c. Disturb any human remains, including those interred outside of formal cemeteries?		\boxtimes		

3.5.1 Impact Analysis

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

An LSA cultural resources manager conducted background research of the 38.47-acre project site that included a records search at the North Central Information Center (NCIC), a historical map and aerial review; outreach to historical societies and the Native American Heritage Commission (NAHC), and a pedestrian field survey. Five historic-period cultural resources were identified in the project site. The Western Pacific Railroad (P-34-000491/CA-SAC-464H) was previously found ineligible for listing in the California Register of Historical Resources (CRHR) based on a lack of integrity and does not meet the definition of a historical resource under CEQA. LSA concurs with this finding as it applies to the segment identified in the project site. Additionally, the remains of the Elliot Ranch holding corral and railroad loading chute (P-34-001968/P-34-000761) identified in the project site lacks integrity and does not to meet the definition of a historical resource under CEQA. Two isolated artifacts were previously recorded in the project site but have since been removed. The Brighton-Grand Island 115 kilovolt transmission line crosses the project site but is raised high enough to be outside of the area of impact. None of the historic-period resources are historical resources as defined by the CEQA and they do not require additional consideration for purposes of this project. Therefore, this impact would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

LSA reviewed various publications and databases for information pertaining to soils and landforms of the project site to identify the sensitivity for buried cultural resources. The sensitivity for subsurface archaeological deposits in the project site is moderate based on soil types, landforms, and disturbances associated with the construction and maintenance of the railroad.

The surface geology within the project site is mapped as Riverbank Formation alluvium (Qr) (Wagner, D.L et.al 1981). The Riverbank Formation ranges from 1 to 200 feet in thickness and dates

to the Pleistocene. It is composed of two distinct members (upper and lower) that correspond to stratigraphic position. The Riverbank Formation lower member, which is associated with higher stream cut terraces, is mapped within the project site (California Department of Water Resources 2014). The project site generally has a low sensitivity for buried archaeological resources based on landform age. However, the potential exists that undiscovered archaeological resources could be found during construction activities. This impact would be potentially significant prior to implementation of mitigation. Implementation of Mitigation Measures CUL-1, CUL-2, and CUL-3 would reduce the proposed project's potentially significant impacts on archaeological resources to a less-than-significant level.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

c. Would the project disturb any humans remains, including those interred outside of formal cemeteries?

There are no known archaeological resources or formal cemeteries recorded in the project footprint. Although there is no indication that human remains are present in the project footprint, there is always a possibility that ground-disturbing activities during construction may uncover previously unknown buried human remains. The disturbance/destruction of human remains would be a potentially significant impact.

Based on LSA's research, no evidence suggests that any prehistoric or historic-era marked or unmarked human internments are present in the project footprint. The location of grave sites and Native American remains can occur outside of formal cemeteries or burial sites. Ground-disturbing construction activities could uncover previously unknown human remains, which could be archaeologically or culturally significant.

California law recognizes the need to protect Native American human burials, skeletal remains, and items associated with Native American burials from vandalism and inadvertent destruction. The procedures for the treatment of Native American human remains are contained in California Health and Safety Code Sections 7050.5 and 7052, and California Public Resources Code Section 5097. Implementation of Mitigation Measure CUL-4 would reduce the proposed project's potentially significant impact on human remains to a less-than-significant level.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

3.5.2 Mitigation Measures

Mitigation Measure CUL-1: Worker Cultural Resources Training. Prior to any construction activities, including demolition and grading, the project developer shall have a qualified archaeologist implement cultural resources sensitivity training to all construction personnel and supervisors who will have the potential to encounter and alter cultural resources. The training shall describe, at a minimum:

- Types of cultural resources that may be expected in the project area;
- Types of evidence that indicate the presence of cultural resource (e.g., midden soils, ash, charcoal, chipped or groundstone materials, projectile points, trash scatters or concentrations, privies, structural remains such as foundation footings and walls, bottle and ceramic fragments, or gravestones);
- What to do, and who to contact, if cultural resources are encountered;
- What to do if bones, especially human remains, are encountered; and
- What the legalities are of removing or intentionally disturbing cultural resources or human remains.

Mitigation Measure CUL-2: Native American Monitoring. Prior to completion of the final project design and construction, SJRRC shall continue consultation with the previously identified Tribes to discuss areas that may need further field review by tribal members due to concern that may require a tribal monitor present during ground-disturbing activities of archaeologically and culturally sensitive areas. In the event that a resource is discovered, the archaeologist shall evaluate it to determine its eligibility for the CRHR. If it is a historic resource, unique archaeological resource, or tribal cultural resource as defined by CEQA, SJRRC shall consult with the project archaeologist and tribal members regarding methods to ensure that no substantial adverse change would occur to the significance of the resource, either by, but not limited to, avoidance or through archaeological and tribal monitoring.

Mitigation Measure CUL-3: Inadvertent Archaeological Discovery. Although it is not anticipated, ground-disturbing activities could result in discovery of damage of as-yet undiscovered archaeological resources as defined in Section 15064.5. If prehistoric or historic-era cultural materials are encountered during project site preparation or construction activities, all ground-disturbing activities in the area of the discovery shall be halted until a qualified archaeologist is and Tribal Representative from consulting Native American Tribes are contacted and can assess the discovery. If the archaeologist and Tribal Representative from consulting Native American Tribes determines that the find does not meet CRHR standards of significance for cultural resources or tribal cultural resources, work activities may proceed.

If the discovery is determined to be potentially significant, the archaeologist, in consultation with SJRRC and the appropriate Native American representative, shall determine if preservation in place is feasible. If avoidance is not feasible, project impacts shall be mitigated in accordance with CEQA Guidelines Section 15126.4 (b)(3)(C), which requires implementation of a data recovery plan. The data recovery plan shall include provisions for adequately recovering all scientifically consequential information from and about any discovered archaeological materials, and include recommendations for the treatment of these resources. In-place preservation of the archaeological or cultural resources is the preferred manner of mitigating potential impacts, because it maintains the relationship between the resource and the archaeological context and maintains tribal cultural values and integrity. In-place preservation also reduces the potential for conflicts with the religious or cultural values of groups associated with the resource. Other mitigation options include, but are



not limited to, the full or partial removal and curation of the resource. No matter the approach, the resource must be recorded following accepted professional standards on DPR 523 Series forms, and the information submitted to the appropriate California Historical Resources Information System (CHRIS) office (NCIC), along with associated reports.

Mitigation Measure CUL-4: Discovery of Previously Unknown Human Remains. If human remains are discovered during any construction activities, all work within 100 feet of the remains should be redirected, and the County Coroner notified immediately. At the same time, an archaeologist shall be contacted to assess the situation. If it is determined that the human remains are of Native American origin, the Coroner must notify the NAHC within 24 hours of this identification. The NAHC will identify a Most Likely Descendant to provide recommendations for the proper treatment of the remains and any associated grave goods. The archaeologist may recover scientifically valuable information, as appropriate and in coordination with the Most Likely Descendant. On completion of the archaeologist's assessment, a report should be prepared documenting methods and results, as well as recommendations regarding the treatment of the human remains and any associated archaeological materials. The report should be submitted to the SJRRC and the appropriate Information Center under CHRIS.

3.6 ENERGY

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

3.6.1 Impact Analysis

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

This analysis evaluates energy consumption for both construction and operation of the proposed project.

Construction Impacts

Construction would require fuel use for construction equipment, trucks, and worker commuting. However, the energy expenditure associated with the proposed project construction would be temporary and limited to the duration of the construction period. Many financial incentives are offered by government agencies and utility companies to support energy-efficient investments. Therefore, construction materials built and purchased from offsite suppliers would be efficiently produced based on the economic incentive for efficiency (SJRRC 2020).

Construction of the proposed project would require energy for the manufacture and transportation of construction materials, preparation of the site for grading activities, and construction of the station platform, rail siding, main line track, pedestrian overcrossing, and surface parking lot with access from Dwight Road. Petroleum fuels (e.g., diesel and gasoline) would be the primary sources of energy for these activities. Implementation of Mitigation Measure GHG-1 would increase energy efficiency on the site during project construction. In addition, construction activities are not anticipated to result in an inefficient use of energy as gasoline and diesel fuel would be supplied by construction contractors who would conserve the use of their supplies to minimize their costs on the project. Energy usage on the project site during construction would be temporary in nature and would be relatively small in comparison to the State's available energy sources. Therefore, construction energy impacts would be less than significant.

Operational Impacts

Operations would result in a net energy savings because the fuel savings from reduced personal vehicle, vehicle miles traveled (VMT) would more than offset the energy demand from train operations, stations, and the shuttle. In addition, energy demand at the new station would be



minimized by compliance with Title 24 standards. The only energy demand at the proposed station would be in the form of electricity. Electricity would be provided by utility providers that currently exceed the Renewables Portfolio Standard Program. Also, the facilities would not be staffed, and the new station would not result in activities that consume electricity in an inefficient manner. Therefore, the operation of the proposed project would not encourage or result in activities that consume large amounts of electricity in an inefficient manner.

Once operational, the proposed project would result in a net energy savings due to fuel savings from reduced personal vehicle VMT. In addition, Sacramento Municipal Utility District (SMUD) is the private utility that would supply the proposed project's electricity services. SMUD's 2030 Zero Carbon Plan (SMUD 2021) provides a road map to eliminate carbon emissions from their electricity production by 2030 while maintaining a reliable and affordable service and partnering with customers, communities, and a wide range of stakeholders. In addition, the proposed project would be required to comply with Title 24 standards. Therefore, the proposed project would not result in the wasteful, inefficient, or unnecessary consumption of fuel or energy and would incorporate renewable energy or energy efficiency measures into building design, equipment use, and transportation. Therefore, construction and operation period impacts related to consumption of energy resources would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

In 2002, the Legislature passed Senate Bill (SB) 1389, which required the California Energy Commission (CEC) to develop an integrated energy plan every two years for electricity, natural gas, and transportation fuels, for the California Energy Policy Report. The plan calls for the State to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies a number of strategies, including assistance to public agencies and fleet operators in implementing incentive programs for zero emission vehicles and their infrastructure needs, and encouragement of urban designs that reduce VMT and accommodate pedestrian and bicycle access.

The CEC adopted the 2019 Integrated Energy Policy Report (California Energy Commission 2019) in 2019. The 2019 Integrated Energy Policy Report provides the results of the CEC's assessments of a variety of energy issues facing California. Many of these issues will require action if the State is to meet its climate, energy, air quality, and other environmental goals while maintaining energy reliability and controlling costs. The 2019 Integrated Energy Policy Report covers a broad range of topics, including implementation of SB 350, integrated resource planning, distributed energy resources, transportation electrification, solutions to increase resiliency in the electricity sector, energy efficiency, transportation electrification, barriers faced by disadvantaged communities, demand response, transmission and landscape-scale planning, the California Energy Demand Preliminary Forecast, the preliminary transportation energy demand forecast, renewable gas (in response to SB 1383), updates on electricity reliability, natural gas outlook, and climate adaptation and resiliency.

As indicated above, energy usage in the project area during construction would be relatively small in comparison to the State's available energy sources and energy impacts would be negligible at the regional level. Because California's energy conservation planning actions are conducted at a regional level, and because the project's total impact to regional energy supplies would be minor, the proposed project would not conflict with California's energy conservation plans as described in the CEC's 2019 Integrated Energy Policy Report. Further, the proposed project would reduce VMT and traffic congestion relief throughout the project alignment and region, which would allow for a decreased dependence on nonrenewable energy resources and a reduction in energy use. Thus, as demonstrated above, the project would avoid or reduce the inefficient, wasteful, and unnecessary consumption of energy and not result in any irreversible or irretrievable commitments of energy. Impacts would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

3.7 GEOLOGY AND SOILS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:	•	•	·	
 a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning 				
Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.				
ii. Strong seismic ground shaking?iii. Seismic-related ground failure, including liquefaction?iv. Landslides?b. Result in substantial soil erosion or the loss of topsoil?				
c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral				
spreading, subsidence, liquefaction or collapse? d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?			\boxtimes	
e. Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?				\boxtimes
f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?		\boxtimes		

3.7.1 Impact Analysis

- a. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:
 - i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

According to USGS Fault Maps, Sacramento and San Joaquin counties (including the project footprint) are not seismically active areas (USGS 2021). Based on mapping by the California Geological Survey (CGS), the closest Holocene fault, defined as active within the last 11,700 years, is an unknown fault mapped about 36 miles generally northwest of the project site. No active fault traces are shown on the cited published mapping, and the site is not within or adjacent to an Alquist-Priolo Earthquake Fault Zone for fault rupture hazard (Crawford 2021). Therefore, there would be no impact related to proximity to active faults.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

ii. Strong seismic ground shaking?

The project site is not located within an Alquist-Priolo earthquake hazard zone; however, major seismic events occurring in adjacent areas, especially the San Francisco Bay Area, could cause the project area to experience ground-shaking activity. The proposed project would involve construction of a station platform, rail siding, and new mainline track within UPRR right-of-way, a pedestrian overcrossing, and a surface parking lot with access from Dwight Road. The proposed project will not result in the development of habitable structures or other development that would typically cause an increase in population, which could be adversely affected by seismic ground shaking. The project would be constructed in accordance with applicable federal transportation standards and the California Building Code. Therefore, impacts would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

iii. Seismic-related ground failure, including liquefaction?

Liquefaction is most likely to occur in deposits of water-saturated alluvium or similar deposits of artificial fill. The project site is underlain by Galt clay, leveled and San Joaquin-Galt complex soils, which are moderately well drained soils (Natural Resources Conservation Service [NRCS] 2020). Approximately 0.45 mile north of the Laguna Boulevard overcrossing, the project is also underlain by Galt clay, 0 to 1 percent slopes, which is somewhat poorly drained. Elk Grove is not in an area of Sacramento County known to be susceptible to liquefaction. Additionally, the depth to the groundwater table at groundwater measurement locations in the vicinity of the project site is more than 80 feet below the ground surface (California Water Boards 2020). Therefore, no impact would occur.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

iv. Landslides?

The project site and surrounding area are relatively flat. The possibility of a landslide is unlikely, as there are no topographical features in the vicinity of the project site that would create a risk of exposure to landslide. No impact would occur.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

The erosion potential for the project area is moderate for water erosion and low for wind erosion; the potential for water runoff is medium to high (NRCS 2020).



Soils on steep slopes are often more erodible, especially during heavy rain events. Because the project footprint is relatively flat, substantial soil erosion is not expected to occur. However, based on the soil characteristics in study area, soil erosion and loss of topsoil could potentially be a significant impact.

Implementation of best management practices identified in Mitigation Measure GEO-1 would further prevent impacts to soil. Therefore, construction of the project would have a less-than-significant impact related to soil erosion and loss of topsoil.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

The proposed project would not be situated on a geologic unit or soil that is prone to landslides or liquefaction, nor would the project improvements exacerbate the potential for landslides and liquefaction. Project improvements would be constructed in areas that are relatively flat, with little to no slopes. Additionally, these areas are not near active seismic sources, and generally have greater depth to the groundwater table. Because the project is not in a geologic unit or soil that is unstable, or that would become unstable, and construction and operation of the project would not result in lateral spreading, subsidence, liquefaction, or collapse, no impact would occur.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

Expansive soils are composed largely of clays, which greatly increase in volume when saturated with water, and shrink when dried (referred to as shrink-swell potential). Because of this effect, structural foundations may rise during the rainy season and fall during the dry season. If this expansive movement varies beneath different parts of a structure, the foundation may crack, and portions of the structure may become distorted. Retaining walls and underground utilities may be damaged for the same reasons. Plasticity index is a commonly used method to help determine the expansive properties of soils for engineering purposes. Based on the plasticity index of soils in the proposed project area, the shrink swell potential is high (NRCS 2020).

Prior to construction, a geotechnical report would be prepared to identify site-specific areas and magnitudes where expansive soils could occur, and appropriate building techniques (such as treating soil with lime to reduce expansive characteristics, or excavate expansive soil and replace with clean fill dirt) would be proposed to prevent damage to foundations related to this hazard. Therefore, potential impacts related to expansive soils would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

The proposed station platform would not include restroom facilities. No septic systems or alternative wastewater disposal systems are associated with the proposed project. Therefore, there would be no impact related to the soils' capability to support these systems during construction and operation of the project.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Project-related earthmoving activities would occur in the Pleistocene-age Riverbank formation. Because numerous vertebrate fossils have been recovered from the Riverbank formation throughout the Central Valley, this formation is considered to be paleontologically sensitive. Therefore, earthmoving activities in the Riverbank Formation could result in accidental damage to or destruction of unique paleontological resources, and this impact is considered potentially significant. For purposes of this impact analysis, it is assumed that any ground disturbance deeper than 5 feet would encounter the unit of high paleontological sensitivity.

Mitigation Measure GEO-2 would require training for construction crews to better recognize paleontological resources; periodic monitoring during construction; stopping work if paleontological resources are discovered; evaluating those resources by a qualified paleontologist; and as appropriate, preparing and implementing a recovery plan. Therefore, implementation of Mitigation Measure GEO-2 would reduce the proposed project's potentially significant impacts on unique paleontological resources to a less-than-significant level.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

3.7.2 Mitigation Measures

Implementation of Mitigation Measure GEO-1 would reduce potentially significant construction impacts associated with soil erosion to a less-than-significant level. Implementation of Mitigation Measure GEO-2 would reduce potentially significant construction paleontological resource impacts to a less-than-significant level.

GEO-1: Implement Best Management Practices to reduce soil erosion.

Soil erosion caused by construction shall be reduced by following best management practices (BMPs) as part of National Pollutant Discharge Elimination System (NPDES) and Storm Water



Pollution Prevention Plan requirements that will be included in construction permits. The construction contractor shall implement BMPs, which would include but not be limited to the use of gravel bags, straw rolls, and geotextiles to prevent erosion caused by water runoff. Additionally, the construction contractor shall implement dust control measures, such as misted water, silt fences, and polymer additives, to control loss of topsoil caused by wind. Furthermore, the construction contractor shall implement standard measures required as part of the NPDES program to minimize water quality degradation, including erosion and subsequent sediment transport, during construction activities.

GEO-2: Conduct construction personnel education and implement periodic monitoring; stop work if paleontological resources are discovered; assess the significance of the find, and prepare and implement a recovery plan, as required.

Before the start of any earthmoving activities, SJRRC shall retain a qualified paleontologist to train all construction personnel involved with earthmoving activities, including the site superintendent, regarding the possibility of encountering fossils; the appearance and types of fossils that are likely to be seen during construction; and proper notification procedures should fossils be encountered. Procedures to be conveyed to workers include halting construction within 50 feet of any potential fossil find and notifying SJRRC.

The qualified paleontologist shall also make periodic visits during earthmoving activities in high-sensitivity sites to verify that workers are following the established procedures.

If paleontological resources are discovered during earthmoving activities, the construction crew shall immediately cease all work within 50 feet of the find and notify SJRRC. SJRRC shall retain a qualified paleontologist to evaluate the resource and prepare a recovery plan, in accordance with SVP guidelines. The recovery plan may include, but is not limited to, a field survey, construction monitoring, sampling and data recovery procedures, museum storage coordination for any specimen recovered, and a report of findings. Recommendations in the recovery plan that are determined by SJRRC, as the CEQA lead agency, to be necessary and feasible shall be implemented before construction activities can resume at the site where the paleontological resources were discovered. SJRRC shall be responsible for ensuring that the monitor's recommendations regarding treatment and reporting are implemented.

3.8 GREENHOUSE GAS EMISSIONS

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

3.8.1 Impact Analysis

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

- Carbon dioxide (CO₂);
- Methane;
- Nitrous oxide;
- Hydrofluorocarbons;
- Perfluorocarbons; and
- Sulfur Hexafluoride.

Over the last 200 years, humans have caused substantial quantities of GHGs to be released into the atmosphere. These extra emissions are increasing GHG concentrations in the atmosphere and enhancing the natural greenhouse effect, believed to be causing global warming. While manmade GHGs include naturally-occurring GHGs such as CO₂, methane, and nitrous oxide, some gases, like hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride are completely new to the atmosphere.

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

These gases vary considerably in terms of Global Warming Potential (GWP), a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and length of time that the gas remains in the atmosphere ("atmospheric lifetime"). The GWP of each gas is measured relative to CO_2 , the most abundant GHG. The definition of GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to the ratio of heat trapped by one unit mass of CO_2 over a specified time period. GHG emissions are typically measured in terms of pounds or tons of "carbon dioxide equivalent equivalents" (CO_2e).



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

Construction would generate GHG impacts through the use of heavy-duty equipment, construction worker vehicle trips, and truck hauling trips. The GHG emissions from construction activity would be temporary, and would cease when construction is complete. Operations have the potential to generate GHG emissions through passenger rail, shuttle bus, and station electricity use and waste generation activity.

Construction Impacts

Short-term construction emissions would generate an increase in GHG emissions. Project construction activities would include clearing and grubbing, grading, excavation, foundation, utilities, paving, concrete, and reinforcing steel activities, as well as installation of signage, shelters, lighting, security, railings, benches, and trash receptacles. To conservatively ensure that the proposed project implements all feasible measures to minimize such emissions, the SJRRC would implement Mitigation Measure GHG-1, which would reduce construction-related GHG emissions to a less-than-significant level. Mitigation Measure GHG-1 would reduce potential GHG emissions from off-road and on-road construction vehicles by improving fuel efficiency from construction equipment. Even with implementation of Mitigation Measure GHG-1, construction activities would still generate GHG emissions in the short-term, but would be offset in the long-term by GHG emissions reductions resulting from operations of the proposed project. This impact would be less than significant with implementation of Mitigation Measure GHG-1.

Operational Impacts

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

The Valley Rail Extension Draft and Final EIRs quantified GHG emissions and determined that operations would result in a net GHG reduction due to changes in regional traffic and diverted private automobile trips to mass transit. Estimated net regional GHG emission reductions would be 11,099 metric tons of CO_2e per year. Operational emissions and reductions were estimated for the year 2025, when the Valley Rail Sacramento Extension Project would be fully operational; net emission reductions would decline as a function of time because the vehicles that would be removed from the road will be progressively cleaner due to engine improvements and vehicle modernization.

The Valley Rail Extension Draft and Final EIRs found that GHG emission reductions achieved through operations would offset the temporary construction emissions and would contribute to a regional reduction in GHG emissions. This reduction would be an environmental benefit and would assist the State in meeting larger statewide GHG reduction goals outlined under Assembly Bill (AB) 32, SB 32, and Executive Order S-03-05. Therefore, this impact was considered to be less than significant.

Similarly, implementation of the proposed project would generate operational GHG emissions through passenger rail, shuttle bus, and station electricity use and waste generation activity. However, operations would also improve passenger rail opportunities for the region, which would remove on-road vehicles from the transportation network and would result in a net energy savings due to fuel savings from reduced personal vehicle VMT. In addition, as discussed above in Section 3.6, Energy, SMUD is the private utility that would supply the proposed project's electricity services and would meet the State's renewable energy mandate set forth in SB 100. The proposed project would also be required to comply with Title 24 standards. Therefore, the energy emissions generated by the proposed project would be minimal and would not exceed GHG thresholds established by the SMAQMD. As such, the proposed project would not result in a substantial increase in GHG emissions and would not exceed GHG thresholds established by the SMAQMD.

Project improvements within the UPRR right-of-way are exempt from City of Elk Grove regulations and policies. However, project components located outside the UPRR right-of-way (surface parking lot and pedestrian overcrossing) would be subject to City of Elk Grove regulations and policies. The City of Elk Grove's Climate Action Plan (CAP) was adopted February 27, 2019 and identifies how the City will achieve the State's targets of reducing GHG emissions to 1990 levels by 2020 and 40 percent below 1990 levels by 2030 pursuant to AB 32 and SB 32. The CAP also demonstrates initial progress towards meeting the State's long-term 2050 goal of reducing emissions to 80 percent below 1990 levels as stated in Executive Order S-03-05. The CAP provides goals and associated measures, also referred to as GHG reduction strategies, in the sectors of energy use, transportation, land use, and solid waste. In addition, the City's CAP serves as a qualified Greenhouse Gas Reduction Strategy consistent with the State CEQA Guidelines, Section 15183.5. Therefore, the proposed project's GHG emissions would not be considered a significant impact if the project would be consistent with all applicable GHG reduction strategies in the City's CAP in project designs and mitigation measures. The proposed project's consistency with the applicable GHG reduction strategies is included in Table 3.A below.



Table 3.A: Project Consistency with the City of Elk Grove Climate Action Plan

GHG Reduction Measure	Project Consistency
BE-1. Building Stock: Promote Energy Conservation. Promote energy conservation by residents and businesses in existing structures in close coordination with other agencies and local energy providers, including the Sacramento Municipal Utility District (SMUD) and Pacific Gas and Electric	Not Applicable. The proposed project would not include any residents or businesses.
(PG&E). BE-2. Building Stock: Residential Appliances in Existing Development. Support residential upgrades to more energy-efficient, cost-saving appliances for existing homes, leveraging regional and state resources to target indoor and outdoor appliances and equipment in existing homes.	Not Applicable. The proposed project would not include any residents.
BE-3. Building Stock: Nonresidential Appliances in Existing Development. Equip businesses in Elk Grove to reduce operational expenses and maximize energy efficiency through the use of energy-efficient and cost-effective indoor and outdoor appliances and equipment.	Not Applicable. The proposed project would not include any businesses.
BE-4. Encourage or Require Green Building Practices in New Construction. Encourage new construction projects to comply with CALGreen Tier 1 standards, including a 15 percent improvement over minimum Title 24 Part 6 Building Energy Efficiency Standards. For projects that the City determines are not exempt from CEQA (i.e., an environmental document is required) and that qualify for project-level GHG analysis streamlining under CEQA Guidelines Section 15183.5, compliance with CALGreen Tier 1 may be required as a mitigation measure, unless other measures are determined by the City to achieve equivalent GHG reduction such that the CAP remains on track to achieving the overall GHG reduction target.	Consistent. The proposed project would comply with Title 24 standards, which would reduce energy demand at the proposed station. However, the proposed project would not meet CALGreen Tier 1 standards, including a 15 percent improvement over minimum Title 24 Part 6 Building Energy Efficiency Standards. However, once operational, the proposed project would contribute to a regional reduction in GHG emissions and would assist the City and State in meeting larger Statewide GHG reduction goals.
Phase in zero net energy (ZNE) standards for new construction, beginning in 2020 for residential projects and 2030 for commercial projects. Specific phase-in requirements and ZNE compliance standards will be supported by updates in the triennial building code updates, beginning with the 2019 update.	Not Applicable. The proposed project would not include any new residential or commercial uses.
BE-6. Building Stock: Electrification in New and Existing Residential Development. Encourage and incentivize new residential developments to include all-electrical appliances and HVAC systems in the design of new projects. Support local utilities in implementing residential retrofit programs to help homeowners convert to all electrical appliances and HVAC systems. Explore the feasibility of phasing in minimum standards for all-electric developments.	Not Applicable. The proposed project would not include any new residential uses.
BE-7. Building Stock: Solar Photovoltaics and Solar Water Heating in Residential and Commercial Development. Encourage and require installation of on-site solar photovoltaic (PV) in new single-family and low-rise multi-family developments. Promote installation of on-site PV systems in existing residential and commercial development	Not Applicable. The proposed project would not include any residential or commercial uses.
BE-8. SMUD Greenergy and SolarShares Programs. Encourage participation in SMUD's offsite renewable energy programs (i.e., Greenergy, SolarShares), which allow building renters and owners to opt into cleaner electricity sources	Not Applicable. The proposed project would not include any residential or commercial uses.

Table 3.A: Project Consistency with the City of Elk Grove Climate Action Plan

GHG Reduction Measure	Project Consistency
RC-1. Waste Reduction. The City shall facilitate recycling, reduction in the amount of waste, and re-use of materials to reduce the amount of solid waste	Consistent. The proposed project would be consistent with the CalRecycle Waste
generated in Elk Grove.	Diversion and Recycling Mandate which
	will reduce solid waste production by 75
	percent. In addition, implementation of
	Mitigation Measure GHG-1 would
	require the recycling or salvaging of non-
	hazardous construction and demolition
	debris, with a goal of at least 75 percent
	by weight; and the use of locally sourced
	or recycled construction materials.
RC-2. Reduce Organic Waste. Target reduction of disposal of organic waste,	Consistent. The proposed project would
consistent with statewide goals of 50 percent of 2014 levels in 2020 and 75	be consistent with the CalRecycle Waste
percent of 2014 levels in 2025, using alternatives such as composting, anaerobic	Diversion and Recycling Mandate which
digestion, and biomass energy.	will reduce solid waste production by 75
	percent.
TACM-1. Local Goods. Promote policies, programs, and services that support	Consistent. The proposed project would
the local movement of goods in order to reduce the need for travel.	support transportation opportunities
	(rail) in the City.
TACM-2. Transit-Oriented Development. Support higher-density, compact	Consistent. The proposed project would
development along transit by placing high-density, mixed-use sites near transit	develop a new rail station that would
opportunities.	serve the Elk Grove community. The
	station would support future transit-
	oriented development near the transit
	station.
TACM-3. Intracity Transportation Demand Management. The City shall	Consistent. The proposed project would
continue to implement strategies and policies that reduce the demand for	support transportation opportunities
personal motor vehicle travel or intracity (local) trips.	(rail) that would reduce the demand for
	personal motor vehicle travel or intracity
	(local) in the City.
TACM-4. Pedestrian and Bicycle Travel. Provide for safe and convenient	Consistent. The proposed project would
pedestrian and bicycle travel through implementation of the Bicycle, Pedestrian,	include bicycle racks/lockers for cyclists,
and Trail Master Plan and increased bicycle parking standards.	bus bays for transit riders, and the
	access to the surface parking lot from
	Dwight Road would be designed to
	accommodate cyclists, pedestrians, and
	people with disabilities.
TACM-5. Affordable Housing. Continue to promote and require the	Not Applicable. The proposed project
development of affordable and senior housing in Elk Grove.	would not include any residential uses.
TACM-6. Limit Vehicle Miles Traveled. Achieve a 15 percent reduction in daily	Consistent. The proposed project would
VMT compared to existing conditions (2015) for all new development in the City,	
consistent with state-mandated VMT reduction targets for land use and	serve the Elk Grove community and
transportation projects.	would reduce VMT and traffic
	congestion relief throughout the project
TACM 7 Traffic Calming Managers Increase the number of streets and	alignment and region.
TACM-7. Traffic Calming Measures. Increase the number of streets and intersections that have traffic salming measures.	Consistent. The proposed project would
intersections that have traffic calming measures.	develop a new rail station that would
	serve the Elk Grove community and
	would reduce VMT and traffic
	congestion relief throughout the project
	alignment and region.



Table 3.A: Project Consistency with the City of Elk Grove Climate Action Plan

GHG Reduction Measure	Project Consistency
TACM-8. Tier 4 Final Construction Equipment. Require all construction	Consistent. Although the proposed
equipment used in Elk Grove to achieve Environmental Protection Agency rated	project would not use Tier 4
Tier 4 Final diesel engine standards by 2030 and encourage the use of electrified	construction equipment, the proposed
equipment where feasible.	project would be constructed prior to
	2030. In addition, implementation of
	Mitigation Measure GHG-1 would
	require the idling of construction
	equipment to be limited to no more than
	3 minutes; the use of alternative fuels to
	power construction equipment when
	feasible; the use of CARB low carbon fuel
	to power construction equipment; the
	promotion of carpools, shuttle vans,
	transit passes, and/or secure bicycle
	parking for construction worker
	commutes; recycling or salvaging non-
	hazardous construction and demolition
	debris, with a goal of at least 75 percent
	by weight; and the use of locally sourced
	or recycled construction materials.
TACM-9. EV Charging Requirements. Adopt an electric vehicle (EV) charging	Consistent. The proposed project would
station ordinance that establishes minimum EV charging standards for all new	not preclude future development of
residential and commercial development. Increase the number of EV charging	stalls with electric vehicle charging
stations at municipal facilities throughout the City.	equipment.

Source: City of Elk Grove (February 2019) and LSA (April 2021).

As demonstrated in Table 3.A, the proposed project would be consistent with all the applicable GHG reduction strategies in the City's CAP. Therefore, the proposed project would not be a significant source of GHG emissions and this impact would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

As discussed above, the City of Elk Grove developed a CAP in February 2019 which identifies how the City will achieve the State's targets of reducing GHG emissions to 1990 levels by 2020 and 40 percent below 1990 levels by 2030 pursuant to AB 32 and SB 32. The CAP also demonstrates initial progress towards meeting the State's long-term 2050 goal of reducing emissions to 80 percent below 1990 levels as stated in Executive Order S-03-05. As described above, the proposed project would be consistent with the all applicable GHG reduction strategies in the City's CAP.

In addition, the proposed project was analyzed for consistency with the goals of AB 32, the AB 32 Scoping Plan, Executive Order B-30-15, SB 32, and AB 197.

California's major initiative for reducing GHG emissions is AB 32, passed by the State Legislature on August 31, 2006. AB 32 is aimed at reducing GHG emissions to 1990 levels by 2020. AB 32 requires CARB to prepare a Scoping Plan that outlines the main State strategies for meeting the 2020 deadline and to reduce GHGs that contribute to global climate change. The AB 32 Scoping Plan has a range of GHG reduction actions, which include direct regulations, alternative compliance mechanisms, monetary and nonmonetary incentives, voluntary actions, market-based mechanisms (e.g., cap-and-trade system), and an AB 32 implementation fee to fund the program.

Executive Order B-30-15 added the immediate target of reducing GHG emissions to 40 percent below 1990 levels by 2030. CARB released a second update to the Scoping Plan, the 2017 Scoping Plan (California Air Resources Board 2017), to reflect the 2030 target set by Executive Order B-30-15 and codified by SB 32. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reduction target of at least 40 percent below 1990 levels by 2030 contained in Executive Order B-30-15. SB 32 builds on AB 32 and keeps us on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels. The companion bill to SB 32, AB 197, provides additional direction to CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 that is intended to provide easier public access to air emission data collected by the CARB was posted in December 2016.

The AB 32 Scoping Plan contains GHG reduction measures that work towards reducing GHG emissions, consistent with the targets set by AB 32, Executive Order B-30-15, and codified by SB 32 and AB 197. The measures applicable to the proposed project include energy efficiency measures, water conservation and efficiency measures, and transportation and motor vehicle measures, as discussed below.

Energy-efficient measures are intended to maximize energy-efficiency building and appliance standards, pursue additional efficiency efforts including new technologies and new policy and implementation mechanisms, and pursue comparable investment in energy efficiency from all retail providers of electricity in California. In addition, these measures are designed to expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings. As identified above, the proposed project would comply with Title 24 standards, which would reduce energy demand at the proposed station. Therefore, the proposed project would comply with applicable energy measures.

Water conservation and efficiency measures are intended to continue efficiency programs and use cleaner energy sources to move and treat water. Increasing the efficiency of water transport and reducing water use would reduce GHG emissions. The proposed project would implement water conservation measures in proposed project landscaping, use recycled water to irrigate project landscaping, and would include native and/or drought-tolerant landscaping. Therefore, the proposed project would not conflict with any of the water conservation and efficiency measures.

The goal of transportation and motor vehicle measures is to develop regional GHG emission reduction targets for passenger vehicles. The second phase of Pavley standards will reduce GHG emissions from new cars by 34 percent from 2016 levels by 2025, resulting in a 3 percent decrease in average vehicle emissions for all vehicles by 2020. Vehicles traveling to the project site would comply with the Pavley II (LEV III) Advanced Clean Cars Program. In addition, the proposed project

would develop a new rail station that would serve the Elk Grove community and would reduce VMT and traffic congestion relief throughout the project alignment and region. Therefore, the proposed project would not conflict with the identified transportation and motor vehicle measures.

As demonstrated above, the proposed project is consistent with the City's CAP and would comply with existing State regulations adopted to achieve the overall GHG emission reduction goals identified in AB 32, the AB 32 Scoping Plan, Executive Order B-30-15, SB 32, and AB 197. Furthermore, GHG emission reductions achieved through operations would contribute to a regional reduction in GHG emissions that would assist the State in meeting statewide GHG reduction goals outlined under AB 32, SB 32, and Executive Order S-03-05. Therefore, the proposed project would be consistent with applicable plans and programs designed to reduce GHG emissions and the proposed project would not conflict with plans, policies, or regulations adopted for the purpose of reducing GHG emissions.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

3.8.2 Mitigation Measures

Implementation of Mitigation Measure GHG-1 would reduce potentially significant construction GHG emissions impacts to a less-than-significant level.

GHG-1: Implement construction emission reductions to minimize construction-related GHG emissions.

The SJRRC shall implement construction GHG emission reduction measures, including the following, as feasible. These are consistent with emission reduction measures identified in the SMAQMD Guidance for Construction GHG Emission Reductions.

Improve fuel efficiency from construction equipment:

- Minimize idling time either by shutting equipment off when not in use, or reducing the time
 of idling to no more than 3 minutes (a 5-minute limit is required by the State airborne toxics
 control measure [Title 13, Sections 2449 (d)(3) and 2485 of the CCR]). Provide clear signage
 that posts this requirement for workers at the entrance to the site.
- Maintain all construction equipment in proper working condition according to manufacturers' specifications. The equipment must be checked by a certified mechanic and determined to be running in proper condition before it is operated.
- Train equipment operators in proper use of equipment.
- Use the proper size of equipment for the job.
- Use equipment with new technologies (repowered engines, electric drive trains).

- Perform on-site material hauling with trucks equipped with on-road engines (if determined to be less emissive than off-road engines).
- Use alternative fuels for generators such as propane or solar, or use electrical power.
- Use a CARB low-carbon fuel for construction equipment.
- Encourage and provide carpools, shuttle vans, transit passes, and/or secure bicycle parking for construction worker commutes.
- Recycle or salvage non-hazardous construction and demolition debris, with a goal of at least
 75 percent by weight.
- Use locally sourced or recycled construction materials; use wood products certified through a sustainable forestry program.
- Minimize the amount of concrete for paved surfaces, or use a low-carbon concrete option.



3.9 HAZARDS AND HAZARDOUS MATERIALS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			\boxtimes	
b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?				
c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one- quarter mile of an existing or proposed school?				\boxtimes
d. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				
e. For a project located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?				
f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?			\boxtimes	
g. Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?			\boxtimes	

3.9.1 Impact Analysis

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

Construction Impacts

Construction activities associated with project improvements are expected to involve the routine transport, use, and disposal of hazardous materials (e.g., fuels, paints, and lubricants) that could pose a significant threat to human health or the environment if not properly managed. The transport, use, and disposal of hazardous materials during construction is regulated and enforced by federal and State agencies.

Workers who handle hazardous materials are required to adhere to Occupational Safety and Health Administration (OSHA) and Cal/OSHA health and safety requirements. During construction, hazardous materials must be transported in accordance with the Resource Conservation and Recovery Act (RCRA) and United States Department of Transportation regulations, stored in

accordance with the Unified Program enforced by local CUPAs, and disposed of in accordance with RCRA and the CCR at a facility permitted to accept the waste.

In accordance with the SWRCBs, a stormwater pollution prevention plan (SWPPP) must be prepared and implemented during construction for coverage under the Construction General Permit. As detailed in Section 3.10, Hydrology and Water Quality, the SWPPP requires implementation of BMPs for hazardous materials storage and soil stockpiles, inspections, maintenance, training of employees, and containment of releases to prevent runoff into existing stormwater collection systems or waterways.

Therefore, compliance with federal and State regulations reduces the risk of exposure to hazardous materials used during construction, as well as the accidental release of hazardous materials. Compliance with existing regulations is mandatory; therefore, construction of the proposed project is not expected to create a hazard to construction workers, the public, or the environment through the routine transport, use, disposal, or accidental release of hazardous materials. As a result, impacts related to the routine transport, use, disposal, or accidental release of hazardous materials during construction of the proposed project would be less than significant.

Operational Impacts

Operation and maintenance activities associated with the proposed project are expected to involve the routine use of diesel to power locomotives, and pesticides to clear vegetation from track areas, similar to current operations. Routine transport, use, and disposal of such hazardous materials could result in the exposure of workers, the public, and/or the environment to hazardous materials if the materials are not properly managed.

The transport, use, and disposal of hazardous materials during operation is regulated and enforced by federal and State agencies. Workers who handle hazardous materials are required to adhere to OSHA and Cal/OSHA health and safety requirements, which limit potential exposure of workers to hazardous materials by requiring appropriate administrative or engineering controls.

Pesticides use for vegetation removal near the tracks would be required to comply with California Department of Pesticide Regulation regulations, which are intended to protect human health and the environment. Hazardous materials must be transported in accordance with RCRA and United States Department of Transportation regulations; managed, stored, and used in accordance with the Unified Program enforced by Sacramento County Environmental Management Department; and disposed of in accordance with RCRA and the California Code of Regulations at a facility permitted to accept the waste.

Therefore, compliance with federal and State regulations and the Unified Program reduces the risk of exposure to hazardous materials. Compliance with existing regulations and the Unified Program is mandatory; therefore, operation and maintenance of the proposed project is not expected to create a hazard to the public or the environment through the routine transport, use, disposal, or accidental release of hazardous materials. As a result, impacts related to the routine transport, use, or disposal of hazardous materials during operation and maintenance of the proposed project analyzed in this environmental document would be less than significant.



This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

Construction Impacts

Construction of the proposed project would potentially involve the disturbance of existing hazardous materials in soil, ballast, groundwater, and building, roadway, and railroad structures, which could result in the release of hazardous materials into the environment. The potential sources of hazardous materials identified in the project area include soil and ballast.

Construction could include the removal and disposal of chemically treated railroad ties and the disturbance of soil and ballast potentially contaminated from operation of the existing railroad corridors. Construction of the proposed project would involve soil and ballast disturbance up to a depth of 50 feet (for pedestrian overcrossing piles), which could be deep enough to encounter groundwater in some locations. Therefore, construction could result in the disturbance of potentially contaminated soil, ballast, and/or groundwater, which could affect the health of construction workers and/or the public through direct contact or inhalation of contaminated dust particles; or could result in the release or migration of contaminants to the environment. The disturbance of potentially contaminated soil, ballast, and/or groundwater is a potentially significant impact.

Construction of the proposed project could also result in the disturbance and release of hazardous materials (e.g., lead-based paint in roadway striping) that could pose a health risk to construction workers, the public, and/or the environment if not handled and disposed of properly. Adherence to federal and State laws and regulations reduces the risk of exposure to and improper disposal of hazardous building materials. Compliance with existing laws and regulations is mandatory; therefore, the disturbance of hazardous materials during construction of the proposed project is not expected to create a hazard to construction workers, the public, and/or the environment. As a result, impacts related to the disturbance of hazardous materials during construction of the proposed project would be less than significant.

Operational Impacts

The proposed project does not involve an increase in rail service through the existing UPRR corridor. Operation of San Joaquins and ACE services through the project corridor would continue to comply with stringent federal and State protocols and regulations intended to reduce the likelihood of accident conditions. The risk of accident conditions, including the accidental release of hazardous materials, is therefore not expected to increase as a result of the proposed project.

As discussed in response 3.9.1(a) above, there is a robust framework of federal, State, and local regulations outside of CEQA that are applicable to the storage, use, and disposal of hazardous materials. Compliance with these regulations would reduce the likelihood of accidental spill or

releases due to mishandling or poor storage practices during project operations. Therefore, adherence to federal and State regulations and the Unified Program reduces the risk of accidental releases of hazardous materials. Compliance with existing regulations and the Unified Program is mandatory; therefore, operation and maintenance of the proposed project is not expected to create a hazard to the public or the environment through the accidental release of hazardous materials. As a result, impacts related to the accidental release of hazardous materials during operation and maintenance of the proposed project would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

The nearest school to the project site is the Sacramento Academic & Vocational Academy (SAVA), which is located 0.06 mile from the proposed surface parking lot. SAVA offers personalized curriculum for independent study and/or online courses. SAVA students receive one-on-one and small group learning opportunities and may not be in the facility on a daily basis. SAVA is located in a complex designated as Industrial Office Park (MP). The nearest school (based on City zoning designations) is Stone Lake Elementary School, located approximately 0.3 mile west of the project site. There are no existing or proposed preschools, elementary, middle, or high schools within one-quarter mile of the project site; therefore, there would be no impact related to hazardous emissions, materials, substances, or waste near schools.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

The provisions in Government Code Section 65962.5 are commonly referred to as the Cortese List. An online search of the Cortese List conducted on April 11, 2021, found no records within or adjacent to the project site (California Department of Toxic Substances 2021). No impact would occur.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

e. Would the project be located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

The nearest airport/airstrip to the project site is Borges-Clarksburg Airport, located approximately 2.5 miles west of the project site. Therefore, the proposed project would not result in a safety hazard associated with airports for people residing or working in the project area since it is not



located within 2 miles of a public airport or public use airport or in an airport land use plan. The maximum height of structures to be developed with the proposed project would be approximately 38 feet above grade, which would not exceed airport imaginary surfaces, obstruction standards, or other FAR requirements. Therefore, there would be no impact.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

f. Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Construction Impacts

During construction of the proposed project, staging areas and construction activities would primarily occur in the existing UPRR right-of-way, surface parking lot improvements, and the new signalized intersection along Dwight Road. There would be limited, temporary road closures, and road construction that could potentially cause increased traffic congestion in areas where emergency vehicles operate. These improvements could potentially disrupt traffic during construction activities and interfere with emergency response times. These impacts would be temporary and occur in stages. Additionally, traffic control plans would address any impacts related to access, as described in Section 3.16, *Transportation*. Therefore, construction of the proposed project would result in less-than-significant impacts to an adopted emergency response plan or emergency evacuation plan.

Operational Impacts

Traffic congestion from passengers driving to and from the proposed station site is not anticipated to cause delays to emergency vehicle response times. Emergency vehicles often identify and use multiple routes depending on time of day and traffic conditions. Peak-period traffic congestion generally does not result in delay for emergency vehicles, which have the right-of-way and often use multi-lane major arterials for access. Therefore, operation of the proposed project would result in less-than-significant impacts.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

g. Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

Construction Impacts

The proposed project is located within a Local Responsibility Area Non-Very High Fire Hazard Severity Zone according to the Fire Hazard Severity Zone Map for Sacramento County (CAL FIRE 2021). Zones are classified based on a combination of how a fire would behave and the probability of flames and embers threatening buildings, as well as the likelihood of the area burning. Construction of the proposed project would not occur in wildland fire risk areas. In addition, all

construction activities would be conducted in accordance with all requirements established by the City Fire Chief's office, local jurisdictions, and other applicable fire code regulation for the construction of the proposed project. Therefore, the impact would be less than significant.

Operational Impacts

Operation of the proposed project would not occur in a wildfire risk area. Nonetheless, operation of the new station would be in compliance with applicable building code and fire code regulations per City of Elk Grove requirements. These include installing sprinkler systems, installing and maintaining fire extinguishers and fire alarm systems, and using fire-retardant building materials. Therefore, the proposed project would not expose people or structures to a significant risk of loss, injury, or death involving wildland fires and this impact would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

3.10 HYDROLOGY AND WATER QUALITY

		Less Than		_
	Potentially	Significant with	Less Than	
	Significant	Mitigation	Significant	No
Mould the enginet.	Impact	Incorporated	Impact	Impact
Would the project:				
a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface groundwater quality?	or 🗌		\boxtimes	
b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater manageme of the basin?	nt 🗆			
c. Substantially alter the existing drainage pattern of the situarea, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:	e or			
i. Result in substantial erosion or siltation on- or off-site	; 🗆			
 Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- offsite; 	or		\boxtimes	
 Create or contribute runoff water which would exceed the capacity of existing or planned stormwater draina systems or provide substantial additional sources of polluted runoff; or 			\boxtimes	
iv. Impede or redirect flood flows?			\boxtimes	
d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?				\boxtimes
 Conflict with or obstruct implementation of a water quali control plan or sustainable groundwater management plan 				

3.10.1 Impact Analysis

a. Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?

Construction Impacts

The proposed project involves the construction of a station platform, rail siding, and mainline track within existing UPRR right-of-way. The project also involves the construction of a pedestrian overcrossing and a surface parking lot with access from Dwight Road to service the proposed station. The State Water Resources Control Board requires dischargers whose projects disturb 1 or more acres of soil, or whose projects disturb less than 1 acre but are part of a larger common plan of development that in total disturbs 1 or more acres, to obtain coverage under the General Permit for Discharges of Storm Water Associated with Construction Activity (Construction General Permit 99-08-DWQ). Effective July 1, 2010, all dischargers are required to obtain coverage under the Construction General Permit Order 2009-0009- DWQ adopted September 2, 2009. Construction activity subject to this permit includes clearing, grading, and disturbances to the ground such as stockpiling or excavation. BMPs would be included in the grading plans to minimize erosion potential and water quality degradation of the project area in accordance with Elk Grove Municipal

Code Title 16, Chapter 16.44, Land Grading and Erosion Control. Chapter 16.44 establishes administrative procedures, minimum standards for review, and implementation and enforcement procedures for controlling erosion, sedimentation, disruption of existing drainage, and related environmental damage caused by land clearing activities, grading, filling, and land excavation. Additionally, the State has published a set of BMPs for both pre- and post-construction periods, which would be applied to the project. Compliance with the provisions of the BMPs and with Elk Grove Municipal Code Chapter 16.44 would reduce impacts associated with water quality standards and discharge requirements to a less than significant level.

Operational Impacts

The project would introduce new impervious surfaces that would result in an increase of stormwater and/or dry weather runoff. The paved roadway access and parking lot would be located in areas that are currently paved with the exception of a swath of existing landscaping along Dwight Road. Impermeable surfaces from the concrete station platform and pedestrian overcrossing would replace permeable surfaces previously associated with the UPRR right-of-way; however, runoff would be able to percolate pervious lands adjacent to the proposed development.

New station platforms would be located within the UPRR right-of-way and would be regulated by stormwater discharge permits issued by the SWRCB. Stormwater runoff from station platforms would not generate significant levels of pollutants as the station platforms would have only foot traffic. Compliance with the post-construction stormwater performance standards of the Construction General Permit would be required for new station platforms, and would ensure that stormwater runoff from station platforms would not cause erosion and sedimentation in receiving waters. This impact would be considered less than significant with compliance with federal and State regulations.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

Construction Impacts

The project footprint is within the South American Subbasin which is a part of the larger Sacramento Valley Groundwater Basin. The Sustainable Groundwater Management Act is a landmark law that empowers local agencies to sustainably manage their groundwater and authorizes the SWRCB intervention if local agencies are unable to do so. The City does not directly manage groundwater supplies. The Sacramento Central Groundwater Authority manages groundwater in the Central Basin portion of the South American Subbasin. Among its many purposes, the Sacramento Central Groundwater Authority is responsible for managing the use of groundwater in the Central Basin to ensure long-term sustainable yield, and facilitating a conjunctive use program. The framework for maintaining groundwater resources in the Central Basin is the Sacramento County Water Agency



Groundwater Management Plan, which includes specific goals, objectives, and an action plan to manage the basin.

During construction, the project footprint would remain similarly pervious as it currently exists. Construction would introduce some temporary impervious surfaces including equipment and materials stored on site but would have minimal impact in the percolation of natural precipitation and overall recharge of the aquifer.

The proposed project may require groundwater dewatering activities in the event the project would excavate to a depth of anticipated groundwater. Therefore, construction impacts related to substantially decreasing groundwater supplies or interfering substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin could be potentially significant. Implementation of Mitigation Measure HYD-1 would reduce potential impacts related to dewatering and groundwater to a less-than-significant level.

Operational Impacts

Operation of the proposed project would not involve dewatering or any other use of groundwater that could deplete groundwater resources. Improvements associated with the station platform would involve the creation of new impervious surfaces that can impede groundwater recharge because stormwater would run off of the impervious surfaces rather than infiltrate the ground surface and recharge the aquifers. Improvements associated with the station platform would be required to comply with the post-construction requirements of the Construction General Permit, which requires post-construction runoff to match preconstruction runoff. Other proposed station improvements (e.g., parking lot, Dwight Road access modifications, and walkways) would be required to comply with local MS4 Permit requirements for stormwater control and treatment, which include low impact development source control, site design, stormwater treatment, and hydromodification management. Stormwater control and treatment systems may include vegetated swales, retention basins, biofiltration, and minimal impermeable surfaces to maintain predevelopment runoff rates, volumes, and quality and enhance infiltration and groundwater recharge. Furthermore, project improvements do not include drilling new groundwater wells. Compliance with permit regulations would ensure this impact would be less than significant.

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

Construction Impacts

Project-related construction that would substantially alter the existing drainage patterns in a manner that could result in substantial erosion or siltation is evaluated under response 3.10.1(a).

Operational Impacts

Project-related operation could increase the rate or amount of surface runoff; however, the incremental increase in surface runoff is not anticipated to result in flooding; create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems; or provide substantial additional sources of polluted runoff.

Based on a review of Natural Resources Conservation Service (NRCS) (2021) soil survey data, soils in the project area have a moderate-to-high stormwater runoff potential. New stormwater drainage improvements would be designed to accommodate increases in impervious surfaces within the project area.

The station platform would not be regulated under local MS4 Permits, because UPRR has their own stormwater discharge permits issued by the SWRCB. Stormwater controls within track areas would handle runoff from station platforms, and compliance with the post-construction stormwater performance standards of the Construction General Permit would ensure that the stormwater controls are designed so that runoff from station platforms would match existing runoff conditions (as required by the SWRCB).

Compliance with the regulatory requirements would ensure this impact would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

d. In flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation?

The proposed project would not be constructed in tsunami or seiche zones; therefore, there would be no impact from these hazards. Discrete portions of the existing UPRR corridor (such as the portion of the UPRR corridor adjacent to the Laguna West Drainage Channel) are located in a 500-year floodplain, while the remainder of the project area is located outside of 100-year and 500-year floodplains. As such, no construction and operational impacts would occur related to the risk of release of pollutants due to inundation.



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

The proposed project would not conflict with or obstruct the implementation of the sustainable groundwater management plan for the Sacramento Valley Groundwater Basin. The proposed project could conflict with or obstruct the implementation of the Central Valley Basin Plan as a result of increased stormwater runoff from new impervious surfaces. The increase in impervious surfaces is however not anticipated to challenge the capacity of existing storm drainage systems and/or result in increased pollutant transport. This impact would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

3.10.2 Mitigation Measure

Mitigation Measure HYD-1: Avoid water quality impacts from groundwater or dewatering discharges. Groundwater and dewatering effluent generated by temporary construction dewatering activities shall be contained by the construction contractor(s) in an appropriately sized storage tank and tested to determine whether the effluent is contaminated prior to discharging. Testing and discharging of the effluent shall be performed in accordance with the Construction General Permit, Permit for Construction Dewatering Activity (Order No. R5-2016-0079-01), RMP, and applicable resource agency permit requirements, including treating the effluent prior to discharge, if necessary.

If groundwater or dewatering effluent would be discharged to storm drainage systems (e.g., storm drains, conveyance pipes, canals, ditches, creeks, and rivers) in accordance with permit requirements, the discharge flow rates shall be limited to ensure that the capacity of storm drainage systems would not be exceeded by the discharge. The construction contractor(s) shall determine the capacity of storm drainage systems that would receive discharges by coordinating with the City of Elk Grove. The capacity of the storm drainage systems shall be determined for various times of year and various storm events. If the capacity of the storm drainage systems cannot be determined through coordination with the City of Elk Grove, evaluations of the capacity of the storm drainage systems that would receive discharges shall be performed and certified by a professional engineer. The discharge flow rates shall not exceed the capacity determined for various times of year and various storm events, as required by the City of Elk Grove.

If the effluent is not suitable for discharge to storm drains or directly to receiving waters, as discussed above, the effluent shall be discharged to sanitary sewer systems or transported for disposal at an appropriate offsite treatment or disposal facility. If the effluent would be discharged to a sanitary sewer, the appropriate permit shall be obtained from the local utility agency with jurisdiction over discharges to the sanitary sewer system, and permit criteria for discharging to the sewer shall be followed. These criteria include testing the effluent, the application of treatment technologies that would result in achieving compliance with the wastewater discharge limits, and discharging at or below the maximum allowable flow rate.

3.11 LAND USE AND PLANNING

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

3.11.1 Impact Analysis

a. Would the project physically divide an established community?

Construction Impacts

The proposed project would be constructed in the existing UPRR corridor (station platform, rail siding, main line track, and pedestrian overcrossing) and an existing parking lot (proposed surface parking lot) with access from Dwight Road. The project may impede traffic on Dwight Road during construction of the access to the surface parking lot; however, any impediment would be temporary. Construction activities that could temporarily disrupt and interfere with uses that contribute to community cohesion and identity would be less than significant.

Operational Impacts

The proposed project, including the addition of the platform and new track at the proposed station, would largely be constructed along and within the existing UPRR corridor. The proposed surface parking lot would be constructed on an existing parking lot in a light industrial zone. The UPRR corridor acts as an existing physical barrier within the community. Development of a station platform within the project area would not create a new physical division along the project corridor or substantially alter the existing operations along the tracks. Because the proposed improvements would be located entirely along this existing barrier, construction and operation of the proposed project would not create a new physical division within a community. In addition, proposed improvements that are along or within the UPRR corridor would not displace important facilities that contribute to a sense of community (e.g., neighborhood-serving and community-serving retail centers, parks, and public uses), and would not sever important thoroughfares that connect areas within an established community, and thus would not divide an established community. The proposed project would appear visually similar to existing development and would not contribute to a loss of community cohesion. Furthermore, the proposed improvements would not be of a scale or height that would introduce a substantial visual barrier that could also contribute to loss of community cohesion.



The surface parking lot, which would be located outside of the UPRR right-of-way, and the pedestrian overcrossing, which would be partially located outside the UPRR right-of-way, would not be of a size or vertical scale large enough to impede access or create barriers within the community. The improvements would be compatible with the surrounding land uses (e.g., reconfiguring an existing parking lot for the proposed project). The proposed pedestrian overcrossing would be adjacent to existing track and would not impede access to connectivity with the surrounding community. The proposed project would preserve road connectivity in the project vicinity and would not block access within the community. The proposed station would be adjacent to Sacramento Regional Transit routes along Laguna Boulevard and would provide connectivity between transit service and the proposed station. Therefore, the improvements associated with the proposed project would have a less-than-significant impact related to dividing an established community.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

Project improvements within the UPRR right-of-way are exempt from City of Elk Grove building and zoning codes and other land use ordinances. Construction and operation of the proposed project could conflict with the City of Elk Grove General Plan policies. The policies and standards included in the City of Elk Grove General Plan for which project components located outside the UPRR right-of-way (surface parking lot and pedestrian overcrossing) would be subject to are listed in Table 3.B. Many of these policies and standards are adopted for the purpose of restricting growth in planned areas and preventing development outside of established urban areas to prevent sprawl, support transit development, and prioritize infill development. Each relevant policy or standard is accompanied by a determination of the proposed project's potential to conflict or be inconsistent with each respective policy or standard. The proposed project would not result in inconsistencies with the City of Elk Grove General Plan. The impact would be less than significant.

Table 3.B: Project Consistency with City of Elk Grove General Plan Policy or Standard

Elk Grove General Plan Policy or Standard	Consistency Determination
Policy LU-5-2: Provide and implement regulations that encourage	Consistent. The proposed project would
high-quality signage, ensure that businesses and organizations can	include high-quality signage to direct
effectively communicate through sign displays, promote wayfinding,	motorists to the parking lot access.
achieve visually vibrant streetscapes, and control excessive visual	
clutter.	
Policy LU-5-3: Reduce the unsightly appearance of overhead and	Consistent. The proposed project would
aboveground utilities by requiring the undergrounding of appropriate	consider undergrounding utilities that would
services within the urban areas of the City.	be relocated as part of the project.
Standard LU-5-3.b: Require that existing overhead utility facilities be	Consistent. The proposed project would
undergrounded as a condition of project approval. This shall include	consider undergrounding utilities that would
electrical service lines under 69kV. Electrical service lines of 69kV and	be relocated as part of the project.
higher are encouraged to be undergrounded.	

Elk Grove General Plan Policy or Standard	Consistency Determination
Policy LU-5-4: Require high standards of architectural and site design,	Consistent. The final design for the proposed
and apply strong design controls for all development projects, both	station platform and pedestrian overcrossing
public and private, for the enhancement and development of	would consider inclusion of architectural
community character and for the proper transition between areas	features that would enhance the community
with different types of land uses. Design standards shall address new	character.
construction and the reuse and remodeling of existing buildings.	
Standard LU-5-4.a: Non-glare glass shall be used in all nonresidential	Consistent. The proposed project would use
buildings to minimize and reduce impacts from glare. Buildings that	non-glare glass and semi-reflective buildings
are allowed to use semi-reflective glass must be oriented so that the	such that reflection of sunlight is minimized.
reflection of sunlight is minimized. This requirement shall be included	-
in subsequent development applications.	
Policy RC-2-1: Coordinate with adjacent cities, counties, and the	Consistent. The proposed project would
Sacramento Area Council of Governments on local land use and	support transportation opportunities (rail) in
transportation planning efforts.	the City.
Policy RC-3-2: Ensure that decisions regarding transportation between	Consistent. The proposed project would
regions result in benefits to the Elk Grove community, including	develop a new rail station that would serve
decisions regarding regional roadways, airport, port, and passenger	the Elk Grove community.
and freight rail services.	,
Policy MOB-1-1: Achieve State-mandated reductions in vehicle miles	Consistent. The proposed project would
traveled (VMT) by requiring land use and transportation projects to	develop a new rail station that would serve
comply with the following metrics and limits. These metrics and limits	the Elk Grove community. It is projected that
shall be used as thresholds of significance in evaluating projects	the proposed project would reduce VMT.
subject to CEQA. Projects that do not achieve the daily VMT limits	
outlined below shall be subject to all feasible mitigation measures	
necessary to reduce the VMT for, or induced by, the project to the	
applicable limits. If the VMT for or induced by the project cannot be	
reduced consistent with the performance metrics outlined below, the	
City may consider approval of the project, subject to a statement of	
overriding considerations and mitigation of transportation impacts to	
the extent feasible, provided some other stated form of public	
objective including specific economic, legal, social, technological or	
other considerations is achieved by the project. (a) New Development	
– Any new land use plans, amendments to such plans, and other	
discretionary development proposals (referred to as "development	
projects") are required to demonstrate a 15 percent reduction in VMT	
from existing (2015) conditions. To demonstrate this reduction,	
conformance with the following land use and cumulative VMT limits is	
required: (i) Land Use – Development projects shall demonstrate that	
the VMT produced by the project at buildout is equal to or less than	
the VMT limit of the project's General Plan land use designation, as	
shown in Table 6-1, which incorporates the 15 percent reduction from	
2015 conditions. (ii) Cumulative for Development Projects in the	
Existing City-Development projects within the existing (2017) City	
limits shall demonstrate that cumulative VMT within the City including	
the project would be equal to or less than the established Citywide	
cumulative limit of 6,367,833 VMT (total daily VMT). (iii) Cumulative	
for Development Projects in Study Areas – Development projects	
located in Study Areas shall demonstrate that cumulative VMT within	
the applicable Study Area would be equal to or less than the	
established limit shown in Table 6-2. (ii) Be consistent with the	
regional projections and plans. The project shall be specifically	
referenced or listed in the region's MTP/SCS and accurately	
represented in the regional travel forecasting model. Qualifying	
transportation projects that are not consistent with the MTP/SCS shall	



Elk Grove General Plan Policy or Standard	Consistency Determination
also demonstrate that the cumulative VMT effect does not increase	,
regional VMT per service population.	
Policy MOB-3-1: Implement a balanced transportation system using a	Consistent. The proposed project would
layered network approach to building complete streets that ensure	include bicycle racks/lockers for cyclists, bus
the safety and mobility of all users, including pedestrians, cyclists,	bays for transit riders, and the access to the
motorists, children, seniors, and people with disabilities.	surface parking lot from Dwight Road would
	be designed to accommodate cyclists,
	pedestrians, and people with disabilities.
Policy MOB-3-2: Support strategies that reduce reliance on single-	Consistent. The proposed project The
occupancy private vehicles and promote the viability of alternative	proposed project would support
modes of transport.	transportation opportunities (rail) in the City
	and would include bus bays for transit riders.
Standard MOB-3-2.a: Require new development to install conduits for	Consistent. The proposed project would not
future installation of electric vehicle charging equipment.	preclude future development of stalls with
	electric vehicle charging equipment.
Policy MOB-3-7: Develop a complete and connected network of	Consistent. The proposed project would
sidewalks, crossings, paths, and bike lanes that are convenient and	include approximately 230 feet of frontage on
attractive, with a variety of routes in pedestrian-oriented areas.	Dwight Road, which would include sidewalks
, ,	and a signalized crosswalk at the proposed
	parking lot access on Dwight Road. The
	proposed project would not remove the
	existing bike lane on Dwight Road.
Policy MOB-3-8: Provide a thorough and well-designed wayfinding	Consistent. The proposed project would
signage system to help users of all modes of travel navigate the City in	include high-quality signage to direct
an efficient manner.	motorists to the parking lot access.
Policy MOB-3-12: Provide for safe and convenient paths and crossings	Consistent. The proposed project would
along major streets within the context of the surrounding area, taking	include approximately 230 feet of frontage on
into account the needs of the disabled, youth, and the elderly.	Dwight Road, which would include sidewalks
, , , , , , , , , , , , , , , , , , , ,	and a signalized crosswalk at the proposed
	parking lot access on Dwight Road. The
	proposed project would not remove the
	existing bike lane on Dwight Road.
Policy MOB-3-14: Regulate the provision and management of parking	Potentially Inconsistent. The EIR will evaluate
on private property to align with parking demand, with consideration	whether the proposed project would provide
for access to shared parking opportunities.	sufficient parking with the anticipated
O shirt is	ridership for the initial phase of the project.
Policy MOB-4-2: Provide on-site facilities and amenities for active	Consistent. The proposed project would
transportation users at public facilities, including bicycle parking	include bicycle racks/lockers for cyclists and
and/or storage and shaded seating areas.	shaded seating areas near the proposed
the state of the s	pedestrian overcrossing and station platform.
Policy GOV-1-1: Promote community involvement and public	Consistent. The proposed project would
participation.	include an extensive community involvement
F	process before, during, and after the
	publication of the environmental document.
Policy GOV-2-2: Reach out to segments of the community that could	Consistent. The proposed project would
potentially be left out of the decision-making process, including youth,	include an extensive community involvement
immigrants, minority racial and ethnic groups, nonnative English	process before, during, and after the
speakers, and low-income households.	publication of the environmental document.
Standard NR-1.2a: Require a biological resources evaluation for	Consistent. A biological resources evaluation
private and public development projects in areas identified to contain	has been conducted for the proposed project.
or possibly contain special-status plant and animal species.	The proposed project.
Policy NR-3-1: Ensure that the quality of water resources (e.g.,	Consistent. The proposed project would
groundwater, surface water) is protected to the extent possible.	protect water resources through compliance
G. T. E. T. E. S. J. San Labor Hatter, in production to the extent possible.	with regulatory permits.
	with regulatory permits.

Elk Grove General Plan Policy or Standard	Consistency Determination
Policy NR-3-2: Integrate sustainable stormwater management	Consistent. The proposed project would be
techniques in site design to reduce stormwater runoff and control	designed to reduce stormwater runoff and
erosion.	control erosion.
Standard NR-3-2.b: Roads and structures shall be designed, built and	Consistent. The proposed project would be
landscaped so as to minimize erosion during and after construction.	designed to minimize erosion during and after
	construction.
Policy NR-3-3: Implement the City's National Pollutant Discharge	Consistent. The proposed project would
Elimination System permit through the review and approval of	comply with the requirements of the NPDES
development projects and other activities regulated by the permit.	permit.
Policy NR-3-9: Reduce the amount of water used by residential and	Consistent. The proposed project would
nonresidential uses by requiring compliance with adopted water	implement water conservation measures in
conservation measures.	proposed project landscaping.
Policy NR-3-13: Advocate for native and/or drought-tolerant	Consistent. The proposed landscape plan
landscaping in public and private projects.	includes native and/or drought-tolerant
	landscaping.
Standard-4-1a: As part of the environmental review of projects that	Consistent. The proposed project includes an
are not exempt, the City shall identify the air quality impacts of	air quality impact analysis. The complete air
development proposals to avoid significant adverse impacts and	quality analysis will be included in the EIR.
require appropriate mitigation measures to the extent feasible and	
appropriate, potentially including—in the case of projects which may	
conflict with applicable air quality plans—emission reductions in	
addition to those required by Policy NR-4-1.	
Policy NR-4-5: Emphasize demand management strategies that seek to	Consistent. The proposed project would
reduce single-occupant vehicle use in order to achieve State and	include bus bays for transit riders.
federal air quality plan objectives.	
Policy NR-4-8: Require that development projects incorporate best	Consistent. The proposed project would
management practices during construction activities to reduce	implement best management practices
emissions of criteria pollutants.	during construction activities.
Standard NR-4-8.a: Require all future projects with construction	Consistent. The proposed project would
emissions to incorporate the Sacramento Metropolitan Air Quality	implement best management practices
Management District's (SMAQMD) Basic Construction Emission	during construction activities.
Control Practices as identified in the most current version of the	
SMAQMD CEQA Guide in effect at the time of construction.	
Standard NR-4-8.b: All projects with construction emissions exceeding	Consistent. The proposed project would
the SMAQMD ozone precursors thresholds shall implement enhanced	implement best management practices
exhaust control practices as identified in the most current version of	during construction activities.
the SMAQMD CEQA Guide in effect at the time of construction.	
Standard NR-4-8.c: All projects with construction emissions exceeding	Consistent. The proposed project would
the SMAQMD fugitive particulate matter (PM) thresholds shall	implement best management practices
implement enhanced fugitive PM dust control practices as identified in	during construction activities.
the most current version of the SMAQMD CEQA Guide in effect at the	
time of construction.	
Standard NR-4-8.d: For projects exceeding the SMAQMD NO_x and PM	Consistent. If the analysis to be included in
construction emissions thresholds that cannot be mitigated to less	the EIR identifies NO _x and PM construction
than significant with implementation of Standards NR-4-8.a, NR- 4-8.b,	emissions impacts, the project would pay a
and NR-4-8.c, the project shall pay a mitigation fee into the	mitigation fee into the SMAQMD's off-site
SMAQMD's off-site mitigation program.	mitigation program.
Policy NR-4-10: Require new air pollution point sources, such as	Consistent. The proposed project air quality
industrial, manufacturing, and processing facilities, to be located an	impact analysis to be included in the EIR
adaguata distance from residential areas and other consitive land	would include a toxic air contaminant analysis
adequate distance from residential areas and other sensitive land	1
uses.	of the proposed project relative to the residential areas.



Elk Grove General Plan Policy or Standard	Consistency Determination
Standard NR-4-10.a: Require the provision of buffers between	Consistent. The proposed project air quality
sensitive land uses and sources of odor and toxic air contaminants.	impact analysis to be included in the EIR
The City shall implement this policy when siting future sensitive land	would include a toxic air contaminant analysis
uses within the proximity of existing odor and toxic air contaminant	of the proposed project relative to the
sources or when siting new odor-producing or toxic air contaminant	residential areas.
generating land uses within the proximity of existing sensitive land	
uses.	
Policy NR-4-13: Minimize the exposure of sensitive land uses to	Consistent. The proposed project air quality
objectionable odors.	impact analysis to be included in the EIR
	would include an objectionable odor analysis
	of the proposed project relative to the
	residential areas.
Policy NR-6-3: Promote innovation in energy efficiency.	Consistent. Proposed project lighting would
	be designed for energy efficiency and have
	daylight sensors or be timed with an on/off
	program. Parking lot lighting would be
	designed to meet safety requirements.
Policy EM-1-2: Cooperate with other local, regional, State, and federal	Consistent. The proposed project would
agencies and with rail carriers in an effort to secure the safety of all	develop a new rail station that would serve
residents and businesses.	the Elk Grove community.
Policy ER-2-18: Drainage facilities shall be properly maintained to	Consistent. Any drainage facilities within the
ensure their proper operation during storms.	project area would be properly maintained to
	ensure proper operation during storm events.
Policy ER-3-2: Seek to ensure that new structures are protected from	Consistent. The proposed project would be
damage caused by geologic and/or soil conditions.	constructed in accordance with applicable
	federal transportation standards and the
	California Building Code to ensure that new
	structures are protected from damage caused
	by geologic and/or soil conditions.
Standard ER-4-1.a: Require, where appropriate, on-site fire	Consistent. As design progresses, the SJJPA
suppression systems for all new commercial and industrial	and SJRRC would coordinate with the City of
development to reduce the dependence on fire department	Elk Grove to discuss fire suppression systems
equipment and personnel.	at the new station platform, as appropriate.
Policy CIF-1-1: Facilitate recycling, reduction in the amount of waste,	Consistent. The proposed project would
and reuse of materials to reduce the amount of solid waste sent to	include separate trash and recyclable material
landfill from Elk Grove.	bins to facilitate recycling.
Policy N-1-4: Protect noise-sensitive land uses, identified in Table 8-3,	Consistent. The proposed project would
from noise impacts.	mitigate for impacts to noise-sensitive land
	uses.
Policy N-1-7: The standards outlined in Table 8-4 shall not apply to	Consistent. Construction of the proposed
transportation- and City infrastructure-related construction activities	project would occur between the hours of 7
as long as construction occurs between the hours of 7 a.m. and 7 p.m., $$	a.m. and 7 p.m., Monday through Friday, and
Monday through Friday, and 8 a.m. and 5 p.m. on weekends and	8 a.m. and 5 p.m. on weekends and federally
federally recognized holidays. Work may occur beyond these time	recognized holidays. Nighttime construction
frames for construction safety or because of existing congestion that	activities may be required.
makes completing the work during these time frames infeasible.	
Policy N-1-9: For projects involving the use of major vibration-	Consistent. In the event the proposed project
generating equipment (e.g., pile drivers, vibratory rollers) that could	requires the use of vibration generating
generate groundborne vibration levels in excess of 0.2 inches per	equipment, a project-specific vibration impact
second peak particle velocity, the City may require a project-specific	assessment may be prepared to analyze
vibration impact assessment to analyze potential groundborne	potential groundborne vibrational impacts.
vibrational impacts and may require measures to reduce ground	
vibration levels.	

kV = kilovolts

	Elk Grove General Plan Policy or Standard	Consistency Determination
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MTCO2e = Metric tons of carbon dioxide equivalent MTP/SCS = Metropolitan Transportation Plan/Sustainable Communities Strategy NO_x = nitrous oxide PM = particulate matter SMAQMD = Sacramento Metropolitan Air Quality Management District VMT = vehicle miles traveled



3.12 MINERAL RESOURCES

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

3.12.1 Impact Analysis

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

There are no mineral deposits or mineral extraction activities located within the City of Elk Grove (City Elk Grove 2019). No impact to mineral resources would occur.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

There are no mineral deposits or mineral extraction activities located within the City of Elk Grove (City of Elk Grove 2019). No impact to mineral resources would occur.

3.13 NOISE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project result in:				
a. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	\boxtimes			
 Generation of excessive groundborne vibration or groundborne noise levels? 	\boxtimes			
c. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				\boxtimes

3.13.1 Impact Analysis

The following federal, State, regional, and local regulations related to noise and vibration will be used to assess potential impacts of the proposed project and applicable mitigation.

Federal Standards

Noise Control Act of 1972

U.S. Environmental Protection Agency Railroad Noise Emission Standards

Federal Railroad Administration Guidelines and Noise Emission Compliance Regulation

Federal Transit Administration Guidelines

State Standards

California Noise Control Act

Regional and Local Standards

The SJJPA, a State joint powers agency, and the SJRRC propose improvements within and outside of the UPRR right-of-way. The Interstate Commerce Commission Termination Act (ICCTA) affords railroads engaged in interstate commerce considerable flexibility in making necessary improvements and modifications to rail infrastructure, subject to the requirements of the Surface Transportation Board. ICCTA broadly preempts State and local regulation of railroads, and this preemption extends to the construction and operation of rail lines. Therefore, activities in existing UPRR right-of-way are exempt from local building and zoning codes and other land use ordinances. Project improvements proposed outside of the UPRR right-of-way, however, would be subject to regional and local plans and regulations. Although ICCTA does broadly preempt State and local regulation of railroads, SJJPA and SJRRC intend to obtain local agency permits for construction of facilities that fall outside of the



UPRR right-of-way, even though SJRRC has not determined that such permits are legally necessary, and such permits may not be required. Project improvements occurring outside of the URRR right-of-way are subject to Sacramento County and City of Elk Grove Noise and Vibration standards, where applicable.

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

For projects similar to the proposed project, final construction plans are usually not available at this stage of the planning process. It is customary to analyze construction noise impacts at a general level and provide distance contours for potential impacts. It is expected that similar to the previously prepared *Valley Rail Sacramento Extension Draft and Final EIRs* (SJRRC 2020), construction noise would be potentially significant requiring mitigation in the form of a construction noise control plan. A Construction Noise Impact Assessment will be prepared as part of the proposed project EIR and will evaluate the proposed project's potential noise impacts.

The previously prepared *Valley Rail Sacramento Extension Draft and Final EIRs* determined that train operations in the vicinity of the previously proposed Elk Grove Station would not generate any noise impacts. Pursuant to this project, train operations would be consistent with the proposed service plan evaluated in the *Valley Rail Sacramento Extension Draft and Final EIRs*. The proposed project does not include an increase in train operations.

The proposed project would include the construction of a new station north of Laguna Boulevard. It is expected that the dominant noise source would be the trains operating at the station platform, which is included in the passenger service assessment. A screening assessment and impact evaluation will be conducted for nearby sensitive receptors.

These topics will be evaluated further in the EIR.

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

The previously prepared *Valley Rail Sacramento Extension Draft and Final EIRs* determined that train operations in the vicinity of the previously proposed Elk Grove Station would not generate any vibration impacts. Pursuant to this project, train operations would be consistent with the proposed service plan evaluated in the *Valley Rail Sacramento Extension Draft and Final EIRs*. The proposed project does not include an increase in train operations.

Similar to the analysis of construction noise impacts, it is customary to analyze construction vibration impacts at a general level and provide distance contours for potential impacts. It is expected that similar to the previously prepared *Valley Rail Sacramento Extension Draft and Final EIRs*, construction vibration would be potentially significant requiring mitigation in the form of a construction vibration control plan. A Vibration Impact Analysis will be prepared as part of the EIR and will evaluate the proposed project's potential vibration impacts.

This topic will be evaluated further in the EIR.

c. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

The nearest airport/airstrip to the project site is Borges-Clarksburg Airport, located approximately 2.5 miles west of the project site. The project site is not located within an airport land use plan or within 2 miles of a public airport, public use airport, or private airstrip. Therefore, due to the project site's distance from any airport, no impacts related to excessive airport noise would occur as a result of project implementation.



3.14 POPULATION AND HOUSING

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

3.14.1 Impact Analysis

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

Construction Impacts

Construction of the proposed project could temporarily induce local population growth through the employment of workers during the construction period. The source of the construction labor force is unknown at this time, but workers would be expected to come from the local labor in nearby Elk Grove and unincorporated Sacramento County. It is not anticipated that construction of proposed improvements would cause substantial population growth or a substantial increase in housing demand in the region. Furthermore, if construction workers from outside the region were employed during the construction period, the temporary nature of the work suggests that it would be unlikely for non-local workers to permanently relocate; this is typical for employees in the various construction trades. Therefore, this impact would be less than significant.

Operational Impacts

Transit stations are more likely to increase the attractiveness of developing the surrounding area if local land use policies and the character of the surrounding area are conducive to such development. The new station platform would provide accessibility, proximity to transit services, and may be an attractive benefit consistent with intensified development. The proposed station would be adjacent to Sacramento Regional Transit routes along Laguna Boulevard and would provide connectivity between transit service and the proposed station. Existing residential development is east and south of the proposed station in the City of Elk Grove. There are limited undeveloped parcels surrounded by either industrial uses or residential uses in the project vicinity. There are vacant lands north of the city limits within the County of Sacramento boundary; however, these lands are designated as Public/Quasi-Public and would require a General Plan amendment and rezone if developed with a growth-inducing use. Therefore, the proposed project would not induce new or unplanned growth in this segment around the station site and this impact would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

Implementation of the proposed project would not displace housing or people necessitating the construction of replacement housing elsewhere. The right-of-way required for the proposed surface parking lot currently supports a parking lot and not residential development. The right-of-way required for the proposed pedestrian overcrossing is located adjacent to the UPRR right-of-way and supports drainage and maintenance access. The proposed station platform, rail siding, and main line track would be developed in the existing UPRR right-of-way where no residential uses exist. The proposed project does not propose converting established residential areas to a non-residential land use. Therefore, no impact would occur.



3.15 PUBLIC SERVICES

		Less Than		
	Potentially Significant Impact	Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
i. Fire protection?			\boxtimes	
ii. Police protection?			\boxtimes	
iii. Schools?				\boxtimes
iv. Parks?				\boxtimes
v. Other public facilities?				\boxtimes

3.15.1 Impact Analysis

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

i. Fire protection?

The Cosumnes Fire Department provides fire protection services to the City of Elk Grove. The Department has a total of 8 fire stations serving an area of 157 square miles and population of more than 193,000 people. Emergency response is provided by 1 aerial ladder truck company, 7 rescue ambulance units, and 8 ALS ambulances engine companies (City of Elk Grove 2018b). The nearest station to the project area is Station 74, which is located within 2 miles east of the proposed station. As discussed in Section 3.14, Population and Housing, the proposed project would not result in a generation of a permanent residential population but could nevertheless increase demand for fire services. However, Cosumnes Fire Department could sufficiently meet potential increases in fire service demand due to operations of the project. Therefore, operational impacts related to the provision of new facilities as a result of increased demand for fire services would be less than significant.

ii. Police protection?

The Elk Grove Police Department services include: Field Services Division containing Patrol Teams, a Traffic Bureau, Traffic and Hit-and-Run Investigators, K-9 unit, Community Service Officers, Investigate Services Division, Administrative Services Division, and Support Services Division. The Department operates primarily out of two facilities located in the City Hall complex at 8380 and 8400 Laguna Palms Way. The service area is split into five police beats that are regularly patrolled.

The Elk Grove Police Department has an authorized strength of 141 sworn officers and 86 civilian personnel and responds to an average of 52,000 calls for service per year (City of Elk Grove 2018b). As discussed in Section 3.14, Population and Housing, the proposed project would not result in a generation of a permanent residential population but could nevertheless increase demand for police protection services. Increased passenger activities would not result in generation of a permanent residential population but would still increase demand for police services. However, security cameras would be used to monitor the parking lot and station platform and video feeds could be shared with the Elk Grove Police Department. Police service needs induced by the project are small enough to be covered by the existing police resources in the vicinity of the project; however, SJJPA and SJRRC would continue to coordinate with the Elk Grove Police Department to ensure a safe environment is maintained at the site. Therefore, operational impacts related to the provision of new facilities as a result of increased demand for police services would be less than significant.

iii. Schools?

The nearest school is Stone Lake Elementary School, located approximately 0.3 mile west of the project site. There are no existing or proposed preschools, elementary, middle, or high schools within one-quarter mile of the project site. The proposed project would not directly impact an existing or planned school facility nor would the proposed project result in growth-inducement requiring the development of additional school facilities. There would be no impact on schools.

iv. Parks?

The proposed project would be located adjacent to Zehnder Park, which is located at 9212 Edisto Way south of Laguna Boulevard. The proposed project would not directly impact an existing or planned park nor would the proposed project result in growth-inducement requiring the development of additional park facilities. There would be no impact on parks.

v. Other public facilities?

No public facilities (e.g., post office, library) are located adjacent to the proposed project area. The proposed project would not directly impact an existing or planned public facility nor would the proposed project result in growth-inducement requiring the development of additional public facilities. There would be no impact on public facilities.

Construction of the proposed project would occur in the existing UPRR corridor. However, access to the surface parking would require work in the Dwight Road right-of-way. The improvements at the Dwight Road access could potentially disrupt traffic during construction activities, and interfere with fire, emergency response, and police response times. However, construction activities in existing right-of-way would be temporary. Additionally, the improvements at the Dwight Road access would be subject to an encroachment permit from the City of Elk Grove. The encroachment permit would include a traffic control plan to address temporary road closures, detour provisions, allowable routes, and alternative access points (as needed). Coordination with the City would be required to avoid any conflicts with fire protection, law enforcement, and emergency responders' ability to



respond to calls, including identifying alternative routes, detour provisions, and allowable routes during construction activities. This impact would be less than significant.

3.16 RECREATION

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

3.16.1 Impact Analysis

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

The proposed project would be located adjacent to Zehnder Park, which is located at 9212 Edisto Way south of Laguna Boulevard.

Construction Impacts

Construction of the project would generate temporary construction workers. However, the construction workers are not anticipated to generate a permanent residential population, which would increase demand for existing parks or recreational facilities. Therefore, no construction impacts would occur related to increase use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated.

Operational Impacts

Operation of the project would generate passengers in the project area. Increased passengers would not result in generation of permanent residential population which would increase demand for existing parks and recreational facilities. Therefore, no operational impacts would occur related to increase use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

The project does not include new recreational facilities or the expansion of existing recreational facilities. Therefore, no construction or operational impacts would occur.



3.17 TRANSPORTATION

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

3.17.1 Impact Analysis

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

The proposed project would generally enhance the overall circulation system by providing connectivity between regional rail service and local transit service. The proposed station would include bus bays for connecting bus services, as well as improvements to Dwight Road as needed to provide adequate multi-modal access to and from the station.

Design, construction, and operation of the proposed project would also comply with applicable standards from the City of Elk Grove (for changes to the local roadway network) and from FRA and/or California Public Utilities Commission (CPUC) (for the project's rail elements). Design approval for specific project components would be sought from the appropriate agencies as part of detailed design and subsequent stages of the proposed project.

Detailed discussion of potential impacts to specific components of the circulation system is provided below.

Transit

Analysis of a project's transportation impacts should consider effects on transit access or operations, but the addition of new transit users is generally not considered an adverse impact, as significance criteria for evaluating a project's transportation impacts must promote GHG emissions reductions and the "development of multimodal transportation networks," as described above. However, increased ridership could result in indirect significant impacts if demand requires new or additional transit infrastructure (Governor's Office of Planning and Research 2018).

The proposed project would introduce rail service to the Elk Grove community.



SJJPA and SJRRC would also coordinate with Sacramento Regional Transit to ensure that adequate connecting transit service is provided at the proposed station.

Overall, the proposed project would be consistent with the vision of applicable programs, plans, ordinances, and policies such as the 2018 California State Rail Plan (Caltrans 2018).

Bicycles and Pedestrians

Access improvements under the proposed project would enhance bicycle and pedestrian safety and access and encourage activate transportation, through upgrades to existing bicycle/pedestrian facilities. Proposed improvements would be designed to integrate with and enhance existing bicycle and pedestrian connections and would not negatively affect the safety or quality of these existing facilities. The proposed project would also include bicycle parking/storage at stations to improve multi-modal access.

VMTs

As discussed in response 3.17.1(b), the proposed project would reduce VMT and associated GHG emissions by inducing a mode shift from automobiles to environmentally sustainable public transit.

Roadways

The proposed project would likely result in increased traffic levels in the vicinity of station site, but this would be balanced by reduced traffic levels along roadway routes running parallel to the project alignment. The proposed project would reduce VMT by inducing a mode shift from automobiles to public transit, which would decrease traffic congestion along parallel roadways such as Interstate 5 and State Route 99, benefitting traffic operations and goods movement along these corridors.

Given that the proposed station platform, pedestrian overcrossing, and track improvements would be constructed largely within UPRR right-of-way and the proposed parking lot is located outside of public right-of-way, no major road closures or detours are anticipated during construction. There may be temporary and partial roadway closures (e.g., overnight or weekend) to accommodate specific activities such development of the roadway improvements within Dwight Road, but these closures would be coordinated with the City of Elk Grove to minimize disruptions to the circulation system.

Freight Rail

The project could result in significant indirect impacts related to air quality, noise, or GHG emissions if project construction or operation disrupts existing freight rail operations such that freight traffic is diverted to other modes (e.g., trucks). However, construction and operation of the project in the UPRR right-of-way would comply with relevant UPRR guidelines and requirements. Substantial disruptions to freight rail operations are unlikely given the minimal existing and expected future freight train activity along the Sacramento Subdivision. Some temporary and minor disruptions could still occur during project construction, such as nighttime track closures/shutdowns, slow zones, and other effects.

Regular coordination meetings between SJJPA/SJRRC and UPRR would take place throughout the entire design and construction stages of the project, and would address construction-related effects on existing freight operations, such as scheduling of construction activities in the right-of-way.

Servicing of local freight customers by UPRR would be given priority, and a memorandum of understanding (MOU) would be in place between SJJPA/SJRRC and UPRR to address project construction activity. The MOU would also include operating protocols, track-sharing arrangements, and other provisions. Rail elements of the proposed project, such as reconstruction of track curves to allow for higher speeds, replacement of existing track, and new or expanded sidings, would also generally benefit freight rail operations and safety.

Project improvements would generally conform to and support—and not conflict with—programs, plans, ordinances, and policies addressing the circulation system, and the associated impacts of operation of the proposed project related to the regulatory setting would be less than significant. However, in recognition of potential disruptions to the circulation system during construction of the proposed project, the associated impacts of construction have been conservatively deemed potentially significant. However, implementation of Mitigation Measures TRANS-1 and TRANS-2 would reduce these potentially significant construction-related project impacts to a less-than-significant level.

Although this impact has been determined to be less than significant with mitigation, given the developing design of the parking lot and proposed intersection, this topic will be analyzed in the EIR .

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

CEQA Guidelines section 15064.3, subdivision (b) specifies applicable criteria for analyzing transportation impacts. Specifically, it states the following:

Transportation projects that reduce, or have no impact on, vehicle miles traveled should be
presumed to cause a less than significant transportation impact. For roadway capacity
projects, agencies have discretion to determine the appropriate measure of transportation
impact consistent with CEQA and other applicable requirements.

The proposed project is a transportation project (specifically a transit project) and would reduce VMT by inducing a mode shift from personal (household) automobiles to public transit, including for long-distance commute and intercity trips. The proposed project would not conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b), and this impact would be less than significant; no mitigation is required.



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

The proposed project would involve construction and operation of new passenger rail service in the Elk Grove community, including a station platform, rail siding, and new mainline track. Proposed improvements would largely be in or adjacent to the existing active rail right-of-way (the UPRR's Sacramento Subdivision) currently in use by freight trains.

Design, construction, and operation of the proposed project, including track improvements, stations, and other components, would comply with applicable standards from the Federal Railroad Administration and/or the California Public Utilities Commission. Similarly, design, construction, and operation of the project access improvement at Dwight Road would adhere to applicable standards, such as City of Elk Grove design guidelines and specifications.

Design approval for specific project components would be sought from the appropriate agencies as part of detailed design and subsequent stages of the proposed project.

Given these considerations, the proposed project would not substantially increase hazards due to a geometric design feature or incompatible uses, and this impact would be less than significant; no mitigation is required.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

d. Would the project result in inadequate emergency access?

Construction of the proposed project would occur in the existing UPRR corridor. However, access to the surface parking would require work in the Dwight Road right-of-way. The improvements at the Dwight Road access could disrupt traffic during construction activities, and interfere with fire, emergency response, and police response times. However, construction activities in existing right-of-way would be temporary. Additionally, the improvements at the Dwight Road access would be subject to an encroachment permit from the City of Elk Grove. The encroachment permit would include a traffic control plan to address temporary road closures, detour provisions, allowable routes, and alternative access points (as needed). Coordination with the City would be required to avoid any conflicts with fire protection, law enforcement, and emergency responders' ability to respond to calls, including identifying alternative routes, detour provisions, and allowable routes during construction activities. This impact would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

3.17.2 Mitigation Measures

TRANS-1: Transportation Management Plan for project construction. The San Joaquin Joint Powers Authority (SJJPA) and the San Joaquin Regional Rail Commission (SJRRC) shall coordinate with the City of Elk Grove Public Works Department to develop a transportation management plan that shall mitigate construction impacts to transit, roadway, bicycle, and pedestrian facilities, while allowing

for expeditious completion of construction. Measures that shall be implemented throughout the course of project construction shall include, but not be limited to, the following:

- Limit number of simultaneous street closures and consequent detours of transit and automobile traffic in each immediate vicinity, with closure timeframe limited as much as feasible for each closure, unless alternative routes are available.
- Implement traffic control measures to minimize traffic conflicts for all roadway users (regardless of mode) where lane closures and restricted travel speeds will be required for longer periods.
- Provide advance notice of all construction-related street closures, durations, and detours to local jurisdictions, emergency service providers, and motorists.
- Provide safety measures for motorists, transit vehicles, cyclists, and pedestrians to ensure safe travel through construction zones.
- Limit sidewalk (and pedestrian walkway/path) and bikeway closures to one location in each
 vicinity at a time, with closure timeframe limited as much as feasible for each closure, unless
 alternative routes are available.
- Provide designated areas for construction worker parking wherever feasible to minimize use
 of parking in residential or business areas.

TRANS-2: Freight rail disruption control plan for project construction. SJJPA and SJRRC shall make efforts to contain and minimize disruption to freight services during project construction, while allowing for expeditious completion of construction. Measures that shall be implemented throughout the course of project construction shall include, but shall not be limited to, the following:

- Limit number of simultaneous track closures in each immediate vicinity, with closure timeframe limited as much as feasible for each closure, unless bypass tracks or alternative routes are available.
- Provide safety measures for freight rail operations through construction zones.
- Require contractors to coordinate with rail dispatch to minimize disruption of rail service in the corridor.
- Where feasible, maintain acceptable service access for freight operations.
- Where one open track cannot be maintained for freight use, limit multi-track closures to one location at a time, as much as feasible.
- Where multi-track closures result in temporary suspension of freight rail service, work with UPRR and freight users to schedule alternative freight service timing to minimize disruption



to freight customers. Where such closures will result in substantial diversion to trucks, SJJPA and SJRRC or their construction contractor(s) shall coordinate with local jurisdictions and freight carriers to determine preferred truck routes to minimize the effect on the circulation system.

- Provide advance notice of construction-related track closures to all affected parties.
- Coordinate with UPRR in advance and during any potential disruption to freight operations and/or UPRR facilities, and maintain emergency access for UPRR for the duration of construction.

3.18 TRIBAL CULTURAL RESOURCES

	Less Than				
	Potentially Significant Impact	Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact	
Would the project:					
a. Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:					
 Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k)? Or 			\boxtimes		
ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.					

3.18.1 Impact Analysis

- a. Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:
 - i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k)? Or
 - ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

As mentioned in Section 3.5, Cultural Resources, SJRRC conducted tribal consultation in accordance with Public Resources Code 21080.3.1 (AB 52). The records search did not identify any pre-contact (tribal) resources within the project area, and no such resources were identified during the field survey. No resources listed or eligible for listing the California Register of Historical Resources were identified. On April 5, 2021, LSA sent a letter describing the project with maps depicting the project site to the NAHC and requesting review their Sacred Lands File for any Native American cultural resources that might be affected by the project. The NAHC informed LSA that a search of the Sacred



Lands File yielded "negative results" and provided a list of Native Americans who might have additional information or concerns about the project.

On June 3, 2021, SJRRC sent a letter to 11 tribal representatives of the Me-Wuk, Miwok, and Maidu Miwok per AB 52 describing the project with maps depicting the APE. To date, SJRRC has received no response from the tribal representatives. Implementation of Mitigation Measures CUL-1 through CUL-4, as presented in Section 3.5, Cultural Resources, would further reduce any potentially significant impacts from the proposed project to tribal cultural resources (including human remains, which may be inadvertently discovered during construction activities) to less than significant with mitigation incorporated.

3.19 UTILITIES AND SERVICE SYSTEMS

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

3.19.1 Impact Analysis

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

Construction Impacts

Construction of the proposed project may affect existing overhead and underground utilities. Construction of rail siding and new mainline track would involve grading for the track subgrade with graders and excavators and the placement of subballast and ballast. Track construction could conflict with existing utility lines. Construction activities associated with station platforms and parking lots would involve rough grading. Grading may disturb underground utilities. As described in Section 1.0, Project Information, construction of the proposed project would require the relocation of existing utilities. Other utilities in the study area footprint would be protected in-place. It is possible that relocation or accidental disruption during construction could disrupt utility service or damage utilities, resulting in a potentially significant impact on utilities infrastructure.

Water and Wastewater

Local water providers have available capacity to serve the temporary, incremental demands associated with construction of the proposed project. Therefore, construction of the proposed project would not result in relocation or construction of new or expanded water or wastewater

facilities. As discussed in response 3.19.1(b), it is expected that local water providers would have sufficient water supplies available to serve construction in normal, dry, and multiple dry years.

Stormwater Drainage

Construction of the proposed project would result in grading, trenching, and other ground disturbance that could temporarily change drainage patterns in the vicinity of the environmental footprint. SJRRC would implement a SWPPP as required by the NPDES program administered by the Central Valley Regional Water Quality Control Board. The SWPPP would prevent ponding and ensure that stormwater runoff during construction would be controlled and would not require construction or expansion of new water treatment facilities.

Other Utilities

The electric power required for construction would be minimal and would not be expected to require the construction of new or expanded electric power facilities. Natural gas is not expected to be used in construction and no new telecommunications facilities would be required for construction activities.

Operational Impacts

As described in Section 3.13, *Population and Housing*, construction of the proposed project would not directly or indirectly result in construction of new homes or other residential units, new jobs, or otherwise induce growth that would increase the population in the surrounding cities and communities.

Water and Wastewater

Operation of the proposed project would result in increased use of water for landscaping in the proposed surface parking lot. The proposed station platform would not include restrooms. Therefore, the project would not result in construction of new or expanded water or wastewater treatment facilities.

Stormwater Drainage

Typically, railroad tracks permit water to percolate through to the ground. As such, proposed siding track and new mainline track would not result in the creation of substantial new areas of impervious surface, and increases in stormwater runoff would be minimal. Installation of stormwater drainage or retention infrastructure would not be required along the tracks. It should be noted that the proposed surface parking lot and access road are currently paved and would not introduce new impervious surfaces. The construction of the station platform would result in new paved areas that could potentially change drainage patterns and result in increased stormwater runoff due to the addition of impervious surfaces. Stormwater infrastructure would be installed or reconfigured as necessary to serve these new and/or modified impervious surfaces. Such infrastructure would connect to the local storm drain system in areas with existing storm drain facilities.

If the proposed project requires construction of stormwater facilities or expansion of existing storm drains, the design of these facilities would comply with the City's storm design standards and post-construction stormwater control requirements. Design of stormwater facilities consistent with municipal requirements would ensure that stormwater generated by the proposed project is managed to meet the performance requirements.

Other Utilities

Electric power for project improvements would be provided by SMUD. It is assumed that SMUD's existing electric power facilities would be able to accommodate the slight increase in electricity demand from the new station platform as the utility generates power from various sources and provides connections to the larger power grid. SJRRC would continue to evaluate electrical demand with SMUD as part of overall coordination activities between SJRRC and SMUD.

Although local connections to electric transmission facilities may be necessary, the amount of electricity needed for project improvements is not anticipated to result in the need for new or expanded electric power facilities, and thus impacts from operation of the proposed project would be less than significant.

The project area is in PG&E's natural gas service area. The use of natural gas for the proposed project is not anticipated; therefore, new or expanded natural gas facilities would not be required, and thus impacts from operation of the proposed project would be less than significant.

New telecommunications facilities owned and operated by SJRRC or train operators would be required for safety and communication with trains and operations and are included as part of the proposed project. These facilities would generally be located in the existing UPRR right-of-way and away from known sensitive areas to avoid impacts on cultural and biological resources and known hazardous materials. Because the new telecommunications facilities would be owned and operated by SJRRC or train operator for train usage only, operation of the proposed project would not require construction or expansion of other private or public telecommunications facilities. Therefore, impacts from operation of the proposed project would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

Construction Impacts

Construction of the proposed project would require water use for concrete work, earthwork compaction, dust control, and irrigation. The construction contractor would haul water to the construction site via truck and could fill their water trucks from local hydrants. The temporary increases in demand for water during construction would be necessary for concrete work, earthwork compaction, dust control, and temporary irrigation of reseeded areas and the associated



generation of wastewater. However, water use during construction would be temporary and would not place a long-term demand on local service providers.

Operational Impacts

As stated above, operation of the proposed project would result in increased use of water associated with surface parking lot landscaping. Increased water use for landscaping and maintenance at the project site would not substantially increase water demand at the proposed project site. The proposed station platform would not include restrooms. Project operations would not require expansion of the existing water infrastructure that would serve the proposed project.

As the water providers in the project area that may serve the proposed project currently have capacity for existing and future demand, water generation from operation of the project would not result in relocation or construction of new or expanded water treatment facilities. The local water provider would have sufficient water supplies available to serve the proposed project and reasonably foreseeable future development during normal, dry, and multiple dry years. Therefore, impacts would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

Construction Impacts

During construction of the proposed project, construction contractors would provide portable toilets at the construction site. The wastewater would be hauled off site and dumped at a wastewater treatment facility. This source of wastewater would be temporary during construction and would not necessitate the relocation or construction of new wastewater treatment facilities.

The small amount of wastewater created during construction (from portable restroom facilities) could be accommodated by wastewater treatment facilities in the project area; wastewater treatment providers in the project area would be expected to determine that they have adequate capacity. Therefore, the impact on public water or wastewater services and facilities during construction of the proposed project would be less than significant.

Operational Impacts

The proposed station platform would not include restrooms. Project operations would not require expansion of the existing wastewater infrastructure that would serve the proposed project.

As the wastewater providers in the project area that may serve the proposed project currently have capacity for existing and future demand, wastewater generation from operation of the project would not result in relocation or construction of new or expanded wastewater treatment facilities.

The local wastewater provider would have sufficient capacity to serve the proposed project and reasonably foreseeable future developments. Therefore, impacts would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

Construction Impacts

During construction activities, typical construction and demolition waste would be generated. Activities such as ground clearing, right-of-way work, and surface parking lot construction would generate gravel, concrete, rubble, fill, and different types of building materials. State and local standards, including CALGreen, require that contractors divert construction and demolition waste from landfills by reusing or recycling construction and demolition materials. Materials that cannot be reused onsite would be conveyed to a solid waste facility that is permitted to accept construction and demolition waste. Construction and demolition waste would likely be hauled to the Sacramento County Kiefer Landfill, the facility nearest the project area. The Sacramento County Kiefer Landfill is permitted for 10,815 tons per day and has a remaining capacity of 112,900,000 cubic yards; the landfill is projected to be in operation until 2064 (CalRecycle 2021). Compliance with CALGreen requirements would assist in the attainment of solid waste reduction goals. Therefore, solid waste generated by construction of the proposed project would not be in excess of state or local standards or the capacity of local infrastructure and would not violate statutes and regulations related to solid waste. Thus, construction of the proposed project would have a less than significant impact related to solid waste.

Operational Impacts

The proposed station platform and surface parking lot would house trash cans for disposal of solid waste by passengers. Solid waste could occasionally be generated as part of routine track maintenance and would be diverted as required by the appropriate federal, state, and local regulatory guidance.

Solid waste generated by operation of the proposed project could be accommodated with the existing capacity of the Sacramento County Kiefer Landfill, which has available capacity as discussed above. The amount of solid waste that the project improvements would generate would be a small percentage of the remaining capacity of the landfill. The additional round-trips per day included in the proposed project would result in an increase in the number of passengers boarding and exiting at the proposed station platform. The increase in passengers would result in a marginal increase in solid waste disposal at the station. Similar to San Joaquin trains, ACE trains generated approximately 0.5 ton of waste per station per month in 2015 (San Joaquin Regional Rail Commission 2018). Existing ACE ridership is approximately one-half that projected for the proposed project. Therefore, a conservative estimate of passenger waste generated by the proposed project would be approximately 1 ton of waste at the proposed station platform per month. This is the equivalent to a



maximum daily rate of 0.03 ton, which is far below the maximum permitted quantity at the Sacramento County Kiefer Landfill.

Material reuse and recycling would be implemented as standard practice at the proposed project site in compliance with the Integrated Waste Management Act, thereby reducing waste being transferred to landfills. Solid waste generated by operation of the proposed project would not be in excess of state or local standards or the capacity of local infrastructure and would not violate statutes and regulations related to solid waste. Thus, impacts related to solid waste would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

Construction and operation of the proposed project would meet the requirements of applicable federal, state, and local statutes for regulating solid waste. Material reuse and recycling would be implemented as standard practice at the station in compliance with the Integrated Waste Management Act, thereby reducing waste being transferred to landfills. Solid waste generated by operation of the proposed project would not be in excess of state or local standards or the capacity of local infrastructure and would not violate statutes and regulations related to solid waste. Thus, impacts related to solid waste would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

3.20 WILDFIRE

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

3.20.1 Impact Analysis

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

The proposed project would result in construction activities that could temporarily affect Dwight Road because of lane closures or narrowing for roadway and/or utility improvements. This could affect emergency response times or evacuation routes; however, the project contractor would coordinate with emergency service providers to inform them of potential lane closures during project construction activities. Once operational, the proposed project would not interfere with any emergency response plan or emergency evacuation plan. This impact would be less than significant.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

The proposed project is located on flat terrain, but given the routine fire breaks maintained within the UPRR corridor, the proposed project is not anticipated to result in an increased risk of uncontrolled spread of a wildfire. The proposed project is located within a Local Responsibility Area Non-Very High Fire Hazard Severity Zone according to the Fire Hazard Severity Zone Map for Sacramento County (CAL FIRE 2021). Zones are classified based on a combination of how a fire would behave and the probability of flames and embers threatening buildings, as well as the likelihood of the area burning. Construction of the proposed project would not occur in wildland fire



risk areas. In addition, all construction activities would be conducted in accordance with all requirements established by the County Fire Marshall's office, local jurisdictions, and other applicable fire code regulation for the construction of the proposed project. Therefore, the impact would be less than significant, and no mitigation is required.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

The proposed project includes the construction of a station platform, rail siding, new mainline track, pedestrian overcrossing, and a surface parking lot with access from Dwight Road. The proposed project would not include new infrastructure that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment. Additionally, construction of the proposed project would not occur in wildland fire risk areas. No impact would occur.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

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

The terrain of the project is relatively flat, and the project is not in an area with potential to expose people or structures to significant risks, including downslope or downstream flooding of landslides, because of runoff, post-fire slope instability, or drainage changes. Therefore, no construction or operational impacts would occur that would expose people or structures to significant risks, including downslope or downstream flooding or landslides, because of runoff, post-fire slope instability, or drainage changes.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.

3.21 MANDATORY FINDINGS OF SIGNIFICANCE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?				
 b. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.) 	\boxtimes			
c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?				

3.21.1 Impact Analysis

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

Mitigation measures BIO-1 through BIO-5 would reduce any potential impacts related to degrading the quality of the environment, substantially reducing the habitat of a fish or wildlife species, causing a fish or wildlife population to drop below self-sustaining levels, threatening to eliminate a plant or animal community, substantially reducing the number or restrict the range of a rare or endangered plant or animal to less than significant.

Mitigation measures CUL-1 through CUL-4 and GEO-2 would reduce any potential impacts related to eliminating important examples of the major periods of California history or prehistory to less than significant. Therefore, impacts would be less than significant with mitigation incorporated.

This topic will not be analyzed further in the EIR unless new information is presented during the scoping process that indicates a potentially significant impact could occur.



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

Section 15065(a)(3) of the CEQA Guidelines states that a project's cumulative impacts are the possible environmental effects that may be cumulatively considerable when considered with other reasonably foreseeable projects. Cumulatively considerable impacts occur when the incremental effects of a particular project or program are significant when viewed in connection with the effects of other past, current, or reasonably foreseeable future projects. Section 15355 of the CEQA Guidelines defines a cumulative impact as an impact which is created as a result of the combination of the project evaluated in the CEQA document together with other projects causing related impacts. With the exception of air quality and noise impacts, the impacts of the proposed project would be individually limited and would not be cumulatively considerable. The proposed project would include the construction of a station platform, rail siding, new mainline track, surface parking lot, and a pedestrian overcrossing. The impacts of the proposed project would be localized and confined to the immediate project area. Therefore, when project-specific impacts are viewed in conjunction with other closely related past, present, or reasonably foreseeable future projects, impacts of the proposed project (excluding air quality and noise impacts) would not be considerable. The EIR will evaluate the project's contribution to cumulatively considerable air quality and noise impacts.

This topic will be evaluated further in the EIR.

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

This Initial Study includes a comprehensive evaluation of the potential impacts to human beings, directly or indirectly, during construction and operations. Based on this evaluation, impacts related to causing a substantial adverse effect on human beings, either directly or indirectly, would be less than significant with mitigation incorporated.

The project would provide benefit to the Elk Grove community by offering direct connectivity to ACE and San Joaquins lines.

This topic will be evaluated further in the EIR.

4.0 LIST OF PREPARERS

This Initial Study was prepared by LSA in cooperation with the other members of the environmental study team. The Initial Study technical team members provided technical expertise, as presented below.

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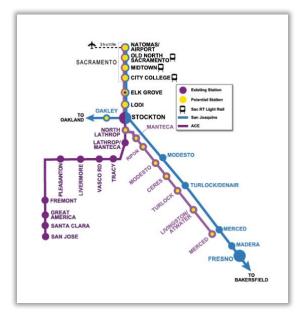
APPENDIX B

NOTICE OF PREPARATION COMMENT LETTERS AND SUMMARY



Project Overview

The San Joaquin Joint Powers Authority (SJJPA) and the San Joaquin Regional Rail Commission (SJRRC), which manage the Amtrak San Joaquins and the Altamont Corridor Express (ACE), respectively, are jointly partnering on the proposed Valley Rail Sacramento Extension Project, a new passenger rail service between Stockton and Sacramento which is planned to be operational by 2024. This proposed project will expand Amtrak San Joaquins and ACE passenger rail services to the greater Sacramento region with new rail stations and train track improvements along the Union Pacific Railroad's Sacramento Subdivision.



The Valley Rail Sacramento Extension Project which five new stations between Stockton and Sacramento

To do this, the SJJPA and the SJRRC are undertaking the planning, preliminary design, and environmental review for the proposed Elk Grove Station Project. The proposed project would construct a passenger rail station and siding track in the City of Elk Grove to support the new passenger rail service between Stockton and Sacramento. Overall station improvements include the construction of a new platform, a new surface parking lot, a pedestrian overcrossing linking the station to the surface parking lot, removal of approximately 3,900 feet of existing Union Pacific Railroad (UPRR) track, construction of about 3,900 feet of new UPRR mainline track, and up to 10,000 linear feet of rail siding. The project study limits along UPRR are from just south of Elk Grove Boulevard to Big Horn Boulevard.

The proposed station platform just north of Laguna Boulevard would be located along the existing UPRR Sacramento Subdivision, which is the UPRR rail line that extends from Marysville in the north and Stockton in the south. The station platform would be unattended and include passenger amenities, such as passenger shelters, benches, lighting, security cameras, signage, ticketing machines, bicycle storage facilities, landscaping, and emergency call boxes.

The surface parking lot for the Elk Grove Station would be constructed on an adjacent approximately 3.0-acre site fronting Dwight Road north of the intersection of Dwight Road and Laguna Boulevard. The station parking lot site currently serves as an RV parking lot for an adjacent self-storage facility at the corner of Dwight Road and Laguna Boulevard. The proposed

project would require constructing a 10,000-foot-long siding track to accommodate the operational requirements UPRR needs to allow passenger service to run in this corridor with a new station in Elk Grove. The proposed siding track would start just south of Elk Grove Boulevard and extend south of Big Horn Boulevard.



The Proposed Elk Grove Station and Parking Lot Location

Open House Overview & Format

The San Joaquin Regional Rail Commission hosted an initial virtual community open house on Thursday, August 26, 2021, from 5:30 to 7:00 p.m. for Elk Grove residents and other interested parties to provide information about the proposed Elk Grove Station, notify participants of the initiation of the environmental scoping process and give interested agencies, organizations, and individuals an opportunity to ask questions and provide their input on this project. To provide formal scoping comments, participants were directed to send an email to elkgrovestation@gmail.com or mail to San Joaquin Regional Rail Commission to the attention of Elk Grove Station Project NOP, 949 E. Channel Street, Stockton, CA 95202.

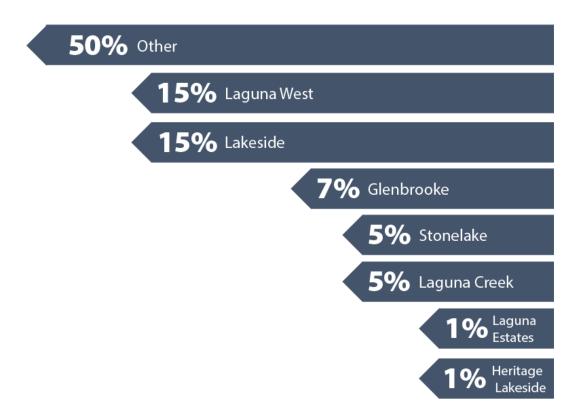
The open house was held online through Zoom and 270 individuals showed interest by registering and approximately 130 community members attended the meeting. The open house began with welcoming remarks from the project team, the City of Elk Grove Mayor Bobbie Singh-Allen, District 1 Councilmember Darren Suen, and District 2 Councilmember and SJJPA Chair Patrick Hume. Following the



Screenshot of the Virtual Open House presentation

introduction, Gladys Cornell with AIM Consulting, facilitated participants introductions via a set of questions and live polling. See below for the results of the interactive poll.

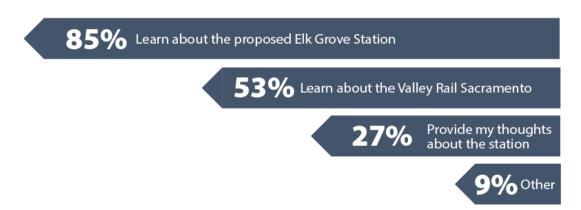
1. Which Neighborhood do you live in?



2. Have you traveled on any of the following: ACE, San Joaquins, or RT Blue Line?



3. What brought you to this meeting? (Pick all that apply)







After the participants' introductions, Dan Leavitt, the manager of Regional Initiatives with SJRRC, presented an overview, which included information about the rail service options, including the San Joaquins, Altamont Corridor Express (ACE), and the Valley Rail Sacramento Extension project. Then, Michel Costa, the Community Partnerships and Government Relations Manager with the City of Elk Grove, presented background information and findings from a previous study the City undertook to evaluate possible locations for a train station in Elk Grove. Following that presentation, the project objectives and an overview of the proposed Elk Grove Station were explained by the consultant's project manager, David Williams, with Mark Thomas Co. After a brief pause for Q&A discussion, Amanda Durgen an associate environmental planner with LSA and the environmental lead for this project, provided an overview of the environmental process and key project milestones.

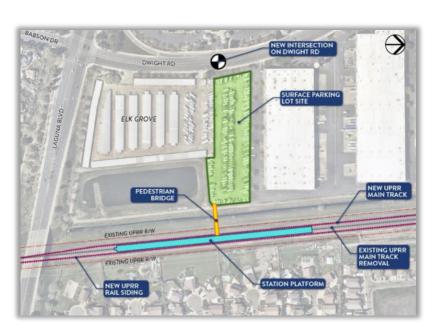
A full version of the meeting presentation is available in the document's appendix, and a recording of the presentation is available on the project website.

Discussion

Following the presentation, the project team facilitated another Q&A discussion by reading questions and comments submitted via the Zoom chat box. Below is a summary of the topics discussed during question-and-answer portion of the meeting.

Parking

Many participants were interested in the station parking lot and wanted to know how many spaces would be provided. The project team responded that approximately 175 – 225 parking spaces would be available depending on the need of Sac RT busses. Another participant wanted to know what would happen if the Elk Grove Station parking lot required future expansion. The project team stated that they are looking at a site off Dwight Road and other opportunities



Proposed station layout

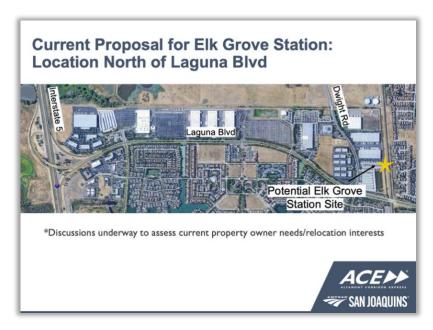


close to the station site. That question was followed with an inquiry about how bicyclists would be accommodated at the new station and the project team said that they will be evaluating the need for bike storage lockers on site and other necessary infrastructure to accommodate those who use alternative transportation to get around. Following that, someone asked if there would be a parking structure and how tall it is anticipated to be. The project team confirmed that at this time the project will be served by a surface parking lot only. Participants asked if the parking lot would be fenced and locked at night, and the project team responded that they are working with the City of Elk Grove and the Police Department to evaluate the security measures that will be needed at this site. Following that a community member inquired about the possibility of bus connections at the proposed station and if that could minimize the need for parking. The project team said that they are coordinating with Sacramento Regional Transit (Sac RT) to ensure that services will be available at the proposed station and that they will have sufficient parking available for busses.

Station Site

Participants asked if the station would be accessible for the disabled community. The project team confirmed that accessibility is a key requirement for all areas within the station. They stated that they would have ADA-compliant parking stalls, the pedestrian bridge will have an elevator in addition to the stairs, and the platform itself will have accommodations to help riders on and off the trains.

The project team clarified that



Elk Grove Station proposed site location

the only way to access the station platform from the parking lot is to cross the pedestrian bridge. Following, a community member asked if there will be pedestrian access to Laguna Boulevard on the east side of the track and the project team said that right now, the plan is to direct folks into the station area from Dwight Rd. We are concerned that having access on Laguna Boulevard would impact the residential area to the east. A participant asked if the station platform would have amenities that protect riders from the rain or sun. The project team responded that there would be areas on the platform that will be sheltered. The question was followed up with an



Virtual Community Open House Summary Thursday, August 26, 2021

inquiry about bathrooms at the station, in which the project team responded that they are not considering including a bathroom. One participant expressed concerns about the station being hidden behind the storage units, and the project team responded that they will be placing adequate signage to help people find the station. Then a participant asked why the station would not be located at the southwest corner of Elk Grove Boulevard and Franklin Boulevard. The project team explained that that location was considered, however, the site is part of the Stone Lakes National Wildlife Refuge, so they did not move forward with that site. Then a community member inquired about the construction timeline once the station is approved. The project team answered stating that they will need to remove and replace about 2,500 feet of track before the station platform can begin being built and said that in total, the station will take about 12 to 18 months to finish. To wrap up the station site discussion, a participant asked who would be responsible for future maintenance of the property. The project team replied stating that once the property is acquired it will be owned by the San Joaquin Regional Rail Commission and they will be responsible for all maintenance and ongoing costs associated with the station. The discussion was concluded with a question about whether or not electric charging stations will be available at the proposed station. The project team said that they weren't planning on putting in this type of facilities but, they are evaluating the infrastructure noting that the infrastructure would likely only be empty conduits under the paved areas in case the equipment would be added later. They added that the other stations planned along the rail corridor are not putting in electric vehicle charging stations.

Security

Community members were very interested in the security plans for the proposed Elk Grove Station. The project team stated that they are coordinating with the City of Elk Grove's Police Department to determine if private security will be necessary at the station. Following this, a participant asked who would cover the cost of private security at the station. The project team responded that the cost of security is included in the operating budget for ACE and the San Joaquins.

Environmental

A resident asked if an assessment of noise associated with the project has been conducted. The project team responded that they are working on an analysis for noise and vibrations and that their findings will be included in the Environmental Impact Report. A community member asked if the noise analysis will be made public and the project team responded that it will be included in the Environmental Impact Report. That question was followed up with an inquiry about the quiet zone and if that will be honored. The project team responded that they will make sure the existing quiet zone noted for Sacramento County on the Union Pacific line, will be required to



remain fully compliant with the rules that the Federal Railroad Administration has on quiet zones. A participant then asked if a sound wall would be constructed, to which the project team responded that they are not proposing one at this time and will make the final determination if one is needed after the technical study is complete. Another community member was interested in the air quality impacts and asked which mitigation measures are anticipated. The team stated that until the environmental impact study is complete, they will not know which mitigation measures will be required. They added that for air quality, some typical mitigation measures include the use of clean equipment, limiting the amount of equipment that is operated, and use of water trucks, to keep particle matter down.

Service

Participants were very interested in the service options that this station might provide. To kick off this discussion, a participant asked what time the passenger services run. The project team responded that they are working closely with freight operators to coordinate schedules and make improvements to the program and added that they are expecting the ACE trains would come through Elk Grove around 6:30 a.m. to 8:30 a.m. in the morning



ACE Train

and then in the afternoon the trains would come around 3p.m. to 7:30 p.m. However, this will be subject to change and will be updated through the draft document. Another participants wanted to know if they would be able to take the train to the Sacramento International Airport and the project team said that there will be a shuttle to take riders from the Natomas Station to the airport.

Funding

A community member asked if Elk Grove residents would be funding the proposed station and the project team stated that the funding to build the station would come from the State's Transit and Intercity Rail Capital Program. This question was followed with an inquiry about what would happen to the funding if the station was not built. The project team replied that the funds for this station are only a small portion of the funding they received for the Valley Rail Program and added that they are committed to bringing a station to Elk Grove even if it is not at the location they are considering now.



Open House Notification

The project team implemented a robust notification plan that included an email blast to a city-wide distribution list and the ACE rider's distribution list. The team also sent personal emails and made personal follow up calls to stakeholders, including transportation advocates, neighborhood associations within the City of Elk Grove, business advocates, active transportation advocates, and public health and safety organizations. The Sacramento Bee ran an article about the proposed Elk Grove Station and help spread awareness about the Virtual Community Open House.



Social media graphic used to increase awareness

Additionally, the team posted on social media to promote the open house. Below are the organizations that helped spread the word about the open house:

- Environmental Council of Sacramento (ECOS)
- Sac350
- California Department of Transportation, District 3
- Sacramento Area Council of Governments (SACOG)

Appendix

- A. Chat Box Comments from Open House
- B. Open House Presentation
- C. Awareness Materials
- D. Emailed Formal Scoping Comments Received by 6:00 p.m. on September 3, 2021



Virtual Community Open House Summary Thursday, August 26, 2021

Appendix A: Chat Box Comments from Open House

- Can you provide a point of contact to submit ideas?
- I have another Zoom call at 6:00pm. How can I see the recorded version after the fact?
- The preliminary report from the website did not show any type of cost-benefits analysis. What are the costs?
- Will you be answering questions that were submitted
- Agree on need to see recorded session...FYI it's back to school night in EG so not best evening.
- The FEIR of Valley Rail Ext identified a station that will serve Elk Grove, however, it was omitted. What is the rational in dropping the Consumnes Station and pursue the one on Dwight Rd?
- Will there be time for public comments?
- What volume of ridership is estimated? What is that basis for that estimate?
- How much are Elk Grove citizens paying for this? This will also add traffic in our neighborhood.
- Has anyone articulated the pros and cons of this project? What benefits will it give me, a taxpayer?
- Did the city discuss this location at a public meeting? Why weren't people who commented on the original locations invited to comment on that process?
- Elliott
- Madeira East
- Laguna Riviera
- I don't know what my area is called, I live near Marion Mix Elementary.
- I live in Fremont.
- Sterling Meadows
- What automobile traffic is expected once this is completed? What infrastructure will need to be altered to accommodate that traffic?
- Work in Stockton.
- Sacramento
- Old town
- Madeira East
- Monterey Village
- Camden Passage
- Roseville
- Silver Springs in Sacramento County.
- What about having the location be at the SW corner of Elk Grove Blvd/Franklin Blvd?



- Live in Nevada City but work throughout the region.
- Elk Grove
- Others in west Elk Grove near Franklin hs
- SacRT Senior Planner (learning more about the project)
- Lakeside
- Live in District 1
- East Elk Grove
- Franklin about 5 min from the proposed station.
- From Elk Grove been riding ace train to Fremont.
- What intensity of noise is expected, including traffic and operations?
- West Elk Grove
- What is the impact on the train traffic what would be the latest the opened station will be?
- You expect 1.1 million annual ridership. How much specifically for Elk Grove Station?
- Has a "go-no go" decision already been made on this project? If yes then what is the purpose of this meeting?
- What local road improvements into the Elk Grove site will be required?
- The site by Sheldon Rd seems more feasible.
- I am actually glad that the CR Blvd location was removed. It was not a very good location and would have served Elk Grove very poorly. There is tons of traffic on Franklin at the Franklin/CR Blvd intersection that would made non-car trips impossible and car trips not worth it. If I'm going to spend 20 mins in my car trying to get to the train station, then I might as well just keep driving by car and forget the train.
- Since light rail already extends to Consumes Blvd, why is it better to build this in Elk Grove. How will people transfer to other transportation options?
- Since Freight has the right of way, what times would the passenger run?
- Will there be service to Sac International Airport?
- Shame that W2 isn't possible. It's nearly perfect.
- If environmental concerns were the reason for elimination of all the other locations then what are those environmental concerns? Please be specific?
- Where would the people who use this storage unit do with their items stored there
- I love the proposed location. It is really close to where I live which means I can walk to the train station or ride a bike. Will there be pedestrian access to Laguna on the east side of the track?
- If the storage facility disappears to make a parking lot, where will citizens be able to store bulky materials?



- Is there an initial layout of parking spaces? How many parking spaces will there be?
- I love this location and this project. It's about time Elk Grove was linked to the bay and southern California by rail. Connection to the airport is icing on the cake.
- I'd like to know how many parking spaces will be provided.
- What crime-prevention measure are anticipated?
- Will the proposed parking lot be fenced and locked at night (ex. Modesto, Fresno Amtrak station)?
- How many parking spaces will there be? Have you considered a multi-level parking structure?
- Support project and the proposed station location. Will SacRT / e-Tran provide additional service to the station?
- Does will have accessible to the disability?
- You mention ridership of 1.1 million passengers per year, surely, you mean per week?
- How will this project be funded? Will Elk Grove Residents be responsible for the costs of site development?
- Are there any bike friendly infrastructure improvements in place or in planning to be built for the station?
- Which entity would ultimately be responsible for the parking area? This speaks to who would be responsible for expanding available parking in the near future.
- This would be great ... However, if built on Kammerer Road extension further south would make more sense with amount of traffic and usable area.
- If the state is paying, then can we assume all the infrastructure costs are covered by the state as well?
- Will the city of elk grove be responsible for future maintenance and security? Purchasing the property?
- What are plans for security in parking lot and surrounding areas?
- What will be the cost to riders?
- Will there be a sound wall along the length of the study at sufficient height? The noise is unbearable now.
- They would only have cameras at the station, we all know that cameras do not stop crimes.
- Will there be more increased train braking noise south of Elk rove blvd?
- What is the expected ridership between Sacramento and Stockton daily?
- I recommend that you consider putting in a roundabout rather than a signaled intersection. It would help with traffic flow considerably.



- The Initial Study for the proposed station stated that this will be an "Independent Utility". Can you expand in detail what this mean relating to who will own the station and who will be responsible in maintaining and policing the area.
- Could you please explain the funding sources of ACE?
- I love that it connects to the airport.
- Any new stations should link with other public transportation options such as light rail and bus systems. This proposed EG station is isolated from all public transportation options.
- Why not Dwight at Bighorn for the station?
- Will this funding be sustainable?
- What about a location at the future Kammerer extension?
- I think the train should just go all the way to the airport. Or, at a minimum, some kind of rail-based connection like a tram. The goal here should be to eliminate transit options that get stuck in the same traffic as cars. A shuttle will get stuck in traffic.
- Can you offer any assurances about the future cost of parking at the new station?
- Can you provide a timeframe schedule of dates/events?
- I am concerned that there will not be enough parking given the number of bay area commuters we have in the town.
- The Consumnes Station show 700 parking spaces, with future expansion. How will the Dwight Station handle future expansion?
- What safety precautions will be used to ensure that proposed users will be safe at all hours of the day?
- Elsewhere in the state, what types of crime as associated with these types of stations?
- So to say that there is no cost to the City of EG is not exactly true...there will be increased demand for police response and that will have associated costs.
- How long will it take to get from Elk Grove to Stockton (a 45 minute drive) and to San Jose?
- Increased police costs are only one type of infrastructure expense. What else will there be other pedestrian entry/exit access points?
- How will the quiet zone be honored with this expansion? Has the impact of noise and pollution been assessed?
- Are there plans for bus connections from other areas of EG to this station to minimize the need for as much parking?
- If homeless people and vagabonds start to hang out or encamp near the station, who will be responsible to manage that?



- The rail project is adjacent to several utilities that are close to and parallel the existing UPRR tracks. SMUD would like it to be noted on the record that we are requesting a change within the NOP, specifically within the Impact Analysis Section 3.19a, Utilities and Service Systems. We would like to change from "Less than Significant Impact" to reflect "Potential Significant Impact and include utilities in the EIR review.
- The City of Elk Grove expects a large apartment complex to be built only a few miles away that are designated specifically and only for homeless people. Has any analysis been undertaken to analyze any interaction between these two projects related to local crime?
- Will have to issue bonds to secure location?
- Is this meeting "chat" considered formal comments to NOP?
- Near corner of Harbor Point and EG Blvd. neat to Arco gas station.
- I am concerned about the isolation of this station behind the storage units. Where will signage to the station be located? Would you consider future purchase of the entire storage facility for future parking?
- SacRT would most likely have three bus routes serve the station, Routes 112, 113, and 114. These three routes already go by the proposed station area, on Laguna Blvd. SacRT would most likely detour these into the station, once the station is open, for a direct connection. Nothing official yet, but that is what has been discussed by SacRT staff, in discussions with ACE/San Joaquin.
- I don't like that the only pedestrian access is the pedestrian bridge. There MUST be pedestrian access on the east side. It is absolutely ridiculous that those of us who would like to walk or ride a bike to the train station will be forced over the nightmarish Laguna Blvd bridge.
- Is there a proposed Budget for the Elk Grove station which identifies funding sources and the anticipated contribution for each; and, the same for ongoing expenses related to the project? Also, what is the anticipated fare box recovery percentage related to ongoing operational expenses?
- Will the noise analysis be made public? I would like to get a copy.
- There are already homeless people that camp in the area, just an FYI...the station will be more likely to drive them out.
- Is there security patrol at site? Light rail has security at sites.
- Will there be any layover or hoteling of the trains at this location?
- Is there a conceptual schedule on when trains will stop at station?
- Once the Homeless-Only apartments are finished, the situation on encampments might change significantly.
- Enforcing the quite zone is very important.



- You said you have total ridership of only 1.1 mil annually. At this pace it will take decades to reach a breakeven for revenue versus expenses.
- How tall of a parking structure is anticipated?
- What happens to proposed funding if station not built?
- Will sound wall be constructed?
- Currently there are issues with tagging on the walls that run along the rail line in this location. Will the tracks be secured with a fence so tagging will not be an issue on the platform.
- Residents in Elk Grove use the storage site for trailers and RV access. since we have housing that are HOA.
- Who pays for private security?
- Would the platform have any shady areas to protect from the sun/rain?
- Should the project be approved, how long would construction take for the replacement of existing tracks? What about the noise/environmental impact of this?
- What will be the daily schedule and traffic at this rail?
- Will any of these trains have timed connections to Capital Corridor Trains? what about freight that has priority?
- If the project is wildly successful, and the need for supplemental parking cannot be ignored, will the City the use Eminent Domaine to secure the required additional space?
- What type of mitigation measures are anticipated for air quality impacts? Same question for noise suppression?
- The homeowners and residents who live along tracks will be significantly impacted by noise, pollution, # of trains that come through. Will there be any compensation/grants that allow homeowners to make improvements to their home (i.e. insulation, double pane windows etc)?
- I live in that area and I am ok with it.
- Your anticipated time schedule would force commuters to San Jose to stay overnight, as you said the round trip is 6 hours plus their work shift. This is not feasible.
- It may have been answered but I did not hear it, what about a location at the future Kammerer extension?
- I already have a six hour commute to San Fransisco via Capitol Corridor. This is no different. Many people do it.
- I will be strongly against this project if sound wall is not constructed. I live about 1/4 mile from the tracks and noise is already unbearable. With the additional service, it will get worse.
- Will the platform access include elevators? Is this a possible future improvement?



- Are there only two trains daily on your current service? This is what the plan is for this service.
- Can you answer the question regarding Kammerer?
- Capital Corridor has 5-6 southbound trains in the morning and 5-6 northbound trains in the evening. Capital Corridor also piggybacks on standard Amtrak trains which can be leveraged if necessary.
- Follow up from my last question can access be from west track only, eliminate crossing?
- Kammerer Rd. that location does not have shovel-ready capability yet. It is too greenfield today.
- So is the plan to still have two San Joaquin's directly serving the Sacramento valley station via the Fresno sub, and all additional passenger service to use the SAC sub?
- I am finding that many of my comments and questions have been directly to specific individuals instead of "Everyone". How can this be corrected? I've offer quite a few comments.
- Any plans for maintenance train maintenance facilities north of Stockton?
- What is the proposed timeline for operating Elk Grove station as well as the rest of the valley extension?
- What is likelihood of this project not happening?
- There is no assurance that even if a sound wall is built that it will do any good. Many times, sound walls only increase the problem.
- Do you plan add restroom?
- Who cleans it when the homeless arrive?
- Always concerned about the financial implications on the residents of this City; on this project or any other proposed project. My question is: Is there currently financial data or budgets available that can be seen or accessed now?
- Who are the final decision makers on whether to have this Elk Grove Station?
- It will be a shame is passenger trains pass through Elk Grove but do not stop. Strongly support project.
- Would there be electric charging station for Electric Vehicles?
- How certain is the Sacramento Expansion of the ACE Rail? Is it a done deal?
- With all these agencies and organizations being mentioned. can you be more specific on there individuals roles and responsibilities?
- If we must use gmail to submit comments then this has been useless.
- Thank you!
- Thank you everyone for attending and your input! Great info and thank you project team!



- Thank you. Great presentation.
- Thank you all!
- Thank you! Good luck on bringing this project.



Virtual Community Open House Summary Thursday, August 26, 2021

Appendix D: Emailed Formal Scoping Comments Received by 6:00 p.m. on September 3, 2021 In addition to receiving comments at the open house, other interest persons were asked to provide their comments about Notice of Preparation and Initial Study to be considered during the EIR review process. Below are comments received during the scoping period from August 3, 2021 to September 3, 2021.



State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
North Central Region
1701 Nimbus Road, Suite A
Rancho Cordova, CA 95670-4599
916-358-2900
www.wildlife.ca.gov

GAVIN NEWSOM, Governor CHARLTON H. BONHAM, Director



September 1, 2021

David Ripperda San Joaquin Regional Rail Commission 949 East Channel Street Stockton, CA 95202 davidr@acerail.com

Subject: ELK GROVE STATION PROJECT- NOTICE OF PREPARATION

SCH# 2021080045

Dear Mr. Ripperda:

The California Department of Fish and Wildlife (CDFW) received and reviewed the Notice of Preparation of an Environmental Impact Report (EIR) from the San Joaquin Regional Rail Commission (SJRRC) for the Elk Grove Station Project (Project) in Sacramento County pursuant the California Environmental Quality Act (CEQA) statute and guidelines.¹

Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish, wildlife, plants and their habitats. Likewise, we appreciate the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may need to exercise its own regulatory authority under the Fish and Game Code (Fish & G. Code).

CDFW ROLE

CDFW is California's Trustee Agency for fish and wildlife resources and holds those resources in trust by statute for all the people of the State (Fish & G. Code, §§ 711.7, subd. (a) & 1802; Pub. Resources Code, § 21070; CEQA Guidelines § 15386, subd. (a).). CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species (*Id.*, § 1802.). Similarly, for purposes of CEQA, CDFW provides, as available, biological expertise during public agency environmental review efforts, focusing specifically on projects and related activities that have the potential to adversely affect fish and wildlife resources.

CDFW may also act as a Responsible Agency under CEQA. (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381.) CDFW expects that it may need to exercise

¹ CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

Elk Grove Station Project September 1, 2021 Page **2** of **12**

regulatory authority as provided by the Fish and Game Code. As proposed, for example, the Project may be subject to CDFW's lake and streambed alteration regulatory authority. (Fish & G. Code, § 1600 et seq.) Likewise, to the extent implementation of the Project as proposed may result in "take" as defined by State law of any species protected under the California Endangered Species Act (CESA) (Fish & G. Code, § 2050 et seq.), the Project proponent may seek related take authorization as provided by the Fish and Game Code.

PROJECT DESCRIPTION SUMMARY

The San Joaquin Joint Powers Authority and the SJRRC, which manage the Amtrak San Joaquin and the Altamont Corridor Express, respectively, are jointly undertaking the planning, design, and environmental review of the Project. The proposed Project would construct a passenger rail station, supporting siding track, and parking lot in the City of Elk Grove.

In the EIR, the Project description should include the whole action as defined in the CEQA Guidelines § 15378 and should include appropriate detailed exhibits disclosing the Project area including temporary impacted areas such as equipment stage area, spoils areas, adjacent infrastructure development, staging areas and access and haul roads if applicable.

As required by § 15126.6 of the CEQA Guidelines, the EIR should include an appropriate range of reasonable and feasible alternatives that would attain most of the basic Project objectives and avoid or minimize significant impacts to resources under CDFW's jurisdiction.

COMMENTS AND RECOMMENDATIONS

CDFW offers the comments and recommendations presented below to assist the SJRRC in adequately identifying and/or mitigating the Project's significant, or potentially significant, impacts on biological resources. The comments and recommendations are also offered to enable CDFW to adequately review and comment on the proposed Project with respect to impacts on biological resources. CDFW recommends that the forthcoming EIR address the following:

Assessment of Biological Resources

Section 15125(c) of the CEQA Guidelines states that knowledge of the regional setting of a project is critical to the assessment of environmental impacts and that special emphasis should be placed on environmental resources that are rare or unique to the region. To enable CDFW staff to adequately review and comment on the Project, the EIR should include a complete assessment of the flora and fauna within and adjacent to the Project footprint, with emphasis on identifying rare, threatened, endangered, and other sensitive species and their associated habitats. CDFW recommends that the EIR specifically include:

Elk Grove Station Project September 1, 2021 Page **3** of **12**

- 1. An assessment of all habitat types located within the Project footprint, and a map that identifies the location of each habitat type. CDFW recommends that floristic, alliance- and/or association-based mapping and assessment be completed following *The Manual of California Vegetation*, second edition (Sawyer 2009). Adjoining habitat areas should also be included in this assessment where site activities could lead to direct or indirect impacts offsite. Habitat mapping at the alliance level will help establish baseline vegetation conditions.
- 2. A general biological inventory of the fish, amphibian, reptile, bird, and mammal species that are present or have the potential to be present within each habitat type onsite and within adjacent areas that could be affected by the Project. CDFW recommends that the California Natural Diversity Database (CNDDB), as well as previous studies performed in the area, be consulted to assess the potential presence of sensitive species and habitats. A nine United States Geologic Survey (USGS) 7.5-minute guadrangle search is recommended to determine what may occur in the region, larger if the Project area extends past one guad (see Data Use Guidelines on the Department webpage www.wildlife.ca.gov/Data/CNDDB/Maps-and-Data). Please review the webpage for information on how to access the database to obtain current information on any previously reported sensitive species and habitat, including Significant Natural Areas identified under Chapter 12 of the Fish and Game Code, in the vicinity of the Project. CDFW recommends that CNDDB Field Survey Forms be completed and submitted to CNDDB to document survey results. Online forms can be obtained and submitted at:

https://www.wildlife.ca.gov/Data/CNDDB/Submitting-Data.

Please note that CDFW's CNDDB is not exhaustive in terms of the data it houses, nor is it an absence database. CDFW recommends that it be used as a starting point in gathering information about the *potential presence* of species within the general area of the Project site. Other sources for identification of species and habitats near or adjacent to the Project area should include, but may not be limited to, State and federal resource agency lists, California Wildlife Habitat Relationship System, California Native Plant Society Inventory, agency contacts, environmental documents for other projects in the vicinity, academics, and professional or scientific organizations.

3. A complete and recent inventory of rare, threatened, endangered, and other sensitive species located within the Project footprint and within offsite areas with the potential to be affected, including California Species of Special Concern and California Fully Protected Species (Fish & G. Code § 3511). Species to be addressed should include all those which meet the CEQA definition (CEQA Guidelines § 15380). The inventory should address seasonal variations in use of the Project area and should not be limited to resident species. The EIR should include the results of focused species-specific surveys, completed by a qualified biologist and conducted at the appropriate time of year and time of day when the sensitive species are active or otherwise identifiable. Species-specific surveys

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should be conducted in order to ascertain the presence of species with the potential to be directly, indirectly, on or within a reasonable distance of the Project activities. CDFW recommends the lead agency rely on survey and monitoring protocols and guidelines available at:

www.wildlife.ca.gov/Conservation/Survey-Protocols. Alternative survey protocols may be warranted; justification should be provided to substantiate why an alternative protocol is necessary. Acceptable species-specific survey procedures should be developed in consultation with CDFW and the U.S. Fish and Wildlife Service, where necessary. Some aspects of the Project may warrant periodic updated surveys for certain sensitive taxa, particularly if the Project is proposed to occur over a protracted time frame, or in phases, or if surveys are completed during periods of drought or deluge.

- 4. A thorough, recent (within the last two years), floristic-based assessment of special-status plants and natural communities, following CDFW's *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (see www.wildlife.ca.gov/Conservation/Plants).
- 5. Information on the regional setting that is critical to an assessment of environmental impacts, with special emphasis on resources that are rare or unique to the region (CEQA Guidelines § 15125[c]).

Analysis of Direct, Indirect, and Cumulative Impacts to Biological Resources

The EIR should provide a thorough discussion of the Project's potential direct, indirect, and cumulative impacts on biological resources. To ensure that Project impacts on biological resources are fully analyzed, the following information should be included in the EIR:

- 1. The EIR should define the threshold of significance for each impact and describe the criteria used to determine whether the impacts are significant (CEQA Guidelines, § 15064, subd. (f)). The EIR must demonstrate that the significant environmental impacts of the Project were adequately investigated and discussed and it must permit the significant effects of the Project to be considered in the full environmental context.
- 2. A discussion of potential impacts from lighting, noise, human activity, and wildlife-human interactions created by Project activities especially those adjacent to natural areas, exotic and/or invasive species occurrences, and drainages. The EIR should address Project-related changes to drainage patterns and water quality within, upstream, and downstream of the Project site, including: volume, velocity, and frequency of existing and post-Project surface flows; polluted runoff; soil erosion and/or sedimentation in streams and water bodies; and post-Project fate of runoff from the Project site.

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- 3. A discussion of potential indirect Project impacts on biological resources, including resources in areas adjacent to the Project footprint, such as nearby public lands (e.g. National Forests, State Parks, etc.), open space, adjacent natural habitats, riparian ecosystems, wildlife corridors, and any designated and/or proposed reserve or mitigation lands (e.g., preserved lands associated with a Conservation or Recovery Plan, or other conserved lands).
- 4. A cumulative effects analysis developed as described under CEQA Guidelines section 15130. The EIR should discuss the Project's cumulative impacts to natural resources and determine if that contribution would result in a significant impact. The EIR should include a list of present, past, and probable future projects producing related impacts to biological resources or shall include a summary of the projections contained in an adopted local, regional, or statewide plan, that consider conditions contributing to a cumulative effect. The cumulative analysis shall include impact analysis of vegetation and habitat reductions within the area and their potential cumulative effects. Please include all potential direct and indirect Project-related impacts to riparian areas, wetlands, wildlife corridors or wildlife movement areas, aquatic habitats, sensitive species and/or special-status species, open space, and adjacent natural habitats in the cumulative effects analysis.

Habitat Conservation Plans

The Project is within the boundaries of the South Sacramento Habitat Conservation Plan Conservation Plan (SSHCP). CEQA Guidelines section 15125(d) states that EIRs must discuss any inconsistencies between projects and applicable plans (including habitat conservation plans/natural community conservation plans). Because the SSCHP is currently being implemented, CDFW recommends that the EIR include a discussion of each Project alternative's consistency with the SSHCP and how the SJRRC will ensure that implementation of the Project alternatives do not impede either plan's ability to meet its biological goals and objectives. Particular focus in the EIR's analysis should be directed to:

- Analysis of all SSHCP Covered Species
- Assessment of habitat types identified in the SSHCP
- Identification of applicable SSHCP avoidance, minimization, or mitigation measures
- Analysis of any impacts to land commitments of the SSHCP

Mitigation Measures for Project Impacts to Biological Resources

The EIR should include appropriate and adequate avoidance, minimization, and/or mitigation measures for all direct, indirect, and cumulative impacts that are expected to occur as a result of the construction and long-term operation and maintenance of the Project. CDFW also recommends that the environmental documentation provide scientifically supported discussion regarding adequate avoidance, minimization, and/or

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mitigation measures to address the Project's significant impacts upon fish and wildlife and their habitat. For individual projects, mitigation must be roughly proportional to the level of impacts, including cumulative impacts, in accordance with the provisions of CEQA (Guidelines § § 15126.4(a)(4)(B), 15064, 15065, and 16355). In order for mitigation measures to be effective, they must be specific, enforceable, and feasible actions that will improve environmental conditions. When proposing measures to avoid, minimize, or mitigate impacts, CDFW recommends consideration of the following:

- 1. Fully Protected Species: Several Fully Protected Species (Fish & G. Code § 3511) have the potential to occur within or adjacent to the Project area, including, but not limited to: white-tailed kite (Elanus leucurus) and greater sandhill crane (Antigone canadensis). Fully protected species may not be taken or possessed at any time. Project activities described in the EIR should be designed to completely avoid any fully protected species that have the potential to be present within or adjacent to the Project area. CDFW also recommends that the EIR fully analyze potential adverse impacts to fully protected species due to habitat modification, loss of foraging habitat, and/or interruption of migratory and breeding behaviors. CDFW recommends that the Lead Agency include in the analysis how appropriate avoidance, minimization and mitigation measures will reduce indirect impacts to fully protected species.
- 2. Sensitive Plant Communities: CDFW considers sensitive plant communities to be imperiled habitats having both local and regional significance. Plant communities, alliances, and associations with a statewide ranking of S-1, S-2, S-3, and S-4 should be considered sensitive and declining at the local and regional level. These ranks can be obtained by querying the CNDDB and are included in *The Manual of California Vegetation* (Sawyer 2009). The EIR should include measures to fully avoid and otherwise protect sensitive plant communities from Project-related direct and indirect impacts.
- 3. Mitigation: CDFW considers adverse Project-related impacts to sensitive species and habitats to be significant to both local and regional ecosystems, and the EIR should include mitigation measures for adverse Project-related impacts to these resources. Mitigation measures should emphasize avoidance and reduction of Project impacts. For unavoidable impacts, onsite habitat restoration, enhancement, or permanent protection should be evaluated and discussed in detail. If onsite mitigation is not feasible or would not be biologically viable and therefore not adequately mitigate the loss of biological functions and values, offsite mitigation through habitat creation and/or acquisition and preservation in perpetuity should be addressed.

The EIR should include measures to perpetually protect the targeted habitat values within mitigation areas from direct and indirect adverse impacts in order to meet mitigation objectives to offset Project-induced qualitative and quantitative losses of biological values. Specific issues that should be addressed include restrictions on access, proposed land dedications, long-term monitoring and

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management programs, control of illegal dumping, water pollution, increased human intrusion, etc.

4. Habitat Revegetation/Restoration Plans: Plans for restoration and revegetation should be prepared by persons with expertise in the regional ecosystems and native plant restoration techniques. Plans should identify the assumptions used to develop the proposed restoration strategy. Each plan should include, at a minimum: (a) the location of restoration sites and assessment of appropriate reference sites; (b) the plant species to be used, sources of local propagules, container sizes, and seeding rates; (c) a schematic depicting the mitigation area; (d) a local seed and cuttings and planting schedule; (e) a description of the irrigation methodology; (f) measures to control exotic vegetation on site; (g) specific success criteria; (h) a detailed monitoring program; (i) contingency measures should the success criteria not be met; and (j) identification of the party responsible for meeting the success criteria and providing for conservation of the mitigation site in perpetuity. Monitoring of restoration areas should extend across a sufficient time frame to ensure that the new habitat is established, self-sustaining, and capable of surviving drought.

CDFW recommends that local onsite propagules from the Project area and nearby vicinity be collected and used for restoration purposes. Onsite seed collection should be appropriately timed to ensure the viability of the seeds when planted. Onsite vegetation mapping at the alliance and/or association level should be used to develop appropriate restoration goals and local plant palettes. Reference areas should be identified to help guide restoration efforts. Specific restoration plans should be developed for various Project components as appropriate. Restoration objectives should include protecting special habitat elements or re-creating them in areas affected by the Project. Examples may include retention of woody material, logs, snags, rocks, and brush piles. Fish and Game Code sections 1002, 1002.5 and 1003 authorize CDFW to issue permits for the take or possession of plants and wildlife for scientific, educational, and propagation purposes. Please see our website for more information on Scientific Collecting Permits at www.wildlife.ca.gov/Licensing/Scientific-Collecting#53949678-regulations-.

5. Nesting Birds: Please note that it is the Project proponent's responsibility to comply with all applicable laws related to nesting birds and birds of prey. Migratory non-game native bird species are protected by international treaty under the federal Migratory Bird Treaty Act (MBTA) of 1918, as amended (16 U.S.C. 703 et seq.). CDFW implemented the MBTA by adopting the Fish and Game Code section 3513. Fish and Game Code sections 3503, 3503.5 and 3800 provide additional protection to nongame birds, birds of prey, their nests and eggs. Sections 3503, 3503.5, and 3513 of the Fish and Game Code afford protective measures as follows: section 3503 states that it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by the Fish and Game Code or any regulation made pursuant thereto:

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section 3503.5 states that is it unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds-of-prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by the Fish and Game Code or any regulation adopted pursuant thereto; and section 3513 states that it is unlawful to take or possess any migratory nongame bird as designated in the MBTA or any part of such migratory nongame bird except as provided by rules and regulations adopted by the Secretary of the Interior under provisions of the MBTA.

Potential habitat for nesting birds and birds of prey is present within the Project area. The Project should disclose all potential activities that may incur a direct or indirect take to nongame nesting birds within the Project footprint and its vicinity. Appropriate avoidance, minimization, and/or mitigation measures to avoid take must be included in the EIR.

CDFW recommends that the EIR include specific avoidance and minimization measures to ensure that impacts to nesting birds or their nests do not occur. Project-specific avoidance and minimization measures may include, but not be limited to: Project phasing and timing, monitoring of Project-related noise (where applicable), sound walls, and buffers, where appropriate. The EIR should also include specific avoidance and minimization measures that will be implemented should a nest be located within the Project site. In addition to larger, protocol level survey efforts (e.g. Swainson's hawk surveys) and scientific assessments, CDFW recommends a final preconstruction survey be required no more than three (3) days prior to vegetation clearing or ground disturbance activities, as instances of nesting could be missed if surveys are conducted earlier.

- 6. Moving out of Harm's Way: The Project is anticipated to result in the clearing of natural habitats that support native species. To avoid direct mortality, the lead agency should state in the EIR a requirement for a qualified biologist with the proper handling permits, will be retained to be onsite prior to and during all ground- and habitat-disturbing activities. Furthermore, the EIR should describe that the qualified biologist with the proper permits may move out of harm's way special-status species or other wildlife of low or limited mobility that would otherwise be injured or killed from Project-related activities, as needed. The EIR should also describe qualified biologist qualifications and authorities to stop work to prevent direct mortality of special-status species. CDFW recommends fish and wildlife species be allowed to move out of harm's way on their own volition, if possible, and to assist their relocation as a last resort. It should be noted that the temporary relocation of onsite wildlife does not constitute effective mitigation for habitat loss.
- 7. *Translocation of Species*: CDFW generally does not support the use of relocation, salvage, and/or transplantation as the sole mitigation for impacts to rare, threatened, or endangered species as they are generally experimental in nature and largely unsuccessful. Therefore, the EIR should describe additional

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mitigation measures utilizing habitat restoration, conservation, and/or preservation, in addition to avoidance and minimization measures, if it is determined that there may be impacts to rare, threatened, or endangered species.

The EIR should incorporate mitigation performance standards that would ensure that impacts are reduced to a less-than-significant level. Mitigation measures proposed in the EIR should be made a condition of approval of the Project. Please note that obtaining a permit from CDFW by itself with no other mitigation proposal may constitute mitigation deferral. CEQA Guidelines section 15126.4, subdivision (a)(1)(B) states that formulation of mitigation measures should not be deferred until some future time. To avoid deferring mitigation in this way, the EIR should describe avoidance, minimization and mitigation measures that would be implemented should the impact occur.

California Endangered Species Act

CDFW is responsible for ensuring appropriate conservation of fish and wildlife resources including threatened, endangered, and/or candidate plant and animal species, pursuant to the CESA. CDFW recommends that a CESA Incidental Take Permit (ITP) be obtained if the Project has the potential to result in "take" (Fish & G. Code § 86 defines "take" as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill") of State-listed CESA species, either through construction or over the life of the Project.

CESA-listed species with the potential to occur in the area include but are not limited to: Swainson's hawk (*Buteo swainsoni*), giant garter snake (*Thamnophis gigas*), and rare plants species.

The EIR should disclose the potential of the Project to take CESA-listed species and how the impacts will be avoided, minimized, and mitigated. Please note that mitigation measures that are adequate to reduce impacts to a less-than significant level to meet CEQA requirements may not be enough for the issuance of an ITP. To issue an ITP, CDFW must demonstrate that the impacts of the authorized take will be minimized and fully mitigated (Fish & G. Code §2081 (b)). To facilitate the issuance of an ITP, if applicable, CDFW recommends the EIR include measures to minimize and fully mitigate the impacts to any State-listed species the Project has potential to take. CDFW encourages early consultation with staff to determine appropriate measures to facilitate future permitting processes and to engage with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service to coordinate specific measures if both state and federally listed species may be present within the Project vicinity.

Native Plant Protection Act

The Native Plant Protection Act (Fish & G. Code §1900 *et seq.*) prohibits the take or possession of State-listed rare and endangered plants, including any part or product thereof, unless authorized by CDFW or in certain limited circumstances. Take of State-

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listed rare and/or endangered plants due to project activities may only be permitted through an ITP or other authorization issued by CDFW pursuant to California Code of Regulations, Title 14, section 786.9 subdivision (b).

Lake and Streambed Alteration Program

Section 1602 of the Fish and Game Code requires an entity to notify CDFW prior to commencing any activity that may do one or more of the following: substantially divert or obstruct the natural flow of any river, stream or lake; substantially change or use any material from the bed, channel or bank of any river, stream, or lake; or deposit debris, waste or other materials where it may pass into any river, stream or lake. Please note that "any river, stream or lake" includes those that are episodic (i.e., those that are dry for periods of time) as well as those that are perennial (i.e., those that flow year-round). This includes ephemeral streams and watercourses with a subsurface flow.

If CDFW determines that the Project activities may substantially adversely affect an existing fish or wildlife resource, a Lake and Streambed Alteration (LSA) Agreement will be issued which will include reasonable measures necessary to protect the resource. Early consultation with CDFW is recommended, since modification of the Project may avoid or reduce impacts to fish and wildlife resources.

Based on review of Project materials, a portion of a drainage (the Laguna West Channel) is present within the Project area. As such, grading/fill and other infrastructure improvements such as outfalls, outlets, or culverts may trigger notification. CDFW recommends avoiding alterations that would trigger notification or if needed, submitting a notification of Lake or Streambed Alteration prior to Project commencement. For more information on CDFW's LSA program including the online permitting portal, please visit https://wildlife.ca.gov/Conservation/Environmental-Review/LSA.

Landscaping

CDFW is supportive of public and private landowner efforts to enhance localized habitat value. Utilizing native plants onsite can lead to increased drought tolerance, decreased water use, and decreased maintenance/replacement costs while simultaneously increasing functionality for pollinators and wildlife, increasing the site's biodiversity and ecosystem health, and increasing carbon sequestration and climate change resilience.

CDFW recommends the SJRRC consider utilization of the Homegrown Habitat Plant List (Sacramento Valley Chapter, California Native Plant Society) (Attachment 1) when developing landscaping plans for the station. Inclusion of native plants in and around parking lots, around buildings, and in medians can result in positive difference in the environmental and promote sustainable development in California. Further resources, including interactive planting guidance can be found at https://calscape.org/.

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ENVIRONMENTAL DATA

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database, which may be used to make subsequent or supplemental environmental determinations (Pub. Resources Code, § 21003, subd. (e)). Accordingly, please report any special-status species and natural communities detected during Project surveys to the California Natural Diversity Database (CNDDB). The CNNDB field survey form can be found at the following link: https://www.wildlife.ca.gov/Data/CNDDB/Submitting-Data. The completed form can be submitted online or mailed electronically to CNDDB at the following email address: CNDDB@wildlife.ca.gov.

FILING FEES

The Project, as proposed, would have an effect on fish and wildlife, and assessment of filing fees is necessary. Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW. Payment of the fee is required in order for the underlying project approval to be operative, vested, and final. (Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code § 711.4; Pub. Resources Code, § 21089.)

CONCLUSION

Pursuant to Public Resources Code sections 21092 and 21092.2, CDFW requests written notification of proposed actions and pending decisions regarding the Project. Written notifications shall be directed to: California Department of Fish and Wildlife North Central Region, 1701 Nimbus Road, Rancho Cordova, CA 95670.

CDFW appreciates the opportunity to comment on the Notice of Preparation of the EIR for the EIk Grove Station Project and recommends that the SJRRC address CDFW's comments and concerns in the forthcoming EIR. CDFW personnel are available for consultation regarding biological resources and strategies to minimize impacts.

If you have any questions regarding the comments provided in this letter or wish to schedule a meeting and/or site visit, please contact Dylan Wood, Environmental Scientist, at (916) 358-2384 or dylan.a.wood@wildlife.ca.gov.

Sincerely,

DocuSigned by:
Kelley, Barker
778EDA8AE45F4C9...
Kelley Barker

Environmental Program Manager

ec's: page 12

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ec: Tanya Sheya, Senior Environmental Scientist (Supervisory)
Dylan Wood, Environmental Scientist
Department of Fish and Wildlife

Office of Planning and Research, State Clearinghouse, Sacramento

Literature Cited

Sawyer, J. O., T. Keeler-Wolf, and J. M. Evens. 2009. A Manual of California Vegetation, 2nd ed. California Native Plant Society Press, Sacramento, California. http://vegetation.cnps.org/

Subject: FW: Elk Grove station plan

Date: Tuesday, August 17, 2021 at 11:33:33 AM Pacific Daylight Time

From: David Ripperda

To: David Williams, amanda.durgen@lsa.net

CC: mcosta@elkgrovecity.org **Attachments:** image001.jpg, image002.png

FYI, not really a scoping comment but wanted you to be aware that ARB might attend the scoping meeting.

Thank you,

David Ripperda Manager of Capital Programs

Cell: (209) 361-9905 Direct: (209) 944-6275 Fax: (209) 944-6233

San Joaquin Regional Rail Commission (SJRRC)

949 East Channel St., Stockton, CA 95202

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From: Beutler, John@ARB < John.Beutler@arb.ca.gov>

Sent: Monday, August 16, 2021 5:42 PM **To:** David Ripperda <davidr@acerail.com>

Subject: RE: Elk Grove station plan

[The e-mail below is from an external source. Please do not open attachments or click links from an unknown or suspicious origin.]

Hi David,

Thanks for the information; I found the alternatives study. It appears the city was not at that time foreseeing much potential for transit-oriented development. I'll be interested to attend the workshop this month to hear about current plans.

Regards,

John

From: David Ripperda < davidr@acerail.com>
Sent: Monday, August 16, 2021 4:45 PM

To: Beutler, John@ARB < John.Beutler@arb.ca.gov>

Subject: RE: Elk Grove station plan

Good afternoon John,

Thank you for your interest in the Elk Grove station. We have been coordinating with the City and SacRT on the station site and design, which is one of the sites the City was looking at previously in a feasibility study that was done in 2018 but is not currently shown in their General Plan. Our Valley Rail Sacramento Extension is included SACOG's MTC/SCS, and we are continuing to coordinate with all the MPOs, jurisdictions, and transit operators throughout our Valley Rail Program to help strengthen first/last mile connections and encouraging supportive land uses around the station locations.

Thank you,

David Ripperda Manager of Capital Programs

Cell: (209) 361-9905 Direct: (209) 944-6275 Fax: (209) 944-6233

San Joaquin Regional Rail Commission (SJRRC)

949 East Channel St., Stockton, CA 95202

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From: Beutler, John@ARB < John.Beutler@arb.ca.gov >

Sent: Tuesday, August 10, 2021 4:00 PM **To:** David Ripperda < <u>davidr@acerail.com</u>>

Subject: Elk Grove station plan

Hello Mr. Ripperda,

I hope you're having a good week. I'm the regional liaison with the California Air Resources Board working with Sacramento and other regions on their Sustainable Communities Strategies to reduce greenhouse gas

emissions. A big part of those efforts is considering the coordination of transportation and land use.

I'm excited to see news about the expansion of ACE into the Sacramento area. This could be a great project linking multiple regions with sustainable transportation. I hope to attend the meeting about the Elk Grove station this month. In reference to that station, I was wondering if you will be working with the cities along the route to coordinate non-automotive transportation links and land use strategies. Will that be part of the planning process? I don't see any reference to the station in the Elk Grove general plan land use maps, though I would imagine they may pre-date the selection of the station location.

Regards,

John



John David Beutler AICP, Air Pollution Specialist

SUSTAINABLE TRANSPORTATION & COMMUNITIES DIVISION CALIFORNIA AIR RESOURCES BOARD 1001 "I" Street, Sacramento, CA 95814 (415) 637-1123 | john.beutler@arb.ca.gov

From: David Ripperda <davidr@acerail.com>
Sent on: Tuesday, August 10, 2021 11:19:59 PM

To: CC:

Subject: RE: Valley Rail Sacramento Extension Project Final EIR and Responses to Comments

We need to ensure they Regional Sans are included in the circulation lists going forward.

Thank you,

David Ripperda Manager of Capital Programs

San Joaquin Regional Rail Commission (SJRRC) 949 East Channel St., Stockton, CA 95202

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From: Young. Bryan

Sent: Tuesday, August 10, 2021 4:17 PM **To:** David Ripperda <davidr@acerail.com>

Cc:

Subject: RE: Valley Rail Sacramento Extension Project Final EIR and Responses to Comments

[The e-mail below is from an external source. Please do not open attachments or click links from an unknown or suspicious origin.]

Hello David,

A colleague of mine just forwarded the following link to me regarding an NOP/IS for the Valley Rail Elk Grove Station https://www.sjrrc.com/elk-grove-station/. Given the proximity of the proposed project area to the Sacramento Regional Wastewater Treatment Plant, the previous concerns expressed by Regional San to the Valley Rail EIR, and Regional San's request to be engaged in future project developments, I am surprised that Regional San was not directly notified about these next steps in the process. I will plan to attend the Community Open House on 8/26/2021 and will work with Robb Armstrong to facilitate a review of the NOP/IS by Regional San and SASD with the intent of commenting by 9/3/2021.

Bryan Young

Natural Resource Supervisor Bufferlands

Sacramento Regional County Sanitation District 8521 Laguna Station Road Elk Grove, CA 95758

www.regionalsan.com www.bufferlands.com



From: Young. Bryan

Sent: Monday, May 3, 2021 9:00 AM

To: 'David Williams'

Cc:

Subject: RE: Valley Rail Sacramento Extension Project Final EIR and Responses to Comments

Thanks David,

I appreciate the update. I know that Robb Armstrong has responded to the Utility "A" Letter and I will look forward to further updates as exploration of this project component continues.

Bryan Young

Natural Resource Supervisor Bufferlands

Sacramento Regional County Sanitation District 8521 Laguna Station Road Elk Grove, CA 95758

www.regionalsan.com www.bufferlands.com



From: David Williams

Sent: Friday, April 30, 2021 9:46 AM

To: Young. Bryan

Cc:

Subject: RE: Valley Rail Sacramento Extension Project Final EIR and Responses to Comments

EXTERNAL EMAIL: If unknown sender, do not click links/attachments.

Hi Bryan,

We wanted to follow up with you regarding the emails below. Mark Thomas is working for San Joaquin Regional Rail Commission (SJRRC) on the preliminary engineering and environmental clearance phase for an Elk Grove rail station at a new location just north of Laguna Boulevard. As part of this work effort, Mark Thomas reached out to the Sacramento Regional County Sanitation District on 4/13/2021 for any information on existing sanitary sewer record maps within our project study limits. The project involves a new rail siding (second track) and station platform within UPRR R/W and a new surface parking lot on an existing developed commercial property off Dwight Road just north of Laguna Boulevard. An elevated pedestrian overcrossing would connect from the station platform in UPRR R/W to the adjacent proposed surface parking lot. The limits of the rail siding within UPRR R/W is from Elk Grove Boulevard at the southern end to just south of Big Horn Boulevard at the northern end.

Our team is in the early stages of the environmental phase as we prepare a new environmental document in accordance with CEQA guidelines.

Let us know if you have any questions.

Thanks,

David Williams MARK THOMAS

From: Young. Bryan

Sent: Friday, April 23, 2021 1:48 PM

To: Kevin Sheridan **Cc:** Armstrong. Robert

Subject: RE: Valley Rail Sacramento Extension Project Final EIR and Responses to Comments

[The e-mail below is from an external source. Please do not open attachments or click links from an unknown or suspicious origin.]

Hi Kevin,

Can you give me a brief status update on the new proposed location for the North Elk Grove Station? Where is SJRRC in the planning process for this new site? Will it be conducting a new CEQA review? Would the siding improvements associated with the new platform footprint extend northward into the land adjacent to the Bufferlands? Would the siding improvements be contained with UPRR ROW? Please shoot me an email or give me a call when you get a chance. Thanks,

Bryan Young

Natural Resource Supervisor Bufferlands

Sacramento Regional County Sanitation District 8521 Laguna Station Road Elk Grove, CA 95758

www.regionalsan.com www.bufferlands.com



EXTERNAL EMAIL: If unknown sender, do not click links/attachments.

Bryan,

Now that the CEQA documentation is complete for the project, AECOM is no longer involved in the planning or design for the Sacramento Extension or revisions to the project. Kevin Sheridan from the San Joaquin Regional Rail Commission should be able to answer any questions about future CEQA documentation associated with changes to the Elk Grove Station. I've cc'd him in this reply.

Michael Kay

Senior Environmental Planner/Project Manager

AECOM

300 Lakeside Drive, Suite 400 Oakland, CA 94612

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From: Young. Bryan <

Sent: Wednesday, April 14, 2021 8:35 AM

To: Kay, Michae **Cc:** Armstrong. Robert

Subject: [EXTERNAL] RE: Valley Rail Sacramento Extension Project Final EIR and Responses to Comments

Hi Michael,

Robb Armstrong received a Utility "A" letter from Mark Thomas associated with their engineering efforts for a North Elk Grove Station south of the SRWTP with siding improvements extending north and south from this future platform. Where is SJRRC in the planning process for this new site? Will it be conducting a new CEQA review? I just want to make sure that we flesh out any issues early in the process so that the project is not faced with unanticipated challenges down the road. Thanks,

Bryan Young

Natural Resource Supervisor Bufferlands

Sacramento Regional County Sanitation District 8521 Laguna Station Road Elk Grove, CA 95758

www.regionalsan.com www.bufferlands.com



From: Young. Bryan

Sent: Thursday, October 8, 2020 1:34 PM

To: '

Subject: RE: Valley Rail Sacramento Extension Project Final EIR and Responses to Comments

Thanks, Michael.

Elimination of the North Elk Grove Station from further consideration certainly alleviates many serious project related concerns from Regional San. I was also encouraged to hear that the project is working towards a new station location that would better serve the community of Elk Grove.

Regional San and SASD still desire to remain engaged in the project design as there are multiple areas where this project will traverse existing and future alignments of Regional San and SASD infrastructure. Please pass along the contact information for Robb Armstrong to the project design team. He will be the best contact for such issues, though I am also happy to relay any further Regional San or SASD issues to the appropriate staff person. I copied Robb on this email and his contact information is as follows:

Robb Armstrong

Principal Engineering Technician
Regional San – Development Services & Plan Check
10060 Goethe Road
Sacramento, CA 95827

Thank you again,

Bryan Young

Natural Resource Supervisor Bufferlands

Sacramento Regional County Sanitation District 8521 Laguna Station Road

www.regionalsan.com www.bufferlands.com



From: Kay, Michael

Sent: Thursday, October 8, 2020 1:09 PM

To: Young. Bryan <

Cc: Subject: RE: Valley Rail Sacramento Extension Project Final EIR and Responses to

Comments

EXTERNAL EMAIL: If unknown sender, do not click links/attachments.

Bryan,

The FEIR was certified and the project was approved on the 2nd.

As described in the FEIR, the North Elk Grove Station is no longer under consideration and was not included in the approved project.

Michael Kay

Senior Environmental Planner/Project Manager

AECOM

300 Lakeside Drive, Suite 400 Oakland, CA 94612

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From: Young. Bryan

Sent: Thursday, October 08, 2020 12:18 PM

To: Kay, Michael

Subject: [EXTERNAL] RE: Valley Rail Sacramento Extension Project Final EIR and Responses to Comments

Hi Michael,

Can you advise as to whether the FEIR was certified by the SJRRC Board on 10/2/2020? I have not seen any updates posted to the website. Thanks you,

Bryan Young

Natural Resource Supervisor Bufferlands

Sacramento Regional County Sanitation District 8521 Laguna Station Road Elk Grove, CA 95758

www.regionalsan.com www.bufferlands.com



From: Kay, Michael

Sent: Tuesday, September 22, 2020 4:27 PM

Subject: Valley Rail Sacramento Extension Project Final EIR and Responses to Comments

EXTERNAL EMAIL: If unknown sender, do not click links/attachments.

On behave of the San Joaquin Regional Rail Authority, please find attached a letter regarding the availability of the Final Environmental Impact Report (EIR) and Responses to Comments on the Draft EIR for the Valley Rail Sacramento Extension Project. All documents related to the Final EIR can also be found at https://secure-

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Michael Kay Senior Environmental Planner/Project Manager

AECOM

300 Lakeside Drive, Suite 400

Oakland, CA 94612

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Subject: RE: Question for Aug 26 Elk Grove Rail Station Public Zoom Meeting

Date: Monday, August 9, 2021 at 7:26:50 AM Pacific Daylight Time

From: David Williams
To: Gladys Cornell

CC: Hannah Tschudin, David Williams

To date, no private property has been acquired for the Elk Grove Rail Station including the proposed station parking lot area.

Thanks,

David Williams

Senior Project Manager (916) 529-1951 mobile

MARK THOMAS

From: Gladys Cornell <gcornell@aimconsultingco.com>

Sent: Sunday, August 8, 2021 6:59 PM

To: David Williams <dwilliams@markthomas.com> **Cc:** Hannah Tschudin htschudin@aimconsultingco.com

Subject: Fwd: Question for Aug 26 Elk Grove Rail Station Public Zoom Meeting

Hi David Can you please provide the response? Thanks Gladys

Gladys Cornell 916-442-1168 gcornell@aimconsultingco.com Sent from my iPhone

Begin forwarded message:

From: Steve Vaczovsky <<u>vazovsky@cal.net</u>>
Date: August 8, 2021 at 6:19:43 PM PDT
Tagendary Maiorean and Maio

To: gcornell@aimconsultingco.com

Subject: Question for Aug 26 Elk Grove Rail Station Public Zoom Meeting

The message below was originally sent to Nicole Porter as the person listed in the registration confirmation email for an August 26, 5:30 PM Zoom based public meeting about the proposed Elk Grove Rail Station. Her automatic reply says she is no longer with AIM Consulting and says you are now the contact person to whom questions for the meeting should be directed. On that basis I am sending my question to you. If you are not the correct person, please forward this email to the appropriate person.

"The published documents regarding the the vehicle parking for the proposed Elk Grove Rail Station state the station will use the recreational vehicle storage area owned by Laguna Storage as parking.

Has that property been acquired, and if so, was it a negotiated purchase or was it done by eminent domain?"

Steve Vaczovsky (Va-sof-ski) Laguna West



Sent Via E-Mail and U.S. Mail

September 3,2021

San Joaquin Regional Rail Commission Attn: Elk Grove Station Project NOP 949 E. Channel Street Stockton, CA 95202 elkgrovestation@gmail.com

Subject: Comments of Sacramento Municipal Utility District

Notice of Preparation and Initial Study of the Environmental Impact Report for

Valley Rail Sacramento Extension - Elk Grove Station Project

(SCH 2021080045)

To Whom It May Concern:

The Sacramento Municipal Utility District (SMUD) appreciates the opportunity to provide comments in response to the Notice of Preparation and Initial Study (NOP/IS) for the Valley Rail Sacramento Extension - Elk Grove Station Project (State Clearing House project number 2021080045), the "Project." SMUD is the primary energy provider for Sacramento County and the proposed Project area. SMUD's vision is to be a trusted and powerful partner in achieving an inclusive, zero carbon economy. We work to accelerate innovation, ensure energy affordability and reliability, protect the environment, eliminate greenhouse gas emissions, catalyze economic and workforce development, promote environmental justice and enhance community vitality for all. SMUD is generally supportive of rail projects that may help reduce overall transportation emissions in the region.

As a Responsible Agency, SMUD aims to ensure that the proposed Project limits the potential for significant environmental effects on SMUD facilities, employees, and customers. The Project is part of an effort to extend passenger rail service in San Joaquin and Sacramento counties, and includes the construction of new rail track and a station platform as well as a surface parking lot and pedestrian overcrossing. SMUD previously submitted comments on the Draft Environmental Impact Report for the Valley Rail Sacramento Extension Project (SCH 2019090306) and thanks the SJRRC for responding to SMUD's concerns regarding the potential impacts to the environment connected to the previously proposed North Elk Grove Station. The Project as currently proposed also has the potential for significant effects which must all be evaluated in the Environmental Impact Report (EIR) for the Elk Grove Station Project. This letter identifies those potentially substantial adverse changes in the environment.

SMUD is a local publicly owned electric utility organized and existing under the laws of the State of California since 1923. Its purpose is to provide safe, reliable and affordable electricity, and lead the transition to a clean energy future. SMUD maintains facilities and rights of way necessary to generate, transmit and distribute electric power to over 640,000 customers in the Sacramento County area. These facilities include gas pipeline and electric transmission and distribution line facilities which are maintained in or near the Project boundary pursuant to recorded Grants of Easement and Right of Way.

SMUD staff is concerned with the overall cumulative effects of any proposal for a Project that would interfere with the safe and reliable operation of our pipeline and power line facilities or require the relocation of these facilities. In preparing the draft EIR, SMUD requests the SJRRC address the following issues:

- Overhead and underground electric transmission and distribution line easements and facilities. Please view the following links on smud.org for more information regarding transmission encroachment:
 - https://www.smud.org/en/Business-Solutions-and-Rebates/Design-and-Construction-Services
 - o https://www.smud.org/en/Corporate/Do-Business-with-SMUD/Land-Use/Transmission-Right-of-Way
- Gas pipeline easements and facilities.
- Communication system easements and facilities
- Electric and gas system safety and reliability
- Utility line routing
- Electrical load needs/requirements
- Regulatory requirements for utility line operation and maintenance
- Energy Efficiency
- Climate Change
- Cumulative impacts related to the need for increased electrical delivery to the new Project
- Cumulative impacts related to the relocation and/or removal of SMUD infrastructure that may be affected in or around the Project area

More specifically, SMUD would like to have the following details related to its infrastructure incorporated into the Project description and associated environmental impact analysis:

- SMUD owns and operates numerous 12kV, 69kV, and 230kV lines, both underground and above ground, within the Project boundary, directly adjacent to the Union Pacific Railroad Right-of-Way. It is unclear without further study if the proposed Project station and culvert extensions would require that these facilities need to be relocated to maintain compliance with federal, state and local regulatory and reliability requirements. The Project proponent will be responsible for maintaining all CalOSHA, State of California Public Utilities Commission General Order No. 95 and utility standard safety clearances during construction and upon Project completion. If the required clearances cannot be maintained, the Project proponent will be responsible for the cost of relocating the facilities, including providing new easements and rights of way. Relocation of the utility lines and related facilities would potentially cause significant impact to the environment and threaten to interrupt the reliable delivery of electricity for an extended period of time.
- Relocation of transmission line facilities could take up to 2 years to design and construct after the execution of a cost recovery agreement. Should facility relocation be needed its environmental impacts must be evaluated. To ensure the safety and reliability of the transmission system and power supply, construction within the SMUD transmission line easement requires SMUD technical review and consent. To obtain written consent, the Project will need to submit an application and plans to SMUD's Real Estate Services department to begin the consent process, see link provided above.

- SMUD owns and operates a high-pressure natural gas transmission pipeline within the Project boundary, directly adjacent to the Union Pacific Railroad Right-of-Way. It is unclear without further study if the proposed Project station and culvert extensions would require this pipeline to be relocated to maintain compliance with federal, state and local pipeline safety regulations. The Project proponent will be responsible for the cost of relocating the pipeline and related facilities, including providing new easements and rights of way. Relocation of this pipeline would cause potentially significant impacts to the environment and threaten to interrupt a reliable source of electricity that can power over 500,000 homes. In addition, relocation would be subject to authorization from the California Energy Commission to amend Docket No. 01-AFC-19 Cosumnes Power Plant and Gas Pipeline Project.
- Additionally, SMUD owns and operates telecommunication equipment within the Project boundary, directly adjacent to the Union Pacific Railroad Right-of-Way. It is unclear without further study if the proposed Project station and culvert extensions would require that this telecommunication equipment need to be relocated to maintain compliance with federal, state and local regulations. The Project proponent will be responsible for the cost of relocation.

Because of the significant costs and impact to the environment for relocating the electric and gas lines, and telecommunication equipment, including significant transportation disruption during construction and reduced reliability in electric service to the community, SMUD believes that the impact analysis in section 3.19a of the NOP/IS should be considered a Potentially Significant Impact, and be further studied in the Environmental Impact Report.

Thank you for your consideration of these comments. SMUD would like to work directly with the Valley Rail project team on design details to avoid Utility Infrastructure conflicts that may result in the project's lengthy delay due to possible relocation or remediation that may impact utility infrastructure and interrupt service to over 500,000 customers. We request that the information included in these comments be conveyed to the Project planners and the appropriate Project proponents. SMUD requests the opportunity to meet with you to discuss the above-described potential for significant effects on the environment from the proposed Project, and the identification of a feasible alternative. Our goal is to be partners in the efficient and sustainable delivery of the proposed Project.

Environmental leadership is a core value of SMUD, and we look forward to collaborating with you on this Project. Again, we appreciate the opportunity to provide input on this NOP. If you have any questions regarding this letter, please do not hesitate to contact me at 916.732.6676, or by email at rob.ferrera@smud.org.

Sincerely,

Rob Ferrera

Environmental Services Specialist Sacramento Municipal Utility District 6201 S Street, Sacramento, CA 95817

cc: Entitlements



9/3/2021

VIA EMAIL to elkgrovestation@gmail.com

San Joaquin Regional Rail Commission Attn: Elk Grove Station Project NOP 949 E. Channel Street Stockton, CA 95202

RE: Notice of Preparation for Elk Grove Station Project (SCH# 2021080045)

To whom it may concern:

Thank you for providing the opportunity for WALKSacramento to respond to the Notice of Preparation of an Environmental Impact Report for the Elk Grove Station Project. We support many of the project objectives, including expanded rail service and transit connections, improved regional air quality, and reduced greenhouse gas emissions. Station access using active transportation will be a critical component of the project's operation in order to achieve the project objectives. We offer the following comments on the scope of the environmental document.

The Elk Grove Station Project Initial Study Land Use and Planning impact analysis determined consistency with the Elk Grove General Plan policy MOB-3-8 because motorists will be directed to the station parking lot. The policy is intended to help users of all modes, though. We ask that wayfinding for walking and biking be included in the project's environmental analysis.

The project was also found to be consistent with Elk Grove General Plan policy MOB-3-12 because Dwight Road would include sidewalks and a signalized crosswalk at the parking lot access. The policy statement, though, concerns safe and convenient paths and crossings of major streets, taking into account the needs of the disabled, youth, and the elderly. We ask that pedestrian facilities and operations along and across Laguna Boulevard be included in the project's environmental analysis.

WALKSacramento is working to support increased physical activity such as walking and bicycling in local neighborhoods as well as helping to create community environments that support walking and bicycling. The benefits include improved public health and physical fitness, better air quality, a stronger sense of cohesion and safety in neighborhoods, and more sustainable communities and local economies.

Sincerely, Chris Holm Project Manager



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VICE CHAIRPERSON Reginald Pagaling Chumash

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COMMISSIONER [Vacant]

COMMISSIONER [Vacant]

EXECUTIVE SECRETARY
Christina Snider
Pomo

NAHC HEADQUARTERS 1550 Harbor Boulevard Suite 100 West Sacramento, California 95691 (916) 373-3710 nahc@nahc.ca.gov NAHC.ca.gov

NATIVE AMERICAN HERITAGE COMMISSION

August 4, 2021

David Ripperda San Joaquin Regional Rail Commission 949 E. Channel Street Stockton, CA 95202

Re: 2021080045, Elk Grove Station Project, Sacramento County

Dear Mr. Ripperda:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, §15064.5 (b) (CEQA Guidelines §15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines §15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015. If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). Both SB 18 and AB 52 have tribal consultation requirements. If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of <u>portions</u> of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

- 1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:
 - a. A brief description of the project.
 - **b.** The lead agency contact information.
 - **c.** Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
 - **d.** A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).
- 2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1 (b)).
 - **a.** For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).
- 3. <u>Mandatory Topics of Consultation If Requested by a Tribe:</u> The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:
 - a. Alternatives to the project.
 - b. Recommended mitigation measures.
 - c. Significant effects. (Pub. Resources Code §21080.3.2 (a)).
- 4. <u>Discretionary Topics of Consultation</u>: The following topics are discretionary topics of consultation:
 - a. Type of environmental review necessary.
 - **b.** . Significance of the tribal cultural resources.
 - **c.** Significance of the project's impacts on tribal cultural resources.
 - **d.** If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).
- **5.** Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).
- **6.** <u>Discussion of Impacts to Tribal Cultural Resources in the Environmental Document:</u> If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:
 - a. Whether the proposed project has a significant impact on an identified tribal cultural resource.
 - **b.** Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

- 7. <u>Conclusion of Consultation</u>: Consultation with a tribe shall be considered concluded when either of the following occurs:
 - **a.** The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
 - **b.** A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).
- 8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).
- 9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).
- **10.** Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:
 - a. Avoidance and preservation of the resources in place, including, but not limited to:
 - i. Planning and construction to avoid the resources and protect the cultural and natural context.
 - **ii.** Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
 - **b.** Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
 - i. Protecting the cultural character and integrity of the resource.
 - ii. Protecting the traditional use of the resource.
 - iii. Protecting the confidentiality of the resource.
 - **c.** Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
 - d. Protecting the resource. (Pub. Resource Code §21084.3 (b)).
 - **e.** Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).
 - **f.** Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).
- 11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:
 - **a.** The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.
 - **b.** The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.
 - **c.** The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09/14/05/Updated Guidelines/922.pdf.

Some of SB 18's provisions include:

- 1. <u>Tribal Consultation</u>: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe. (Gov. Code § 65352.3 (a)(2)).
- 2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.
- 3. <u>Confidentiality</u>: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).
- 4. Conclusion of SB 18 Tribal Consultation: Consultation should be concluded at the point in which:
 - **a.** The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
 - **b.** Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/.

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

- 1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (http://ohp.parks.ca.gov/?page_id=1068) for an archaeological records search. The records search will determine:
 - a. If part or all of the APE has been previously surveyed for cultural resources.
 - b. If any known cultural resources have already been recorded on or adjacent to the APE.
 - c. If the probability is low, moderate, or high that cultural resources are located in the APE.
 - **d.** If a survey is required to determine whether previously unrecorded cultural resources are present.
- 2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
 - **a.** The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
 - **b.** The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

- 3. Contact the NAHC for:
 - **a.** A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
 - **b.** A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.
- **4.** Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
 - **a.** Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, §15064.5(f) (CEQA Guidelines §15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
 - **b.** Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
 - **c.** Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address: Katy.Sanchez@nahc.ca.gov.

Sincerely,

Katy Sanchez

Associate Environmental Planner

cc: State Clearinghouse

Katy Sanchez

SACRAMENTO METROPOLITAN



September 3, 2021

San Joaquin Regional Rail Commission Attn: Elk Grove Station Project NOP 949 E. Channel Street Stockton, CA 95202

Subject: Elk Grove Station Notice of Preparation for an Environmental Impact Report State Clearinghouse # 2021080045

To Whom It May Concern:

Thank you for providing the Sacramento Metropolitan Air Quality Management District (Sac Metro Air District) with the opportunity to review the Notice of Preparation (NOP) for an Environmental Impact Report (EIR) under the California Environmental Quality Act (CEQA) for the Elk Grove Station Project. The project is a railway station to provide San Joaquin Regional Rail passenger rail service in the Elk Grove community, and is one of multiple stations provided to serve the overall Valley Rail Sacramento Extension (VRSE) project. The project includes construction of siding track to accommodate the Union Pacific Railroad (UPRR) operational needs to allow passenger service to run in the project area, starting just north of Big Horn Boulevard and extending just south of Elk Grove Boulevard. It also includes a station platform with passenger amenities such as shelters and bicycle parking, a surface parking lot, and a pedestrian access bridge.

We commend the VRSE project overall for its potential to support multi-modal travel choice and reduce dependence on automobiles and associated polluting emissions. Following are Sac Metro Air District project comments, and recommendations to utilize Sac Metro Air District's guidance on reviewing projects under CEQA, The Guide to Air Quality Assessment in Sacramento County (CEQA Guide), available on our website, in preparing the project EIR. We offer these comments and recommendations to help strengthen the environmental analysis and support the project's potential benefits to air quality.

Greenhouse Gases

Sac Metro Air District's <u>Greenhouse Gas Thresholds for Sacramento County</u> (Thresholds Document) provides information on complying with Sac Metro Air District thresholds of significance for greenhouse gas (GHG) emissions. To meet these thresholds, projects that are not consistent with a qualified Climate Action Plan must implement Best Management Practices (BMPs) as identified in the Thresholds Document.

The NOP indicates that the EIR would include analysis of project consistency with the City of Elk Grove Climate Action Plan (CAP). Sac Metro Air District also anticipates that the EIR will tier off appropriate GHG emissions analysis in the VRSE EIR.

If CEQA analysis demonstrates that project GHG emissions will exceed the applicable GHG thresholds, we recommend mitigating emission impacts using mitigation methods referenced in the CEQA Guide's chapter on GHG Emissions. Further, Sac Metro Air District recommends including all measures from its

<u>Construction GHG Emissions Reductions</u> guidance into mitigation measure GHG-1, referenced in the Project Initial Study attached to the NOP.

Construction

If CEQA analysis demonstrates that project construction emissions will exceed applicable <u>Sac Metro Air District thresholds of significance</u> for <u>pollutants regulated by the Clean Air Act</u> ("criteria pollutants"), Sac Metro Air District recommends mitigating associated impacts using mitigation methods referenced in the CEQA Guide's chapter on Construction-Generated Criteria Air Pollutant and Precursor Emissions.

Additionally, all projects are subject to Sac Metro Air District rules and regulations in effect at the time of construction. Please visit our website to <u>find a list of the most common rules that apply at the construction phase of projects</u>. All projects undergoing CEQA review must implement Sac Metro Air District <u>Basic Construction Emission Control Practices</u>, also available on our website, in order to use the non-zero particulate matter CEQA thresholds of significance.

Operations

If CEQA analysis demonstrates that project operational emissions will exceed applicable <u>Sac Metro Air District thresholds of significance</u> for operational criteria pollutants, Sac Metro Air District recommends mitigating emission impacts using applicable mitigation methods referenced in <u>the CEQA Guide's chapter on Operational Air Pollutant and Precursor Emissions</u>.

Health Impacts

The project is surrounded by residential uses, and may expose residents to toxic air contaminant (TAC) emissions from train traffic including idling locomotive engines. Sac Metro Air District recommends using the CEQA Guide's Chapter on Toxic Air Contaminants, and Sac Metro Air District's Mobile Sources Air Toxics Protocol, for EIR methods for TAC assessment and disclosure, and exposure reduction measures. Please also evaluate potential health impacts that may occur from any commuter busses serving the station. As stated in Sac Metro Air District's comment letter for the overall VRSE project's Draft EIR, we defer to local jurisdictions for each project component, to determine appropriate TAC risk levels for intervention. For the Elk Grove Station Project, we would defer to the City of Elk Grove.

Sac Metro Air District recommends that the EIR further include an analysis of health impacts that may result from project emissions, pursuant to the "Friant Ranch" decision. In December 2018 the California Supreme Court issued a decision in the Sierra Club v. County of Fresno case regarding the "Friant Ranch" project ((2018) 6 Cal. 5th 502). The Court determined that CEQA air quality analysis should include a reasonable effort to connect a project's air quality impacts to likely health consequences or explain in meaningful detail why it is not feasible to do so. To analyze health effects pursuant to the Friant Ranch decision, please consult Sac Metro Air District's <u>Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District</u>.

Electric Vehicle Spaces

Pursuant to Executive Orders B-16-12 and B-48-18, California has ambitious goals for clean air vehicles: 1.5 million zero-emission vehicles on its roads and highways by 2025, with millions more in the following years to ensure the State meets its air quality and climate goals. We offer the reminder that the 2019 California Green Building Standards Code (CalGreen) requires electric vehicle charging spaces for new construction, which facilitate future installation and use of electric vehicle charging stations. CalGreen Chapter 5, Nonresidential Mandatory Measures, Section 5.106.5.3, provides guidance on electric vehicle charging space quantity and other requirements for nonresidential uses.

 Consistent with State air quality and climate goals, we recommend that this project exceed minimum CalGreen requirements, by providing at least 20% electric vehicle ready spaces, in addition to electric vehicle charging stations, onsite.

Passenger rail offers a prime opportunity for commuters with electric vehicles to recharge them. Due to State policy and legislative direction, electric vehicle chargers could be a necessity for most people who access the station via automobile in the future, and electric vehicle chargers are most cost effective to install during project construction.

Multi-modal Station Access

The NOP indicates that Project improvements would "enhance bicycle and pedestrian safety and access and encourage activate transportation, through upgrades to existing bicycle/pedestrian facilities," and that "Proposed improvements would be designed to integrate with and enhance existing bicycle and pedestrian connections and would not negatively affect the safety or quality of these existing facilities." Sac Metro Air District commends this intent, and the bicycle parking/storage referenced in the NOP.

Sac Metro Air District recommends that these multi-modal improvements provide for direct bicycle and pedestrian access from all neighborhoods adjacent to the station area. To facilitate multi-modal access over the train tracks from the east, we recommend evaluating the potential for multi-modal improvements, including a pedestrian access bridge, along the general vicinity of the Laguna Boulevard right-of-way, including from Zehnder Park or behind the houses on Mykonos Way. This evaluation would include an evaluation of bicycle / pedestrian crossings of Laguna Boulevard within a half mile of the station.

Conclusion

Thank you for your attention to our comments. If you have questions about them, please contact me at mwright@airquality.org or (279) 207-1157.

Sincerely,

Molly Wright

Air Quality Planner / Analyst

Mollyharight

cc: Paul Philley, Program Supervisor



Sacramento Regional County Sanifation District September 2, 2021

Main Office

10060 Goethe Road Sacramento, CA 95827-3553 Tel: 916.876.6000 Fax: 916.876.6160

Treatment Plant

8521 Laguna Station Road Elk Grove, CA 95758-9550 Tel: 916.875.9000 Fax: 916.875.9068

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San Joaquin Regional Rail Commission Attn: Elk Grove Station Project NOP David Ripperda, Manager of Capitol Programs 949 East Channel Street Stockton, CA 95202

Subject: Notice of Preparation of an Environmental Impact Report

Valley Rail Sacramento Extension Project: Elk Grove

Station

Dear Mr. Ripperda,

Sacramento Regional County Sanitation District (Regional San) and the Sacramento Area Sewer District (SASD) have reviewed the Notice of Preparation (NOP) and Initial Study (IS) for the proposed Elk Grove Station associated with the San Joaquin Regional Rail Commission (SJRRC) Valley Rail Sacramento Extension Project (Project). Regional San is an adjacent land owner to the proposed Project area and both Regional San and SASD have existing and planned infrastructure in the vicinity of the proposed construction. Regional San and SASD expect the following issues and concerns to be further considered and addressed in the preparation of the Project Environmental Impact Report.

Project Description

Greater clarity of Project boundaries is needed. The northern and southern limits of siding track improvements are not clearly defined. We anticipate that further biological resource issues and Regional San infrastructure issues will be encountered dependent on the extent Project construction is necessary north of Big Horn Blvd and south of Elk Grove Blvd.

Vicinity maps in the NOP and IS label Big Horn Blvd. as Dwight Road (an outdated reference). The current Dwight Road is not labeled on the map but is referred to in the document.

The Project is denoted as occurring within the City of Elk Grove, but it should also be noted that some proposed improvements would occur within unincorporated Sacramento County.

The Project proposes construction on APN 119-0120-006. This Union Pacific Railroad (UPRR) owned property is adjacent to the Regional San Bufferlands surrounding the Sacramento Regional Wastewater Treatment (SRWTP). The SRWTP is a regional treatment facility that serves approximately 1.6 million people in the greater Sacramento area, treating approximately 136 million gallons of wastewater per day. The Bufferlands is managed with an emphasis on open space preservation and is recognized by the National Audubon Society as an Important Bird Area. These important regional features should be expressly noted within the description of the Surrounding Land Uses and Setting.

Mr. David Ripperda September 2, 2021 Page 2

The IS states that only lands north of Big Horn Blvd are within the South Sacramento Habitat Conservation Plan (SSHCP), however, portions of APN 119-0120-006 north and south of Big Horn Blvd. are within unincorporated Sacramento County and within SSHCP limits.

Biological Resources

Limited biological resource reconnaissance work is noted or referenced in the IS. A query of the California Natural Diversity Database (CNDDB) and other natural resource occurrence repositories would reveal special status plant and animal species with potential to occur within or nearby the Project area. Notably absent from consideration includes Giant Garter Snake, Western Pond Turtle, Loggerhead Shrike, Cooper's Hawk, White-tailed Kite, Northern Harrier, vernal pool crustaceans, and a number of listed plant species associated with mesic environments. Adverse effects on special status species should be considered as potentially significant and this issue should be further investigated within the EIR. Western Burrowing Owl and Vernal Pool Tadpole shrimp are known occurrences within the UPRR corridor in the Project vicinity. In light of ponding potential in the UPRR ROW and the presence of nesting substrate, the potential to impact federally protected wetlands and impede wildlife nursery sites should also be considered as potentially significant until further investigation in the EIR determines otherwise. The occurrence of this project outside of the limits of the City of Elk Grove requires compliance with the Sacramento County Tree Ordinance and that consistency with the SSHCP also be addressed.

Land Use and Planning

Section 3.11.1.b. discusses proposed Project consistency with the City of Elk Grove General Plan policies. The EIR should also elaborate on Project consistency with existing zoning at the proposed location.

Public Services

Trespass and illegal dumping are issues of growing concern for property owners in the Project vicinity. Design efforts and coordination with local law enforcement should be employed to ensure the Project does not exacerbate these issues.

Transportation

Dwight Road is currently utilized to facilitate Capital Improvement Project construction access to the SRWTP. It is expected the Project will coordinate construction activities with Regional San to minimize traffic burdens to the respective parties and the public.

Utilities and Service Systems

Potentially significant impacts to existing infrastructure should be further explored in the Project EIR. Potential construction impacts to Regional San and SASD facilities include areas where the proposed Project is constructed over or adjacent to existing pipelines and associated appurtenances. Construction loading evaluations will need to be performed to evaluate the project loading impacts on both Regional San and SASD pipelines where impacted. Regional San and SASD seek assurance from the project proponent that all necessary improvements required to protect and mitigate impacts to existing Regional San and SASD infrastructure will be at the sole expense of the Project proponent.

Mr. David Ripperda September 2, 2021 Page 3

In areas where the proposed Project footprint is constructed over or adjacent to existing Regional San or SASD infrastructure, an operating agreement may be required between the Project proponent and Regional San or SASD. This agreement will accommodate and account for future responsibilities associated with access, maintenance, repair, and replacement of Regional San and SASD infrastructure and property. The location of the proposed Elk Grove Station appears to be in conflict with the existing SASD Laguna Stonelake Sewer Force Main.

Regional San has future project alignments proposed to be located adjacent to and crossing under the existing UPRR ROW and the proposed Elk Grove Station siding improvements. The future projects consist of the recycled water pipelines for the South Sacramento County Agriculture & Habitat Lands Recycled Water Program (South County Ag Program, now known as Harvest Water) and the South Interceptor sanitary sewer pipelines. Regional San requests that alignments for these future facilities be reserved to accommodate their future construction and operation.

Regional San and SASD have staff available to meet with the Project proponents to discuss this matter in further detail. Please feel free to contact Bryan Young at (916) 875-9273 or by email: youngb@sacsewer.com.

Sincerely,

Bryan Young

Natural Resources Supervisor

Regional San

Sacramento Area Sewer District

BY (kv)

cc: Prabhakar Somavarapu, District Engineer, Regional San and SASD

Christoph Dobson, Director of Policy and Planning, Regional San

Glenn Bielefelt, Director of Operations, Regional San

My Huynh, Sr. Civil Engineer, SASD

Robb Armstrong, Principal Engineering Technician, Regional San



Elk Grove Station SJRRC <elkgrovestation@gmail.com>

Elk Grove Station EIR Comments

1 message

Paul Gumbinger <gumbingerp@gmail.com> To: elkgrovestation@gmail.com

Wed, Sep 1, 2021 at 3:59 PM

Cc: davidr@acerail.com

As a resident of Heritage Lakeside, I support the Valley Rail Sacramento Extension Project including the proposed Elk Grove Station location.

My EIR comments/questions are as follows:

- 1. **Funding**
- What are the funding sources for the project?
- 2. Elk Grove Station
- Will there be an e-tran bus connection?
- Will there be time limits and/or a fee for parking? There could be some who may want to park long term when traveling to the airport.
- Consider parking and platform illumination/nighttime glare protection for the residential area to the east.
- Will there be ticket dispensing machines located on the station platform?
- Will it be possible to purchase tickets online?
- What is the anticipated time for the completion and operation of the station?
- 3. Midtown Station
- Coordinate with Sacramento Regional Transit District to provide a safe connection to Light Rail to access downtown and the Sacramento Valley Station
- 4. **Natomas Station**
- Will the shuttle to the airport be part of the system?
- 5. Frequency of Service
- What is the anticipated timetable for the train departure and arrival times?
- 6. **Fares**
- What are the anticipated fares for the trains and airport shuttle?

Thank you, I look forward to your response.

Paul Gumbinger

9505 Emerald Cove Lane

Elk Grove, CA 95758

916-768-7138 (cell)

□ winmail.dat 7K

gumbingerp@gmail.com



complaint against Elk Grove Station

1 message

edmond kwan <edm_kwan@yahoo.com>

Fri, Aug 20, 2021 at 9:38 AM

To: "elkgrovestation@gmail.com" <elkgrovestation@gmail.com>

Greetings,

I am writing to protest the construction of the proposed Elk Grove ACE station. I believe it will be an extremely costly venture with little benefit to the community. The local culture does not use public transportation to travel to San Jose or Bakersfield. Most people prefer to drive. I am also concerned about the environmental impact of adding new tracks and the station. Additionally, I do not want the additional traffic hindrances the station would bring.

Please let me know if there is anything else I can do to voice my concerns.

Signed,

Edmond Kwan



Elk Grove Station Project

1 message

Sheilah Dupuy <rubywizard00@yahoo.com> To: elkgrovestation@gmail.com

Fri, Sep 3, 2021 at 4:49 PM

Comments/Considerations for Scope of Elk Grove Station Project

- 1) Please address noise levels that will result to local community surrounding proposed station, especially those associated with approaching and departing trains including track noises, horns, etc. Also address any ground vibration issues that may result in long term shifting or movement of ground and resultant damage to nearby homes.
- 2) Please address additional law enforcement needs that may result from unattended station including connected parking lots and overpasses. Who will pay for any such additional law enforcement demands? In addition what continuous monitoring of station will occur to ensure station does not become target of terrorist or other criminal activities to train tracks or equipment such as graffiti, physical altercations, robbery, pipe bombs, etc? What available crime data is there regarding similar stations elsewhere that can be reviewed by public to inform decision process on this station?
- 3) Please address contingency plans in the event of an accidental derailment near station and homes in area. Who will be available to provide emergency response to community. What mitigation measures are put in place to avoid any type of derailment.
- 4) Please address additional traffic impacts to Laguna Blvd. During morning and evening hours that street is already backed up. The emptying or filling of a train station parking lot onto Laguna Blvd during commute hours may create severe traffic issues that will need to be addressed.
- 5) Please address proposed stations impact on existing wildlife in the area including displacement that may occur.
- 6) Please address additional pollutants that may occur in area as a result of trains approaching and departing station as well as the additional vehicles in area that will be going to and from the station which could number in the 100s.
- 7) Will there be any annual compensation to the city of Elk Grove for allowing the creation of this station including any taxes imposed on train tickets?

Thank you for your consideration. Please keep me on any available mailing lists for this project. rubywizard00@yahoo.com

Sheilah Dupuy

Sent from Yahoo Mail for iPhone



SJRRC - Re: Proposed Elk Grove Station

1 message

Paul Doughty <ambientspirit@me.com>
To: elkgrovestation@gmail.com

Sat, Sep 4, 2021 at 6:10 PM

To whom it may concern,

It has been proposed that an SJRRC passenger train begin passing through west Elk Grove and stopping at a station that has been proposed along Dwight Rd. I am *very* strongly opposed to these proposals. As a resident living in the area, I would be directly impacted by this. When I purchased my home I understood there was a railroad track nearby, but I also spoke with residents of this area beforehand and understood it to be an infrequently used track, which turned out to be true. We sometimes go as much as a week without any rail traffic and sometimes only get one or two trains per day. That is tolerable. I do *not* want that railroad track to be used multiple times per day and I do *not* want trains routinely stopping near or behind my home. This area is *not* an industrial or business park and it is *not* urban - it is a residential area and I want it to stay that way.

I do *not* want the intersection at Laguna Blvd. and Dwight Rd. to become a commuter hub attracting vehicle, bicycle, and foot traffic. That intersection is *already* handling very heavy levels of traffic along Laguna Blvd. at times and Dwight Rd. was *not* designed to handle the levels of traffic it would attract. This would add to traffic safety concerns we already have at and near that intersection.

Although studies come to differing conclusions, I know from personal experience public transit stations attract criminal activity and we *already* have security concerns in this area. We already have had problems with attempted burglaries from people accessing our properties from the railroad track. Homeless people live along that railroad track and have trespassed on our properties from that area too. Just on the other side of Laguna Blvd. from the proposed train station site, Regional Sanitation *already* does not adequately secure or maintain their property. The city of Elk Grove *already* does not adequately secure Zehnder Park. People are able to easily access the railroad track from that park, which is another safety concern, especially for curious or adventurous kids. I *know*, because I see them walking along that track.

I saw that east Elk Grove was originally planned for the commuter train but the idea was scrapped. Why? Did they not want that nuisance either? I do not want additional noise, vibration, traffic, and crime in this area either.

Furthermore, I think SJRRC has done an inadequate job of informing the public about these proposals. The card that was mailed to residents could easily have been passed off as junk mail and thrown away by many households. A formal letter should have been mailed out.

From speaking with my neighbors, I know other residents in this area share my concerns.



Elk Grove Station Project NOP (SCH 2021080045)

1 message

Entitlements < Entitlements@smud.org> To: "elkgrovestation@gmail.com" <elkgrovestation@gmail.com> Cc: Rob Ferrera < Rob. Ferrera@smud.org>

Fri, Sep 3, 2021 at 6:09 PM

Good Afternoon,

Attached is SMUD's comment letter for the project listed above. Please confirm receipt of this email with the attachment.

Thank you in advance and have a wonderful weekend.

Sara Christian

Office Tech - Government Affairs

w.916-732-5380 | sara.christian@smud.org

SMUD | Powering forward. Together.

6201 S Street, Mail Stop B404, Sacramento, CA 95817

P.O. Box 15830, Sacramento, CA 95852-0830





Re: Elk Grove Train station

1 message

musubi sb <musubisb@gmail.com>
To: elkgrovestation@gmail.com

Sat, Sep 4, 2021 at 3:59 AM

> To whom it may concern,

>

- > I am a very concerned home owner who lives along side the train tracks. The noise and pollution is a big concern. The sound wall is currently so low and the freight train rumbles and shakes my whole house. With additional trains it will just make matters worse. The sound is unbearable at times and with trains traveling at faster speeds it will be louder. Will you compensate home owners to make improvements to their homes?
- > It would cost me a lot of money to sound proof my house our upgrade all the windows.

>

> With the new station there is a huge concern of neighborhood safety. Crime has risen and this will bring more opportunities for people to commit crimes. Bulgary, robbery, and assaults you name it. This will be a gateway to bring criminals into the city of Elk Grove and its neighbors.

>

> We don't need a station at this location. Please build it elsewhere. With hybrid and electric cars coming out in the mass this railway is not needed.

>

> Samual



Comments re NOP for Valley Rail Program - Elk Grove Station Project

1 message

Ross Chittenden <rchittenden@comcast.net>
To: "elkgrovestation@gmail.com" <elkgrovestation@gmail.com>

Fri, Aug 27, 2021 at 10:41 AM

I strongly support the proposed new Elk Grove Station location at Dwight Road near Laguna Boulevard. In general, I support the conceptual design discussed in the NOP and further clarifies at the August 26, 2021 virtual open house. I suggest the following considerations to improve access and accessibility:

- Reconsider locating the station platform to be located adjacent to the west track instead of between the two proposed tracks. This would eliminate the need for pedestrian crossing, elevator, etc. Viewing the site on Google Maps, this option would appear to require building a deck over the existing drainage canal to locate the platform, however, it would seem reasonable that:
 - a life-cycle cost analysis would result in lower costs to deck over the existing drainage canal for station platform in lieu of the construction and maintenance of the pedestrian crossing, installation and maintenance of elevator and additional costs to locate the platform between the two tracks
 - locating the platform west of the west track would eliminate potential visual impacts of the pedestrian crossing
 - o locating the platform west of the west track would also eliminate potential glare from lighting the pedestrian crossing at night.
- Coordinate SacRT / e-Tran bus schedules with Valley Rail train schedules. In response to a question at the Aug 26 virtual open house, a representative of SacRT stated the station would be served by existing lines which may or may not have similar schedules. Encouraging the use of bus transit would require coordinated schedule to minimize wait time at the station.
- To reduce demand for parking infrastructure, to minimize impacts of vehicle travel to the station, and to encourage maximum use of the new train service, consider partnering with Uber, Lyft, other TNC or SacRT / e-Tran to provide on-demand first mile / last mile service to and from residences and businesses. Many grants are available for this type of service.

Respectfully,

Ross Chittenden 3601 Lake Terrace Dr Elk Grove, CA 95758



Virtual community meeting

1 message

Alex Sanchez <alxsanchez.62@gmail.com>

Thu, Aug 26, 2021 at 5:53 PM

To: "elkgrovestation@gmail.com" <elkgrovestation@gmail.com>

Hi,

I spent 40 minutes trying to log into this zoom meeting and could not be logged in. Something dose not seem right and do not appreciate the info giving to be a part of this meeting. With that send this Acerail service has NO business in a residential setting. Why not place off Cosumnes Blvd. There's already light rail down the way and plenty of land available. But to place it in a residential area just does not make sense. Somebody needs to rethink this.

Alex



Elk Grove Train station

1 message

C Baraias <cbcc141@gmail.com> To: elkgrovestation@gmail.com

Thu. Aug 26, 2021 at 4:35 PM

I am opposed to the current proposal to locate a diesel powered train station in an Elk Gove's urban area.

Amtrak already has a route in Elk Grove.

Historically train stations are located in the outer boundaries of urban areas because of the danger of diesel particulate matter that lingers in our air for up to 2 weeks. The projected millions of trips are going to produce toxic air for all of Elk Grove. Air and cancerous toxins will travel through out our city and the children, the elderly and asthmatic will have shorter lifespans. The healthy will also be affected. Health expenses will increase.

Adding the proposed level of diesel particulate matter is contrary to all published reports on air quality in California see California Air Quality reports below

https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health

There are many law suits regarding exposure to diesel particulate matter. Many from residents living near train stations from employees working on railroad stations and on diesel trains. Due diligence will reveal the severe consequences of this proposed endeavor. Google railway law suits, https://doranandmurphy.com/? aclid=EAlalQobChMlw-72a-XP8alVPiCtBh09vAhPEAAYASAAEalS fD BwE

The world organization and many government agencies have identified the link between cancer and diesel particulate matter- exhaust

https://www.google.com/search?g=diesel+exhaust+dangers&client=safari&hl=en-us&ei=dB8oYf7uHLSv0PEPkfvJ0A4&og=diesel+exhaustlawsuit&gs_lcp= ChNtb2JpbGUtZ3dzLXdpei1zZXJwEAEYBTIGCAAQBxAeMqUIABCGAzIFCAAQhqMyBQqAEIYDMqUIABDNAjIFCAAQzQl6BAqAEEc6BAqAEA06CAqAEAqQBxAe OggIABANEAUQHIDYLFiidmC 5wFoAHABeACAAW-IAYaFkaEDNS4vmAEAoAEBvAEIwAEB&sclient=mobile-gws-wiz-serp

I strongly recommend that clean air alternatives be used for any trains proposed in Elk Grove.

https://www.osha.gov/sites/default/files/publications/OSHA-3590.pdf

The clean air act requires

The Act calls for states and EPA to solve multiple air pollution problems through programs based on the latest science and technology information.

https://www.epa.gov/clean-air-act-overview

Using 1900 technology is not what should be used.

Elk Grove must require newer technologies to move us forward. Require under ground electric for all train proposals. This proposed train is contrary to all clean air requirements.

Will you be the ones who make turn Elk Grove's air and sky to look like Los Angels when it is no necessary to use diesel fuel.

Sent from my iPhone

From: <u>David Ripperda</u>

To: Halloran, Mitch(consultant)@DWR
Cc: Amanda Durgen; David Williams
Subject: RE: SJRRC - Proposed Elk Grove Station
Date: Thursday, August 19, 2021 10:37:21 AM

Attachments: <u>image001.jpg</u>

Good morning,

Additional information on the Elk Grove Station including the Notice of Preparation (NOP) and Initial Study are available here:

https://acerail.com/elk-grove-station/

Written comments on the scope of the Elk Grove Station Project will be accepted until 6:00 PM on Friday, September 3, 2021. Comments may be sent via email to elkgrovestation@gmail.com. Please include "Elk Grove Station Project NOP" in the subject heading for emailed comments.

Thank you,

David Ripperda Manager of Capital Programs

Cell: (209) 361-9905 Direct: (209) 944-6275 Fax: (209) 944-6233

San Joaquin Regional Rail Commission (SJRRC)

949 East Channel St., Stockton, CA 95202

Altamont Corridor Express (ACE) • www.acerail.com San Joaquin Joint Powers Authority (SJJPA)



From: Halloran, Mitch(consultant)@DWR <Mitch.Halloran@water.ca.gov>

Sent: Thursday, August 19, 2021 10:32 AM **To:** David Ripperda <davidr@acerail.com> **Subject:** SJRRC - Proposed Elk Grove Station

[The e-mail below is from an external source. Please do not open attachments or click links from an unknown or suspicious origin.]

How can I submit comments in writing hopefully by email rather than attend a (virtual) meeting?

The comments are short and related to the proposed Elk Grove Station project.

Thanks,

Mitch Halloran

(916) 410-7133

smhbizness@gmail.com



Valley Rail Sacramento Extension Project -Elk Grove Station Project NOP"

1 message

Morlock, Nick < N1MW@pge.com>

Wed, Aug 25, 2021 at 10:37 AM

To: "elkgrovestation@gmail.com" <elkgrovestation@gmail.com>

Cc: "Jones, Stephen" <SMJG@pge.com>

Hello.

I was provided the attached Notice of Preparation for the Valley Rail Sacramento Extension Project. I was hoping to understand if there will be any PG&E facilities in conflict with the project and if so which ones? As you may or may not be aware PG&E has Gas Transmission Facilities in the area shown on the attached Map. I also wanted to understand what scheduling looks like, I understand the project is expected to take 14 months in total but I am not positive when that 14 months begins.

Thank You

Nicholas Morlock | Land Agent | Land Rights North

2730 Gateway Oaks Dr. Suite 220

Sacramento CA, 95833

Office: (916) 760-5737

Mobile: (916) 539-0252





2021080045_NOP Signed 073121.pdf



Caltrans Comment: Elk Grove Station Project (SCH # 2021080045)

1 message

Adams. Douglas@DOT <Douglas.Adams@dot.ca.gov>

Mon, Aug 23, 2021 at 9:13 AM

To: "elkgrovestation@gmail.com" <elkgrovestation@gmail.com>, "state.clearinghouse@opr.ca.gov" <state.clearinghouse@opr.ca.gov> Cc: "Padilla, Alex@DOT" <Alex.Padilla@dot.ca.gov>

Dear Mr. Riperda.

Caltrans would like to commend the San Joaquin Regional Rail Commission and San Joaquin Joint Powers Authority for their effort to bring regional passenger rail service to the Elk Grove community. The transportation mode shift enabled by this project will contribute to State of California goals of reducing vehicle miles travelled and greenhouse gas emissions. To fully optimize transit ridership and connect transit passengers to the Altamont Corridor Express train service, Caltrans recommends that local transit routes also be modified to include a stop at the proposed Elk Grove Station.

We would appreciate the opportunity to review and comment on any further actions related to this project.

Sincerely,

Doug Adams

Associate Transportation Planner

Planning, Local Assistance, and Sustainability

California Department of Transportation, District 3

703 B Street | Marysville CA 95901

Phone: (530) 565-3972

Email: douglas.adams@dot.ca.gov

www.dot.ca.gov/d3/

For real-time highway conditions: http://quickmap.dot.ca.gov/





Elk Grove Station Project NOP

1 message

Chris Holm cholm@walksacramento.org
To: "elkgrovestation@gmail.com" <elkgrovestation@gmail.com>

Fri, Sep 3, 2021 at 4:35 PM

A comment letter in response to the NOP is attached. Thanks.

Chris Holm, Project Manager

WALKSacramento

909 12th Street, Suite 203

Sacramento, CA 95814

We're working remotely, but you can leave voice messages at (916) 446-9255



8/16/2021 Gmail - location



Elk Grove Station SJRRC <elkgrovestation@gmail.com>

location

1 message

JOANNE TANSEY < joannemtansey@comcast.net>

Wed, Aug 11, 2021 at 12:41 PM

To: "elkgrovestation@gmail.com" <elkgrovestation@gmail.com>

Wondering where the station would possibly be located. What part of Laguna west or Elk Grove. Think it's a reasonable idea, but wonder what the number of passengers would be who want to go from stockton to elk grove.

Joanne Tansey



objection to proposed location of Elk Grove train station

1 message

Theresa G <tchessie@gmail.com> To: elkgrovestation@gmail.com

Thu, Aug 26, 2021 at 7:53 AM

To whom it may concern,

It is with significant frustration that I find myself having to speak up AGAIN about the same issue to the City of Elk Grove. Several years ago, the city proposed a transit station in the same location that they are now proposing an ACE train station. It is still a bad idea, and you should not make your citizens continuously take their time and energy to repeat themselves. I am also incredibly disappointed that no written notification of this plan was provided to those neighborhoods directly impacted by this proposal. Citizens should not have to hunt for this information and only learn about it by accident from an online post, or worse, find out about it after the fact.

The proposed station location, while in a tiny pocket of commercial property, is actually surrounded by quiet, safe, low density residential neighborhoods that have been here for an extensive period of time. In fact, the proposed station is directly across the tracks from some citizens' backyards. While improved passenger train service is a positive and important proposal, a more appropriate location for a station needs to be found.

An unattended station with a 100 car parking lot will bring even more traffic to overcrowded Laguna boulevard. While trains traveling by make some expected and manageable noise, a train station is an entirely different matter. Trains stopping and starting are extremely noisy, and add to that public address announcements and train horns. Unattended parking lots are areas that collect trash and are at higher probability for encampments for unhoused people. Questions about housing values for nearby suburban homes also are raised.

The reality is that if people wanted to live in an urban environment where these things were expected and already present, they would have moved to downtown Sacramento. Living in Elk Grove, which has a suburban lifestyle, was a purposeful decision to avoid living next door to aspects of urban living- including mass transit stations. I have been here since before the City was a "city", and do not want my neighborhood "urbanized". Find a location for the train station that is not in ANYONE's backyard.

Sincerely, Theresa Gannon



San Joaquin Regional Rail Commission Attn: Elk Grove Station Project NOP

1 message

larry lew < llew@hotmail.com>

Wed, Aug 11, 2021 at 4:20 PM

To: "elkgrovestation@gmail.com" <elkgrovestation@gmail.com>

Hi,

I am a very concerned home owner that lives right behind the UPRR. I am against this project and hope this does not progress. With the current freight trains and rumbling of my house I already get sleepless nights. The proximity of the current tracks are way too close to the homes. Passenger trains will just make matters worse with the frequency of trains. This expansion raises several concerns environmentally and the well-being of home owners and or tenants that live close by.

Concerns:

- -Shaking and rumbling of the ground
- -Noise level
- -Pollution
- -Safety
- -Foundation issues
- -Disturbance
- -Potential damage to homes

Regards, Larry



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APPENDIX C

AIR QUALITY/GREENHOUSE GAS EMISSIONS DATA/MODELING

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Elk Grove Station Project

Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	1.00	1000sqft	0.02	1,000.00	0
Other Asphalt Surfaces	33.45	Acre	33.45	1,457,082.00	0
Other Non-Asphalt Surfaces	69.50	1000sqft	1.60	69,500.00	0
Parking Lot	3.40	Acre	3.40	148,104.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2025

Utility Company Pacific Gas and Electric Company

 CO2 Intensity
 203.98
 CH4 Intensity
 0.033
 N20 Intensity
 0.004

 (lb/MWhr)
 (lb/MWhr)
 (lb/MWhr)
 (lb/MWhr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Vehicle Trips - Based on the SJRRC Elk Grove Station General Plan Consistency Evaluation Memorandum, the proposed project would generate 880 trips.

Land Use - This analysis includes the following assumptions based on the Project Description: 1,000 squre feet for passenger amenities associated with the station; the proposed surface parking lot would be constructed on a 3.4-acre site; 10,000-foot long siding track and 3,900-foot replaced UPRR mainline track; and a total 38.47-acre project site.

Construction Phase - Assuming construction would begin early Spring 2024, last 14 months, and end mid 2025.

Construction Off-road Equipment Mitigation - Assuming compliance with SMAQMD BMPs and use of Tier 2 construction equipment.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

Date: 11/22/2021 2:08 PM

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	55.00	45.00
tblConstructionPhase	NumDays	740.00	200.00
tblConstructionPhase	NumDays	75.00	30.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	55.00	45.00
tblGrading	AcresOfGrading	90.00	225.00
tblVehicleTrips	ST_TR	80.09	880.00
tblVehicleTrips	SU_TR	42.09	880.00
tblVehicleTrips	WD_TR	72.05	880.00

2.0 Emissions Summary

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Elk Grove Station Project - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					ton	s/yr							MT	/yr		
2024	0.3526	2.8605	3.2137	0.0102	0.9901	0.0889	1.0790	0.3459	0.0829	0.4287	0.0000	942.2485	942.2485	0.0988	0.0602	962.6462
2025	0.4197	0.9877	1.4317	4.2400e- 003	0.2224	0.0287	0.2511	0.0602	0.0269	0.0871	0.0000	394.3364	394.3364	0.0378	0.0245	402.5674
Maximum	0.4197	2.8605	3.2137	0.0102	0.9901	0.0889	1.0790	0.3459	0.0829	0.4287	0.0000	942.2485	942.2485	0.0988	0.0602	962.6462

Mitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					ton	s/yr							MT	/yr		
2024	0.2820	3.9595	3.5392	0.0102	0.7126	0.1052	0.8178	0.2281	0.1049	0.3330	0.0000	942.2481	942.2481	0.0988	0.0602	962.6459
2025	0.4105	1.5958	1.5452	4.2400e- 003	0.2224	0.0462	0.2686	0.0602	0.0461	0.1063	0.0000	394.3362	394.3362	0.0378	0.0245	402.5672
Maximum	0.4105	3.9595	3.5392	0.0102	0.7126	0.1052	0.8178	0.2281	0.1049	0.3330	0.0000	942.2481	942.2481	0.0988	0.0602	962.6459

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	10.34	-44.36	-9.45	0.00	22.88	-28.73	18.32	28.99	-37.47	14.85	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-25-2024	6-24-2024	1.0512	1.4136
2	6-25-2024	9-24-2024	1.0179	1.3373
3	9-25-2024	12-24-2024	1.0343	1.3502
4	12-25-2024	3-24-2025	0.9534	1.2908
5	3-25-2025	6-24-2025	0.5181	0.7902
		Highest	1.0512	1.4136

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Area	0.1360	1.0000e- 005	1.3700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6600e- 003	2.6600e- 003	1.0000e- 005	0.0000	2.8400e- 003
Energy	1.9000e- 004	1.7400e- 003	1.4600e- 003	1.0000e- 005		1.3000e- 004	1.3000e- 004		1.3000e- 004	1.3000e- 004	0.0000	8.0655	8.0655	1.0300e- 003	1.6000e- 004	8.1377
Mobile	0.3384	0.3615	2.6032	4.8100e- 003	0.5025	3.9800e- 003	0.5065	0.1343	3.7200e- 003	0.1381	0.0000	455.9289	455.9289	0.0373	0.0253	464.3920
Waste						0.0000	0.0000		0.0000	0.0000	0.1868	0.0000	0.1868	0.0110	0.0000	0.4627
Water						0.0000	0.0000		0.0000	0.0000	0.0111	0.0303	0.0413	4.0000e- 005	2.0000e- 005	0.0498
Total	0.4746	0.3633	2.6060	4.8200e- 003	0.5025	4.1100e- 003	0.5066	0.1343	3.8500e- 003	0.1382	0.1978	464.0273	464.2251	0.0494	0.0255	473.0450

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Elk Grove Station Project - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Area	0.1360	1.0000e- 005	1.3700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6600e- 003	2.6600e- 003	1.0000e- 005	0.0000	2.8400e- 003
Energy	1.9000e- 004	1.7400e- 003	1.4600e- 003	1.0000e- 005		1.3000e- 004	1.3000e- 004		1.3000e- 004	1.3000e- 004	0.0000	8.0655	8.0655	1.0300e- 003	1.6000e- 004	8.1377
Mobile	0.3384	0.3615	2.6032	4.8100e- 003	0.5025	3.9800e- 003	0.5065	0.1343	3.7200e- 003	0.1381	0.0000	455.9289	455.9289	0.0373	0.0253	464.3920
Waste		 				0.0000	0.0000		0.0000	0.0000	0.1868	0.0000	0.1868	0.0110	0.0000	0.4627
Water		 				0.0000	0.0000		0.0000	0.0000	0.0111	0.0303	0.0413	4.0000e- 005	2.0000e- 005	0.0498
Total	0.4746	0.3633	2.6060	4.8200e- 003	0.5025	4.1100e- 003	0.5066	0.1343	3.8500e- 003	0.1382	0.1978	464.0273	464.2251	0.0494	0.0255	473.0450

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/25/2024	5/3/2024	5	30	
2	Grading	Grading	5/4/2024	6/14/2024	5	30	
3	Building Construction	Building Construction	6/17/2024	3/21/2025	5	200	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4	Paving	Paving	3/24/2025	5/23/2025	5	45	
5	Architectural Coating	Architectural Coating	3/24/2025	5/23/2025	5	45	

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 225

Acres of Paving: 38.45

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,500; Non-Residential Outdoor: 500; Striped Parking Area: 100,481

(Architectural Coating - sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	704.00	275.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	141.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					0.2949	0.0000	0.2949	0.1515	0.0000	0.1515	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0399	0.4076	0.2750	5.7000e- 004		0.0184	0.0184		0.0170	0.0170	0.0000	50.1856	50.1856	0.0162	0.0000	50.5914
Total	0.0399	0.4076	0.2750	5.7000e- 004	0.2949	0.0184	0.3133	0.1515	0.0170	0.1685	0.0000	50.1856	50.1856	0.0162	0.0000	50.5914

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Elk Grove Station Project - Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e- 004	4.3000e- 004	5.8600e- 003	2.0000e- 005	1.9800e- 003	1.0000e- 005	1.9900e- 003	5.3000e- 004	1.0000e- 005	5.4000e- 004	0.0000	1.5511	1.5511	5.0000e- 005	4.0000e- 005	1.5648
Total	7.2000e- 004	4.3000e- 004	5.8600e- 003	2.0000e- 005	1.9800e- 003	1.0000e- 005	1.9900e- 003	5.3000e- 004	1.0000e- 005	5.4000e- 004	0.0000	1.5511	1.5511	5.0000e- 005	4.0000e- 005	1.5648

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					0.1327	0.0000	0.1327	0.0682	0.0000	0.0682	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0181	0.5058	0.3444	5.7000e- 004		0.0142	0.0142		0.0142	0.0142	0.0000	50.1855	50.1855	0.0162	0.0000	50.5913
Total	0.0181	0.5058	0.3444	5.7000e- 004	0.1327	0.0142	0.1469	0.0682	0.0142	0.0824	0.0000	50.1855	50.1855	0.0162	0.0000	50.5913

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3.2 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e- 004	4.3000e- 004	5.8600e- 003	2.0000e- 005	1.9800e- 003	1.0000e- 005	1.9900e- 003	5.3000e- 004	1.0000e- 005	5.4000e- 004	0.0000	1.5511	1.5511	5.0000e- 005	4.0000e- 005	1.5648
Total	7.2000e- 004	4.3000e- 004	5.8600e- 003	2.0000e- 005	1.9800e- 003	1.0000e- 005	1.9900e- 003	5.3000e- 004	1.0000e- 005	5.4000e- 004	0.0000	1.5511	1.5511	5.0000e- 005	4.0000e- 005	1.5648

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					0.2096	0.0000	0.2096	0.0625	0.0000	0.0625	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0483	0.4857	0.4158	9.3000e- 004		0.0200	0.0200		0.0184	0.0184	0.0000	81.7793	81.7793	0.0265	0.0000	82.4405
Total	0.0483	0.4857	0.4158	9.3000e- 004	0.2096	0.0200	0.2297	0.0625	0.0184	0.0810	0.0000	81.7793	81.7793	0.0265	0.0000	82.4405

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3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e- 004	4.7000e- 004	6.5100e- 003	2.0000e- 005	2.2000e- 003	1.0000e- 005	2.2100e- 003	5.9000e- 004	1.0000e- 005	6.0000e- 004	0.0000	1.7234	1.7234	5.0000e- 005	5.0000e- 005	1.7387
Total	8.0000e- 004	4.7000e- 004	6.5100e- 003	2.0000e- 005	2.2000e- 003	1.0000e- 005	2.2100e- 003	5.9000e- 004	1.0000e- 005	6.0000e- 004	0.0000	1.7234	1.7234	5.0000e- 005	5.0000e- 005	1.7387

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Fugitive Dust					0.0943	0.0000	0.0943	0.0281	0.0000	0.0281	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0272	0.7686	0.5508	9.3000e- 004		0.0200	0.0200	 	0.0200	0.0200	0.0000	81.7792	81.7792	0.0265	0.0000	82.4404
Total	0.0272	0.7686	0.5508	9.3000e- 004	0.0943	0.0200	0.1143	0.0281	0.0200	0.0481	0.0000	81.7792	81.7792	0.0265	0.0000	82.4404

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3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e- 004	4.7000e- 004	6.5100e- 003	2.0000e- 005	2.2000e- 003	1.0000e- 005	2.2100e- 003	5.9000e- 004	1.0000e- 005	6.0000e- 004	0.0000	1.7234	1.7234	5.0000e- 005	5.0000e- 005	1.7387
Total	8.0000e- 004	4.7000e- 004	6.5100e- 003	2.0000e- 005	2.2000e- 003	1.0000e- 005	2.2100e- 003	5.9000e- 004	1.0000e- 005	6.0000e- 004	0.0000	1.7234	1.7234	5.0000e- 005	5.0000e- 005	1.7387

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr									MT/yr							
Off-Road	0.1045	0.9545	1.1478	1.9100e- 003		0.0435	0.0435		0.0410	0.0410	0.0000	164.6129	164.6129	0.0389	0.0000	165.5860	
Total	0.1045	0.9545	1.1478	1.9100e- 003		0.0435	0.0435		0.0410	0.0410	0.0000	164.6129	164.6129	0.0389	0.0000	165.5860	

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3.4 Building Construction - 2024 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Category	tons/yr											MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
Vendor	0.0244	0.9329	0.2780	3.6500e- 003	0.1143	5.0000e- 003	0.1193	0.0330	4.7800e- 003	0.0378	0.0000	355.2511	355.2511	8.6800e- 003	0.0522	371.0363		
Worker	0.1341	0.0789	1.0846	3.0700e- 003	0.3671	1.8700e- 003	0.3690	0.0976	1.7200e- 003	0.0994	0.0000	287.1451	287.1451	8.4500e- 003	7.8300e- 003	289.6885		
Total	0.1584	1.0118	1.3626	6.7200e- 003	0.4814	6.8700e- 003	0.4883	0.1307	6.5000e- 003	0.1372	0.0000	642.3962	642.3962	0.0171	0.0601	660.7248		

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr									MT/yr							
Off-Road	0.0767	1.6724	1.2690	1.9100e- 003		0.0642	0.0642		0.0642	0.0642	0.0000	164.6127	164.6127	0.0389	0.0000	165.5858	
Total	0.0767	1.6724	1.2690	1.9100e- 003		0.0642	0.0642		0.0642	0.0642	0.0000	164.6127	164.6127	0.0389	0.0000	165.5858	

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3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e			
Category	tons/yr											MT/yr							
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
Vendor	0.0244	0.9329	0.2780	3.6500e- 003	0.1143	5.0000e- 003	0.1193	0.0330	4.7800e- 003	0.0378	0.0000	355.2511	355.2511	8.6800e- 003	0.0522	371.0363			
Worker	0.1341	0.0789	1.0846	3.0700e- 003	0.3671	1.8700e- 003	0.3690	0.0976	1.7200e- 003	0.0994	0.0000	287.1451	287.1451	8.4500e- 003	7.8300e- 003	289.6885			
Total	0.1584	1.0118	1.3626	6.7200e- 003	0.4814	6.8700e- 003	0.4883	0.1307	6.5000e- 003	0.1372	0.0000	642.3962	642.3962	0.0171	0.0601	660.7248			

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Off-Road	0.0397	0.3616	0.4665	7.8000e- 004		0.0153	0.0153		0.0144	0.0144	0.0000	67.2566	67.2566	0.0158	0.0000	67.6519	
Total	0.0397	0.3616	0.4665	7.8000e- 004		0.0153	0.0153		0.0144	0.0144	0.0000	67.2566	67.2566	0.0158	0.0000	67.6519	

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3.4 Building Construction - 2025 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.5900e- 003	0.3733	0.1109	1.4600e- 003	0.0467	2.0000e- 003	0.0487	0.0135	1.9100e- 003	0.0154	0.0000	142.1670	142.1670	3.4700e- 003	0.0209	148.4953
Worker	0.0514	0.0289	0.4144	1.2100e- 003	0.1499	7.3000e- 004	0.1507	0.0399	6.7000e- 004	0.0406	0.0000	114.4482	114.4482	3.1400e- 003	2.9900e- 003	115.4171
Total	0.0610	0.4022	0.5253	2.6700e- 003	0.1966	2.7300e- 003	0.1993	0.0534	2.5800e- 003	0.0560	0.0000	256.6152	256.6152	6.6100e- 003	0.0239	263.9123

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
	0.0314	0.6831	0.5183	7.8000e- 004		0.0262	0.0262		0.0262	0.0262	0.0000	67.2566	67.2566	0.0158	0.0000	67.6518
Total	0.0314	0.6831	0.5183	7.8000e- 004		0.0262	0.0262		0.0262	0.0262	0.0000	67.2566	67.2566	0.0158	0.0000	67.6518

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3.4 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.5900e- 003	0.3733	0.1109	1.4600e- 003	0.0467	2.0000e- 003	0.0487	0.0135	1.9100e- 003	0.0154	0.0000	142.1670	142.1670	3.4700e- 003	0.0209	148.4953
Worker	0.0514	0.0289	0.4144	1.2100e- 003	0.1499	7.3000e- 004	0.1507	0.0399	6.7000e- 004	0.0406	0.0000	114.4482	114.4482	3.1400e- 003	2.9900e- 003	115.4171
Total	0.0610	0.4022	0.5253	2.6700e- 003	0.1966	2.7300e- 003	0.1993	0.0534	2.5800e- 003	0.0560	0.0000	256.6152	256.6152	6.6100e- 003	0.0239	263.9123

3.5 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0206	0.1931	0.3280	5.1000e- 004		9.4200e- 003	9.4200e- 003		8.6600e- 003	8.6600e- 003	0.0000	45.0433	45.0433	0.0146	0.0000	45.4075
Paving	0.0483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.1931	0.3280	5.1000e- 004		9.4200e- 003	9.4200e- 003		8.6600e- 003	8.6600e- 003	0.0000	45.0433	45.0433	0.0146	0.0000	45.4075

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3.5 Paving - 2025
<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1 .	8.5000e- 004	4.8000e- 004	6.8500e- 003	2.0000e- 005	2.4800e- 003	1.0000e- 005	2.4900e- 003	6.6000e- 004	1.0000e- 005	6.7000e- 004	0.0000	1.8920	1.8920	5.0000e- 005	5.0000e- 005	1.9080
Total	8.5000e- 004	4.8000e- 004	6.8500e- 003	2.0000e- 005	2.4800e- 003	1.0000e- 005	2.4900e- 003	6.6000e- 004	1.0000e- 005	6.7000e- 004	0.0000	1.8920	1.8920	5.0000e- 005	5.0000e- 005	1.9080

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0210	0.4526	0.3892	5.1000e- 004		0.0150	0.0150		0.0150	0.0150	0.0000	45.0433	45.0433	0.0146	0.0000	45.4075
Paving	0.0483		 			0.0000	0.0000	1 1 1 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0692	0.4526	0.3892	5.1000e- 004		0.0150	0.0150		0.0150	0.0150	0.0000	45.0433	45.0433	0.0146	0.0000	45.4075

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3.5 Paving - 2025

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	8.5000e- 004	4.8000e- 004	6.8500e- 003	2.0000e- 005	2.4800e- 003	1.0000e- 005	2.4900e- 003	6.6000e- 004	1.0000e- 005	6.7000e- 004	0.0000	1.8920	1.8920	5.0000e- 005	5.0000e- 005	1.9080
Total	8.5000e- 004	4.8000e- 004	6.8500e- 003	2.0000e- 005	2.4800e- 003	1.0000e- 005	2.4900e- 003	6.6000e- 004	1.0000e- 005	6.7000e- 004	0.0000	1.8920	1.8920	5.0000e- 005	5.0000e- 005	1.9080

3.6 Architectural Coating - 2025 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Archit. Coating	0.2375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8400e- 003	0.0258	0.0407	7.0000e- 005		1.1600e- 003	1.1600e- 003		1.1600e- 003	1.1600e- 003	0.0000	5.7448	5.7448	3.1000e- 004	0.0000	5.7527
Total	0.2413	0.0258	0.0407	7.0000e- 005		1.1600e- 003	1.1600e- 003		1.1600e- 003	1.1600e- 003	0.0000	5.7448	5.7448	3.1000e- 004	0.0000	5.7527

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3.6 Architectural Coating - 2025 <u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	-/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9900e- 003	4.5000e- 003	0.0644	1.9000e- 004	0.0233	1.1000e- 004	0.0234	6.2000e- 003	1.0000e- 004	6.3000e- 003	0.0000	17.7844	17.7844	4.9000e- 004	4.6000e- 004	17.9350
Total	7.9900e- 003	4.5000e- 003	0.0644	1.9000e- 004	0.0233	1.1000e- 004	0.0234	6.2000e- 003	1.0000e- 004	6.3000e- 003	0.0000	17.7844	17.7844	4.9000e- 004	4.6000e- 004	17.9350

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Archit. Coating	0.2375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	2.5600e- 003	0.0529	0.0412	7.0000e- 005		2.1400e- 003	2.1400e- 003	1 1 1 1	2.1400e- 003	2.1400e- 003	0.0000	5.7448	5.7448	3.1000e- 004	0.0000	5.7527
Total	0.2401	0.0529	0.0412	7.0000e- 005		2.1400e- 003	2.1400e- 003		2.1400e- 003	2.1400e- 003	0.0000	5.7448	5.7448	3.1000e- 004	0.0000	5.7527

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9900e- 003	4.5000e- 003	0.0644	1.9000e- 004	0.0233	1.1000e- 004	0.0234	6.2000e- 003	1.0000e- 004	6.3000e- 003	0.0000	17.7844	17.7844	4.9000e- 004	4.6000e- 004	17.9350
Total	7.9900e- 003	4.5000e- 003	0.0644	1.9000e- 004	0.0233	1.1000e- 004	0.0234	6.2000e- 003	1.0000e- 004	6.3000e- 003	0.0000	17.7844	17.7844	4.9000e- 004	4.6000e- 004	17.9350

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	0.3384	0.3615	2.6032	4.8100e- 003	0.5025	3.9800e- 003	0.5065	0.1343	3.7200e- 003	0.1381	0.0000	455.9289	455.9289	0.0373	0.0253	464.3920
Unmitigated	0.3384	0.3615	2.6032	4.8100e- 003	0.5025	3.9800e- 003	0.5065	0.1343	3.7200e- 003	0.1381	0.0000	455.9289	455.9289	0.0373	0.0253	464.3920

4.2 Trip Summary Information

	Avei	age Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Library	880.00	880.00	880.00	1,355,995	1,355,995
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	880.00	880.00	880.00	1,355,995	1,355,995

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Library	10.00	5.00	6.50	52.00	43.00	5.00	44	44	12
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Library	0.546433	0.056674	0.183423	0.128799	0.024661	0.005883	0.013276	0.009437	0.000898	0.000581	0.025768	0.000959	0.003207
Other Asphalt Surfaces	0.546433	0.056674	0.183423	0.128799	0.024661	0.005883	0.013276	0.009437	0.000898	0.000581	0.025768	0.000959	0.003207
Other Non-Asphalt Surfaces	0.546433	0.056674	0.183423	0.128799	0.024661	0.005883	0.013276	0.009437	0.000898	0.000581	0.025768	0.000959	0.003207
Parking Lot	0.546433	0.056674	0.183423	0.128799	0.024661	0.005883	0.013276	0.009437	0.000898	0.000581	0.025768	0.000959	0.003207

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		tons/yr											MT	/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6.1673	6.1673	1.0000e- 003	1.2000e- 004	6.2283
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6.1673	6.1673	1.0000e- 003	1.2000e- 004	6.2283
NaturalGas Mitigated	1.9000e- 004	1.7400e- 003	1.4600e- 003	1.0000e- 005		1.3000e- 004	1.3000e- 004		1.3000e- 004	1.3000e- 004	0.0000	1.8982	1.8982	4.0000e- 005	3.0000e- 005	1.9094
NaturalGas Unmitigated	1.9000e- 004	1.7400e- 003	1.4600e- 003	1.0000e- 005		1.3000e- 004	1.3000e- 004		1.3000e- 004	1.3000e- 004	0.0000	1.8982	1.8982	4.0000e- 005	3.0000e- 005	1.9094

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr		tons/yr											MT	⁻/yr		
Library	35570	1.9000e- 004	1.7400e- 003	1.4600e- 003	1.0000e- 005		1.3000e- 004	1.3000e- 004		1.3000e- 004	1.3000e- 004	0.0000	1.8982	1.8982	4.0000e- 005	3.0000e- 005	1.9094
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.9000e- 004	1.7400e- 003	1.4600e- 003	1.0000e- 005		1.3000e- 004	1.3000e- 004		1.3000e- 004	1.3000e- 004	0.0000	1.8982	1.8982	4.0000e- 005	3.0000e- 005	1.9094

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	-/yr		
Library	35570	1.9000e- 004	1.7400e- 003	1.4600e- 003	1.0000e- 005	 	1.3000e- 004	1.3000e- 004		1.3000e- 004	1.3000e- 004	0.0000	1.8982	1.8982	4.0000e- 005	3.0000e- 005	1.9094
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.9000e- 004	1.7400e- 003	1.4600e- 003	1.0000e- 005		1.3000e- 004	1.3000e- 004		1.3000e- 004	1.3000e- 004	0.0000	1.8982	1.8982	4.0000e- 005	3.0000e- 005	1.9094

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity <u>Unmitigated</u>

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	-/yr	
Library	14820	1.3712	2.2000e- 004	3.0000e- 005	1.3848
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	51836.4	4.7961	7.8000e- 004	9.0000e- 005	4.8435
Total		6.1673	1.0000e- 003	1.2000e- 004	6.2283

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	/yr	
Library	14820	1.3712	2.2000e- 004	3.0000e- 005	1.3848
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	51836.4	4.7961	7.8000e- 004	9.0000e- 005	4.8435
Total		6.1673	1.0000e- 003	1.2000e- 004	6.2283

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	-/yr		
Mitigated	0.1360	1.0000e- 005	1.3700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6600e- 003	2.6600e- 003	1.0000e- 005	0.0000	2.8400e- 003
Unmitigated	0.1360	1.0000e- 005	1.3700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6600e- 003	2.6600e- 003	1.0000e- 005	0.0000	2.8400e- 003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory		tons/yr											MT	/yr		
Architectural Coating	0.0238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1122					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e- 004	1.0000e- 005	1.3700e- 003	0.0000	 	0.0000	0.0000		0.0000	0.0000	0.0000	2.6600e- 003	2.6600e- 003	1.0000e- 005	0.0000	2.8400e- 003
Total	0.1360	1.0000e- 005	1.3700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6600e- 003	2.6600e- 003	1.0000e- 005	0.0000	2.8400e- 003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory		tons/yr											MT	/yr		
Architectural Coating						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.1122				 	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e- 004	1.0000e- 005	1.3700e- 003	0.0000	 	0.0000	0.0000	 	0.0000	0.0000	0.0000	2.6600e- 003	2.6600e- 003	1.0000e- 005	0.0000	2.8400e- 003
Total	0.1360	1.0000e- 005	1.3700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6600e- 003	2.6600e- 003	1.0000e- 005	0.0000	2.8400e- 003

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category		МТ	-/yr	
ga.ea	0.0413	4.0000e- 005	2.0000e- 005	0.0498
Unmitigated	0.0413	4.0000e- 005	2.0000e- 005	0.0498

7.2 Water by Land Use <u>Unmitigated</u>

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
	0.0312889 / 0.0489391	0.0413	4.0000e- 005	2.0000e- 005	0.0498
Other Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0/0	0.0000	0.0000	0.0000	0.0000
Total		0.0413	4.0000e- 005	2.0000e- 005	0.0498

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7.2 Water by Land Use

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		MT	-/yr	
Library	0.0312889 / 0.0489391	0.0413	4.0000e- 005	2.0000e- 005	0.0498
Other Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0/0	0.0000	0.0000	0.0000	0.0000
Total		0.0413	4.0000e- 005	2.0000e- 005	0.0498

8.0 Waste Detail

8.1 Mitigation Measures Waste

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e		
	MT/yr					
ga.ea	0.1868	0.0110	0.0000	0.4627		
Unmitigated	0.1868	0.0110	0.0000	0.4627		

8.2 Waste by Land Use <u>Unmitigated</u>

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Library	0.92	0.1868	0.0110	0.0000	0.4627
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.1868	0.0110	0.0000	0.4627

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Library	0.92	0.1868	0.0110	0.0000	0.4627
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.1868	0.0110	0.0000	0.4627

9.0 Operational Offroad

Equipment Type Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
-----------------------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type Number Heat Input/Day Heat Input/Year Boiler Rating Fuel Type	Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

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Equipment Type Number

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Elk Grove Station Project

Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	1.00	1000sqft	0.02	1,000.00	0
Other Asphalt Surfaces	33.45	Acre	33.45	1,457,082.00	0
Other Non-Asphalt Surfaces	69.50	1000sqft	1.60	69,500.00	0
Parking Lot	3.40	Acre	3.40	148,104.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2025

Utility Company Pacific Gas and Electric Company

 CO2 Intensity
 203.98
 CH4 Intensity
 0.033
 N20 Intensity
 0.004

 (lb/MWhr)
 (lb/MWhr)
 (lb/MWhr)
 (lb/MWhr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Vehicle Trips - Based on the SJRRC Elk Grove Station General Plan Consistency Evaluation Memorandum, the proposed project would generate 880 trips.

Land Use - This analysis includes the following assumptions based on the Project Description: 1,000 squre feet for passenger amenities associated with the station; the proposed surface parking lot would be constructed on a 3.4-acre site; 10,000-foot long siding track and 3,900-foot replaced UPRR mainline track; and a total 38.47-acre project site.

Construction Phase - Assuming construction would begin early Spring 2024, last 14 months, and end mid 2025.

Construction Off-road Equipment Mitigation - Assuming compliance with SMAQMD BMPs and use of Tier 2 construction equipment.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	55.00	45.00
tblConstructionPhase	NumDays	740.00	200.00
tblConstructionPhase	NumDays	75.00	30.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	55.00	45.00
tblGrading	AcresOfGrading	90.00	225.00
tblVehicleTrips	ST_TR	80.09	880.00
tblVehicleTrips	SU_TR	42.09	880.00
tblVehicleTrips	WD_TR	72.05	880.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	day							lb/c	lay		
2024	4.0394	32.4058	37.8167	0.1257	19.7939	1.3362	21.0240	10.1388	1.2293	11.2704	0.0000	12,953.24 14	12,953.24 14	1.9472	0.9246	13,250.34 62
2025	14.2480	25.6079	36.4601	0.1230	7.0118	0.6214	7.6331	1.8973	0.5851	2.4824	0.0000	12,723.00 43	12,723.00 43	0.8456	0.9022	13,013.00 15
Maximum	14.2480	32.4058	37.8167	0.1257	19.7939	1.3362	21.0240	10.1388	1.2293	11.2704	0.0000	12,953.24 14	12,953.24 14	1.9472	0.9246	13,250.34 62

Mitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	day							lb/c	lay		
2024	3.6487	51.2675	39.5236	0.1257	8.9826	1.3341	9.9294	4.5824	1.3340	5.5292	0.0000	12,953.24 14	12,953.24 14	1.9472	0.9246	13,250.34 62
2025	14.2069	36.6926	38.2492	0.1230	7.0118	0.9974	8.0091	1.8973	0.9924	2.8897	0.0000	12,723.00 43	12,723.00 43	0.8456	0.9022	13,013.00 15
Maximum	14.2069	51.2675	39.5236	0.1257	8.9826	1.3341	9.9294	4.5824	1.3340	5.5292	0.0000	12,953.24 14	12,953.24 14	1.9472	0.9246	13,250.34 62

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	2.36	-51.62	-4.71	0.00	40.33	-19.10	37.40	46.16	-28.22	38.78	0.00	0.00	0.00	0.00	0.00	0.00

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Elk Grove Station Project - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	lay		
Area	0.7457	1.0000e- 004	0.0109	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005		0.0235	0.0235	6.0000e- 005		0.0250
Energy	1.0500e- 003	9.5500e- 003	8.0300e- 003	6.0000e- 005		7.3000e- 004	7.3000e- 004		7.3000e- 004	7.3000e- 004		11.4650	11.4650	2.2000e- 004	2.1000e- 004	11.5331
Mobile	2.3824	1.8373	14.9510	0.0284	2.8589	0.0219	2.8808	0.7621	0.0204	0.7826		2,961.956 0	2,961.956 0	0.2104	0.1470	3,011.013 0
Total	3.1291	1.8469	14.9699	0.0284	2.8589	0.0227	2.8815	0.7621	0.0212	0.7833		2,973.444 5	2,973.444 5	0.2106	0.1472	3,022.571 1

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Area	0.7457	1.0000e- 004	0.0109	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005		0.0235	0.0235	6.0000e- 005		0.0250
Energy	1.0500e- 003	9.5500e- 003	8.0300e- 003	6.0000e- 005		7.3000e- 004	7.3000e- 004		7.3000e- 004	7.3000e- 004		11.4650	11.4650	2.2000e- 004	2.1000e- 004	11.5331
Mobile	2.3824	1.8373	14.9510	0.0284	2.8589	0.0219	2.8808	0.7621	0.0204	0.7826		2,961.956 0	2,961.956 0	0.2104	0.1470	3,011.013 0
Total	3.1291	1.8469	14.9699	0.0284	2.8589	0.0227	2.8815	0.7621	0.0212	0.7833		2,973.444 5	2,973.444 5	0.2106	0.1472	3,022.571 1

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/25/2024	5/3/2024	5	30	
2	Grading	Grading	5/4/2024	6/14/2024	5	30	
3	Building Construction	Building Construction	6/17/2024	3/21/2025	5	200	
4	Paving	Paving	3/24/2025	5/23/2025	5	45	
5	Architectural Coating	Architectural Coating	3/24/2025	5/23/2025	5	45	

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 225

Acres of Paving: 38.45

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,500; Non-Residential Outdoor: 500; Striped Parking Area: 100,481 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	- + 1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	704.00	275.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	141.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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Elk Grove Station Project - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.010 0	3,688.010 0	1.1928		3,717.829 4
Total	2.6609	27.1760	18.3356	0.0381	19.6570	1.2294	20.8864	10.1025	1.1310	11.2335		3,688.010 0	3,688.010 0	1.1928		3,717.829 4

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0567	0.0260	0.4554	1.2100e- 003	0.1369	6.7000e- 004	0.1376	0.0363	6.2000e- 004	0.0369		124.8755	124.8755	3.1800e- 003	2.9300e- 003	125.8270
Total	0.0567	0.0260	0.4554	1.2100e- 003	0.1369	6.7000e- 004	0.1376	0.0363	6.2000e- 004	0.0369		124.8755	124.8755	3.1800e- 003	2.9300e- 003	125.8270

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Elk Grove Station Project - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	1.2097	33.7214	22.9600	0.0381	 	0.9462	0.9462		0.9462	0.9462	0.0000	3,688.010 0	3,688.010 0	1.1928	 	3,717.829 4
Total	1.2097	33.7214	22.9600	0.0381	8.8457	0.9462	9.7918	4.5461	0.9462	5.4923	0.0000	3,688.010 0	3,688.010 0	1.1928		3,717.829 4

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0567	0.0260	0.4554	1.2100e- 003	0.1369	6.7000e- 004	0.1376	0.0363	6.2000e- 004	0.0369		124.8755	124.8755	3.1800e- 003	2.9300e- 003	125.8270
Total	0.0567	0.0260	0.4554	1.2100e- 003	0.1369	6.7000e- 004	0.1376	0.0363	6.2000e- 004	0.0369		124.8755	124.8755	3.1800e- 003	2.9300e- 003	125.8270

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust	11 11 11				13.9758	0.0000	13.9758	4.1691	0.0000	4.1691			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.748 7	6,009.748 7	1.9437		6,058.340 5
Total	3.2181	32.3770	27.7228	0.0621	13.9758	1.3354	15.3112	4.1691	1.2286	5.3976		6,009.748 7	6,009.748 7	1.9437		6,058.340 5

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0630	0.0289	0.5060	1.3500e- 003	0.1521	7.5000e- 004	0.1529	0.0404	6.9000e- 004	0.0410		138.7506	138.7506	3.5300e- 003	3.2500e- 003	139.8078
Total	0.0630	0.0289	0.5060	1.3500e- 003	0.1521	7.5000e- 004	0.1529	0.0404	6.9000e- 004	0.0410		138.7506	138.7506	3.5300e- 003	3.2500e- 003	139.8078

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					6.2891	0.0000	6.2891	1.8761	0.0000	1.8761			0.0000			0.0000
Off-Road	1.8106	51.2386	36.7226	0.0621		1.3333	1.3333		1.3333	1.3333	0.0000	6,009.748 7	6,009.748 7	1.9437	 	6,058.340 5
Total	1.8106	51.2386	36.7226	0.0621	6.2891	1.3333	7.6224	1.8761	1.3333	3.2094	0.0000	6,009.748 7	6,009.748 7	1.9437		6,058.340 5

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0630	0.0289	0.5060	1.3500e- 003	0.1521	7.5000e- 004	0.1529	0.0404	6.9000e- 004	0.0410		138.7506	138.7506	3.5300e- 003	3.2500e- 003	139.8078
Total	0.0630	0.0289	0.5060	1.3500e- 003	0.1521	7.5000e- 004	0.1529	0.0404	6.9000e- 004	0.0410		138.7506	138.7506	3.5300e- 003	3.2500e- 003	139.8078

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2024 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133	1 1 1	0.5769	0.5769		2,555.698 9	2,555.698 9	0.6044		2,570.807 7
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.698 9	2,555.698 9	0.6044		2,570.807 7

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3520	12.4807	3.8397	0.0514	1.6566	0.0701	1.7267	0.4768	0.0670	0.5438		5,513.522 8	5,513.522 8	0.1350	0.8101	5,758.303 8
Worker	2.2158	1.0154	17.8102	0.0474	5.3553	0.0263	5.3816	1.4206	0.0242	1.4448		4,884.019 6	4,884.019 6	0.1242	0.1145	4,921.234 7
Total	2.5678	13.4961	21.6499	0.0987	7.0119	0.0964	7.1083	1.8974	0.0912	1.9886		10,397.54 25	10,397.54 25	0.2592	0.9246	10,679.53 86

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	1.0809	23.5544	17.8738	0.0270		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7
Total	1.0809	23.5544	17.8738	0.0270		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3520	12.4807	3.8397	0.0514	1.6566	0.0701	1.7267	0.4768	0.0670	0.5438		5,513.522 8	5,513.522 8	0.1350	0.8101	5,758.303 8
Worker	2.2158	1.0154	17.8102	0.0474	5.3553	0.0263	5.3816	1.4206	0.0242	1.4448		4,884.019 6	4,884.019 6	0.1242	0.1145	4,921.234 7
Total	2.5678	13.4961	21.6499	0.0987	7.0119	0.0964	7.1083	1.8974	0.0912	1.9886		10,397.54 25	10,397.54 25	0.2592	0.9246	10,679.53 86

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3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276	1 1 1	0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Category	lb/day										lb/day							
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000		
Vendor	0.3393	12.2267	3.7497	0.0503	1.6564	0.0687	1.7251	0.4767	0.0657	0.5424		5,401.722 4	5,401.722 4	0.1322	0.7952	5,641.986 4		
Worker	2.0802	0.9115	16.6258	0.0457	5.3553	0.0251	5.3805	1.4206	0.0231	1.4437		4,764.807 5	4,764.807 5	0.1125	0.1070	4,799.517 0		
Total	2.4196	13.1382	20.3754	0.0961	7.0118	0.0938	7.1056	1.8973	0.0888	1.9861		10,166.52 99	10,166.52 99	0.2447	0.9022	10,441.50 35		

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3.4 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Category	lb/day										lb/day							
	1.0809	23.5544	17.8738	0.0270		0.9036	0.9036	1 1 1	0.9036	0.9036	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1		
Total	1.0809	23.5544	17.8738	0.0270		0.9036	0.9036		0.9036	0.9036	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1		

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Category	lb/day										lb/day							
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000		
Vendor	0.3393	12.2267	3.7497	0.0503	1.6564	0.0687	1.7251	0.4767	0.0657	0.5424		5,401.722 4	5,401.722 4	0.1322	0.7952	5,641.986 4		
Worker	2.0802	0.9115	16.6258	0.0457	5.3553	0.0251	5.3805	1.4206	0.0231	1.4437		4,764.807 5	4,764.807 5	0.1125	0.1070	4,799.517 0		
Total	2.4196	13.1382	20.3754	0.0961	7.0118	0.0938	7.1056	1.8973	0.0888	1.9861		10,166.52 99	10,166.52 99	0.2447	0.9022	10,441.50 35		

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3.5 Paving - 2025
<u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Category	lb/day										lb/day							
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8		
Paving	2.1455					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000		
Total	3.0606	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8		

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e		
Category	lb/day										lb/day							
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000		
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000		
Worker	0.0443	0.0194	0.3542	9.7000e- 004	0.1141	5.4000e- 004	0.1146	0.0303	4.9000e- 004	0.0308		101.5229	101.5229	2.4000e- 003	2.2800e- 003	102.2624		
Total	0.0443	0.0194	0.3542	9.7000e- 004	0.1141	5.4000e- 004	0.1146	0.0303	4.9000e- 004	0.0308		101.5229	101.5229	2.4000e- 003	2.2800e- 003	102.2624		

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Elk Grove Station Project - Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2025

<u>Mitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	0.9311	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	2.1455					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.0765	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0443	0.0194	0.3542	9.7000e- 004	0.1141	5.4000e- 004	0.1146	0.0303	4.9000e- 004	0.0308		101.5229	101.5229	2.4000e- 003	2.2800e- 003	102.2624
Total	0.0443	0.0194	0.3542	9.7000e- 004	0.1141	5.4000e- 004	0.1146	0.0303	4.9000e- 004	0.0308		101.5229	101.5229	2.4000e- 003	2.2800e- 003	102.2624

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Archit. Coating	10.5555					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e- 003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154	 	281.8319
Total	10.7264	1.1455	1.8091	2.9700e- 003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4166	0.1826	3.3299	9.1600e- 003	1.0726	5.0300e- 003	1.0776	0.2845	4.6300e- 003	0.2892		954.3151	954.3151	0.0225	0.0214	961.2669
Total	0.4166	0.1826	3.3299	9.1600e- 003	1.0726	5.0300e- 003	1.0776	0.2845	4.6300e- 003	0.2892		954.3151	954.3151	0.0225	0.0214	961.2669

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Archit. Coating	10.5555					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e- 003	 	0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0154		281.8319
Total	10.6695	2.3524	1.8324	2.9700e- 003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0154		281.8319

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	! !	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4166	0.1826	3.3299	9.1600e- 003	1.0726	5.0300e- 003	1.0776	0.2845	4.6300e- 003	0.2892		954.3151	954.3151	0.0225	0.0214	961.2669
Total	0.4166	0.1826	3.3299	9.1600e- 003	1.0726	5.0300e- 003	1.0776	0.2845	4.6300e- 003	0.2892		954.3151	954.3151	0.0225	0.0214	961.2669

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Mitigated	2.3824	1.8373	14.9510	0.0284	2.8589	0.0219	2.8808	0.7621	0.0204	0.7826		2,961.956 0	2,961.956 0	0.2104	0.1470	3,011.013 0
Unmitigated	2.3824	1.8373	14.9510	0.0284	2.8589	0.0219	2.8808	0.7621	0.0204	0.7826		2,961.956 0	2,961.956 0	0.2104	0.1470	3,011.013 0

4.2 Trip Summary Information

	Avei	age Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Library	880.00	880.00	880.00	1,355,995	1,355,995
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	880.00	880.00	880.00	1,355,995	1,355,995

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Library	10.00	5.00	6.50	52.00	43.00	5.00	44	44	12
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

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		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Library	0.546433	0.056674	0.183423	0.128799	0.024661	0.005883	0.013276	0.009437	0.000898	0.000581	0.025768	0.000959	0.003207
Other Asphalt Surfaces	0.546433	0.056674	0.183423	0.128799	0.024661	0.005883	0.013276	0.009437	0.000898	0.000581	0.025768	0.000959	0.003207
Other Non-Asphalt Surfaces	0.546433	0.056674	0.183423	0.128799	0.024661	0.005883	0.013276	0.009437	0.000898	0.000581	0.025768	0.000959	0.003207
Parking Lot	0.546433	0.056674	0.183423	0.128799	0.024661	0.005883	0.013276	0.009437	0.000898	0.000581	0.025768	0.000959	0.003207

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Mitigrated	1.0500e- 003	9.5500e- 003	8.0300e- 003	6.0000e- 005		7.3000e- 004	7.3000e- 004		7.3000e- 004	7.3000e- 004		11.4650	11.4650	2.2000e- 004	2.1000e- 004	11.5331
	1.0500e- 003	9.5500e- 003	8.0300e- 003	6.0000e- 005		7.3000e- 004	7.3000e- 004		7.3000e- 004	7.3000e- 004		11.4650	11.4650	2.2000e- 004	2.1000e- 004	11.5331

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/d	day		
Library	97.4521	1.0500e- 003	9.5500e- 003	8.0300e- 003	6.0000e- 005		7.3000e- 004	7.3000e- 004		7.3000e- 004	7.3000e- 004		11.4650	11.4650	2.2000e- 004	2.1000e- 004	11.5331
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.0500e- 003	9.5500e- 003	8.0300e- 003	6.0000e- 005		7.3000e- 004	7.3000e- 004		7.3000e- 004	7.3000e- 004		11.4650	11.4650	2.2000e- 004	2.1000e- 004	11.5331

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5.2 Energy by Land Use - NaturalGas

Mitigated

Total		1.0500e- 003	9.5500e- 003	8.0300e- 003	6.0000e- 005		7.3000e- 004	7.3000e- 004		7.3000e- 004	7.3000e- 004		11.4650	11.4650	2.2000e- 004	2.1000e- 004	11.5331
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	#	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Library	0.0974521	1.0500e- 003	9.5500e- 003	8.0300e- 003	6.0000e- 005		7.3000e- 004	7.3000e- 004	_	7.3000e- 004	7.3000e- 004		11.4650	11.4650	2.2000e- 004	2.1000e- 004	11.5331
Land Use	kBTU/yr					lb/d	day							lb/d	day		
	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day							lb/d	day							
Mitigated	0.7457	1.0000e- 004	0.0109	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005		0.0235	0.0235	6.0000e- 005		0.0250
Unmitigated	0.7457	1.0000e- 004	0.0109	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005		0.0235	0.0235	6.0000e- 005		0.0250

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	day		
Architectural Coating	0.1301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0100e- 003	1.0000e- 004	0.0109	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005		0.0235	0.0235	6.0000e- 005		0.0250
Total	0.7457	1.0000e- 004	0.0109	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005		0.0235	0.0235	6.0000e- 005		0.0250

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	day		
Coating	0.1301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Products	0.6146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landocaping	1.0100e- 003	1.0000e- 004	0.0109	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005		0.0235	0.0235	6.0000e- 005		0.0250
Total	0.7457	1.0000e- 004	0.0109	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005		0.0235	0.0235	6.0000e- 005		0.0250

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Elk Grove Station Project

Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	1.00	1000sqft	0.02	1,000.00	0
Other Asphalt Surfaces	33.45	Acre	33.45	1,457,082.00	0
Other Non-Asphalt Surfaces	69.50	1000sqft	1.60	69,500.00	0
Parking Lot	3.40	Acre	3.40	148,104.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2025

Utility Company Pacific Gas and Electric Company

 CO2 Intensity
 203.98
 CH4 Intensity
 0.033
 N2O Intensity
 0.004

 (lb/MWhr)
 (lb/MWhr)
 (lb/MWhr)
 (lb/MWhr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Vehicle Trips - Based on the SJRRC Elk Grove Station General Plan Consistency Evaluation Memorandum, the proposed project would generate 880 trips.

Land Use - This analysis includes the following assumptions based on the Project Description: 1,000 squre feet for passenger amenities associated with the station; the proposed surface parking lot would be constructed on a 3.4-acre site; 10,000-foot long siding track and 3,900-foot replaced UPRR mainline track; and a total 38.47-acre project site.

Construction Phase - Assuming construction would begin early Spring 2024, last 14 months, and end mid 2025.

Construction Off-road Equipment Mitigation - Assuming compliance with SMAQMD BMPs and use of Tier 2 construction equipment.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	55.00	45.00
tblConstructionPhase	NumDays	740.00	200.00
tblConstructionPhase	NumDays	75.00	30.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	55.00	45.00
tblGrading	AcresOfGrading	90.00	225.00
tblVehicleTrips	ST_TR	80.09	880.00
tblVehicleTrips	SU_TR	42.09	880.00
tblVehicleTrips	WD_TR	72.05	880.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	day							lb/d	day		
2024	3.7778	32.4123	35.7688	0.1205	19.7939	1.3362	21.0240	10.1388	1.2293	11.2704	0.0000	12,419.78 61	12,419.78 61	1.9478	0.9432	12,722.92 03
2025	14.1967	26.7356	34.6109	0.1180	7.0118	0.6220	7.6338	1.8973	0.5857	2.4830	0.0000	12,204.42 96	12,204.42 96	0.8634	0.9197	12,500.06 90
Maximum	14.1967	32.4123	35.7688	0.1205	19.7939	1.3362	21.0240	10.1388	1.2293	11.2704	0.0000	12,419.78 61	12,419.78 61	1.9478	0.9432	12,722.92 03

Mitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	day							lb/d	lay		
2024	3.3871	51.2740	37.4757	0.1205	8.9826	1.3341	9.9294	4.5824	1.3340	5.5292	0.0000	12,419.78 61	12,419.78 61	1.9478	0.9432	12,722.92 03
2025	14.1556	37.8203	36.4000	0.1180	7.0118	0.9980	8.0098	1.8973	0.9930	2.8903	0.0000	12,204.42 96	12,204.42 96	0.8634	0.9197	12,500.06 90
Maximum	14.1556	51.2740	37.4757	0.1205	8.9826	1.3341	9.9294	4.5824	1.3340	5.5292	0.0000	12,419.78 61	12,419.78 61	1.9478	0.9432	12,722.92 03

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Elk Grove Station Project - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	2.40	-50.63	-4.97	0.00	40.33	-19.09	37.40	46.16	-28.21	38.78	0.00	0.00	0.00	0.00	0.00	0.00

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Elk Grove Station Project - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Area	0.7457	1.0000e- 004	0.0109	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005		0.0235	0.0235	6.0000e- 005		0.0250
Energy	1.0500e- 003	9.5500e- 003	8.0300e- 003	6.0000e- 005		7.3000e- 004	7.3000e- 004		7.3000e- 004	7.3000e- 004		11.4650	11.4650	2.2000e- 004	2.1000e- 004	11.5331
Mobile	1.7614	2.1206	15.6002	0.0260	2.8589	0.0220	2.8808	0.7621	0.0205	0.7826		2,714.733 4	2,714.733 4	0.2470	0.1611	2,768.910 3
Total	2.5081	2.1302	15.6191	0.0260	2.8589	0.0227	2.8816	0.7621	0.0213	0.7834		2,726.221 9	2,726.221 9	0.2473	0.1613	2,780.468 4

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	day		
Area	0.7457	1.0000e- 004	0.0109	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005		0.0235	0.0235	6.0000e- 005		0.0250
Energy	1.0500e- 003	9.5500e- 003	8.0300e- 003	6.0000e- 005		7.3000e- 004	7.3000e- 004		7.3000e- 004	7.3000e- 004		11.4650	11.4650	2.2000e- 004	2.1000e- 004	11.5331
Mobile	1.7614	2.1206	15.6002	0.0260	2.8589	0.0220	2.8808	0.7621	0.0205	0.7826		2,714.733 4	2,714.733 4	0.2470	0.1611	2,768.910 3
Total	2.5081	2.1302	15.6191	0.0260	2.8589	0.0227	2.8816	0.7621	0.0213	0.7834		2,726.221 9	2,726.221 9	0.2473	0.1613	2,780.468 4

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	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/25/2024	5/3/2024	5	30	
2	Grading	Grading	5/4/2024	6/14/2024	5	30	
3	Building Construction	Building Construction	6/17/2024	3/21/2025	5	200	
4	Paving	Paving	3/24/2025	5/23/2025	5	45	
5	Architectural Coating	Architectural Coating	3/24/2025	5/23/2025	5	45	

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 225

Acres of Paving: 38.45

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,500; Non-Residential Outdoor: 500; Striped Parking Area: 100,481 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	704.00	275.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	141.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.010 0	3,688.010 0	1.1928	 	3,717.829 4
Total	2.6609	27.1760	18.3356	0.0381	19.6570	1.2294	20.8864	10.1025	1.1310	11.2335		3,688.010 0	3,688.010 0	1.1928		3,717.829 4

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	! !	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0503	0.0318	0.3985	1.0800e- 003	0.1369	6.7000e- 004	0.1376	0.0363	6.2000e- 004	0.0369		111.1171	111.1171	3.6800e- 003	3.3500e- 003	112.2087
Total	0.0503	0.0318	0.3985	1.0800e- 003	0.1369	6.7000e- 004	0.1376	0.0363	6.2000e- 004	0.0369		111.1171	111.1171	3.6800e- 003	3.3500e- 003	112.2087

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461		i i	0.0000		! !	0.0000
Off-Road	1.2097	33.7214	22.9600	0.0381		0.9462	0.9462		0.9462	0.9462	0.0000	3,688.010 0	3,688.010 0	1.1928		3,717.829 4
Total	1.2097	33.7214	22.9600	0.0381	8.8457	0.9462	9.7918	4.5461	0.9462	5.4923	0.0000	3,688.010 0	3,688.010 0	1.1928		3,717.829 4

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0503	0.0318	0.3985	1.0800e- 003	0.1369	6.7000e- 004	0.1376	0.0363	6.2000e- 004	0.0369		111.1171	111.1171	3.6800e- 003	3.3500e- 003	112.2087
Total	0.0503	0.0318	0.3985	1.0800e- 003	0.1369	6.7000e- 004	0.1376	0.0363	6.2000e- 004	0.0369		111.1171	111.1171	3.6800e- 003	3.3500e- 003	112.2087

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Fugitive Dust					13.9758	0.0000	13.9758	4.1691	0.0000	4.1691			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.748 7	6,009.748 7	1.9437		6,058.340 5
Total	3.2181	32.3770	27.7228	0.0621	13.9758	1.3354	15.3112	4.1691	1.2286	5.3976		6,009.748 7	6,009.748 7	1.9437		6,058.340 5

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0354	0.4428	1.2000e- 003	0.1521	7.5000e- 004	0.1529	0.0404	6.9000e- 004	0.0410		123.4634	123.4634	4.0900e- 003	3.7300e- 003	124.6763
Total	0.0559	0.0354	0.4428	1.2000e- 003	0.1521	7.5000e- 004	0.1529	0.0404	6.9000e- 004	0.0410		123.4634	123.4634	4.0900e- 003	3.7300e- 003	124.6763

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					6.2891	0.0000	6.2891	1.8761	0.0000	1.8761			0.0000			0.0000
Off-Road	1.8106	51.2386	36.7226	0.0621		1.3333	1.3333		1.3333	1.3333	0.0000	6,009.748 7	6,009.748 7	1.9437		6,058.340 5
Total	1.8106	51.2386	36.7226	0.0621	6.2891	1.3333	7.6224	1.8761	1.3333	3.2094	0.0000	6,009.748 7	6,009.748 7	1.9437		6,058.340 5

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0354	0.4428	1.2000e- 003	0.1521	7.5000e- 004	0.1529	0.0404	6.9000e- 004	0.0410		123.4634	123.4634	4.0900e- 003	3.7300e- 003	124.6763
Total	0.0559	0.0354	0.4428	1.2000e- 003	0.1521	7.5000e- 004	0.1529	0.0404	6.9000e- 004	0.0410		123.4634	123.4634	4.0900e- 003	3.7300e- 003	124.6763

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Elk Grove Station Project - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2024 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133	1 1 1	0.5769	0.5769		2,555.698 9	2,555.698 9	0.6044		2,570.807 7
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.698 9	2,555.698 9	0.6044		2,570.807 7

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3398	13.4179	4.0167	0.0514	1.6566	0.0708	1.7274	0.4768	0.0677	0.5445		5,518.174 5	5,518.174 5	0.1344	0.8120	5,763.506 9
Worker	1.9664	1.2451	15.5852	0.0421	5.3553	0.0263	5.3816	1.4206	0.0242	1.4448		4,345.912 7	4,345.912 7	0.1438	0.1312	4,388.605 8
Total	2.3062	14.6630	19.6019	0.0936	7.0119	0.0971	7.1090	1.8974	0.0919	1.9893		9,864.087 2	9,864.087	0.2782	0.9432	10,152.11 26

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.0809	23.5544	17.8738	0.0270		0.9036	0.9036	1 1 1	0.9036	0.9036	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7
Total	1.0809	23.5544	17.8738	0.0270		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3398	13.4179	4.0167	0.0514	1.6566	0.0708	1.7274	0.4768	0.0677	0.5445		5,518.174 5	5,518.174 5	0.1344	0.8120	5,763.506 9
Worker	1.9664	1.2451	15.5852	0.0421	5.3553	0.0263	5.3816	1.4206	0.0242	1.4448		4,345.912 7	4,345.912 7	0.1438	0.1312	4,388.605 8
Total	2.3062	14.6630	19.6019	0.0936	7.0119	0.0971	7.1090	1.8974	0.0919	1.9893		9,864.087 2	9,864.087	0.2782	0.9432	10,152.11 26

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Elk Grove Station Project - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2025 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3270	13.1487	3.9221	0.0504	1.6564	0.0693	1.7258	0.4767	0.0663	0.5431		5,406.889 1	5,406.889 1	0.1316	0.7970	5,647.690 3
Worker	1.8485	1.1172	14.6042	0.0407	5.3553	0.0251	5.3805	1.4206	0.0231	1.4437		4,241.066 1	4,241.066 1	0.1309	0.1226	4,280.880 7
Total	2.1755	14.2659	18.5263	0.0911	7.0118	0.0945	7.1062	1.8973	0.0895	1.9868		9,647.955 2	9,647.955 2	0.2624	0.9197	9,928.570 9

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	1.0809	23.5544	17.8738	0.0270		0.9036	0.9036		0.9036	0.9036	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.0809	23.5544	17.8738	0.0270		0.9036	0.9036		0.9036	0.9036	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3270	13.1487	3.9221	0.0504	1.6564	0.0693	1.7258	0.4767	0.0663	0.5431		5,406.889 1	5,406.889 1	0.1316	0.7970	5,647.690 3
Worker	1.8485	1.1172	14.6042	0.0407	5.3553	0.0251	5.3805	1.4206	0.0231	1.4437		4,241.066 1	4,241.066 1	0.1309	0.1226	4,280.880 7
Total	2.1755	14.2659	18.5263	0.0911	7.0118	0.0945	7.1062	1.8973	0.0895	1.9868		9,647.955 2	9,647.955 2	0.2624	0.9197	9,928.570 9

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2025
<u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	2.1455					0.0000	0.0000		0.0000	0.0000		! ! !	0.0000			0.0000
Total	3.0606	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0394	0.0238	0.3112	8.7000e- 004	0.1141	5.4000e- 004	0.1146	0.0303	4.9000e- 004	0.0308		90.3636	90.3636	2.7900e- 003	2.6100e- 003	91.2120
Total	0.0394	0.0238	0.3112	8.7000e- 004	0.1141	5.4000e- 004	0.1146	0.0303	4.9000e- 004	0.0308		90.3636	90.3636	2.7900e- 003	2.6100e- 003	91.2120

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Elk Grove Station Project - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2025

<u>Mitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Off-Road	0.9311	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	2.1455					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.0765	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	! !	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0394	0.0238	0.3112	8.7000e- 004	0.1141	5.4000e- 004	0.1146	0.0303	4.9000e- 004	0.0308		90.3636	90.3636	2.7900e- 003	2.6100e- 003	91.2120
Total	0.0394	0.0238	0.3112	8.7000e- 004	0.1141	5.4000e- 004	0.1146	0.0303	4.9000e- 004	0.0308		90.3636	90.3636	2.7900e- 003	2.6100e- 003	91.2120

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	10.5555					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e- 003	 	0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	10.7264	1.1455	1.8091	2.9700e- 003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3702	0.2238	2.9250	8.1500e- 003	1.0726	5.0300e- 003	1.0776	0.2845	4.6300e- 003	0.2892		849.4181	849.4181	0.0262	0.0246	857.3923
Total	0.3702	0.2238	2.9250	8.1500e- 003	1.0726	5.0300e- 003	1.0776	0.2845	4.6300e- 003	0.2892		849.4181	849.4181	0.0262	0.0246	857.3923

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2025 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Archit. Coating	10.5555					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e- 003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0154		281.8319
Total	10.6695	2.3524	1.8324	2.9700e- 003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0154		281.8319

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	! !	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3702	0.2238	2.9250	8.1500e- 003	1.0726	5.0300e- 003	1.0776	0.2845	4.6300e- 003	0.2892		849.4181	849.4181	0.0262	0.0246	857.3923
Total	0.3702	0.2238	2.9250	8.1500e- 003	1.0726	5.0300e- 003	1.0776	0.2845	4.6300e- 003	0.2892		849.4181	849.4181	0.0262	0.0246	857.3923

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Mitigated	1.7614	2.1206	15.6002	0.0260	2.8589	0.0220	2.8808	0.7621	0.0205	0.7826		2,714.733 4	2,714.733 4	0.2470	0.1611	2,768.910 3
Unmitigated	1.7614	2.1206	15.6002	0.0260	2.8589	0.0220	2.8808	0.7621	0.0205	0.7826		2,714.733 4	2,714.733 4	0.2470	0.1611	2,768.910 3

4.2 Trip Summary Information

	Avei	age Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Library	880.00	880.00	880.00	1,355,995	1,355,995
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	880.00	880.00	880.00	1,355,995	1,355,995

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Library	10.00	5.00	6.50	52.00	43.00	5.00	44	44	12
Other Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Library	0.546433	0.056674	0.183423	0.128799	0.024661	0.005883	0.013276	0.009437	0.000898	0.000581	0.025768	0.000959	0.003207
Other Asphalt Surfaces	0.546433	0.056674	0.183423	0.128799	0.024661	0.005883	0.013276	0.009437	0.000898	0.000581	0.025768	0.000959	0.003207
Other Non-Asphalt Surfaces	0.546433	0.056674	0.183423	0.128799	0.024661	0.005883	0.013276	0.009437	0.000898	0.000581	0.025768	0.000959	0.003207
Parking Lot	0.546433	0.056674	0.183423	0.128799	0.024661	0.005883	0.013276	0.009437	0.000898	0.000581	0.025768	0.000959	0.003207

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Mitigrated	1.0500e- 003	9.5500e- 003	8.0300e- 003	6.0000e- 005		7.3000e- 004	7.3000e- 004		7.3000e- 004	7.3000e- 004		11.4650	11.4650	2.2000e- 004	2.1000e- 004	11.5331
	1.0500e- 003	9.5500e- 003	8.0300e- 003	6.0000e- 005		7.3000e- 004	7.3000e- 004	 	7.3000e- 004	7.3000e- 004		11.4650	11.4650	2.2000e- 004	2.1000e- 004	11.5331

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGa s Use	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day lb/day															
Library	97.4521	1.0500e- 003	9.5500e- 003	8.0300e- 003	6.0000e- 005		7.3000e- 004	7.3000e- 004		7.3000e- 004	7.3000e- 004		11.4650	11.4650	2.2000e- 004	2.1000e- 004	11.5331
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.0500e- 003	9.5500e- 003	8.0300e- 003	6.0000e- 005		7.3000e- 004	7.3000e- 004		7.3000e- 004	7.3000e- 004		11.4650	11.4650	2.2000e- 004	2.1000e- 004	11.5331

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Elk Grove Station Project - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr		lb/day l														
Library	0.0974521	1.0500e- 003	9.5500e- 003	8.0300e- 003	6.0000e- 005		7.3000e- 004	7.3000e- 004		7.3000e- 004	7.3000e- 004		11.4650	11.4650	2.2000e- 004	2.1000e- 004	11.5331
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.0500e- 003	9.5500e- 003	8.0300e- 003	6.0000e- 005		7.3000e- 004	7.3000e- 004		7.3000e- 004	7.3000e- 004		11.4650	11.4650	2.2000e- 004	2.1000e- 004	11.5331

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	day		
Mitigated	0.7457	1.0000e- 004	0.0109	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005		0.0235	0.0235	6.0000e- 005		0.0250
Unmitigated	0.7457	1.0000e- 004	0.0109	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005		0.0235	0.0235	6.0000e- 005		0.0250

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	day		
Architectural Coating	0.1301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Products	0.6146					0.0000	0.0000	 	0.0000	0.0000			0.0000			0.0000
,	1.0100e- 003	1.0000e- 004	0.0109	0.0000		4.0000e- 005	4.0000e- 005	 	4.0000e- 005	4.0000e- 005		0.0235	0.0235	6.0000e- 005		0.0250
Total	0.7457	1.0000e- 004	0.0109	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005		0.0235	0.0235	6.0000e- 005		0.0250

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Elk Grove Station Project - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	day		
Architectural Coating	0.1301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
	0.6146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.01000	1.0000e- 004	0.0109	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005		0.0235	0.0235	6.0000e- 005		0.0250
Total	0.7457	1.0000e- 004	0.0109	0.0000		4.0000e- 005	4.0000e- 005		4.0000e- 005	4.0000e- 005		0.0235	0.0235	6.0000e- 005		0.0250

7.0 Water Detail

7.1 Mitigation Measures Water

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Elk Grove Station Project - Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation



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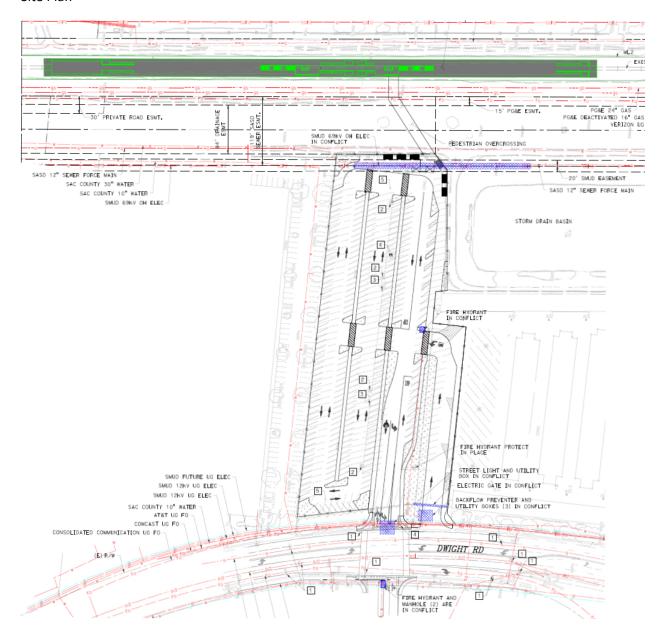
APPENDIX D

HEALTH RISK ASSESSMENT

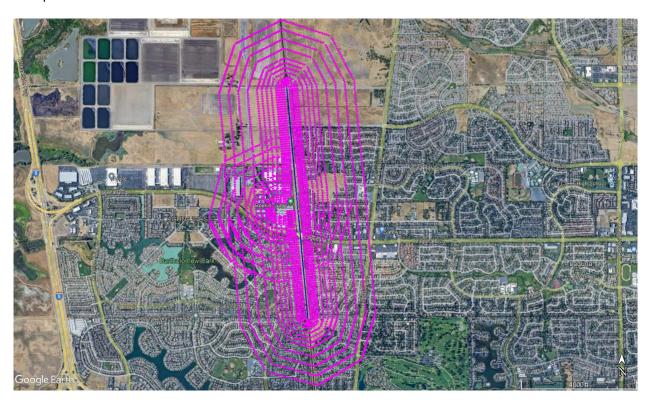
Boundary



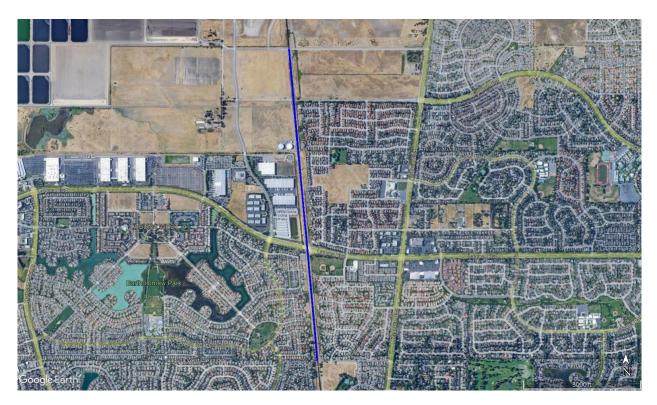
Site Plan



Receptor Grid



Sources



30-Year Cancer Risk



70-Year Cancer Risk



Chronic Hazard Index



 $PM_{2.5}\,Concentration$



EPA Rail EF

Table 1 - Line-Haul Emission Factors (g/bhp-hr)							
	PM10 (g/bhp-hr)						
Uncontrolled	0.32						
tier 0	0.32						
tier 0+	0.2						
tier 1	0.32						
tier 1+	0.2						
tier2	0.18						
tier 2+ & tier 3	0.08						
tier 4	0.015						

CARB Roseville Appendix B

Table B-1: Diesel PM Emission Factors for Locomotives

B - 3

Model Number	Engine Type	Units	Idle	Dynamia Praka*				Throttle	Notches				
Model Number	Engine Type	Units	idle	Dynamic Brake*	1	2	3	4	5	6	7	8	Average EF
Switcher ⁽¹⁾	EMD 12-64E	g/bhp/hr	2.07	0.8	0.32	0.33	0.31	0.24	0.23	0.28	0.25	0.28	0.28
		Fraction of Average	7.39	2.86	1.14	1.18	1.11	0.86	0.82	1.00	0.89	1.00	
GP-60	EMD 16-710G3A	g/bhp/hr	3.18	4.09	0.25	0.31	0.3	0.23	0.21	0.25	0.21	0.23	0.25
		Fraction of Average	12.78	16.44	1.01	1.25	1.21	0.92	0.84	1.01	0.84	0.92	
SD-70	EMD 16-710G3B	g/bhp/hr	1.67	2.41	0.26	0.23	0.24	0.2	0.19	0.21	0.24	0.25	0.23
		Fraction of Average	7.34	10.59	1.14	1.01	1.05	0.88	0.84	0.92	1.05	1.10	
GP-40 ⁽³⁾	EMD 16-645-E3	g/bhp/hr	2.82	1.16	0.34	0.34	0.33	0.25	0.23	0.28	0.24	0.26	0.28
		Fraction of Average	9.94	4.09	1.20	1.20	1.16	0.88	0.81	0.99	0.85	0.92	
GP-50	EMD 16-645F3B	g/bhp/hr	2.89	1.78	0.25	0.3	0.3	0.23	0.21	0.24	0.21	0.24	0.25
		Fraction of Average	11.68	7.19	1.01	1.21	1.21	0.93	0.85	0.97	0.85	0.97	
GP-33 ⁽⁴⁾	EMD 16-645E	g/bhp/hr	2.53	0.88	0.32	0.33	0.32	0.24	0.23	0.28	0.26	0.29	0.28
		Fraction of Average	8.92	3.10	1.13	1.16	1.13	0.85	0.81	0.99	0.92	1.02	
GE Dash 8	GE 7 FDL, 12 or 16 cyclinder	g/bhp/hr	2.48	1.63	0.45	0.32	0.31	0.21	0.16	0.14	0.14	0.15	0.24
		Fraction of Average	10.55	6.94	1.91	1.36	1.32	0.89	0.68	0.60	0.60	0.64	
GE Dash 7	GE 7 FDL, 12 cyclinder	g/bhp/hr	9.12	5.32	0.67	0.67	0.35	0.45	0.24	0.18	0.18	0.18	0.37
	-	Fraction of Average	24.99	14.58	1.84	1.84	0.96	1.23	0.66	0.49	0.49	0.49	
	Overall Average	Fraction of Average	11.70	8.22	1.30	1.28	1.14	0.93	0.79	0.87	0.81	0.88	
Project Estimated	Notch EF	g/bhp/hr	0.18	0.12	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.015

EPA TEIR IV EF

Conservative Parameters From CARB's Roseville Documentation EMD Engine Exhaust Gas Information

Air intake Temp 90 °F Barometer 29.4 In Hg
Table B-8

	SD-90, Engine: 16V265H, Stack Diameter: 36" X 15", 2 Stack.									
	Exhaust	Exhaust	Diameter	Exhaust Velocity	Exhaust	Exhaust Temp				
T/N	Flow (cfm)	(m^3/s)	(m)	(m/s)	Temp (°F)	(°K)	% Load			
8	35511	16.76	0.666	24.05	840	722	100%	125		
7	29605	13.97	0.666	20.05	900	755	83%	109		
6	23710	11.19	0.666	16.06	1054	841	67%	96		
5	19049	8.99	0.666	12.90	1050	839	54%	84		
4	12705	6.00	0.666	8.61	1050	839	36%	73		
3	9523	4.49	0.666	6.45	840	722	27%	64		
2	5337	2.52	0.666	3.62	760	677	15%	56		
1	3538	1.67	0.666	2.40	670	627	10%	49		
ldle	2441	1.15	0.666	1.65	530	550	7%			

Length of time trains would idle	1 minute
Number of train loadings per day	7 round trips/14 one way trips
Types of train	Tier IV Siemens Chargers using renewable diesel fuel pulling 5-10 coaches

Train Idling (One Way)							
% Load	7%						
BHP/hr	4400						
Idle Time/hr	0.0167						
g/BHP/hr	0.18						
g/ldle	0.88						
# of idling / day	7.00						
lbs/day	0.01						
lbs/year	4.29						

Train Trave	el .		
North Bound Distance (mi)	0.85		
Load	17%		
BHP/hr	4400		
g/BHP/hr	0.02		
Speed (Average MPH [50-0])	25		
g/Trip	0.50		
# of trips / day	7.00		
lbs/day	0.01		
lbs/year	2.43		
South Bound Distance (mi)	0.83		
Load	17%		
BHP/hr	4400		
g/BHP/hr	0.02		
Speed (Average MPH [50-0])	25		
g/Trip	0.49		
# of trips / day	7.00		
lbs/day	0.01		
lbs/year	2.38		

Using an example based on work by Carlson (10), the distance required for a train to decelerate from 50 mph to medium speed (30 mph) is 3,333 feet, and the distance from 30 mph to 0 mph is 1,614 feet, whereas the safe Page 6 Lai & Barkan 04-4307 6 stopping distance from 50 mph to 0 mph for the same train is **4,099 feet**.

			Concentr	ation (ug)				Concentra	ition (ug/g)	
X Y		PE00G001V	PE00G002V	PE00G003	PE00G004	Total	PE00G001V	PE00G002V	PE00G003	PE00G004
634651.7	4254310.84	0.000572098	0.000824538	0.000402968	0.001228132	0.003027736	16.34336	24.1017	6.53612	19.92025
634648.2	4254335.09	0.000596499	0.000801163	0.00042248	0.00118035	0.003000491	17.04042	23.41843	6.85261	19.14522
634644.6 634641.1	4254359.34 4254383.59	0.000615278 0.000629496	0.000774168 0.000742719	0.000450339 0.000450656	0.001068893 0.00101848	0.002908678 0.002841351	17.57688 17.98307	22.62937 21.71008	7.30448 7.30962	17.3374 16.5197
634637.6	4254365.39	0.000629496	0.000742719	0.000430636	0.00101848	0.002841331	18.28499	20.64128	7.30962 7.26154	16.12724
634634.1	4254432.09	0.000649257	0.000664834	0.000252189	0.001175575	0.002741855	18.54757	19.43347	4.0905	19.06778
634637.5	4254308.79	0.000436055	0.000681296	0.000347784	0.001174518	0.002639653	12.45696	19.91466	5.64104	19.05063
634634	4254333.04	0.000459844	0.000663832	0.000368731	0.001122269	0.002614677	13.13655	19.40419	5.9808	18.20316
634630.5	4254357.29	0.000479438	0.000643757	0.000410789	0.001040917	0.002574901	13.69628	18.81738	6.66298	16.88363
634627 634623.5	4254381.54 4254405.79	0.00049537 0.000508633	0.000620723 0.000594822	0.000490524 0.000492551	0.000967223 0.001064277	0.002573839 0.002660283	14.15142 14.53033	18.14407 17.38698	7.95627 7.98915	15.68832 17.26252
634619.9	4254430.04	0.00051959	0.000557622	0.000152531	0.001159136	0.002497158	14.84333	16.5354	4.09948	18.80114
634623.4	4254306.73	0.000344237	0.000578849	0.000301267	0.00104841	0.002272763	9.83394	16.92009	4.88653	17.00517
634619.9	4254330.98	0.000365536	0.000565395	0.000336545	0.000984348	0.002251824	10.4424	16.52681	5.45875	15.96608
634616.4	4254355.23	0.000384113	0.00055005	0.000393724	0.000955506	0.002283393	10.97312	16.07827	6.38618	15.49826
634612.8 634609.3	4254379.48 4254403.73	0.000399868 0.000413914	0.000532529 0.000513425	0.000449401 0.000420978	0.000976216 0.001194983	0.002358014 0.0025433	11.42319 11.82444	15.56612 15.0077	7.28927 6.82824	15.83418 19.38257
634605.8	4254427.98	0.000415514	0.000313423	0.000420376	0.001134363	0.002182884	12.15883	14.38206	3.87939	16.6428
634609.3	4254304.68	0.000280211	0.000501966	0.000272517	0.00094416	0.001998854	8.00489	14.67274	4.42022	15.31423
634605.7	4254328.93	0.000298422	0.000491326	0.000323905	0.000919445	0.002033098	8.52513	14.36173	5.25373	14.91336
634602.2	4254353.18	0.000314993	0.000479287	0.000388983	0.000926399	0.002109662	8.99854	14.00984	6.30928	15.02615
634598.7 634595.2	4254377.43 4254401.68	0.000329727 0.000343106	0.000465728 0.000450962	0.000403378 0.00036566	0.000979103 0.001124205	0.002177936 0.002283933	9.41944 9.80164	13.6135 13.18186	6.54278 5.93099	15.881 18.23456
634591.7	4254425.93	0.000343100	0.000430302	0.00030300	0.0001124203	0.002283933	10.1389	12.71032	3.67114	15.19307
634595.1	4254302.63	0.000234255	0.000442264	0.000264443	0.000866854	0.001807816	6.69205	12.92761	4.28926	14.06034
634591.6	4254326.88	0.000249497	0.000433594	0.000318888	0.000931168	0.001933147	7.12749	12.67418	5.17235	15.10351
634588.1	4254351.13	0.000263729	0.000423875	0.000376428	0.001088036	0.002152067	7.53405	12.3901	6.10564	17.64789
634584.6	4254375.38	0.000276944	0.000413179	0.00037971	0.001097922	0.002167755	7.91158	12.07744	6.15888	17.80825
634581 634577.5	4254399.63 4254423.88	0.00028918 0.000300349	0.000401524 0.000388963	0.000316049 0.000215538	0.000988496 0.000875736	0.00199525 0.001780585	8.26113 8.58018	11.73678 11.3696	5.1263 3.49601	16.03336 14.2044
634581	4254300.58	0.000199965	0.0003943	0.000278398	0.000894137	0.001766801	5.71249	11.52561	4.51561	14.50287
634577.5	4254324.83	0.000212805	0.000387193	0.000292516	0.000879168	0.001771681	6.07928	11.31786	4.7446	14.26006
634573.9	4254349.08	0.000224993	0.000379301	0.000353745	0.001007524	0.001965563	6.42746	11.08718	5.73773	16.342
634570.4	4254373.33	0.000236507	0.00037066	0.000334998	0.000957544	0.00189971	6.7564	10.8346	5.43366	15.53132
634566.9 634563.4	4254397.58 4254421.83	0.000247349 0.000257489	0.000361274 0.000351252	0.0002848 0.000204964	0.000854634 0.000812612	0.001748057 0.001626316	7.06613 7.35579	10.56025 10.26728	4.61944 3.3245	13.86212 13.18053
634566.9	4254298.53	0.000237403	0.000351252	0.00027171	0.000891881	0.001692137	4.95943	10.37515	4.40712	14.46627
634563.3	4254322.78	0.000184523	0.000349027	0.000303087	0.000844473	0.00168111	5.27133	10.20226	4.91605	13.69732
634559.8	4254347.03	0.000194974	0.000342539	0.000311318	0.000855953	0.001704784	5.56989	10.01261	5.04957	13.88352
634556.3	4254371.28	0.000204929	0.000335453	0.00030127	0.000797775	0.001639426	5.85428	9.80549	4.88658	12.93987
634552.8 634549.3	4254395.53 4254419.78	0.00021444 0.000223484	0.000327814 0.000319694	0.000261993 0.000196218	0.000766134 0.000751388	0.001570381 0.001490784	6.12599 6.38436	9.58219 9.34483	4.24952 3.18264	12.42666 12.18748
634517.4	4254291.34	0.000223484	0.000319094	0.000190218	0.000731388	0.001490784	3.31499	7.57222	3.44175	9.38609
634513.9	4254315.59	0.000122734	0.000255804	0.000224875	0.000582215	0.001185628	3.50619	7.47729	3.64747	9.4435
634510.3	4254339.84	0.000129289	0.00025231	0.000232679	0.000580748	0.001195025	3.69344	7.37517	3.77404	9.4197
634506.8	4254364.09	0.000135647	0.000248557	0.000229067	0.000581304	0.001194575	3.87509	7.26546	3.71545	9.42872
634503.3 634499.8	4254388.34 4254412.59	0.000141791 0.000147716	0.00024457 0.000240334	0.00021047 0.000175008	0.000576748 0.000567732	0.001173579 0.00113079	4.05059 4.21987	7.14891 7.02509	3.41382 2.83862	9.35483 9.20859
634464.4	4254308.41	8.95672E-05	0.000240334	0.000173008	0.000367732	0.00113079	2.5587	5.77542	3.01808	7.22714
634460.8	4254332.66	9.39421E-05	0.000195673	0.000191258	0.000444904	0.000925777	2.68368	5.71964	3.10219	7.21633
634457.3	4254356.91	9.83016E-05	0.000193606	0.000189105	0.000442141	0.000923153	2.80822	5.65922	3.06727	7.1715
634453.8	4254381.16	0.000102591	0.000191406	0.000178928	0.000438641	0.000911566	2.93076	5.59491	2.90221	7.11473
634450.3 634421.9	4254405.41 4254252.73	0.000106776 6.37342E-05	0.000189056 0.000159127	0.000160513 0.000139066	0.000434086 0.000332122	0.000890432 0.000694049	3.05032 1.82072	5.52621 4.65137	2.60352 2.25565	7.04086 5.387
634418.4	4254276.98	6.65132E-05	0.000159127	0.000139000	0.000332122	0.000094049	1.90011	4.62873	2.23303	5.53205
634414.9	4254301.23	6.93998E-05	0.00015747	0.000155149	0.000345641	0.000727659	1.98257	4.60293	2.51651	5.60628
634411.4	4254325.48	7.23755E-05	0.000156475	0.000159126	0.000347299	0.000735276	2.06758	4.57386	2.58102	5.63318
634407.8	4254349.73	7.5415E-05	0.000155384	0.000159013	0.000346571	0.000736383	2.15441	4.54195	2.57919	5.62136
634404.3	4254373.98	7.848E-05	0.000154195	0.000154353	0.000344228	0.000731256	2.24197	4.50722	2.5036	5.58336
634400.8 634372.4	4254398.23 4254245.55	8.1536E-05 5.20825E-05	0.000152895 0.00012867	0.000144917 0.000117348	0.000340983 0.000257639	0.000720332 0.00055574	2.32927 1.48786	4.46922 3.7611	2.35055 1.90338	5.53073 4.1789
634368.9	4254269.8	5.40165E-05	0.000128411	0.000117346	0.000257633	0.00057269	1.54311	3.75352	2.01736	4.31269
634365.4	4254294.05	5.60247E-05	0.000128056	0.000129666	0.000270517	0.000584263	1.60048	3.74316	2.10317	4.38777
634361.9	4254318.3	5.81005E-05	0.000127609	0.000132361	0.00027286	0.00059093	1.65978	3.73008	2.14689	4.42577
634358.4	4254342.55	6.02537E-05	0.00012711	0.000133251	0.000274226	0.000594841	1.72129	3.71549	2.16132	4.44794
634354.8 634351.3	4254366.8 4254391.05	6.2459E-05 6.47063E-05	0.000126534 0.000125885	0.000131534 0.000127522	0.000273606 0.000272178	0.000594133 0.000590292	1.78429 1.84849	3.69866 3.6797	2.13348 2.0684	4.43788 4.41472
634273.5	4254231.18	3.74052E-05	8.77708E-05	8.37E-05	0.000272178	0.000350252	1.06857	2.56559	1.35761	2.5866
634270	4254255.43	3.8461E-05	8.79963E-05	8.75711E-05	0.000164814	0.000378842	1.09873	2.57218	1.4204	2.67327
634266.4	4254279.68	3.95587E-05	8.81814E-05	9.10711E-05	0.000169328	0.000388139	1.13009	2.57759	1.47717	2.74649
634262.9	4254303.93	4.06925E-05	8.83137E-05	9.35212E-05	0.000172379	0.000394907	1.16248	2.58146	1.51691	2.79598
634259.4 634255.9	4254328.18	4.18656E-05	8.84013E-05	9.52672E-05	0.00017452	0.000400054	1.19599	2.58402	1.54523	2.8307
634255.9 634252.4	4254352.43 4254376.68	4.30781E-05 4.43198E-05	8.84438E-05 8.84212E-05	9.62475E-05 9.5893E-05	0.000176334 0.000176954	0.000404103 0.000405588	1.23063 1.2661	2.58526 2.5846	1.56113 1.55538	2.86013 2.87019
634174.5	4254216.82	4.45198E-05 2.85745E-05	6.2772E-05	5.95359E-05	0.000176934	0.000403388	0.8163	1.83486	0.96567	1.65798
634171	4254241.07	2.92207E-05	6.3097E-05	6.19342E-05	0.000105871	0.000260123	0.83476	1.84436	1.00457	1.71723
634167.5	4254265.32	2.98865E-05	6.33998E-05	6.41352E-05	0.000108905	0.000266327	0.85378	1.85321	1.04027	1.76644
634164	4254289.57	3.05723E-05	6.36775E-05	6.59786E-05	0.00011137	0.000271598	0.87337	1.86133	1.07017	1.80641
634160.4 634156.9	4254313.82 4254338.07	3.12818E-05 3.20131E-05	6.39382E-05 6.41733E-05	6.78645E-05 6.94465E-05	0.000113782 0.000115794	0.000276867 0.000281427	0.89364 0.91453	1.86895 1.87582	1.10076 1.12642	1.84554 1.87818
634158.9	4254338.07	3.27629E-05	6.4373E-05	7.05723E-05	0.000113794	0.000281427	0.93595	1.88166	1.12642	1.90281
634075.6	4254202.45	2.27214E-05	4.70556E-05	4.37597E-05	6.96691E-05	0.000183206	0.64909	1.37546	0.70978	1.13003
634072	4254226.7	2.31467E-05	4.73395E-05	4.52609E-05	7.1957E-05	0.000187704	0.66124	1.38376	0.73413	1.16714

C240C9 F	425 4250 05	2 250255 05	4 761225 05	4 670055 05	7 407015 05	0.000103074	0.67272	1 20176	0.75007	1 20156
634068.5	4254250.95	2.35835E-05	4.76132E-05	4.67985E-05	7.40791E-05	0.000192074	0.67372	1.39176	0.75907	1.20156
634065	4254275.2	2.40323E-05	4.78763E-05	4.83466E-05	7.60878E-05	0.000196343	0.68654	1.39945	0.78418	1.23414
634061.5	4254299.45	2.4494E-05	4.81281E-05	4.98836E-05	7.79823E-05	0.000200488	0.69973	1.40681	0.80911	1.26487
634058	4254323.7	2.4968E-05	4.83662E-05	5.13109E-05	7.97135E-05	0.000204359	0.71327	1.41377	0.83226	1.29295
634054.4	4254347.95	2.54535E-05	4.85868E-05	5.26105E-05	8.12468E-05	0.000207898	0.72714	1.42022	0.85334	1.31782
633976.6	4254188.09	1.85953E-05	3.67017E-05	3.40858E-05	5.1248E-05	0.000140631	0.53122	1.07281	0.55287	0.83124
633973.1	4254212.34	1.88918E-05	3.69514E-05	3.52048E-05	5.28892E-05	0.000143937	0.53969	1.08011	0.57102	0.85786
633969.6	4254236.59	1.91957E-05	3.71909E-05	3.63632E-05	5.44453E-05	0.000147195	0.54837	1.08711	0.58981	0.8831
633966	4254260.84	1.95062E-05	3.74194E-05	3.7513E-05	5.58744E-05	0.000150313	0.55724	1.09379	0.60846	0.90628
633962.5	4254285.09	1.98247E-05	3.76387E-05	3.87048E-05	5.72844E-05	0.000153453	0.56634	1.1002	0.62779	0.92915
633959	4254309.34	2.01516E-05	3.78477E-05	3.9907E-05	5.86765E-05	0.000156583	0.57568	1.10631	0.64729	0.95173
633955.5	4254333.59	2.04859E-05	3.80431E-05	4.10297E-05	5.99243E-05	0.000159483	0.58523	1.11202	0.6655	0.97197
634633.3	4254457.87	0.000688715	0.000634168	0.000115624	0.000924583	0.002363089	19.67479	18.53707	1.87541	14.99669
	4254481.99	0.00072647	0.000593223						2.6827	
634632.6				0.000165395	0.000858086	0.002343174	20.75335	17.34025		13.91811
634631.9	4254506.12	0.000764609	0.000544655	0.000246432	0.000797034	0.002352731	21.84288	15.92058	3.99712	12.92786
634631.2	4254530.24	0.000803637	0.000493186	0.000319463	0.000739277	0.002355563	22.95781	14.4161	5.18168	11.99104
634630.6	4254554.37	0.00084255	0.000443265	0.000379167	0.000688722	0.002353705	24.06947	12.95689	6.15008	11.17104
634629.9	4254578.49	0.000883228	0.000398553	0.000431495	0.000641238	0.002354515	25.23153	11.64992	6.99883	10.40086
634629.2	4254602.62	0.000925436	0.000359753	0.000479195	0.000601413	0.002365798	26.4373	10.51579	7.77252	9.7549
634628.5	4254626.75	0.000969213	0.000326572	0.000521562	0.000564407	0.002381754	27.6879	9.54588	8.45972	9.15465
634627.9	4254650.87	0.001015146	0.000298268	0.000557455	0.000533532	0.002404401	29.00007	8.71854	9.0419	8.65386
634627.2	4254675	0.001063111	0.000273992	0.000585778	0.00050405	0.002426931	30.3703	8.00894	9.50129	8.17567
634626.5	4254699.12	0.001111719	0.00025296	0.00060091	0.000475612	0.002441201	31.75891	7.39417	9.74673	7.7144
634625.8	4254723.25	0.001164474	0.000234748	0.000612023	0.000452309	0.002463554	33.26599	6.86182	9.92698	7.33643
634619	4254457.47	0.000553291	0.000544237	0.000121722	0.000432303	0.002403334	15.80609	15.90835	1.97432	14.92228
634618.3	4254481.59	0.000583603	0.000517939	0.000141207	0.000857122	0.00209987	16.67201	15.13964	2.29037	13.90248
634617.6	4254505.72	0.000613901	0.000486318	0.000204806	0.000797276	0.002102301	17.53755	14.21535	3.32194	12.93179
634617	4254529.84	0.000644309	0.000451512	0.000277913	0.000745504	0.002119237	18.40622	13.19794	4.50773	12.09204
634616.3	4254553.97	0.000673415	0.000414942	0.000345378	0.000694171	0.002127907	19.23771	12.129	5.60202	11.25943
634615.6	4254578.09	0.000703649	0.000379588	0.000404372	0.000649742	0.002137351	20.10143	11.09556	6.5589	10.53878
634614.9	4254602.22	0.000734515	0.000346847	0.000455854	0.000608389	0.002145605	20.98319	10.13852	7.39393	9.86804
634614.2	4254626.35	0.000765884	0.000317469	0.000500251	0.000571346	0.002154949	21.8793	9.2798	8.11405	9.2672
634613.6	4254650.47	0.000798105	0.000291574	0.000537665	0.000537204	0.002164549	22.79979	8.52288	8.7209	8.71343
634612.9	4254674.6	0.000831153	0.000268868	0.000567686	0.0005063	0.002174008	23.74388	7.85915	9.20785	8.21217
634612.2	4254698.72	0.000863976	0.000248894	0.000584015	0.000478067	0.002174951	24.68155	7.27531	9.47269	7.75422
634611.5	4254722.85	0.000898637	0.000248854	0.000596466	0.000478007	0.002174531	25.67172	6.76412	9.67465	7.73422
634604.7	4254457.07	0.000455554	0.000476072	0.000122593	0.000901425	0.001955643	13.01398	13.91584	1.98845	14.62107
634604	4254481.19	0.000481077	0.00045818	0.000124874	0.000848305	0.001912436	13.74312	13.39286	2.02545	13.75947
634603.3	4254505.32	0.000506161	0.000436162	0.000171922	0.000795336	0.001909581	14.45971	12.74926	2.78856	12.90032
634602.7	4254529.44	0.000531011	0.000411655	0.000236777	0.000744001	0.001923445	15.16961	12.03291	3.84051	12.06767
634602	4254553.57	0.00055489	0.00038527	0.000307976	0.000695483	0.001943618	15.85177	11.26165	4.99535	11.2807
634601.3	4254577.69	0.000579046	0.000358304	0.000376224	0.000652229	0.001965803	16.54184	10.47342	6.10234	10.57913
634600.6	4254601.82	0.000603381	0.000331816	0.000435268	0.000610492	0.001980957	17.23702	9.69918	7.06003	9.90215
634600	4254625.95	0.000627905	0.000306795	0.000484308	0.000575473	0.001994482	17.93761	8.96779	7.85546	9.33415
634599.3	4254650.07	0.000652895	0.000283841	0.000525595	0.000542788	0.002005119	18.6515	8.29684	8.52513	8.804
634598.6	4254674.2	0.000677829	0.000263066	0.000556221	0.000510721	0.002007837	19.36382	7.68957	9.02188	8.28387
634597.9	4254698.32	0.0007702397	0.000244421	0.000572434	0.000310721	0.002007037	20.06564	7.00557	9.28485	7.80372
634597.3	4254722.45	0.000727463	0.000227803	0.000583149	0.000454708	0.001993123	20.78172	6.6588	9.45865	7.37535
634590.4	4254456.67	0.000382039	0.000422524	0.000118362	0.000873777	0.001796701	10.91385	12.35061	1.91982	14.17262
634589.7	4254480.79	0.000404006	0.000409812	0.000114166	0.00082669	0.001754673	11.5414	11.97903	1.85176	13.40887
634589.1	4254504.92	0.000425419	0.000393838	0.000149617	0.000782178	0.001751051	12.1531	11.51209	2.42678	12.6869
634588.4	4254529.04	0.000446428	0.000375792	0.000203686	0.000736863	0.001762769	12.75329	10.9846	3.30378	11.95188
634587.7	4254553.17	0.000466869	0.000356331	0.000270195	0.000690632	0.001784027	13.33722	10.41576	4.38255	11.20202
634587	4254577.29	0.000487103	0.000335944	0.000341502	0.000649734	0.001814283	13.91527	9.81983	5.53914	10.53866
634586.4	4254601.42	0.000507245	0.000315101	0.000407946	0.000611456	0.001841747	14.49066	9.21057	6.61686	9.91779
634585.7	4254625.55	0.000527452	0.000294498	0.000465686	0.000575323	0.001862959	15.06794	8.60835	7.5534	9.33171
634585	4254649.67	0.000547646	0.000274766	0.000509698	0.000543762	0.001875871	15.64482	8.03155	8.26728	8.81979
634584.3	4254673.8	0.00056759	0.000256275	0.000541373	0.000514083	0.00187932	16.21456	7.49106	8.78104	8.3384
634583.7	4254697.92	0.000587439	0.000239268	0.000541373	0.000314083	0.001873798	16.7816	6.99394	9.13167	7.8521
634583	4254722.05	0.000606895	0.000223755	0.000570961	0.000455044	0.001856654	17.3374	6.54047	9.26096	7.38079
634576.1	4254456.27	0.000325055	0.000379202	0.000115847	0.000833697	0.001653801	9.28596	11.08429	1.87904	13.52253
634575.5	4254480.39		0.000369893	0.00010764	0.000796935	0.001618626	9.83167	10.81219	1.74592	12.92625
634574.8	4254504.52	0.000362795	0.000358014	0.000135593	0.000759719	0.001616122	10.36411	10.46495	2.19932	12.32261
634574.1	4254528.64	0.000381041	0.00034433	0.00018088	0.000719804	0.001626055	10.88535	10.06497	2.93386	11.67519
634573.4	4254552.77	0.000398828	0.000329476	0.000238765	0.000680484	0.001647553	11.39347	9.63078	3.87276	11.03742
634572.8	4254576.89	0.000416271	0.000313826	0.000304909	0.000640551	0.001675557	11.89178	9.17331	4.94561	10.38971
634572.1	4254601.02	0.000433487	0.000297551	0.000371366	0.000604868	0.001707272	12.3836	8.69757	6.02354	9.81093
634571.4	4254625.15	0.000450458	0.000280931	0.000430343	0.000570738	0.00173247	12.86841	8.21178	6.98015	9.25734
634570.7	4254649.27	0.000467302	0.000264422	0.000478152	0.000539101	0.001748977	13.34961	7.72919	7.75561	8.74419
634570.1	4254673.4	0.00048394	0.000248406	0.000508717	0.000506991	0.001748054	13.8249	7.26106	8.25137	8.22337
634569.4	4254697.52	0.000500572	0.000233274	0.000539968	0.000300331	0.001740034	14.30004	6.81874	8.75826	7.81183
634568.7	4254721.65	0.000500372	0.000233274	0.000556288	0.000451518	0.001733433	14.77038	6.40537	9.02296	7.81163
634561.9	4254455.87	0.000279807	0.000343311	0.000115251	0.000782277	0.001520645	7.99335	10.03516	1.86936	12.6885
634561.2	4254479.99	0.000296467	0.000336343	0.000105041	0.000754897	0.001492748	8.46929	9.83149	1.70376	12.24439
634560.5	4254504.12	0.000312823	0.000327352	0.00012749	0.000726185	0.00149385	8.93654	9.56869	2.06788	11.77869
634559.8	4254528.24	0.000328872	0.000316777	0.000165428	0.000692811	0.001503888	9.39501	9.25958	2.68324	11.23736
634559.2	4254552.37	0.000344556	0.000305154	0.000215531	0.00065975	0.00152499	9.84307	8.91982	3.4959	10.70111
634558.5	4254576.49	0.000359895	0.000292862	0.000272874	0.000626155	0.001551785	10.28126	8.56051	4.426	10.1562
634557.8	4254600.62	0.000374969	0.000280032	0.000333424	0.000593362	0.001581787	10.71188	8.1855	5.40812	9.62431
634557.1	4254624.75	0.000389737	0.000266732	0.000390351	0.000560045	0.001606865	11.13378	7.79673	6.33147	9.08391
634556.5	4254648.87	0.000404262	0.000253164	0.000434305	0.000528432	0.001620164	11.54872	7.40012	7.04441	8.57115
634555.8	4254673	0.000418266	0.000239532	0.000464538	0.000497533	0.00161987	11.94877	7.00166	7.53479	8.06997
634555.1	4254697.12	0.000418200	0.000239332	0.000404338	0.000497333	0.00161387	12.36305	6.61876	8.14194	7.65995
634554.4	4254721.25	0.00044689	0.00021382	0.000528342	0.000449808	0.00163886	12.76648	6.25008	8.56968	7.29587
634547.6	4254455.47	0.000243576	0.000313123	0.00011627	0.000727889	0.001400857	6.95832	9.15277	1.88589	11.80632
634546.9	4254479.59	0.000258096	0.000307809	0.000104865	0.000708137	0.001378907	7.37313	8.99743	1.70091	11.48595
634546.2	4254503.72	0.000272456	0.000300885	0.000122147	0.000685324	0.001380812	7.78336	8.79503	1.98122	11.11593

634545.6	4254527.84	0.000286616	0.000292597	0.000154389	0.000658233	0.001391835	8.18787	8.55276	2.50419	10.67651
634544.9	4254551.97	0.000300599	0.000283379	0.000198539	0.000632472	0.001331033	8.58734	8.28332	3.2203	10.25867
634544.2	4254576.09	0.000314246	0.000273514	0.000247527	0.000604114	0.001439402	8.97718	7.99498	4.01488	9.79871
634543.5	4254600.22	0.00032764	0.000263213	0.000299752	0.000575233	0.001465839	9.35981	7.69387	4.86197	9.33026
634542.8	4254624.35	0.000340714	0.000252492	0.000349965	0.000546209	0.00148938	9.7333	7.38049	5.67642	8.85949
634542.2	4254648.47	0.000353467	0.000241402	0.000392862	0.000517095	0.001504826	10.09762	7.05632	6.3722	8.38726
		0.000355467		0.000332862		0.001504020				7.89649
634541.5	4254672.6		0.000230031		0.000486838		10.44866	6.72392	6.91872	
634540.8	4254696.72	0.000378455	0.000218861	0.000464193	0.000463895	0.001525404	10.81146	6.39743	7.52919	7.52436
634540.1	4254720.85	0.000390845	0.000207836	0.000492993	0.000441724	0.001533399	11.16542	6.07517	7.99633	7.16475
634498.3	4254429.94	0.000152918	0.000238351	0.000148367	0.000563389	0.001103026	4.36847	6.96713	2.40651	9.13815
634497.6	4254454.07	0.000161675	0.000236756	0.000121226	0.000559694	0.001079351	4.61863	6.92051	1.96628	9.07821
634496.9	4254478.19	0.00017055	0.000234456	0.000112729	0.000552725	0.00107046	4.87217	6.85328	1.82846	8.96517
634496.2	4254502.32	0.000179581	0.000231439	0.00012214	0.000542841	0.001076002	5.13017	6.76509	1.98111	8.80486
634495.6	4254526.44	0.000188797	0.000227751	0.000143274	0.000533459	0.001093281	5.39345	6.65729	2.32389	8.65268
634494.9	4254550.57	0.000198158	0.000223432	0.000172354	0.000522262	0.001116206	5.66087	6.53103	2.79557	8.47107
634494.2	4254574.69	0.000207426	0.000218479	0.000203915	0.000508048	0.001137867	5.92561	6.38625	3.30749	8.24051
634493.5	4254598.82	0.00021669	0.000213158	0.000238447	0.000494078	0.001162373	6.19027	6.23073	3.8676	8.01392
634492.9	4254622.95	0.00022582	0.000207561	0.00027292	0.000477985	0.001184286	6.4511	6.06713	4.42675	7.75289
634492.2	4254647.07	0.000234718	0.000201724	0.000302673	0.000459441	0.001198555	6.70527	5.8965	4.90934	7.45211
634491.5	4254671.2	0.000243401	0.000195692	0.000329734	0.000440795	0.001209621	6.95333	5.72018	5.34827	7.14967
634490.8	4254695.32	0.000252137	0.000189589	0.000358761	0.000422947	0.001223434	7.20289	5.54179	5.81909	6.86019
634490.2	4254719.45	0.000260684	0.000183282	0.000383446	0.000406123	0.001233534	7.44705	5.35744	6.21948	6.58729
634448.3	4254428.54	0.000111495	0.000183749	0.000140774	0.00043204	0.000872059	3.18513	5.48802	2.28335	7.00767
634447.6	4254452.67	0.000117292	0.000187214	0.000127147	0.000432567	0.000864221	3.35074	5.47237	2.06232	7.01622
634446.9	4254476.79	0.000123153	0.000186311	0.000123552	0.000431379	0.000864396	3.51817	5.44598	2.00401	6.99695
634446.3	4254500.92	0.000129096	0.000185008	0.000130547	0.000429354	0.000874006	3.68794	5.4079	2.11746	6.96411
634445.6	4254525.04	0.000135157	0.000183307	0.000145433	0.000425785	0.000889681	3.86107	5.35816	2.35892	6.90621
634444.9	4254549.17	0.000141268	0.000181127	0.000163566	0.000421317	0.000907279	4.03566	5.29444	2.65304	6.83375
634444.2	4254573.29	0.000147489	0.000178558	0.000184647	0.000414873	0.000925567	4.21337	5.21936	2.99496	6.72922
634443.6	4254597.42	0.000153804	0.000175643	0.000207251	0.000407968	0.000944666	4.39377	5.13413	3.3616	6.61723
634442.9	4254621.55	0.000160162	0.00017244	0.000230518	0.000399381	0.000962502	4.57541	5.04053	3.739	6.47794
634442.2	4254645.67	0.000166561	0.000169057	0.000253956	0.000390071	0.000979644	4.75821	4.94162	4.11915	6.32693
634441.5	4254669.8	0.000172897	0.000165504	0.000275012	0.000379281	0.000992694	4.93921	4.83778	4.46068	6.15192
634440.9	4254693.92	0.000179265	0.000161899	0.000296249	0.000368968	0.001006381	5.12113	4.73241	4.80515	5.98464
634440.2	4254718.05	0.000185594	0.000158214	0.000315841	0.000358499	0.001018147	5.30193	4.62468	5.12292	5.81484
634399.6	4254412.68	8.36783E-05	0.000152581	0.000138502	0.000340043	0.000714805	2.39047	4.46003	2.2465	5.51549
634398.3	4254427.14	8.58178E-05	0.000152194	0.000132637	0.000338963	0.000709612	2.45159	4.44872	2.15137	5.49797
634397.6	4254451.27	8.99851E-05	0.000152228	0.00012722	0.000339778	0.000709212	2.57064	4.4497	2.06351	5.51119
634397	4254475.39	9.41833E-05	0.000152022	0.0001269	0.000340059	0.000713164	2.69057	4.44369	2.05831	5.51574
634396.3	4254499.52	9.83909E-05	0.000151547	0.000132034	0.000339445	0.000721417	2.81077	4.4298	2.14158	5.50579
634395.6	4254523.64	0.000102642	0.000150828	0.00014305	0.000338587	0.000735107	2.93222	4.40879	2.32026	5.49187
634394.9	4254547.77	0.000106935	0.000149836	0.000157089	0.0003375	0.000751361	3.05485	4.3798	2.54798	5.47424
634394.3	4254571.89	0.00011124	0.000148537	0.000171557	0.000335021	0.000766354	3.17784	4.34182	2.78264	5.43402
634393.6	4254596.02	0.000115603	0.000146972	0.000186549	0.00033139	0.000780514	3.30249	4.29608	3.02581	5.37513
634392.9	4254620.15	0.000120039	0.000145174	0.000202257	0.00032777	0.000795239	3.42919	4.24351	3.2806	5.31641
634392.2	4254644.27	0.000124531	0.00014317	0.000217642	0.000323899	0.000809241	3.55752	4.18493	3.53014	5.25362
634391.6	4254668.4	0.000129064	0.000140996	0.000232493	0.000318482	0.000821034	3.68701	4.12139	3.77102	5.16576
634390.9	4254692.52	0.000133661	0.000138729	0.000247734	0.000313128	0.000833252	3.81836	4.05513	4.01823	5.07892
634390.2	4254716.65	0.000138282	0.000136379	0.000261946	0.000307224	0.000843832	3.95037	3.98644	4.24876	4.98316
634349.8	4254408.39	6.66022E-05	0.000125835	0.000124333	0.000271695	0.000588465	1.90265	3.67823	2.01667	4.40688
634348.3	4254425.74	6.85148E-05	0.000125711	0.000121155	0.000270871	0.000586252	1.95729	3.67461	1.96513	4.39352
634347.7	4254449.87	7.1611E-05	0.000126051	0.0001196	0.000270912	0.000588174	2.04574	3.68455	1.93991	4.39418
634347	4254473.99	7.47527E-05	0.00012623	0.000121143	0.000271027	0.000593152	2.13549	3.68977	1.96493	4.39604
634346.3	4254498.12	7.79196E-05	0.000126235	0.000126257	0.00027107	0.000601482	2.22596	3.68993	2.04788	4.39675
634345.6	4254522.24	8.1103E-05	0.000126064	0.000134505	0.000271136	0.000612808	2.3169	3.68491	2.18166	4.39782
634345	4254546.37	8.42832E-05	0.000125688	0.000143874	0.000270541	0.000624386	2.40775	3.67392	2.33363	4.38817
634344.3	4254570.49	8.74732E-05	0.000125124	0.000154831	0.000269566	0.000636994	2.49888	3.65743	2.51135	4.37235
634343.6	4254594.62	9.06905E-05	0.00012438	0.000166631	0.000268839	0.00065054	2.59079	3.6357	2.70274	4.36055
634342.9	4254618.75	9.39204E-05	0.000123441	0.000178227	0.000267368	0.000662956	2.68306	3.60825	2.89083	4.3367
634342.3	4254642.87	9.71762E-05	0.000122324	0.000178227	0.000265718	0.000674482	2.77607	3.5756	3.06985	4.30993
634341.6	4254667	0.000100457	0.000121043	0.000199568	0.000263299	0.000684367	2.86979	3.53815	3.23698	4.2707
634340.9	4254691.12	0.000103785	0.000119642	0.00020988	0.000261062	0.00069437	2.96488	3.49721	3.40425	4.23441
634340.2	4254715.25	0.000107145	0.000118135	0.000219302	0.000258206	0.000702788	3.06086	3.45314	3.55707	4.18809
634250.4	4254399.81	4.57399E-05	8.87506E-05	9.584E-05	0.000178407	0.000408737	1.30667	2.59423	1.55452	2.89375
634248.4	4254422.94	4.72056E-05	8.90161E-05	9.59805E-05	0.000179221	0.000411423	1.34854	2.60199	1.5568	2.90696
634247.7	4254447.07	4.90017E-05	8.96172E-05	9.74029E-05	0.000173221	0.000416382	1.39985	2.61956	1.57987	2.92544
	4254471.19									
634247		5.08545E-05	9.01334E-05	9.98603E-05	0.000180984	0.000421833	1.45278	2.63465	1.61973	2.93556
634246.3	4254495.32	5.27525E-05	9.05587E-05	0.000103604	0.000181337	0.000428252	1.507	2.64708	1.68045	2.94128
634245.7	4254519.44	5.46851E-05	9.08922E-05	0.000108551	0.000181574	0.000435703	1.56221	2.65683	1.7607	2.94512
634245	4254543.57	5.6645E-05	9.1131E-05	0.000114424	0.000181777	0.000443977	1.6182	2.66381	1.85595	2.94842
634244.3	4254567.69	5.86168E-05	9.12658E-05	0.000120876	0.000181939	0.000452698	1.67453	2.66775	1.96061	2.95105
634243.6	4254591.82	6.05995E-05	9.12986E-05	0.000127619	0.000182178	0.000461695	1.73117	2.66871	2.06997	2.95492
						0.000401093				
634243	4254615.95	6.25811E-05	9.1221E-05	0.000134401	0.000182239		1.78778	2.66644	2.17998	2.95591
634242.3	4254640.07	6.45589E-05	9.10349E-05	0.000141032	0.00018237	0.000478995	1.84428	2.661	2.28753	2.95803
634241.6	4254664.2	6.65349E-05	9.07424E-05	0.000147354	0.000182207	0.000486839	1.90073	2.65245	2.39008	2.95539
634240.9	4254688.32	6.85015E-05	9.03414E-05	0.00015322	0.000181843	0.000493906	1.95691	2.64073	2.48522	2.94949
634240.3	4254712.45	7.04664E-05	8.98437E-05	0.000158539	0.000181309	0.000500159	2.01304	2.62618	2.5715	2.94083
634150.1	4254400.86	3.42051E-05	6.50545E-05	7.25366E-05	0.000131303	0.000300133	0.97715		1.17654	1.95513
								1.90158		
634151.7	4254381.59	3.34721E-05	6.47217E-05	7.14823E-05	0.000118875	0.000288551	0.95621	1.89185	1.15944	1.92814
634148.4	4254420.14	3.49584E-05	6.53631E-05	7.36956E-05	0.000121991	0.000296008	0.99867	1.9106	1.19534	1.97869
634147.7	4254444.26	3.60659E-05	6.59768E-05	7.57049E-05	0.000124196	0.000301944	1.03031	1.92854	1.22793	2.01446
634147.1	4254468.39	3.72169E-05	6.65458E-05	7.80501E-05	0.000126078	0.000307891	1.06319	1.94517	1.26597	2.04498
634146.4	4254492.52	3.84085E-05	6.70709E-05	8.08307E-05	0.000127633	0.000313943	1.09723	1.96052	1.31107	2.0702
634145.7	4254516.64	3.9634E-05	6.75454E-05	8.406E-05	0.000128863	0.000320103	1.13224	1.97439	1.36345	2.09016
634145	4254540.77	4.08924E-05	6.79703E-05	8.76796E-05	0.000129794	0.000326337	1.16819	1.98681	1.42216	2.10526
634144.4	4254564.89	4.21754E-05	6.83384E-05	9.15933E-05	0.000130561	0.000332669	1.20484	1.99757	1.48564	2.1177
634143.7	4254589.02	4.34803E-05	6.86511E-05	9.57191E-05	0.000131155	0.000339006	1.24212	2.00671	1.55256	2.12733

634143	4254613.15	4.4799E-05	6.89012E-05	9.99546E-05	0.000131666	0.000345321	1.27979	2.01402	1.62126	2.13562
634142.3	4254637.27	4.61264E-05	6.90883E-05	0.000104223	0.000132094	0.000351532	1.31771	2.01949	1.6905	2.14256
634141.7	4254661.4	4.74601E-05	6.92128E-05	0.000108444	0.000132457	0.000357574	1.35581	2.02313	1.75896	2.14844
634141	4254685.52	4.87927E-05	6.9269E-05	0.00011252	0.000132755	0.000363337	1.39388	2.02477	1.82507	2.15328
634140.3	4254709.65	5.01246E-05	6.92604E-05	0.000116386	0.000132944	0.000368714	1.43193	2.02452	1.88777	2.15634
634050.4	4254394.21	2.65821E-05	4.9307E-05	5.54108E-05	8.48862E-05	0.000216186	0.75938	1.44127	0.89876	1.37685
634052.4	4254371.08	2.60087E-05	4.89539E-05	5.40001E-05	8.30384E-05	0.000212001	0.743	1.43095	0.87588	1.34688
634048.5	4254417.34	2.71743E-05	4.96443E-05	5.69434E-05	8.66883E-05	0.00022045	0.7763	1.45113	0.92362	1.40608
634047.8	4254441.46	2.79028E-05	5.01547E-05	5.87973E-05	8.88498E-05	0.000225705	0.79711	1.46605	0.95369	1.44114
634047.1		2.86585E-05	5.06453E-05	6.07597E-05	9.093E-05	0.000230994				1.47488
	4254465.59						0.8187	1.48039	0.98552	
634046.4	4254489.72	2.94434E-05	5.11157E-05	6.2867E-05	9.28683E-05	0.000236294	0.84112	1.49414	1.0197	1.50632
634045.7	4254513.84	3.02544E-05	5.15621E-05	6.5137E-05	9.46285E-05	0.000241582	0.86429	1.50719	1.05652	1.53487
634045.1	4254537.97	3.10928E-05	5.19857E-05	6.75711E-05	9.62222E-05	0.000246872	0.88824	1.51957	1.096	1.56072
634044.4	4254562.09	3.19543E-05	5.23808E-05	7.01432E-05	9.76051E-05	0.000252083	0.91285	1.53112	1.13772	1.58315
634043.7	4254586.22	3.28381E-05	5.27472E-05	7.28331E-05	9.88079E-05	0.000257226	0.9381	1.54183	1.18135	1.60266
634043	4254610.35	3.37416E-05	5.30832E-05	7.5621E-05	9.98178E-05	0.000262264	0.96391	1.55165	1.22657	1.61904
634042.4	4254634.47	3.46601E-05	5.33845E-05	7.84737E-05	0.000100661	0.000267179	0.99015	1.56046	1.27284	1.63271
634041.7	4254658.6	3.55927E-05	5.36517E-05	8.13683E-05	0.000101368	0.00027198	1.01679	1.56827	1.31979	1.64418
634041	4254682.72	3.65326E-05	5.38799E-05	8.42647E-05	0.000101938	0.000276615	1.04364	1.57494	1.36677	1.65343
634040.3	4254706.85	3.74798E-05	5.40701E-05	8.71254E-05	0.0001024	0.000281075	1.0707	1.5805	1.41317	1.66092
633950.2	4254394.3	2.15144E-05	3.87933E-05	4.42936E-05	6.37893E-05	0.000168391	0.61461	1.13395	0.71844	1.03466
633952	4254374.06	2.11626E-05	3.85501E-05	4.31746E-05	6.24811E-05	0.000165368	0.60456	1.12684	0.70029	1.01344
633953.7	4254353.82	2.08188E-05	3.82986E-05	4.20704E-05	6.11703E-05	0.000162358	0.59474	1.11949	0.68238	0.99218
633948.5	4254414.54	2.18753E-05	3.9028E-05	4.54379E-05	6.51019E-05	0.000171443	0.62492	1.14081	0.737	1.05595
633947.8	4254438.66	2.23815E-05	3.94214E-05	4.69564E-05	6.6888E-05	0.000175647	0.63938	1.15231	0.76163	1.08492
633947.1	4254462.79	2.29058E-05	3.98029E-05	4.85149E-05	6.86636E-05	0.000179887	0.65436	1.16346	0.78691	1.11372
	4254486.92	2.34484E-05	4.01737E-05	5.00957E-05	7.03652E-05	0.000184083	0.66986	1.1743	0.81255	
633946.5										1.14132
633945.8	4254511.04	2.40088E-05	4.05326E-05	5.17437E-05	7.20249E-05	0.00018831	0.68587	1.18479	0.83928	1.16824
633945.1	4254535.17	2.45896E-05	4.08822E-05	5.34897E-05	7.36352E-05	0.000192597	0.70246	1.19501	0.8676	1.19436
633944.4	4254559.29	2.51882E-05	4.12189E-05	5.53251E-05	7.51765E-05	0.000196909	0.71956	1.20485	0.89737	1.21936
633943.8	4254583.42	2.58039E-05	4.15411E-05	5.71882E-05	7.65588E-05	0.000201092	0.73715	1.21427	0.92759	1.24178
633943.1	4254607.55	2.64368E-05	4.1849E-05	5.91111E-05	7.78165E-05	0.000205213	0.75523	1.22327	0.95878	1.26218
633942.4	4254631.67	2.70837E-05	4.21395E-05	6.10865E-05	7.89373E-05	0.000209247	0.77371	1.23176	0.99082	1.28036
633941.7	4254655.8	2.77442E-05	4.24135E-05	6.31087E-05	7.99207E-05	0.000213187	0.79258	1.23977	1.02362	1.29631
633941.1	4254679.92	2.84149E-05	4.26673E-05	6.51617E-05	8.07666E-05	0.000217011	0.81174	1.24719	1.05692	1.31003
633940.4	4254704.05	2.90951E-05	4.29007E-05	6.7232E-05	8.14823E-05	0.00022071	0.83117	1.25401	1.0905	1.32164
634625.3	4254745.42	0.001219987	0.000220087	0.000618174	0.000430771	0.002489019	34.85186	6.43327	10.02675	6.98708
634624.8	4254767.51	0.001278578	0.000207073	0.000619365	0.000413267	0.002518284	36.52563	6.05286	10.04608	6.70318
634624.3	4254789.61	0.001337374	0.000195327	0.000610287	0.000393831	0.002536819	38.20529	5.70951	9.89883	6.38792
634623.8	4254811.71	0.00140131	0.000184768	0.000599346	0.000377048	0.002562472	40.03177	5.40087	9.72137	6.1157
634611	4254745.09	0.000934244	0.000217191	0.000604589	0.000433497	0.002189521	26.68891	6.34861	9.80641	7.0313
634610.5	4254767.18	0.000971469	0.000204563	0.000608487	0.000413704	0.002198224	27.75233	5.9795	9.86964	6.71026
634610	4254789.28	0.001007288	0.0001931	0.000599111	0.000394352	0.002193851	28.77559	5.64443	9.71756	6.39637
634609.5	4254811.38	0.001045531	0.00018278	0.000589207	0.000376343	0.002193861	29.86809	5.34277	9.55691	6.10426
634596.7	4254744.75	0.000752637	0.000214108	0.000589738	0.000432078	0.001988561	21.50088	6.25849	9.56553	7.00828
634596.2	4254766.85	0.000778598	0.000201889	0.000592887	0.000413264	0.001986639	22.24252	5.90133	9.6166	6.70313
634595.7	4254788.95	0.000803731	0.000190772	0.000584875	0.000393536	0.001972914	22.9605	5.57637	9.48664	6.38314
634595.2	4254811.05	0.000830003	0.000180716	0.000576248	0.000375251	0.001962218	23.71102	5.28244	9.34671	6.08656
634582.5	4254744.42	0.000626132	0.000210736	0.000575465	0.000432174	0.001844507	17.88695	6.15992	9.33402	7.00985
634582	4254766.52	0.000645624	0.000199033	0.000576911	0.000411935	0.001833502	18.44378	5.81784	9.35747	6.68157
634581.4	4254788.62	0.000664679	0.000188328	0.000569958	0.000391729	0.001814694	18.98815	5.50492	9.2447	6.35382
634580.9	4254810.72	0.0006844	0.000178584	0.000562539	0.000373405	0.001798927	19.55151	5.2201	9.12435	6.05661
634568.2	4254744.09	0.00053281	0.000206983	0.000563581	0.000433087	0.001736461	15.22098	6.05024	9.14126	7.02465
634567.7	4254766.19	0.000548047	0.000195911	0.000560956	0.000410195	0.001715108	15.65626	5.72658	9.09868	6.65334
		0.000548047		0.000554804	0.000388877	0.001713100				6.30757
634567.2	4254788.29		0.000185702				16.09012	5.42818	8.9989	
634566.6	4254810.38	0.000578909	0.000176338	0.000548251	0.000371101	0.001674599	16.53792	5.15446	8.8926	6.01925
634553.9	4254743.76	0.000460373	0.000202711	0.000541875	0.000428468	0.001633428	13.15166	5.92536	8.78919	6.94974
634553.4	4254765.86	0.000473188	0.00019243	0.000543947	0.000407476	0.001617041	13.51776	5.62483	8.82279	6.60924
634552.9	4254787.96	0.000485887	0.000182825	0.000539073	0.000386479	0.001594263	13.88052	5.34407	8.74374	6.26867
634552.4	4254810.05	0.000498867	0.000173916	0.000533786	0.000369724	0.001576293	14.25134	5.08365	8.65798	5.99691
634539.6	4254743.43	0.000498867	0.000173310	0.000533760	0.000303724	0.001576255	11.50108	5.78407	8.3234	6.84333
634539.1	4254765.53	0.00041391	0.000188522	0.000522942	0.000403748	0.001529122	11.82433	5.51061	8.4821	6.54877
634538.6	4254787.62	0.000425051	0.000179636	0.00052432	0.000384572	0.001513579	12.14259	5.25086	8.50445	6.23774
634538.1	4254809.72	0.000435992	0.000171252	0.000519135	0.000366461	0.00149284	12.45516	5.0058	8.42034	5.94398
634489.6	4254742.27	0.00026883	0.000177227	0.000403843	0.000390472	0.001240373	7.67978	5.18045	6.55032	6.33344
634489.1	4254764.37	0.000276626	0.00017128	0.000422813	0.000375903	0.001246622	7.90247	5.00661	6.85801	6.09713
634488.6	4254786.46	0.000284162	0.000165264	0.000436337	0.00036228	0.001248043	8.11778	4.83076	7.07737	5.87616
634488.1	4254808.56	0.000284162	0.000163264	0.000436337	0.00036228	0.001248043	8.32919	4.65546	7.07737	5.64388
634439.6	4254741.11	0.000191665	0.000154635	0.000332112	0.000348523	0.001026935	5.47537	4.52007	5.38684	5.65302
634439.1	4254763.21	0.000197397	0.0001511	0.000345463	0.0003381	0.001032059	5.63913	4.41673	5.60339	5.48396
634438.6	4254785.31	0.000203021	0.00014745	0.000356403	0.000328256	0.001035131	5.79979	4.31006	5.78084	5.3243
634438.1	4254807.4	0.000208521	0.000143692	0.000363854	0.000318151	0.001034219	5.9569	4.20021	5.9017	5.1604
634389.7	4254739.95	0.000142807	0.000134078	0.000273957	0.000300903	0.000851745	4.07962	3.91918	4.44357	4.88063
634389.1	4254762.05	0.000142807	0.000134078	0.000273337	0.000300303	0.0008573	4.20211	3.854		4.77656
									4.60436	
634388.6	4254784.15	0.000151356	0.000129568	0.000292209	0.000287477	0.000860609	4.32384	3.78734	4.73961	4.66286
634388.1	4254806.24	0.000155575	0.000127231	0.000298944	0.000280655	0.000862404	4.44436	3.71902	4.84886	4.55221
634339.7	4254738.79	0.000110489	0.000116611	0.000227156	0.000254698	0.000708954	3.15639	3.40859	3.68446	4.13119
634339.2	4254760.89	0.000113654	0.00011513	0.000233852	0.000250996	0.000713633	3.24681	3.36532	3.79307	4.07115
634338.6	4254782.99	0.000115054	0.00011313	0.000233032	0.000247009	0.000717173	3.33743	3.32077	3.88842	4.00648
634338.1	4254805.08	0.000120019	0.00011206	0.000245356	0.000243044	0.00072048	3.42864	3.27558	3.97967	3.94216
634239.7	4254736.47	7.2449E-05	8.9284E-05	0.000163293	0.000180724	0.00050575	2.06968	2.60982	2.6486	2.93134
634239.2	4254758.57	7.42735E-05	8.86976E-05	0.000167137	0.000179951	0.000510058	2.1218	2.59268	2.71095	2.91879
634238.7	4254780.67	7.61158E-05	8.8065E-05	0.000170963	0.000179339	0.000514483	2.17443	2.57419	2.77302	2.90887
634238.2	4254802.77	7.7962E-05	8.73832E-05	0.0001743	0.000178478	0.000518124	2.22717	2.55426	2.82714	2.89491
634139.7	4254734.15	5.14877E-05	6.92009E-05	0.0001743	0.000173478	0.000373843	1.47087	2.02278	1.94742	2.15874
634139.2	4254756.25	5.27136E-05	6.90917E-05	0.000123095	0.00013315	0.00037805	1.50589	2.01959	1.9966	2.15968
634138.7	4254778.35	5.39339E-05	6.89316E-05	0.000125858	0.00013315	0.000381874	1.54075	2.01491	2.04141	2.15969

634138.2	4254800.45	5.51457E-05	6.87223E-05	0.00012832	0.000133079	0.000385266	1.57537	2.00879	2.08134	2.15853
634039.8	4254731.84	3.84739E-05	5.42378E-05	9.00194E-05	0.000102804	0.000285535	1.0991	1.5854	1.46011	1.66747
634039.2	4254753.93	3.9354E-05	5.435E-05	9.24651E-05	0.000103085	0.000289254	1.12424	1.58868	1.49978	1.67204
634038.7	4254776.03	4.02315E-05	5.44256E-05	9.47647E-05	0.000103297	0.000292719	1.14931	1.59089	1.53708	1.67548
634038.2	4254798.13	4.1106E-05	5.44666E-05	9.69004E-05	0.00010345	0.000295923	1.17429	1.59209	1.57172	1.67796
633939.8	4254729.52	2.98291E-05	4.31353E-05	6.94355E-05	8.21285E-05	0.000224528	0.85214	1.26087	1.12624	1.33212
633939.3	4254751.61	3.04694E-05	4.3317E-05	7.13214E-05	8.25878E-05	0.000227696	0.87043	1.26618	1.15683	1.33957
633938.8	4254773.71	3.11127E-05	4.34792E-05	7.31623E-05	8.29638E-05	0.000230718	0.88881	1.27092	1.18669	1.34567
633938.2	4254795.81	3.17568E-05	4.36201E-05	7.49367E-05	8.32647E-05	0.000233578	0.90721	1.27504	1.21547	1.35055
634621.2	4254834.07	0.00140073	0.000174836	0.00058454	0.000360899	0.002521005	40.01521	5.11054	9.48121	5.85377
634618.6	4254857.69	0.001401752	0.000165357	0.000566378	0.000344087	0.002477574	40.04441	4.83348	9.18662	5.58107
634615.9	4254881.31	0.001402541	0.000156768	0.000546292	0.000328682	0.002434283	40.06695	4.58242	8.86083	5.3312
634613.3	4254904.92	0.001399881	0.000148923	0.000522664	0.000313116	0.002384584	39.99095	4.3531	8.47759	5.07872
634610.7	4254928.54	0.001398226	0.000141764	0.000500051	0.000298507	0.002338548	39.94366	4.14385	8.11081	4.84177
634608	4254952.16	0.001397987	0.000135213	0.000478773	0.000285358	0.002297331	39.93685	3.95235	7.76567	4.6285
		0.001397451						3.77604		
634605.4	4254975.78		0.000129181	0.000457781	0.000273321	0.002257734	39.92152		7.42518	4.43326
634602.7	4254999.39	0.00139641	0.000123611	0.000437244	0.000261954	0.00221922	39.89179	3.61322	7.09208	4.24889
634600.1	4255023.01	0.001395133	0.000118451	0.000417515	0.000251302	0.0021824	39.85531	3.46238	6.77207	4.0761
634597.5	4255046.63	0.001394108	0.000113663	0.000399093	0.000241501	0.002148365	39.82604	3.32243	6.47327	3.91713
634594.8	4255070.25	0.00139386	0.000109214	0.000382487	0.000232723	0.002118284	39.81895	3.19239	6.20393	3.77475
634592.2	4255093.86	0.00139439	0.000105075	0.000368433	0.000225271	0.00209317	39.8341	3.07139	5.97597	3.65389
634607	4254832.48	0.001045756	0.000173554	0.000575773	0.000360151	0.002155234	29.87452	5.07307	9.33902	5.84163
634604.4	4254856.1	0.00104726	0.000164183	0.000557262	0.000342648	0.002111352	29.91748	4.79917	9.03876	5.55773
634601.7	4254879.72	0.001048843	0.000155696	0.000537959	0.000327685	0.002070183	29.96272	4.55109	8.72567	5.31503
634599.1	4254903.34	0.001049304	0.000147952	0.000516371	0.000312503	0.00202613	29.97588	4.32473	8.37552	5.06878
634596.5	4254926.95	0.001049934	0.000140882	0.000495178	0.000298116	0.001984111	29.99389	4.11806	8.03177	4.83543
634593.8	4254950.57	0.001050709	0.000134396	0.000474493	0.000284903	0.001944501	30.01602	3.92846	7.69625	4.62112
634591.2	4254974.19	0.001051284	0.000128422	0.00045412	0.000272875	0.001906701	30.03243	3.75386	7.36581	4.42602
634588.5	4254997.81	0.00105153	0.000122903	0.000434203	0.000261555	0.001870192	30.03948	3.59252	7.04276	4.24241
			0.000122303							
634585.9	4255021.42	0.00105132		0.000414845	0.000250679	0.001834633	30.03346	3.44306	6.72876	4.066
634583.3	4255045.04	0.001051497	0.000113046	0.000397153	0.000241093	0.001802789	30.03854	3.3044	6.4418	3.91052
634580.6	4255068.66	0.001052617	0.000108642	0.000382092	0.000232922	0.001776274	30.07053	3.17568	6.19752	3.77798
634578	4255092.28	0.001053885	0.000104535	0.00036938	0.000226037	0.001753837	30.10675	3.05561	5.99133	3.66631
634592.8	4254830.9	0.00083061	0.000172191	0.000564418	0.000360342	0.001927561	23.72836	5.03324	9.15483	5.84473
634590.2	4254854.52	0.000832341	0.000162944	0.000545665	0.000341393	0.001882343	23.7778	4.76295	8.85066	5.53738
634587.5	4254878.13	0.000834497	0.000154579	0.000527685	0.000325857	0.001842616	23.83939	4.51842	8.55902	5.28538
					0.000311657	0.001803553				
634584.9	4254901.75	0.000836354	0.000146948	0.000508593			23.89244	4.29538	8.24936	5.05507
634582.3	4254925.37	0.000837992	0.000139966	0.000489056	0.000297463	0.001764477	23.93924	4.09129	7.93246	4.82484
634579.6	4254948.99	0.000839378	0.000133553	0.000469358	0.000284365	0.001726654	23.97885	3.90384	7.61296	4.61238
634577	4254972.6	0.000840397	0.000127644	0.000449635	0.000272329	0.001690005	24.00794	3.7311	7.29306	4.41717
634574.3	4254996.22	0.000841178	0.00012218	0.000430359	0.000261043	0.00165476	24.03027	3.57138	6.98041	4.2341
634571.7	4255019.84	0.000841743	0.000117114	0.000411631	0.000250241	0.001620728	24.0464	3.42332	6.67663	4.05889
634569.1	4255043.46	0.000842402	0.000112415	0.000394581	0.000240768	0.001590167	24.06523	3.28596	6.40009	3.90525
634566.4	4255067.07	0.000843661	0.000108052	0.000380406	0.000232866	0.001564985	24.1012	3.15842	6.17017	3.77707
634563.8	4255090.69	0.000844044	0.000103967	0.000366268	0.000225227	0.001539507	24.11214	3.03902	5.94085	3.65318
634578.6	4254829.31	0.00068509	0.000170767	0.00055227	0.000359296	0.001767423	19.57124	4.99161	8.9578	5.82776
634576	4254852.93	0.000687259	0.000161681	0.000534343	0.000341275	0.001724558	19.6332	4.72602	8.66702	5.53546
634573.3	4254876.55	0.000689837	0.000153447	0.000517868	0.000325045	0.001686196	19.70683	4.48533	8.3998	5.27221
634570.7	4254900.16	0.000692163	0.000145933	0.000500423	0.000310549	0.001649068	19.77329	4.2657	8.11684	5.03709
634568.1	4254923.78	0.000694119	0.000139042	0.000481978	0.000296759	0.001611898	19.82916	4.06427	7.81767	4.81342
634565.4	4254947.4	0.000695891	0.000132706	0.000463253	0.000283686	0.001575535	19.87978	3.87908	7.51394	4.60137
634562.8	4254971.02	0.000697281	0.000126862	0.000444467	0.000271727	0.001540336	19.9195	3.70824	7.20923	4.4074
634560.2	4254994.63	0.000698363	0.000121457	0.000425916	0.000260484	0.00150622	19.95042	3.55025	6.90834	4.22504
634557.5	4255018.25	0.000699104	0.00011644	0.000407708	0.000249657	0.00147291	19.97159	3.40362	6.61301	4.04943
634554.9	4255041.87	0.000700052	0.000111786	0.000391362	0.000240317	0.001443517	19.99865	3.26756	6.34788	3.89793
634552.2	4255065.49	0.000701507	0.000107461	0.000378311	0.000232791	0.00142007	20.04023	3.14114	6.13619	3.77586
634549.6	4255089.1	0.000701532	0.000103404	0.00036264	0.000224221	0.001391796	20.04093	3.02255	5.882	3.63686
634564.4	4254827.72	0.000579683	0.000169239	0.000539793	0.000358048	0.001646763	16.56002	4.94694	8.75542	5.80753
634561.8	4254851.34	0.000582229	0.000160358	0.000523183	0.000340024	0.001605794	16.63277	4.68734	8.48601	5.51517
634559.2	4254874.96	0.00058504	0.000152282	0.000507824	0.000323796	0.001568943	16.71308	4.45129	8.23689	5.25196
634556.5	4254898.58	0.000587527	0.000144891	0.000491421	0.000309295	0.001533133	16.7841	4.23524	7.97083	5.01675
634553.9	4254922.19	0.000589705	0.000138107	0.000474196	0.000296083	0.001498091	16.84633	4.03694	7.69144	4.80245
634551.2	4254945.81	0.000591587	0.000131856	0.000456445	0.000282951	0.001462839	16.90009	3.85423	7.40352	4.58945
634548.6	4254969.43	0.000593143	0.000126082	0.000438433	0.000270963	0.001428621	16.94456	3.68545	7.11136	4.39501
634546	4254993.05	0.000594438	0.000120736	0.000420656	0.000259749	0.001395579	16.98154	3.52919	6.82302	4.21312
634543.3	4255016.66	0.000595428	0.000115775	0.000403225	0.000249015	0.001363444	17.00982	3.38418	6.54029	4.03902
634540.7	4255040.28	0.000596339	0.000111162	0.000386954	0.000239494	0.001333949	17.03585	3.24933	6.27637	3.88458
634538	4255063.9	0.000597549	0.000106872	0.000373473	0.00023149	0.001309384	17.07043	3.12392	6.05772	3.75475
634535.4	4255087.52	0.000597882	0.00010285	0.000358492	0.000223062	0.001282287	17.07993	3.00637	5.81473	3.61806
634550.2	4254826.14	0.000499638	0.000167541	0.000526602	0.000356539	0.00155032	14.27335	4.89733	8.54146	5.78305
		0.000502406		0.000520002		0.00153032				
634547.6	4254849.76		0.000158916		0.000338527		14.35242	4.64521	8.2923	5.49089
634545	4254873.37	0.000505216	0.000151036	0.000496805	0.000322109	0.001475166	14.43269	4.41487	8.05816	5.2246
634542.3	4254896.99	0.000507835	0.000143801	0.000481691	0.000307779	0.001441106	14.50753	4.20338	7.813	4.99216
634539.7	4254920.61	0.000510121	0.000137137	0.00046543	0.000294631	0.00140732	14.57284	4.00859	7.54926	4.7789
634537	4254944.23	0.000512129	0.000130987	0.000448695	0.000281633	0.001373444	14.63019	3.82881	7.27782	4.56807
634534.4	4254967.84	0.000513846	0.000125298	0.000431715	0.000269797	0.001340655	14.67923	3.66253	7.0024	4.37609
634531.8	4254991.46	0.00051526	0.00012002	0.000414665	0.000258379	0.001308324	14.71964	3.50824	6.72585	4.19089
634529.1	4255015.08	0.000516414	0.000115115	0.000397965	0.000248006	0.001277499	14.75261	3.36487	6.45497	4.02264
634526.5	4255038.7	0.000517364	0.000110548	0.000382015	0.00023842	0.001248347	14.77974	3.23139	6.19626	3.86716
634523.8	4255062.31	0.000518425	0.000106297	0.000368182	0.000230195	0.001223099	14.81004	3.10712	5.97189	3.73376
634521.2	4255085.93	0.000518946	0.000102314	0.00035384	0.000221988	0.001197088	14.82493	2.99069	5.73927	3.60064
634536	4254824.55	0.000436556	0.000165605	0.000512202	0.00035469	0.001469053	12.47126	4.84073	8.30789	5.75306
634533.4	4254848.17	0.000439444	0.000157298	0.000498234	0.000336704	0.00143168	12.55377	4.59791	8.08133	5.46133
634530.8	4254871.79	0.000442292	0.000149658	0.000484824	0.0003202	0.001396975	12.63513	4.37459	7.86383	5.19363
634528.1	4254895.4	0.000444964	0.000142618	0.000470922	0.000305872	0.001364376	12.71147	4.16879	7.63833	4.96123
634525.5	4254919.02	0.000447351	0.000136107	0.000455907	0.000292561	0.001331925	12.77964	3.97847	7.39479	4.74533
634522.8	4254942.64	0.000449432	0.000130077	0.000440108	0.000280008	0.001299625	12.83909	3.80223	7.13854	4.54171

634520.2	4254966.26	0.000451253	0.000124485	0.000424097	0.000268315	0.00126815	12.89113	3.63877	6.87884	4.35205
634517.6	4254989.87	0.000452833	0.000119291	0.000408042	0.000257104	0.00123727	12.93626	3.48695	6.61842	4.17022
634514.9	4255013.49	0.00045409	0.000114452	0.000392043	0.000246807	0.001207393	12.97218	3.3455	6.35892	4.0032
634512.3	4255037.11	0.000455121	0.00010994	0.000376638	0.000237255	0.001178955	13.00163	3.21361	6.10906	3.84827
634509.6	4255060.73	0.00045619	0.000105734	0.000363537	0.000229182	0.001154644	13.03217	3.09065	5.89656	3.71733
634507	4255084.34	0.000456671	0.000101788	0.000348668	0.000220576	0.001127703	13.0459	2.97532	5.65538	3.57773
634483.7	4254842.62	0.000294996	0.000149403	0.000437028	0.000324809	0.001206236	8.42728	4.36714	7.08857	5.26838
634481.1	4254866.23	0.000297906	0.000143078	0.000430983	0.000310212	0.001182179	8.51041	4.18224	6.99053	5.03162
634478.4	4254889.85	0.000297500	0.000143078	0.000430303	0.000310212	0.001157296	8.58712	4.00696	6.85619	4.81607
634475.8	4254913.47	0.000300332	0.000137081	0.000422701	0.000230322	0.001137250	8.65682	3.84122	6.69438	4.60641
634473.1	4254937.09	0.000305237	0.00012606	0.000401529	0.000271685	0.001104511	8.71983	3.68479	6.51278	4.40672
634470.5	4254960.7	0.000307208	0.000121017	0.000389515	0.000260736	0.001078476	8.77613	3.53739	6.31791	4.22913
634467.9	4254984.32	0.00030895	0.000116264	0.000377003	0.000250253	0.001052471	8.8259	3.39847	6.11498	4.0591
634465.2	4255007.94	0.000310488	0.000111789	0.000364269	0.00024022	0.001026766	8.86983	3.26766	5.90843	3.89636
634462.6	4255031.56	0.000311773	0.000107574	0.000351506	0.000231027	0.001001881	8.90654	3.14445	5.70142	3.74725
634460	4255055.17	0.000312826	0.000103604	0.000338885	0.00022234	0.000977655	8.93663	3.02841	5.4967	3.60634
634457.3	4255078.79	0.000313692	9.98623E-05	0.000326518	0.000214245	0.000954316	8.96135	2.91903	5.2961	3.47504
634434	4254837.06	0.000211283	0.000137539	0.000364481	0.000301442	0.001014744	6.0358	4.02033	5.91186	4.88938
634431.4	4254860.68	0.000214046	0.000132931	0.000363304	0.000289696	0.000999977	6.11474	3.88564	5.89277	4.69886
634428.7	4254884.3	0.000216626	0.000128421	0.000360195	0.000278087	0.000983329	6.18843	3.75382	5.84235	4.51056
634426.1	4254907.92	0.000219011	0.000124024	0.000355453	0.00027501	0.00096599	6.25658	3.62528	5.76544	4.33886
	4254931.53	0.000219011	0.000124024	0.000333433	0.000257065	0.000947395		3.50051		
634423.5							6.31927		5.66674	4.16959
634420.8	4254955.15	0.000223216	0.000115624	0.000342214	0.000247179	0.000928233	6.37669	3.37975	5.55069	4.00924
634418.2	4254978.77	0.000225037	0.00011164	0.000334248	0.000238131	0.000909056	6.42872	3.26329	5.42148	3.86248
634415.5	4255002.39	0.000226661	0.000107808	0.000325696	0.000229292	0.000889457	6.47512	3.15129	5.28277	3.71911
634412.9	4255026	0.000228144	0.000104137	0.000316771	0.000221006	0.000870057	6.51748	3.04397	5.13801	3.5847
634410.3	4255049.62	0.00022943	0.000100618	0.000307609	0.000213291	0.000850948	6.55422	2.94112	4.98941	3.45957
634407.6	4255073.24	0.000230531	9.72541E-05	0.000298353	0.00020589	0.000832028	6.58566	2.84279	4.83927	3.33953
634384.3	4254831.51	0.00015755	0.000123518	0.000301138	0.000270558	0.000852764	4.50079	3.6105	4.88445	4.38844
634381.7	4254855.13	0.000160031	0.000120359	0.000302212	0.000261576	0.000844178	4.57166	3.51815	4.90187	4.24275
634379	4254878.75	0.000162375	0.000117217	0.000302529	0.000253503	0.000835623	4.63863	3.42631	4.907	4.11181
634376.4	4254902.36	0.000162575	0.000117217	0.000302828	0.000245044	0.000824603	4.70157	3.33499	4.88039	3.97461
	4254925.98	0.000164578	0.000114033	0.000300888						
634373.8					0.000236968	0.000812536	4.76067	3.24431	4.83242	3.84361
634371.1	4254949.6	0.000168576	0.000107919	0.000294095	0.000229004	0.000799594	4.81578	3.15452	4.77021	3.71443
634368.5	4254973.22	0.000170366	0.000104885	0.000289518	0.000221673	0.000786442	4.86691	3.06585	4.69597	3.59552
634365.8	4254996.83	0.000172015	0.000101901	0.000284332	0.000214398	0.000772645	4.91401	2.97861	4.61185	3.47753
634363.2	4255020.45	0.000173526	9.89711E-05	0.00027866	0.000207465	0.000758622	4.95719	2.89298	4.51985	3.36508
634360.6	4255044.07	0.000174911	9.61063E-05	0.000272474	0.000200938	0.000744429	4.99674	2.80924	4.41951	3.25921
634357.9	4255067.69	0.000176153	9.33106E-05	0.000265712	0.000194418	0.000729594	5.03224	2.72752	4.30984	3.15345
634334.6	4254825.96	0.000121255	0.00010975	0.000247517	0.000237045	0.000715568	3.46395	3.20806	4.01472	3.84486
634332	4254849.58	0.000123345	0.000107528	0.000250148	0.000231417	0.000712438	3.52364	3.14311	4.05739	3.75358
634329.4	4254873.19	0.000125349	0.000105318	0.000251341	0.000225397	0.000707404	3.58088	3.0785	4.07674	3.65593
634326.7	4254896.81	0.00012727	0.000103317	0.000251566	0.000219597	0.000701549	3.63576	3.01416	4.08039	3.56185
634324.1	4254920.43	0.000129103	0.000103117	0.000251300	0.000213357	0.000694494	3.68815	2.95001	4.06665	3.46701
634321.4	4254944.05	0.000130847	9.87309E-05	0.000248857	0.000207772	0.000686208	3.73797	2.88596	4.03645	3.37006
634318.8	4254967.66	0.000132498	9.65445E-05	0.000246448	0.000202077	0.000677567	3.78511	2.82205	3.99737	3.27768
634316.2	4254991.28	0.000134054	9.43615E-05	0.000243501	0.000196442	0.000668359	3.82958	2.75824	3.94958	3.18628
634313.5	4255014.9	0.000135515	9.21857E-05	0.000240171	0.000191095	0.000658966	3.8713	2.69464	3.89556	3.09955
634310.9	4255038.52	0.000136877	9.00205E-05	0.000236549	0.000185872	0.000649318	3.91021	2.63135	3.83681	3.01484
634308.2	4255062.13	0.000138144	8.78724E-05	0.000232634	0.000180818	0.000639469	3.94642	2.56856	3.77332	2.93286
634232.6	4254838.47	7.9506E-05	8.52382E-05	0.000175889	0.000174314	0.000514947	2.27128	2.49156	2.85291	2.82737
634230	4254862.09	8.08033E-05	8.40353E-05	0.000177187	0.000172049	0.000514075	2.30834	2.4564	2.87397	2.79063
634227.3	4254885.71	8.20712E-05	8.28284E-05	0.000177679	0.000169528	0.000512106	2.34456	2.42112	2.88195	2.74973
634224.7	4254909.32	8.33128E-05	8.16266E-05	0.000177853	0.000166936	0.000509728	2.38003	2.38599	2.88476	2.7077
634222.1	4254932.94	8.45282E-05	8.04309E-05	0.00017774	0.000164235	0.000506934	2.41475	2.35104	2.88293	2.66389
634219.4	4254956.56	8.57145E-05	7.92424E-05	0.00017774	0.000164233	0.00050334	2.44864	2.3163	2.87694	2.62022
634216.8	4254980.18	8.68679E-05	7.80601E-05	0.000176762	0.000158788	0.000500478	2.48159	2.28174	2.86707	2.57554
634214.1	4255003.79	8.79849E-05	7.68829E-05	0.000175928	0.00015607	0.000496866	2.5135	2.24733	2.85355	2.53145
634211.5	4255027.41	8.9062E-05	7.57081E-05	0.000174887	0.000153338	0.000492995	2.54427	2.21299	2.83666	2.48714
634208.9	4255051.03	9.00933E-05	7.45319E-05	0.000173496	0.000150479	0.0004886	2.57373	2.17861	2.81409	2.44077
634133.2	4254827.36	5.58472E-05	6.77257E-05	0.000129145	0.000131267	0.000383985	1.59541	1.97966	2.09472	2.12915
634130.6	4254850.98	5.67332E-05	6.71003E-05	0.000130216	0.000130297	0.000384347	1.62072	1.96138	2.1121	2.11341
634128	4254874.6	5.76024E-05	6.64599E-05	0.000131244	0.000129458	0.000384765	1.64555	1.94266	2.12877	2.09981
634125.3	4254898.22	5.8446E-05	6.58007E-05	0.000131898	0.000128518	0.000384663	1.66965	1.92339	2.13938	2.08456
634122.7	4254921.83	5.92648E-05	6.51288E-05	0.000132238	0.000127478	0.00038411	1.69304	1.90375	2.1449	2.06769
634120	4254945.45	6.00608E-05	6.4448E-05	0.000132309	0.000126348	0.000383166	1.71578	1.88385	2.14605	2.04936
634117.4	4254969.07	6.08347E-05	6.3762E-05	0.000132219	0.000125174	0.00038199	1.73789	1.8638	2.14458	2.03032
634114.8	4254992.69	6.15874E-05	6.30737E-05	0.000131993	0.000123973	0.000380627	1.75939	1.84368	2.14092	2.01083
634112.1	4255016.3	6.23183E-05	6.23854E-05	0.000131553	0.000123773	0.000379103	1.78027	1.82356	2.1354	1.99094
634109.5	4255039.92	6.30275E-05	6.16964E-05	0.000131033	0.000122740	0.000379103	1.80053	1.80342	2.1334	1.96951
634033.8	4254816.26	4.13723E-05	5.39918E-05	9.74892E-05	0.000102599	0.000295452	1.1819	1.57821	1.58127	1.66415
634031.2	4254839.88	4.20437E-05	5.37263E-05	9.88424E-05	0.00010218	0.000296793	1.20108	1.57045	1.60322	1.65736
634028.6	4254863.49	4.26969E-05	5.34355E-05	9.99701E-05	0.000101723	0.000297826	1.21974	1.56195	1.62151	1.64995
634025.9	4254887.11	4.33302E-05	5.31208E-05	0.000100884	0.000101234	0.000298569	1.23783	1.55275	1.63633	1.64201
634023.3	4254910.73	4.39456E-05	5.27862E-05	0.000101651	0.000100769	0.000299152	1.25541	1.54297	1.64877	1.63447
634020.7	4254934.35	4.4542E-05	5.24355E-05	0.000102292	0.000100329	0.000299598	1.27245	1.53272	1.65917	1.62733
634018	4254957.96	4.51168E-05	5.20685E-05	0.000102702	9.98252E-05	0.000299713	1.28887	1.52199	1.66583	1.61916
634015.4	4254981.58	4.56703E-05	5.16867E-05	0.000102802	9.91809E-05	0.00029934	1.30468	1.51083	1.66744	1.60871
634012.7	4255005.2	4.62013E-05	5.12912E-05	0.000102608	9.84004E-05	0.000298501	1.31985	1.49927	1.6643	1.59605
634010.1	4255028.82	4.67197E-05	5.0893E-05	0.000102539	9.77802E-05	0.000297931	1.33466	1.48763	1.66317	1.58599
633931.8	4254828.77	3.22718E-05	4.32684E-05	7.63757E-05	8.2647E-05	0.000237551	0.92192	1.26476	1.23881	1.34053
633929.2	4254852.39	3.27783E-05	4.3174E-05	7.76063E-05	8.24682E-05	0.000234303	0.93639	1.262	1.25877	1.33763
633926.6	4254876.01	3.32754E-05	4.30608E-05	7.86987E-05	8.22431E-05	0.000237278	0.95059	1.25869	1.27649	1.33398
633923.9	4254899.62	3.37598E-05	4.29273E-05	7.96432E-05	8.19762E-05	0.000238307	0.96443	1.25479	1.29181	1.32965
633921.3	4254923.24	3.42341E-05	4.27778E-05	8.05076E-05	8.17296E-05	0.000239249	0.97798	1.25042	1.30583	1.32565
633918.6	4254946.86	3.46969E-05	4.26136E-05	8.13091E-05	8.15193E-05	0.000240139	0.9912	1.24562	1.31883	1.32224
633916	4254970.48	3.51439E-05	4.24306E-05	8.17801E-05	8.11346E-05	0.000240489	1.00397	1.24027	1.32647	1.316

C22012 4	425 400 4 00	2 557025 05	4 222465 05	0 24245 05	0.07455.05	0.000340603	1.01620	1 22454	1 22221	1 20069
633913.4	4254994.09	3.55783E-05	4.22346E-05	8.2134E-05	8.0745E-05	0.000240692	1.01638	1.23454	1.33221	1.30968
633910.7	4255017.71	3.60001E-05	4.20259E-05	8.23282E-05	8.03097E-05	0.000240664	1.02843	1.22844	1.33536	1.30262
634589.5	4255118.73	0.001392453	0.000100989	0.000352844	0.000217233	0.00206352	39.77876	2.95196	5.72312	3.52351
634586.7	4255143.56	0.001388691	9.7173E-05	0.000337468	0.000209396	0.002032727	39.67127	2.84042	5.47371	3.39639
634584	4255168.39	0.001382947	9.35959E-05	0.000321864	0.000201495	0.001999902	39.50719	2.73586	5.22062	3.26824
634581.3	4255193.22	0.001376248	9.02398E-05	0.000307262	0.000194042	0.001967793	39.31582	2.63776	4.98378	3.14736
634578.6	4255218.05	0.001368828	8.70863E-05	0.000293609	0.00018709	0.001936613	39.10385	2.54558	4.76232	3.03459
634575.9	4255242.88	0.001360574	8.41178E-05	0.000280839	0.000180549	0.001906079	38.86804	2.45881	4.5552	2.92849
634573.1	4255267.72	0.00135213	8.1318E-05	0.000268887	0.000174384	0.001876719	38.62684	2.37697	4.36133	2.8285
634570.4	4255292.55	0.001343566	7.86755E-05	0.0002577	0.00016857	0.001848512	38.38219	2.29973	4.17989	2.73419
634567.7	4255317.38	0.001333653	7.61761E-05	0.000247215	0.000163074	0.001820118	38.099	2.22667	4.00981	2.64505
634565	4255342.21	0.001322218	7.38094E-05	0.000237377	0.000157872	0.001791276	37.77232	2.15749	3.85024	2.56067
634562.2	4255367.04	0.001312068	7.15659E-05	0.000228142	0.000157672	0.001751276	37.42523	2.09191	3.70045	2.48071
	4255307.04	0.001310003		0.000228142						2.40483
634559.5			6.94359E-05		0.000148264	0.001731801	36.98457	2.02965	3.55961	
634556.8	4255416.71	0.001274116	6.7411E-05	0.000211282	0.000143815	0.001696625	36.39817	1.97046	3.42699	2.33268
634554.1	4255441.54	0.001246928	6.54852E-05	0.000203584	0.000139586	0.001655583	35.62148	1.91417	3.30212	2.26408
634551.4	4255466.37	0.001203842	6.36505E-05	0.000196317	0.000135556	0.001599365	34.39063	1.86054	3.18425	2.19871
634548.6	4255491.2	0.001136794	6.1901E-05	0.000189451	0.000131711	0.001519856	32.47524	1.8094	3.07288	2.13634
634545.9	4255516.03	0.001035944	6.02315E-05	0.00018296	0.000128041	0.001407177	29.59422	1.7606	2.96761	2.07682
634575.3	4255117.17	0.001052108	0.000100466	0.000351865	0.000217068	0.001721507	30.05599	2.93669	5.70723	3.52083
634572.5	4255142	0.001049736	9.66749E-05	0.000335457	0.000208627	0.001690494	29.98821	2.82586	5.44109	3.38392
634569.8	4255166.83	0.001046589	9.31238E-05	0.000320072	0.000200793	0.001660577	29.89832	2.72206	5.19155	3.25685
634567.1	4255191.66	0.001042921	8.9793E-05	0.000305662	0.00019344	0.001631815	29.79352	2.6247	4.95782	3.13759
634564.4	4255216.5	0.001038576	8.66614E-05	0.000292167	0.000186529	0.001603933	29.66941	2.53316	4.73893	3.02549
634561.7	4255241.33	0.001030370	8.37145E-05	0.000279539	0.000180028	0.001576723	29.52271	2.44702	4.53411	2.92005
634558.9	4255266.16	0.00102767	8.09355E-05	0.000267713	0.000173902	0.001550222	29.35786	2.36579	4.3423	2.82069
634556.2	4255290.99	0.00102107	7.83109E-05	0.000256632	0.000168119	0.001524133	29.16932	2.28907	4.16256	2.72689
634553.5	4255315.82	0.001013276	7.58289E-05	0.000246242	0.000162655	0.001498001	28.94666	2.21652	3.99403	2.63825
634550.8	4255340.65	0.00100364	7.34776E-05	0.000236486	0.000157479	0.001471082	28.67137	2.14779	3.83579	2.5543
634548	4255365.49	0.000993693	7.1248E-05	0.000227321	0.000152573	0.001444834	28.38722	2.08262	3.68713	2.47472
634545.3	4255390.32	0.000981103	6.91321E-05	0.000218704	0.000147917	0.001416856	28.02755	2.02077	3.54737	2.39921
634542.6	4255415.15	0.00096463	6.71209E-05	0.000210589	0.000143491	0.001385831	27.55695	1.96198	3.41575	2.32742
634539.9	4255439.98	0.000942849	6.52068E-05	0.00020294	0.000139277	0.001350272	26.93473	1.90603	3.29168	2.25906
634537.2	4255464.81	0.0009124	6.33833E-05	0.00019572	0.000135264	0.001306767	26.0649	1.85273	3.17457	2.19397
634534.4	4255489.65	0.000870256	6.16441E-05	0.000188895	0.000131434	0.001252229	24.86094	1.80189	3.06387	2.13185
634531.7	4255514.48	0.000870230	5.99845E-05	0.000188833	0.000131434	0.001232223	23.22966	1.75338	2.95921	2.07256
634561.1	4255115.61	0.000843231	9.9929E-05	0.000349113	0.000216119	0.001508392	24.0889	2.92098	5.6626	3.50544
634558.3	4255140.44	0.000841892	9.61682E-05	0.000333029	0.000207834	0.001478923	24.05065	2.81105	5.40171	3.37106
634555.6	4255165.28	0.000840175	9.26448E-05	0.000317913	0.000200059	0.001450792	24.00161	2.70806	5.15654	3.24495
634552.9	4255190.11	0.000837758	8.93397E-05	0.000303738	0.000192762	0.001423598	23.93257	2.61145	4.92661	3.12659
634550.2	4255214.94	0.000834667	8.6233E-05	0.000290448	0.000185902	0.001397249	23.84425	2.52064	4.71105	3.01532
634547.5	4255239.77	0.000830866	8.33077E-05	0.000277992	0.000179446	0.001371611	23.73567	2.43513	4.50902	2.9106
634544.7	4255264.6	0.000826374	8.05489E-05	0.000266316	0.000173359	0.001346598	23.60735	2.35449	4.31963	2.81188
634542	4255289.43	0.000821056	7.79431E-05	0.000255364	0.000167628	0.001321991	23.45542	2.27832	4.142	2.71892
634539.3	4255314.27	0.000814824	7.54775E-05	0.000245085	0.00016219	0.001297577	23.27741	2.20625	3.97526	2.63072
634536.6	4255339.1	0.000807333	7.3143E-05	0.000235432	0.000157036	0.001272943	23.06339	2.13801	3.8187	2.54711
634533.8	4255363.93	0.000798818	7.09292E-05	0.000226359	0.000152158	0.001248264	22.82015	2.0733	3.67153	2.468
634531.1	4255388.76	0.000788189	6.88269E-05	0.00021782	0.000147527	0.001222363	22.5165	2.01185	3.53303	2.39288
634528.4	4255413.59	0.000774798	6.68287E-05	0.000209776	0.000143124	0.001194526	22.13396	1.95344	3.40255	2.32146
634525.7	4255438.43	0.000757562	6.49259E-05	0.000202184	0.00013893	0.001163603	21.64158	1.89782	3.27942	2.25344
634523	4255463.26	0.000735241	6.31141E-05	0.000195005	0.000134928	0.001128288	21.00392	1.84486	3.16297	2.18852
634520.2	4255488.09	0.000706733	6.13858E-05	0.000188131	0.000131064	0.001087314	20.18952	1.79434	3.05148	2.12585
634517.5	4255512.92	0.000670325	5.97361E-05	0.000181578	0.000127348	0.001038987	19.14945	1.74612	2.94518	2.06558
634546.9	4255114.06	0.000701213	9.93936E-05	0.000345897	0.000215272	0.001361777	20.03184	2.90533	5.61044	3.49171
634544.1	4255138.89	0.000700437	9.56643E-05	0.000330186	0.00020704	0.001333327	20.00966	2.79632	5.3556	3.35818
634541.4	4255163.72	0.0006993	9.21707E-05	0.000315396	0.000199316	0.001306183	19.97717	2.6942	5.11571	3.2329
634538.7	4255188.55	0.000697499	8.88916E-05	0.000313330	0.000193310	0.001300183	19.92572	2.59835	4.89022	3.11592
634536	4255213.38	0.00069513	8.58085E-05	0.000288441	0.000185238	0.001254618	19.85806	2.50823	4.6785	3.00455
634533.3	4255238.21	0.000692151	8.2905E-05	0.000276189	0.000178824	0.001230069	19.77295	2.42336	4.47977	2.90052
634530.5	4255263.05	0.000688464	8.01647E-05	0.000264684	0.000172754	0.001206067	19.66762	2.34326	4.29316	2.80207
634527.8	4255287.88	0.000684169	7.75777E-05	0.000253888	0.000167049	0.001182684	19.54492	2.26764	4.11806	2.70953
634525.1	4255312.71	0.000679076	7.51303E-05	0.000243748	0.000161653	0.001159607	19.39942	2.1961	3.95358	2.62201
634522.4	4255337.54	0.000673001	7.28115E-05	0.000234215	0.000156542	0.00113657	19.22587	2.12832	3.79896	2.53911
634519.6	4255362.37	0.000665666	7.06124E-05	0.000225246	0.000151695	0.00111322	19.01635	2.06404	3.65348	2.46049
634516.9	4255387.21	0.000656754	6.85235E-05	0.000216797	0.00014709	0.001089164	18.76175	2.00298	3.51643	2.38579
634514.2	4255412.04	0.00064588	6.65376E-05	0.000208743	0.000142667	0.001063828	18.4511	1.94493	3.38581	2.31406
634511.5	4255436.87	0.00063248	6.46478E-05	0.000201118	0.000138443	0.001036689	18.06831	1.88969	3.26213	2.24554
634508.8	4255461.7	0.000615771	6.28469E-05	0.000193922	0.000134419	0.001006959	17.59096	1.83705	3.14541	2.18027
634506	4255486.53	0.000595341	6.11282E-05	0.000135322	0.000131115	0.000973924	17.00735	1.78681	3.03245	2.11664
634503.3	4255511.36	0.000570373	5.94857E-05	0.000180306	0.000126714	0.00093688	16.29408	1.7388	2.92456	2.0553
634532.7	425511.50	0.000570575								3.47718
			9.88715E-05	0.000342227	0.000214377	0.001253288	17.07795	2.89007	5.55091	
634529.9	4255137.33	0.000597427	9.51737E-05	0.00032694	0.000206198	0.001225739	17.06692	2.78198	5.30295	3.34453
634527.2	4255162.16	0.000596673	9.17078E-05	0.000312513	0.000198525	0.001199419	17.0454	2.68067	5.06895	3.22007
634524.5	4255186.99	0.000595317	8.8454E-05	0.000298924	0.000191269	0.001173964	17.00664	2.58556	4.84854	3.10238
634521.8	4255211.83	0.000593471	8.53932E-05	0.000286137	0.000184475	0.001149475	16.95391	2.49609	4.64113	2.99217
634519.1	4255236.66	0.000591078	8.25109E-05	0.00027412	0.000178113	0.001125822	16.88555	2.41184	4.44622	2.88899
634516.3	4255261.49	0.000588052	7.97912E-05	0.000262824	0.000172112	0.00110278	16.79911	2.33234	4.263	2.79165
634513.6	4255286.32	0.000584456	7.72219E-05	0.000252207	0.000166444	0.001080329	16.69638	2.25724	4.09079	2.69972
634510.9	4255311.15	0.000580137	7.47909E-05	0.000242223	0.000161069	0.00105822	16.573	2.18618	3.92885	2.61253
634508.2	4255335.99	0.000574984	7.24868E-05	0.000232824	0.000155994	0.001036289	16.4258	2.11883	3.7764	2.53021
634505.4	4255360.82	0.000574564	7.03021E-05	0.000232824	0.000153554	0.001030203	16.2496	2.05497	3.6329	2.45213
634502.7	4255385.65	0.00056142	6.82272E-05	0.000223977	0.00013118	0.001014273	16.0383	1.99432	3.49765	2.43213
634500	4255410.48	0.000552694	6.62536E-05	0.000207556	0.000142148	0.000968652	15.78904	1.93663	3.36655	2.30564
634497.3	4255435.31	0.000542139	6.43748E-05	0.000199888	0.000137888	0.000944289	15.48749	1.88171	3.24217	2.23654
634494.6	4255460.14	0.000529216	6.25845E-05	0.000192767	0.000133886	0.000918453	15.11831	1.82938	3.12667	2.17162
634491.8	4255484.98	0.000513968	6.08733E-05	0.000185727	0.000129908	0.000890476	14.68272	1.77936	3.01248	2.10711
634489.1	4255509.81	0.000495833	5.92384E-05	0.000179079	0.000126116	0.000860267	14.16467	1.73157	2.90466	2.04559

634518.5	4255110.94	0.000519097	9.83652E-05	0.000338101	0.00021328	0.001168843	14.82924	2.87527	5.48398	3.45939
634515.7	4255135.77	0.000518953	9.46985E-05	0.000323281	0.000205178	0.001142111	14.82513	2.76809	5.24361	3.32798
634513	4255160.61	0.000518438	9.12593E-05	0.000309255	0.000197503	0.001116455	14.81042	2.66756	5.0161	3.20349
634510.3	4255185.44	0.000517421	8.80305E-05	0.000296017	0.000190343	0.001091813	14.78138	2.57318	4.80139	3.08736
634507.6	4255210.27	0.000515971	8.49929E-05	0.00028354	0.00018365	0.001068153	14.73995	2.48439	4.599	2.97879
634504.9	4255235.1	0.000514039	8.21312E-05	0.000271789	0.000177343	0.001045302	14.68476	2.40074	4.4084	2.87649
634502.1	4255259.93	0.000511547	7.94302E-05	0.000260724	0.000171391	0.001023092	14.61355	2.32179	4.22894	2.77995
634499.4	4255284.77	0.000508533	7.68774E-05	0.000250306	0.000165749	0.001001465	14.52745	2.24717	4.05996	2.68844
634496.7	4255309.6	0.000504891	7.44625E-05	0.000240501	0.000160435	0.000980289	14.42342	2.17658	3.90091	2.60225
634494	4255334.43	0.000500541	7.21741E-05	0.000231263	0.000155401	0.000959378	14.29914	2.10969	3.75107	2.52059
634491.2	4255359.26	0.000495407	7.00031E-05	0.000222514	0.000150603	0.000938526	14.15248	2.04623	3.60916	2.44277
634488.5	4255384.09	0.000433407	6.79405E-05	0.000222314		0.000930320	13.97721	1.98594		
					0.000146036				3.47499	2.3687
634485.8	4255408.92	0.000482124	6.59789E-05	0.000206258	0.0001416	0.000895962	13.77303	1.9286	3.3455	2.29675
634483.1	4255433.76	0.000473595	6.411E-05	0.000198674	0.000137358	0.000873738	13.52938	1.87397	3.22249	2.22794
634480.4	4255458.59	0.000463451	6.23293E-05	0.000191551	0.000133336	0.000850668	13.23959	1.82192	3.10695	2.16271
634477.6	4255483.42	0.000451636	6.0628E-05	0.000184602	0.000129389	0.000826254	12.90206	1.77219	2.99423	2.09868
634474.9	4255508.25	0.000437931	5.90016E-05	0.000178033	0.000125622	0.000800588	12.51055	1.72465	2.88769	2.03758
634504.3	4255109.39	0.000457028	9.78712E-05	0.000333503	0.000211968	0.00110037	13.0561	2.86083	5.4094	3.43811
634501.5	4255134.22	0.000457074	9.42367E-05	0.000319198	0.000203879	0.001074387	13.0574	2.75459	5.17738	3.30691
634498.8	4255159.05	0.000456725	9.08269E-05	0.000305624	0.000196391	0.001049566	13.04745	2.65492	4.9572	3.18545
	4255183.88	0.000455986		0.000303024		0.001045500				
634496.1			8.76234E-05		0.000189351		13.02633	2.56128	4.74883	3.07126
634493.4	4255208.71	0.000454857	8.46087E-05	0.00028064	0.000182724	0.00100283	12.99407	2.47316	4.55197	2.96378
634490.6	4255233.55	0.000453266	8.17658E-05	0.000269179	0.000176442	0.000980652	12.94862	2.39006	4.36607	2.86188
634487.9	4255258.38	0.000451277	7.90833E-05	0.000258294	0.000170541	0.000959196	12.89182	2.31165	4.18952	2.76617
634485.2	4255283.21	0.000448827	7.6548E-05	0.000247961	0.000164895	0.000938232	12.82183	2.23754	4.02192	2.67459
634482.5	4255308.04	0.000445802	7.41484E-05	0.000238325	0.000159615	0.000917891	12.73541	2.1674	3.86562	2.58895
634479.8	4255332.87	0.000442196	7.18741E-05	0.000229216	0.0001546	0.000897887	12.63238	2.10092	3.71788	2.50761
634477	4255357.7	0.000437914	6.97157E-05	0.000220623	0.000149833	0.000878086	12.51005	2.03783	3.5785	2.43029
634474.3	4255382.54	0.000432788	6.76645E-05	0.000212508	0.000145313	0.000858274	12.36363	1.97787	3.44687	2.35697
634471.6	4255407.37	0.000432766	6.57145E-05	0.000212300	0.000149917	0.000838263	12.19169	1.92087	3.32172	2.28681
634468.9	4255432.2	0.000419733	6.38571E-05	0.000197432	0.000136834	0.000817856	11.99068	1.86658	3.20234	2.21944
634466.2	4255457.03	0.000411685	6.20847E-05	0.000190231	0.000132749	0.00079675	11.76076	1.81477	3.08554	2.15319
634463.4	4255481.86	0.000402339	6.03919E-05	0.000183395	0.000128841	0.000774968	11.49379	1.76529	2.97466	2.0898
634460.7	4255506.69	0.000391637	5.87748E-05	0.00017696	0.000125125	0.000752497	11.18805	1.71802	2.87028	2.02953
634454.6	4255103.94	0.00031447	9.61135E-05	0.000313746	0.000206141	0.000930471	8.9836	2.80945	5.08895	3.34359
634451.8	4255128.77	0.000314949	9.26311E-05	0.000301577	0.00019855	0.000907708	8.99728	2.70766	4.89157	3.22048
634449.1	4255153.6	0.000315166	8.93503E-05	0.000289885	0.000191493	0.000885895	9.00348	2.61176	4.70193	3.106
634446.4	4255178.43	0.000315119	8.62567E-05	0.000278696	0.000184877	0.000864948	9.00212	2.52133	4.52043	2.99869
		0.000313113		0.000278030	0.000134677					
634443.7	4255203.27		8.33347E-05			0.000844677	8.99244	2.43592	4.34708	2.89615
634440.9	4255228.1	0.000314213	8.05749E-05	0.000257554	0.000172507	0.000824849	8.97624	2.35525	4.17752	2.79805
634438.2	4255252.93	0.000313374	7.79626E-05	0.000247453	0.000166706	0.000805495	8.95227	2.27889	4.01367	2.70396
634435.5	4255277.76	0.000312179	7.54902E-05	0.000238239	0.000161364	0.000787272	8.91815	2.20662	3.86422	2.61731
634432.8	4255302.59	0.000310639	7.31464E-05	0.000229562	0.000156356	0.000769703	8.87414	2.13811	3.72349	2.53608
634430.1	4255327.42	0.000308724	7.09224E-05	0.000221324	0.000151605	0.000752576	8.81945	2.0731	3.58986	2.45903
634427.3	4255352.26	0.000306395	6.88081E-05	0.000213417	0.000147037	0.000735658	8.75292	2.0113	3.46161	2.38494
634424.6	4255377.09	0.000303691	6.67972E-05	0.000205732	0.000142592	0.000718812	8.67567	1.95252	3.33696	2.31283
634421.9	4255401.92	0.000300526	6.48828E-05	0.000198467	0.000138377	0.000702252	8.58524	1.89656	3.21912	2.24447
634419.2	4255426.75	0.000296878	6.30611E-05	0.000191781	0.000134464	0.000686184	8.48102	1.84331	3.11068	2.181
634416.5	4255451.58	0.000292791	6.13211E-05	0.000185219	0.000130618	0.000669949	8.36427	1.79245	3.00425	2.11862
634413.7	4255476.41	0.000288217	5.96602E-05	0.000179019	0.00012696	0.000653856	8.2336	1.7439	2.90368	2.05929
634411	4255501.25	0.000283152	5.80711E-05	0.000173011	0.000123399	0.000637632	8.0889	1.69745	2.80623	2.00152
634404.9	4255098.49	0.000231578	9.38292E-05	0.000288396	0.000198295	0.000812098	6.61559	2.74268	4.67777	3.21633
634402.1	4255123.32	0.000232433	9.06223E-05	0.000277918	0.000191097	0.000792071	6.64001	2.64894	4.50782	3.09959
634399.4	4255148.15	0.000233068	8.75731E-05	0.000268585	0.000184598	0.000773824	6.65815	2.55981	4.35643	2.99417
634396.7	4255172.99	0.000233492	8.4672E-05	0.000259514	0.000178445	0.000756123	6.67027	2.47501	4.2093	2.89437
634394	4255197.82	0.000233726	8.19146E-05	0.000250721	0.000172662	0.000739024	6.67695	2.39441	4.06669	2.80057
634391.2	4255222.65	0.000233720	7.92924E-05	0.000230721	0.000172002	0.000733024	6.67772	2.31776	3.92889	2.71174
634388.5	4255247.48	0.000233564	7.67984E-05	0.000234041	0.000162	0.000706403	6.67231	2.24486	3.79614	2.62763
634385.8	4255272.31	0.000233142	7.44249E-05	0.000226175	0.000157071	0.000690813	6.66026	2.17548	3.66855	2.54769
634383.1	4255297.14	0.000232463	7.21656E-05	0.000218625	0.00015238	0.000675633	6.64085	2.10944	3.54608	2.4716
634380.4	4255321.98	0.000231566	7.00113E-05	0.000211108	0.000147761	0.000660447	6.61525	2.04647	3.42416	2.39668
634377.6	4255346.81	0.000230411	6.7959E-05	0.000203934	0.000143383	0.000645687	6.58224	1.98648	3.3078	2.32566
634374.9	4255371.64	0.00022899	6.60042E-05	0.000197287	0.000139302	0.000631584	6.54166	1.92934	3.19999	2.25947
634372.2	4255396.47	0.000227337	6.4139E-05	0.000190931	0.000135398	0.000617805	6.49442	1.87482	3.0969	2.19615
634369.5	4255421.3	0.000225462	6.23543E-05	0.000184518	0.000131491	0.000603825	6.44085	1.82265	2.99287	2.13278
634366.7	4255446.14	0.000223304	6.06523E-05	0.000178726	0.000131131	0.000590611	6.37922	1.7729	2.89893	2.07499
634364	4255470.97	0.000220929	5.90232E-05	0.000172988	0.000124406	0.000577346	6.31136	1.72528	2.80585	2.01786
634361.3	4255495.8	0.000218248	5.74652E-05	0.000167552	0.000121054	0.00056432	6.23479	1.67974	2.71769	1.96349
634355.2	4255093.04	0.00017738	9.03992E-05	0.000258387	0.000187894	0.00071406	5.06728	2.64242	4.19102	3.04763
634352.4	4255117.87	0.000178419	8.76384E-05	0.000251541	0.000181918	0.000699516	5.09696	2.56172	4.07999	2.9507
634349.7	4255142.71	0.000179315	8.4969E-05	0.000244659	0.000176246	0.000685189	5.12257	2.48369	3.96836	2.8587
634347	4255167.54	0.000180055	8.23946E-05	0.000237798	0.000170836	0.000671083	5.14369	2.40844	3.85707	2.77095
634344.3	4255192.37	0.000180634	7.99147E-05	0.000231004	0.000165729	0.00065728	5.16023	2.33595	3.74687	2.68811
634341.5	4255217.2	0.000181046	7.75291E-05	0.000224245	0.000160778	0.000643598	5.172	2.26622	3.63725	2.60781
634338.8	4255242.03	0.000181284	7.52367E-05	0.000224243	0.000156072	0.000630244	5.1788	2.19921	3.5303	2.53148
634336.1	4255266.87	0.00018134	7.30345E-05	0.000211194	0.000151565	0.000617134	5.18042	2.13484	3.42556	2.45837
634333.4	4255291.7	0.000181233	7.0921E-05	0.000204705	0.000147151	0.00060401	5.17736	2.07306	3.32031	2.38678
634330.7	4255316.53	0.000180948	6.88943E-05	0.000198522	0.000142973	0.000591338	5.16922	2.01382	3.22002	2.31902
634327.9	4255341.36	0.000180495	6.69532E-05	0.000192705	0.000139069	0.000579221	5.15626	1.95708	3.12566	2.25569
634325.2	4255366.19	0.000179891	6.50918E-05	0.00018706	0.000135323	0.000567367	5.13902	1.90267	3.03411	2.19494
634322.5	4255391.02	0.000179141	6.33023E-05	0.000181226	0.000131519	0.000555188	5.11758	1.85036	2.93948	2.13323
634319.8	4255415.86	0.000178218	6.159E-05	0.000175937	0.000128042	0.000543787	5.09121	1.80031	2.85369	2.07684
634317	4255440.69	0.000173213	5.99499E-05	0.0001709	0.000124741	0.000532743	5.06076	1.75237	2.77199	2.0233
634314.3	4255465.52	0.000177132			0.000124741		5.02595	1.70632	2.6908	1.97047
			5.83745E-05	0.000165894		0.000521686				
634311.6	4255490.35	0.000174512	5.68607E-05	0.000160962	0.000118286	0.000510621	4.98535	1.66207	2.61079	1.9186
634305.4	4255087.6	0.00013942	8.55803E-05	0.000227972	0.000175548	0.00062852	3.98288	2.50156	3.69769	2.84738
634302.7	4255112.43	0.000140553	8.3372E-05	0.000222996	0.000170438	0.000617358	4.01522	2.43701	3.61699	2.76449

634300	4255137.26	0.000141565	8.11982E-05	0.000218108	0.000165676	0.000606547	4.04413	2.37347	3.53771	2.68725
634297.3	4255162.09	0.000142454	7.90649E-05	0.000213323	0.000161151	0.000595993	4.06954	2.31111	3.46009	2.61387
634294.6	4255186.92	0.000143215	7.69749E-05	0.000208469	0.000156791	0.00058545	4.09127	2.25002	3.38136	2.54315
634291.8	4255211.75	0.000143845	7.49329E-05	0.000203584	0.000152622	0.000574985	4.10928	2.19033	3.30213	2.47553
634289.1	4255236.59	0.00014434	7.29408E-05	0.000198695	0.000148576	0.000564552	4.12342	2.1321	3.22283	2.4099
634286.4	4255261.42	0.000144709	7.10041E-05	0.000193837	0.000144687	0.000554237	4.13397	2.07549	3.14403	2.34681
634283.7	4255286.25	0.000144951	6.91229E-05	0.000189029	0.000140946	0.000544049	4.14088	2.0205	3.06604	2.28614
634281	4255311.08	0.000145073	6.72984E-05	0.000184234	0.000137304	0.00053391	4.14437	1.96717	2.98827	2.22707
634278.2	4255335.91	0.000145087	6.55311E-05	0.000179525	0.000133793	0.000523936	4.14475	1.91551	2.91188	2.17012
634275.5	4255360.74	0.000144984	6.38175E-05	0.000174631	0.000130254	0.000513686	4.14181	1.86542	2.83251	2.11271
634272.8	4255385.58	0.000144775	6.21647E-05	0.000170134	0.000126998	0.000504072	4.13585	1.81711	2.75956	2.05991
634270.1	4255410.41	0.000144454	6.05681E-05	0.000165689	0.00012382	0.000494531	4.12666	1.77044	2.68747	2.00836
634267.3	4255435.24	0.00014402	5.90249E-05	0.000161255	0.000120696	0.000484995	4.11427	1.72533	2.61555	1.95768
634264.6	4255460.07	0.000143474	5.75374E-05	0.000157028	0.000117727	0.000475766	4.09867	1.68185	2.54699	1.90953
634261.9	4255484.9	0.0001428	5.61053E-05	0.000153034	0.000114926	0.000466865	4.07941	1.63999	2.48221	1.86409
634206	4255076.7	9.11781E-05	7.32583E-05	0.000171705	0.000147364	0.000483505	2.60472	2.14138	2.78504	2.39024
634203.3	4255101.53	9.21715E-05	7.20236E-05	0.000169946	0.000144446	0.000478586	2.6331	2.10529	2.75651	2.3429
634200.6	4255126.36	9.3109E-05	7.07855E-05	0.000168156	0.000141648	0.000473698	2.65988	2.0691	2.72748	2.29752
634197.9	4255151.19	9.39813E-05	6.95406E-05	0.000166216	0.000138865	0.000468603	2.6848	2.03271	2.69601	2.25239
634195.2	4255176.03	9.47944E-05	6.82909E-05	0.000164151	0.000136118	0.000463354	2.70803	1.99618	2.66252	2.20783
634192.4	4255200.86	9.55421E-05	6.70364E-05	0.000161939	0.000133393	0.000457911	2.72939	1.95951	2.62665	2.16363
634189.7	4255225.69	9.62272E-05	6.57784E-05	0.000159632	0.000130704	0.000452342	2.74896	1.92274	2.58923	2.12002
634187	4255250.52	9.68524E-05	6.45195E-05	0.000157227	0.000128052	0.000446651	2.76682	1.88594	2.55022	2.07699
634184.3	4255275.35	9.74209E-05	6.32615E-05	0.000154757	0.000125441	0.00044088	2.78306	1.84917	2.51015	2.03464
634181.5	4255300.19	9.79305E-05	6.20063E-05	0.000152225	0.000122873	0.000435035	2.79762	1.81248	2.46909	1.99299
634178.8	4255325.02	9.83828E-05	6.0759E-05	0.000149656	0.00012036	0.000429158	2.81054	1.77602	2.42742	1.95223
634176.1	4255349.85	9.87693E-05	5.95196E-05	0.000146993	0.000117852	0.000423134	2.82158	1.73979	2.38422	1.91155
634173.4	4255374.68	9.90937E-05	5.82921E-05	0.000144325	0.000115403	0.000417113	2.83085	1.70391	2.34094	1.87183
634170.7	4255399.51	9.93612E-05	5.7081E-05	0.000141728	0.000113057	0.000411228	2.83849	1.66851	2.29883	1.83378
634167.9	4255424.34	9.95621E-05	5.58857E-05	0.000139123	0.000110756	0.000405327	2.84423	1.63357	2.25657	1.79646
634165.2	4255449.18	9.96976E-05	5.47092E-05	0.000136523	0.000108505	0.000399435	2.8481	1.59918	2.21439	1.75995
634162.5	4255474.01	9.97532E-05	5.35535E-05	0.000133931	0.000106304	0.000393542	2.84969	1.5654	2.17235	1.72425
634106.6	4255065.8	6.37839E-05	6.09441E-05	0.000130253	0.000119779	0.00037476	1.82214	1.78143	2.1127	1.94281
634103.9	4255090.64	6.44959E-05	6.02308E-05	0.000129642	0.000118392	0.000372761	1.84248	1.76058	2.10279	1.92032
634101.2	4255115.47	6.51845E-05	5.95189E-05	0.000128956	0.00011698	0.000370639	1.86215	1.73977	2.09166	1.89741
634098.5	4255140.3	6.58506E-05	5.88073E-05	0.000128198	0.000115532	0.000368389	1.88118	1.71897	2.07937	1.87393
634095.8	4255165.13	6.64954E-05	5.80947E-05	0.000127373	0.000114061	0.000366024	1.8996	1.69814	2.06598	1.85006
634093	4255189.96	6.71202E-05	5.738E-05	0.00012648	0.000112564	0.000363544	1.91745	1.67725	2.0515	1.82578
634090.3	4255214.79	6.77244E-05	5.66609E-05	0.00012552	0.000111049	0.000360954	1.93471	1.65623	2.03593	1.80121
634087.6	4255239.63	6.83115E-05	5.5938E-05	0.000124502	0.000109515	0.000358267	1.95148	1.6351	2.01942	1.77633
634084.9	4255264.46	6.88764E-05	5.52093E-05	0.000123425	0.000107971	0.000355482	1.96762	1.6138	2.00195	1.75129
634082.1	4255289.29	6.94162E-05	5.44745E-05	0.000122291	0.000106416	0.000352598	1.98304	1.59232	1.98356	1.72607
634079.4	4255314.12	6.99259E-05	5.37311E-05	0.000121036	0.000104809	0.000349502	1.9976	1.57059	1.9632	1.7
634076.7	4255338.95	7.04012E-05	5.29771E-05	0.000119609	0.000103115	0.000346103	2.01118	1.54855	1.94006	1.67252
634074	4255363.79	7.08535E-05	5.222E-05	0.000118302	0.000101534	0.00034291	2.0241	1.52642	1.91885	1.64688
634071.3	4255388.62	7.12781E-05	5.14581E-05	0.000116981	9.99762E-05	0.000339694	2.03623	1.50415	1.89743	1.62161
634068.5	4255413.45	7.16772E-05	5.06949E-05	0.000115776	9.85274E-05	0.000336675	2.04763	1.48184	1.87788	1.59811
634065.8	4255438.28	7.20339E-05	4.99252E-05	0.000114474	9.70428E-05	0.000333476	2.05782	1.45934	1.85676	1.57403
634063.1	4255463.11	7.23419E-05	4.91486E-05	0.000113036	9.54984E-05	0.000330025	2.06662	1.43664	1.83344	1.54898
634007.2	4255054.91	4.72801E-05	5.0452E-05	0.000102366	9.70823E-05	0.000297181	1.35067	1.47474	1.66038	1.57467
634004.5	4255079.74	4.77975E-05	5.00274E-05	0.000102117	9.63979E-05	0.00029634	1.36545	1.46233	1.65634	1.56357
634001.8	4255104.57	4.82984E-05	4.95971E-05	0.000101712	9.56254E-05	0.000295233	1.37976	1.44975	1.64976	1.55104
633999.1	4255129.4	4.87825E-05	4.91612E-05	0.000101164	9.47654E-05	0.000293873	1.39359	1.43701	1.64088	1.53709
633996.3	4255154.24	4.92649E-05	4.87298E-05	0.00010075	9.40181E-05	0.000292763	1.40737	1.4244	1.63416	1.52497
633993.6	4255179.07	4.97382E-05	4.82981E-05	0.000100296	9.32475E-05	0.000291579	1.42089	1.41178	1.62679	1.51247
633990.9	4255203.9	5.02027E-05	4.78657E-05	9.98098E-05	9.24552E-05	0.000290333	1.43416	1.39914	1.61891	1.49962
633988.2	4255228.73	5.06578E-05	4.74326E-05	9.92925E-05	9.16396E-05	0.000289022	1.44716	1.38648	1.61052	1.48639
633985.5	4255253.56	5.1102E-05	4.69991E-05	9.87475E-05	9.08023E-05	0.000287651	1.45985	1.37381	1.60168	1.47281
633982.7	4255278.39	5.15339E-05	4.65639E-05	9.81754E-05	8.99429E-05	0.000286216	1.47219	1.36109	1.5924	1.45887
633980	4255303.23	5.19568E-05	4.61274E-05	9.75804E-05	8.90644E-05	0.000284729	1.48427	1.34833	1.58275	1.44462
633977.3	4255328.06	5.23684E-05	4.56885E-05	9.69608E-05	8.81673E-05	0.000283185	1.49603	1.3355	1.5727	1.43007
633974.6	4255352.89	5.27679E-05	4.52461E-05	9.63165E-05	8.72536E-05	0.000281584	1.50744	1.32257	1.56225	1.41525
633971.9	4255377.72	5.31547E-05	4.48E-05	9.5647E-05	8.63239E-05	0.000279926	1.51849	1.30953	1.55139	1.40017
633969.1	4255402.55	5.35257E-05	4.43495E-05	9.49522E-05	8.53794E-05	0.000278207	1.52909	1.29636	1.54012	1.38485
633966.4	4255427.38	5.38768E-05	4.38928E-05	9.42296E-05	8.44213E-05	0.00027642	1.53912	1.28301	1.5284	1.36931
633963.7	4255452.22	5.42087E-05	4.34306E-05	9.34855E-05	8.34528E-05	0.000274577	1.5486	1.2695	1.51633	1.3536
633907.8	4255044.01	3.64601E-05	4.1785E-05	8.23769E-05	7.97813E-05	0.000240403	1.04157	1.2214	1.33615	1.29405
633905.1	4255068.84	3.68798E-05	4.15463E-05	8.22949E-05	7.92573E-05	0.000239978	1.05356	1.21442	1.33482	1.28555
633902.4	4255093.68	3.72943E-05	4.1304E-05	8.22672E-05	7.88356E-05	0.000239701	1.0654	1.20734	1.33437	1.27871
633899.7	4255118.51	3.76986E-05	4.10553E-05	8.21617E-05	7.84046E-05	0.00023932	1.07695	1.20007	1.33266	1.27172
633896.9	4255143.34	3.80892E-05	4.07977E-05	8.18837E-05	7.78812E-05	0.000238652	1.08811	1.19254	1.32815	1.26323
633894.2	4255168.17	3.84704E-05	4.0536E-05	8.15804E-05	7.73714E-05	0.000237958	1.099	1.18489	1.32323	1.25496
633891.5 633888.8	4255193 4255217.84	3.88446E-05 3.9208E-05	4.02736E-05 4.00081E-05	8.13103E-05 8.10107E-05	7.69114E-05 7.6446E-05	0.00023734 0.000236673	1.10969 1.12007	1.17722 1.16946	1.31885	1.2475
633886.1	4255217.84	3.95622E-05	4.00081E-05 3.97413E-05	8.10107E-05 8.06839E-05	7.5446E-05 7.59712E-05	0.000235959	1.13019	1.16946	1.31399 1.30869	1.23995 1.23225
633883.3	4255242.67	3.95622E-05 3.99074E-05	3.97413E-05 3.94727E-05	8.08331E-05	7.59712E-05 7.54854E-05	0.000235959	1.13019	1.15166	1.30869	1.23225
633883.3	4255267.5	4.02438E-05	3.94727E-05 3.92028E-05	7.99651E-05	7.54854E-05 7.49873E-05	0.000235199	1.14966	1.15381	1.303	1.22437
633877.9	4255292.33	4.02438E-05 4.05718E-05	3.89322E-05	7.95816E-05	7.49873E-05 7.4478E-05	0.000234399	1.15903	1.14592	1.29081	1.21629
633877.9	4255317.16	4.05718E-05 4.08907E-05	3.89322E-05 3.86602E-05	7.95816E-05 7.91833E-05	7.4478E-05 7.39546E-05	0.000233564	1.16814	1.13801	1.28435	1.20803
633872.4	4255366.83	4.08907E-05 4.12015E-05	3.83879E-05	7.87764E-05	7.342E-05	0.000232689	1.17702	1.13006	1.27775	1.19954
633869.7	4255391.66	4.12013E-03 4.15029E-05	3.81142E-05	7.83578E-05	7.28738E-05	0.000231786	1.18563	1.1221	1.27775	1.18201
/	+233331.00				7.23263E-05	0.000230849	1.19394	1.1141	1.26428	1.17313
	4255/16 /0	T 1 /dzxr-nr	₹ /X/III / F-U E	/ / ЧДПЕ	, , , , , , , U,) ["U,]	0.000223300	1.13334	1.10003	1.40440	1.1/313
633867	4255416.49 4255441.32	4.17938E-05 4.20714F-05	3.78402E-05 3.75631E-05	7.7946E-05 7.74984F-05			1 20187	1.09799	1.25702	1 16374
633867 633864.3	4255441.32	4.20714E-05	3.75631E-05	7.74984E-05	7.17474E-05	0.00022888	1.20187 35.08397	1.09799 1.74072	1.25702 2.91686	1.16374 2.04762
633867 633864.3 634558.8	4255441.32 4255531.82	4.20714E-05 0.001228112	3.75631E-05 5.95514E-05	7.74984E-05 0.000179832	7.17474E-05 0.000126241	0.00022888 0.001593736	35.08397	1.74072	2.91686	2.04762
633867 633864.3 634558.8 634573	4255441.32 4255531.82 4255533.08	4.20714E-05 0.001228112 0.001460235	3.75631E-05 5.95514E-05 5.97956E-05	7.74984E-05 0.000179832 0.000180242	7.17474E-05 0.000126241 0.000126469	0.00022888 0.001593736 0.001826741	35.08397 41.7151	1.74072 1.74786	2.91686 2.92351	2.04762 2.05132
633867 633864.3 634558.8	4255441.32 4255531.82	4.20714E-05 0.001228112	3.75631E-05 5.95514E-05	7.74984E-05 0.000179832	7.17474E-05 0.000126241	0.00022888 0.001593736	35.08397	1.74072	2.91686	2.04762

634571.7	4255547.31	0.001135619	5.88921E-05	0.00017677	0.000124486	0.001495767	32.44167	1.72145	2.8672	2.01916
634585.8	4255548.57	0.001129608	5.91193E-05	0.000177091	0.000124675	0.001490494	32.26996	1.72809	2.87241	2.02223
634546.5	4255555.1	0.000844639	5.78644E-05	0.000173705	0.000122738	0.001198946	24.12913	1.69141	2.81748	1.99081
634523.8	4255534.14	0.00069917	5.8588E-05	0.000177209	0.000124804	0.001059771	19.97347	1.71256	2.87433	2.02431
634570.4	4255561.54	0.000934426	5.80116E-05	0.000173406	0.000122554	0.001288398	26.69412	1.69571	2.81264	1.98782
634584.6	4255562.8	0.000936031	5.82339E-05	0.000173716	0.000122738	0.001290719	26.73997	1.70221	2.81766	1.99081
634545.3	4255569.33	0.000749662	5.70082E-05	0.000170437	0.000120851	0.001097958	21.41589	1.66638	2.76448	1.9602
634525.7	4255558.98	0.000660354	5.71665E-05	0.000171651	0.000121588	0.001010759	18.86459	1.67101	2.78417	1.97215
634512.8	4255543.19	0.000602786	5.77902E-05	0.000171031	0.000121981	0.000957506	17.22001	1.68924	2.82144	1.99475
634569.2	4255575.77	0.000795961	5.71532E-05	0.000179343	0.000122561	0.001143927	22.73854	1.67062	2.75971	1.95725
634583.3	4255577.03	0.000799211	5.73704E-05	0.000170143	0.000120849	0.001147872	22.83137	1.67697	2.76456	1.96017
634541.5	4255582.27	0.000665997	5.61929E-05	0.000167421	0.000119103	0.001008714	19.0258	1.64255	2.71556	1.93185
634529.3	4255575.8	0.000633401	5.6289E-05	0.000168167	0.000119556	0.000977413	18.09461	1.64536	2.72766	1.93919
634517.1	4255569.33	0.000584243	5.63828E-05	0.00016875	0.000119928	0.000929304	16.6903	1.6481	2.73712	1.94523
634497	4255536.33	0.000520604	5.78248E-05	0.000173738	0.00012296	0.000875128	14.8723	1.69025	2.81803	1.99441
634493	4255523.07	0.000509311	5.85223E-05	0.000176307	0.000124482	0.000868623	14.5497	1.71064	2.85969	2.0191
634553.8	4255588.74	0.000673753	5.6092E-05	0.000166624	0.000118629	0.001015098	19.24738	1.6396	2.70263	1.92416
634567.9	4255590	0.000694589	5.63161E-05	0.000166976	0.000118832	0.001036714	19.8426	1.64615	2.70835	1.92745
634582	4255591.26	0.000698038	5.65289E-05	0.000167266	0.000119008	0.00104084	19.94112	1.65237	2.71304	1.9303
634540.8	4255596.75	0.000601706	5.53742E-05	0.000164311	0.000117288	0.000938679	17.18917	1.61862	2.66512	1.9024
634517.3	4255584.33	0.000553431	5.55511E-05	0.000165585	0.000117233	0.000892643	15.81007	1.62379	2.68578	1.9152
		0.000333431		0.000163383		0.000832043				
634490	4255559.18		5.6352E-05		0.00011989		13.46959	1.6472	2.73223	1.94461
634482.5	4255533.71	0.000458257	5.76469E-05	0.000173023	0.000122635	0.000811562	13.0912	1.68505	2.80643	1.98913
634566.6	4255604.23	0.000616903	5.54991E-05	0.000163902	0.000117039	0.000953343	17.6233	1.62227	2.65849	1.89837
634580.8	4255605.49	0.000620173	5.57075E-05	0.000164182	0.000117211	0.000957273	17.71672	1.62836	2.66303	1.90115
634539.8	4255611.16	0.000546904	5.45761E-05	0.000161298	0.000115521	0.000878299	15.62362	1.59529	2.61625	1.87374
634517	4255599.08	0.000519574	5.47434E-05	0.000162512	0.000116272	0.000853101	14.84286	1.60018	2.63593	1.88593
634494.2	4255587	0.000459298	5.4908E-05	0.000163358	0.000116851	0.000794415	13.12094	1.60499	2.64966	1.89532
634479.1	4255568.58	0.000425456	5.55901E-05	0.000165678	0.000118314	0.000765038	12.15417	1.62493	2.68729	1.91904
634471.7	4255543.83	0.000415654	5.68227E-05	0.000170019	0.000120936	0.000763432	11.87416	1.66096	2.7577	1.96158
634565.4	4255618.45	0.000555329	5.47023E-05	0.00016092	0.000115291	0.000886242	15.86429	1.59898	2.61012	1.87001
634579.5	4255619.71	0.000558337	5.49069E-05	0.00016119	0.000115458	0.000889892	15.95024	1.60496	2.6145	1.87272
634535.4	4255660.96	0.000338337	5.19385E-05	0.00010113	0.000119498	0.000724492	11.75179	1.51819	2.45703	1.77935
634512.6	4255648.88	0.000409482	5.2089E-05	0.000152671	0.000110437	0.00072468	11.69784	1.52259	2.47632	1.79129
634489.7	4255636.8	0.00038859	5.22375E-05	0.00015367	0.000111089	0.000705586	11.101	1.52693	2.49252	1.80186
634466.9	4255624.72	0.000353965	5.23928E-05	0.000154185	0.000111501	0.000672044	10.11185	1.53147	2.50088	1.80854
634440.4	4255600.27	0.000316116	5.31235E-05	0.000156349	0.000112986	0.000638574	9.0306	1.55283	2.53598	1.83262
634433.1	4255575.51	0.000311102	5.42833E-05	0.000160402	0.000115498	0.000641286	8.88737	1.58673	2.60172	1.87338
634425.7	4255550.76	0.000303454	5.54878E-05	0.000164279	0.000117931	0.000641152	8.66888	1.62194	2.6646	1.91284
634418.4	4255526	0.000293832	5.67495E-05	0.00016847	0.000120558	0.000639609	8.39402	1.65882	2.73257	1.95544
634560.9	4255668.26	0.000412333	5.20582E-05	0.000151127	0.000109487	0.000725005	11.77929	1.52169	2.45127	1.77587
634575.1	4255669.52	0.000414561	5.22487E-05	0.000151369	0.000109641	0.00072782	11.84294	1.52726	2.4552	1.77837
634529.9	4255710.21	0.000328205	4.9515E-05	0.000142635	0.000104371	0.000624726	9.37597	1.44735	2.31354	1.69289
634517.5	4255703.62	0.000330396	4.95895E-05	0.000112035	0.000104749	0.000627981	9.43855	1.44953	2.32344	1.69903
634505	4255697.04	0.000330764	4.96621E-05	0.000143817	0.000105111	0.000629354	9.44906	1.45165	2.33271	1.70489
634492.6	4255690.45	0.000328562	4.97346E-05	0.000144352	0.000105456	0.000628105	9.38617	1.45377	2.34139	1.71049
634480.1	4255683.86	0.000323216	4.98085E-05	0.000144802	0.00010576	0.000623587	9.23343	1.45593	2.34869	1.71542
634467.7	4255677.27	0.000314634	4.98848E-05	0.000145153	0.000106014	0.000615685	8.98826	1.45816	2.35437	1.71955
634455.2	4255670.68	0.00030341	4.99652E-05	0.000145465	0.000106255	0.000605095	8.66763	1.46051	2.35944	1.72345
634442.8	4255664.1	0.000290569	5.00504E-05	0.000145773	0.000106501	0.000592893	8.30079	1.463	2.36443	1.72744
634430.3	4255657.51	0.000277182	5.01417E-05	0.000145981	0.000106699	0.000580004	7.91836	1.46567	2.3678	1.73066
634417.9	4255650.92	0.000263915	5.02396E-05	0.000146111	0.000106865	0.00056713	7.53936	1.46853	2.36991	1.73334
634401.4	4255630.83	0.00024998	5.09238E-05	0.000148105	0.000108235	0.000557243	7.14127	1.48853	2.40225	1.75557
634397.4	4255617.33	0.000248413	5.15139E-05	0.000149921	0.000109409	0.000559256	7.0965	1.50578	2.43171	1.77461
634393.4	4255603.82	0.000246383	5.21184E-05	0.000151792	0.000110619	0.000560912	7.03851	1.52345	2.46206	1.79423
634389.4	4255590.32	0.000243892	5.27376E-05	0.000151752	0.000111904	0.000562321	6.96737	1.54155	2.49442	1.81507
		0.000243892								
634385.4	4255576.82		5.33709E-05	0.000155796	0.000113204	0.000563367	6.88466	1.56006	2.527	1.83616
634381.3	4255563.31	0.000237764	5.40161E-05	0.000157672	0.000114439	0.000563891	6.7923	1.57892	2.55743	1.85619
634377.3	4255549.81	0.000234231	5.46746E-05	0.000159521	0.000115669	0.000564095	6.69136	1.59817	2.58743	1.87614
634373.3	4255536.31	0.000230451	5.53493E-05	0.000161483	0.000116971	0.000564254	6.58339	1.61789	2.61924	1.89726
634369.3	4255522.81	0.000226504	5.604E-05	0.000163508	0.00011832	0.000564373	6.47063	1.63808	2.6521	1.91915
634365.3	4255509.3	0.000222427	5.67454E-05	0.000165534	0.000119683	0.00056439	6.35416	1.6587	2.68496	1.94125
634542.4	4255716.8	0.000324826	4.94363E-05	0.000141991	0.000103977	0.000620231	9.27944	1.44505	2.30309	1.68651
634556.5	4255718.06	0.000327859	4.96224E-05	0.000142253	0.00010414	0.000623874	9.36608	1.45049	2.30733	1.68914
634570.6	4255719.32	0.000329586	4.98003E-05	0.000142471	0.000104282	0.000626139	9.4154	1.45569	2.31088	1.69145
634525.7	4255760.13	0.000271951	4.7267E-05	0.000134525	9.94066E-05	0.00055315	7.76893	1.38164	2.18199	1.61237
634513.5	4255753.66	0.000273959	4.73337E-05	0.000135078	9.97524E-05	0.000556123	7.8263	1.38359	2.19096	1.61798
634501.2	4255747.19	0.000275332	4.73983E-05	0.0001356	0.000100084	0.000558415	7.86553	1.38548	2.19943	1.62336
634489	4255740.72	0.000275332	4.74623E-05	0.00013609	0.000100004	0.000559681	7.8768	1.38735	2.20738	1.62851
634476.8	4255734.25	0.000273727	4.75277E-05	0.000136549	0.000100402	0.000559498	7.8479	1.38733	2.21482	1.63344
634464.5	4255727.78	0.000271924	4.75951E-05	0.000136973	0.000100994	0.000557485	7.76815	1.39123	2.22169	1.63812
634452.3	4255721.31	0.000267205	4.76655E-05	0.00013726	0.000101211	0.000553342	7.63335	1.39329	2.22635	1.64164
634440.1	4255714.84	0.000260611	4.77401E-05	0.000137506	0.000101411	0.000547268	7.44497	1.39547	2.23034	1.64488
634427.9	4255708.37	0.000252542	4.78198E-05	0.000137725	0.000101603	0.00053969	7.21448	1.3978	2.2339	1.64799
634415.6	4255701.9	0.000243541	4.79047E-05	0.000137889	0.00010177	0.000531104	6.95732	1.40028	2.23655	1.6507
634403.4	4255695.43	0.000234134	4.7996E-05	0.000137966	0.000101897	0.000521993	6.6886	1.40295	2.23781	1.65276
634391.2	4255688.96	0.000224679	4.80945E-05	0.000138118	0.000102075	0.000512967	6.4185	1.40583	2.24027	1.65566
634379	4255682.49	0.000215433	4.82006E-05	0.000138225	0.000102239	0.000504097	6.15436	1.40893	2.242	1.65831
634362.8	4255662.76	0.000205605	4.88489E-05	0.000139836	0.000103423	0.000497713	5.87361	1.42788	2.26814	1.67751
634358.8	4255649.49	0.000204464	4.93966E-05	0.000141416	0.000104481	0.000499757	5.84101	1.44389	2.29376	1.69467
634354.9	4255636.23	0.00020306	4.99563E-05	0.000141410	0.000105569	0.000501622	5.80089	1.46025	2.32006	1.71232
634351	4255622.97	0.00020300	5.05279E-05	0.000143037	0.000105309	0.000501022	5.75281	1.47696	2.34756	1.71232
634347	4255609.71	0.000199436	5.11116E-05	0.000146432	0.000107854	0.000504833	5.69736	1.49402	2.37512	1.74939
634343.1	4255596.45	0.000197271	5.17051E-05	0.000148024	0.00010895	0.000505951	5.63552	1.51137	2.40095	1.76717
634339.2	4255583.18	0.00019488	5.23093E-05	0.000149565	0.000110027	0.000506781	5.5672	1.52903	2.42593	1.78464
634335.2	4255569.92	0.000192301	5.29258E-05	0.000151171	0.000111153	0.00050755	5.49355	1.54705	2.45198	1.80289
634331.3	4255556.66	0.000189575	5.35553E-05	0.000152847	0.00011233	0.000508307	5.41565	1.56545	2.47917	1.82199

		0.00010570			0.000440544			4 50445	0.50540	
634327.4	4255543.4	0.00018673	5.41957E-05	0.000154513	0.000113514	0.000508952	5.33438	1.58417	2.50619	1.84119
634323.4	4255530.14	0.000183778	5.48471E-05	0.00015616	0.000114701	0.000509486	5.25005	1.60321	2.53291	1.86045
634319.5	4255516.87	0.000180747	5.5509E-05	0.000157788	0.000115896	0.00050994	5.16347	1.62256	2.55932	1.87982
634315.5	4255503.61	0.000177658	5.61806E-05	0.000159391	0.000117091	0.000510321	5.07524	1.64219	2.58532	1.89921
	4255766.6									
634537.9		0.000269481	4.71975E-05	0.000133946	9.9049E-05	0.000549673	7.69836	1.37961	2.1726	1.60657
634552	4255767.86	0.000271622	4.73717E-05	0.000134182	9.92E-05	0.000552375	7.75952	1.3847	2.17643	1.60902
634566.2	4255769.12	0.000273009	4.75383E-05	0.000134381	9.9332E-05	0.00055426	7.79916	1.38957	2.17965	1.61116
634521.4	4255810.01	0.000231566	4.51859E-05	0.00012713	9.48134E-05	0.000498696	6.61523	1.32081	2.06205	1.53787
634509.3	4255803.62	0.000233192	4.52455E-05	0.000127634	9.5131E-05	0.000501203	6.6617	1.32255	2.07022	1.54302
634497.2	4255797.22	0.000234545	4.53033E-05	0.000128113	9.54374E-05	0.000503399	6.70035	1.32424	2.07798	1.54799
634473.1	4255784.43	0.000235871	4.54193E-05	0.00012899	9.60126E-05	0.000506293	6.73822	1.32763	2.09221	1.55732
634461	4255778.04	0.000235423	4.54788E-05	0.000129363	9.62684E-05	0.000506533	6.72543	1.32937	2.09826	1.56147
634448.9	4255771.65	0.000233927	4.5541E-05	0.000129638	9.64719E-05	0.000505579	6.68269	1.33119	2.10273	1.56477
634424.7	4255758.86	0.000227093	4.56772E-05	0.000130157	9.68757E-05	0.000499803	6.48746	1.33517	2.11114	1.57132
	4255752.46	0.000227055		0.000130421	9.70897E-05	0.000495115	6.33768	1.3374		1.57479
634412.6			4.57535E-05						2.11543	
634400.5	4255746.07	0.000215691	4.58346E-05	0.000130637	9.72826E-05	0.000489445	6.16174	1.33977	2.11892	1.57792
634388.5	4255739.67	0.000208958	4.59215E-05	0.000130765	9.74324E-05	0.000483077	5.96939	1.34231	2.121	1.58035
634364.3	4255726.89	0.000194824	4.6112E-05	0.000130814	9.76365E-05	0.000469387	5.56562	1.34788	2.1218	1.58366
634352.2	4255720.49	0.000187804	4.6217E-05	0.000130846	9.77574E-05	0.000462625	5.36508	1.35095	2.12232	1.58562
634340.1	4255714.1	0.000180944	4.63265E-05	0.000130797	9.78418E-05	0.00045591	5.16911	1.35415	2.12152	1.58699
634324.2	4255694.6	0.000173551	4.69409E-05	0.000132032	9.88344E-05	0.000451358	4.95789	1.37211	2.14155	1.60309
634320.3	4255681.49	0.00017264	4.74514E-05	0.000133414	9.97968E-05	0.000453302	4.93188	1.38703	2.16397	1.6187
634316.4	4255668.39	0.000171556	4.79717E-05	0.000134829	0.000100784	0.000455142	4.90092	1.40224	2.18692	1.63472
634312.5	4255655.28	0.0001703	4.8502E-05	0.000136261	0.000101791	0.000456853	4.86502	1.41774	2.21014	1.65104
634308.6	4255642.17	0.000168871	4.90415E-05	0.000137669	0.000102791	0.000458372	4.8242	1.43351	2.23298	1.66726
634304.7	4255629.07	0.000167268	4.95882E-05	0.000138997	0.000103755	0.000459608	4.77842	1.44949	2.25452	1.6829
634300.8	4255615.96	0.000165516	5.01441E-05	0.000140313	0.000104722	0.000460695	4.72835	1.46574	2.27587	1.69859
634296.9	4255602.86	0.000163623	5.07089E-05	0.000141641	0.000105707	0.000461681	4.67429	1.48225	2.29741	1.71457
634293	4255589.75	0.000161613	5.12837E-05	0.000143024	0.000106738	0.000462658	4.61685	1.49905	2.31985	1.73128
634289.1	4255576.64	0.000151616	5.18666E-05	0.000144388	0.000107769	0.000463518	4.55634	1.51609	2.34197	1.74801
634285.2	4255563.54	0.000157284	5.24564E-05	0.000145727	0.0001088	0.000464267	4.49318	1.53333	2.36369	1.76473
634281.4	4255550.43	0.000154996	5.30534E-05	0.00014704	0.000109832	0.000464922	4.42783	1.55078	2.38499	1.78147
634277.5	4255537.33	0.000152645	5.36555E-05	0.00014832	0.00011086	0.000465481	4.36067	1.56838	2.40574	1.79815
634273.6	4255524.22	0.000150242	5.42634E-05	0.000149565	0.000111886	0.000465956	4.29203	1.58615	2.42594	1.81478
634269.7	4255511.12	0.000147796	5.48748E-05	0.000150768	0.000112906	0.000466345	4.22214	1.60402	2.44545	1.83133
634265.8	4255498.01	0.000145311	5.54892E-05	0.000151926	0.000113921	0.000466648	4.15117	1.62198	2.46424	1.84779
634533.5	4255816.4	0.0002297	4.51233E-05	0.000126605	9.44855E-05	0.000495913	6.56193	1.31898	2.05352	1.53255
634547.6	4255817.66	0.000231319	4.52865E-05	0.000126819	9.46254E-05	0.00049805	6.60817	1.32375	2.057	1.53482
634561.7	4255818.92	0.000232465	4.54425E-05	0.000127	9.47487E-05	0.000499657	6.64092	1.32831	2.05994	1.53682
634512.1	4255909.42	0.000177331	4.14573E-05	0.000114178	8.66038E-05	0.000419569	5.06587	1.21182	1.85196	1.40471
634499.7	4255902.83	0.000178377	4.15083E-05	0.000114619	8.68868E-05	0.000421391	5.09577	1.21331	1.85911	1.4093
634487.2	4255896.25	0.000179343	4.15572E-05	0.000115039	8.71593E-05	0.000423098	5.12335	1.21474	1.86593	1.41372
634474.8	4255889.66	0.00018024	4.16061E-05	0.000115441	8.74238E-05	0.000424711	5.14899	1.21617	1.87244	1.41801
634462.3	4255883.07	0.00018102	4.16557E-05	0.00011582	8.76772E-05	0.000426173	5.17128	1.21762	1.87859	1.42212
634449.9	4255876.48	0.000181591	4.17067E-05	0.000116177	8.79201E-05	0.000427395	5.18759	1.21911	1.88438	1.42606
634437.4	4255869.89	0.000181865	4.17597E-05	0.00011651	8.81531E-05	0.000428288	5.19542	1.22066	1.88979	1.42984
634425	4255863.31	0.00018172	4.18158E-05	0.000116762	8.83406E-05	0.000428638	5.19126	1.2223	1.89388	1.43288
634412.5	4255856.72	0.000181018	4.1876E-05	0.000116963	8.85015E-05	0.000428358	5.17122	1.22406	1.89713	1.43549
634400.1	4255850.13	0.000179638	4.19404E-05	0.000117166	8.86685E-05	0.000427413	5.1318	1.22594	1.90042	1.4382
		0.000173535								
634387.6	4255843.54		4.20105E-05	0.000117389	8.88541E-05	0.000425776	5.07135	1.22799	1.90405	1.44121
634375.2	4255836.95	0.000174688	4.20854E-05	0.000117581	8.90261E-05	0.000423381	4.99038	1.23018	1.90716	1.444
634362.7	4255830.37	0.000171217	4.21651E-05	0.000117659	8.91359E-05	0.000420177	4.89123	1.23251	1.90842	1.44578
634350.3	4255823.78	0.000167226	4.22503E-05	0.000117699	8.92308E-05	0.000416406	4.7772	1.235	1.90908	1.44732
634337.8	4255817.19	0.000162856	4.23413E-05	0.000117733	8.93288E-05	0.00041226	4.65238	1.23766	1.90963	1.44891
634325.4	4255810.6	0.000158257	4.24378E-05	0.000117773	8.94386E-05	0.000407906	4.52099	1.24048	1.91027	1.45069
634312.9	4255804.01	0.000153556	4.25387E-05	0.00011776	8.95261E-05	0.000403381	4.3867	1.24343	1.91006	1.45211
634300.5	4255797.43	0.000148847	4.26424E-05	0.000117622	8.95477E-05	0.000398659	4.25218	1.24646	1.90782	1.45246
634288	4255790.84	0.000144189	4.27488E-05	0.000117425	8.9544E-05	0.000393907	4.1191	1.24957	1.90463	1.4524
634275.6	4255784.25	0.000139614	4.28582E-05	0.000117236	8.95557E-05	0.000389264	3.98841	1.25277	1.90156	1.45259
634263.1	4255777.66	0.000135141	4.29687E-05	0.000117017	8.95607E-05	0.000384688	3.86064	1.256	1.89801	1.45267
634246.7	4255757.57	0.000133141	4.35336E-05	0.000117017	9.03319E-05	0.000384088	3.71805	1.27251	1.91038	1.46518
634242.7	4255744.07	0.000129437	4.39944E-05	0.00011879	9.11112E-05	0.000383333	3.69769	1.28598	1.92677	1.47782
634238.7	4255730.57	0.000128627	4.44617E-05	0.000119798	9.18979E-05	0.000384785	3.67454	1.29964	1.94312	1.49058
634234.7	4255717.06	0.000127723	4.49359E-05	0.000120836	9.27123E-05	0.000386207	3.64871	1.3135	1.95996	1.50379
634230.6	4255703.56	0.000126723	4.54155E-05	0.00012188	9.35403E-05	0.000387559	3.62015	1.32752	1.97689	1.51722
634226.6	4255690.06	0.00012563	4.59009E-05	0.000122943	9.43905E-05	0.000388864	3.58892	1.34171	1.99413	1.53101
		0.00012303				0.000388804				
634222.6	4255676.55		4.63925E-05	0.00012405	9.52795E-05		3.55509	1.35608	2.01209	1.54543
634218.6	4255663.05	0.000123169	4.68869E-05	0.000125093	9.61408E-05	0.00039129	3.51863	1.37053	2.029	1.5594
634214.6	4255649.55	0.000121811	4.73826E-05	0.000126042	9.69583E-05	0.000392193	3.47981	1.38502	2.04439	1.57266
634210.6	4255636.04	0.000120382	4.78817E-05	0.000126994	9.77913E-05	0.000393049	3.43899	1.39961	2.05984	1.58617
634206.6	4255622.54	0.00011888	4.83799E-05	0.000127833	9.85693E-05	0.000393663	3.3961	1.41417	2.07345	1.59879
634202.6	4255609.04	0.000117319	4.88786E-05	0.000127658	9.93535E-05	0.000333003	3.35151	1.42875	2.08683	1.61151
634198.6	4255595.54	0.000115705	4.93761E-05	0.000129413	0.000100111	0.000394605	3.30538	1.44329	2.09907	1.6238
634194.6	4255582.03	0.000114041	4.98701E-05	0.000130067	0.000100823	0.0003948	3.25784	1.45773	2.10968	1.63534
634190.6	4255568.53	0.000112337	5.03603E-05	0.000130704	0.00010154	0.000394941	3.20917	1.47206	2.12001	1.64698
634186.5	4255555.03	0.000110603	5.08471E-05	0.000131351	0.000102281	0.000395082	3.15965	1.48629	2.1305	1.659
634182.5	4255541.52	0.000110003	5.13268E-05	0.000131931	0.000102201	0.000335002	3.10933	1.50031	2.1401	1.67076
634178.5	4255528.02	0.000107061	5.17979E-05	0.000132474	0.000103713	0.000395046	3.05844	1.51408	2.14873	1.68222
634174.5	4255514.52	0.000105255	5.2258E-05	0.000132942	0.000104397	0.000394852	3.00687	1.52753	2.15631	1.69331
634170.5	4255501.01	0.000103433	5.27055E-05	0.000133343	0.000105058	0.000394539	2.9548	1.54061	2.16282	1.70404
634166.5	4255487.51	0.000101597	5.31379E-05	0.000133673	0.000105695	0.000394103	2.90236	1.55325	2.16817	1.71437
634524.6	4255916.01	0.000176168	4.14039E-05	0.000113718	8.6311E-05	0.0004176	5.03265	1.21026	1.8445	1.39996
634538.7	4255917.27	0.000177222	4.1548E-05	0.000113897	8.6433E-05	0.0004191	5.06278	1.21447	1.8474	1.40194
634552.8	4255918.53	0.00017805	4.16862E-05	0.00011405	8.65415E-05	0.000420328	5.08643	1.21851	1.84989	1.4037
634503.5	4256009.14	0.000142501	3.82128E-05	0.000103195	7.94663E-05	0.000363375	4.07087	1.11698	1.67382	1.28894
634491.2	4256002.67	0.000143188	3.82545E-05	0.000103567	7.97086E-05	0.000364718	4.09052	1.1182	1.67985	1.29287
634479	4255996.2	0.000143845	3.82949E-05	0.000103924	7.99441E-05	0.000366009	4.10929	1.11938	1.68565	1.29669
-	- '	-					-	-	-	

624466.0	4255000 72	0.000144476	2 022405 05	0.000104367	0.047465.05	0.000267240	4.42720	4 42055	1 (012	1 20020
634466.8	4255989.73	0.000144476	3.83349E-05	0.000104267	8.01716E-05	0.000367249	4.12729	1.12055	1.6912	1.30038
634454.6	4255983.26	0.000145077	3.83749E-05	0.000104593	8.03911E-05	0.000368436	4.14447	1.12172	1.69649	1.30394
634442.3	4255976.79	0.000145651	3.8416E-05	0.000104903	8.06032E-05	0.000369574	4.16088	1.12292	1.70153	1.30738
634430.1	4255970.32	0.00014618	3.84587E-05	0.000105177	8.07949E-05	0.000370611	4.17598	1.12417	1.70597	1.31049
634417.9	4255963.85	0.00014662	3.85039E-05	0.000105391	8.09521E-05	0.000371467	4.18855	1.12549	1.70944	1.31304
634405.7	4255957.38	0.000146908	3.85514E-05	0.000105585	8.11007E-05	0.000372146	4.19678	1.12688	1.71259	1.31545
634393.4	4255950.91	0.00014697	3.86031E-05	0.000105812	8.12721E-05	0.000372658	4.19856	1.12839	1.71627	1.31823
634381.2	4255944.44	0.000146747	3.86585E-05	0.000106029	8.1441E-05	0.000372876	4.19219	1.13001	1.71979	1.32097
634369	4255937.97	0.000146176	3.8718E-05	0.000106197	8.15841E-05	0.000372676	4.17588	1.13175	1.72251	1.32329
634356.7	4255931.5	0.00014521	3.87813E-05	0.000106297	8.16889E-05	0.000371978	4.14828	1.1336	1.72414	1.32499
634344.5	4255925.03	0.000143816	3.88491E-05	0.000106376	8.17863E-05	0.000370828	4.10846	1.13558	1.72542	1.32657
634332.3	4255918.56	0.000141994	3.89223E-05	0.000106491	8.19102E-05	0.000369318	4.0564	1.13772	1.72728	1.32858
634320.1	4255912.09	0.000111331	3.89999E-05	0.000106582	8.20255E-05	0.000367379	3.99292	1.13999	1.72875	1.33045
634307.8	4255905.62	0.000137204	3.9082E-05	0.000106642	8.21278E-05	0.000365056	3.91955	1.14239	1.72973	1.33211
634295.6	4255899.15	0.000134357	3.91679E-05	0.00010667	8.22172E-05	0.000362412	3.83822	1.1449	1.73018	1.33356
634283.4	4255892.68	0.000131305	3.92575E-05	0.000106662	8.22918E-05	0.000359517	3.75104	1.14752	1.73006	1.33477
634271.2	4255886.21	0.000128122	3.93503E-05	0.000106619	8.2351E-05	0.000356442	3.66011	1.15023	1.72935	1.33573
634258.9	4255879.74	0.000124863	3.94454E-05	0.000106534	8.23929E-05	0.000353235	3.56701	1.15301	1.72797	1.33641
634246.7	4255873.27	0.000121581	3.95412E-05	0.000106361	8.23892E-05	0.000349872	3.47325	1.15581	1.72517	1.33635
634234.5	4255866.8	0.00011831	3.96366E-05	0.000106108	8.23436E-05	0.000346398	3.3798	1.1586	1.72106	1.33561
634222.2	4255860.33	0.000115076	3.97327E-05	0.000105842	8.22999E-05	0.000342951	3.28742	1.16141	1.71676	1.3349
634210	4255853.86	0.000111888	3.98278E-05	0.000105573	8.22635E-05	0.000339553	3.19636	1.16419	1.71239	1.33431
634197.8	4255847.39	0.000111333	3.99202E-05	0.000105252	8.22037E-05	0.000336133	3.10689	1.16689	1.70719	1.33334
		0.000108737		0.000103232						
634185.6	4255840.92		4.00085E-05		8.21161E-05	0.00033268	3.01911	1.16947	1.70101	1.33192
634169.4	4255821.18	0.000102141	4.04751E-05	0.000105103	8.25822E-05	0.000330302	2.9179	1.18311	1.70477	1.33948
634165.5	4255807.92	0.000101558	4.0862E-05	0.000105798	8.31864E-05	0.000331405	2.90126	1.19442	1.71604	1.34928
634161.5	4255794.66	0.000100926	4.12527E-05	0.000106528	8.38208E-05	0.000332528	2.8832	1.20584	1.72788	1.35957
634157.6	4255781.4	0.000100243	4.16451E-05	0.000107245	8.44558E-05	0.000333589	2.86367	1.21731	1.73951	1.36987
634153.6	4255768.14	9.95009E-05	4.20389E-05	0.000107938	8.50853E-05	0.000334563	2.84248	1.22882	1.75075	1.38008
634149.7	4255754.87	9.87034E-05	4.24337E-05	0.000108608	8.57086E-05	0.000335453	2.8197	1.24036	1.76161	1.39019
634145.8	4255741.61	9.78528E-05	4.28278E-05	0.000109251	8.63251E-05	0.000336257	2.7954	1.25188	1.77205	1.40019
634141.8	4255728.35	9.69455E-05	4.32212E-05	0.000109863	8.69324E-05	0.000336963	2.76948	1.26338	1.78198	1.41004
634137.9	4255726.55	9.5986E-05	4.36126E-05	0.000103863	8.75311E-05	0.000330505	2.74207	1.27482	1.79142	1.41975
634134	4255701.83	9.49775E-05	4.40012E-05	0.000110994	8.81198E-05	0.000338092	2.71326	1.28618	1.80031	1.4293
634130	4255688.57	9.3926E-05	4.43868E-05	0.000111508	8.86963E-05	0.000338517	2.68322	1.29745	1.80865	1.43865
634126.1	4255675.3	9.28296E-05	4.47672E-05	0.000111983	8.92616E-05	0.000338841	2.6519	1.30857	1.81636	1.44782
634122.1	4255662.04	9.16951E-05	4.51418E-05	0.000112419	8.98116E-05	0.000339067	2.61949	1.31952	1.82343	1.45674
634118.2	4255648.78	9.05287E-05	4.55096E-05	0.000112813	9.03473E-05	0.000339199	2.58617	1.33027	1.82982	1.46543
634114.3	4255635.52	8.93288E-05	4.58684E-05	0.000113162	9.08658E-05	0.000339226	2.55189	1.34076	1.83549	1.47384
634110.3	4255622.26	8.81015E-05	4.62177E-05	0.000113465	9.13665E-05	0.000339151	2.51683	1.35097	1.8404	1.48196
634106.4	4255608.99	8.68501E-05	4.65561E-05	0.000113722	9.18486E-05	0.000338976	2.48108	1.36086	1.84456	1.48978
634102.5	4255595.73	8.55804E-05	4.68818E-05	0.000113722	9.23104E-05	0.000338701	2.44481	1.37038	1.84792	1.49727
634098.5	4255582.47	8.42909E-05	4.71934E-05	0.000114084	9.27493E-05	0.000338317	2.40797	1.37949	1.85043	1.50439
634094.6	4255569.21	8.29869E-05	4.74897E-05	0.000114186	9.31655E-05	0.000337828	2.37072	1.38815	1.85209	1.51114
634090.7	4255555.95	8.16742E-05	4.77692E-05	0.000114236	9.35582E-05	0.000337238	2.33322	1.39632	1.85291	1.51751
634086.7	4255542.68	8.03497E-05	4.80306E-05	0.000114231	9.39238E-05	0.000336535	2.29538	1.40396	1.85282	1.52344
634082.8	4255529.42	7.90188E-05	4.82717E-05	0.000114169	9.42617E-05	0.000335721	2.25736	1.41101	1.85182	1.52892
634078.8	4255516.16	7.76858E-05	4.84927E-05	0.000114055	9.45718E-05	0.000334805	2.21928	1.41747	1.84996	1.53395
634074.9	4255502.9	7.63472E-05	4.86915E-05	0.000113882	9.48511E-05	0.000333772	2.18104	1.42328	1.84716	1.53848
634071	4255489.64	7.50086E-05	4.88677E-05	0.000113654	9.50989E-05	0.000332629	2.1428	1.42843	1.84346	1.5425
634067	4255476.37	7.36714E-05	4.90199E-05	0.000113371	9.53147E-05	0.000331377	2.1046	1.43288	1.83888	1.546
634515.7	4256015.61	0.000141755	3.81686E-05	0.000102809	7.9216E-05	0.000361949	4.04958	1.11569	1.66756	1.28488
634529.8	4256016.87	0.000141733	3.82969E-05	0.000102962	7.93239E-05	0.000363103	4.07144	1.11944	1.67004	1.28663
634544	4256018.13	0.000143163	3.84201E-05	0.000103095	7.94201E-05	0.000364098	4.08979	1.12304	1.67219	1.28819
634494.4	4256108.63	0.000118297	3.53702E-05	9.38221E-05	7.32357E-05	0.000320725	3.37945	1.03389	1.52179	1.18788
634481.9	4256102.04	0.00011879	3.54064E-05	9.41488E-05	7.34521E-05	0.000321797	3.39352	1.03495	1.52709	1.19139
634469.5	4256095.45	0.000119257	3.5441E-05	9.44639E-05	7.3663E-05	0.000322825	3.40686	1.03596	1.5322	1.19481
634457	4256088.87	0.000119704	3.54745E-05	9.47647E-05	7.38658E-05	0.000323809	3.41962	1.03694	1.53708	1.1981
634444.6	4256082.28	0.000120146	3.55087E-05	9.50545E-05	7.40631E-05	0.000324772	3.43225	1.03794	1.54178	1.2013
634432.1	4256075.69	0.000120592	3.5544E-05	9.53233E-05	7.4248E-05	0.000325708	3.44501	1.03897	1.54614	1.2043
634419.7	4256069.1	0.000121046	3.55802E-05	9.5536E-05	7.43997E-05	0.000326562	3.45796	1.04003	1.54959	1.20676
634407.2	4256062.52	0.000121485	3.56182E-05	9.57278E-05	7.45403E-05	0.000327371	3.4705	1.04114	1.5527	1.20904
634394.8	4256055.93	0.000121885	3.56593E-05	9.59491E-05	7.47018E-05	0.000328196	3.48195	1.04234	1.55629	1.21166
634382.3	4256049.34	0.000121003	3.5703E-05	9.61692E-05	7.48646E-05	0.000328956	3.49147	1.04362	1.55986	1.2143
634369.9	4256042.75	0.000122451	3.57506E-05	9.63554E-05	7.50088E-05	0.000329566	3.49811	1.04501	1.56288	1.21664
634357.4	4256036.16	0.000122542	3.58009E-05	9.6483E-05	7.51192E-05	0.000329945	3.50071	1.04648	1.56495	1.21843
634345	4256029.58	0.000122442	3.58549E-05	9.65897E-05	7.52197E-05	0.000330107	3.49786	1.04806	1.56668	1.22006
634332.5	4256022.99	0.000122115	3.59131E-05	9.66828E-05	7.53146E-05	0.000330025	3.4885	1.04976	1.56819	1.2216
634320.1	4256016.4	0.000121523	3.59757E-05	9.67826E-05	7.54188E-05	0.0003297	3.47159	1.05159	1.56981	1.22329
634307.6	4256009.81	0.000120645	3.60428E-05	9.6885E-05	7.55286E-05	0.000329101	3.44651	1.05355	1.57147	1.22507
634295.2	4256003.22	0.000119472	3.61136E-05	9.69491E-05	7.56186E-05	0.000328153	3.41301	1.05562	1.57251	1.22653
634282.7	4255996.64	0.000118009	3.61875E-05	9.69627E-05	7.56815E-05	0.000326841	3.37122	1.05778	1.57273	1.22755
634270.3	4255990.05	0.000116278	3.62651E-05	9.69398E-05	7.57271E-05	0.00032521	3.32177	1.06005	1.57236	1.22829
634257.8	4255983.46	0.000114311	3.63466E-05	9.69176E-05	7.57789E-05	0.000323355	3.26558	1.06243	1.572	1.22913
634245.4	4255976.87	0.000114311	3.64314E-05	9.69152E-05	7.58504E-05	0.000323333	3.20389	1.06491	1.57196	1.23029
634232.9	4255970.87	0.000112132	3.65186E-05	9.6885E-05	7.59102E-05	0.000321349	3.13792	1.06746	1.57147	1.23126
634220.5	4255963.7	0.000107427	3.66072E-05	9.68184E-05	7.59546E-05	0.000316808	3.06892	1.07005	1.57039	1.23198
634208	4255957.11	0.000104946	3.66958E-05	9.66858E-05	7.59644E-05	0.000314292	2.99804	1.07264	1.56824	1.23214
634195.6	4255950.52	0.000102433	3.67848E-05	9.65144E-05	7.5957E-05	0.000311689	2.92623	1.07524	1.56546	1.23202
634183.1	4255943.93	9.99122E-05	3.68724E-05	9.63011E-05	7.59312E-05	0.000309017	2.85423	1.0778	1.562	1.2316
634170.7	4255937.35	9.74037E-05	3.69576E-05	9.6044E-05	7.58849E-05	0.00030629	2.78257	1.08029	1.55783	1.23085
634158.2	4255930.76	9.49212E-05	3.704E-05	9.57426E-05	7.58183E-05	0.000303522	2.71165	1.0827	1.55294	1.22977
634145.8	4255924.17	9.24712E-05	3.7118E-05	9.53936E-05	7.57302E-05	0.000300713	2.64166	1.08498	1.54728	1.22834
634133.3	4255917.58	9.00579E-05	3.71905E-05	9.49959E-05	7.56186E-05	0.000297863	2.57272	1.0871	1.54083	1.22653
634120.9	4255910.99	8.76835E-05	3.72559E-05	9.4549E-05	7.54823E-05	0.000294971	2.50489	1.08901	1.53358	1.22432
634108.4	4255904.41	8.53487E-05	3.7313E-05	9.40496E-05	7.53202E-05	0.000292031	2.43819	1.09068	1.52548	1.22169
634092	4255884.31	8.25784E-05	3.76893E-05	9.40379E-05	7.56445E-05	0.000232031	2.35905	1.10168	1.52529	1.22695
037032	.233004.31	5.23707L-03	5.70053L-03	5.703/JL-03	, .JUTTJL-UJ	0.00020333	2.33303	1.10100	1.32323	1.22033

624000	4255070.04	0.206045.05	2 004705 05	0.455575.05	7.6455.05	0.00000703	2 24454	1 11120	4 52260	4 22545
634088	4255870.81	8.20694E-05	3.80178E-05	9.45557E-05	7.615E-05	0.000290793	2.34451	1.11128	1.53369	1.23515
634083.9	4255857.31	8.15262E-05	3.83451E-05	9.50508E-05	7.66488E-05	0.000291571	2.32899	1.12085	1.54172	1.24324
634079.9	4255843.81	8.09468E-05	3.86705E-05	9.5512E-05	7.71328E-05	0.000292262	2.31244	1.13036	1.5492	1.25109
634075.9	4255830.3	8.03311E-05	3.89931E-05	9.5893E-05	7.75717E-05	0.000292789	2.29485	1.13979	1.55538	1.25821
634071.9	4255816.8	7.96751E-05	3.93116E-05	9.62376E-05	7.79947E-05	0.000293219	2.27611	1.1491	1.56097	1.26507
634067.9	4255803.3	7.89852E-05	3.96277E-05	9.66155E-05	7.84478E-05	0.000293676	2.2564	1.15834	1.5671	1.27242
634063.9	4255789.79	7.82595E-05	3.99397E-05	9.69738E-05	7.88973E-05	0.00029407	2.23567	1.16746	1.57291	1.27971
634059.9	4255776.29	7.74985E-05	4.02456E-05	9.73005E-05	7.93344E-05	0.000294379	2.21393	1.1764	1.57821	1.2868
634055.9	4255762.79	7.67032E-05	4.05449E-05	9.7594E-05	7.97573E-05	0.000294599	2.19121	1.18515	1.58297	1.29366
634051.9	4255749.28	7.58757E-05	4.08367E-05	9.78535E-05	8.01661E-05	0.000294732	2.16757	1.19368	1.58718	1.30029
634047.9	4255735.78	7.50184E-05	4.11196E-05	9.80767E-05	8.05594E-05	0.000294774	2.14308	1.20195	1.5908	1.30667
634043.9	4255722.28	7.41356E-05	4.1393E-05	9.82641E-05	8.09373E-05	0.00029473	2.11786	1.20994	1.59384	1.3128
634039.9	4255708.77	7.32244E-05	4.16547E-05	9.83893E-05	8.12814E-05	0.00029455	2.09183	1.21759	1.59587	1.31838
			4.19041E-05							
634035.8	4255695.27	7.22908E-05		9.84744E-05	8.16063E-05	0.000294276	2.06516	1.22488	1.59725	1.32365
634031.8	4255681.77	7.13387E-05	4.21412E-05	9.85484E-05	8.19312E-05	0.000293959	2.03796	1.23181	1.59845	1.32892
634027.8	4255668.27	7.03701E-05	4.23646E-05	9.86051E-05	8.22511E-05	0.000293591	2.01029	1.23834	1.59937	1.33411
634023.8	4255654.76	6.93854E-05	4.25726E-05	9.86038E-05	8.25384E-05	0.0002931	1.98216	1.24442	1.59935	1.33877
634019.8	4255641.26	6.83878E-05	4.27638E-05	9.85484E-05	8.27949E-05	0.000292495	1.95366	1.25001	1.59845	1.34293
634015.8	4255627.76	6.7381E-05	4.29379E-05	9.84516E-05	8.30286E-05	0.000291799	1.9249	1.2551	1.59688	1.34672
634011.8	4255614.25	6.63645E-05	4.30939E-05	9.83128E-05	8.32376E-05	0.000291009	1.89586	1.25966	1.59463	1.35011
634007.8	4255600.75	6.53416E-05	4.32311E-05	9.81316E-05	8.34207E-05	0.000290125	1.86664	1.26367	1.59169	1.35308
634003.8	4255587.25	6.43153E-05	4.33485E-05	9.7909E-05	8.35779E-05	0.000289151	1.83732	1.2671	1.58808	1.35563
633999.8	4255573.74	6.32865E-05	4.34467E-05	9.76458E-05	8.37086E-05	0.000288088	1.80793	1.26997	1.58381	1.35775
633995.8	4255560.24	6.22584E-05	4.3524E-05	9.73424E-05	8.3811E-05	0.000286936	1.77856	1.27223	1.57889	1.35941
633991.7	4255546.74	6.12317E-05	4.35814E-05	9.70009E-05	8.38849E-05	0.000285699	1.74923	1.27391	1.57335	1.36061
633987.7	4255533.24	6.02089E-05	4.36184E-05	9.66217E-05	8.39312E-05	0.00028438	1.72001	1.27499	1.5672	1.36136
633983.7	4255519.73	5.91916E-05	4.36358E-05	9.62093E-05	8.39491E-05	0.000282986	1.69095	1.2755	1.56051	1.36165
633979.7	4255506.23	5.81779E-05	4.36324E-05	9.57364E-05	8.39182E-05	0.000281465	1.66199	1.2754	1.55284	1.36115
633975.7	4255492.73	5.71715E-05	4.36095E-05	9.52315E-05	8.38584E-05	0.000279871	1.63324	1.27473	1.54465	1.36018
633971.7	4255479.22	5.61728E-05	4.35674E-05	9.46723E-05	8.37505E-05	0.000278163	1.60471	1.2735	1.53558	1.35843
633967.7	4255465.72	5.51842E-05	4.35072E-05	9.40786E-05	8.36075E-05	0.000276378	1.57647	1.27174	1.52595	1.35611
634506.8	4256115.22	0.000117774	3.53325E-05	9.34842E-05	7.30131E-05	0.000319604	3.3645	1.03279	1.51631	1.18427
634521	4256116.48	0.000118353	3.54472E-05	9.36162E-05	7.31081E-05	0.000320525	3.38104	1.03614	1.51845	1.18581
634535.1	4256117.74	0.000118353	3.55577E-05	9.37321E-05	7.31051E 03	0.000320323	3.3955	1.03937	1.52033	1.18722
634485.7	4256208.32	0.000100505	3.28612E-05	8.57339E-05	6.77486E-05	0.000286848	2.87116	0.96055	1.3906	1.09888
634473.4	4256201.82	0.000100849	3.28909E-05	8.60132E-05	6.79367E-05	0.00028769	2.881	0.96142	1.39513	1.10193
634461.1	4256195.31	0.000101179	3.292E-05	8.62838E-05	6.81198E-05	0.000288502	2.89041	0.96227	1.39952	1.1049
634448.8	4256188.81	0.000101502	3.29484E-05	8.65446E-05	6.8298E-05	0.000289293	2.89965	0.9631	1.40375	1.10779
634436.5	4256182.31	0.000101824	3.29765E-05	8.67955E-05	6.84706E-05	0.000290067	2.90885	0.96392	1.40782	1.11059
634424.2	4256175.8	0.00010215	3.30059E-05	8.70378E-05	6.86383E-05	0.000290832	2.91816	0.96478	1.41175	1.11331
634411.9	4256169.3	0.000102484	3.30356E-05	8.72549E-05	6.87912E-05	0.000291566	2.92771	0.96565	1.41527	1.11579
634399.6	4256162.8	0.000102831	3.30671E-05	8.74361E-05	6.89225E-05	0.000292257	2.93762	0.96657	1.41821	1.11792
634387.3	4256156.29	0.000102031	3.31006E-05	8.761E-05	6.90501E-05	0.000292944	2.94768	0.96755	1.42103	1.11999
634375	4256149.79	0.000103183	3.31362E-05	8.779E-05	6.91833E-05	0.000292944	2.95746	0.96859	1.42395	1.12215
634362.7	4256143.29	0.000103848	3.31742E-05	8.79312E-05	6.92937E-05	0.000294247	2.96667	0.9697	1.42624	1.12394
634350.5	4256136.78	0.000104131	3.32152E-05	8.806E-05	6.93985E-05	0.000294805	2.97475	0.9709	1.42833	1.12564
634338.2	4256130.28	0.000104347	3.32594E-05	8.81821E-05	6.95008E-05	0.00029529	2.98093	0.97219	1.43031	1.1273
634325.9	4256123.78	0.000104475	3.33066E-05	8.829E-05	6.95964E-05	0.000295668	2.98458	0.97357	1.43206	1.12885
634313.6	4256117.27	0.000104489	3.33569E-05	8.83628E-05	6.96722E-05	0.000295881	2.98498	0.97504	1.43324	1.13008
634301.3	4256110.77	0.000104361	3.34116E-05	8.84725E-05	6.97745E-05	0.000296019	2.98131	0.97664	1.43502	1.13174
634289	4256104.26	0.00010407	3.34701E-05	8.85748E-05	6.98763E-05	0.000295991	2.97301	0.97835	1.43668	1.13339
634276.7	4256097.76	0.000103595	3.35313E-05	8.86254E-05	6.99472E-05	0.000295699	2.95943	0.98014	1.4375	1.13454
634264.4	4256091.26	0.000102922	3.3595E-05	8.86396E-05	6.9999E-05	0.000295156	2.94022	0.982	1.43773	1.13538
634252.1	4256084.75	0.000102028	3.36624E-05	8.86371E-05	7.0044E-05	0.000294391	2.91524	0.98397	1.43769	1.13611
634239.8	4256078.25	0.000100974	3.37335E-05	8.86605E-05	7.01105E-05	0.000293479	2.88457	0.98605	1.43807	1.13719
634227.6	4256071.75	9.97109E-05	3.38067E-05	8.86605E-05	7.01666E-05	0.000292345	2.84848	0.98819	1.43807	1.1381
634215.3	4256065.24	9.82757E-05	3.38827E-05	8.86371E-05	7.02129E-05	0.000291008	2.80748	0.99041	1.43769	1.13885
634203	4256058.74	9.66893E-05	3.396E-05	8.85866E-05	7.02468E-05	0.000289483	2.76216	0.99267	1.43687	1.1394
634190.7	4256052.24	9.49789E-05	3.40384E-05	8.85083E-05	7.02684E-05	0.000287794	2.7133	0.99496	1.4356	1.13975
634178.4	4256045.73	9.31723E-05	3.41177E-05	8.8401E-05	7.02776E-05	0.000285969	2.66169	0.99728	1.43386	1.1399
634166.1	4256039.23	9.12943E-05	3.41964E-05	8.82616E-05	7.02721E-05	0.000284024	2.60804	0.99958	1.4316	1.13981
634153.8	4256032.73		3.42744E-05	8.80902E-05	7.02511E-05	0.000281986	2.55307	1.00186	1.42882	1.13947
634141.5	4256026.22	8.74203E-05	3.4351E-05	8.78837E-05	7.02147E-05	0.00027987	2.49737	1.0041	1.42547	1.13888
634129.2	4256019.72	8.54621E-05	3.44256E-05	8.76673E-05	7.01784E-05	0.000277733	2.44143	1.00628	1.42196	1.13829
634116.9	4256013.22	8.35078E-05	3.44968E-05	8.74127E-05	7.01235E-05	0.000277733	2.3856	1.00836	1.41783	1.1374
634104.6	4256006.71	8.1565E-05	3.45638E-05	8.71229E-05	7.00526E-05	0.000273304	2.3301	1.01032	1.41313	1.13625
634092.4	4256000.21	7.96422E-05	3.46254E-05	8.67888E-05	6.99583E-05	0.000271015	2.27517	1.01212	1.40771	1.13472
634080.1	4255993.71	7.77428E-05	3.46801E-05	8.64133E-05	6.98436E-05	0.00026868	2.22091	1.01372	1.40162	1.13286
634067.8	4255987.2	7.58683E-05	3.4727E-05	8.59706E-05	6.96907E-05	0.000266257	2.16736	1.01509	1.39444	1.13038
634055.5	4255980.7	7.40204E-05	3.47653E-05	8.54854E-05	6.95144E-05	0.000263786	2.11457	1.01621	1.38657	1.12752
634043.2	4255974.2	7.22002E-05	3.47934E-05	8.49534E-05	6.93115E-05	0.000261258	2.06257	1.01703	1.37794	1.12423
634030.9	4255967.69	7.04079E-05	3.48108E-05	8.43831E-05	6.90877E-05	0.00025869	2.01137	1.01754	1.36869	1.1206
634014.7	4255947.86	6.82257E-05	3.50787E-05	8.41124E-05	6.9224E-05	0.000256641	1.94903	1.02537	1.3643	1.12281
634010.7	4255934.53	6.77874E-05	3.53384E-05	8.44164E-05	6.95871E-05	0.000257129	1.93651	1.03296	1.36923	1.1287
634006.7	4255921.2	6.7324E-05	3.55932E-05	8.46556E-05	6.9912E-05	0.000257485	1.92327	1.04041	1.37311	1.13397
634000.7	4255907.87	6.68377E-05	3.5844E-05	8.48825E-05	7.02351E-05	0.000257799	1.90938	1.04041	1.37511	1.13921
633998.8	4255894.54	6.63312E-05	3.60913E-05	8.51248E-05	7.05736E-05	0.000258121	1.89491	1.05497	1.38072	1.1447
633994.9	4255881.21	6.58002E-05	3.63329E-05	8.53492E-05	7.09071E-05	0.000258389	1.87974	1.06203	1.38436	1.15011
633990.9	4255867.88	6.52454E-05	3.65682E-05	8.55483E-05	7.12283E-05	0.00025859	1.86389	1.06891	1.38759	1.15532
633987	4255854.55	6.46674E-05	3.67964E-05	8.57209E-05	7.15372E-05	0.000258722	1.84738	1.07558	1.39039	1.16033
633983	4255841.22	6.40682E-05	3.70171E-05	8.58671E-05	7.18337E-05	0.000258786	1.83026	1.08203	1.39276	1.16514
633979	4255827.89	6.34451E-05	3.72285E-05	8.59842E-05	7.21161E-05	0.000258774	1.81246	1.08821	1.39466	1.16972
633975.1	4255814.56	6.2801E-05	3.74307E-05	8.60717E-05	7.23837E-05	0.000258687	1.79406	1.09412	1.39608	1.17406
633971.1	4255801.23	6.21362E-05	3.76226E-05	8.61309E-05	7.26358E-05	0.000258526	1.77507	1.09973	1.39704	1.17815
633967.2	4255787.9	6.14547E-05	3.78039E-05	8.61611E-05	7.28726E-05	0.000258292	1.7556	1.10503	1.39753	1.18199
633963.2	4255774.57	6.07518E-05	3.79716E-05	8.61137E-05	7.306E-05	0.000257897	1.73552	1.10993	1.39676	1.18503
633959.3	4255761.24	6.00324E-05	3.81259E-05	8.60163E-05	7.3216E-05	0.000257391	1.71497	1.11444	1.39518	1.18756
000000.0	.233,01.24	0.0032 1 L-03	J.U12JJL-UJ	5.0010JL-0J	,.5210L-0J	0.00023/331	1./143/	±.±± 777	1.55510	1.10/30

				0.500605.05			4 60440		4.000=0	4 40000
633955.3	4255747.91	5.93026E-05	3.82682E-05	8.59262E-05	7.338E-05	0.000256877	1.69412	1.1186	1.39372	1.19022
633951.3	4255734.58	5.85608E-05	3.83975E-05	8.58319E-05	7.35452E-05	0.000256335	1.67293	1.12238	1.39219	1.1929
633947.4	4255721.25	5.78086E-05	3.85121E-05	8.5708E-05	7.36907E-05	0.000255719	1.65144	1.12573	1.39018	1.19526
633943.4	4255707.92	5.70472E-05	3.86116E-05	8.55539E-05	7.38165E-05	0.000255029	1.62969	1.12864	1.38768	1.1973
633939.5	4255694.59	5.62806E-05	3.86965E-05	8.53701E-05	7.39231E-05	0.00025427	1.60779	1.13112	1.3847	1.19903
633935.5	4255681.26	5.5507E-05	3.87649E-05	8.51568E-05	7.40082E-05	0.000253437	1.58569	1.13312	1.38124	1.20041
633931.6	4255667.93	5.47295E-05	3.88176E-05	8.49145E-05	7.40723E-05	0.000252534	1.56348	1.13466	1.37731	1.20145
633927.6	4255654.6	5.39496E-05	3.88542E-05	8.46439E-05	7.41143E-05	0.000251562	1.5412	1.13573	1.37292	1.20213
633923.6	4255641.27	5.31701E-05	3.88754E-05	8.43486E-05	7.41352E-05	0.000250529	1.51893	1.13635	1.36813	1.20247
633919.7	4255627.94	5.23898E-05	3.88802E-05	8.40261E-05	7.4134E-05	0.00024943	1.49664	1.13649	1.3629	1.20245
633915.7	4255614.61	5.16113E-05	3.88696E-05	8.36784E-05	7.41106E-05	0.00024827	1.4744	1.13618	1.35726	1.20207
633911.8	4255601.28	5.0837E-05	3.88439E-05	8.33097E-05	7.40649E-05	0.000247056	1.45228	1.13543	1.35128	1.20133
633907.8	4255587.95	5.00658E-05	3.88032E-05	8.2917E-05	7.39971E-05	0.000245783	1.43025	1.13424	1.34491	1.20023
633903.9	4255574.62	4.92996E-05	3.87482E-05	8.25045E-05	7.39065E-05	0.000244459	1.40836	1.13263	1.33822	1.19876
633899.9	4255561.29	4.854E-05	3.86794E-05	8.20736E-05	7.37937E-05	0.000243087	1.38666	1.13062	1.33123	1.19693
633895.9	4255547.96	4.77884E-05	3.8598E-05	8.16266E-05	7.36599E-05	0.000241673	1.36519	1.12824	1.32398	1.19476
633892	4255534.63	4.70431E-05	3.85039E-05	8.11642E-05	7.35039E-05	0.000240215	1.3439	1.12549	1.31648	1.19223
633888	4255521.3	4.63059E-05	3.83985E-05	8.0687E-05	7.3327E-05	0.000238718	1.32284	1.12241	1.30874	1.18936
633884.1	4255507.97	4.55771E-05	3.82822E-05	8.01987E-05	7.3129E-05	0.000237187	1.30202	1.11901	1.30082	1.18615
633880.1	4255494.64	4.48585E-05	3.81566E-05	7.97018E-05	7.29133E-05	0.00023563	1.28149	1.11534	1.29276	1.18265
633876.2	4255481.31	4.41479E-05	3.80208E-05	7.91864E-05	7.26685E-05	0.000234024	1.26119	1.11137	1.2844	1.17868
633872.2	4255467.98	4.34446E-05	3.78751E-05	7.86192E-05	7.23726E-05	0.000232312	1.2411	1.10711	1.2752	1.17388
633868.2	4255454.65	4.27512E-05	3.77215E-05	7.80378E-05	7.20514E-05	0.000230562	1.22129	1.10262	1.26577	1.16867
634497.9	4256214.82	0.000100135	3.28297E-05	8.5446E-05	6.75563E-05	0.000285967	2.86059	0.95963	1.38593	1.09576
	4256216.08	0.000100133	3.29327E-05			0.000285307	2.87376	0.96264	1.3878	1.09714
634512.1				8.55613E-05	6.76414E-05					
634526.2	4256217.34	0.000101005	3.30322E-05	8.56642E-05	6.77197E-05	0.000287421	2.88544	0.96555	1.38947	1.09841
634602.6	4255521.61	0.001350188	6.11672E-05	0.000184373	0.000128835	0.001724564	38.57135	1.78795	2.99053	2.0897
634605.2	4255496.96	0.001532352	6.28555E-05	0.00019039	0.000132251	0.001917849	43.7753	1.8373	3.08812	2.14511
634607.8	4255472.31	0.001692906	6.46207E-05	0.00019671	0.000135812	0.002090048	48.3619	1.8889	3.19062	2.20286
634610.4	4255447.66	0.001800747	6.64743E-05	0.000203761	0.00013973	0.002210712	51.44265	1.94308	3.30499	2.26642
634613	4255423.01	0.001866561	6.84195E-05	0.000211196	0.000143827	0.002290003	53.32278	1.99994	3.42559	2.33286
634615.6	4255398.36	0.001908114	7.04646E-05	0.000219192	0.000148186	0.002345956	54.50984	2.05972	3.55528	2.40357
634618.2	4255373.71	0.001933126	7.26271E-05	0.000228552	0.000153188	0.002387494	55.22437	2.12293	3.70711	2.48471
634620.8	4255349.06	0.00195068	7.4899E-05	0.000238222	0.000158317	0.002422118	55.72584	2.18934	3.86395	2.56789
634623.4	4255324.41	0.001963162	7.72927E-05	0.000248503	0.000163714	0.002452671	56.08243	2.25931	4.0307	2.65543
634626	4255299.76	0.001969645	7.98192E-05	0.000259575	0.000169461	0.002478501	56.26763	2.33316	4.2103	2.74865
634628.6	4255275.11	0.001976349	8.24883E-05	0.000270847	0.000175296	0.002504981	56.45915	2.41118	4.39313	2.84329
634631.2	4255250.47	0.001980485	8.53131E-05	0.000282885	0.000181477	0.00253016	56.5773	2.49375	4.58838	2.94355
634633.8	4255225.82	0.001983573	8.8309E-05	0.000295763	0.000188088	0.002555733	56.66552	2.58132	4.79726	3.05078
634636.4	4255201.17	0.001986449	9.14906E-05	0.000309546	0.000195082	0.002582567	56.74767	2.67432	5.02082	3.16422
634639	4255176.52	0.001988709	9.48764E-05	0.000324304	0.000202533	0.002610423	56.81224	2.77329	5.26019	3.28508
634641.6	4255151.87	0.001990078	9.84846E-05	0.000340103	0.000210544	0.00263921	56.85134	2.87876	5.51645	3.41502
634644.2	4255127.22	0.00198877	0.000102333	0.00035635	0.000218744	0.002666197	56.81398	2.99125	5.77998	3.54802
634646.8	4255102.57	0.001979823	0.000106416	0.000369386	0.000225586	0.002681211	56.55837	3.1106	5.99142	3.659
634616.8	4255523.11	0.001073234	6.13539E-05	0.000184441	0.000128902	0.001447931	30.65951	1.79341	2.99162	2.09078
634619.4	4255498.46	0.001175103	6.30446E-05	0.000190147	0.000132159	0.001560453	33.56962	1.84283	3.08417	2.14362
634622	4255473.81	0.00126976	6.48109E-05	0.000196278	0.000135626	0.001666475	36.27372	1.89446	3.18362	2.19985
634624.6	4255449.16	0.001349827	6.6672E-05	0.00020344	0.000139608	0.001759546	38.56103	1.94886	3.29978	2.26443
634627.2	4255424.51	0.001408628	6.86254E-05	0.000211004	0.000143773	0.00183203	40.24082	2.00596	3.42247	2.33199
634629.8	4255399.86	0.001449611	7.06774E-05	0.000219022	0.000148148	0.001887459	41.41162	2.06594	3.55253	2.40296
634632.4	4255375.21	0.001478431	7.28423E-05	0.0002279	0.000152926	0.001932099	42.23492	2.12922	3.69652	2.48045
634635	4255350.56	0.001498868	7.51183E-05	0.000237141	0.000157865	0.001968992	42.81876	2.19575	3.84641	2.56056
634637.6	4255325.91	0.001513524	7.75226E-05	0.000247351	0.000163247	0.002001644	43.23742	2.26603	4.01202	2.64786
634640.2	4255301.26	0.001521925	8.00666E-05	0.000259218	0.000169372	0.002030583	43.47744	2.34039	4.20451	2.74721
634642.8	4255276.61	0.001528698	8.27456E-05	0.000271027	0.000175455	0.002057926	43.67091	2.4187	4.39604	2.84588
634645.4	4255251.96	0.001533207	8.55803E-05	0.000283077	0.000181653	0.002083517	43.79973	2.50156	4.59149	2.9464
634648	4255227.31	0.0015373	8.85857E-05	0.000295964	0.000188235	0.002110085	43.91666	2.58941	4.80052	3.05317
634650.6	4255202.66	0.001540203	9.17776E-05	0.000309755	0.000195237	0.002136974	43.99959	2.68271	5.02422	3.16674
634653.2	4255178.02	0.001541659	9.51713E-05	0.000324511	0.00020269	0.002164031	44.04117	2.78191	5.26355	3.28763
634655.8	4255153.37	0.001541879	9.87884E-05	0.000340302	0.000210744	0.002191714	44.04747	2.88764	5.51969	3.41826
634658.4	4255128.72	0.001541906	0.000102651	0.000357199	0.000219261	0.002221018	44.04823	3.00056	5.79376	3.5564
634661	4255104.07	0.001536539	0.00010674	0.000369759	0.000225899	0.002238938	43.89491	3.12007	5.99748	3.66408
634623.3	4255538.91	0.000905224	6.04576E-05	0.000180689	0.00012679	0.00127316	25.85988	1.76721	2.93076	2.05653
634600.1	4255558	0.000947708	5.88343E-05	0.000175414	0.000123731	0.00127510	27.07354	1.71976	2.84521	2.00691
634631	4255524.61	0.000347708	6.15171E-05	0.000173414	0.000123731	0.001303087	25.37917	1.79818	2.98774	2.00091
634633.6	4255499.96	0.000952991	6.32095E-05	0.000189903	0.000132074	0.001338177	27.22447	1.84765	3.08022	2.14223
634636.2	4255475.31	0.001014559	6.49789E-05	0.000196072	0.000135563	0.001411173	28.98331	1.89937	3.18028	2.19882
634638.8	4255450.66	0.001071157	6.68441E-05	0.000203195	0.000139524	0.00148072	30.60016	1.95389	3.29581	2.26308
634641.4	4255426.01	0.001118547	6.8802E-05	0.000210755	0.00014369	0.001541795	31.95398	2.01112	3.41844	2.33065
634644	4255401.36	0.001155325	7.08584E-05	0.000218749	0.000148056	0.001592988	33.00461	2.07123	3.5481	2.40146
634646.6	4255376.71	0.001182938	7.30226E-05	0.000227301	0.000152681	0.001635942	33.79344	2.13449	3.68681	2.47648
634649.2	4255352.06	0.001203512	7.53013E-05	0.000236391	0.000157553	0.001672757	34.38121	2.2011	3.83425	2.5555
634651.8	4255332.00	0.001203312	7.77118E-05	0.000230391	0.000157555	0.001072737	34.8153	2.27156	3.99853	2.64262
		0.001218708		0.000246319					4.18724	
634654.4	4255302.76		8.02657E-05		0.000168961	0.001736309	35.10729	2.34621		2.74054
634657	4255278.11	0.001235709	8.29557E-05	0.000270461	0.000175282	0.001764408	35.30099	2.42484	4.38687	2.84307
634659.6	4255253.46	0.001241015	8.57969E-05	0.000283041	0.000181721	0.001791573	35.45256	2.50789	4.59091	2.9475
634662.2	4255228.81	0.001245281	8.88074E-05	0.00029591	0.000188305	0.001818303	35.57442	2.59589	4.79964	3.0543
634664.8	4255204.16	0.001248772	9.20034E-05	0.000309675	0.000195308	0.001845758	35.67417	2.68931	5.02291	3.16788
634667.4	4255179.51	0.001251463	9.54032E-05	0.000324405	0.000202767	0.001874039	35.75104	2.78869	5.26184	3.28887
634670	4255154.86	0.001252287	9.90214E-05	0.000339733	0.000210519	0.001901561	35.77457	2.89445	5.51046	3.41461
634672.6	4255134.80	0.001252287	0.000102892	0.000333733	0.000210313	0.001901901	35.83452	3.00759	5.79061	3.55767
634675.2	4255105.57	0.001249288	0.000106984	0.000369939	0.000226169	0.00195238	35.68891	3.12719	6.00039	3.66845
634645.2	4255526.1	0.000756143	6.16553E-05	0.000183948	0.000128728	0.001130474	21.60102	1.80222	2.98363	2.08797
634647.8	4255501.45	0.000800329	6.33488E-05	0.000189665	0.000131999	0.001185342	22.86332	1.85172	3.07636	2.14102
634650.4	4255476.81	0.000842873	6.51202E-05	0.000195874	0.00013551	0.001239377	24.07867	1.9035	3.17707	2.19797
634653	4255452.16	0.000883334	6.69888E-05	0.000203032	0.000139494	0.001292848	25.23455	1.95812	3.29317	2.26258
634655.6	4255427.51	0.000919947	6.89501E-05	0.000210613	0.000143674	0.001343185	26.28048	2.01545	3.41614	2.33039
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634658.2	4255402.86	0.000950913	7.10099E-05	0.000218653	0.000148066	0.001388643	27.1651	2.07566	3.54655	2.40163
634660.8	4255378.21	0.000975882	7.31765E-05	0.000227189	0.000152688	0.001428936	27.87841	2.13899	3.685	2.4766
634663.4	4255353.56	0.000995495	7.54577E-05	0.000236261	0.000157545	0.001464759	28.43869	2.20567	3.83215	2.55537
634666	4255328.91	0.001010649	7.78648E-05	0.000246047	0.00016274	0.001497301	28.8716	2.27603	3.99087	2.63964
634668.6	4255304.26	0.001022165	8.04093E-05	0.00025671	0.000168336	0.001527621	29.20058	2.35041	4.16383	2.73041
634671.2	4255279.61	0.001028773	8.31144E-05	0.000269604	0.000174959	0.00155645	29.38935	2.42948	4.37296	2.83783
634673.8	4255254.96	0.001034538	8.59597E-05	0.000282474	0.000181532	0.001584503	29.55404	2.51265	4.58171	2.94444
634676.4	4255230.31	0.001039076	8.89713E-05	0.000295607	0.000188233	0.001611887	29.68368	2.60068	4.79473	3.05313
634679	4255205.66	0.001033070	9.21673E-05	0.000309318	0.000195216	0.001639687	29.79537	2.6941	5.01712	3.1664
634681.6	4255181.01	0.001042565	9.55664E-05	0.000303318	0.000193210	0.001653687	29.89732	2.79346	5.25501	3.28704
634684.2	4255156.36	0.001048095	9.91818E-05	0.000339092	0.000210314	0.001696682	29.94133	2.89914	5.50006	3.41128
634686.8	4255131.71	0.001050231	0.000103047	0.000355913	0.000218815	0.001728006	30.00235	3.01212	5.7729	3.54917
634689.4	4255107.06	0.001046672	0.000107142	0.000369722	0.000226152	0.001749688	29.9007	3.13182	5.99687	3.66818
634650.9	4255543.49	0.000674459	6.06147E-05	0.000180115	0.000126555	0.001041743	19.26753	1.7718	2.92145	2.05271
634642.3	4255559.38	0.000682336	5.94871E-05	0.000176252	0.000124314	0.001042389	19.49257	1.73884	2.8588	2.01636
634616.5	4255580.6	0.000712786	5.77854E-05	0.00017074	0.000121072	0.001062383	20.36243	1.6891	2.7694	1.96378
634599.3	4255585.93	0.000722214	5.71645E-05	0.000169035	0.000120054	0.001068468	20.63178	1.67095	2.74174	1.94727
634659.4	4255527.6	0.00065701	6.17672E-05	0.000183777	0.000128689	0.001031243	18.76905	1.80549	2.98086	2.08733
634662	4255502.95	0.000688617	6.34627E-05	0.000189572	0.000132	0.001073651	19.67199	1.85505	3.07485	2.14103
634664.6	4255478.3	0.00071962	6.52352E-05	0.000195722	0.000135484	0.001116061	20.55768	1.90686	3.1746	2.19754
634667.2	4255453.65	0.000749379	6.71044E-05	0.00020286	0.00013946	0.001158803	21.40781	1.9615	3.29038	2.26203
634669.8	4255429.01	0.000777498	6.90654E-05	0.000210417	0.00014363	0.00120061	22.21108	2.01882	3.41296	2.32967
634672.4	4255404.36	0.00080271	7.11256E-05	0.000218433	0.000148021	0.001240289	22.93133	2.07904	3.54297	2.40089
634675	4255379.71	0.00082429	7.32925E-05	0.000216433	0.000143021	0.001240283	23.54782	2.14238	3.68135	2.47589
634677.6										
	4255355.06	0.00084212	7.55747E-05	0.000236081	0.00015754	0.001311316	24.05717	2.20909	3.82923	2.55529
634680.2	4255330.41	0.00085652	7.79804E-05	0.000245812	0.000162719	0.001343031	24.46853	2.27941	3.98706	2.63929
634682.8	4255305.76	0.000867943	8.05222E-05	0.000256353	0.00016827	0.001373088	24.79486	2.35371	4.15804	2.72933
634685.4	4255281.11	0.000875072	8.32246E-05	0.000269099	0.000174811	0.001402207	24.99852	2.4327	4.36478	2.83543
634688	4255256.46	0.000881355	8.60675E-05	0.000281931	0.000181377	0.00143073	25.178	2.5158	4.57291	2.94192
634690.6	4255231.81	0.000886435	8.9076E-05	0.000295056	0.000188083	0.00145865	25.32315	2.60374	4.7858	3.05069
634693.2	4255207.16	0.000890789	9.22671E-05	0.000308686	0.000195043	0.001486786	25.44753	2.69702	5.00688	3.16359
634695.8	4255182.51	0.000894776	9.56605E-05	0.000323257	0.000202457	0.001516151	25.56142	2.79621	5.24322	3.28384
634698.4	4255157.86	0.000896859	9.92691E-05	0.000338387	0.000210152	0.001544668	25.62093	2.90169	5.48863	3.40866
634701	4255133.21	0.000898061	0.000103115	0.000353801	0.000218031	0.001573008	25.65526	3.0141	5.73864	3.53645
634703.6	4255108.56	0.000896454	0.000107207	0.000368823	0.000225832	0.001598316	25.60936	3.13373	5.98229	3.66298
634673.6	4255529.1	0.000580191	6.18517E-05	0.000183508	0.000128605	0.000954156	16.57455	1.80796	2.97649	2.08597
634676.2	4255504.45	0.000603558	6.35482E-05	0.000189403	0.000123333	0.000988482	17.24209	1.85755	3.07211	2.14058
634678.8	4255479.8	0.000626938	6.53203E-05	0.000195555	0.000131372	0.001023272	17.90999	1.90935	3.1719	2.19713
		0.000649415			0.000133438					
634681.4	4255455.15		6.71896E-05	0.000202727		0.001058787	18.55209	1.96399	3.28823	2.26196
634684	4255430.5	0.00067117	6.91513E-05	0.000210326	0.000143651	0.001094298	19.17357	2.02133	3.41148	2.33001
634686.6	4255405.85	0.000691433	7.12108E-05	0.000218365	0.00014805	0.001129058	19.75243	2.08153	3.54187	2.40136
634689.2	4255381.2	0.000709569	7.33763E-05	0.000226923	0.000152688	0.001162556	20.27054	2.14483	3.68068	2.47659
634691.8	4255356.56	0.000725283	7.56544E-05	0.000235993	0.000157572	0.001194501	20.71943	2.21142	3.82779	2.55581
634694.4	4255331.91	0.00073844	7.8057E-05	0.000245725	0.000162755	0.001224977	21.09531	2.28165	3.98565	2.63988
634697	4255307.26	0.000748768	8.05989E-05	0.000256594	0.00016846	0.001254421	21.39036	2.35595	4.16194	2.73242
634699.6	4255282.61	0.000756838	8.32854E-05	0.000268598	0.000174674	0.001283395	21.6209	2.43448	4.35664	2.8332
634702.2	4255257.96	0.000763569	8.61212E-05	0.000281198	0.000181149	0.001312037	21.81318	2.51737	4.56102	2.93823
634704.8	4255233.31	0.000769017	8.91218E-05	0.00029426	0.000187841	0.001340239	21.96881	2.60508	4.77288	3.04677
634707.4	4255208.66	0.000773561	9.23038E-05	0.000307783	0.000194769	0.001368417	22.09863	2.69809	4.99222	3.15915
634710	4255184.01	0.000777688	9.56865E-05	0.000322228	0.000202145	0.001397748	22.21653	2.79697	5.22652	3.27879
634712.6	4255159.36	0.000777000	9.92817E-05	0.000322228	0.000202143	0.001337748	22.28587	2.90206	5.47075	3.40354
634715.2	4255133.30	0.000780110	0.00010311	0.000337283	0.000203837	0.001420319	22.32366	3.01397	5.71591	3.52963
634717.8	4255110.06	0.000781276	0.000107192	0.000368018	0.000225721	0.001482208	22.31903	3.13328	5.96924	3.66119
634678.8	4255547.28	0.000533367	6.07265E-05	0.000179209	0.000126176	0.000899479	15.2369	1.77507	2.90677	2.04657
634669.9	4255563.97	0.000544365	5.95716E-05	0.000175439	0.000123963	0.000903339	15.5511	1.74131	2.84561	2.01067
634660.9	4255580.65	0.00054796	5.84436E-05	0.000171606	0.000121712	0.000899722	15.65378	1.70834	2.78344	1.97417
634633.8	4255602.93	0.000571454	5.67663E-05	0.000166235	0.000118506	0.000912961	16.32495	1.65931	2.69632	1.92217
634615.7	4255608.53	0.000585438	5.61649E-05	0.000164621	0.000117519	0.000923743	16.72443	1.64173	2.67015	1.90616
634597.6	4255614.12	0.000579782	5.55436E-05	0.000162939	0.000116503	0.000914768	16.56286	1.62357	2.64286	1.88968
634687.8	4255530.6	0.000518915	6.19078E-05	0.000183124	0.000128463	0.00089241	14.82404	1.8096	2.97026	2.08367
634690.4	4255505.95	0.0005366	6.36047E-05	0.000189186	0.000131922	0.000921313	15.32927	1.8592	3.06859	2.13977
634693	4255481.3	0.00055464	6.53778E-05	0.000195458	0.000135476	0.000950951	15.84461	1.91103	3.17032	2.19741
634695.6	4255456.65	0.000572022	6.72444E-05	0.000202592	0.000139461	0.000981319	16.34117	1.96559	3.28603	2.26205
634698.2	4255432	0.000589095	6.92022E-05	0.000210166	0.000143651	0.001012114	16.8289	2.02282	3.40889	2.33001
634700.8	4255407.35	0.000605412	7.12583E-05	0.0002182	0.000148053	0.001042923	17.29503	2.08292	3.5392	2.40141
634703.4	4255382.7	0.000620523	7.34191E-05	0.000226707	0.000152674	0.001073322	17.72671	2.14608	3.67718	2.47636
634706	4255358.05	0.000634101	7.56924E-05	0.000235723	0.000157518	0.001103034	18.1146	2.21253	3.82342	2.55494
634708.6	4255333.4	0.00064595	7.80875E-05	0.000245311	0.000162638	0.001131987	18.45312	2.28254	3.97894	2.63798
634711.2	4255308.76	0.000655541	8.06208E-05	0.000256165	0.00016836	0.001151567	18.72711	2.35659	4.15498	2.73079
634711.2	4255284.11	0.000633341	8.3295E-05	0.000230103	0.00010830	0.001100087	18.95852	2.33039	4.34335	2.73079
634716.4	4255259.46	0.00063642	8.61205E-05	0.000287778	0.000174409	0.001189124	19.15082	2.43476	4.54504	2.82891
		0.000670373								
634719	/ / /		A	0.000293218	0.000187513	0.001245733	19.30849	2.60473	4.75598 4.9732	3.04145
621724 6	4255234.81		8.91098E-05		0.000104400	(1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /			/I U / J /	3.15325
634721.6	4255210.16	0.000680472	9.22784E-05	0.00030661	0.000194406	0.001273766	19.43932	2.69735		
634724.2	4255210.16 4255185.51	0.000680472 0.00068462	9.22784E-05 9.56451E-05	0.00030661 0.000320905	0.00020174	0.001302911	19.55782	2.79576	5.20507	3.27221
634724.2 634726.8	4255210.16 4255185.51 4255160.86	0.000680472 0.00068462 0.000687305	9.22784E-05 9.56451E-05 9.92225E-05	0.00030661 0.000320905 0.000335902	0.00020174 0.000209606	0.001302911 0.001332035	19.55782 19.6345	2.79576 2.90033	5.20507 5.44832	3.27221 3.3998
634724.2 634726.8 634729.4	4255210.16 4255185.51 4255160.86 4255136.21	0.000680472 0.00068462 0.000687305 0.000688919	9.22784E-05 9.56451E-05 9.92225E-05 0.000103029	0.00030661 0.000320905 0.000335902 0.000350905	0.00020174 0.000209606 0.000217289	0.001302911 0.001332035 0.001360142	19.55782 19.6345 19.68063	2.79576 2.90033 3.0116	5.20507 5.44832 5.69167	3.27221 3.3998 3.52441
634724.2 634726.8 634729.4 634732	4255210.16 4255185.51 4255160.86 4255136.21 4255111.56	0.000680472 0.00068462 0.000687305 0.000688919 0.000689552	9.22784E-05 9.56451E-05 9.92225E-05 0.000103029 0.00010709	0.00030661 0.000320905 0.000335902 0.000350905 0.00036674	0.00020174 0.000209606 0.000217289 0.000225567	0.001302911 0.001332035 0.001360142 0.001388948	19.55782 19.6345 19.68063 19.6987	2.79576 2.90033 3.0116 3.13029	5.20507 5.44832 5.69167 5.9485	3.27221 3.3998 3.52441 3.65868
634724.2 634726.8 634729.4 634732 634726.8	4255210.16 4255185.51 4255160.86 4255136.21	0.000680472 0.00068462 0.000687305 0.000688919	9.22784E-05 9.56451E-05 9.92225E-05 0.000103029	0.00030661 0.000320905 0.000335902 0.000350905	0.00020174 0.000209606 0.000217289	0.001302911 0.001332035 0.001360142	19.55782 19.6345 19.68063	2.79576 2.90033 3.0116	5.20507 5.44832 5.69167	3.27221 3.3998 3.52441
634724.2 634726.8 634729.4 634732	4255210.16 4255185.51 4255160.86 4255136.21 4255111.56	0.000680472 0.00068462 0.000687305 0.000688919 0.000689552	9.22784E-05 9.56451E-05 9.92225E-05 0.000103029 0.00010709	0.00030661 0.000320905 0.000335902 0.000350905 0.00036674	0.00020174 0.000209606 0.000217289 0.000225567	0.001302911 0.001332035 0.001360142 0.001388948	19.55782 19.6345 19.68063 19.6987	2.79576 2.90033 3.0116 3.13029	5.20507 5.44832 5.69167 5.9485	3.27221 3.3998 3.52441 3.65868
634724.2 634726.8 634729.4 634732 634726.8	4255210.16 4255185.51 4255160.86 4255136.21 4255111.56 4255555.87	0.000680472 0.00068462 0.000687305 0.000688919 0.000689552 0.000386845	9.22784E-05 9.56451E-05 9.92225E-05 0.000103029 0.00010709 6.05503E-05	0.00030661 0.000320905 0.000335902 0.000350905 0.00036674 0.00017672	0.00020174 0.000209606 0.000217289 0.000225567 0.000125053	0.001302911 0.001332035 0.001360142 0.001388948 0.000749169	19.55782 19.6345 19.68063 19.6987 11.05115	2.79576 2.90033 3.0116 3.13029 1.76992	5.20507 5.44832 5.69167 5.9485 2.86639	3.27221 3.3998 3.52441 3.65868 2.02836
634724.2 634726.8 634729.4 634732 634726.8 634716	4255210.16 4255185.51 4255160.86 4255136.21 4255111.56 4255555.87 4255575.89	0.000680472 0.00068462 0.000687305 0.000688919 0.000689552 0.000386845 0.000397055	9.22784E-05 9.56451E-05 9.92225E-05 0.000103029 0.00010709 6.05503E-05 5.92366E-05	0.00030661 0.000320905 0.000335902 0.000350905 0.00036674 0.00017672 0.000172417	0.00020174 0.000209606 0.000217289 0.000225567 0.000125053 0.000122486	0.001302911 0.001332035 0.001360142 0.001388948 0.000749169 0.000751194	19.55782 19.6345 19.68063 19.6987 11.05115 11.34282	2.79576 2.90033 3.0116 3.13029 1.76992 1.73152	5.20507 5.44832 5.69167 5.9485 2.86639 2.7966	3.27221 3.3998 3.52441 3.65868 2.02836 1.98671
634724.2 634726.8 634729.4 634732 634726.8 634716 634705.2	4255210.16 4255185.51 4255160.86 4255136.21 4255111.56 4255555.87 4255575.89 4255595.91	0.000680472 0.00068462 0.000687305 0.000688919 0.000689552 0.000386845 0.000397055 0.000404498	9.22784E-05 9.56451E-05 9.92225E-05 0.000103029 0.00010709 6.05503E-05 5.92366E-05 5.79568E-05	0.00030661 0.000320905 0.000335902 0.000350905 0.00036674 0.00017672 0.000172417 0.000168227	0.00020174 0.000209606 0.000217289 0.000225567 0.000125053 0.000122486 0.000119978	0.001302911 0.001332035 0.001360142 0.001388948 0.000749169 0.000751194 0.00075066	19.55782 19.6345 19.68063 19.6987 11.05115 11.34282 11.55545	2.79576 2.90033 3.0116 3.13029 1.76992 1.73152 1.69411	5.20507 5.44832 5.69167 5.9485 2.86639 2.7966 2.72863	3.27221 3.3998 3.52441 3.65868 2.02836 1.98671 1.94604
634724.2 634726.8 634729.4 634732 634726.8 634716 634705.2 634694.4	4255210.16 4255185.51 4255160.86 4255136.21 4255111.56 4255555.87 4255575.89 4255595.91 4255615.93	0.000680472 0.00068462 0.000687305 0.000688919 0.000689552 0.000386845 0.000397055 0.000404498 0.000406776	9.22784E-05 9.56451E-05 9.92225E-05 0.000103029 0.00010709 6.05503E-05 5.92366E-05 5.79568E-05 5.67098E-05	0.00030661 0.000320905 0.000335902 0.000350905 0.00036674 0.00017672 0.000172417 0.000168227 0.000164041	0.00020174 0.000209606 0.000217289 0.000225567 0.000125053 0.000122486 0.000119978 0.000117471	0.001302911 0.001332035 0.001360142 0.001388948 0.000749169 0.000751194 0.00075066 0.000744998	19.55782 19.6345 19.68063 19.6987 11.05115 11.34282 11.55545 11.62052	2.79576 2.90033 3.0116 3.13029 1.76992 1.73152 1.69411 1.65766	5.20507 5.44832 5.69167 5.9485 2.86639 2.7966 2.72863 2.66074	3.27221 3.3998 3.52441 3.65868 2.02836 1.98671 1.94604 1.90538
634724.2 634726.8 634729.4 634732 634726.8 634716 634705.2 634694.4 634661.9 634640.2	4255210.16 4255185.51 4255160.86 4255136.21 4255111.56 4255555.87 4255575.89 4255595.91 4255615.93 4255642.66 4255649.38	0.000680472 0.00068462 0.000687305 0.000688919 0.000689552 0.000386845 0.000397055 0.000404498 0.000406776 0.000424845 0.000438272	9.22784E-05 9.56451E-05 9.92225E-05 0.000103029 0.00010709 6.05503E-05 5.92366E-05 5.79568E-05 5.67098E-05 5.49145E-05 5.42939E-05	0.00030661 0.000320905 0.000335902 0.000350905 0.00036674 0.00017672 0.000172417 0.000168227 0.000164041 0.000158391 0.000156782	0.00020174 0.000209606 0.000217289 0.000225567 0.000125053 0.000122486 0.000119978 0.000117471 0.000114006 0.000112981	0.001302911 0.001332035 0.001360142 0.001388948 0.000749169 0.000751194 0.00075066 0.000744998 0.000752156 0.000762329	19.55782 19.6345 19.68063 19.6987 11.05115 11.34282 11.55545 11.62052 12.13671	2.79576 2.90033 3.0116 3.13029 1.76992 1.73152 1.69411 1.65766 1.60518 1.58704	5.20507 5.44832 5.69167 5.9485 2.86639 2.7966 2.72863 2.66074 2.5691 2.54299	3.27221 3.3998 3.52441 3.65868 2.02836 1.98671 1.94604 1.90538 1.84917 1.83255
634724.2 634726.8 634729.4 634732 634726.8 634716 634705.2 634694.4 634661.9 634640.2 634618.5	4255210.16 4255185.51 4255160.86 4255136.21 4255111.56 4255555.87 4255575.89 4255595.91 4255615.93 4255642.66 4255649.38 4255656.09	0.000680472 0.00068462 0.000687305 0.000688919 0.000689552 0.000397055 0.000404498 0.000406776 0.000424845 0.000438272 0.000440253	9.22784E-05 9.56451E-05 9.92225E-05 0.000103029 0.00010709 6.05503E-05 5.92366E-05 5.79568E-05 5.67098E-05 5.49145E-05 5.42939E-05 5.36391E-05	0.00030661 0.000320905 0.000335902 0.000350905 0.00036674 0.00017672 0.000172417 0.000168227 0.000164041 0.000158391 0.000156782 0.000155069	0.00020174 0.000209606 0.000217289 0.000225567 0.000125053 0.000122486 0.000119978 0.000117471 0.000114006 0.000112981 0.00011191	0.001302911 0.001332035 0.001360142 0.001388948 0.000749169 0.000751194 0.00075066 0.000744998 0.000752156 0.000762329 0.000760872	19.55782 19.6345 19.68063 19.6987 11.05115 11.34282 11.55545 11.62052 12.13671 12.5203 12.57689	2.79576 2.90033 3.0116 3.13029 1.76992 1.73152 1.69411 1.65766 1.60518 1.58704 1.5679	5.20507 5.44832 5.69167 5.9485 2.86639 2.7966 2.72863 2.66074 2.5691 2.54299 2.51522	3.27221 3.3998 3.52441 3.65868 2.02836 1.98671 1.94604 1.90538 1.84917 1.83255 1.81517
634724.2 634726.8 634729.4 634732 634726.8 634716 634705.2 634694.4 634661.9 634640.2 634618.5 634596.8	4255210.16 4255185.51 4255160.86 4255136.21 4255111.56 4255555.87 4255575.89 4255595.91 4255615.93 4255642.66 4255649.38 4255656.09 4255662.8	0.000680472 0.00068462 0.000687305 0.000688919 0.000689552 0.000386845 0.000397055 0.000404498 0.000406776 0.000424845 0.000438272 0.000440253 0.000431366	9.22784E-05 9.56451E-05 9.92225E-05 0.000103029 0.00010709 6.05503E-05 5.92366E-05 5.79568E-05 5.67098E-05 5.42939E-05 5.36391E-05 5.29549E-05	0.00030661 0.000320905 0.000335902 0.000350905 0.00036674 0.00017672 0.000172417 0.000168227 0.000164041 0.000158391 0.000156782 0.000155069 0.000153262	0.00020174 0.000209606 0.000217289 0.000225567 0.000125053 0.000122486 0.000119978 0.000117471 0.000114006 0.000112981 0.00011191 0.000110795	0.001302911 0.001332035 0.001360142 0.001388948 0.000749169 0.000751194 0.00075066 0.000744998 0.000752156 0.000762329 0.000760872 0.000748378	19.55782 19.6345 19.68063 19.6987 11.05115 11.34282 11.55545 11.62052 12.13671 12.5203 12.57689 12.32299	2.79576 2.90033 3.0116 3.13029 1.76992 1.73152 1.69411 1.65766 1.60518 1.58704 1.5679 1.5479	5.20507 5.44832 5.69167 5.9485 2.86639 2.7966 2.72863 2.66074 2.5691 2.54299 2.51522 2.48591	3.27221 3.3998 3.52441 3.65868 2.02836 1.98671 1.94604 1.90538 1.84917 1.83255 1.81517 1.79709
634724.2 634726.8 634729.4 634732 634726.8 634716 634705.2 634694.4 634661.9 634640.2 634618.5	4255210.16 4255185.51 4255160.86 4255136.21 4255111.56 4255555.87 4255575.89 4255595.91 4255615.93 4255642.66 4255649.38 4255656.09	0.000680472 0.00068462 0.000687305 0.000688919 0.000689552 0.000397055 0.000404498 0.000406776 0.000424845 0.000438272 0.000440253	9.22784E-05 9.56451E-05 9.92225E-05 0.000103029 0.00010709 6.05503E-05 5.92366E-05 5.79568E-05 5.67098E-05 5.49145E-05 5.42939E-05 5.36391E-05	0.00030661 0.000320905 0.000335902 0.000350905 0.00036674 0.00017672 0.000172417 0.000168227 0.000164041 0.000158391 0.000156782 0.000155069	0.00020174 0.000209606 0.000217289 0.000225567 0.000125053 0.000122486 0.000119978 0.000117471 0.000114006 0.000112981 0.00011191	0.001302911 0.001332035 0.001360142 0.001388948 0.000749169 0.000751194 0.00075066 0.000744998 0.000752156 0.000762329 0.000760872	19.55782 19.6345 19.68063 19.6987 11.05115 11.34282 11.55545 11.62052 12.13671 12.5203 12.57689	2.79576 2.90033 3.0116 3.13029 1.76992 1.73152 1.69411 1.65766 1.60518 1.58704 1.5679	5.20507 5.44832 5.69167 5.9485 2.86639 2.7966 2.72863 2.66074 2.5691 2.54299 2.51522	3.27221 3.3998 3.52441 3.65868 2.02836 1.98671 1.94604 1.90538 1.84917 1.83255 1.81517

634742.7	4255486.55	0.000392081	6.53385E-05	0.000193751	0.000134899	0.000786069	11.20072	1.90988	3.14264	2.18805
634745.3	4255461.9	0.000400397	6.71818E-05	0.000200696	0.000138815	0.00080709	11.43831	1.96376	3.25528	2.25157
634747.9	4255437.25	0.000408698	6.91143E-05	0.000208078	0.000142935	0.000828825	11.67545	2.02025	3.37501	2.3184
634750.5	4255412.6	0.000416897	7.11413E-05	0.000215895	0.000147265	0.000851198	11.90966	2.0795	3.50181	2.38863
634753.1	4255387.95	0.000424893	7.32696E-05	0.000224162	0.000151815	0.00087414	12.13808	2.14171	3.6359	2.46244
634755.7	4255363.3	0.000432541	7.55069E-05	0.000232956	0.00015662	0.000897624	12.35657	2.20711	3.77853	2.54037
634758.3	4255338.65	0.00043974	7.7861E-05	0.000242296	0.000161676	0.000921572	12.56222	2.27592	3.93003	2.62237
634760.9	4255314	0.000446395	8.03409E-05	0.00025225	0.000167023	0.000946009	12.75233	2.34841	4.09148	2.70911
634763.5	4255289.35	0.000440333	8.29594E-05	0.00023223	0.0001772859	0.000971344	12.92188	2.42495	4.26902	2.80377
634766.1	4255264.7	0.000457538	8.57243E-05	0.000203190	0.000172839	0.000971344	13.07067	2.50577	4.46219	2.90496
634768.7	4255240.05	0.000462127	8.86439E-05	0.000287683	0.000185718	0.001024172	13.20177	2.59111	4.6662	3.01234
634771.3	4255215.4	0.000466285	9.17331E-05	0.000300466	0.000192486	0.001050971	13.32056	2.68141	4.87355	3.12212
634773.9	4255190.75	0.000469583	9.50064E-05	0.000314064	0.000199641	0.001078294	13.41475	2.77709	5.0941	3.23817
634776.5	4255166.1	0.000472279	9.84781E-05	0.00032851	0.000207245	0.001106512	13.49178	2.87857	5.32841	3.36151
634779.1	4255141.45	0.000474205	0.000102161	0.000342918	0.000214997	0.00113428	13.5468	2.98622	5.56211	3.48724
634781.7	4255116.8	0.000475498	0.000106077	0.000358103	0.000223055	0.001162733	13.58375	3.1007	5.80841	3.61794
634777	4255560.16	0.000297899	6.03919E-05	0.000174605	0.000124252	0.000657149	8.51021	1.76529	2.83208	2.01537
634766.7	4255579.23	0.000305299	5.9199E-05	0.000170677	0.000121863	0.000657038	8.7216	1.73042	2.76838	1.97661
634756.5	4255598.29	0.000312191	5.80338E-05	0.000166741	0.000119472	0.000656438	8.91849	1.69636	2.70453	1.93783
634746.2	4255617.36	0.000317824	5.68963E-05	0.000162976	0.000117177	0.000654873	9.0794	1.66311	2.64347	1.9006
634736	4255636.43	0.000321254	5.57858E-05	0.000159449	0.000115011	0.0006515	9.17738	1.63065	2.58625	1.86548
634725.7	4255655.5	0.000321234	5.4701E-05	0.000155813	0.000113011	0.000645045	9.19137	1.59894	2.52728	1.82941
634694.7	4255680.96	0.000334133	5.31848E-05	0.000151145	0.000109837	0.0006483	9.54532	1.55462	2.45156	1.78155
634674.1	4255687.35	0.000345781	5.26945E-05	0.000149923	0.000109016	0.000657415	9.87807	1.54029	2.43174	1.76824
634653.4	4255693.75	0.000352409	5.21704E-05	0.000148598	0.000108147	0.000661325	10.06742	1.52497	2.41025	1.75414
634632.7	4255700.14	0.0003535	5.16152E-05	0.000147183	0.000107235	0.000659533	10.09857	1.50874	2.3873	1.73935
634612	4255706.53	0.000349297	5.10312E-05	0.000145682	0.000106284	0.000652294	9.9785	1.49167	2.36296	1.72392
634591.3	4255712.93	0.000340998	5.04243E-05	0.000144109	0.000105297	0.000640829	9.74143	1.47393	2.33744	1.70792
634787.3	4255541.09	0.000290286	6.16146E-05	0.000178722	0.000126748	0.000657371	8.29272	1.80103	2.89887	2.05585
634789.9	4255516.44	0.000294785	6.32612E-05	0.000184449	0.000130097	0.000672592	8.42123	1.84916	2.99176	2.11016
634792.5	4255491.79	0.000299232	6.49847E-05	0.000190744	0.000133733	0.000688694	8.54828	1.89954	3.09386	2.16915
634795.1	4255467.14	0.000303742	6.67873E-05	0.000197413	0.000137552	0.000705494	8.67711	1.95223	3.20203	2.23109
634797.7	4255442.49	0.000308285	6.8674E-05	0.000204453	0.000141555	0.000722967	8.8069	2.00738	3.31622	2.29601
634800.3	4255417.84	0.000312821	7.06497E-05	0.000204433	0.000141333	0.000741036	8.93648	2.06513	3.43597	2.36372
634802.9	4255393.19	0.000317278	7.27212E-05	0.000219696	0.000150135	0.000759831	9.06381	2.12568	3.56346	2.43519
634805.5	4255368.54	0.000321595	7.48966E-05	0.0002282	0.000154857	0.000779549	9.18714	2.18927	3.70139	2.51178
634808.1	4255343.89	0.000325798	7.71795E-05	0.000237087	0.00015978	0.000799845	9.30721	2.256	3.84554	2.59162
634810.7	4255319.24	0.000329791	7.95797E-05	0.000246627	0.000164998	0.000820995	9.42126	2.32616	4.00028	2.67626
634813.3	4255294.6	0.000333526	8.21038E-05	0.000256851	0.000170566	0.000843047	9.52796	2.39994	4.16612	2.76657
634815.9	4255269.95	0.000336964	8.4762E-05	0.000267829	0.000176502	0.000866058	9.62619	2.47764	4.34418	2.86286
634818.5	4255245.3	0.000340141	8.75625E-05	0.000279228	0.000182698	0.00088963	9.71695	2.5595	4.52906	2.96336
634821.1	4255220.65	0.000342899	9.05159E-05	0.000291116	0.000189097	0.000913628	9.79573	2.64583	4.72189	3.06715
634823.7	4255196	0.000345377	9.36346E-05	0.000303718	0.000195976	0.000938706	9.86653	2.73699	4.92629	3.17872
634826.3	4255171.35	0.000347467	9.69301E-05	0.000317058	0.000203234	0.000964688	9.92623	2.83332	5.14266	3.29644
634828.9	4255146.7	0.000349139	0.000100414	0.00033095	0.00021085	0.000991353	9.97399	2.93517	5.368	3.41997
634831.5	4255122.05	0.000350476	0.000104106	0.00033553	0.000218928	0.001019092	10.01218	3.04308	5.60533	3.551
634825.8	4255567.19	0.000330470	5.98271E-05	0.000343382	0.000218528	0.001013032	6.84715	1.74878	2.77157	1.98852
634814.5	4255588.05	0.000245935	5.85972E-05	0.00016687	0.000120097	0.000591499	7.02571	1.71283	2.70662	1.94797
634803.3	4255608.9	0.000251935	5.73958E-05	0.00016295	0.000117651	0.000589932	7.19712	1.67771	2.64304	1.9083
634792.1	4255629.76	0.000257371	5.6222E-05	0.000159114	0.000115257	0.000587964	7.35242	1.6434	2.58082	1.86946
634780.9	4255650.61	0.000261683	5.50773E-05	0.000155525	0.000113006	0.000585292	7.47561	1.60994	2.52261	1.83295
634769.6	4255671.47	0.000264337	5.39596E-05	0.00015199	0.000110788	0.000581075	7.55143	1.57727	2.46527	1.79698
634758.4	4255692.32	0.000264806	5.2869E-05	0.000148412	0.000108548	0.000574635	7.56481	1.54539	2.40723	1.76065
634724.6	4255720.17	0.000275163	5.13907E-05	0.000143992	0.000105667	0.000576213	7.86068	1.50218	2.33555	1.71391
634701.9	4255727.16	0.000285071	5.09416E-05	0.000142929	0.000104911	0.000583853	8.14374	1.48905	2.31831	1.70165
634679.3	4255734.16	0.000291712	5.04558E-05	0.000141745	0.000104096	0.000588008	8.33344	1.47485	2.29909	1.68843
634656.7	4255741.15	0.000294662	4.9934E-05	0.000140451	0.00010323	0.000588277	8.41772	1.4596	2.27811	1.67438
634634.1	4255748.14	0.00029377	4.93768E-05	0.000139058	0.000102315	0.000584519	8.39223	1.44331	2.25551	1.65955
634611.4	4255755.14	0.000289327	4.8787E-05	0.000137572	0.000101355	0.000577042	8.26533	1.42607	2.23141	1.64398
634588.8	4255762.13	0.000282208	4.81722E-05	0.000136011	0.00010036	0.000566752	8.06196	1.4081	2.20609	1.62784
634837	4255546.33	0.000232200	6.1084E-05	0.000174956	0.00012515	0.000594591	6.66766	1.78552	2.83778	2.02992
634839.6	4255521.68	0.000235943	6.26847E-05	0.00017 1550	0.000128528	0.000607803	6.74029	1.83231	2.93008	2.08472
634842.2	4255497.04	0.000233343	6.43535E-05	0.000186626	0.000128328	0.000621524	6.81316	1.88109	3.02706	2.14186
634844.8	4255472.39	0.000230434	6.60959E-05	0.000190929	0.000132031	0.000635824	6.88695	1.93202	3.12909	2.20161
634847.4	4255472.39	0.000241077	6.79149E-05	0.000192916	0.000135735	0.000653824	6.9617	1.93202	3.12909	2.26388
634850	4255423.09	0.000246305	6.98153E-05	0.000206442	0.000143589	0.000666151	7.03628	2.04074	3.34848	2.32901
634852.6	4255398.44	0.000248871	7.18029E-05	0.000213819	0.000147832	0.000682325	7.1096	2.09884	3.46813	2.39783
634855.2	4255373.79	0.000251382	7.38819E-05	0.000221599	0.000152275	0.000699138	7.18134	2.15961	3.59433	2.46989
634857.8	4255349.14	0.000253821	7.60584E-05	0.000229809	0.00015696	0.000716648	7.251	2.22323	3.72749	2.54588
634860.4	4255324.49	0.000256136	7.83389E-05	0.000238705	0.000161992	0.000735172	7.31714	2.28989	3.87179	2.6275
634863	4255299.84	0.000258323	8.07282E-05	0.000248157	0.000167332	0.00075454	7.37961	2.35973	4.02509	2.71412
634865.6	4255275.19	0.000260399	8.32331E-05	0.000257797	0.000172787	0.000774216	7.43891	2.43295	4.18146	2.80259
634868.2	4255250.54	0.000262297	8.58612E-05	0.000267961	0.000178507	0.000794626	7.49313	2.50977	4.34631	2.89538
634870.8	4255225.89	0.000264055	8.86213E-05	0.000278669	0.000184619	0.000815964	7.54337	2.59045	4.52	2.99451
634873.4	4255201.24	0.000265622	9.1522E-05	0.000289936	0.000191063	0.000838143	7.58813	2.67524	4.70275	3.09903
634876	4255176.59	0.000266967	9.45716E-05	0.000301765	0.000197877	0.00086118	7.62655	2.76438	4.89461	3.20956
634878.6	4255151.94	0.000268066	9.77802E-05	0.000314142	0.000205123	0.000885111	7.65794	2.85817	5.09537	3.32709
634881.2	4255127.29	0.000268813	0.000101152	0.000326779	0.000212776	0.00090952	7.6793	2.95672	5.30034	3.45121
634875.9	4255571.6	0.000208813	5.91966E-05	0.000320773	0.000212770	0.00054419	5.63609	1.73035	2.70616	1.96036
634865.2	4255591.62	0.000197291	5.80981E-05	0.000168841	0.000120861	0.000542096	5.77426	1.73033	2.64866	1.92326
634854.4	4255611.64	0.000206893	5.70153E-05	0.000159799	0.000116325	0.000540033	5.9104	1.66659	2.59194	1.88679
634843.6	4255631.66	0.000211458	5.59521E-05	0.000156467	0.000114179	0.000538055	6.04079	1.63551	2.53788	1.85198
634832.8	4255651.69	0.00021565	5.4908E-05	0.00015323	0.000112096	0.000535885	6.16056	1.60499	2.48539	1.8182
634822.1	4255671.71	0.000219278	5.38847E-05	0.000150031	0.000110041	0.000533235	6.26421	1.57508	2.43349	1.78486
634811.3	4255691.73	0.000221985	5.2883E-05	0.000147034	0.000108108	0.00053001	6.34153	1.5458	2.38489	1.7535
634800.5	4255711.75	0.000223564	5.19019E-05	0.000143936	0.00010612	0.000525522	6.38665	1.51712	2.33463	1.72126
634789.7	4255731.77	0.000223736	5.09419E-05	0.000140883	0.000104161	0.000519722	6.39155	1.48906	2.28512	1.68949

634757.2	4255758.51	0.000231661	4.96744E-05	0.000137245	0.000101708	0.000520288	6.61796	1.45201	2.2261	1.6497
634735.5	4255765.22	0.000239586	4.93186E-05	0.000136477	0.000101116	0.000526498	6.84436	1.44161	2.21365	1.6401
634713.8	4255771.93	0.000245778	4.89344E-05	0.000135598	0.00010047	0.000530781	7.02125	1.43038	2.19939	1.62962
634692.1	4255778.64	0.000249969	4.85201E-05	0.000134616	9.97734E-05	0.000532878	7.14096	1.41827	2.18346	1.61832
634670.3	4255785.36	0.000251978	4.80747E-05	0.000133537	9.90292E-05	0.000532619	7.19836	1.40525	2.16596	1.60625
634648.6	4255792.07	0.000251758	4.75992E-05	0.000132372	9.82438E-05	0.000529973	7.19207	1.39135	2.14707	1.59351
634626.9	4255798.78	0.000249367	4.70942E-05	0.000131129	9.74189E-05	0.000525009	7.12377	1.37659	2.1269	1.58013
634605.2	4255805.5	0.000245113	4.65629E-05	0.000129812	9.65582E-05	0.000518046	7.00224	1.36106	2.10555	1.56617
634583.5	4255812.21	0.000239332	4.60104E-05	0.000128434	9.56667E-05	0.000509443	6.83709	1.34491	2.08319	1.55171
634886.7	4255551.58	0.000192472	6.03095E-05	0.000170396	0.000123168	0.000546345	5.49841	1.76288	2.76381	1.99778
634889.3	4255526.93	0.000193951	6.18415E-05	0.000175715	0.000126407	0.000557914	5.54066	1.80766	2.85009	2.05032
634891.9	4255502.28	0.000195446	6.3435E-05	0.000181175	0.000129719	0.000569774	5.58337	1.85424	2.93865	2.10403
634894.5	4255477.63	0.000196949	6.50925E-05	0.000186875	0.000133163	0.000582079	5.62631	1.90269	3.0311	2.1599
634897.1	4255452.98	0.000198441	6.68188E-05	0.000192996	0.000136841	0.000595097	5.66894	1.95315	3.13038	2.21956
634899.7	4255428.33	0.000199952	6.86152E-05	0.000199233	0.000140585	0.000608386	5.71211	2.00566	3.23155	2.28029
			7.04886E-05	0.000206131		0.000622706		2.06042		
634902.3	4255403.68	0.000201397			0.00014469		5.75338		3.34343	2.34686
634904.9	4255379.03	0.000202808	7.24406E-05	0.00021331	0.000148955	0.000637514	5.7937	2.11748	3.45988	2.41604
634907.5	4255354.38	0.000204172	7.44755E-05	0.000220796	0.0001534	0.000652843	5.83265	2.17696	3.5813	2.48814
634910.1	4255329.73	0.000205464	7.65979E-05	0.000228631	0.000158056	0.000668749	5.86957	2.239	3.70838	2.56366
634912.7	4255305.09	0.000206652	7.88107E-05	0.000236756	0.0001629	0.00068512	5.90352	2.30368	3.84018	2.64223
634915.3	4255280.44	0.000207801	8.11226E-05	0.000245271	0.000168	0.000702194	5.93633	2.37126	3.97828	2.72495
634917.9	4255255.79	0.000208858	8.35372E-05	0.000254169	0.00017339	0.000719954	5.96652	2.44184	4.12261	2.81238
634920.5	4255231.14	0.000209805	8.60606E-05	0.000263452	0.000179016	0.000738334	5.99359	2.5156	4.27318	2.90363
634923.1	4255206.49	0.00021063	8.86986E-05	0.000273112	0.00018497	0.000757411	6.01715	2.59271	4.42987	3.00021
634925.7	4255181.84	0.000211319	9.14574E-05	0.000283133	0.000191255	0.000777164	6.03684	2.67335	4.59241	3.10214
		0.00021186	9.43444E-05	0.000293484		0.000797504		2.75774		3.20857
634928.3	4255157.19				0.000197816		6.05228		4.7603	
634930.9	4255132.54	0.000212221	9.73652E-05	0.00030412	0.000204799	0.000818505	6.06259	2.84604	4.93282	3.32183
634975.1	4255582.6	0.000140941	5.70454E-05	0.000155456	0.000115571	0.000469013	4.02632	1.66747	2.52149	1.87455
634964.1	4255603.14	0.00014441	5.61474E-05	0.000152881	0.000113707	0.000467145	4.12541	1.64122	2.47972	1.84433
634953	4255623.67	0.00014788	5.5247E-05	0.000150284	0.000111857	0.000465269	4.22456	1.6149	2.4376	1.81432
634942	4255644.21	0.000151318	5.43452E-05	0.000147672	0.000110019	0.000463355	4.32276	1.58854	2.39524	1.78451
634930.9	4255664.74	0.000151618	5.34458E-05	0.000145058	0.000110019	0.000461362	4.41819	1.56225	2.35284	1.75499
634919.9	4255685.28	0.000157856	5.25498E-05	0.000142447	0.000106395	0.000459249	4.50954	1.53606	2.31049	1.72573
634908.8	4255705.81	0.000160836	5.1661E-05	0.000139849	0.000104614	0.00045696	4.59467	1.51008	2.26834	1.69683
634897.8	4255726.35	0.000163493	5.07801E-05	0.000137267	0.000102852	0.000454392	4.67058	1.48433	2.22647	1.66825
634886.7	4255746.88	0.000165713	4.99098E-05	0.000134709	0.000101114	0.000451447	4.734	1.45889	2.18498	1.64007
634875.6	4255767.42	0.00016736	4.90511E-05	0.000132177	9.93992E-05	0.000447988	4.78105	1.43379	2.14391	1.61225
634864.6	4255787.95	0.000168325	4.82057E-05	0.000129675	9.77093E-05	0.000443916	4.80862	1.40908	2.10333	1.58484
		0.000168522				0.000439149				
634853.5	4255808.48		4.73744E-05	0.000127208	9.60453E-05		4.81422	1.38478	2.06331	1.55785
634820.2	4255835.9	0.000174197	4.63258E-05	0.000124509	9.40872E-05	0.000439119	4.97635	1.35413	2.01953	1.52609
634797.9	4255842.79	0.000179841	4.6071E-05	0.000124127	9.37086E-05	0.000443748	5.1376	1.34668	2.01333	1.51995
634775.7	4255849.68	0.000184708	4.57949E-05	0.000123635	9.32734E-05	0.000447411	5.27662	1.33861	2.00535	1.51289
634753.4	4255856.56	0.000188691	4.54966E-05	0.00012304	9.27857E-05	0.000450014	5.39041	1.32989	1.99571	1.50498
634731.1	4255863.45	0.000191683	4.5174E-05	0.000122346	9.22475E-05	0.000451451	5.47588	1.32046	1.98445	1.49625
634708.8	4255870.33	0.000193618	4.48267E-05	0.000121561	9.1663E-05	0.000451669	5.53115	1.31031	1.97172	1.48677
634686.5	4255877.22	0.000194414	4.44525E-05	0.00012069	9.10342E-05	0.000450591	5.55391	1.29937	1.95759	1.47657
634664.2	4255884.1	0.000194052	4.40515E-05	0.000119741	9.03665E-05	0.000448211	5.54355	1.28765	1.9422	1.46574
634642	4255890.99	0.000192563	4.36228E-05	0.00011872	8.96612E-05	0.000444567	5.50101	1.27512	1.92564	1.4543
634619.7	4255897.87	0.000190077	4.31689E-05	0.000117635	8.89232E-05	0.000439805	5.43001	1.26185	1.90804	1.44233
634597.4	4255904.76	0.000186744	4.26916E-05	0.00011649	8.8155E-05	0.000434081	5.33479	1.2479	1.88947	1.42987
634575.1	4255911.64	0.000182692	4.21959E-05	0.000115294	8.73609E-05	0.000427543	5.21904	1.23341	1.87007	1.41699
634986.2	4255562.07	0.000137499	5.79377E-05	0.000157996	0.000117441	0.000470874	3.928	1.69355	2.56269	1.90488
634988.8	4255537.42	0.000137902	5.92774E-05	0.000162373	0.000120312	0.000479865	3.93951	1.73271	2.63369	1.95145
634991.4	4255512.77	0.000138296	6.06619E-05	0.000166914	0.000123289	0.000489161	3.95075	1.77318	2.70733	1.99975
634994	4255488.12	0.000138683	6.20929E-05	0.000171619	0.00012638	0.000498775	3.9618	1.81501	2.78366	2.04988
634996.6	4255463.47	0.000139048	6.35725E-05	0.000176494	0.000129588	0.000508703	3.97225	1.85826	2.86273	2.10191
634999.2	4255438.82	0.000139404	6.51024E-05	0.000181539	0.00013292	0.000518966	3.98242	1.90298	2.94456	2.15595
635001.8	4255414.17	0.000139736	6.66854E-05	0.000186758	0.000136377	0.000529556	3.99188	1.94925	3.0292	2.21203
635001.8	4255389.52	0.000133730	6.8322E-05	0.000192142	0.000130377	0.000525550	4.00027	1.99709		2.27035
									3.11654	
635007	4255364.87	0.000140308	7.00171E-05	0.000197698	0.000143714	0.000551737	4.00823	2.04664	3.20666	2.33103
635009.6	4255340.22	0.000140546	7.17718E-05	0.000203416	0.000147595	0.000563329	4.01503	2.09793	3.2994	2.39399
635012.2	4255315.57	0.000140737	7.35891E-05	0.000209284	0.000151642	0.000575251	4.02048	2.15105	3.39457	2.45962
635014.8	4255290.93	0.000140862	7.5469E-05	0.00021528	0.000155831	0.000587442	4.02406	2.206	3.49183	2.52758
635017.4	4255266.28	0.000140917	7.74145E-05	0.000221237	0.00016015	0.000599718	4.02563	2.26287	3.58845	2.59762
635020	4255241.63	0.000140943	7.94343E-05	0.000227432	0.000164699	0.000612508	4.02637	2.32191	3.68893	2.67141
	4255216.98									
635022.6		0.000140906	8.1527E-05	0.000233681	0.000169414	0.000625528	4.02531	2.38308	3.7903	2.74788
635025.2	4255192.33	0.000140801	8.36946E-05	0.00023994	0.000174343	0.000638779	4.02232	2.44644	3.89182	2.82784
635027.8	4255167.68	0.000140624	8.59395E-05	0.000246155	0.000179422	0.00065214	4.01725	2.51206	3.99262	2.91022
635030.4	4255143.03	0.000140367	8.82624E-05	0.000252257	0.000173722	0.00065641	4.00993	2.57996	4.0916	2.99671
635074.4	4255593.41	0.000105118	5.39155E-05	0.000141561	0.00010877	0.000409366	3.00296	1.57598	2.29612	1.76425
635063.2	4255614.27	0.000107755	5.32552E-05	0.00013991	0.000107326	0.000408246	3.07827	1.55668	2.26933	1.74083
635051.9	4255635.13	0.0001104	5.25823E-05	0.000138175	0.000105869	0.000407026	3.15383	1.53701	2.2412	1.71719
635040.7	4255655.98	0.000113049	5.18988E-05	0.000136378	0.000104405	0.000405732	3.22952	1.51703	2.21205	1.69345
635029.5	4255676.84	0.000115679	5.1204E-05	0.000134524	0.000102934	0.000404341	3.30465	1.49672	2.18197	1.66959
635018.3	4255697.69	0.000118273	5.05013E-05	0.000132627	0.000101463	0.000402864	3.37875	1.47618	2.1512	1.64573
635007	4255718.55	0.000120796	4.979E-05	0.000130695	9.9991E-05	0.000401272	3.45084	1.45539	2.11986	1.62185
634995.8	4255739.4	0.000123224	4.9074E-05	0.000128738	9.85243E-05	0.00039956	3.52018	1.43446	2.08813	1.59806
634984.6	4255760.26	0.000125504	4.83532E-05	0.000126762	9.70619E-05	0.000397682	3.58533	1.41339	2.05608	1.57434
634973.4	4255781.11	0.000127594	4.7631E-05	0.000124777	9.56075E-05	0.00039561	3.64504	1.39228	2.02388	1.55075
634962.1	4255801.97	0.000129437	4.69081E-05	0.000122786	9.4163E-05	0.000393295	3.69768	1.37115	1.99159	1.52732
634950.9	4255822.82	0.000130964	4.61869E-05	0.000120797	9.27296E-05	0.000390677	3.74129	1.35007	1.95932	1.50407
634939.7	4255843.68	0.000132092	4.54685E-05	0.000118809	9.13067E-05	0.000387676	3.77352	1.32907	1.92708	1.48099
634928.5	4255864.54	0.000132838	4.47552E-05	0.000116832	8.98985E-05	0.000384304	3.79426	1.30822	1.89501	1.45815
634917.2	4255885.39	0.000133079	4.40488E-05	0.000114867	8.85052E-05	0.0003805	3.80172	1.28757	1.86314	1.43555
634883.4	4255913.24	0.00013743	4.31966E-05	0.000112939	8.69842E-05	0.000380549	3.92601	1.26266	1.83186	1.41088
634860.8	4255920.23	0.000141657	4.30204E-05	0.000112857	8.67863E-05	0.000384321	4.04678	1.25751	1.83053	1.40767
634838.1	4255927.23	0.000141037	4.2823E-05	0.000112674	8.65323E-05	0.000387499	4.15571	1.25174	1.82756	1.40355
034030.1	-1 233721.23	0.0001434/	-1.2023E-U3	0.0001120/4	0.0JJZ3E - U3	0.00030/433	4.133/1	1.231/4	1.02/30	1.40333

634815.5	4255934.22	0.000148821	4.26071E-05	0.000112393	8.62271E-05	0.000390048	4.25142	1.24543	1.82301	1.3986
634792.9	4255941.21	0.00015167	4.23731E-05	0.000111987	8.58523E-05	0.000391883	4.33283	1.23859	1.81642	1.39252
634770.2	4255948.2	0.000153972	4.21206E-05	0.000111486	8.54269E-05	0.000393006	4.39858	1.23121	1.8083	1.38562
634747.6	4255955.2	0.000155677	4.18487E-05	0.000110899	8.49552E-05	0.00039338	4.4473	1.22326	1.79877	1.37797
634725	4255962.19	0.000156737	4.15565E-05	0.000110275	8.44688E-05	0.000393037	4.47756	1.21472	1.78866	1.37008
634702.4	4255969.18	0.000157093	4.12425E-05	0.00010965	8.39873E-05	0.000391973	4.48774	1.20554	1.77852	1.36227
634679.7	4255976.18	0.000156775	4.09041E-05	0.000108839	8.33979E-05	0.000389916	4.47865	1.19565	1.76537	1.35271
634657.1	4255983.17	0.000155774	4.05422E-05	0.000108017	8.28073E-05	0.00038714	4.45005	1.18507	1.75203	1.34313
634634.5	4255990.16	0.00015416	4.01563E-05	0.000107161	8.22006E-05	0.000383678	4.40394	1.17379	1.73815	1.33329
634611.9	4255997.16	0.000152029	3.97481E-05	0.000106211	8.15403E-05	0.000379528	4.34308	1.16186	1.72273	1.32258
634589.2	4256004.15	0.00014945	3.93202E-05	0.000105212	8.08553E-05	0.000374838	4.26941	1.14935	1.70654	1.31147
634566.6	4256011.14	0.000146469	3.88761E-05	0.000104172	8.01476E-05	0.000369665	4.18425	1.13637	1.68967	1.29999
635085.6	4255572.56	0.000102503	5.45621E-05	0.000143118	0.000110196	0.000410379	2.92824	1.59488	2.32136	1.78738
635088.2	4255547.91	0.000102435	5.56818E-05	0.00014645	0.000112632	0.000417199	2.92631	1.62761	2.37541	1.82688
635090.8	4255523.26	0.000102351	5.6833E-05	0.000149854	0.000115141	0.00042418	2.9239	1.66126	2.43063	1.86759
635093.4	4255498.61	0.000102253	5.80174E-05	0.000153325	0.000117726	0.000431322	2.9211	1.69588	2.48693	1.90951
635096	4255473.96	0.000102143	5.92353E-05	0.000156857	0.000120389	0.000438623	2.91795	1.73148	2.54421	1.9527
635098.6	4255449.31	0.00010202	6.04884E-05	0.000160439	0.000123132	0.00044608	2.91445	1.76811	2.60232	1.99719
635101.2	4255424.66	0.000101884	6.17775E-05	0.000164066	0.000125953	0.000453681	2.91057	1.80579	2.66114	2.04296
635103.8	4255400.01	0.000101731	6.31038E-05	0.00016772	0.000128861	0.000461415	2.90618	1.84456	2.72041	2.09012
635106.4	4255375.36	0.000101554	6.44685E-05	0.000171388	0.000131851	0.000469261	2.90112	1.88445	2.77991	2.13862
635109	4255350.71	0.000101348	6.58722E-05	0.00017505	0.000134927	0.000477197	2.89526	1.92548	2.8393	2.18851
635111.6	4255326.06	0.000101112	6.73148E-05	0.000178683	0.000138089	0.000485198	2.8885	1.96765	2.89823	2.23979
635114.2	4255301.42	0.00010084	6.87968E-05	0.000182258	0.000141335	0.00049323	2.88073	2.01097	2.95622	2.29245
635116.8	4255276.77	0.00010053	7.03189E-05	0.000185745	0.000144666	0.000501259	2.87187	2.05546	3.01277	2.34647
635119.4	4255252.12	0.000100178	7.18792E-05	0.000189106	0.000148085	0.000509248	2.86183	2.10107	3.06729	2.40193
635122	4255227.47	9.9784E-05	7.34762E-05	0.000192294	0.00015158	0.000517134	2.85057	2.14775	3.119	2.45862
635124.6	4255202.82	9.93444E-05	7.5108E-05	0.000195259	0.000155161	0.000524873	2.83801	2.19545	3.1671	2.51671
635127.2	4255178.17	9.88575E-05	7.6771E-05	0.000197944	0.000158807	0.00053238	2.8241	2.24406	3.21065	2.57584
635129.8	4255153.52	9.83205E-05	7.846E-05	0.000200288	0.000162527	0.000539596	2.80876	2.29343	3.24867	2.63618
635173.7	4255604.12	8.07137E-05	5.01629E-05	0.000126328	0.000100915	0.000358119	2.30578	1.46629	2.04903	1.63683
635162.4	4255625.2	8.27839E-05	4.97021E-05	0.000125543	9.98979E-05	0.000357927	2.36492	1.45282	2.0363	1.62034
635151	4255646.27	8.48663E-05	4.9229E-05	0.000124638	9.8848E-05	0.000357582	2.42441	1.43899	2.02163	1.60331
635139.7	4255667.35	8.69596E-05	4.87432E-05	0.000123627	9.77691E-05	0.000357099	2.48421	1.42479	2.00522	1.58581
	4255688.42	8.90571E-05	4.82461E-05	0.000122523		0.000356494				1.56795
635128.4					9.6668E-05		2.54413	1.41026	1.98732	
635117	4255709.5	9.11504E-05	4.77367E-05	0.000121336	9.55459E-05	0.000355769	2.60393	1.39537	1.96807	1.54975
635105.7	4255730.57	9.32231E-05	4.7216E-05	0.00012008	9.44078E-05	0.000354927	2.66314	1.38015	1.94769	1.53129
635094.3	4255751.65	9.52632E-05	4.6684E-05	0.00011876	9.32555E-05	0.000353963	2.72142	1.3646	1.92628	1.5126
635083	4255772.72	9.72563E-05	4.61425E-05	0.000117391	9.20952E-05	0.000352885	2.77836	1.34877	1.90408	1.49378
635071.6	4255793.8	9.9176E-05	4.55903E-05	0.000115976	9.09256E-05	0.000351668	2.8332	1.33263	1.88112	1.47481
635060.3	4255814.87	0.000101001	4.50292E-05	0.000114524	8.97524E-05	0.000350307	2.88533	1.31623	1.85758	1.45578
635048.9	4255835.95	0.000102702	4.44607E-05	0.000113044	8.85755E-05	0.000348782	2.93393	1.29961	1.83357	1.43669
635037.6	4255857.02	0.000104244	4.38852E-05	0.000111539	8.73985E-05	0.000347067	2.97797	1.28279	1.80916	1.4176
635026.3	4255878.1	0.000105595	4.3304E-05	0.000110016	8.62222E-05	0.000345137	3.01657	1.2658	1.78446	1.39852
635014.9	4255899.17	0.000106722	4.2719E-05	0.00010848	8.50489E-05	0.00034297	3.04877	1.2487	1.75954	1.37949
635003.6	4255920.25	0.000107593	4.21309E-05	0.000106935	8.388E-05	0.000340539	3.07365	1.23151	1.73448	1.36053
634992.2	4255941.32	0.000108178	4.15418E-05	0.000105385	8.27166E-05	0.000337821	3.09036	1.21429	1.70934	1.34166
634980.9	4255962.4	0.000108461	4.09527E-05	0.000103833	8.15588E-05	0.000334805	3.09846	1.19707	1.68416	1.32288
634946.7	4255990.54	0.000111954	4.02866E-05	0.000102511	8.04077E-05	0.00033516	3.19824	1.1776	1.66273	1.30421
634923.8	4255997.61	0.000115244	4.01802E-05	0.000102648	8.03523E-05	0.000338425	3.29222	1.17449	1.66495	1.30331
634900.9	4256004.67	0.000118292	4.00502E-05	0.000102696	8.02474E-05	0.000341286	3.3793	1.17069	1.66573	1.30161
							3.3/33			
634878.1	4256011.74	0.000121065	3.98993E-05	0.000102656	8.00927E-05	0 0002/2712				1.2991
634855.2	4256018.81					0.000343713	3.45851	1.16628	1.66508	1.2331
634832.3		0.000123545	3.97303E-05	0.000102531	7.98911E-05	0.000343713		1.16628 1.16134	1.66508 1.66305	1.29583
	4256025 87					0.000345698	3.45851 3.52937	1.16134	1.66305	1.29583
634809.5	4256025.87	0.00012573	3.95449E-05	0.000102225	7.9581E-05	0.000345698 0.000347081	3.45851 3.52937 3.59178	1.16134 1.15592	1.66305 1.65809	1.29583 1.2908
	4256032.94	0.00012573 0.000127565	3.95449E-05 3.93444E-05	0.000102225 0.0001019	7.9581E-05 7.92653E-05	0.000345698 0.000347081 0.000348075	3.45851 3.52937 3.59178 3.64419	1.16134 1.15592 1.15006	1.66305 1.65809 1.65282	1.29583 1.2908 1.28568
634786.6		0.00012573	3.95449E-05	0.000102225	7.9581E-05	0.000345698 0.000347081	3.45851 3.52937 3.59178	1.16134 1.15592	1.66305 1.65809	1.29583 1.2908
	4256032.94 4256040.01	0.00012573 0.000127565 0.000129035	3.95449E-05 3.93444E-05 3.91293E-05	0.000102225 0.0001019 0.000101535	7.9581E-05 7.92653E-05 7.89312E-05	0.000345698 0.000347081 0.000348075 0.000348631	3.45851 3.52937 3.59178 3.64419 3.68619	1.16134 1.15592 1.15006 1.14377	1.66305 1.65809 1.65282 1.6469	1.29583 1.2908 1.28568 1.28026
634763.7	4256032.94 4256040.01 4256047.07	0.00012573 0.000127565 0.000129035 0.000130114	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05	0.000102225 0.0001019 0.000101535 0.000101099	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701	1.16134 1.15592 1.15006 1.14377 1.13702	1.66305 1.65809 1.65282 1.6469 1.63982	1.29583 1.2908 1.28568 1.28026 1.2742
634763.7 634740.9	4256032.94 4256040.01 4256047.07 4256054.14	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000348148	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752
634763.7 634740.9 634718	4256032.94 4256040.01 4256047.07 4256054.14 4256061.21	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05	0.000102225 0.0001019 0.000101535 0.000101099	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000348148 0.000347007	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122	1.66305 1.65809 1.65282 1.6469 1.63982	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992
634763.7 634740.9	4256032.94 4256040.01 4256047.07 4256054.14	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000348148	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752
634763.7 634740.9 634718 634695.1	4256032.94 4256040.01 4256047.07 4256054.14 4256061.21 4256068.27	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000130699	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000347007 0.000345297	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518
634763.7 634740.9 634718 634695.1 634672.3	4256032.94 4256040.01 4256047.07 4256054.14 4256061.21 4256068.27 4256075.34	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000130699 0.000129996	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.71765E-05 7.66476E-05	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000348148 0.000347007 0.000345297 0.000343041	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322
634763.7 634740.9 634718 634695.1 634672.3 634649.4	4256032.94 4256040.01 4256047.07 4256054.14 4256061.21 4256068.27 4256075.34 4256082.41	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000130699 0.000129996 0.000128886	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05 3.74649E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05 9.79257E-05	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.71765E-05 7.66476E-05 7.61469E-05	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000347007 0.000345297 0.000343041 0.000340423	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351
634763.7 634740.9 634718 634695.1 634672.3	4256032.94 4256040.01 4256047.07 4256054.14 4256061.21 4256068.27 4256075.34	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000130699 0.000129996	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.71765E-05 7.66476E-05	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000348148 0.000347007 0.000345297 0.000343041	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322
634763.7 634740.9 634718 634695.1 634672.3 634649.4	4256032.94 4256040.01 4256047.07 4256054.14 4256061.21 4256068.27 4256075.34 4256082.41	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000130699 0.000129996 0.000128886	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05 3.74649E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05 9.79257E-05	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.71765E-05 7.66476E-05 7.61469E-05	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000347007 0.000345297 0.000343041 0.000340423	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351
634763.7 634740.9 634718 634695.1 634672.3 634649.4 634626.5 634603.7	4256032.94 4256040.01 4256047.07 4256054.14 4256061.21 4256068.27 4256075.34 4256082.41 4256089.47 4256096.54	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000130699 0.000129996 0.000128886 0.000127438 0.000125685	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05 3.74649E-05 3.71166E-05 3.67489E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05 9.79257E-05 9.71408E-05 9.62937E-05	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.71765E-05 7.66476E-05 7.61469E-05 7.55834E-05 7.49848E-05	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000347007 0.000347007 0.000345297 0.000340423 0.000337279 0.000333712	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193 3.64056 3.59048	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512 1.08494 1.07419	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835 1.57562 1.56188	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351 1.22596 1.21625
634763.7 634740.9 634718 634695.1 634672.3 634649.4 634626.5 634603.7 634580.8	4256032.94 4256040.01 4256047.07 4256054.14 4256061.21 4256068.27 4256075.34 4256082.41 4256089.47 4256096.54 4256103.61	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000130699 0.000129996 0.000128886 0.000127438 0.000125685 0.000123649	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05 3.74649E-05 3.71166E-05 3.67489E-05 3.63643E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05 9.79257E-05 9.71408E-05 9.62937E-05 9.54682E-05	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.71765E-05 7.66476E-05 7.61469E-05 7.55834E-05 7.49848E-05 7.44034E-05	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000347007 0.000345297 0.000343041 0.000340423 0.000337279 0.000333712 0.000329885	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193 3.64056 3.59048 3.53233	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512 1.08494 1.07419 1.06295	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835 1.57562 1.56188 1.54849	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351 1.22596 1.21625 1.20682
634763.7 634740.9 634718 634695.1 634672.3 634649.4 634626.5 634603.7	4256032.94 4256040.01 4256047.07 4256054.14 4256061.21 4256068.27 4256075.34 4256082.41 4256089.47 4256096.54 4256103.61 4256110.67	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000129996 0.000128886 0.000127438 0.000125685 0.000123649 0.000121361	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05 3.74649E-05 3.71166E-05 3.67489E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05 9.79257E-05 9.71408E-05 9.62937E-05 9.54682E-05 9.46562E-05	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.71765E-05 7.66476E-05 7.61469E-05 7.55834E-05 7.49848E-05	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000347007 0.000347007 0.000345297 0.000340423 0.000337279 0.000333712	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193 3.64056 3.59048 3.53233 3.46696	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512 1.08494 1.07419	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835 1.57562 1.56188	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351 1.22596 1.21625 1.20682 1.19757
634763.7 634740.9 634718 634695.1 634672.3 634649.4 634626.5 634603.7 634580.8	4256032.94 4256040.01 4256047.07 4256054.14 4256061.21 4256068.27 4256075.34 4256082.41 4256089.47 4256096.54 4256103.61	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000130699 0.000129996 0.000128886 0.000127438 0.000125685 0.000123649	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05 3.74649E-05 3.71166E-05 3.67489E-05 3.63643E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05 9.79257E-05 9.71408E-05 9.62937E-05 9.54682E-05	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.71765E-05 7.66476E-05 7.61469E-05 7.55834E-05 7.49848E-05 7.44034E-05	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000347007 0.000345297 0.000343041 0.000340423 0.000337279 0.000333712 0.000329885	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193 3.64056 3.59048 3.53233	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512 1.08494 1.07419 1.06295	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835 1.57562 1.56188 1.54849	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351 1.22596 1.21625 1.20682
634763.7 634740.9 634718 634695.1 634672.3 634649.4 634626.5 634603.7 634580.8 634557.9 635185.1	4256032.94 4256040.01 4256047.07 4256054.14 4256061.21 4256068.27 4256075.34 4256082.41 4256089.47 4256096.54 4256103.61 4256110.67 4255583.05	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000130699 0.000129996 0.000128886 0.000127438 0.000125685 0.000123649 0.000121361 7.86624E-05	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05 3.74649E-05 3.71166E-05 3.67489E-05 3.63643E-05 3.59665E-05 5.06104E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05 9.79257E-05 9.71408E-05 9.62937E-05 9.54682E-05 9.46562E-05 0.00012698	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.71765E-05 7.66476E-05 7.61469E-05 7.55834E-05 7.49848E-05 7.44034E-05 7.38331E-05 0.000101894	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000347007 0.000345297 0.000343041 0.000340423 0.000337279 0.000333712 0.000329885 0.000325817 0.000358146	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193 3.64056 3.59048 3.53233 3.46696 2.24718	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512 1.08494 1.07419 1.06295 1.05132 1.47937	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835 1.57562 1.56188 1.54849 1.53532 2.05961	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351 1.22596 1.21625 1.20682 1.19757 1.65271
634763.7 634740.9 634718 634695.1 634672.3 634649.4 634626.5 634603.7 634580.8 634557.9 635185.1 635187.7	4256032.94 4256040.01 4256047.07 4256054.14 4256068.27 4256075.34 4256082.41 4256089.47 4256096.54 4256110.67 4255583.05 4255558.4	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000129996 0.000129996 0.000127438 0.000127438 0.000125685 0.000123649 0.000121361 7.86624E-05 7.83876E-05	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05 3.74649E-05 3.67489E-05 3.63643E-05 3.59665E-05 5.06104E-05 5.15293E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05 9.79257E-05 9.71408E-05 9.62937E-05 9.54682E-05 9.46562E-05 0.00012698 0.000129292	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.71765E-05 7.66476E-05 7.61469E-05 7.55834E-05 7.49848E-05 7.49848E-05 7.38331E-05 0.000101894 0.000103868	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000347007 0.000347007 0.000345297 0.000343041 0.000340423 0.000337279 0.000333712 0.000329885 0.000325817 0.000358146 0.000363077	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193 3.64056 3.59048 3.53233 3.46696 2.24718 2.23933	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512 1.08494 1.07419 1.06295 1.05132 1.47937 1.50623	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835 1.57562 1.56188 1.54849 1.53532 2.05961 2.09711	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351 1.22596 1.21625 1.20682 1.19757 1.65271 1.68473
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634763.7 634740.9 634718 634695.1 634672.3 634649.4 634626.5 634603.7 634580.8 634557.9 635185.1 635187.7	4256032.94 4256040.01 4256047.07 4256054.14 4256068.27 4256075.34 4256082.41 4256089.47 4256096.54 4256110.67 4255583.05 4255558.4	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000129996 0.000129996 0.000127438 0.000127438 0.000125685 0.000123649 0.000121361 7.86624E-05 7.83876E-05	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05 3.74649E-05 3.67489E-05 3.63643E-05 3.59665E-05 5.06104E-05 5.15293E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05 9.79257E-05 9.71408E-05 9.62937E-05 9.54682E-05 9.46562E-05 0.00012698 0.000129292	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.71765E-05 7.66476E-05 7.61469E-05 7.55834E-05 7.49848E-05 7.49848E-05 7.38331E-05 0.000101894 0.000103868	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000347007 0.000347007 0.000345297 0.000343041 0.000340423 0.000337279 0.000333712 0.000329885 0.000325817 0.000358146 0.000363077	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193 3.64056 3.59048 3.53233 3.46696 2.24718 2.23933	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512 1.08494 1.07419 1.06295 1.05132 1.47937 1.50623	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835 1.57562 1.56188 1.54849 1.53532 2.05961 2.09711	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351 1.22596 1.21625 1.20682 1.19757 1.65271 1.68473
634763.7 634740.9 634718 634695.1 634672.3 634649.4 634626.5 634603.7 634580.8 634557.9 635185.1 635187.7 635190.3 635192.9	4256032.94 4256040.01 4256047.07 4256054.14 4256061.21 4256068.27 4256075.34 4256082.41 4256089.47 4256103.61 4256110.67 4255583.05 4255558.4 4255558.4 4255509.1	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000130699 0.000129996 0.000127438 0.000127438 0.000125685 0.000123649 0.000123649 1.86624E-05 7.86624E-05 7.80974E-05 7.77943E-05	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05 3.74649E-05 3.67489E-05 3.63643E-05 3.59665E-05 5.06104E-05 5.15293E-05 5.24701E-05 5.34331E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05 9.79257E-05 9.71408E-05 9.62937E-05 9.54682E-05 9.46562E-05 0.00012698 0.000129292 0.000131602 0.0001339	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.71765E-05 7.66476E-05 7.61469E-05 7.49848E-05 7.49848E-05 7.44034E-05 7.38331E-05 0.000101894 0.000103868 0.000107942	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000347007 0.000345297 0.000343041 0.000340423 0.000337279 0.000333712 0.000329885 0.000325817 0.000358146 0.000368053 0.00037307	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193 3.64056 3.59048 3.53233 3.46696 2.24718 2.23933 2.23104 2.22238	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512 1.08494 1.07419 1.06295 1.05132 1.47937 1.50623 1.53373 1.56188	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835 1.57562 1.56188 1.54849 1.53532 2.05961 2.09711 2.13458 2.17185	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351 1.22596 1.21625 1.20682 1.19757 1.65271 1.68473 1.71743 1.75082
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634763.7 634740.9 634718 634695.1 634672.3 634649.4 634626.5 634603.7 634580.8 634557.9 635185.1 635187.7 635190.3 635192.9 635195.5 635198.1 635200.7 635203.3	4256032.94 4256040.01 4256047.07 4256054.14 4256061.21 4256068.27 4256075.34 4256089.47 4256089.47 4256103.61 4256110.67 4255583.05 4255558.4 42555533.75 4255509.1 4255484.45 4255435.15 4255410.5	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000129996 0.000129996 0.000127438 0.000127438 0.000125685 0.000123649 0.000123649 0.000121361 7.86624E-05 7.83876E-05 7.80974E-05 7.77943E-05 7.77943E-05 7.71502E-05 7.68093E-05 7.64547E-05	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05 3.74649E-05 3.67489E-05 3.63643E-05 5.06104E-05 5.15293E-05 5.24701E-05 5.34331E-05 5.44184E-05 5.54256E-05 5.6455E-05 5.75059E-05	0.000102225 0.0001019 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05 9.79257E-05 9.71408E-05 9.62937E-05 9.54682E-05 9.46562E-05 0.00012698 0.000129292 0.000131602 0.0001339 0.000138412 0.000140597 0.000142714	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.76772E-05 7.66476E-05 7.61469E-05 7.49848E-05 7.49848E-05 7.38331E-05 0.000101894 0.000103868 0.000105884 0.000107942 0.00011004 0.000112178 0.000114354 0.000116565	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000347007 0.000345297 0.000343041 0.000340423 0.000337279 0.000333712 0.000325817 0.000325817 0.000363077 0.000368053 0.000378112 0.000388215 0.000393239	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193 3.64056 3.59048 3.53233 3.46696 2.24718 2.23933 2.23104 2.22238 2.21336 2.20398 2.19424 2.18411	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512 1.08494 1.07419 1.06295 1.05132 1.47937 1.50623 1.53373 1.56188 1.59068 1.62012 1.65021 1.68093	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835 1.57562 1.56188 1.54849 1.53532 2.05961 2.09711 2.13458 2.17185 2.20874 2.24503 2.28048 2.31481	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351 1.22596 1.21625 1.20682 1.19757 1.65271 1.68473 1.71743 1.75082 1.78485 1.81952 1.85481 1.89068
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634763.7 634740.9 634718 634695.1 634672.3 634649.4 634626.5 634603.7 634580.8 634557.9 635185.1 635187.7 635190.3 635192.9 635195.5 635198.1 635200.7 635203.3 635205.9 635208.5 635211.1 635213.7 635216.3	4256032.94 4256040.01 4256047.07 4256054.14 4256061.21 4256068.27 4256075.34 4256089.47 4256096.54 4256103.61 4256110.67 4255583.05 4255558.4 4255533.75 4255599.1 4255484.45 4255489.8 4255435.15 4255410.5 4255385.85 4255361.2 4255311.9 4255287.26	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000130699 0.000129996 0.000128886 0.000127438 0.000125685 0.000123649 0.000123649 0.000121361 7.86624E-05 7.83876E-05 7.89974E-05 7.77943E-05 7.77943E-05 7.74785E-05 7.74785E-05 7.68093E-05 7.68093E-05 7.68093E-05 7.6922E-05 7.56922E-05 7.48388E-05 7.48388E-05 7.43719E-05	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05 3.74649E-05 3.67489E-05 3.67489E-05 5.06104E-05 5.15293E-05 5.24701E-05 5.34331E-05 5.34331E-05 5.44184E-05 5.54256E-05 5.6455E-05 5.75059E-05 5.96677E-05 6.07758E-05 6.18993E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05 9.79257E-05 9.71408E-05 9.62937E-05 9.54682E-05 9.46562E-05 0.00012698 0.000129292 0.000131602 0.0001339 0.000136174 0.000138412 0.000140597 0.000142714 0.000144743 0.000146663 0.000150077 0.000151516	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.71765E-05 7.66476E-05 7.61469E-05 7.55834E-05 7.49848E-05 7.49848E-05 7.38331E-05 0.000101894 0.000103868 0.000105884 0.000107942 0.00011004 0.000112178 0.000112178 0.000114354 0.000114354 0.000121082 0.000123379 0.000125697 0.000128026	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000348148 0.000347007 0.000345297 0.000343041 0.000340423 0.000337279 0.000325817 0.000325817 0.000363077 0.000368053 0.000378112 0.000378112 0.000388215 0.000388215 0.000393239 0.000398212 0.000403104 0.000407883 0.000412513 0.000416949	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193 3.64056 3.59048 3.53233 3.46696 2.24718 2.23933 2.23104 2.22238 2.21336 2.20398 2.19424 2.18411 2.1735 2.16233 2.1505 2.13795 2.12461	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512 1.08494 1.07419 1.06295 1.05132 1.47937 1.50623 1.53373 1.56188 1.59068 1.62012 1.65021 1.68093 1.71224 1.74412 1.77651 1.80935 1.84254	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835 1.57562 1.56188 1.54849 1.53532 2.05961 2.09711 2.13458 2.17185 2.20874 2.24503 2.28048 2.31481 2.34773 2.37886 2.40785 2.43425 2.45759	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351 1.22596 1.21625 1.20682 1.19757 1.65271 1.68473 1.71743 1.75082 1.78485 1.81952 1.85481 1.89068 1.92706 1.96394 2.0012 2.0388 2.07657
634763.7 634740.9 634718 634695.1 634672.3 634649.4 634626.5 634603.7 634580.8 634557.9 635185.1 635187.7 635190.3 635192.9 635195.5 635198.1 635200.7 635203.3 635205.9 635208.5 635211.1 635213.7	4256032.94 4256040.01 4256047.07 4256054.14 4256068.27 4256068.27 4256075.34 4256082.41 4256089.47 4256096.54 4256103.61 4256110.67 4255583.05 4255558.4 42555533.75 4255509.1 4255484.45 425549.8 425549.8 4255410.5 4255385.85 4255361.2 4255336.55 4255311.9	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000129996 0.000129996 0.000127438 0.000125685 0.000123649 0.000123649 0.00012361 7.86624E-05 7.83876E-05 7.80974E-05 7.77943E-05 7.77943E-05 7.74785E-05 7.74785E-05 7.60832E-05 7.60832E-05 7.56922E-05 7.52781E-05 7.48388E-05	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05 3.74649E-05 3.67489E-05 3.63643E-05 5.06104E-05 5.15293E-05 5.24701E-05 5.34331E-05 5.44184E-05 5.54256E-05 5.6455E-05 5.75059E-05 5.85771E-05 5.96677E-05 6.07758E-05 6.18993E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05 9.79257E-05 9.71408E-05 9.62937E-05 9.54682E-05 0.00012698 0.00012698 0.0001339 0.0001339 0.000136174 0.000138412 0.000140597 0.000142714 0.000144743 0.000146663 0.00014845 0.000150077	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.71765E-05 7.66476E-05 7.61469E-05 7.55834E-05 7.49848E-05 7.49848E-05 7.38331E-05 0.000101894 0.000103868 0.000105884 0.000105884 0.000107942 0.00011004 0.000112178 0.000112178 0.00011894 0.000112178 0.000118808 0.000123379 0.000125697	0.000345698 0.000347081 0.000348075 0.000348631 0.000348669 0.000347007 0.000345297 0.000343041 0.000340423 0.000337279 0.000329885 0.000325817 0.000358146 0.000363077 0.000368053 0.00037307 0.000378112 0.000388215 0.000398212 0.000398212 0.000403104 0.000407883 0.000412513	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193 3.64056 3.59048 3.53233 3.46696 2.24718 2.23933 2.23104 2.22238 2.21336 2.20398 2.19424 2.18411 2.1735 2.16233 2.1505 2.13795	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512 1.08494 1.07419 1.06295 1.05132 1.47937 1.50623 1.53373 1.56188 1.59068 1.62012 1.65021 1.68093 1.71224 1.77451 1.80935	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835 1.57562 1.56188 1.54849 1.53532 2.05961 2.09711 2.13458 2.17185 2.20874 2.24503 2.28048 2.31481 2.34773 2.37886 2.40785 2.43425	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351 1.22596 1.21625 1.20682 1.19757 1.65271 1.68473 1.71743 1.75082 1.78485 1.81952 1.85481 1.89068 1.92706 1.96394 2.0012 2.0388
634763.7 634740.9 634718 634695.1 634672.3 634649.4 634626.5 634603.7 634580.8 634557.9 635185.1 635187.7 635190.3 635192.9 635195.5 635198.1 635200.7 635203.3 635205.9 635205.9 635211.1 635213.7 635216.3 635218.9	4256032.94 4256040.01 4256047.07 4256054.14 4256068.27 4256075.34 4256082.41 4256089.47 4256096.54 4256110.67 4255583.05 4255583.05 4255558.4 4255533.75 4255509.1 4255484.45 4255459.8 4255459.8 4255459.8 4255459.8 4255385.85 4255385.85 4255385.85 4255385.85 4255336.55 4255287.26 4255262.61	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000130699 0.000129996 0.000128886 0.000127438 0.000125685 0.000123649 0.000123649 0.00012361 7.86624E-05 7.83876E-05 7.80974E-05 7.77943E-05 7.77943E-05 7.71502E-05 7.68093E-05 7.64547E-05 7.60832E-05 7.56922E-05 7.52781E-05 7.43719E-05 7.38758E-05	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05 3.74649E-05 3.67489E-05 3.63643E-05 5.06104E-05 5.15293E-05 5.24701E-05 5.34331E-05 5.44184E-05 5.54256E-05 5.6455E-05 5.75059E-05 5.96677E-05 6.07758E-05 6.18993E-05 6.30347E-05 6.41794E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05 9.79257E-05 9.71408E-05 9.62937E-05 9.46562E-05 0.00012698 0.00012698 0.000131602 0.0001339 0.000136174 0.000138412 0.000140597 0.000142714 0.000144743 0.000146663 0.00014845 0.000150077 0.000151516 0.000152738	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.76772E-05 7.66476E-05 7.66476E-05 7.61469E-05 7.49848E-05 7.49848E-05 7.49848E-05 7.38331E-05 0.000101894 0.000103868 0.000105884 0.000107942 0.00011004 0.000112178 0.000112178 0.00011894 0.0001123379 0.000123379 0.000128026 0.000130363	0.000345698 0.000347081 0.000348075 0.000348669 0.000348148 0.000347007 0.000345297 0.000343041 0.000340423 0.000337279 0.000329885 0.000325817 0.000358146 0.000363077 0.000368053 0.00037307 0.000378112 0.000383165 0.000388215 0.000398212 0.000403104 0.000407883 0.000412513 0.000416949 0.000421157	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193 3.64056 3.59048 3.53233 3.46696 2.24718 2.23933 2.23104 2.22238 2.21336 2.20398 2.19424 2.18411 2.1735 2.16233 2.1505 2.13795 2.12461 2.11044	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512 1.08494 1.07419 1.06295 1.05132 1.47937 1.50623 1.53373 1.56188 1.59068 1.62012 1.68093 1.71224 1.74412 1.77651 1.80935 1.84254 1.876	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835 1.57562 1.56188 1.54849 1.53532 2.05961 2.09711 2.13458 2.17185 2.20874 2.24503 2.28048 2.31481 2.34773 2.37886 2.40785 2.43425 2.45759 2.4774	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351 1.22596 1.21625 1.20682 1.19757 1.65271 1.68473 1.71743 1.75082 1.78485 1.81952 1.85481 1.89068 1.92706 1.96394 2.0012 2.0388 2.07657 2.11449
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634763.7 634740.9 634718 634695.1 634672.3 634649.4 634626.5 634603.7 634580.8 634557.9 635185.1 635187.7 635190.3 635192.9 635195.5 635198.1 635200.7 635203.3 635205.9 635205.9 635211.1 635213.7 635213.7 635218.9 635221.5 635224.1 635226.7 635229.3 635273.1	4256032.94 4256040.01 4256047.07 4256054.14 4256068.27 4256075.34 4256082.41 4256089.47 4256096.54 4256110.67 4255583.05 4255583.75 4255599.1 4255484.45 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 425540.5 4255385.85 4255361.2 4255361.2 4255336.55 4255311.9 4255287.26 4255237.96 4255213.31 4255188.66 4255164.01 4255614.77	0.00012573 0.000127565 0.000130114 0.00013076 0.000130959 0.000130959 0.000129996 0.000128886 0.000127438 0.000125685 0.000123649 0.000123649 0.00012361 7.86624E-05 7.83876E-05 7.80974E-05 7.77943E-05 7.77943E-05 7.74785E-05 7.64547E-05 7.68093E-05 7.64547E-05 7.6922E-05 7.52781E-05 7.43719E-05 7.43719E-05 7.38758E-05 7.33487E-05 7.27889E-05 7.27889E-05 7.15708E-05 6.33372E-05	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.7916E-05 3.74649E-05 3.74649E-05 3.67489E-05 3.63643E-05 5.06104E-05 5.15293E-05 5.24701E-05 5.34331E-05 5.44184E-05 5.54256E-05 5.6455E-05 5.75059E-05 5.75059E-05 5.96677E-05 6.07758E-05 6.18993E-05 6.30347E-05 6.41794E-05 6.53282E-05 6.64767E-05 6.64767E-05 6.64767E-05 6.64767E-05 6.76183E-05 6.87469E-05 4.62092E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.99227E-05 9.86051E-05 9.79257E-05 9.71408E-05 9.62937E-05 9.46562E-05 0.00012698 0.000129292 0.000131602 0.000138412 0.000138412 0.000140597 0.000142714 0.000144743 0.000144743 0.000144743 0.000146663 0.00015077 0.000151516 0.000152738 0.000153709 0.000154758 0.000154766 0.000110812	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.76772E-05 7.66476E-05 7.61469E-05 7.49848E-05 7.49848E-05 7.49848E-05 7.38331E-05 0.000101894 0.000103868 0.000105884 0.000107942 0.00011004 0.000112178 0.000112178 0.000112178 0.00011898 0.000123379 0.000123379 0.000125697 0.000128026 0.00013963 0.000135018 0.000135018 0.000137312 0.000139566 9.24312E-05	0.000345698 0.000347081 0.000348631 0.000348669 0.000348148 0.000347007 0.000345297 0.000343041 0.000340423 0.000337279 0.000325817 0.000325817 0.000358146 0.000368053 0.00037307 0.000378112 0.000383165 0.00037307 0.0003825817 0.000383165 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.000378112 0.00043105 0.000425082 0.000425082 0.000425082 0.000431885 0.000431885 0.000434649 0.000431279	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193 3.64056 3.59048 3.53233 3.46696 2.24718 2.23933 2.23104 2.22238 2.21336 2.20398 2.19424 2.18411 2.1735 2.16233 2.1505 2.13795 2.12461 2.11044 2.09538 2.07939 2.06247 2.04459 1.80938	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512 1.08494 1.07419 1.06295 1.05132 1.47937 1.50623 1.53373 1.56188 1.59068 1.62012 1.68093 1.71224 1.74412 1.77651 1.80935 1.84254 1.876 1.90958 1.94315 1.97652 2.00951 1.35072	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835 1.57562 1.56188 1.54849 1.53532 2.05961 2.09711 2.13458 2.17185 2.20874 2.24503 2.28048 2.31481 2.34773 2.37886 2.40785 2.40785 2.43425 2.45759 2.4774 2.49315 2.50427 2.51017 2.51029 1.79737	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351 1.22596 1.21625 1.20682 1.19757 1.65271 1.68473 1.71743 1.75082 1.78485 1.81952 1.85481 1.89068 1.92706 1.96394 2.0012 2.0388 2.07657 2.11449 2.15233 2.18999 2.2272 2.26375 1.49923
634763.7 634740.9 634718 634695.1 634672.3 634649.4 634626.5 634580.8 634557.9 635185.1 635187.7 635190.3 635192.9 635195.5 635198.1 635200.7 635203.3 635205.9 635208.5 635211.1 635213.7 635216.3 635218.9 635221.5 635224.1 635226.7 635229.3	4256032.94 4256040.01 4256047.07 4256054.14 4256068.27 4256075.34 4256082.41 4256089.47 4256096.54 4256110.67 4255583.05 4255558.4 4255533.75 4255599.1 4255484.45 4255435.15 4255435.15 4255410.5 4255361.2 4255361.2 4255361.2 4255287.26 4255287.26 4255213.31 4255188.66 4255164.01	0.00012573 0.000127565 0.000129035 0.000130114 0.00013076 0.000130959 0.000129996 0.000129996 0.000127438 0.000125685 0.000123649 0.000123649 0.000121361 7.86624E-05 7.83876E-05 7.80974E-05 7.77943E-05 7.77943E-05 7.74785E-05 7.74785E-05 7.68093E-05 7.64547E-05 7.68093E-05 7.64547E-05 7.6832E-05 7.56922E-05 7.56922E-05 7.48388E-05 7.43719E-05 7.38758E-05 7.33487E-05 7.27889E-05 7.27889E-05 7.21966E-05 7.15708E-05	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.80985E-05 3.77916E-05 3.74649E-05 3.67489E-05 3.63643E-05 5.06104E-05 5.15293E-05 5.24701E-05 5.34331E-05 5.44184E-05 5.54256E-05 5.6455E-05 5.75059E-05 5.85771E-05 5.96677E-05 6.07758E-05 6.18993E-05 6.30347E-05 6.41794E-05 6.53282E-05 6.64767E-05 6.676183E-05 6.87469E-05	0.000102225 0.0001019 0.00010199 0.000101099 0.000100592 9.99867E-05 9.93227E-05 9.86051E-05 9.79257E-05 9.71408E-05 9.62937E-05 9.46562E-05 0.00012698 0.000129292 0.000131602 0.0001339 0.000136174 0.000138412 0.000140597 0.000142714 0.000144743 0.000146663 0.00014845 0.000150077 0.000151516 0.000152738 0.000153709 0.000154758 0.000154758	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.76772E-05 7.66476E-05 7.66476E-05 7.61469E-05 7.49848E-05 7.49848E-05 7.49848E-05 7.38331E-05 0.000101894 0.000103868 0.000105884 0.000107942 0.00011004 0.000112178 0.000112178 0.000114354 0.000114354 0.0001121082 0.000123379 0.000123379 0.000125697 0.00013808 0.00013808 0.000135018 0.000137312 0.000139566	0.000345698 0.000347081 0.000348075 0.000348669 0.000348148 0.000347007 0.000345297 0.000343041 0.000340423 0.000337279 0.000325817 0.000325817 0.000358146 0.000363077 0.000368053 0.000378112 0.000378112 0.000388215 0.000388215 0.000398212 0.000398212 0.000403104 0.000407883 0.000412513 0.000416949 0.000425082 0.0004231885 0.000431885 0.000431885 0.000434649	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193 3.64056 3.59048 3.53233 3.46696 2.24718 2.23933 2.23104 2.22238 2.21336 2.20398 2.19424 2.18411 2.1735 2.16233 2.1505 2.13795 2.12461 2.11044 2.09538 2.07939 2.06247 2.04459	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512 1.08494 1.07419 1.06295 1.05132 1.47937 1.50623 1.53373 1.56188 1.59068 1.62012 1.65021 1.68093 1.71224 1.74412 1.77651 1.80935 1.84254 1.876 1.90958 1.9958 1.99552 2.00951	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835 1.57562 1.56188 1.54849 1.53532 2.05961 2.09711 2.13458 2.17185 2.20874 2.24503 2.28048 2.31481 2.34773 2.37886 2.40785 2.43425 2.45759 2.4774 2.49315 2.50427 2.51029	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351 1.22596 1.21625 1.20682 1.19757 1.65271 1.68473 1.71743 1.75082 1.78485 1.81952 1.85481 1.89068 1.92706 1.96394 2.0012 2.0388 2.07657 2.11449 2.15233 2.18999 2.2272 2.26375
634763.7 634740.9 634718 634695.1 634672.3 634649.4 634626.5 634603.7 634580.8 634557.9 635185.1 635187.7 635190.3 635192.9 635195.5 635198.1 635200.7 635203.3 635205.9 635205.9 635211.1 635213.7 635213.7 635218.9 635221.5 635224.1 635226.7 635229.3 635273.1	4256032.94 4256040.01 4256047.07 4256054.14 4256068.27 4256075.34 4256082.41 4256089.47 4256096.54 4256110.67 4255583.05 4255583.75 4255599.1 4255484.45 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 4255459.8 425540.5 4255385.85 4255361.2 4255361.2 4255336.55 4255311.9 4255287.26 4255237.96 4255213.31 4255188.66 4255164.01 4255614.77	0.00012573 0.000127565 0.000130114 0.00013076 0.000130959 0.000130959 0.000129996 0.000128886 0.000127438 0.000125685 0.000123649 0.000123649 0.00012361 7.86624E-05 7.83876E-05 7.80974E-05 7.77943E-05 7.77943E-05 7.74785E-05 7.64547E-05 7.68093E-05 7.64547E-05 7.6922E-05 7.52781E-05 7.43719E-05 7.43719E-05 7.38758E-05 7.33487E-05 7.27889E-05 7.27889E-05 7.15708E-05 6.33372E-05	3.95449E-05 3.93444E-05 3.91293E-05 3.88983E-05 3.86507E-05 3.83845E-05 3.7916E-05 3.74649E-05 3.74649E-05 3.67489E-05 3.63643E-05 5.06104E-05 5.15293E-05 5.24701E-05 5.34331E-05 5.44184E-05 5.54256E-05 5.6455E-05 5.75059E-05 5.75059E-05 5.96677E-05 6.07758E-05 6.18993E-05 6.30347E-05 6.41794E-05 6.53282E-05 6.64767E-05 6.64767E-05 6.64767E-05 6.64767E-05 6.76183E-05 6.87469E-05 4.62092E-05	0.000102225 0.0001019 0.000101535 0.000101099 0.000100592 9.99867E-05 9.99227E-05 9.86051E-05 9.79257E-05 9.71408E-05 9.62937E-05 9.46562E-05 0.00012698 0.000129292 0.000131602 0.000138412 0.000138412 0.000140597 0.000142714 0.000144743 0.000144743 0.000144743 0.000146663 0.00015077 0.000151516 0.000152738 0.000153709 0.000154758 0.000154766 0.000110812	7.9581E-05 7.92653E-05 7.89312E-05 7.85575E-05 7.81457E-05 7.76772E-05 7.76772E-05 7.66476E-05 7.61469E-05 7.49848E-05 7.49848E-05 7.49848E-05 7.38331E-05 0.000101894 0.000103868 0.000105884 0.000107942 0.00011004 0.000112178 0.000112178 0.000112178 0.00011898 0.000123379 0.000123379 0.000125697 0.000128026 0.00013963 0.000135018 0.000135018 0.000137312 0.000139566 9.24312E-05	0.000345698 0.000347081 0.000348631 0.000348669 0.000348148 0.000347007 0.000345297 0.000343041 0.000340423 0.000337279 0.000325817 0.000325817 0.000358146 0.000368053 0.00037307 0.000378112 0.000383165 0.00037307 0.0003825817 0.000383165 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.00037307 0.000378112 0.00043105 0.000425082 0.000425082 0.000425082 0.000431885 0.000431885 0.000434649 0.000431279	3.45851 3.52937 3.59178 3.64419 3.68619 3.71701 3.73548 3.74115 3.73374 3.71366 3.68193 3.64056 3.59048 3.53233 3.46696 2.24718 2.23933 2.23104 2.22238 2.21336 2.20398 2.19424 2.18411 2.1735 2.16233 2.1505 2.13795 2.12461 2.11044 2.09538 2.07939 2.06247 2.04459 1.80938	1.16134 1.15592 1.15006 1.14377 1.13702 1.12978 1.122 1.11364 1.10467 1.09512 1.08494 1.07419 1.06295 1.05132 1.47937 1.50623 1.53373 1.56188 1.59068 1.62012 1.68093 1.71224 1.74412 1.77651 1.80935 1.84254 1.876 1.90958 1.94315 1.97652 2.00951 1.35072	1.66305 1.65809 1.65282 1.6469 1.63982 1.63159 1.62178 1.61101 1.59937 1.58835 1.57562 1.56188 1.54849 1.53532 2.05961 2.09711 2.13458 2.17185 2.20874 2.24503 2.28048 2.31481 2.34773 2.37886 2.40785 2.40785 2.43425 2.45759 2.4774 2.49315 2.50427 2.51017 2.51029 1.79737	1.29583 1.2908 1.28568 1.28026 1.2742 1.26752 1.25992 1.2518 1.24322 1.2351 1.22596 1.21625 1.20682 1.19757 1.65271 1.68473 1.71743 1.75082 1.78485 1.81952 1.85481 1.89068 1.92706 1.96394 2.0012 2.0388 2.07657 2.11449 2.15233 2.18999 2.2272 2.26375 1.49923

635238.8	4255678.48	6.83678E-05	4.5239E-05	0.000110233	9.0446E-05	0.000314285	1.95309	1.32236	1.78797	1.46703
635227.4	4255699.71	7.00648E-05	4.48931E-05	0.000109797	8.97012E-05	0.000314456	2.00157	1.31225	1.7809	1.45495
635215.9	4255720.95	7.17661E-05	4.45363E-05	0.000109255	8.89219E-05	0.000314479	2.05017	1.30182	1.77211	1.44231
635204.5	4255742.18	7.34642E-05	4.41695E-05	0.000108619	8.81112E-05	0.000314364	2.09868	1.2911	1.76179	1.42916
635193.1	4255763.42	7.51553E-05	4.37922E-05	0.000107896	8.72746E-05	0.000314118	2.14699	1.28007	1.75007	1.41559
635181.7	4255784.65	7.68303E-05	4.34056E-05	0.000107098	8.64152E-05	0.000313749	2.19484	1.26877	1.73712	1.40165
635170.2	4255805.89	7.84793E-05	4.30084E-05	0.00010623	8.55348E-05	0.000313253	2.24195	1.25716	1.72305	1.38737
635158.8	4255827.12	8.0092E-05	4.2602E-05	0.000105303	8.46377E-05	0.000312635	2.28802	1.24528	1.70801	1.37282
635147.4	4255848.35	8.16539E-05	4.21856E-05	0.000104322	8.37265E-05	0.000311888	2.33264	1.23311	1.6921	1.35804
635135.9	4255869.59	8.315E-05	4.17594E-05	0.000103294	8.28017E-05	0.000311005	2.37538	1.22065	1.67542	1.34304
635124.5	4255890.82	8.45625E-05	4.13242E-05	0.000102225	8.18683E-05	0.00030998	2.41573	1.20793	1.65809	1.3279
635113.1	4255912.06	8.58706E-05	4.08795E-05	0.000101121	8.09256E-05	0.000308797	2.4531	1.19493	1.64018	1.31261
635101.7	4255933.29	8.70587E-05	4.04272E-05	9.99879E-05	7.99774E-05	0.000307451	2.48704	1.18171	1.6218	1.29723
635090.2	4255954.53	8.81043E-05	3.99667E-05	9.88295E-05	7.90249E-05	0.000305925	2.51691	1.16825	1.60301	1.28178
635078.8	4255975.76	8.89864E-05	3.94998E-05	9.76507E-05	7.80699E-05	0.000304207	2.54211	1.1546	1.58389	1.26629
						0.000302279				
635067.4	4255997	8.96851E-05	3.90266E-05	9.64546E-05	7.7113E-05		2.56207	1.14077	1.56449	1.25077
635055.9	4256018.23	9.01871E-05	3.85487E-05	9.52456E-05	7.61568E-05	0.000300138	2.57641	1.1268	1.54488	1.23526
635044.5	4256039.47	9.04829E-05	3.80663E-05	9.40261E-05	7.52006E-05	0.000297776	2.58486	1.1127	1.5251	1.21975
635010	4256067.82	9.33309E-05	3.75716E-05	9.31661E-05	7.43498E-05	0.000298418	2.66622	1.09824	1.51115	1.20595
634987	4256074.94	9.59608E-05	3.7532E-05	9.34552E-05	7.44059E-05	0.000301354	2.74135	1.09708	1.51584	1.20686
634964	4256082.06	9.84399E-05	3.74652E-05	9.36686E-05	7.4417E-05	0.000303991	2.81217	1.09513	1.5193	1.20704
634940.9	4256089.18	0.000100748	3.73742E-05	9.38054E-05	7.43831E-05	0.000306311	2.87812	1.09247	1.52152	1.20649
634917.9	4256096.3	0.000102873	3.72624E-05	9.38677E-05	7.43054E-05	0.000308309	2.93882	1.0892	1.52253	1.20523
634894.8	4256103.42	0.000104809	3.71324E-05	9.3856E-05	7.41858E-05	0.000309983	2.99412	1.0854	1.52234	1.20329
634871.8	4256110.54	0.000106539	3.69863E-05	9.37728E-05	7.40236E-05	0.000311321	3.04353	1.08113	1.52099	1.20066
634848.8	4256117.66	0.00010806	3.68262E-05	9.35884E-05	7.38023E-05	0.000312277	3.087	1.07645	1.518	1.19707
634825.7	4256124.78	0.000109347	3.66524E-05	9.32506E-05	7.3486E-05	0.000312736	3.12376	1.07137	1.51252	1.19194
634802.7	4256131.9	0.000110372	3.64653E-05	9.28375E-05	7.31266E-05	0.000312802	3.15305	1.0659	1.50582	1.18611
634779.6	4256139.02	0.000111109	3.62658E-05	9.24084E-05	7.27616E-05	0.000312545	3.17409	1.06007	1.49886	1.18019
										1.17439
634756.6	4256146.14	0.000111537	3.60541E-05	9.19811E-05	7.2404E-05	0.000311976	3.18632	1.05388	1.49193	1.17439
634733.6	4256153.26	0.000111644	3.58269E-05	9.14811E-05	7.20039E-05	0.000310956	3.18939	1.04724	1.48382	1.1679
634710.5	4256160.38	0.000111429	3.55823E-05	9.0885E-05	7.15452E-05	0.000309442	3.18324	1.04009	1.47415	1.16046
634687.5	4256167.5	0.000110914	3.53233E-05	9.03695E-05	7.11445E-05	0.000307751	3.16852	1.03252	1.46579	1.15396
634664.4	4256174.62	0.000110121	3.50462E-05	8.98104E-05	7.07191E-05	0.000305697	3.14588	1.02442	1.45672	1.14706
634641.4	4256181.74	0.000109087	3.47489E-05	8.9147E-05	7.02289E-05	0.000303212	3.11634	1.01573	1.44596	1.13911
634618.4	4256188.86	0.00010784	3.44325E-05	8.84041E-05	6.96913E-05	0.000300368	3.0807	1.00648	1.43391	1.13039
634595.3	4256195.98	0.000106394	3.40992E-05	8.76297E-05	6.91364E-05	0.00029726	3.03941	0.99674	1.42135	1.12139
634572.3	4256203.1	0.000104768	3.37541E-05	8.69318E-05	6.86334E-05	0.000294087	2.99294	0.98665	1.41003	1.11323
634549.2	4256210.22	0.000102966	3.33986E-05	8.63177E-05	6.81882E-05	0.00029087	2.94146	0.97626	1.40007	1.10601
635284.5	4255593.54	6.16861E-05	4.65068E-05	0.000110726	9.29922E-05	0.000311911	1.76221	1.35942	1.79597	1.50833
635287.1	4255568.89	6.13196E-05	4.72502E-05	0.000112145	9.4512E-05	0.000315226	1.75174	1.38115	1.81898	1.53298
635289.7	4255544.24	6.09401E-05	4.80063E-05	0.000113514	9.60453E-05	0.000318506	1.7409	1.40325	1.84119	1.55785
635292.3	4255519.59	6.05484E-05	4.8774E-05	0.00011482	9.75903E-05	0.000321732	1.72971	1.42569	1.86237	1.58291
635294.9	4255494.94	6.01455E-05	4.95523E-05	0.000116053	9.91451E-05	0.000324896	1.7182	1.44844	1.88237	1.60813
635297.5	4255470.29	5.9731E-05	5.03401E-05	0.000117199	0.000100705	0.000327976	1.70636	1.47147	1.90097	1.63343
635300.1	4255445.64	5.93054E-05	5.11359E-05	0.000118246	0.000102266	0.000330954	1.6942	1.49473	1.91795	1.65875
635302.7	4255420.99	5.88685E-05	5.19374E-05	0.000119178	0.000103825	0.000333809	1.68172	1.51816	1.93307	1.68403
635305.3	4255396.34	5.84194E-05	5.27431E-05	0.00011998	0.000105375	0.000336518	1.66889	1.54171	1.94607	1.70918
635307.9	4255371.69	5.79566E-05	5.35498E-05	0.000120636	0.000106912	0.000339055	1.65567	1.56529	1.95671	1.73411
635310.5	4255347.04	5.74781E-05	5.43544E-05	0.000121128	0.000108429	0.000341389	1.642	1.58881	1.96469	1.75871
635313.1	4255322.39	5.69825E-05	5.51536E-05	0.000121438	0.000109918	0.000343492	1.62784	1.61217	1.96972	1.78287
635315.7	4255297.75	5.64689E-05	5.59432E-05	0.000121549	0.000111372	0.000345333	1.61317	1.63525	1.97152	1.80645
635318.3	4255273.1	5.59365E-05	5.67201E-05	0.000121445	0.000112781	0.000346883	1.59796	1.65796	1.96984	1.82931
						0.000348109				
635320.9	4255248.45	5.53848E-05	5.74796E-05	0.000121108	0.000114137		1.5822	1.68016	1.96437	1.85129
635323.5	4255223.8	5.48139E-05	5.82168E-05	0.000120523	0.000115426	0.00034898	1.56589	1.70171	1.95487	1.87221
635326.1	4255199.15	5.42241E-05	5.89274E-05	0.000119675	0.00011664	0.000349466	1.54904	1.72248	1.94112	1.8919
635328.7	4255174.5	5.3616E-05	5.96061E-05	0.000118551	0.000117764	0.000349537	1.53167	1.74232	1.92289	1.91013
634649.6	4255078.84	0.00195955	0.000110643	0.000384695	0.000233569	0.002688457	55.97922	3.23417	6.23973	3.78848
634652.4	4255054.94	0.001945474	0.000115231	0.000402974	0.000243034	0.002706713	55.57712	3.36828	6.53622	3.942
634655.3	4255031.03	0.001934416	0.000120177	0.00042303	0.000253469	0.002731091	55.26121	3.51284	6.86153	4.11125
634658.1	4255007.12	0.001923621	0.000125508	0.000444098	0.000264933	0.00275816	54.95284	3.66866	7.20325	4.2972
634660.9	4254983.21	0.001912449	0.00013127	0.000466081	0.000276869	0.002786669	54.63368	3.83709	7.55982	4.4908
634663.8	4254959.31	0.001901428	0.000137514	0.00048881	0.000289575	0.002817326	54.31883	4.0196	7.92848	4.69689
634666.6	4254935.4	0.001890213	0.000144307	0.000512065	0.000303088	0.002849675	53.99847	4.21818	8.30568	4.91608
634669.4	4254911.49	0.001878807	0.000151723	0.000535507	0.000317424	0.002883461	53.67262	4.43495	8.6859	5.1486
634672.2	4254887.58	0.001867199	0.00015985	0.000558702	0.000332593	0.002918345	53.34101	4.67249	9.06213	5.39465
634675.1	4254863.68	0.001854962	0.00016879	0.000581101	0.000349509	0.002954362	52.99142	4.93383	9.42543	5.66902
634677.9	4254839.77	0.001842889	0.00017868	0.000602045	0.000366548	0.002990161	52.64652	5.22291	9.76514	5.94539
634680.7	4254815.86	0.001830664	0.000189674	0.000620781	0.000383666	0.003024785	52.2973	5.54428	10.06904	6.22305
634683.6	4254791.96	0.001818342	0.000201964	0.00063649	0.000402325	0.00305912	51.94529	5.90351	10.32384	6.52569
634686.4	4254768.05	0.001806505	0.000215805	0.000648399	0.000423153	0.003093862	51.60715	6.30809	10.517	6.86353
634689.2	4254744.14	0.001807633	0.000231793	0.000671055	0.000450214	0.003160695	51.63936	6.77543	10.88449	7.30245
634663.8	4255080.52	0.001524164	0.000110938	0.000384719	0.00023374	0.002253561	43.5414	3.24277	6.24012	3.79125
634666.6	4255056.62	0.001516742	0.000115537	0.000403381	0.000243402	0.002279063	43.32937	3.37721	6.54283	3.94797
						0.002307459				
634669.4	4255032.71	0.001509703	0.000120487	0.000423409	0.000253859		43.12828	3.52191	6.86767	4.11759
634672.3	4255008.8	0.001502488	0.000125822	0.000444438	0.000265011	0.002337759	42.92217	3.67784	7.20877	4.29846
634675.1	4254984.89	0.001495303	0.000131587	0.000466464	0.000277344	0.002370698	42.7169	3.84637	7.56602	4.49851
634677.9	4254960.99	0.001487665	0.000137834	0.000489256	0.000290123	0.002404878	42.4987	4.02895	7.93571	4.70579
634680.8	4254937.08	0.001479643	0.000144622	0.000512315	0.000303258	0.002439838	42.26954	4.22738	8.30973	4.91883
634683.6	4254913.17	0.001471659	0.000152032	0.000535819	0.000317584	0.002477094	42.04145	4.44398	8.69096	5.1512
634686.4	4254889.26	0.001463382	0.000160147	0.000559201	0.000333386	0.002516116	41.80502	4.6812	9.07021	5.4075
634689.3	4254865.36	0.001454842	0.00016907	0.000581995	0.000349538	0.002555445	41.56104	4.942	9.43994	5.66949
634692.1	4254841.45	0.001445859	0.000178933	0.000603678	0.000366584	0.002595054	41.30443	5.23031	9.79163	5.94598
634694.9	4254817.54	0.001436937	0.000189888	0.000623642	0.000385465	0.002635932	41.04955	5.55052	10.11545	6.25222
634697.8	4254793.64	0.001427978	0.00020212	0.00064125	0.000405745	0.002677092	40.7936	5.90807	10.40104	6.58117
634700.6	4254769.73	0.001419333	0.000215878	0.000655938	0.000425837	0.002716986	40.54665	6.31023	10.63928	6.90706
634703.4	4254745.82	0.001421941	0.000231901	0.000696658	0.000456682	0.002807183	40.62116	6.77859	11.29977	7.40737

634678	4255092.2	0.001239918	0.000111144	0.000384584	0.00022200	0.001969536	25 42122	2 2/1001	6 22704	2 70260
634680.8	4255082.2 4255058.3	0.001239918	0.000111144 0.000115748	0.000384584	0.00023389 0.000243785	0.001969336	35.42122 35.30052	3.24881 3.38338	6.23794 6.54768	3.79368 3.95418
634683.6	4255034.39	0.001230904	0.000113748	0.000423851	0.000254117	0.001998900	35.16371	3.52805	6.87485	4.12177
		0.001230904		0.000425851		0.00202337				
634686.5	4255010.48		0.000126028		0.000265353 0.000277672		35.02265	3.68388	7.2186	4.30402
634689.3	4254986.57	0.0012208	0.000131786	0.000467178		0.002097435	34.87506	3.85219	7.5776	4.50382
634692.1 634695	4254962.67 4254938.76	0.001214546 0.001207412	0.00013801 0.000144764	0.000489374 0.000511479	0.000290202 0.000302913	0.002132132 0.002166568	34.6964	4.03411 4.23154	7.93762 8.29617	4.70707 4.91324
							34.4926			
634697.8	4254914.85	0.001201054	0.000152147	0.000534879	0.000317163	0.002205242	34.31098	4.44733	8.67571	5.14437
634700.6	4254890.95	0.001194572	0.000160221	0.000558235	0.000333534	0.002246563	34.12581	4.68336	9.05455	5.40991
634703.5	4254867.04	0.001187851	0.000169098	0.000581157	0.000349797	0.002287903	33.9338	4.94283	9.42634	5.6737
634706.3	4254843.13	0.001181212	0.000178903	0.000603563	0.000367142	0.00233082	33.74415	5.22944	9.78977	5.95502
634709.1	4254819.22	0.001174312	0.000189778	0.000624434	0.000386337	0.002374862	33.54704	5.54731	10.1283	6.26637
634712	4254795.32	0.001167291	0.000201906	0.000643466	0.000406005	0.002418668	33.34646	5.90182	10.43699	6.58539
634714.8	4254771.41	0.001163937	0.000215644	0.0006661	0.000429949	0.00247563	33.25064	6.30338	10.80412	6.97376
634717.6	4254747.5	0.001161589	0.000231226	0.000692298	0.000457662	0.002542775	33.18356	6.75887	11.22905	7.42326
634692.2	4255083.88	0.001040429	0.000111271	0.000384869	0.000234092	0.001770661	29.72233	3.2525	6.24256	3.79697
634695	4255059.98	0.001037486	0.000115863	0.000403878	0.000243957	0.001801184	29.63826	3.38673	6.55089	3.95697
634697.8	4255036.07	0.001034047	0.000120796	0.000423866	0.000254456	0.001833164	29.54003	3.53092	6.87508	4.12727
634700.6	4255012.16	0.001030327	0.000126108	0.000444909	0.000265413	0.001866757	29.43376	3.6862	7.2164	4.30499
634703.5	4254988.26	0.001026186	0.000131839	0.000466856	0.000277678	0.00190256	29.31546	3.85374	7.57239	4.50392
634706.3	4254964.35	0.001020876	0.000138031	0.000488515	0.000290003	0.001937425	29.16376	4.03471	7.9237	4.70384
634709.1	4254940.44	0.001014684	0.000144739	0.000509932	0.000303299	0.001972654	28.98688	4.23079	8.27108	4.91949
634712	4254916.53	0.001009894	0.000152077	0.000533337	0.000317745	0.002013053	28.85004	4.44529	8.6507	5.15381
634714.8	4254892.63	0.001004816	0.000160095	0.000556747	0.000334281	0.00205594	28.70498	4.67968	9.03042	5.42202
634717.6	4254868.72	0.000999377	0.000168901	0.00057978	0.000350814	0.002098872	28.5496	4.93706	9.40401	5.69019
634720.5	4254844.81	0.000993827	0.000178606	0.000601967	0.000368114	0.002142514	28.39105	5.22074	9.76388	5.97079
634723.3	4254820.9	0.000988085	0.000189353	0.000622823	0.000387791	0.002188052	28.22701	5.5349	10.10217	6.28995
634726.1	4254797	0.000982233	0.000201311	0.000641887	0.000408644	0.002234075	28.05983	5.88444	10.41138	6.62818
634729	4254773.09	0.000981876	0.000214923	0.000672377	0.000436073	0.002305249	28.04965	6.28232	10.90593	7.07308
634731.8	4254749.18	0.0009747	0.000230006	0.000685101	0.000459677	0.002349484	27.84465	6.72319	11.11231	7.45594
634706.3	4255085.57	0.000892758	0.000111297	0.000384479	0.000234157	0.00162269	25.50376	3.25326	6.23623	3.79802
634709.2	4255061.66	0.000890257	0.000115865	0.000403026	0.000243861	0.001653009	25.43233	3.3868	6.53706	3.95541
634712	4255037.75	0.000887564	0.00012077	0.000422652	0.000254253	0.001685239	25.35538	3.53018	6.85539	4.12398
634714.8	4255013.84	0.00088449	0.000126047	0.000443195	0.000265322	0.001719054	25.26758	3.68443	7.1886	4.30351
634717.7	4254989.94	0.00088106	0.000131737	0.000464552	0.000277484	0.001754833	25.16959	3.85074	7.53501	4.50078
634720.5	4254966.03	0.000877059	0.000137887	0.000486266	0.000289998	0.00179121	25.0553	4.0305	7.88722	4.70375
634723.3	4254942.12	0.000872545	0.000144554	0.00050823	0.000303625	0.001828954	24.92633	4.22538	8.24347	4.92479
634726.2	4254918.21	0.000868463	0.000151821	0.000531236	0.000318108	0.001869627	24.80971	4.43782	8.61662	5.15969
634729	4254894.31	0.000864095	0.000159753	0.000554203	0.000334665	0.001912716	24.68495	4.66967	8.98915	5.42825
634731.8	4254870.4	0.000859412	0.000168446	0.000576682	0.000350405	0.001954945	24.55116	4.92377	9.35375	5.68356
634734.7	4254846.49	0.000854559	0.000178012	0.000598501	0.000369548	0.002000621	24.41252	5.2034	9.70766	5.99406
634737.5	4254822.58	0.000849416	0.000178512	0.000619156	0.000388604	0.002045759	24.2656	5.51238	10.04269	6.30314
634740.3	4254798.68	0.00084417	0.000200313	0.000638336	0.000409779	0.002092598	24.11574	5.85525	10.35378	6.6466
634743.2	4254774.77	0.000842221	0.000213572	0.000665697	0.000433695	0.002052550	24.06005	6.24284	10.79758	7.03451
634746	4254750.86	0.000835698	0.000213372	0.000679658	0.000457789	0.002133103	23.8737	6.67189	11.02402	7.42532
634720.5	4255087.25	0.000778724	0.000111227	0.000383483	0.000233982	0.001507416	22.24612	3.25124	6.22007	3.79517
634723.4	4255067.25	0.000776404	0.000111227	0.000383483	0.000233582	0.001537410	22.17985	3.38361	6.50726	3.9506
634726.2	4255039.43	0.000774312	0.000113730	0.000401189	0.000253934	0.001550915	22.17983	3.52593	6.82075	4.1188
634726.2	4255039.43	0.000774312		0.000420316		0.001569387		3.52593	7.14837	4.1188
			0.000125858		0.000265215		22.05081			
634731.9	4254991.62	0.000769084	0.000131495	0.000461682	0.000276999	0.001639261	21.97073	3.84368	7.48847	4.49291
634734.7	4254967.71	0.000765959	0.000137588	0.000483298	0.000289611	0.001676455	21.88144	4.02176	7.83908	4.69747
634737.5	4254943.8	0.000762517	0.000144187	0.000505374	0.000303413	0.001715492	21.78313	4.21467	8.19715	4.92135
634740.4	4254919.89	0.000758718	0.000151357	0.000527683	0.00031777	0.001755529	21.67459	4.42426	8.559	5.15422
634743.2	4254895.99	0.000754705	0.000159169	0.000549945	0.000334272	0.001798091	21.55995	4.65259	8.92009	5.42188
634746	4254872.08	0.000750432	0.000167715	0.000571882	0.00035	0.001840029	21.43788	4.90239	9.2759	5.67699
634748.8	4254848.17	0.00074612	0.000177104	0.000593669	0.0003684	0.001885293	21.3147	5.17684	9.62929	5.97544
634751.7	4254824.26	0.000742138	0.000187477	0.000616071	0.000388021	0.001933706	21.20094	5.48006	9.99264	6.29368
634754.5	4254800.36	0.000737226	0.000198921	0.000635912	0.000408251	0.001980309	21.06061	5.81456	10.31446	6.62181
634757.3	4254776.45	0.000732902	0.000211692	0.000657112	0.000432261	0.002033966	20.93709	6.18788	10.65832	7.01125
634760.2	4254752.54	0.000727589	0.000225916	0.00067544	0.00045652	0.002085464	20.78531	6.60364	10.95561	7.40473
634734.7	4255088.93	0.000687937	0.000111066	0.000382089	0.000233674	0.001414766	19.65256	3.24653	6.19746	3.79019
634737.5	4255065.02	0.00068592	0.00011555	0.000399163	0.000243166	0.001443798	19.59495	3.37758	6.4744	3.94414
634740.4	4255041.11	0.000684306	0.00012037	0.000418079	0.000253438	0.001476195	19.54885	3.51849	6.78123	4.11076
634743.2	4255017.2	0.000682283	0.000125547	0.000437816	0.000264594	0.001510241	19.49106	3.6698	7.10136	4.29171
634746	4254993.3	0.000679909	0.000131118	0.000458414	0.000275982	0.001545423	19.42322	3.83266	7.43546	4.47641
634748.9	4254969.39	0.000677243	0.000137131	0.000479658	0.000288882	0.001582915	19.34707	4.00843	7.78003	4.68566
634751.7	4254945.48	0.000674252	0.000143636	0.000501377	0.000302659	0.001621923	19.26161	4.19855	8.13231	4.90912
634754.5	4254921.57	0.000670953	0.00015069	0.000523377	0.000317009	0.001662029	19.16737	4.40476	8.48915	5.14187
634757.4	4254897.67	0.000667361	0.00015836	0.000545433	0.000332205	0.001703359	19.06477	4.62895	8.8469	5.38835
634760.2	4254873.76	0.000663443	0.00016673	0.000567312	0.000348561	0.001746046	18.95284	4.87362	9.20178	5.65364
634763	4254849.85	0.000659565	0.000175906	0.000589467	0.000366985	0.001791923	18.84206	5.14182	9.56113	5.95248
634765.9	4254825.95	0.000656154	0.000186022	0.000613365	0.000387793	0.001843334	18.7446	5.43753	9.94875	6.28999
634768.7	4254802.04	0.000651523	0.000197122	0.000633785	0.000407193	0.001889623	18.61231	5.76199	10.27996	6.60466
634771.5	4254778.13	0.000646538	0.000209398	0.000653235	0.000430116	0.001939287	18.4699	6.12083	10.59544	6.97647
634774.4	4254754.22	0.000641571	0.000223063	0.000673697	0.000455521	0.001993852	18.328	6.52027	10.92734	7.38853
634784.4	4255094.81	0.000475263	0.000109782	0.000372256	0.000230757	0.001188058	13.57703	3.20898	6.03797	3.74287
634787.2	4255070.9	0.000475166	0.000114079	0.000389401	0.000240251	0.001218897	13.57426	3.33458	6.31607	3.89686
634790	4255046.99	0.000474598	0.00011866	0.000407275	0.00025019	0.001250723	13.55803	3.46849	6.60598	4.05807
634792.9	4255023.09	0.000473665	0.000123555	0.000426081	0.000260806	0.001284108	13.53138	3.61157	6.91102	4.23027
634795.7	4254999.18	0.000472392	0.000128794	0.000445644	0.000272177	0.001319007	13.495	3.76473	7.22832	4.4147
634798.5	4254975.27	0.000470738	0.00013441	0.00046581	0.000284565	0.001355522	13.44775	3.92887	7.55542	4.61563
634801.4	4254951.36	0.000468743	0.000140438	0.00048652	0.000297151	0.001392852	13.39077	4.10507	7.89134	4.81978
634804.2	4254927.46	0.000466418	0.000146917	0.000507603	0.000311331	0.00143227	13.32435	4.29448	8.2333	5.04978
634807	4254903.55	0.000463749	0.0001539	0.000528841	0.000326182	0.001472671	13.2481	4.49858	8.57777	5.29065
634809.9	4254879.64	0.0004608	0.000161436	0.000549938	0.000341863	0.001514037	13.16386	4.71886	8.91997	5.54501
634812.7	4254855.73	0.00045754	0.000169581	0.000570527	0.000359509	0.001557158	13.07072	4.95696	9.25393	5.83122
634815.5	4254831.83	0.000453957	0.000178397	0.000590171	0.000377697	0.001600222	12.96837	5.21463	9.57255	6.12623

624040.2	425 4007 02	0.00045004	0.000407057	0.000000004	0.000000074	0.00464276	12.05610	F 40400	0.00000	C 42042
634818.3	4254807.92	0.00045004	0.000187957	0.000608391	0.000396371	0.00164276	12.85648	5.49409	9.86808	6.42912
634821.2	4254784.01	0.000445739	0.000198328	0.000624629	0.000417247	0.001685943	12.7336	5.79723	10.13145	6.76773
634824	4254760.11	0.00044119	0.000209592	0.000638909	0.000438997	0.001728688	12.60366	6.1265	10.36307	7.12051
634834	4255100.69	0.000350574	0.000107464	0.000358177	0.000226082	0.001042297	10.01499	3.14123	5.80962	3.66704
634836.9	4255076.78	0.000350456	0.000111434	0.000373112	0.000234835	0.001069837	10.01162	3.25728	6.05186	3.80901
634839.7	4255052.87	0.000350173	0.000115649	0.000389086	0.000244196	0.001099103	10.00354	3.38047	6.31095	3.96085
634842.5	4255028.97	0.000349651	0.000120123	0.000405894	0.000254271	0.001129938	9.98861	3.51125	6.58359	4.12426
634845.3	4255005.06	0.000348812	0.000124874	0.000423157	0.000265029	0.001161872	9.96466	3.65014	6.86358	4.29876
634848.2	4254981.15	0.000347663	0.000129923	0.0004407	0.000276829	0.001195116	9.93182	3.79773	7.14814	4.49016
634851	4254957.25	0.000346186	0.00013529	0.000458292	0.000288866	0.001228634	9.88962	3.95461	7.43348	4.6854
634853.8	4254933.34	0.000344415	0.000141005	0.000475634	0.000301952	0.001263007	9.83905	4.12166	7.71477	4.89765
634856.7	4254909.43	0.000342319	0.00014709	0.000492304	0.000315361	0.001297075	9.77917	4.29953	7.98515	5.11514
634859.5	4254885.52	0.000339921	0.000153574	0.000508079	0.000330076	0.001331651	9.71067	4.48905	8.24102	5.35382
634862.3	4254861.62	0.000337217	0.00016048	0.000522556	0.00034517	0.001365424	9.63342	4.69093	8.47584	5.59865
634865.2	4254837.71	0.000337217	0.00016782	0.000534424	0.000361349	0.001397657	9.54335	4.90548	8.66833	5.86106
634868	4254813.8	0.000334664	0.000175622	0.000533424	0.000377738	0.001427931	9.44436	5.13354	8.82319	6.1269
634870.8	4254789.89	0.000326863	0.000183902	0.000551204	0.000395061	0.001457031	9.33763	5.37557	8.94051	6.40788
634873.7	4254765.99	0.000323042	0.000192684	0.000556932	0.000415102	0.00148776	9.22848	5.63225	9.03341	6.73293
634883.7	4255106.57	0.000268932	0.000104112	0.000337804	0.000219467	0.000930315	7.68268	3.04326	5.47917	3.55974
634886.5	4255082.66	0.000268815	0.00010769	0.000350568	0.000227583	0.000954656	7.67935	3.14783	5.6862	3.69139
634889.3	4255058.76	0.000268415	0.000111448	0.000363389	0.000236114	0.000979366	7.66791	3.25768	5.89416	3.82976
634892.2	4255034.85	0.000267844	0.000115411	0.000376714	0.000245126	0.001005096	7.65161	3.37352	6.11029	3.97594
634895	4255010.94	0.000267066	0.000119588	0.000390271	0.000254879	0.001031805	7.62939	3.49562	6.33018	4.13413
634897.8	4254987.03	0.000266029	0.000123986	0.00040369	0.000264988	0.001058694	7.59975	3.62419	6.54784	4.2981
634900.7	4254963.13	0.000264757	0.000128619	0.000416777	0.000275897	0.001086049	7.56341	3.7596	6.76011	4.47503
634903.5	4254939.22	0.000263236	0.000133499	0.000429301	0.000287072	0.001113108	7.51998	3.90226	6.96324	4.65629
634906.3	4254915.31	0.000261464	0.000138636	0.000440968	0.000299184	0.001140252	7.46934	4.05241	7.15248	4.85275
634909.2	4254891.41	0.000251404	0.000138030	0.000440308	0.000233104	0.001140232	7.41133	4.21014	7.32232	5.05262
634912	4254867.5	0.000259433	0.000144032	0.000451439	0.000311300	0.001100411	7.41133	4.21014	7.46622	5.26004
	4254867.5									
634914.8		0.000254568	0.000155597	0.000467107	0.000338235	0.001215507	7.27235	4.5482	7.57645	5.48615
634917.7	4254819.68	0.000251735	0.000161732	0.000471179	0.000352256	0.001236901	7.19141	4.72752	7.6425	5.71357
634920.5	4254795.78	0.00024862	0.000168049	0.00047168	0.00036678	0.001255129	7.10242	4.91217	7.65063	5.94916
634923.3	4254771.87	0.000245216	0.000174488	0.000467594	0.000382785	0.001270084	7.00519	5.10039	7.58436	6.20875
634933.3	4255112.45	0.000212102	9.99095E-05	0.000312819	0.000210714	0.000835545	6.05921	2.92041	5.07391	3.41777
634936.2	4255088.55	0.000211809	0.000103061	0.000322969	0.00021787	0.000855708	6.05082	3.01252	5.23854	3.53384
634939	4255064.64	0.000211388	0.00010636	0.000333463	0.000225633	0.000876843	6.0388	3.10897	5.40875	3.65975
634941.8	4255040.73	0.000210763	0.000109806	0.000343791	0.000233611	0.00089797	6.02094	3.20969	5.57627	3.78916
634944.7	4255016.82	0.000209978	0.000113408	0.000354045	0.000242176	0.000919607	5.99853	3.31499	5.74259	3.92808
634947.5	4254992.92	0.000208992	0.000117166	0.000363822	0.000250956	0.000940936	5.97036	3.42482	5.90118	4.07049
634950.3	4254969.01	0.000207812	0.000121084	0.000372994	0.000260372	0.000962262	5.93666	3.53935	6.04994	4.22323
634953.1	4254945.1	0.000207812	0.000121084	0.000372334	0.000269954	0.000982846	5.89731	3.65849	6.18462	4.37865
634956	4254921.19	0.000204727	0.000129362	0.000387107	0.000279268	0.001000464	5.84853	3.78131	6.27886	4.52971
634958.8	4254897.29	0.000202909	0.000133714	0.000392111	0.00028973	0.001018464	5.79657	3.90854	6.36002	4.69941
634961.6	4254873.38	0.000200916	0.000138193	0.000395377	0.000300605	0.001035091	5.73965	4.03945	6.413	4.8758
634964.5	4254849.47	0.000198709	0.000142756	0.000395983	0.000311903	0.001049351	5.67661	4.17285	6.42282	5.05905
634967.3	4254825.57	0.000196283	0.000147358	0.00039336	0.000323639	0.00106064	5.60728	4.30735	6.38029	5.24941
634970.1	4254801.66	0.000193622	0.000151942	0.000386976	0.000336066	0.001068606	5.53127	4.44134	6.27673	5.45098
634973	4254777.75	0.000190741	0.000156442	0.000376466	0.000348555	0.001072204	5.44897	4.5729	6.10626	5.65354
635032.6	4255124.22	0.000139967	9.00623E-05	0.000256634	0.000188878	0.000675541	3.9985	2.63257	4.16259	3.06359
635035.5	4255100.31	0.000139404	9.24149E-05	0.000261996	0.000194345	0.00068816	3.9824	2.70134	4.24957	3.15226
635038.3	4255076.4	0.000138781	9.48391E-05	0.000267167	0.00020006	0.000700847	3.9646	2.7722	4.33344	3.24496
635041.1	4255052.49	0.000138035	9.73187E-05	0.000271566	0.000205901	0.000712821	3.9433	2.84468	4.40479	3.33971
635044	4255028.59	0.000137174	9.98476E-05	0.000275263	0.000211878	0.000724162	3.91869	2.9186	4.46476	3.43665
635046.8	4255004.68	0.000136168	0.000102412	0.000277708	0.000217842	0.00073413	3.88997	2.99356	4.50441	3.53338
635049.6	4254980.77	0.000130108	0.000102412	0.000277708	0.000217842	0.00073413	3.85892	3.06957	4.53301	3.63637
635052.5	4254956.87	0.00013388	0.000107624	0.000280017	0.000230605	0.000752126	3.82461	3.1459	4.54187	3.7404
635055.3	4254932.96	0.000132556	0.000110225	0.000279162	0.00023711	0.000759054	3.78679	3.22195	4.528	3.84591
635058.1	4254909.05	0.000131106	0.000112791	0.000276742	0.000243632	0.000764272	3.74537	3.29694	4.48875	3.9517
635060.9	4254885.14	0.000129528	0.000115292	0.000272626	0.00025015	0.000767596	3.70029	3.37005	4.42198	4.05742
635063.8	4254861.24	0.000127817	0.000117695	0.000266704	0.000256757	0.000768973	3.65139	3.44029	4.32593	4.16459
635066.6	4254837.33	0.000125983	0.000119975	0.00025896	0.000263087	0.000768005	3.599	3.50695	4.20032	4.26726
635069.4	4254813.42	0.000124023	0.000122101	0.000249385	0.000269177	0.000764686	3.54301	3.56908	4.04501	4.36604
635072.3	4254789.51	0.000121944	0.000124049	0.000238164	0.000275067	0.000759224	3.48363	3.62602	3.86301	4.46157
635131.9	4255135.98	9.78175E-05	7.96492E-05	0.000201571	0.000165135	0.000544174	2.79439	2.32819	3.26948	2.67849
635134.8	4255112.07	9.71062E-05	8.12838E-05	0.000202946	0.00016875	0.000550086	2.77407	2.37597	3.29178	2.73712
635137.6	4255088.17	9.63413E-05	8.29187E-05	0.000203791	0.00017236	0.000555411	2.75222	2.42376	3.30548	2.79567
635140.4	4255064.26	9.55173E-05	8.45444E-05	0.000204031	0.00017230	0.000560055	2.72868	2.47128	3.30938	2.85409
635143.3	4255040.35	9.4638E-05	8.61509E-05	0.000203608	0.000179568	0.000563965	2.70356	2.51824	3.30251	2.91259
635145.5	4255040.55	9.4656E-05 9.36991E-05	8.7724E-05	0.000203608	0.000179368	0.000565965	2.67674	2.51624	3.2837	2.91239
635148.9	4254992.54	9.26994E-05	8.92494E-05	0.000200491	0.000186529	0.000568968	2.64818	2.60881	3.25195	3.02549
635151.8	4254968.63	9.16377E-05	9.07143E-05	0.000197685	0.000189882	0.000569919	2.61785	2.65163	3.20645	3.07987
635154.6	4254944.72	9.05102E-05	9.21019E-05	0.000193988	0.000193077	0.000569677	2.58564	2.69219	3.14648	3.1317
635157.4	4254920.81	8.93246E-05	9.34012E-05	0.000189388	0.000196107	0.000568221	2.55177	2.73017	3.07187	3.18085
635160.3	4254896.91	8.80787E-05	9.45983E-05	0.000183899	0.000198872	0.000565448	2.51618	2.76516	2.98283	3.2257
635163.1	4254873	8.67762E-05	9.56855E-05	0.000177577	0.000201338	0.000561377	2.47897	2.79694	2.88029	3.2657
635165.9	4254849.09	8.54212E-05	9.66554E-05	0.000170522	0.000203427	0.000556025	2.44026	2.82529	2.76586	3.29957
635168.8	4254825.18	8.40171E-05	9.75034E-05	0.000162878	0.00020505	0.000549449	2.40015	2.85008	2.64187	3.32591
635171.6	4254801.28	8.25795E-05	9.82338E-05	0.000154848	0.000206132	0.000541794	2.35908	2.87143	2.51163	3.34346
635231.2	4255147.74	7.10817E-05	6.94564E-05	0.000154447	0.000140971	0.000435956	2.03062	2.03025	2.50512	2.28654
635234.1	4255123.84	7.03543E-05	7.04828E-05	0.000153676	0.000142988	0.000437501	2.00984	2.06025	2.49261	2.31926
635236.9	4255099.93	6.95951E-05	7.14745E-05	0.000152479	0.000144921	0.00043847	1.98815	2.08924	2.4732	2.35062
635239.7	4255076.02	6.88057E-05	7.24242E-05	0.000150835	0.000111321	0.000438816	1.9656	2.117	2.44653	2.3803
635242.6	4255070.02	6.7987E-05	7.3324E-05	0.000130833	0.000148751	0.000438486	1.94221	2.117	2.41225	2.3803
635245.4	4255032.11	6.7987E-05 6.71384E-05	7.41642E-05	0.000146721	0.000148434	0.000438486	1.91797	2.1455	2.3701	2.43303
635248.2	4255004.3	6.62668E-05	7.49425E-05	0.000143053	0.000151378	0.00043564	1.89307	2.19061	2.32031	2.45534
635251.1	4254980.39	6.53721E-05	7.56506E-05	0.000139519	0.000152547	0.000433089	1.86751	2.21131	2.26299	2.47431
635253.9	4254956.48	6.44581E-05	7.62852E-05	0.00013555	0.000153489	0.000429783	1.8414	2.22986	2.19862	2.48959

635256.7	4254932.58	6.35294E-05	7.68432E-05	0.000131191	0.000154144	0.000425708	1.81487	2.24617	2.12791	2.50021
635259.6	4254908.67	6.25874E-05	7.73229E-05	0.000126498	0.000154479	0.000420887	1.78796	2.26019	2.05179	2.50564
635262.4	4254884.76	6.16423E-05	7.77272E-05	0.000121555	0.000154467	0.000415391	1.76096	2.27201	1.97162	2.50544
635265.2	4254860.86	6.06979E-05	7.8056E-05	0.000116452	0.000154066	0.000409271	1.73398	2.28162	1.88884	2.49894
635268.1	4254836.95	5.97594E-05	7.83119E-05	0.000111281	0.000153269	0.000402622	1.70717	2.2891	1.80498	2.48602
635270.9	4254813.04	5.88332E-05	7.84966E-05	0.000106161	0.000152041	0.000395531	1.68071	2.2945	1.72192	2.4661
635330.5	4255159.51	5.32009E-05	5.998E-05	0.000117648	0.000118347	0.000349175	1.51981	1.75325	1.90824	1.91958
635333.4	4255135.6	5.254E-05	6.05514E-05	0.000116013	0.000119201	0.000348305	1.50093	1.76995	1.88172	1.93344
635336.2	4255111.69	5.18651E-05	6.10782E-05	0.000114098	0.000119926	0.000346967	1.48165	1.78535	1.85066	1.94519
635339	4255087.79	5.11814E-05	6.15585E-05	0.000111915	0.000120511	0.000345166	1.46212	1.79939	1.81526	1.95468
635341.9	4255063.88	5.04904E-05	6.19899E-05	0.000111313	0.00012094	0.00034289	1.44238	1.812	1.7756	1.96164
635344.7	4255039.97	4.97952E-05	6.23693E-05	0.00010547	0.00012034	0.00034233	1.42252	1.82309	1.73194	1.96571
635347.5	4255016.06	4.90983E-05	6.26964E-05	0.000100778	0.000121131	0.000346134	1.40261	1.83265	1.68463	1.96665
				0.000103802		0.0003333213				
635350.4	4254992.16	4.84027E-05	6.29687E-05	9.74744E-05	0.000121095		1.38274	1.84061	1.63411	1.96415
635353.2	4254968.25	4.77149E-05	6.31897E-05		0.00012072	0.000329099	1.36309	1.84707	1.58103	1.95807
635356	4254944.34	4.70368E-05	6.33594E-05	9.4081E-05	0.000120107	0.000324584	1.34372	1.85203	1.52599	1.94813
635358.9	4254920.43	4.63728E-05	6.34784E-05	9.06161E-05	0.000119245	0.000319712	1.32475	1.85551	1.46979	1.93415
635361.7	4254896.53	4.5727E-05	6.35479E-05	8.7134E-05	0.000118127	0.000314536	1.3063	1.85754	1.41331	1.91601
635364.5	4254872.62	4.51021E-05	6.35681E-05	8.36846E-05	0.000116743	0.000309098	1.28845	1.85813	1.35736	1.89357
635367.4	4254848.71	4.45039E-05	6.35431E-05	8.03325E-05	0.000115103	0.000303483	1.27136	1.8574	1.30299	1.86697
635370.2	4254824.8	4.39347E-05	6.34743E-05	7.71284E-05	0.000113206	0.000297744	1.2551	1.85539	1.25102	1.8362
634692.4	4254721.44	0.001786736	0.000249079	0.000690244	0.000475833	0.003201892	51.04239	7.28072	11.19572	7.71799
634695.7	4254698.43	0.00176222	0.000269012	0.000690332	0.000501738	0.003223302	50.34203	7.86338	11.19715	8.13817
634698.9	4254675.43	0.001722483	0.000291415	0.000656071	0.000518611	0.003188581	49.20686	8.51823	10.64145	8.41184
634702.1	4254652.42	0.001697598	0.000318433	0.000651039	0.000547635	0.003214706	48.49596	9.30798	10.55983	8.88261
634705.3	4254629.42	0.001673493	0.000350693	0.000649078	0.000579515	0.003252779	47.80734	10.25094	10.52802	9.39971
634708.6	4254606.41	0.00164881	0.00038984	0.000653083	0.000617721	0.003309453	47.1022	11.39523	10.59298	10.0194
634711.8	4254583.41	0.001622882	0.000438245	0.000667021	0.000655674	0.003383822	46.36151	12.81015	10.81905	10.635
634715	4254560.4	0.001598582	0.000500015	0.000693334	0.000706326	0.003498257	45.66733	14.61572	11.24585	11.45657
634718.3	4254537.4	0.001571147	0.000580339	0.000721733	0.000760556	0.003633776	44.88358	16.96364	11.70648	12.33619
634721.5	4254514.39	0.001542149	0.00068779	0.000722313	0.000817765	0.003770017	44.05517	20.10449	11.71588	13.26411
634724.7	4254491.39	0.001512392	0.000831263	0.000638914	0.000892026	0.003874595	43.2051	24.29827	10.36316	14.46863
634727.9	4254468.38	0.001480097	0.000999623	0.000430083	0.000974836	0.00388464	42.28252	29.21955	6.97593	15.8118
634731.2	4254445.38	0.001444741	0.001130871	0.000430003	0.001347642	0.00461385	41.27247	33.056	11.20145	21.85869
634706.6	4254723.43	0.001404061	0.0001130071	0.000690786	0.001347042	0.002822193	40.11035	7.26523	11.20452	7.76607
634700.8	4254725.43	0.001385436	0.000248349	0.000693309	0.000478737	0.002822193	39.57828	7.20323	11.24544	8.14918
634713	4254677.41	0.001364613	0.000290638	0.000698803	0.000530218	0.002884271	38.98343	8.4955	11.33455	8.60011
634716.3	4254654.41	0.001342571	0.000316827	0.000694255	0.000555813	0.002909466	38.35374	9.26102	11.26079	9.01527
634719.5	4254631.4	0.001322036	0.000347973	0.000699489	0.000589168	0.002958666	37.76713	10.17144	11.34568	9.55628
634722.7	4254608.4	0.001302929	0.000385542	0.000715911	0.000627486	0.003031868	37.22127	11.26961	11.61204	10.1778
634725.9	4254585.39	0.001281355	0.000431192	0.000743698	0.000666672	0.003122917	36.60497	12.60397	12.06275	10.81339
634729.2	4254562.39	0.001262937	0.000488512	0.000788708	0.000716712	0.003256869	36.07881	14.27948	12.79281	11.62504
634732.4	4254539.38	0.001240778	0.000560003	0.000836676	0.000772244	0.003409701	35.44578	16.36919	13.57085	12.52577
634735.6	4254516.38	0.001216502	0.00064881	0.000846314	0.000829607	0.003541233	34.75228	18.96508	13.72718	13.45619
634738.9	4254493.37	0.001192217	0.000753197	0.000717009	0.000899764	0.003562187	34.05854	22.01636	11.62985	14.59414
634742.1	4254470.37	0.001165687	0.000853468	0.000453012	0.00097372	0.003445886	33.30065	24.94733	7.34783	15.79369
634745.3	4254447.36	0.00113705	0.000925405	0.000665911	0.001306394	0.00403476	32.48256	27.0501	10.80104	21.18966
634720.7	4254725.41	0.001149642	0.000247465	0.00071051	0.000483547	0.002591163	32.84226	7.23354	11.52444	7.84311
634724	4254702.41	0.001135471	0.000266595	0.000710205	0.000508497	0.002620768	32.43744	7.79272	11.51949	8.2478
634727.2	4254679.4	0.001120514	0.000288665	0.000728012	0.000539372	0.002676563	32.01015	8.43785	11.80832	8.74859
634730.4	4254656.39	0.001101495	0.000313959	0.000722992	0.000565645	0.002704091	31.46683	9.17719	11.7269	9.17474
634733.6	4254633.39	0.001082191	0.000343514	0.000728622	0.000595177	0.002749504	30.91538	10.04111	11.81822	9.65374
634736.9	4254610.38	0.001065923	0.000378942	0.000753262	0.000634325	0.002832452	30.45064	11.07669	12.21787	10.28873
634740.1	4254587.38	0.001047617	0.000421117	0.000791408	0.000677322	0.002937464	29.92769	12.30947	12.8366	10.98614
634743.3	4254564.37	0.001031713	0.000472523	0.000845775	0.00072516	0.003075171	29.47336	13.8121	13.71844	11.76206
634746.6	4254541.37	0.001013145	0.000533618	0.000892691	0.000779143	0.003218597	28.9429	15.59796	14.47941	12.63767
634749.8	4254518.36	0.001013143	0.000603665	0.000869496	0.000775143	0.003210357	28.35961	17.64546	14.10318	13.55935
634753	4254495.36	0.000971798	0.000676348	0.000686101	0.000900313	0.003301034	27.76173	19.77004	11.12853	14.60304
634756.2	4254472.35	0.000948745	0.000737694	0.000451714	0.000976361	0.003114514	27.10317	21.56321	7.32678	15.83653
634759.5	4254449.35	0.000923621	0.000781311	0.000640724	0.001189279	0.003534935	26.38543	22.83815	10.39252	19.29006
634734.9 634738.1	4254727.4 4254704.39	0.000961831 0.000954522	0.000245429 0.000264197	0.000692413 0.000718446	0.00047948 0.000511877	0.002379153 0.002449042	27.477 27.26821	7.17403 7.72263	11.23091 11.65316	7.77715 8.30262
634741.3	4254681.39	0.000942136	0.000285385	0.000730033	0.000542083	0.002499637	26.91436	8.34195	11.84111	8.79257
634744.6	4254658.38	0.000926707	0.000309601	0.00073625	0.000570138	0.002542697	26.47361	9.04982	11.94194	9.24762
634747.8	4254635.37	0.000909916	0.000337477	0.000747364	0.000602865	0.002597622	25.99393	9.86463	12.12221	9.77845
634751	4254612.37	0.000894544	0.000370121	0.000776706	0.000639431	0.002680801	25.55478	10.81883	12.59814	10.37154
634754.2	4254589.36	0.00087951	0.000408427	0.000820503	0.000681889	0.002790329	25.1253	11.93855	13.30853	11.06021
634757.5	4254566.36	0.000864596	0.000453085	0.000868957	0.000727364	0.002914003	24.69926	13.24392	14.09445	11.79782
634760.7	4254543.35	0.00084837	0.000503542	0.000887801	0.000780468	0.003020181	24.23572	14.7188	14.40009	12.65916
634763.9	4254520.35	0.000830846	0.000557005	0.00081182	0.000836107	0.003035778	23.73509	16.28158	13.16769	13.56162
634767.2	4254497.34	0.000811904	0.000607008	0.000606899	0.0008985	0.002924311	23.19399	17.74317	9.84387	14.57363
634770.4	4254474.34	0.000791279	0.000646409	0.000431957	0.000968427	0.002838072	22.60478	18.8949	7.00632	15.70785
634773.6	4254451.33	0.000769164	0.000675518	0.00058731	0.001094006	0.003125999	21.97302	19.74578	9.52614	17.74473
634749	4254729.38	0.000825454	0.000242985	0.000691022	0.000481212	0.002240672	23.58106	7.10258	11.20835	7.80523
634752.2	4254706.38	0.000818333	0.000242303	0.000717046	0.000511736	0.002308062	23.37765	7.62762	11.63045	8.30034
634755.5	4254683.37	0.000810353	0.00028111	0.000717040	0.000511750	0.002363381	23.06401	8.21699	11.878	8.80109
634758.7	4254660.37	0.000807334	0.00028111	0.000732308	0.000572601	0.002303381	22.69165	8.88437	12.0871	9.28756
634761.9	4254637.36	0.00079432	0.000303941	0.000743199	0.000372001	0.002479761	22.2995	9.64478	12.39909	9.80949
634765.2	4254637.36	0.000765819	0.000329933	0.000764434	0.000604779	0.002479761	21.87744	10.50939	12.86081	9.80949 10.38978
634768.4	4254591.35	0.000752986	0.000393578	0.000830344	0.000680599	0.002657507	21.51084	11.50451	13.46814	11.03929
634771.6	4254568.34	0.000739226	0.00043157	0.000854602	0.000724735	0.002750132	21.11775	12.61502	13.86161	11.75517
634774.8	4254545.34	0.000724509	0.000472169	0.000830042	0.000776358	0.002803077	20.69733	13.80175	13.46324	12.59249
634778.1	4254522.33	0.000708563	0.000512199	0.000713556	0.00083022	0.002764538	20.24181	14.97186	11.57385	13.46613
634781.3	4254499.33	0.000691264	0.000546949	0.000520873	0.000890689	0.002649775	19.74762	15.98761	8.44853	14.44694
634784.5	4254476.32	0.000672539	0.00057369	0.000401433	0.000958781	0.002606442	19.21268	16.76927	6.51122	15.55139
							40.64206			
634787.8	4254453.32	0.000652599	0.000594386	0.000525763	0.001035026	0.002807774	18.64306	17.37422	8.52786	16.78807
634787.8 634763.2	4254453.32 4254731.37	0.000652599 0.000719903	0.000594386 0.000239921	0.000525763 0.000693389	0.001035026 0.000480051	0.002807774 0.002133263	20.56574	17.37422 7.01303	8.52786 11.24674	16.78807 7.7864

624766.4	425 4700 26	0.000744650	0.00005.004	0.000745454	0.000540005	0.000400747	20 22225	7.50064	44 50074	0.27274
634766.4	4254708.36	0.000711652	0.00025691	0.000715151	0.000510035	0.002193747	20.33005	7.50961	11.59971	8.27274
634769.6	4254685.36	0.000701964	0.000275902	0.000734308	0.000541181	0.002253356	20.05328	8.06478	11.91045	8.77793
634772.9	4254662.35	0.000691089	0.000297216	0.0007532	0.000570408	0.002311913	19.7426	8.6878	12.21687	9.25199
634776.1	4254639.35	0.000679156	0.000321084	0.00077314	0.00060345	0.002376831	19.40173	9.38547	12.5403	9.78794
634779.3	4254616.34	0.00066626	0.000347682	0.000794147	0.000636433	0.002444522	19.03331	10.16293	12.88103	10.32292
634782.5	4254593.33	0.000654304	0.000377308	0.000812288	0.000675349	0.002519248	18.69175	11.02891	13.17527	10.95413
				0.000812288						
634785.8	4254570.33	0.000641572	0.000409008		0.000720605	0.002575669	18.32804	11.95554	13.04869	11.68818
634789	4254547.32	0.000627896	0.000441142	0.000742824	0.000767838	0.002579701	17.93736	12.89484	12.04857	12.4543
634792.2	4254524.32	0.000613136	0.000470926	0.000609847	0.000820175	0.002514084	17.5157	13.76543	9.89169	13.3032
634795.5	4254501.31	0.000597133	0.000495625	0.000446355	0.000877949	0.002417062	17.05852	14.4874	7.23986	14.24029
634798.7	4254478.31	0.000579921	0.000514633	0.000366786	0.000941838	0.002403179	16.56684	15.04302	5.94926	15.27657
634801.9	4254455.3	0.000561565	0.000529968	0.000470266	0.001011206	0.002573005	16.04245	15.49127	7.62769	16.40171
634777.3	4254733.35	0.000634801	0.000236215	0.000693459	0.000477958	0.002042432	18.1346	6.90469	11.24787	7.75245
634780.5	4254710.35	0.000627087	0.000252227	0.000715995	0.000507731	0.002103041	17.91425	7.37275	11.61341	8.23538
634783.8	4254687.34	0.000618374	0.000269977	0.000735847	0.000535675	0.002159873	17.66532	7.89158	11.9354	8.68863
634787	4254664.34	0.000608504	0.000289607	0.000752218	0.000566614	0.002216943	17.38337	8.46538	12.20094	9.19046
634790.2	4254641.33	0.000597667	0.000311235	0.0007651	0.00059667	0.002270672	17.0738	9.09756	12.40989	9.67796
634793.5	4254618.33	0.000586295	0.000334824	0.000773104	0.000629626	0.002323849	16.74893	9.78708	12.53972	10.2125
634796.7	4254595.32	0.000574972	0.000360171	0.000768618	0.000669104	0.002372865	16.42546	10.528	12.46695	10.85284
634799.9	4254572.31	0.000562986	0.000386242	0.000733154	0.00071046	0.002392841	16.08303	11.29007	11.89172	11.52363
634803.1	4254549.31	0.000550125	0.00041139	0.000648927	0.000755461	0.002365903	15.71565	12.02517	10.52556	12.25354
634806.4	4254526.3	0.000536337	0.000433648	0.000517503	0.000804474	0.002291961	15.32175	12.67576	8.39387	13.04853
634809.6	4254503.3	0.000521433	0.0004516	0.000385084	0.000858092	0.002216209	14.89598	13.20053	6.24604	13.91822
634812.8	4254480.29	0.000505665	0.000465712	0.000334112	0.000915308	0.002220798	14.44553	13.61302	5.41929	14.84626
634816.1	4254457.29	0.000488817	0.000477502	0.00042334	0.000981776	0.002371435	13.96422	13.95766	6.86655	15.92436
634826.8	4254740.3	0.000436053	0.000219552	0.000649618	0.000459857	0.00176508	12.4569	6.41764	10.53677	7.45886
634830.1	4254717.3	0.000429473	0.00023185	0.000656172	0.000483699	0.001801194	12.26892	6.7771	10.64308	7.84558
634833.3	4254694.29	0.000422398	0.000244933	0.000657176	0.000508313	0.00183282	12.06682	7.15953	10.65936	8.24482
634836.5	4254671.28	0.000414894	0.000258688	0.000651441	0.000534387	0.00185941	11.85244	7.56158	10.56635	8.66773
634839.7	4254648.28	0.000406925	0.000272864	0.000635767	0.000563525	0.001879081	11.62478	7.97597	10.31212	9.14035
634843		0.000398328	0.000287039	0.000604982	0.000592067	0.001882416	11.37919	8.39032	9.81278	9.6033
634846.2	4254602.27	0.000389343	0.000300712	0.000555358	0.000622659	0.001868072	11.12252	8.78998	9.00788	10.0995
634849.4	4254579.26	0.000379796	0.000313219	0.000484763	0.000655358	0.001833137	10.84979	9.15558	7.86283	10.62988
634852.7	4254556.26	0.000369622	0.000324012	0.000400296	0.000688117	0.001782046	10.55914	9.47104	6.49278	11.16122
634855.9	4254533.25	0.00035875	0.000332885	0.000319005	0.00072572	0.001736359	10.24855	9.73041	5.17424	11.77114
		0.00033373								
634859.1	4254510.25		0.000340061	0.000264567	0.00076618	0.001718018	9.9189	9.94016	4.29127	12.4274
634862.3	4254487.24	0.000334977	0.000346048	0.000260146	0.000808433	0.001749604	9.56942	10.11519	4.21956	13.11274
634865.6	4254464.24	0.000321971	0.000351364	0.000314397	0.000852719	0.00184045	9.19786	10.27056	5.09951	13.83106
634876.3	4254747.25	0.000318874	0.000199684	0.000557077	0.000430208	0.001505843	9.10941	5.83687	9.03576	6.97795
634879.6	4254724.24	0.000313495	0.000208502	0.000551775	0.000449332	0.001523104	8.95573	6.09463	8.94976	7.28815
634882.8	4254701.24	0.00030776	0.00021742	0.000539135	0.000469216	0.00153353	8.79189	6.35532	8.74474	7.61066
634886	4254678.23	0.000301682	0.000226255	0.000517567	0.000491331	0.001536835	8.61827	6.61357	8.39492	7.96936
634889.3	4254655.23	0.000295232	0.000234749	0.000485172	0.000512329	0.001527483	8.43402	6.86184	7.86947	8.30996
634892.5	4254632.22	0.000288353	0.000242625	0.000441324	0.000535563	0.001507864	8.23749	7.09205	7.15825	8.68681
634895.7	4254609.22	0.000281063	0.000249641	0.000388468	0.000559921	0.001479093	8.02923	7.29714	6.30094	9.08189
634898.9	4254586.21	0.000273498	0.000255727	0.000332739	0.000586593	0.001448557	7.81312	7.47503	5.39702	9.51452
634902.2	4254563.21	0.00026543	0.000260771	0.000279715	0.000613745	0.001419661	7.58263	7.62249	4.53697	9.95492
634905.4	4254540.2	0.000256941	0.000264935	0.000237968	0.000640189	0.001400033	7.34013	7.74421	3.85983	10.38384
634908.6	4254517.2	0.000248038	0.00026841	0.000215979	0.00066639	0.001398817	7.08581	7.84576	3.50317	10.80881
	4254494.19	0.000238737	0.000271414	0.000221	0.000690891	0.001333017				11.20622
634911.9							6.82009	7.93357	3.58461	
634915.1	4254471.18	0.000229069	0.000274149	0.00025513	0.000710969	0.001469317	6.5439	8.01352	4.1382	11.53189
634925.9	4254754.2	0.000241935	0.000179106	0.000460087	0.000394344	0.001275472	6.91144	5.23538	7.46259	6.39625
634929.1	4254731.19	0.000237553	0.000185055	0.000445323	0.00041027	0.0012782	6.78626	5.40925	7.22312	6.65456
634932.3	4254708.19	0.000233034	0.000190812	0.000425649	0.00042801	0.001277505	6.65717	5.57753	6.90401	6.94231
634935.5	4254685.18	0.000228091	0.000196167	0.000397677	0.000445181	0.001277303	6.51596	5.73406	6.4503	7.22082
634938.8	4254662.18	0.000222847	0.000201025	0.000363822	0.000462707	0.001250401	6.36615	5.87608	5.90118	7.50508
634942	4254639.17	0.000217332	0.000205318	0.000326219	0.000480498	0.001229367	6.2086	6.00156	5.29126	7.79366
634945.2	4254616.17	0.000211526	0.000208991	0.000287519	0.000497294	0.00120533	6.04276	6.10891	4.66355	8.06608
634948.5	4254593.16	0.000205451	0.000212069	0.000250933	0.000514373	0.001182825	5.86919	6.1989	4.07012	8.3431
634951.7	4254570.15	0.000199192	0.000214655	0.000220592	0.000530639	0.001165078	5.6904	6.27448	3.578	8.60694
634954.9	4254547.15	0.000192649	0.000216783	0.000198369	0.000544485	0.001152286	5.50347	6.3367	3.21753	8.83152
634958.1	4254524.14	0.000185904	0.000218571	0.000188793	0.000554307	0.001147575	5.31079	6.38896	3.06222	8.99083
634961.4	4254501.14	0.000179056	0.000220153	0.000194663	0.000559585	0.001153457	5.11515	6.4352	3.15743	9.07645
634964.6	4254478.13	0.000172175	0.000221625	0.000215944	0.00055936	0.001169104	4.9186	6.47822	3.5026	9.07279
634975.4	4254761.15	0.000188232	0.000159332	0.000366238	0.000357289	0.001071092	5.37731	4.65736	5.94037	5.79521
634978.6	4254738.14	0.000188232	0.000153332	0.000349839	0.000337203	0.001071032	5.27722	4.76977	5.67437	6.00793
634981.8	4254715.14	0.000180939	0.000166687	0.000328402	0.000382626	0.001058653	5.16895	4.87234	5.32667	6.20617
634985.1	4254692.13	0.000176923	0.000169824	0.00030376	0.000394497	0.001045005	5.05424	4.96405	4.92698	6.39872
634988.3	4254669.13	0.000172713	0.000172564	0.000277263	0.000405318	0.001027859	4.93396	5.04415	4.4972	6.57424
634991.5	4254646.12	0.000168318	0.000174906	0.000250272	0.000416107	0.001009603	4.8084	5.11261	4.0594	6.74923
634994.7	4254623.11	0.000163755	0.000174366	0.000230272	0.000415167	0.000990682	4.67804	5.16985	3.64085	6.90314
634998	4254600.11	0.000159048	0.000178477	0.000201583	0.000432939	0.000972047	4.54359	5.21699	3.26966	7.02225
635001.2	4254577.1	0.000154265	0.000179828	0.000183728	0.000439082	0.000956903	4.40696	5.25647	2.98006	7.12189
635004.4	4254554.1	0.0001494	0.000180944	0.000171655	0.000441569	0.000943568	4.26798	5.28908	2.78424	7.16223
635007.7	4254531.09	0.000144491	0.000181864	0.000167236	0.000440377	0.000933969	4.12773	5.316	2.71256	7.1429
635010.9	4254508.09	0.000111131	0.000182665	0.000171785	0.000435514	0.000939589	3.98873	5.33939	2.78634	7.06402
635014.1	4254485.08	0.000134868	0.000183393	0.00018496	0.000426844	0.000930065	3.85283	5.36069	3.00004	6.92339
635074.4	4254775.04	0.000120429	0.000125017	0.000230532	0.000278253	0.000754231	3.44033	3.65433	3.73922	4.51325
635077.6	4254752.04	0.000118019	0.000126433	0.000217392	0.000282838	0.000744682	3.37149	3.69572	3.52609	4.58762
635080.9	4254729.03	0.000115519	0.000127645	0.000203338	0.000286569	0.000733071	3.30009	3.73113	3.29813	4.64814
635084.1	4254706.03	0.000113313	0.000127643	0.000189169	0.000280303	0.000733071	3.22649	3.76053	3.06832	4.69044
635087.3	4254683.02	0.000110316	0.000129468	0.000175475	0.000290864	0.000706123	3.15145	3.78443	2.84619	4.7178
635090.5	4254660.02	0.00010766	0.000130112	0.000162813	0.000291227	0.000691812	3.07557	3.80325	2.64082	4.72369
635093.8	4254637.01	0.000104998	0.000130604	0.000151638	0.000289885	0.000677125	2.99951	3.81764	2.45956	4.70192
635097	4254614.01	0.000102355	0.000130965	0.000142356	0.000287303	0.00066298	2.92401	3.82819	2.30901	4.66005
635100.2	4254591	9.97627E-05	0.000130303	0.000142330	0.0002873037	0.000649368	2.84996	3.83563	2.19535	4.59085
000100.2	42J4JJI	J.J/UZ/L-UJ	0.00013177					2.02202	2.13333	T.JJU0J
625102 5	43E4EC0	0 72/125 05	0.000121270	0.000121022	0.0000777064	U U U U U U U U	2 77702	2 0 4020	2 42522	4 40724
635103.5	4254568	9.72413E-05	0.000131378	0.000131032	0.000277264	0.000636915	2.77793	3.84026	2.12533	4.49721

635106.7	4254544.99	9.48196E-05	0.000131466	0.000129791	0.000270175	0.000626251	2.70875	3.84281	2.10521	4.38222
635109.9	4254521.98	9.25195E-05	0.0001315	0.000131783	0.00026199	0.000617792	2.64304	3.84381	2.13751	4.24946
635113.1	4254498.98	9.03555E-05	0.00013149	0.000136757	0.000252874	0.000611477	2.58122	3.84354	2.21819	4.10161
635176.7	4254765.94	8.01449E-05	9.88955E-05	0.000142198	0.000205908	0.000527146	2.28953	2.89077	2.30644	3.33982
635179.9	4254742.93	7.85767E-05	9.92034E-05	0.000134242	0.000204883	0.000516905	2.24473	2.89977	2.1774	3.3232
635183.1	4254719.93	7.70193E-05	9.94097E-05	0.000126722	0.000203174	0.000506324	2.20024	2.9058	2.05542	3.29547
635186.3	4254696.92	7.54857E-05	9.9525E-05	0.000119815	0.000200717	0.000495543	2.15643	2.90917	1.9434	3.25562
635189.6	4254673.91	7.39896E-05	9.95581E-05	0.00011369	0.000197542	0.00048478	2.11369	2.91014	1.84405	3.20413
635192.8	4254650.91	7.25435E-05	9.95178E-05	0.00011303	0.000197542	0.00043478	2.07238	2.90896	1.75951	3.14117
635196	4254627.9	7.11584E-05	9.94141E-05	0.000104287	0.000189203	0.000464062	2.03281	2.90593	1.69153	3.06886
635199.3	4254604.9	6.98454E-05	9.92567E-05	0.000101225	0.000184151	0.000454478	1.9953	2.90133	1.64186	2.98692
635202.5	4254581.89	6.86058E-05	9.90501E-05	9.93739E-05	0.000178578	0.000445607	1.95989	2.89529	1.61184	2.89652
635205.7	4254558.89	6.74454E-05	9.88052E-05	9.87857E-05	0.00017263	0.000437666	1.92674	2.88813	1.6023	2.80005
635208.9	4254535.88	6.63638E-05	9.85298E-05	9.94374E-05	0.000166307	0.000430638	1.89584	2.88008	1.61287	2.69749
635212.2	4254512.88	6.53588E-05	9.82267E-05	0.000101196	0.000159819	0.0004246	1.86713	2.87122	1.64139	2.59226
635275.7	4254779.83	5.74225E-05	7.84898E-05	9.90255E-05	0.000149218	0.000384156	1.64041	2.2943	1.60619	2.42031
635278.9	4254756.83	5.65004E-05	7.84268E-05	9.44818E-05	0.000146815	0.000376224	1.61407	2.29246	1.53249	2.38133
635282.1	4254733.82	5.56148E-05	7.83088E-05	9.03295E-05	0.000144018	0.000368271	1.58877	2.28901	1.46514	2.33597
635285.4	4254710.82	5.47708E-05	7.81405E-05	8.66353E-05	0.000140872	0.000360419	1.56466	2.28409	1.40522	2.28494
635288.6	4254687.81	5.39717E-05	7.79267E-05	8.34441E-05	0.000137381	0.000352723	1.54183	2.27784	1.35346	2.22831
635291.8	4254664.81	5.32198E-05	7.76715E-05	8.07887E-05	0.000133565	0.000345245	1.52035	2.27038	1.31039	2.16642
635295.1	4254641.8	5.25155E-05	7.73793E-05	7.86846E-05	0.000133363	0.000338069	1.50023	2.26184	1.27626	2.10031
635298.3	4254618.8	5.18598E-05	7.70564E-05	7.71494E-05	0.000125485	0.000333003	1.4815	2.2524	1.25136	2.03043
635301.5	4254595.79	5.12486E-05	7.67036E-05	7.6179E-05	0.000120729	0.00032486	1.46404	2.24209	1.23562	1.95822
635304.7	4254572.78	5.06809E-05	7.6327E-05	7.57567E-05	0.000116189	0.000318953	1.44782	2.23108	1.22877	1.88458
635308	4254549.78	5.01551E-05	7.59291E-05	7.58442E-05	0.000111666	0.000313594	1.4328	2.21945	1.23019	1.81121
635311.2	4254526.77	4.96678E-05	7.55111E-05	7.63732E-05	0.000107271	0.000308823	1.41888	2.20723	1.23877	1.73993
635374.7	4254793.73	4.3145E-05	6.32113E-05	7.3089E-05	0.000110088	0.000289534	1.23254	1.8477	1.1855	1.78563
635377.9	4254770.73	4.26147E-05	6.29885E-05	7.04213E-05	0.000107559	0.000283583	1.21739	1.84119	1.14223	1.7446
635381.2	4254747.72	4.21197E-05	6.27323E-05	6.80335E-05	0.000104833	0.000277719	1.20325	1.8337	1.1035	1.70039
635384.4	4254724.71	4.16594E-05	6.24449E-05	6.59472E-05	0.000101931	0.000271982	1.1901	1.8253	1.06966	1.65331
635387.6	4254701.71	4.12334E-05	6.21288E-05	6.41709E-05	9.88807E-05	0.000266414	1.17793	1.81606	1.04085	1.60384
635390.9	4254678.7	4.08399E-05	6.17864E-05	6.27036E-05	9.57105E-05	0.00026104	1.16669	1.80605	1.01705	1.55242
635394.1	4254655.7	4.04783E-05	6.14213E-05	6.15464E-05	9.24762E-05	0.000255922	1.15636	1.79538	0.99828	1.49996
635397.3	4254632.69	4.01447E-05	6.10337E-05	6.06851E-05	8.92099E-05	0.000251073	1.14683	1.78405	0.98431	1.44698
635400.5	4254609.69	3.98384E-05	6.0627E-05	6.0105E-05	8.59595E-05	0.000231073	1.13808	1.77216	0.9749	1.39426
635403.8	4254586.68	3.95577E-05	6.02028E-05	5.97838E-05	8.2782E-05	0.00024033	1.13006	1.75976	0.96969	1.34272
635407	4254563.68	3.93001E-05	5.97628E-05	5.96925E-05	7.97197E-05	0.000238475	1.1227	1.7469	0.96821	1.29305
635410.2	4254540.67	3.90627E-05	5.93075E-05	5.97979E-05	7.6827E-05	0.000234995	1.11592	1.73359	0.96992	1.24613
634733.3	4254421.05	0.001438525	0.001249214	0.001974069	0.001195744	0.005857552	41.09491	36.51522	32.01931	19.39492
634735.3	4254397.48	0.001437213	0.001368737	0.001838047	0.001270637	0.005914634	41.05743	40.00894	29.81304	20.60968
634737.3	4254373.91	0.001413526	0.001456106	0.001449615	0.001328746	0.005647992	40.38074	42.56278	23.51269	21.5522
634739.4	4254350.34	0.00140543	0.001540672	0.001075275	0.001505241	0.005526618	40.14946	45.03471	17.44092	24.41494
634741.4	4254326.78	0.001379026	0.001594801	0.000785553	0.001621189	0.005380569	39.39519	46.61691	12.74163	26.29562
				0.0000000				44400	40.0040	20 40402
634743.4	4254303.21	0.001340781	0.00163336	0.000666105	0.001856036	0.005496283	38.30261	47.74402	10.8042	30.10483
634743.4 634745.4	4254303.21 4254279.64	0.001340781 0.001288228	0.00163336 0.001661978	0.000666105 0.00057804	0.001856036 0.001933465	0.005496283 0.00546171	38.30261 36.80132	47.74402 48.58053	10.8042 9.37578	30.10483 31.36071
634745.4 634747.5	4254279.64 4254256.07	0.001288228 0.001221269	0.001661978 0.001690713	0.00057804 0.000530318	0.001933465 0.002115292	0.00546171 0.005557592	36.80132 34.88848	48.58053 49.42048	9.37578 8.60174	31.36071 34.30994
634745.4 634747.5 634749.5	4254279.64 4254256.07 4254232.51	0.001288228 0.001221269 0.001125335	0.001661978 0.001690713 0.001716059	0.00057804 0.000530318 0.000503956	0.001933465 0.002115292 0.002344345	0.00546171 0.005557592 0.005689696	36.80132 34.88848 32.14789	48.58053 49.42048 50.16135	9.37578 8.60174 8.17415	31.36071 34.30994 38.02518
634745.4 634747.5 634749.5 634751.5	4254279.64 4254256.07 4254232.51 4254208.94	0.001288228 0.001221269 0.001125335 0.000985187	0.001661978 0.001690713 0.001716059 0.001737992	0.00057804 0.000530318 0.000503956 0.000473829	0.001933465 0.002115292 0.002344345 0.003108762	0.00546171 0.005557592 0.005689696 0.006305769	36.80132 34.88848 32.14789 28.14421	48.58053 49.42048 50.16135 50.80247	9.37578 8.60174 8.17415 7.68549	31.36071 34.30994 38.02518 50.42398
634745.4 634747.5 634749.5 634751.5 634753.5	4254279.64 4254256.07 4254232.51 4254208.94 4254185.37	0.001288228 0.001221269 0.001125335 0.000985187 0.000795311	0.001661978 0.001690713 0.001716059 0.001737992 0.001758283	0.00057804 0.000530318 0.000503956 0.000473829 0.000445345	0.001933465 0.002115292 0.002344345 0.003108762 0.004131396	0.00546171 0.005557592 0.005689696 0.006305769 0.007130335	36.80132 34.88848 32.14789 28.14421 22.71996	48.58053 49.42048 50.16135 50.80247 51.39559	9.37578 8.60174 8.17415 7.68549 7.22348	31.36071 34.30994 38.02518 50.42398 67.01106
634745.4 634747.5 634749.5 634751.5 634753.5 634755.6	4254279.64 4254256.07 4254232.51 4254208.94 4254185.37 4254161.8	0.001288228 0.001221269 0.001125335 0.000985187 0.000795311 0.000615954	0.001661978 0.001690713 0.001716059 0.001737992 0.001758283 0.001780026	0.00057804 0.000530318 0.000503956 0.000473829 0.000445345 0.000466634	0.001933465 0.002115292 0.002344345 0.003108762 0.004131396 0.003093326	0.00546171 0.005557592 0.005689696 0.006305769 0.007130335 0.00595594	36.80132 34.88848 32.14789 28.14421 22.71996 17.59619	48.58053 49.42048 50.16135 50.80247 51.39559 52.03114	9.37578 8.60174 8.17415 7.68549 7.22348 7.56878	31.36071 34.30994 38.02518 50.42398 67.01106 50.17362
634745.4 634747.5 634749.5 634751.5 634753.5 634755.6 634747.5	4254279.64 4254256.07 4254232.51 4254208.94 4254185.37 4254161.8 4254422.27	0.001288228 0.001221269 0.001125335 0.000985187 0.000795311 0.000615954 0.001128583	0.001661978 0.001690713 0.001716059 0.001737992 0.001758283 0.001780026 0.001002963	0.00057804 0.000530318 0.000503956 0.000473829 0.000445345 0.000466634 0.001815356	0.001933465 0.002115292 0.002344345 0.003108762 0.004131396 0.003093326 0.001138663	0.00546171 0.005557592 0.005689696 0.006305769 0.007130335 0.00595594	36.80132 34.88848 32.14789 28.14421 22.71996 17.59619 32.24066	48.58053 49.42048 50.16135 50.80247 51.39559 52.03114 29.31716	9.37578 8.60174 8.17415 7.68549 7.22348 7.56878 29.44499	31.36071 34.30994 38.02518 50.42398 67.01106 50.17362 18.46907
634745.4 634747.5 634749.5 634751.5 634753.5 634755.6 634747.5 634749.5	4254279.64 4254256.07 4254232.51 4254208.94 4254185.37 4254161.8 4254422.27 4254398.7	0.001288228 0.001221269 0.001125335 0.000985187 0.000795311 0.000615954 0.001128583 0.001119839	0.001661978 0.001690713 0.001716059 0.001737992 0.001758283 0.001780026 0.001002963 0.001077992	0.00057804 0.000530318 0.000503956 0.000473829 0.000445345 0.000466634 0.001815356 0.001818438	0.001933465 0.002115292 0.002344345 0.003108762 0.004131396 0.003093326 0.001138663 0.001242598	0.00546171 0.005557592 0.005689696 0.006305769 0.007130335 0.00595594 0.005085564 0.005258866	36.80132 34.88848 32.14789 28.14421 22.71996 17.59619 32.24066 31.99087	48.58053 49.42048 50.16135 50.80247 51.39559 52.03114 29.31716 31.5103	9.37578 8.60174 8.17415 7.68549 7.22348 7.56878 29.44499 29.49498	31.36071 34.30994 38.02518 50.42398 67.01106 50.17362 18.46907 20.15488
634745.4 634747.5 634749.5 634751.5 634753.5 634755.6 634747.5 634749.5 634751.6	4254279.64 4254256.07 4254232.51 4254208.94 4254185.37 4254161.8 4254422.27 4254398.7 4254375.13	0.001288228 0.001221269 0.001125335 0.000985187 0.000795311 0.000615954 0.001128583 0.001119839 0.00109885	0.001661978 0.001690713 0.001716059 0.001737992 0.001758283 0.001780026 0.001002963 0.001077992 0.001142784	0.00057804 0.000530318 0.000503956 0.000473829 0.000445345 0.000466634 0.001815356 0.001818438 0.001476071	0.001933465 0.002115292 0.002344345 0.003108762 0.004131396 0.003093326 0.001138663 0.001242598 0.001284203	0.00546171 0.005557592 0.005689696 0.006305769 0.007130335 0.00595594 0.005085564 0.005258866 0.005001906	36.80132 34.88848 32.14789 28.14421 22.71996 17.59619 32.24066 31.99087 31.39127	48.58053 49.42048 50.16135 50.80247 51.39559 52.03114 29.31716 31.5103 33.4042	9.37578 8.60174 8.17415 7.68549 7.22348 7.56878 29.44499 29.49498 23.9418	31.36071 34.30994 38.02518 50.42398 67.01106 50.17362 18.46907 20.15488 20.82971
634745.4 634747.5 634749.5 634751.5 634753.5 634747.5 634749.5 634751.6 634753.6	4254279.64 4254256.07 4254232.51 4254208.94 4254185.37 4254161.8 4254422.27 4254398.7 4254375.13 4254351.57	0.001288228 0.001221269 0.001125335 0.000985187 0.000795311 0.000615954 0.001128583 0.001119839 0.00109885 0.001079464	0.001661978 0.001690713 0.001716059 0.001737992 0.001758283 0.001780026 0.001002963 0.001077992 0.001142784 0.001204299	0.00057804 0.000530318 0.000503956 0.000473829 0.000445345 0.000466634 0.001815356 0.001818438 0.001476071 0.001277717	0.001933465 0.002115292 0.002344345 0.003108762 0.004131396 0.003093326 0.001138663 0.001242598 0.001284203 0.001394106	0.00546171 0.005557592 0.005689696 0.006305769 0.007130335 0.00595594 0.005085564 0.005258866 0.005001906 0.004955586	36.80132 34.88848 32.14789 28.14421 22.71996 17.59619 32.24066 31.99087 31.39127 30.83746	48.58053 49.42048 50.16135 50.80247 51.39559 52.03114 29.31716 31.5103 33.4042 35.20234	9.37578 8.60174 8.17415 7.68549 7.22348 7.56878 29.44499 29.49498 23.9418 20.72452	31.36071 34.30994 38.02518 50.42398 67.01106 50.17362 18.46907 20.15488 20.82971 22.61234
634745.4 634747.5 634749.5 634751.5 634755.6 634747.5 634749.5 634751.6 634753.6 634755.6	4254279.64 4254256.07 4254232.51 4254208.94 4254185.37 4254161.8 4254422.27 4254398.7 4254375.13 4254351.57 4254328	0.001288228 0.001221269 0.001125335 0.000985187 0.000795311 0.000615954 0.001128583 0.001119839 0.00109885 0.001079464 0.001048799	0.001661978 0.001690713 0.001716059 0.001737992 0.001758283 0.001780026 0.001002963 0.001077992 0.001142784 0.001204299 0.001249513	0.00057804 0.000530318 0.000503956 0.000473829 0.000445345 0.000466634 0.001815356 0.001818438 0.001476071 0.001277717 0.001090698	0.001933465 0.002115292 0.002344345 0.003108762 0.004131396 0.003093326 0.001138663 0.001242598 0.001284203 0.001394106 0.001551336	0.00546171 0.005557592 0.005689696 0.006305769 0.007130335 0.00595594 0.005085564 0.005258866 0.005001906 0.004955586 0.004940346	36.80132 34.88848 32.14789 28.14421 22.71996 17.59619 32.24066 31.99087 31.39127 30.83746 29.96144	48.58053 49.42048 50.16135 50.80247 51.39559 52.03114 29.31716 31.5103 33.4042 35.20234 36.52397	9.37578 8.60174 8.17415 7.68549 7.22348 7.56878 29.44499 29.49498 23.9418 20.72452 17.69107	31.36071 34.30994 38.02518 50.42398 67.01106 50.17362 18.46907 20.15488 20.82971 22.61234 25.16261
634745.4 634747.5 634749.5 634751.5 634753.5 634755.6 634747.5 634749.5 634753.6 634755.6 634757.6	4254279.64 4254256.07 4254232.51 4254208.94 4254185.37 4254161.8 4254422.27 4254398.7 4254375.13 4254351.57 4254328 4254304.43	0.001288228 0.001221269 0.001125335 0.000985187 0.000795311 0.000615954 0.001128583 0.001119839 0.00109885 0.001079464 0.001048799 0.001007742	0.001661978 0.001690713 0.001716059 0.001737992 0.001758283 0.001780026 0.001002963 0.001077992 0.001142784 0.001204299 0.001249513 0.001282694	0.00057804 0.000530318 0.000503956 0.000473829 0.000445345 0.000466634 0.001815356 0.001876071 0.001277717 0.001090698 0.000818002	0.001933465 0.002115292 0.002344345 0.003108762 0.004131396 0.003093326 0.001138663 0.001242598 0.001284203 0.001394106 0.001551336 0.001694233	0.00546171 0.005557592 0.005689696 0.006305769 0.007130335 0.00595594 0.005085564 0.005258866 0.005001906 0.004955586 0.004940346 0.004802671	36.80132 34.88848 32.14789 28.14421 22.71996 17.59619 32.24066 31.99087 31.39127 30.83746 29.96144 28.78857	48.58053 49.42048 50.16135 50.80247 51.39559 52.03114 29.31716 31.5103 33.4042 35.20234 36.52397 37.49385	9.37578 8.60174 8.17415 7.68549 7.22348 7.56878 29.44499 29.49498 23.9418 20.72452 17.69107 13.26796	31.36071 34.30994 38.02518 50.42398 67.01106 50.17362 18.46907 20.15488 20.82971 22.61234 25.16261 27.48039
634745.4 634747.5 634749.5 634753.5 634755.6 634747.5 634749.5 634751.6 634755.6 634757.6 634757.6	4254279.64 4254256.07 4254232.51 4254208.94 4254185.37 4254161.8 4254422.27 4254398.7 4254375.13 4254351.57 4254328 4254304.43 4254280.86	0.001288228 0.001221269 0.001125335 0.000985187 0.000795311 0.000615954 0.001128583 0.001119839 0.00109885 0.001079464 0.001048799 0.001007742 0.000957791	0.001661978 0.001690713 0.001716059 0.001737992 0.001758283 0.001780026 0.001002963 0.001077992 0.001142784 0.001204299 0.001249513 0.001282694 0.001311385	0.00057804 0.000530318 0.000503956 0.000473829 0.000445345 0.000466634 0.001815356 0.001818438 0.001476071 0.001277717 0.001090698 0.000818002 0.000656118	0.001933465 0.002115292 0.002344345 0.003108762 0.004131396 0.003093326 0.001138663 0.001242598 0.001284203 0.001394106 0.001551336 0.001694233 0.001846826	0.00546171 0.005557592 0.005689696 0.006305769 0.007130335 0.00595594 0.005085564 0.005258866 0.005001906 0.004955586 0.004940346 0.004802671 0.004772119	36.80132 34.88848 32.14789 28.14421 22.71996 17.59619 32.24066 31.99087 31.39127 30.83746 29.96144 28.78857 27.36159	48.58053 49.42048 50.16135 50.80247 51.39559 52.03114 29.31716 31.5103 33.4042 35.20234 36.52397 37.49385 38.33252	9.37578 8.60174 8.17415 7.68549 7.22348 7.56878 29.44499 29.49498 23.9418 20.72452 17.69107 13.26796 10.6422	31.36071 34.30994 38.02518 50.42398 67.01106 50.17362 18.46907 20.15488 20.82971 22.61234 25.16261 27.48039 29.95543
634745.4 634747.5 634749.5 634751.5 634753.5 634755.6 634747.5 634751.6 634753.6 634755.6 634757.6 634757.6 634759.7 634761.7	4254279.64 4254256.07 4254232.51 4254208.94 4254185.37 4254161.8 4254422.27 4254398.7 4254375.13 4254351.57 4254328 4254304.43 4254280.86 4254257.3	0.001288228 0.001221269 0.001125335 0.000985187 0.000795311 0.000615954 0.001128583 0.001119839 0.00109885 0.001079464 0.001048799 0.001007742 0.000957791 0.000893496	0.001661978 0.001690713 0.001716059 0.001737992 0.001758283 0.001780026 0.001002963 0.001077992 0.001142784 0.001204299 0.001249513 0.001282694 0.001311385 0.001336505	0.00057804 0.000530318 0.000503956 0.000473829 0.000445345 0.000466634 0.001815356 0.001818438 0.001476071 0.001277717 0.001090698 0.000818002 0.000656118 0.000562797	0.001933465 0.002115292 0.002344345 0.003108762 0.004131396 0.003093326 0.001138663 0.001242598 0.001284203 0.001284203 0.001394106 0.001551336 0.001694233 0.001846826 0.002235082	0.00546171 0.005557592 0.005689696 0.006305769 0.007130335 0.00595594 0.005085564 0.005258866 0.005001906 0.004955586 0.004940346 0.004802671 0.004772119 0.00502788	36.80132 34.88848 32.14789 28.14421 22.71996 17.59619 32.24066 31.99087 31.39127 30.83746 29.96144 28.78857 27.36159 25.52485	48.58053 49.42048 50.16135 50.80247 51.39559 52.03114 29.31716 31.5103 33.4042 35.20234 36.52397 37.49385 38.33252 39.06677	9.37578 8.60174 8.17415 7.68549 7.22348 7.56878 29.44499 29.49498 23.9418 20.72452 17.69107 13.26796 10.6422 9.12854	31.36071 34.30994 38.02518 50.42398 67.01106 50.17362 18.46907 20.15488 20.82971 22.61234 25.16261 27.48039 29.95543 36.25294
634745.4 634747.5 634749.5 634753.5 634755.6 634747.5 634749.5 634751.6 634755.6 634757.6 634759.7 634763.7	4254279.64 4254256.07 4254232.51 4254208.94 4254185.37 4254161.8 4254422.27 4254398.7 4254375.13 4254351.57 4254328 4254304.43 4254280.86 4254257.3 4254233.73	0.001288228 0.001221269 0.001125335 0.000985187 0.000795311 0.000615954 0.001128583 0.001119839 0.00109885 0.001079464 0.001048799 0.001007742 0.000957791 0.000893496 0.000808216	0.001661978 0.001690713 0.001716059 0.001737992 0.001758283 0.001780026 0.001002963 0.001077992 0.001142784 0.001204299 0.001249513 0.001282694 0.001311385 0.001336505 0.00135787	0.00057804 0.000530318 0.000503956 0.000473829 0.000445345 0.000466634 0.001815356 0.001877717 0.001277717 0.001090698 0.000818002 0.000656118 0.000562797 0.000502516	0.001933465 0.002115292 0.002344345 0.003108762 0.004131396 0.003093326 0.001138663 0.001242598 0.001284203 0.001394106 0.001551336 0.001694233 0.001846826 0.002235082 0.002620207	0.00546171 0.005557592 0.005689696 0.006305769 0.007130335 0.00595594 0.005085564 0.005258866 0.005001906 0.004955586 0.004940346 0.004802671 0.004772119 0.00502788 0.005288808	36.80132 34.88848 32.14789 28.14421 22.71996 17.59619 32.24066 31.99087 31.39127 30.83746 29.96144 28.78857 27.36159 25.52485 23.08863	48.58053 49.42048 50.16135 50.80247 51.39559 52.03114 29.31716 31.5103 33.4042 35.20234 36.52397 37.49385 38.33252 39.06677 39.69129	9.37578 8.60174 8.17415 7.68549 7.22348 7.56878 29.44499 29.49498 23.9418 20.72452 17.69107 13.26796 10.6422 9.12854 8.15078	31.36071 34.30994 38.02518 50.42398 67.01106 50.17362 18.46907 20.15488 20.82971 22.61234 25.16261 27.48039 29.95543 36.25294 42.49964
634745.4 634747.5 634749.5 634751.5 634753.5 634755.6 634747.5 634751.6 634753.6 634755.6 634757.6 634757.6 634759.7 634761.7	4254279.64 4254256.07 4254232.51 4254208.94 4254185.37 4254161.8 4254422.27 4254398.7 4254375.13 4254351.57 4254328 4254304.43 4254280.86 4254257.3	0.001288228 0.001221269 0.001125335 0.000985187 0.000795311 0.000615954 0.001128583 0.001119839 0.00109885 0.001079464 0.001048799 0.001007742 0.000957791 0.000893496	0.001661978 0.001690713 0.001716059 0.001737992 0.001758283 0.001780026 0.001002963 0.001077992 0.001142784 0.001204299 0.001249513 0.001282694 0.001311385 0.001336505 0.00135787 0.001375301	0.00057804 0.000530318 0.000503956 0.000473829 0.000445345 0.001815356 0.001818438 0.001476071 0.001277717 0.001090698 0.000818002 0.000656118 0.000562797 0.000502516 0.000473528	0.001933465 0.002115292 0.002344345 0.003108762 0.004131396 0.003093326 0.001138663 0.001242598 0.001284203 0.001284203 0.001394106 0.001551336 0.001694233 0.001846826 0.002235082	0.00546171 0.005557592 0.005689696 0.006305769 0.007130335 0.00595594 0.005085564 0.005258866 0.005001906 0.004955586 0.004940346 0.004802671 0.004772119 0.00502788 0.005288808 0.006062713	36.80132 34.88848 32.14789 28.14421 22.71996 17.59619 32.24066 31.99087 31.39127 30.83746 29.96144 28.78857 27.36159 25.52485	48.58053 49.42048 50.16135 50.80247 51.39559 52.03114 29.31716 31.5103 33.4042 35.20234 36.52397 37.49385 38.33252 39.06677	9.37578 8.60174 8.17415 7.68549 7.22348 7.56878 29.44499 29.49498 23.9418 20.72452 17.69107 13.26796 10.6422 9.12854 8.15078 7.6806	31.36071 34.30994 38.02518 50.42398 67.01106 50.17362 18.46907 20.15488 20.82971 22.61234 25.16261 27.48039 29.95543 36.25294 42.49964 57.00784
634745.4 634747.5 634749.5 634751.5 634753.5 634755.6 634747.5 634749.5 634753.6 634755.6 634757.6 634757.6 634763.7 634763.7 634765.7	4254279.64 4254256.07 4254232.51 4254208.94 4254185.37 4254161.8 4254422.27 4254375.13 4254375.13 4254351.57 4254328 4254304.43 4254280.86 4254257.3 4254233.73 4254210.16 4254186.59	0.001288228 0.001221269 0.001125335 0.000985187 0.000795311 0.000615954 0.001128583 0.001119839 0.00109885 0.001079464 0.001048799 0.001007742 0.000957791 0.000893496 0.000898216 0.000699212 0.000581086	0.001661978 0.001690713 0.001716059 0.001737992 0.001758283 0.001780026 0.001002963 0.001077992 0.001142784 0.001204299 0.001249513 0.001282694 0.001311385 0.001336505 0.001375301 0.001391037	0.00057804 0.000530318 0.000503956 0.000473829 0.000445345 0.000466634 0.001815356 0.001818438 0.001476071 0.001277717 0.001090698 0.000818002 0.000656118 0.000562797 0.000502516 0.000473528 0.000436239	0.001933465 0.002115292 0.002344345 0.003108762 0.004131396 0.003093326 0.001138663 0.001242598 0.001284203 0.001394106 0.001551336 0.001694233 0.001694233 0.001846826 0.002235082 0.002620207 0.003514673 0.004189552	0.00546171 0.005557592 0.005689696 0.006305769 0.007130335 0.00595594 0.005085564 0.005258866 0.005001906 0.004955586 0.004940346 0.004802671 0.004772119 0.00502788 0.005288808 0.006062713 0.006597914	36.80132 34.88848 32.14789 28.14421 22.71996 17.59619 32.24066 31.99087 31.39127 30.83746 29.96144 28.78857 27.36159 25.52485 23.08863 19.97465 16.60011	48.58053 49.42048 50.16135 50.80247 51.39559 52.03114 29.31716 31.5103 33.4042 35.20234 36.52397 37.49385 38.33252 39.06677 39.69129 40.20081 40.66079	9.37578 8.60174 8.17415 7.68549 7.22348 7.56878 29.44499 29.49498 23.9418 20.72452 17.69107 13.26796 10.6422 9.12854 8.15078 7.6806 7.07577	31.36071 34.30994 38.02518 50.42398 67.01106 50.17362 18.46907 20.15488 20.82971 22.61234 25.16261 27.48039 29.95543 36.25294 42.49964 57.00784 67.95435
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634745.4 634747.5 634747.5 634753.5 634753.6 634755.6 634753.6 634753.6 634755.6 634757.6 634759.7 634763.7 634765.7 634765.7 634765.8 634765.8 634765.8 634765.8 634767.8 634767.8 634767.8 634767.8 634767.8 634765.9 634778.9 634778.9 634778.9 634778.9 634778.9 634778.9 634778.9 634778.9 634778.9 634788.1 634780.1 634788.1 634788.1 634788.1 634788.1 634788.1 634788.1 634790.2 634792.2 634794.2	4254279.64 4254256.07 4254232.51 4254208.94 4254185.37 4254161.8 4254422.27 4254398.7 4254375.13 4254351.57 4254328 4254304.43 4254280.86 4254257.3 4254233.73 4254210.16 4254186.59 4254163.03 425423.49 4254399.93 4254399.93 4254352.79 4254352.79 4254352.79 4254305.66 4254282.09 4254282.09 4254282.09 4254282.09 4254282.09 4254282.09 4254259.79 4254305.66 4254282.09 4254282.09 4254258.52 4254234.95 4254234.95 4254234.95 4254236.88 4254306.88 4254283.31 4254259.74 4254236.18 4254236.18	0.001288228 0.001221269 0.001125335 0.000985187 0.000795311 0.000615954 0.001128583 0.001119839 0.00109885 0.001079464 0.001048799 0.001007742 0.000957791 0.000893496 0.000699212 0.000581086 0.000486278 0.000913523 0.00091198 0.000857792 0.000857792 0.000857792 0.000857792 0.000857792 0.000857792 0.000857792 0.000857792 0.000857792 0.000857792 0.000857792 0.000738676 0.000680825 0.000610145 0.000756262 0.000742154 0.000756262 0.000742154 0.00069812 0.000688259 0.000630587 0.000587689 0.000538303 0.00048233 0.000426833	0.001661978 0.001690713 0.001716059 0.001737992 0.001758283 0.001780026 0.001002963 0.001077992 0.001142784 0.001204299 0.001249513 0.001282694 0.001311385 0.00135787 0.001375301 0.001375301 0.001391037 0.001407456 0.000836121 0.000887104 0.000934424 0.000979603 0.001016327 0.001044285 0.001070667 0.001093103 0.001111479 0.001126951 0.001126951 0.001754961 0.000752034 0.000752034 0.000786881 0.000820659 0.000874898 0.000874898 0.000874898 0.000933409 0.000947672	0.00057804 0.000530318 0.000503956 0.000473829 0.000445345 0.000466634 0.001815356 0.001818438 0.001476071 0.001277717 0.001090698 0.000656118 0.000562797 0.000502516 0.000473528 0.000436239 0.000436239 0.000491384 0.001458819 0.001458819 0.001458819 0.001255976 0.001104727 0.000866439 0.000676002 0.000618327 0.000545722 0.000476321 0.000545722 0.000476321 0.000545702 0.00015255976 0.001152052 0.001152052 0.001152052 0.001120177 0.000986844 0.000868806 0.000742608 0.000544659 0.000544659 0.000544659 0.000544659	0.001933465 0.002115292 0.002344345 0.003108762 0.004131396 0.003093326 0.001138663 0.001242598 0.001284203 0.001394106 0.001551336 0.001694233 0.001846826 0.002235082 0.002620207 0.003514673 0.004189552 0.002132081 0.001341944 0.001193016 0.00121577 0.001344925 0.001636327 0.001458842 0.001636327 0.001792481 0.002152706 0.002738827 0.001792481 0.002152706 0.002738827 0.00150906 0.001402911 0.001200779 0.001236092 0.001347142 0.001395123 0.001482678 0.001657829 0.002424437 0.002472525	0.00546171 0.005557592 0.005689696 0.006305769 0.007130335 0.00595594 0.005085564 0.005258866 0.005001906 0.004955586 0.004940346 0.004772119 0.00502788 0.0052788 0.00528808 0.006062713 0.006597914 0.004517198 0.004550407 0.004385048 0.004404242 0.004438296 0.004406186 0.00433242 0.004277826 0.00457826 0.00454496 0.005006173 0.00506173 0.00506173 0.005453889 0.004616905 0.0039084 0.0039084 0.0039084 0.003885428 0.00411979 0.004384835 0.004344051	36.80132 34.88848 32.14789 28.14421 22.71996 17.59619 32.24066 31.99087 31.39127 30.83746 29.96144 28.78857 27.36159 25.52485 23.08863 19.97465 16.60011 13.8917 26.09696 25.74488 25.16853 24.50488 23.60494 22.43596 21.10205 19.44939 17.43025 15.17843 13.09281 11.47127 21.60444 21.2014 20.62863 19.94347 19.09041 18.01422 16.78873 15.3779 13.77892 12.1935	48.58053 49.42048 50.16135 50.80247 51.39559 52.03114 29.31716 31.5103 33.4042 35.20234 36.52397 37.49385 38.33252 39.06677 39.69129 40.20081 40.66079 41.14071 24.44028 25.93053 27.31373 28.63433 29.70781 30.52502 31.2962 31.95202 32.48915 32.94141 33.35941 33.35941 33.35941 33.35941 33.35941 33.35941 33.35941 33.35941 33.35941 33.35941 33.35941 33.35941 33.35941 33.35941 33.35941 33.35941 33.76015 20.91327 21.98238 23.00097 23.98832 24.8639 25.57375 26.22864 26.8165 27.28407 27.70099	9.37578 8.60174 8.17415 7.68549 7.22348 7.56878 29.44499 29.49498 23.9418 20.72452 17.69107 13.26796 10.6422 9.12854 8.15078 7.6806 7.07577 7.97022 23.66198 22.76846 22.27042 20.37187 17.91863 14.05361 10.96472 10.02923 8.85158 7.72591 7.38111 8.87061 18.68623 22.17441 19.7096 18.16922 16.00657 14.092 12.04507 10.51811 8.83434 8.06166	31.36071 34.30994 38.02518 50.42398 67.01106 50.17362 18.46907 20.15488 20.82971 22.61234 25.16261 27.48039 29.95543 36.25294 42.49964 57.00784 67.95435 34.58226 21.76628 19.35066 19.71973 21.81463 23.66235 26.54115 29.07396 34.91679 44.42366 53.83885 41.56002 24.47688 22.75516 19.47658 20.04936 21.85059 22.62884 24.04898 26.88992 32.69305 39.32426 40.10424
634745.4 634747.5 634747.5 634751.5 634753.5 634755.6 634747.5 634749.5 634753.6 634755.6 634757.6 634757.6 634761.7 634763.7 634765.7 634765.7 634765.8 634765.8 634765.8 634767.8 634767.8 634775.9 634775.9 634775.9 634775.9 634775.9 634775.9 634775.9 634775.9 634775.9 634775.9 634775.9 634775.9 634775.9 634775.9 634778.0 634782.1 634784.1 634784.1 634786.1 634786.1 634786.1 634786.1 634790.2 634792.2	4254279.64 4254256.07 4254232.51 4254208.94 4254185.37 4254161.8 4254422.27 4254398.7 4254351.57 4254328 4254304.43 4254280.86 4254257.3 4254233.73 4254210.16 4254186.59 4254163.03 425423.49 4254399.93 4254376.36 4254352.79 425436.36 4254282.09 4254282.09 4254282.09 4254282.09 4254282.09 4254258.52 4254234.95 4254211.39 4254282.09 4254258.52 4254234.95 4254234.95 4254234.95 425436.88 4254306.88 4254330.45 4254330.45 4254330.45 4254330.45 4254330.45 4254330.45	0.001288228 0.001221269 0.001125335 0.000985187 0.000795311 0.000615954 0.001128583 0.001119839 0.00109885 0.001079464 0.001048799 0.001007742 0.000957791 0.000893496 0.00088216 0.000699212 0.000581086 0.000486278 0.000913523 0.00091198 0.000881023 0.000857792 0.00082629 0.00078537 0.000738676 0.000680825 0.000610145 0.000756262 0.000742154 0.000756262 0.000742154 0.00068825 0.000680825 0.00069812 0.00068825 0.00069812 0.00068825 0.000630587 0.000538303 0.00048233	0.001661978 0.001690713 0.001716059 0.001737992 0.001758283 0.001780026 0.001002963 0.001077992 0.001142784 0.001204299 0.001249513 0.001282694 0.001311385 0.00135787 0.001375301 0.001375301 0.001391037 0.001407456 0.000836121 0.000887104 0.000934424 0.000979603 0.001016327 0.001044285 0.001070667 0.001093103 0.001111479 0.001126951 0.001154961 0.000715459 0.000752034 0.000786881 0.000820659 0.000874898 0.000874898 0.000933409	0.00057804 0.000530318 0.000503956 0.000473829 0.000445345 0.000466634 0.001815356 0.001818438 0.001476071 0.001277717 0.001090698 0.000656118 0.000562797 0.000502516 0.000473528 0.000473528 0.000491384 0.001458819 0.001458819 0.001458819 0.001458819 0.001255976 0.0011255976 0.001104727 0.000866439 0.000676002 0.000618327 0.000545722 0.000476321 0.000545063 0.000546895 0.001152052 0.001152052 0.001367107 0.001215145 0.001120177 0.000986844 0.000868806 0.000742608 0.000648467 0.000544659	0.001933465 0.002115292 0.002344345 0.003108762 0.004131396 0.003093326 0.001138663 0.001242598 0.001284203 0.001394106 0.001551336 0.001694233 0.001846826 0.002235082 0.002620207 0.003514673 0.004189552 0.002132081 0.001341944 0.001193016 0.00121577 0.001344925 0.001458842 0.001636327 0.001458842 0.001636327 0.001792481 0.002152706 0.002738827 0.001792481 0.002152706 0.002738827 0.00150906 0.001402911 0.001200779 0.001347142 0.001395123 0.001482678 0.001657829 0.002424437	0.00546171 0.005557592 0.005689696 0.006305769 0.007130335 0.00595594 0.005085564 0.005258866 0.005001906 0.004955586 0.004940346 0.004802671 0.004772119 0.00502788 0.005288808 0.006062713 0.006597914 0.004517198 0.004517198 0.004550407 0.004385048 0.004404242 0.004438296 0.004406186 0.00433242 0.004277826 0.00457826 0.00454496 0.005006173 0.005453889 0.004616905 0.0039084 0.003960222 0.003986098 0.0039084 0.003856969 0.003885428 0.00411979 0.004384835	36.80132 34.88848 32.14789 28.14421 22.71996 17.59619 32.24066 31.99087 31.39127 30.83746 29.96144 28.78857 27.36159 25.52485 23.08863 19.97465 16.60011 13.8917 26.09696 25.74488 25.16853 24.50488 23.60494 22.43596 21.10205 19.44939 17.43025 15.17843 13.09281 11.47127 21.60444 21.2014 20.62863 19.94347 19.09041 18.01422 16.78873 15.3779 13.77892	48.58053 49.42048 50.16135 50.80247 51.39559 52.03114 29.31716 31.5103 33.4042 35.20234 36.52397 37.49385 38.33252 39.06677 39.69129 40.20081 40.66079 41.14071 24.44028 25.93053 27.31373 28.63433 29.70781 30.52502 31.2962 31.95202 32.48915 32.94141 33.35941 33.35941 33.35941 33.76015 20.91327 21.98238 23.00097 23.98832 24.8639 25.57375 26.22864 26.8165 27.28407	9.37578 8.60174 8.17415 7.68549 7.22348 7.56878 29.44499 29.49498 23.9418 20.72452 17.69107 13.26796 10.6422 9.12854 8.15078 7.6806 7.07577 7.97022 23.66198 22.76846 22.27042 20.37187 17.91863 14.05361 10.96472 10.02923 8.85158 7.72591 7.38111 8.87061 18.68623 22.17441 19.7096 18.16922 16.00657 14.092 12.04507 10.51811 8.83434	31.36071 34.30994 38.02518 50.42398 67.01106 50.17362 18.46907 20.15488 20.82971 22.61234 25.16261 27.48039 29.95543 36.25294 42.49964 57.00784 67.95435 34.58226 21.76628 19.35066 19.71973 21.81463 23.66235 26.54115 29.07396 34.91679 44.42366 53.83885 41.56002 24.47688 22.75516 19.47658 20.04936 21.85059 22.62884 24.04898 26.88992 32.69305 39.32426

634790.2	4254425.94	0.000637784	0.000624669	0.000937432	0.001375171	0.003575056	18.21982	18.25942	15.20511	22.30521
634792.2	4254402.37	0.000622429	0.00065159	0.001193486	0.001413547	0.003881051	17.78116	19.04633	19.35829	22.92767
634794.3	4254378.8	0.000602865	0.000677984	0.001030466	0.001210951	0.003522266	17.22229	19.81786	16.71411	19.64157
		0.000579544								
634796.3	4254355.24		0.000703816	0.000937557	0.001227574	0.00344849	16.55605	20.57293	15.20713	19.91119
634798.3	4254331.67	0.000551705	0.000727878	0.000902213	0.001305364	0.00348716	15.76077	21.27628	14.63386	21.17295
634800.3	4254308.1	0.000518298	0.00074886	0.000775201	0.001364903	0.003407261	14.80642	21.88959	12.57372	22.13866
634802.4	4254284.53	0.000480553	0.000767834	0.000721017	0.001545435	0.00351484	13.72815	22.44422	11.69487	25.06689
634804.4	4254260.97	0.00043991	0.000785671	0.00061655	0.00176443	0.00360656	12.56707	22.9656	10.00041	28.61898
634806.4	4254237.4	0.000397089	0.000800259	0.000579383	0.001957236	0.003733967	11.34381	23.39202	9.39756	31.74628
634808.4	4254213.83	0.00035779	0.000813255	0.000534341	0.001795972	0.003501358	10.22114	23.77189	8.66699	29.13058
634810.5	4254190.26	0.000325643	0.00082529	0.000683533	0.001455135	0.003289602	9.30277	24.12369	11.08688	23.60223
										14.24424
634812.5	4254166.7	0.000299054	0.000835937	0.000589693	0.000878192	0.002602876	8.5432	24.43489	9.56479	
634804.5	4254427.16	0.00054533	0.000553408	0.000792289	0.001271838	0.003162865	15.57867	16.17641	12.85089	20.62916
634806.5	4254403.6	0.000530003	0.000574114	0.001026984	0.001496633	0.003627733	15.14079	16.78167	16.65763	24.27532
634808.5	4254380.03	0.000511099	0.000594502	0.000880995	0.001287962	0.003274558	14.60077	17.37762	14.2897	20.89069
634810.5	4254356.46	0.000489171	0.000614749	0.000965774	0.001227842	0.003297535	13.97433	17.96945	15.66481	19.91554
634812.6	4254332.89	0.000463659	0.000634036	0.000835435	0.001323266	0.003256396	13.24554	18.53323	13.55072	21.46331
634814.6	4254309.33	0.00043467	0.000651989	0.000752	0.001274795	0.003113454	12.41738	19.05801	12.1974	20.67712
634816.6	4254285.76	0.000402562	0.000668164	0.000691632	0.00145843	0.003220788	11.50015	19.5308	11.21824	23.65567
634818.6	4254262.19	0.000369696	0.000683617	0.000670168	0.00143643	0.003220766	10.56125	19.9825	10.8701	26.31946
634820.7	4254238.62	0.000337371	0.000696866	0.000587992	0.001656517	0.003278747	9.6378	20.36979	9.53721	26.86864
634822.7	4254215.06	0.000308947	0.000708557	0.000612288	0.001317804	0.002947596	8.8258	20.71151	9.93129	21.37473
634824.7	4254191.49	0.000285833	0.000719554	0.000672756	0.001120732	0.002798876	8.16551	21.03297	10.91207	18.17823
634826.7	4254167.92	0.000265911	0.000729235	0.00052525	0.000733163	0.002253559	7.59639	21.31593	8.51954	11.89187
634818.7	4254428.39	0.000471891	0.00049609	0.000679629	0.001084115	0.002731724	13.48069	14.50099	11.02355	17.58429
634820.7	4254404.82	0.000456879	0.000512363	0.000834935	0.001322176	0.003126354	13.05185	14.97667	13.54261	21.44564
634822.7	4254381.25	0.000439187	0.000528623	0.00092151	0.001357361	0.003246682	12.54642	15.45195	14.94686	22.01634
634824.8	4254357.68	0.000418844	0.000544681	0.000860931	0.001201959	0.003026415	11.96527	15.92132	13.96426	19.49573
634826.8	4254334.12	0.000395957	0.000560333	0.000748667	0.001318335	0.003023292	11.31146	16.37885	12.14335	21.38333
634828.8	4254310.55	0.000371008	0.00057547	0.000780146	0.001281756	0.003008379	10.59872	16.82131	12.65393	20.79002
634830.8	4254286.98	0.00034418	0.000589159	0.000661338	0.00146217	0.003056846	9.83232	17.22144	10.72687	23.71633
634832.9	4254263.41	0.000317928	0.000602398	0.000677128	0.001395096	0.00299255	9.08238	17.60843	10.98298	22.6284
634834.9	4254239.85	0.000293592	0.000614388	0.000758065	0.001349475	0.003015519	8.38716	17.95889	12.29578	21.88842
634836.9	4254216.28	0.000272714	0.000625283	0.000662423	0.001172733	0.002733153	7.79072	18.27736	10.74448	19.02168
634838.9	4254192.71	0.000255102	0.000634793	0.000598997	0.000881186	0.002370078	7.28759	18.55534	9.71571	14.2928
634841	4254169.14	0.00023961	0.00064364	0.000493092	0.000625786	0.002002128	6.84503	18.81396	7.99793	10.15022
					0.000918483					
634868.5	4254432.67	0.000306581	0.000361367	0.000455276		0.002041707	8.75821	10.56295	7.38456	14.89776
634870.5	4254409.1	0.000294185	0.000369193	0.000541865	0.000958729	0.002163972	8.4041	10.79171	8.78903	15.55055
634872.6	4254385.53	0.00028094	0.00037721	0.000574467	0.000987804	0.00222042	8.02571	11.02607	9.31783	16.02213
634874.6	4254361.97	0.000267076	0.000385352	0.000581555	0.001038466	0.002272448	7.62967	11.26404	9.43279	16.84387
634876.6	4254338.4	0.000252896	0.000393507	0.000584608	0.001010524	0.002241535	7.22458	11.50244	9.48231	16.39065
634878.6	4254314.83	0.000238942	0.000401643	0.000563688	0.00099903	0.002203303	6.82596	11.74024	9.143	16.20422
634880.7	4254291.26	0.000225729	0.000409561	0.000560879	0.000900234	0.002096403	6.44848	11.97171	9.09743	14.60175
634882.7	4254267.7	0.000213877	0.000417305	0.000530505	0.000820153	0.001981839	6.1099	12.19805	8.60477	13.30284
	4254244.13	0.000213877					5.8145			11.62792
634884.7			0.000424746	0.000517514	0.00071689	0.001862686		12.41556	8.39406	
634886.7	4254220.56	0.000194498	0.000431724	0.000488257	0.000627574	0.001742053	5.55629	12.61954	7.9195	10.17923
634888.8	4254196.99	0.000186322	0.000438191	0.000467135	0.000532815	0.001624463	5.32273	12.80856	7.57691	8.64224
634890.8	4254173.43	0.000178355	0.000443813	0.000440155	0.000415871	0.001478194	5.09513	12.97289	7.1393	6.74541
634918.3	4254436.95	0.000216543	0.000280146	0.000346109	0.000734702	0.0015775	6.18608	8.18881	5.61387	11.91684
634920.3	4254413.38	0.000207827	0.000284549	0.000402413	0.000739158	0.001633947	5.93707	8.31752	6.52712	11.98911
634922.4	4254389.82	0.000199064	0.000289048	0.000428394	0.000730403	0.001646909	5.68674	8.44902	6.94853	11.84711
634924.4	4254366.25	0.000190433	0.000293585	0.000436625	0.000706335	0.001626978	5.44016	8.58166	7.08204	11.45672
634926.4	4254342.68	0.000130433	0.000293363	0.000430025	0.000766355	0.001520378	5.20497	8.7148	7.02949	10.83597
634928.4	4254319.11	0.000174634	0.000302734	0.000424895	0.000621306	0.001523569	4.98885	8.84907	6.89178	10.07756
634930.5	4254295.55	0.000167892	0.000307402	0.000416264	0.000573812	0.001465371	4.79625	8.98553	6.75179	9.30721
634932.5	4254271.98	0.000161836	0.000311924	0.000407705	0.000530736	0.001412201	4.62323	9.11771	6.61295	8.60852
634934.5	4254248.41	0.000156409	0.000316297	0.000399362	0.000487749	0.001359817	4.46821	9.24553	6.47763	7.91127
634936.5	4254224.84	0.000151449	0.000320528	0.000390035	0.000439179	0.001301191	4.3265	9.36922	6.32635	7.12346
634938.6	4254201.28	0.000146699	0.000324443	0.000378709	0.00038592	0.00123577	4.19081	9.48364	6.14264	6.2596
634940.6	4254177.71	0.000141996	0.000328155	0.000365481	0.000318342	0.001153973	4.05646	9.59214	5.92808	5.16349
634968.1	4254441.23	0.000162709	0.00022533	0.000275221	0.000550371	0.001213631	4.64817	6.58653	4.46407	8.927
634970.2	4254417.67	0.000157009	0.000227941	0.000313413	0.000536762	0.001235125	4.48533	6.66284	5.08355	8.70626
634970.2	4254394.1	0.000157009	0.000227941	0.000313413	0.000536762	0.001233123	4.46535	6.74031	5.42671	8.38821
634974.2	4254370.53	0.000146399	0.000233295	0.00034164	0.000492291	0.001213625	4.18225	6.81933	5.54138	7.98494
634976.2	4254346.96	0.000141667	0.000236003	0.000341238	0.000464723	0.001183631	4.04705	6.8985	5.53486	7.53779
634978.3	4254323.4	0.00013737	0.000238701	0.000336264	0.000437493	0.001149828	3.92431	6.97736	5.45418	7.09612
634980.3	4254299.83	0.000133496	0.000241379	0.000328831	0.000412346	0.001116051	3.81363	7.05564	5.33362	6.68823
634982.3	4254276.26	0.000129968	0.000244	0.000321364	0.00038798	0.001083312	3.71285	7.13226	5.21251	6.29302
634984.3	4254252.69	0.000126713	0.000246583	0.000314271	0.000362482	0.00105005	3.61985	7.20776	5.09747	5.87945
634986.4	4254229.13	0.000123618	0.000249065	0.00030797	0.00033429	0.001014943	3.53144	7.28032	4.99526	5.42217
634988.4	4254205.56	0.000120586	0.00025145	0.000301894	0.00030073	0.000974659	3.44483	7.35003	4.8967	4.87782
634990.4	4254181.99	0.000117535	0.000253717	0.000295358	0.000257991	0.000924603	3.35768	7.4163	4.7907	4.18461
635015.9	4254469.08	0.000131927	0.000184157	0.000198875	0.000419399	0.000934359	3.76881	5.38302	3.22575	6.80264
635017.9	4254445.52	0.000128128	0.0001857	0.000224803	0.000407337	0.000945968	3.66027	5.42812	3.64629	6.60699
635020	4254421.95	0.000124519	0.000187248	0.000249392	0.000392501	0.000953659	3.55717	5.47336	4.04512	6.36635
635022	4254398.38	0.00012115	0.000188814	0.000265351	0.000375481	0.000950795	3.46093	5.51913	4.30398	6.09028
635024	4254374.81	0.000118047	0.000190406	0.000271649	0.000357526	0.000937627	3.37229	5.56567	4.40613	5.79905
635026.1	4254351.25	0.000115204	0.000191995	0.000272548	0.000337320	0.000919845	3.29108	5.61213	4.42071	5.51638
	4254331.25									
635028.1		0.000112612	0.00019358	0.000269751	0.000324245	0.000900188	3.21702	5.65846	4.37535	5.25924
635030.1	4254304.11	0.000110223	0.000195131	0.000264835	0.000310123	0.000880312	3.14877	5.70379	4.29562	5.03018
	4254280.54	0.000107997	0.000196651	0.00025884	0.000295717	0.000859205	3.08519	5.74823	4.19838	4.79651
635032.1			0.000100115	0.00025315	0.000279954	0.000837097	3.02467	5.79101	4.10608	4.54084
635032.1 635034.2	4254256.98	0.000105878	0.000198115	0.00023313						
		0.000105878 0.000103817	0.000198115	0.000247996	0.00026206	0.000813395	2.96577	5.83215	4.02248	4.2506
635034.2	4254256.98				0.00026206 0.000240789	0.000813395 0.000786757	2.96577 2.90705	5.83215 5.87161	4.02248 3.94688	
635034.2 635036.2 635038.2	4254256.98 4254233.41 4254209.84	0.000103817	0.000199522 0.000200872	0.000247996 0.000243335	0.000240789	0.000786757	2.90705	5.87161	3.94688	4.2506 3.90558
635034.2 635036.2 635038.2 635040.2	4254256.98 4254233.41 4254209.84 4254186.27	0.000103817 0.000101761 9.96696E-05	0.000199522 0.000200872 0.000202138	0.000247996 0.000243335 0.000238877	0.000240789 0.000213651	0.000786757 0.000754335	2.90705 2.8473	5.87161 5.9086	3.94688 3.87457	4.2506 3.90558 3.46541
635034.2 635036.2 635038.2	4254256.98 4254233.41 4254209.84	0.000103817 0.000101761	0.000199522 0.000200872	0.000247996 0.000243335	0.000240789	0.000786757	2.90705	5.87161	3.94688	4.2506 3.90558

635119.6	4254430.51	8.56879E-05	0.000132623	0.000164701	0.000226522	0.000609535	2.44788	3.87665	2.67145	3.67418
635121.6	4254406.94	8.43626E-05	0.000133073	0.000172689	0.000217554	0.000607678	2.41002	3.8898	2.801	3.52872
635123.7	4254383.38	8.31399E-05	0.000133522	0.000176864	0.000209567	0.000603093	2.37509	3.90292	2.86872	3.39917
635125.7	4254359.81	8.1998E-05	0.000133961	0.000178147	0.000202575	0.000596681	2.34247	3.91576	2.88954	3.28575
635127.7	4254336.24	8.0922E-05	0.000134387	0.000177743	0.000196477	0.00058953	2.31173	3.92822	2.88299	3.18685
635129.7	4254312.67	7.98967E-05	0.000134796	0.000176166	0.000190459	0.000581318	2.28244	3.94016	2.85741	3.08923
635131.8	4254289.11	7.89004E-05	0.000135171	0.000173528	0.000184238	0.000571837	2.25398	3.95112	2.81462	2.98833
635133.8	4254265.54	7.79189E-05	0.000135516	0.000170397	0.000177541	0.000561373	2.22594	3.96122	2.76384	2.8797
635135.8	4254241.97	7.69272E-05	0.000135818	0.000167473	0.000170373	0.000550591	2.19761	3.97003	2.7164	2.76344
635137.8	4254218.4	7.59156E-05	0.00013608	0.000164668	0.000161495	0.000538158	2.16871	3.97769	2.67091	2.61944
635139.9	4254194.84	7.48717E-05	0.000136289	0.000162273	0.000151214	0.000524648	2.13889	3.98381	2.63206	2.45268
635213.7	4254499.54	6.48799E-05	9.81384E-05	0.000102273	0.000151214	0.000324046	1.85345	2.86864	1.66624	2.53501
635215.7	4254486.21	6.44245E-05	9.80453E-05	0.000102728	0.00015025	0.000422030	1.84044	2.86592	1.69456	2.47834
					0.000132730	0.000419739				2.38777
635217.2	4254462.64	6.37811E-05	9.80378E-05	0.000108772			1.82206	2.8657	1.76428	
635219.2	4254439.08	6.31892E-05	9.802E-05	0.000113078	0.000142036	0.000416323	1.80515	2.86518	1.83412	2.30381
635221.3	4254415.51	6.26364E-05	9.79882E-05	0.000116401	0.000137394	0.00041442	1.78936	2.86425	1.88802	2.22853
635223.3	4254391.94	6.21177E-05	9.79455E-05	0.000118928	0.000133487	0.000412478	1.77454	2.863	1.92901	2.16515
635225.3	4254368.37	6.16262E-05	9.78952E-05	0.000119988	0.000130166	0.000409676	1.7605	2.86153	1.9462	2.11129
635227.3	4254344.81	6.11505E-05	9.78295E-05	0.000120254	0.000127035	0.000406269	1.74691	2.85961	1.95051	2.0605
635229.4	4254321.24	6.06856E-05	9.77504E-05	0.000119854	0.000124166	0.000402456	1.73363	2.8573	1.94403	2.01396
635231.4	4254297.67	6.02208E-05	9.76471E-05	0.00011909	0.000121342	0.0003983	1.72035	2.85428	1.93164	1.96816
635233.4	4254274.1	5.97475E-05	9.75185E-05	0.000118002	0.000118569	0.000393837	1.70683	2.85052	1.91399	1.92318
635235.4	4254250.54	5.92606E-05	9.73642E-05	0.000116701	0.000115514	0.000388839	1.69292	2.84601	1.89288	1.87363
635237.5	4254226.97	5.87523E-05	9.71754E-05	0.000115422	0.000112133	0.000383483	1.6784	2.84049	1.87214	1.81879
635239.5	4254203.4	5.82223E-05	9.6955E-05	0.000114273	0.000108221	0.000377671	1.66326	2.83405	1.8535	1.75534
635313	4254510.77	4.94053E-05	7.52928E-05	7.70366E-05	0.000104504	0.000306239	1.41138	2.20085	1.24953	1.69505
635314.8	4254494.78	4.91567E-05	7.5066E-05	7.78202E-05	0.000101842	0.000303885	1.40428	2.19422	1.26224	1.65187
635316.8	4254471.21	4.88914E-05	7.48436E-05	7.95366E-05	9.8483E-05	0.000301755	1.3967	2.18772	1.29008	1.59739
635318.9	4254447.64	4.86443E-05	7.46065E-05	8.12086E-05	9.54929E-05	0.000299952	1.38964	2.18079	1.3172	1.54889
635320.9	4254424.07	4.84139E-05	7.43595E-05	8.26765E-05	9.29158E-05	0.000298366	1.38306	2.17357	1.34101	1.50709
635322.9	4254400.51	4.81938E-05	7.40985E-05	8.38177E-05	9.0708E-05	0.000296818	1.37677	2.16594	1.35952	1.47128
635324.9	4254376.94	4.7982E-05	7.38282E-05	8.45798E-05	8.87962E-05	0.000295186	1.37072	2.15804	1.37188	1.44027
635327	4254353.37	4.77723E-05	7.35439E-05	8.49515E-05	8.71316E-05	0.000293399	1.36473	2.14973	1.37791	1.41327
635329	4254329.8	4.75616E-05	7.32463E-05	8.50557E-05	8.56593E-05	0.000291523	1.35871	2.14103	1.3796	1.38939
635331	4254306.24	4.73459E-05	7.2935E-05	8.49725E-05	8.44145E-05	0.000289668	1.35255	2.13193	1.37825	1.3692
635333.1	4254282.67	4.71195E-05	7.26025E-05	8.4753E-05	8.32598E-05	0.000287735	1.34608	2.12221	1.37469	1.35047
635335.1	4254259.1	4.68814E-05	7.22511E-05	8.44429E-05	8.21396E-05	0.000285715	1.33928	2.11194	1.36966	1.3323
635337.1	4254235.53	4.6628E-05	7.18744E-05	8.40613E-05	8.09811E-05	0.000283545	1.33204	2.10093	1.36347	1.31351
635339.1	4254211.97	4.63588E-05	7.14728E-05	8.36907E-05	7.97844E-05	0.000281307	1.32435	2.08919	1.35746	1.2941
635412.3	4254522.01	3.89283E-05	5.89982E-05	6.00667E-05	7.47468E-05	0.00023274	1.11208	1.72455	0.97428	1.21239
635414.5	4254503.34	3.88026E-05	5.868E-05	6.0412E-05	7.28226E-05	0.000230717	1.10849	1.71525	0.97988	1.18118
635416.5	4254479.77	3.87099E-05	5.83567E-05	6.1084E-05	7.07579E-05	0.000228909	1.10584	1.7058	0.99078	1.14769
635418.5	4254456.21	3.86238E-05	5.80208E-05	6.17751E-05	6.89595E-05	0.000227379	1.10338	1.69598	1.00199	1.11852
635420.5	4254432.64	3.85425E-05	5.76739E-05	6.24434E-05	6.73997E-05	0.000227375	1.10106	1.68584	1.01283	1.09322
635422.6	4254409.07	3.84652E-05	5.73181E-05	6.30094E-05	6.60816E-05	0.000224874	1.09885	1.67544	1.02201	1.09322
635424.6	4254385.5	3.83875E-05	5.695E-05	6.34903E-05	6.49885E-05	0.000223816	1.09663	1.66468	1.02981	1.05411
635426.6	4254361.94	3.83087E-05	5.65733E-05	6.3809E-05	6.40754E-05	0.000222766	1.09438	1.65367	1.03498	1.0393
635428.6	4254338.37	3.8224E-05	5.61844E-05	6.40439E-05	6.33553E-05	0.000221808	1.09196	1.6423	1.03879	1.02762
635430.7	4254314.8	3.81333E-05	5.57858E-05	6.41981E-05	6.27998E-05	0.000220917	1.08937	1.63065	1.04129	1.01861
635432.7	4254291.23	3.80332E-05	5.53729E-05	6.42856E-05	6.23633E-05	0.000220055	1.08651	1.61858	1.04271	1.01153
635434.7	4254267.67	3.79233E-05	5.49463E-05	6.43097E-05	6.20026E-05	0.000219182	1.08337	1.60611	1.0431	1.00568
635436.7	4254244.1	3.78036E-05	5.45063E-05	6.43269E-05	6.16968E-05	0.000218334	1.07995	1.59325	1.04338	1.00072
635438.8	4254220.53	3.7672E-05	5.40489E-05	6.43183E-05	6.14619E-05	0.000217501	1.07619	1.57988	1.04324	0.99691
634758	4254138.22	0.000484966	0.001788817	0.000468789	0.000385325	0.003127897	13.85422	52.28812	7.60373	6.24995
634760.4	4254114.41	0.00036132	0.001797794	0.000298976	0.000237939	0.002696029	10.32196	52.55052	4.84938	3.85936
634762.9	4254090.6	0.000265358	0.001806104	0.000265016	0.000360793	0.002697271	7.58059	52.79343	4.29855	5.85204
634765.3	4254066.78	0.000201644	0.001814606	0.000236179	0.000421326	0.002673754	5.76043	53.04193	3.83081	6.83389
634767.7	4254042.97	0.000159631	0.001822043	0.0002117	0.000413953	0.002607327	4.56023	53.25933	3.43377	6.7143
634770.2	4254019.16	0.000130809	0.00182885	0.000191092	0.000379472	0.002530224	3.73688	53.45831	3.09951	6.15502
634772.6	4253995.35	0.000110199	0.001834202	0.000173879	0.000342989	0.002461269	3.14811	53.61475	2.82031	5.56326
634775	4253971.53	9.48641E-05	0.001838638	0.000160122	0.000312322	0.002405946	2.71002	53.7444	2.59717	5.06585
634777.5	4253947.72	8.30905E-05	0.00184161	0.000148663	0.000287482	0.002360845	2.37368	53.83128	2.41131	4.66294
634779.9	4253923.91	7.37666E-05	0.001842396	0.000137706	0.000266901	0.00232077	2.10732	53.85425	2.23359	4.32913
634782.3	4253900.1	6.62661E-05	0.001845663	0.000128687	0.000250072	0.002290689	1.89305	53.94977	2.0873	4.05616
634784.8	4253876.28	6.00839E-05	0.001849629	0.000120958	0.000235361	0.002266031	1.71644	54.06567	1.96193	3.81754
634787.2	4253852.47	5.49123E-05	0.00185324	0.000113374	0.000221974	0.0022435	1.5687	54.17124	1.83892	3.60041
634789.6	4253828.66	5.05195E-05	0.001856881	0.000106931	0.000209396	0.002223728	1.44321	54.27766	1.73442	3.3964
634792.1	4253804.85	4.67453E-05	0.001859581	0.000100942	0.000197412	0.00220468	1.33539	54.35658	1.63727	3.20202
634794.5	4253781.03	4.34653E-05	0.001862152	9.5208E-05	0.000185954	0.002186779	1.24169	54.43173	1.54427	3.01617
634772.2	4254139.67	0.000409322	0.001415136	0.000461698	0.000462169	0.002748324	11.69325	41.3652	7.48872	7.49636
634774.6	4254115.86	0.000333264	0.00142224	0.000322659	0.000268646	0.002346809	9.52049	41.57287	5.23351	4.35742
634777.1	4254092.05	0.000353204	0.001428511	0.000322033	0.000360645	0.002340003	7.5596	41.75617	4.62998	5.84965
634779.5	4254068.24	0.000210235	0.001434487	0.000254969	0.000432828	0.0023332519	6.00586	41.93086	4.13559	7.02045
634781.9	4254044.42	0.000210233	0.001434487	0.000234303	0.000432828	0.002332313	4.85306	42.07592	3.70491	7.20223
634784.4	4254020.61	0.000103881	0.001443892	0.000228417	0.000444033	0.002281783	4.00826	42.20576	3.34193	6.78881
634786.8	4253996.8	0.000140309	0.001447162	0.000200038	0.000418347	0.002208780	3.38025	42.30134	3.03624	6.2081
634789.2	4253996.8	0.000118325	0.001447162	0.000187192	0.000382745	0.002133423	2.90365	42.30134	2.77341	5.66031
634789.2	4253972.99	8.86819E-05	0.001450137	0.000170988	0.000348972	0.002071738	2.53341	42.3883	2.77341	5.18453
634791.7	4253949.17 4253925.36	8.86819E-05 7.83726E-05	0.001451817	0.000156943	0.000319639	0.002017081	2.53341	42.43743 42.40755	2.35628	5.18453 4.77135
634796.5 634799	4253901.55 4253877.74	7.01118E-05 6.33218E-05	0.001452754 0.001454681	0.000134862 0.000126007	0.000273471 0.000255612	0.001931199 0.001899622	2.00291 1.80894	42.46482 42.52112	2.18745 2.04383	4.43569 4.14602
634801.4	4253853.92	5.7658E-05	0.001456209	0.000118413	0.000239726	0.001872006	1.64714	42.5658	1.92066	3.88834
634803.8	4253830.11	5.28676E-05	0.0014574	0.000110989	0.000225094	0.00184635	1.51029	42.60061	1.80024	3.65101
634806.3	4253806.3	4.87706E-05	0.001458081	0.000104694	0.000211473	0.001823018	1.39325	42.62052	1.69813	3.43008
634808.7	4253782.49	4.52253E-05	0.001458388	9.86057E-05	0.000198565	0.001800784	1.29197	42.62949	1.59938	3.22071
634786.4	4254141.13	0.000351882	0.001161642	0.000429364	0.000518217	0.002461104	10.05235	33.95543	6.96426	8.40546
634788.8	4254117.31	0.000301427	0.001167777	0.000346166	0.000301064	0.002116433	8.61098	34.13478	5.61479	4.88324

634791.3	4254093.5	0.000252947	0.001173053	0.000306978	0.000345057	0.002078035	7.22604	34.28898	4.97917	5.59681
634793.7	4254069.69	0.000210116	0.001177669	0.00027383	0.000406266	0.002067882	6.00248	34.42392	4.44151	6.58962
634796.1	4254045.88	0.000174829	0.00118124	0.000245355	0.000432895	0.002034318	4.9944	34.52831	3.97964	7.02153
634798.6	4254022.06	0.000146865	0.001184264	0.000220685	0.000425877	0.001977691	4.19556	34.6167	3.5795	6.9077
634801	4253998.25	0.000124965	0.001186459	0.000200536	0.000401671	0.001913632	3.56992	34.68087	3.25269	6.51509
634803.4	4253974.44	0.000107751	0.001188237	0.000182883	0.000372608	0.001851479	3.07816	34.73283	2.96636	6.04368
634805.9	4253950.63	9.40831E-05	0.001189245	0.000166901	0.000344011	0.00179424	2.68771	34.76228	2.70713	5.57985
634808.3	4253926.81	8.30699E-05	0.001189057	0.00015355	0.000317739	0.001743417	2.37309	34.7568	2.49058	5.15372
634810.8	4253903	7.41426E-05	0.001189836	0.000141764	0.000295018	0.00170076	2.11806	34.77957	2.2994	4.78518
634813.2	4253879.19	6.67807E-05	0.001190671	0.00013234	0.000275018	0.00166481	1.90775	34.80397	2.14655	4.46078
634815.6	4253855.38	6.06321E-05	0.001190913	0.000123304	0.000257009	0.001631858	1.7321	34.81105	1.99999	4.16867
634818.1	4253831.56	5.54331E-05	0.001191065	0.000115879	0.00024057	0.001602948	1.58358	34.8155	1.87956	3.90203
634820.5	4253807.75	5.09942E-05	0.001190529	0.000108753	0.000225297	0.001575573	1.45677	34.79983	1.76397	3.6543
634822.9	4253783.94	4.71643E-05	0.001189822	0.00010254	0.000211046	0.001550573	1.34736	34.77917	1.6632	3.42315
634800.6	4254142.58	0.000308091	0.000979177	0.000423734	0.000513405	0.002224408	8.80137	28.6219	6.87294	8.32741
634803.1	4254118.77	0.000272369	0.000984378	0.000368528	0.00031583	0.001941106	7.78087	28.77393	5.97751	5.12275
634805.5	4254094.96	0.000237069	0.000988565	0.000327273	0.000323237	0.001876144	6.77245	28.8963	5.30835	5.24289
634807.9	4254071.14	0.000204033	0.000992276	0.000292338	0.000366807	0.001855454	5.8287	29.00479	4.74171	5.94959
634810.4	4254047.33	0.000174777	0.000995372	0.000261933	0.000398618	0.0018307	4.99291	29.09528	4.24854	6.46557
634812.8	4254023.52	0.000149948	0.000997709	0.000236367	0.00040802	0.001792043	4.28362	29.16358	3.83386	6.61806
634815.2	4253999.71	0.000129394	0.000999535	0.000213827	0.000399639	0.001742395	3.69646	29.21696	3.46826	6.48213
634817.7	4253975.89	0.000112541	0.001000731	0.000194223	0.000381141	0.001688636	3.21499	29.25193	3.15029	6.18209
634820.1	4253952.08	9.87528E-05	0.001001566	0.000177824	0.000358254	0.001636398	2.82111	29.27634	2.8843	5.81087
634822.5	4253928.27	8.74245E-05	0.001001885	0.000163434	0.000334723	0.001587467	2.49749	29.28567	2.65089	5.42919
634825	4253904.46	7.8061E-05	0.001002343	0.000150415	0.000312469	0.001543289	2.23	29.29905	2.43973	5.06824
634827.4	4253880.64	7.02514E-05	0.001002314	0.000139315	0.000291825	0.001503706	2.0069	29.29819	2.25969	4.73339
634829.8	4253856.83	6.36869E-05	0.001002139	0.000129244	0.000272768	0.001467838	1.81937	29.29307	2.09634	4.42429
634832.3	4253833.02	5.81184E-05	0.001001391	0.000120888	0.00025503	0.001435428	1.66029	29.27121	1.9608	4.13658
634834.7	4253809.21	5.33521E-05	0.001000442	0.000113106	0.000238524	0.001405424	1.52413	29.24347	1.83457	3.86885
634837.1	4253785.39	4.9246E-05	0.000999603	0.000106639	0.000223442	0.00137893	1.40683	29.21896	1.72968	3.62422
634814.8	4254144.03	0.000274054	0.000842038	0.000437572	0.000476445	0.002030109	7.829	24.61325	7.0974	7.72791
634817.3	4254120.22	0.000247407	0.000846629	0.000387337	0.000312971	0.001794344	7.06777	24.74744	6.28259	5.07637
634819.7	4254096.41	0.000220757	0.000850118	0.00034525	0.000299509	0.001715635	6.30646	24.84942	5.59994	4.85803
634822.1	4254072.6	0.000195099	0.000853544	0.000309035	0.000327479	0.001685156	5.57347	24.94956	5.01253	5.31169
634824.6	4254048.78	0.000171286	0.000856413	0.000277347	0.000357293	0.00166234	4.89319	25.03344	4.49856	5.79528
634827	4254024.97	0.000150003	0.000858681	0.000250428	0.000376076	0.001635187	4.2852	25.09971	4.06193	6.09993
634829.4	4254001.16	0.000131509	0.000860377	0.000226685	0.000381176	0.001599747	3.75687	25.1493	3.67682	6.18266
634831.9	4253977.35	0.000115721	0.000861524	0.000206434	0.000374914	0.001558593	3.30586	25.18282	3.34835	6.08109
634834.3	4253953.53	0.000102351	0.00086225	0.000188432	0.000361069	0.001514102	2.92389	25.20406	3.05636	5.85652
634836.7	4253929.72	9.10822E-05	0.000862576	0.00017282	0.000343236	0.001469714	2.60198	25.21357	2.80313	5.56728
634839.2	4253905.91	8.15682E-05	0.000862593	0.000159211	0.000323907	0.001427279	2.33019	25.21407	2.5824	5.25375
634841.6	4253882.1	7.35153E-05	0.000862261	0.000147289	0.000304525	0.00138759	2.10014	25.20437	2.38902	4.93938
634844	4253858.28	6.66585E-05	0.000861604	0.000136425	0.000285617	0.001350305	1.90426	25.18516	2.21281	4.6327
634846.5	4253834.47	6.07983E-05	0.000860538	0.000126908	0.000267567	0.001315811	1.73685	25.154	2.05844	4.33993
634848.9	4253810.66	5.5752E-05	0.000859085	0.000118633	0.000250359	0.00128383	1.59269	25.11154	1.92423	4.06081
634851.4	4253786.85	5.13985E-05	0.000858214	0.000111141	0.000234834	0.001255588	1.46832	25.08606	1.80271	3.809
634829	4254145.49	0.000246842	0.000734818	0.000446271	0.000435986	0.001863917	7.05162	21.47914	7.2385	7.07168
634831.5	4254121.67	0.000226237	0.000739237	0.000400492	0.000296222	0.001662188	6.463	21.6083	6.49597	4.80471
634833.9	4254097.86	0.000205563	0.000742891	0.000359195	0.000275252	0.001582901	5.87239	21.71511	5.82613	4.46458
634836.3	4254074.05	0.000185281	0.000746286	0.000323114	0.000293372	0.001548053	5.293	21.81435	5.2409	4.75848
634838.8	4254050.24	0.000165887	0.000749092	0.000290912	0.000318851	0.001524742	4.73895	21.89638	4.71858	5.17175
634841.2	4254026.42	0.000147878	0.000751147	0.000263353	0.000340969	0.001503347	4.22448	21.95645	4.27158	5.5305
634843.6	4254002.61	0.00013163	0.000752733	0.000239068	0.000354527	0.001477958	3.76034	22.00281	3.87767	5.75041
634846.1	4253978.8	0.000117256	0.000753675	0.000217447	0.000358166	0.001446544		22.03035	3.52698	5.80943
634848.5	4253954.99						3.34971			
634851		0.000104712	0.00075429	0.000198719	0.000353408	0.00141113	2.99135	22.04831	3.22322	5.73227
634853.4	4253931.17	0.000104712 9.38364E-05	0.00075429 0.000754402	0.000181984	0.000342551	0.001372773	2.99135 2.68066	22.04831 22.0516	3.22322 2.95177	5.55616
	4253907.36	0.000104712 9.38364E-05 8.44554E-05	0.00075429 0.000754402 0.000754272	0.000181984 0.000167669	0.000342551 0.000328108	0.001372773 0.001334503	2.99135 2.68066 2.41267	22.04831 22.0516 22.04778	3.22322 2.95177 2.71958	5.55616 5.32189
634855.8	4253907.36 4253883.55	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05	0.00075429 0.000754402 0.000754272 0.000753617	0.000181984 0.000167669 0.000154756	0.000342551 0.000328108 0.00031162	0.001372773 0.001334503 0.001296359	2.99135 2.68066 2.41267 2.18158	22.04831 22.0516 22.04778 22.02865	3.22322 2.95177 2.71958 2.51013	5.55616 5.32189 5.05446
634858.3	4253907.36 4253883.55 4253859.74	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761	0.000181984 0.000167669 0.000154756 0.000143432	0.000342551 0.000328108 0.00031162 0.000294392	0.001372773 0.001334503 0.001296359 0.001259969	2.99135 2.68066 2.41267 2.18158 1.98214	22.04831 22.0516 22.04778 22.02865 22.00361	3.22322 2.95177 2.71958 2.51013 2.32646	5.55616 5.32189 5.05446 4.77502
634858.3 634860.7	4253907.36 4253883.55 4253859.74 4253835.92	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.00075145	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838	5.55616 5.32189 5.05446 4.77502 4.49365
634858.3 634860.7 634863.1	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.00075145 0.000750148	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255
634858.3 634860.7 634863.1 634865.6	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.00075145 0.000750148 0.000748714	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424 0.000116127	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568
634858.3 634860.7 634863.1 634865.6 634843.3	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.00075145 0.000750148 0.000748714 0.000648558	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424 0.000116127 0.000448799	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000208213	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.00075145 0.000750148 0.000748714 0.000648558 0.000652997	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000208213 0.000191769	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.00075145 0.000750148 0.000748714 0.000648558 0.000652997 0.000656837	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000208213 0.000191769 0.000175431	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.00075145 0.000750148 0.000748714 0.000648558 0.000652997 0.000656837 0.000660215	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000208213 0.000191769 0.000175431 0.000159476	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.00075145 0.000750148 0.000748714 0.000648558 0.000652997 0.000656837 0.000660215 0.000662804	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000301288	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000286461	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853 634855.4	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69 4254027.88	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000224539 0.000191769 0.000175431 0.000159476 0.000144315	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.00075145 0.000750148 0.000748714 0.000648558 0.000652997 0.000656837 0.000660215 0.000662804 0.000664861	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000301288 0.000273815	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000286461 0.000308709	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029 0.001391699	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558 4.12269	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412 19.43426	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688 4.44127	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639 5.00724
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853 634855.4 634857.9	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69 4254027.88 4254004.07	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000208213 0.000191769 0.000175431 0.000159476 0.000144315 0.000130212	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.00075145 0.000750148 0.000748714 0.000648558 0.000652997 0.000656837 0.000660215 0.000662804 0.000664861 0.000666252	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000301288 0.000273815 0.000249305	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000286461 0.000308709 0.000326291	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029 0.001391699 0.00137206	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558 4.12269 3.71981	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412 19.43426 19.47492	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688 4.44127 4.04371	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639 5.00724 5.29243
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853 634855.4 634857.9 634860.3	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69 4254027.88 4254004.07 4253980.25	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000298213 0.000191769 0.000175431 0.000159476 0.000144315 0.000130212 0.000117367	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.00075145 0.000750148 0.000748714 0.000648558 0.000652997 0.000656837 0.000660215 0.000662804 0.000664861 0.000666252 0.000667235	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000301288 0.000273815 0.000249305 0.000227608	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000264878 0.000286461 0.000308709 0.000336554	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029 0.001391699 0.00137206 0.001348764	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558 4.12269 3.71981 3.35288	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412 19.43426 19.47492 19.50364	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688 4.44127 4.04371 3.69179	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639 5.00724 5.29243 5.45889
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853 634855.4 634857.9 634860.3 634862.7	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69 4254027.88 4254004.07 4253980.25 4253956.44	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000224539 0.000191769 0.000175431 0.000175431 0.000159476 0.000144315 0.000130212 0.000117367 0.00010585	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.00075145 0.000750148 0.000748714 0.000648558 0.000652997 0.000660215 0.000662804 0.000664861 0.000666252 0.000667235 0.000667669	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000301288 0.000273815 0.000249305 0.000227608 0.000208011	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000286461 0.000308709 0.000336554 0.000338873	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029 0.001391699 0.00137206 0.001348764 0.001320403	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558 4.12269 3.71981 3.35288 3.02385	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412 19.43426 19.47492 19.50364 19.51634	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688 4.44127 4.04371 3.69179 3.37393	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639 5.00724 5.29243 5.45889 5.4965
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853 634855.4 634857.9 634860.3 634862.7 634865.2	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69 4254027.88 4254004.07 4253980.25 4253956.44 4253932.63	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000208213 0.000191769 0.000175431 0.000159476 0.000144315 0.000130212 0.000117367 0.00010585 9.56101E-05	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.000750148 0.000748714 0.000648558 0.000652997 0.000656837 0.000660215 0.000662804 0.000664861 0.000667235 0.000667669 0.000667446	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000333038 0.000273815 0.000249305 0.000227608 0.000208011 0.000190629	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000286461 0.000308709 0.000336554 0.000338873 0.000334257	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029 0.001391699 0.00137206 0.001348764 0.001320403 0.001287942	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558 4.12269 3.71981 3.35288 3.02385 2.73133	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412 19.43426 19.47492 19.50364 19.51634 19.50981	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688 4.44127 4.04371 3.69179 3.37393 3.092	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639 5.00724 5.29243 5.45889 5.4965 5.42163
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853 634855.4 634857.9 634860.3 634862.7 634865.2 634867.6	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69 4254027.88 4254004.07 4253980.25 4253956.44 4253932.63 4253908.82	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000298213 0.000191769 0.000175431 0.000159476 0.000144315 0.000130212 0.000117367 0.00010585 9.56101E-05 8.65847E-05	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.00075145 0.000750148 0.000748714 0.000648558 0.000652997 0.000660215 0.000662804 0.000664861 0.000667235 0.000667235 0.000667446 0.000666904	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000301288 0.000273815 0.000249305 0.000227608 0.000227608 0.000190629 0.000175057	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000264878 0.000286461 0.000308709 0.000336554 0.000338873 0.000334257 0.000324903	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029 0.001391699 0.00137206 0.00137206 0.001320403 0.001287942 0.001253449	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558 4.12269 3.71981 3.35288 3.02385 2.73133 2.4735	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412 19.43426 19.47492 19.50364 19.50364 19.50981 19.49397	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688 4.44127 4.04371 3.69179 3.37393 3.092 2.83942	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639 5.00724 5.29243 5.45889 5.4965 5.42163 5.26991
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634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853 634855.4 634857.9 634860.3 634862.7 634865.2 634867.6 634870 634872.5	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69 4254027.88 4254004.07 4253980.25 4253956.44 4253932.63 4253908.82 4253861.19	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000298213 0.000191769 0.000175431 0.000159476 0.000144315 0.000144315 0.000130212 0.000117367 0.00010585 9.56101E-05 8.65847E-05 7.86624E-05 7.17276E-05	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.000750148 0.000748714 0.000648558 0.000652997 0.000660215 0.000662804 0.000664861 0.000664861 0.000667235 0.000667446 0.000666904 0.000666362 0.000665725	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000273815 0.000249305 0.000227608 0.000227608 0.000229011 0.000190629 0.000175057 0.000149759	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000264878 0.000286461 0.000308709 0.000336554 0.000338873 0.000334257 0.000324903 0.000312539 0.000298492	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029 0.00137206 0.00137206 0.00137206 0.001320403 0.001287942 0.001253449 0.001219241 0.001185703	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558 4.12269 3.71981 3.35288 3.02385 2.73133 2.4735 2.24718 2.04907	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412 19.43426 19.47492 19.50364 19.50364 19.51634 19.50981 19.49397 19.47813 19.45952	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688 4.44127 4.04371 3.69179 3.37393 3.092 2.83942 2.6224 2.42908	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639 5.00724 5.29243 5.45889 5.4965 5.42163 5.26991 5.06937 4.84152
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853 634855.4 634857.9 634860.3 634862.7 634865.2 634867.6 634870 634872.5 634874.9	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69 4254027.88 4254004.07 4253980.25 4253956.44 4253932.63 4253908.82 4253885 4253861.19 4253837.38	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000224539 0.000191769 0.000175431 0.000159476 0.000159476 0.000144315 0.000130212 0.000117367 0.00010585 9.56101E-05 8.65847E-05 7.86624E-05 7.17276E-05 6.56304E-05	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.000750148 0.000750148 0.000648558 0.000652997 0.000662804 0.000662804 0.000664861 0.000667235 0.000667235 0.000667446 0.000666904 0.000666904 0.000666362 0.000665725 0.000665725	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000273815 0.000273815 0.000249305 0.000227608 0.000227608 0.000190629 0.000175057 0.000149759 0.000139039	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000286461 0.000308709 0.000336554 0.000338873 0.000334257 0.000324903 0.000312539 0.000298492 0.000282808	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029 0.001391699 0.00137206 0.00137206 0.001320403 0.001253449 0.001253449 0.001219241 0.001185703 0.00115176	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558 4.12269 3.71981 3.35288 3.02385 2.73133 2.4735 2.24718 2.04907 1.87489	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412 19.43426 19.47492 19.50364 19.51634 19.50981 19.49397 19.47813 19.45952 19.41735	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688 4.44127 4.04371 3.69179 3.37393 3.092 2.83942 2.6224 2.42908 2.25521	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639 5.00724 5.29243 5.45889 5.4965 5.42163 5.26991 5.06937 4.84152 4.58713
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853 634855.4 634857.9 634860.3 634862.7 634865.2 634867.6 634870 634872.5 634874.9 634877.3	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69 4254027.88 4254004.07 4253980.25 4253956.44 4253932.63 4253932.63 4253885 4253861.19 4253837.38 4253813.57	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000208213 0.000191769 0.000175431 0.000159476 0.000144315 0.000144315 0.000117367 0.00010585 9.56101E-05 8.65847E-05 7.86624E-05 7.17276E-05 6.56304E-05 6.02939E-05	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.000750148 0.000750148 0.000748714 0.000648558 0.000652997 0.000660215 0.000662804 0.000664861 0.000667235 0.000667235 0.000667446 0.000666904 0.000666362 0.000665725 0.000665725 0.000664283 0.000663099	0.000181984 0.000167669 0.000154756 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000331288 0.000273815 0.000249305 0.000227608 0.000227608 0.000227608 0.000190629 0.000175057 0.000161677 0.000149759 0.000139039 0.000129985	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000286461 0.000308709 0.000336554 0.000338873 0.000334257 0.000334257 0.000324903 0.000312539 0.000282808 0.00026749	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029 0.001391699 0.00137206 0.001320403 0.001320403 0.001287942 0.001253449 0.001219241 0.001185703 0.00115176 0.001120868	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558 4.12269 3.71981 3.35288 3.02385 2.73133 2.4735 2.24718 2.04907 1.87489 1.72244	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412 19.43426 19.47492 19.50364 19.50364 19.51634 19.50981 19.49397 19.47813 19.45952 19.41735 19.38274	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688 4.44127 4.04371 3.69179 3.37393 3.092 2.83942 2.6224 2.42908 2.25521 2.10835	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639 5.00724 5.29243 5.45889 5.4965 5.42163 5.26991 5.06937 4.84152 4.58713 4.33868
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853 634855.4 634857.9 634860.3 634862.7 634865.2 634867.6 634870 634874.9 634877.3 634879.8	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69 4254027.88 4254004.07 4253980.25 4253956.44 4253932.63 4253908.82 4253861.19 4253837.38 4253813.57 4253789.75	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000298213 0.000191769 0.000175431 0.000159476 0.000144315 0.000144315 0.000130212 0.000117367 0.00010585 9.56101E-05 8.65847E-05 7.86624E-05 7.17276E-05 6.56304E-05 6.02939E-05 5.55896E-05	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.000750148 0.000750148 0.000748714 0.000652997 0.000656837 0.000660215 0.000662804 0.000664861 0.000667235 0.000667235 0.000667235 0.000667446 0.000666904 0.000666362 0.000665725 0.000663029 0.000663099 0.000661344	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000273815 0.000249305 0.000227608 0.000227608 0.000227608 0.000190629 0.000175057 0.000161677 0.000149759 0.000139039 0.000129985 0.000121187	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000264878 0.000286461 0.000308709 0.000336554 0.000336554 0.00033873 0.000334257 0.000324903 0.000312539 0.000298492 0.000282808 0.00026749 0.000251958	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029 0.001391699 0.00137206 0.001320403 0.001253449 0.001253449 0.001253449 0.001219241 0.001185703 0.00115176 0.001120868 0.001090077	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558 4.12269 3.71981 3.35288 3.02385 2.73133 2.4735 2.24718 2.04907 1.87489 1.72244 1.58805	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412 19.43426 19.47492 19.50364 19.50364 19.51634 19.50981 19.49397 19.49397 19.47813 19.45952 19.41735 19.38274 19.33144	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688 4.44127 4.04371 3.69179 3.37393 3.092 2.83942 2.6224 2.42908 2.25521 2.10835 1.96564	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639 5.00724 5.29243 5.45889 5.45889 5.4965 5.42163 5.26991 5.06937 4.84152 4.58713 4.33868 4.08674
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853 634855.4 634857.9 634860.3 634862.7 634865.2 634867.6 634870 634872.5 634874.9 634877.3 634879.8 634893	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69 4254027.88 4254004.07 4253980.25 4253956.44 4253932.63 4253908.82 4253885 4253861.19 4253837.38 4253789.75 4253789.75 4254152.03	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000224539 0.000191769 0.000175431 0.000159476 0.000144315 0.000130212 0.000117367 0.00010585 9.56101E-05 8.65847E-05 7.86624E-05 7.17276E-05 6.56304E-05 6.02939E-05 5.55896E-05 0.000170828	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.00075145 0.000750148 0.000748714 0.000648558 0.000652997 0.0006662804 0.000664861 0.000664861 0.000667235 0.000667446 0.000667446 0.000666904 0.000666362 0.000665725 0.000665725 0.000663099 0.000661344 0.0004475	0.000181984 0.000167669 0.000154756 0.000143432 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000301288 0.000273815 0.000249305 0.000227608 0.000227608 0.000227608 0.000190629 0.000175057 0.000161677 0.000149759 0.000139039 0.000129985 0.000121187 0.000414496	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000286461 0.000308709 0.000336554 0.000338873 0.000338873 0.000334257 0.000324903 0.000312539 0.000282808 0.00026749 0.000251958 0.00037542	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029 0.001391699 0.00137206 0.001320403 0.001287942 0.001253449 0.001253449 0.001219241 0.001185703 0.00115176 0.001120868 0.001090077 0.001340367	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558 4.12269 3.71981 3.35288 3.02385 2.73133 2.4735 2.24718 2.04907 1.87489 1.72244 1.58805 4.88011	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412 19.43426 19.47492 19.50364 19.51634 19.50981 19.49397 19.49397 19.47813 19.45952 19.41735 19.38274 19.33144 13.08068	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688 4.44127 4.04371 3.69179 3.37393 3.092 2.83942 2.6224 2.42908 2.25521 2.10835 1.96564 6.72311	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639 5.00724 5.29243 5.45889 5.4965 5.42163 5.26991 5.06937 4.84152 4.58713 4.33868 4.08674 4.98832
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634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853 634855.4 634857.9 634860.3 634862.7 634865.2 634867.6 634870 634870.5 634870.8 634879.8 634893.4 634897.9	4253907.36 4253883.55 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69 4254027.88 4254004.07 4253980.25 4253980.25 4253956.44 4253932.63 4253908.82 4253885 4253861.19 4253885 4253885 4253885 4253885 4253885 4253885 4253885 4253885 4253885 4253885	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.00028213 0.000191769 0.000175431 0.000159476 0.000144315 0.000130212 0.000117367 0.00010585 9.56101E-05 8.65847E-05 7.86624E-05 7.17276E-05 6.56304E-05 6.02939E-05 5.55896E-05 0.000170828 0.000162352 0.000153715	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.000750148 0.000750148 0.000748714 0.000648558 0.000652997 0.000662804 0.000662804 0.000667235 0.000667235 0.000667235 0.000667446 0.000667446 0.000666904 0.000663029 0.000665725 0.000663029 0.000663029 0.000661344 0.000451193 0.000451193	0.000181984 0.000167669 0.000154756 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000273815 0.000249305 0.000227608 0.000227608 0.000175057 0.000190629 0.000175057 0.000149759 0.000139039 0.000129985 0.000121187 0.000386449 0.000386449 0.000358725	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000286461 0.000308709 0.000336554 0.000338873 0.000334257 0.000334257 0.000324903 0.000312539 0.000282808 0.00026749 0.000251958 0.000233998 0.000205105	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029 0.00137206 0.00137206 0.001320403 0.001287942 0.001253449 0.001253449 0.001253449 0.001219241 0.001185703 0.00115176 0.001120868 0.001090077 0.001340367 0.001233991 0.001171949	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558 4.12269 3.71981 3.35288 3.02385 2.73133 2.4735 2.24718 2.04907 1.87489 1.72244 1.58805 4.88011 4.63798 4.39123	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412 19.43426 19.47492 19.50364 19.50364 19.51634 19.50981 19.49397 19.49397 19.47813 19.45952 19.41735 19.33144 13.08068 13.18862 13.28248	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688 4.44127 4.04371 3.69179 3.37393 3.092 2.83942 2.6224 2.42908 2.25521 2.10835 1.96564 6.72311 6.26818 5.81851	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639 5.00724 5.29243 5.45889 5.4965 5.42163 5.26991 5.06937 4.84152 4.58713 4.33868 4.08674 4.98832 3.79543 3.3268
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634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853 634855.4 634857.9 634860.3 634862.7 634865.2 634867.6 634870 634872.5 634874.9 634877.3 634879.8 634893 634895.4 634897.9 634900.3 634900.3	4253907.36 4253883.55 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69 4254027.88 4254004.07 4253980.25 4253980.25 4253956.44 4253932.63 4253908.82 4253861.19 4253885 4253861.19 4253885 4253861.19 4253885 4253885 4253861.19 4253885 4253861.19 4253885 4253861.19 4253885 4253861.19 4253885 4253861.19 4253885 4253861.19 4253885 4253861.19 4253885 4253861.19 4253885	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.00028213 0.000191769 0.000175431 0.000159476 0.000144315 0.000130212 0.000117367 0.00010585 9.56101E-05 8.65847E-05 7.86624E-05 7.17276E-05 6.56304E-05 6.02939E-05 5.55896E-05 0.000170828 0.000153715 0.000136228	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.000750148 0.000750148 0.000748714 0.000652997 0.000656837 0.000660215 0.000662804 0.000667235 0.000667235 0.000667235 0.000667446 0.000667446 0.000666904 0.000665725 0.000665725 0.000663099 0.000661344 0.000457101 0.000457101	0.000181984 0.000167669 0.000154756 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000273815 0.000249305 0.000227608 0.000227608 0.000227608 0.000175057 0.000149759 0.000149759 0.000139039 0.000129985 0.000121187 0.000144496 0.000386449 0.000338725 0.000333409 0.000308971	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000286461 0.000308709 0.000336554 0.000336554 0.000338873 0.000334257 0.000324903 0.000312539 0.000298492 0.000282808 0.00026749 0.000251958 0.0002033998 0.000205105 0.000204624 0.000216431	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029 0.001391699 0.00137206 0.001320403 0.001287942 0.001253449 0.001253449 0.001219241 0.001185703 0.00115176 0.001120868 0.001090077 0.001340367 0.001233991 0.001171949 0.001120876	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558 4.12269 3.71981 3.35288 3.02385 2.73133 2.4735 2.24718 2.04907 1.87489 1.72244 1.58805 4.88011 4.63798 4.39123 4.14175 3.89168	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412 19.43426 19.47492 19.50364 19.50364 19.51634 19.50981 19.49397 19.49397 19.47813 19.45952 19.41735 19.38274 19.33144 13.08068 13.18862 13.28248 13.36132 13.42404	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688 4.44127 4.04371 3.69179 3.37393 3.092 2.83942 2.6224 2.42908 2.25521 2.10835 1.96564 6.72311 6.26818 5.81851 5.40788 5.01149	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639 5.00724 5.29243 5.45889 5.45889 5.4565 5.42163 5.26991 5.06937 4.84152 4.58713 4.33868 4.08674 4.98832 3.79543 3.3268 3.319 3.5105
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853 634855.4 634857.9 634860.3 634862.7 634865.2 634867.6 634870 634872.5 634874.9 634877.3 634879.8 634893 634895.4 634897.9 634900.3 634902.7 634905.2	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69 4254027.88 4254004.07 4253980.25 4253956.44 4253932.63 4253932.63 4253908.82 4253861.19 4253837.38 4253861.19 4253837.38 4253813.57 4253789.75 4254152.03 4254128.21 4254104.4 4254080.59 4254032.96	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000224539 0.000191769 0.000175431 0.000159476 0.000144315 0.000130212 0.000117367 0.00010585 9.56101E-05 8.65847E-05 7.86624E-05 7.17276E-05 6.56304E-05 6.02939E-05 5.55896E-05 0.000170828 0.000162352 0.000153715 0.000144982 0.000136228 0.000127546	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.00075145 0.000750148 0.000748714 0.000648558 0.000652997 0.000662804 0.000662804 0.000667235 0.000667235 0.000667235 0.000667446 0.000667446 0.000663029 0.00066362 0.000663029 0.000663029 0.000663029 0.000663029 0.000663029 0.000663029 0.000663029 0.000663020	0.000181984 0.000167669 0.000154756 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000273815 0.000249305 0.000227608 0.000227608 0.000227608 0.000175057 0.000161677 0.000149759 0.000139039 0.000129985 0.000121187 0.000414496 0.000358725 0.000333409 0.000285982	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000286461 0.000308709 0.000336554 0.000338873 0.000334257 0.000334257 0.000324903 0.000312539 0.000298492 0.000282808 0.00026749 0.000251958 0.000205105 0.000204624 0.000232723	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029 0.001391699 0.00137206 0.001320403 0.001287942 0.001253449 0.001253449 0.001219241 0.001185703 0.00115176 0.001120868 0.001090077 0.001340367 0.001233991 0.001171949 0.001171949 0.001120876 0.001107181	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558 4.12269 3.71981 3.35288 3.02385 2.73133 2.4735 2.24718 2.04907 1.87489 1.72244 1.58805 4.88011 4.63798 4.39123 4.14175 3.89168 3.64365	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412 19.43426 19.47492 19.50364 19.50364 19.51634 19.50981 19.49397 19.49397 19.47813 19.45952 19.41735 19.38274 19.33144 13.08068 13.18862 13.28248 13.36132 13.42404 13.47328	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688 4.44127 4.04371 3.69179 3.37393 3.092 2.83942 2.6224 2.42908 2.25521 2.10835 1.96564 6.72311 6.26818 5.81851 5.40788 5.01149 4.63861	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639 5.00724 5.29243 5.45889 5.4965 5.42163 5.26991 5.06937 4.84152 4.58713 4.33868 4.08674 4.98832 3.79543 3.3268 3.319 3.5105 3.77475
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853 634855.4 634857.9 634860.3 634862.7 634865.2 634867.6 634870 634872.5 634874.9 634877.3 634879.8 634893 634895.4 634895.4 634900.3 634902.7 634907.6	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69 4254027.88 4254004.07 4253980.25 4253956.44 4253932.63 4253908.82 4253861.19 4253861.19 425387.38 4253813.57 4253789.75 4254128.21 4254104.4 4254080.59 4254032.96 4254009.15	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.00028213 0.000191769 0.000175431 0.000159476 0.000144315 0.000130212 0.000117367 0.00010585 9.56101E-05 8.65847E-05 7.86624E-05 7.17276E-05 6.56304E-05 6.02939E-05 5.55896E-05 0.000170828 0.000153715 0.000136228 0.000136228 0.000127546 0.00011905	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.000750148 0.000748714 0.000648558 0.000652997 0.000660215 0.000662804 0.0006642804 0.000667235 0.000667235 0.000667446 0.000667446 0.000666362 0.000665725 0.000663099 0.000663099 0.000661344 0.000457101 0.000459247 0.000460931 0.000460931	0.000181984 0.000167669 0.000154756 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000273815 0.000249305 0.000227608 0.000227608 0.000190629 0.000175057 0.000161677 0.000149759 0.000149759 0.000129985 0.000129985 0.000121187 0.000414496 0.000386449 0.000386449 0.000388971 0.000285982 0.000264635	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000286461 0.00038709 0.000336554 0.00033873 0.000334257 0.000334257 0.000324903 0.000312539 0.000298492 0.000282808 0.00026749 0.000251958 0.0002033998 0.000205105 0.000204624 0.000232723 0.000250159	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029 0.00137206 0.00137206 0.001320403 0.001287942 0.001253449 0.001253449 0.001219241 0.001185703 0.00115176 0.001120868 0.001090077 0.001340367 0.001233991 0.001171949 0.001171949 0.001120876 0.001107181 0.00109606	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558 4.12269 3.71981 3.35288 3.02385 2.73133 2.4735 2.24718 2.04907 1.87489 1.72244 1.58805 4.88011 4.63798 4.39123 4.14175 3.89168 3.64365 3.40094	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412 19.43426 19.47492 19.50364 19.50364 19.51634 19.50981 19.49397 19.47813 19.45952 19.47735 19.38274 19.33144 13.08068 13.18862 13.28248 13.36132 13.42404 13.47328 13.51084	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688 4.44127 4.04371 3.69179 3.37393 3.092 2.83942 2.6224 2.42908 2.25521 2.10835 1.96564 6.72311 6.26818 5.81851 5.40788 5.01149 4.63861 4.29237	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639 5.00724 5.29243 5.45889 5.4965 5.42163 5.26991 5.06937 4.84152 4.58713 4.33868 4.08674 4.98832 3.79543 3.3268 3.319 3.5105 3.77475 4.05756
634858.3 634860.7 634863.1 634865.6 634843.3 634845.7 634848.1 634850.6 634853 634855.4 634857.9 634860.3 634862.7 634865.2 634867.6 634870 634872.5 634874.9 634877.3 634879.8 634893 634895.4 634897.9 634900.3 634902.7 634905.2	4253907.36 4253883.55 4253859.74 4253835.92 4253812.11 4253788.3 4254146.94 4254123.13 4254099.32 4254075.5 4254051.69 4254027.88 4254004.07 4253980.25 4253956.44 4253932.63 4253932.63 4253908.82 4253861.19 4253837.38 4253861.19 4253837.38 4253813.57 4253789.75 4254152.03 4254128.21 4254104.4 4254080.59 4254032.96	0.000104712 9.38364E-05 8.44554E-05 7.63661E-05 6.93847E-05 6.33418E-05 5.81023E-05 5.35397E-05 0.000224539 0.000224539 0.000191769 0.000175431 0.000159476 0.000144315 0.000130212 0.000117367 0.00010585 9.56101E-05 8.65847E-05 7.86624E-05 7.17276E-05 6.56304E-05 6.02939E-05 5.55896E-05 0.000170828 0.000162352 0.000153715 0.000144982 0.000136228 0.000127546	0.00075429 0.000754402 0.000754272 0.000753617 0.000752761 0.00075145 0.000750148 0.000748714 0.000648558 0.000652997 0.000662804 0.000662804 0.000667235 0.000667235 0.000667235 0.000667446 0.000667446 0.000663029 0.00066362 0.000663029 0.000663029 0.000663029 0.000663029 0.000663029 0.000663029 0.000663029 0.000663020	0.000181984 0.000167669 0.000154756 0.000133069 0.00012424 0.000116127 0.000448799 0.000405461 0.000367702 0.000333038 0.000273815 0.000249305 0.000227608 0.000227608 0.000227608 0.000175057 0.000161677 0.000149759 0.000139039 0.000129985 0.000121187 0.000414496 0.000358725 0.000333409 0.000285982	0.000342551 0.000328108 0.00031162 0.000294392 0.000277045 0.000260331 0.000244494 0.000399234 0.0002784 0.000252911 0.000264878 0.000286461 0.000308709 0.000336554 0.000338873 0.000334257 0.000334257 0.000324903 0.000312539 0.000298492 0.000282808 0.00026749 0.000251958 0.000205105 0.000204624 0.000232723	0.001372773 0.001334503 0.001296359 0.001259969 0.001224905 0.001192821 0.001162875 0.00172113 0.001545071 0.001469218 0.001433563 0.001410029 0.001391699 0.00137206 0.001320403 0.001287942 0.001253449 0.001253449 0.001219241 0.001185703 0.00115176 0.001120868 0.001090077 0.001340367 0.001233991 0.001171949 0.001171949 0.001120876 0.001107181	2.99135 2.68066 2.41267 2.18158 1.98214 1.80951 1.65983 1.52949 6.41448 5.94809 5.47833 5.01162 4.5558 4.12269 3.71981 3.35288 3.02385 2.73133 2.4735 2.24718 2.04907 1.87489 1.72244 1.58805 4.88011 4.63798 4.39123 4.14175 3.89168 3.64365	22.04831 22.0516 22.04778 22.02865 22.00361 21.96529 21.92724 21.88534 18.95772 19.08747 19.19971 19.29846 19.37412 19.43426 19.47492 19.50364 19.50364 19.51634 19.50981 19.49397 19.49397 19.47813 19.45952 19.41735 19.38274 19.33144 13.08068 13.18862 13.28248 13.36132 13.42404 13.47328	3.22322 2.95177 2.71958 2.51013 2.32646 2.15838 2.01517 1.88357 7.2795 6.57656 5.96411 5.40186 4.88688 4.44127 4.04371 3.69179 3.37393 3.092 2.83942 2.6224 2.42908 2.25521 2.10835 1.96564 6.72311 6.26818 5.81851 5.40788 5.01149 4.63861	5.55616 5.32189 5.05446 4.77502 4.49365 4.22255 3.96568 6.47556 4.51564 4.1022 4.29631 4.64639 5.00724 5.29243 5.45889 5.45889 5.4965 5.42163 5.26991 5.06937 4.84152 4.58713 4.33868 4.08674 4.98832 3.79543 3.3268 3.319 3.5105 3.77475

634914.9	4253937.71	9.54879E-05	0.000463236	0.000210286	0.000285291	0.001054301	2.72784	13.54065	3.41083	4.62741
634917.3	4253913.9	8.8524E-05	0.000462813	0.000194511	0.000288524	0.001034372	2.5289	13.52827	3.15496	4.67985
634919.8	4253890.09	8.20607E-05	0.000462051	0.000180678	0.000287645	0.001012435	2.34426	13.506	2.93059	4.66559
634922.2	4253866.28	7.60948E-05	0.000460856	0.000167597	0.000283159	0.000987706	2.17383	13.47107	2.71842	4.59282
634924.6	4253842.46	7.06239E-05	0.000459616	0.00015613	0.000276384	0.000962754	2.01754	13.43483	2.53242	4.48294
634927.1	4253818.65	6.5608E-05	0.000457867	0.000145615	0.000267196	0.000936286	1.87425	13.38372	2.36187	4.3339
634929.5	4253794.84	6.10206E-05	0.000455728	0.000135755	0.000256146	0.00090865	1.7432	13.32118	2.20194	4.15468
634942.7	4254157.11	0.000137649	0.000330581	0.000352656	0.000256622	0.001077508	3.93226	9.66307	5.72006	4.1624
634945.2	4254133.3	0.000132543	0.000333141	0.000336826	0.000209526	0.001012037	3.7864	9.7379	5.46331	3.39851
634947.6	4254109.49	0.000127299	0.000335345	0.000320222	0.000185538	0.000968404	3.6366	9.80233	5.19398	3.00942
634950	4254085.68	0.000127255	0.000333343	0.000323222	0.000183338	0.00094294	3.48386	9.85725	4.9263	2.92033
						0.000927048				
634952.5	4254061.86	0.000116543	0.000338744	0.000286882	0.000184879		3.32932	9.90167	4.65322	2.99873
634954.9	4254038.05	0.000111125	0.000339973	0.000270443	0.000194753	0.000916293	3.17454	9.93761	4.38657	3.15888
634957.3	4254014.24	0.000105724	0.000340922	0.000255102	0.000206937	0.000908685	3.02025	9.96534	4.13774	3.35651
634959.8	4253990.43	0.000100352	0.000341463	0.000239636	0.000219204	0.000900654	2.86679	9.98115	3.88688	3.55548
634962.2	4253966.61	9.50573E-05	0.00034166	0.000224967	0.000230674	0.000892357	2.71554	9.9869	3.64895	3.74152
634964.6	4253942.8	8.98867E-05	0.000341533	0.000211085	0.00024022	0.000882725	2.56783	9.9832	3.42379	3.89636
634967.1	4253918.99	8.48681E-05	0.000341033	0.000197578	0.000247048	0.000870526	2.42446	9.96857	3.20471	4.0071
634969.5	4253895.18	8.00238E-05	0.000340053	0.00018506	0.000250315	0.000855451	2.28607	9.93993	3.00166	4.0601
634972	4253871.36	7.54045E-05	0.000338896	0.000173382	0.000251044	0.000838726	2.15411	9.90611	2.81225	4.07192
634974.4	4253847.55	7.10184E-05	0.000337425	0.000162701	0.00024904	0.000820184	2.02881	9.86311	2.639	4.03942
634976.8	4253823.74	6.6872E-05	0.000337423	0.000152393	0.000244738	0.000799604	1.91036	9.80983	2.4718	3.96964
634979.3	4253799.93	6.29711E-05	0.000333521	0.00014319	0.000238766	0.000778448	1.79892	9.74901	2.32254	3.87277
634992.5	4254162.2	0.000114778	0.000255058	0.000289034	0.000221628	0.000880499	3.27892	7.45549	4.68812	3.5948
634994.9	4254138.39	0.000111393	0.000256506	0.000280375	0.000190708	0.000838982	3.18221	7.49782	4.54767	3.09327
634997.3	4254114.57	0.000107934	0.000257809	0.000271378	0.000172639	0.00080976	3.08338	7.5359	4.40174	2.8002
634999.8	4254090.76	0.000104393	0.000258925	0.000261806	0.000165867	0.000790991	2.98224	7.56851	4.24649	2.69035
635002.2	4254066.95	0.000100787	0.000259804	0.000251713	0.000166658	0.000778961	2.87921	7.59421	4.08277	2.70318
635004.6	4254043.14	9.71478E-05	0.000260478	0.000241012	0.000171749	0.000770386	2.77526	7.61391	3.9092	2.78576
635007.1	4254019.32	9.34996E-05	0.000260996	0.000230313	0.000179166	0.000763974	2.67104	7.62905	3.73567	2.90606
635009.5	4253995.51	8.98332E-05	0.000261181	0.000219859	0.000186947	0.00075782	2.5663	7.63446	3.56611	3.03227
635012	4253971.7	8.61727E-05	0.000261094	0.000219033	0.000194709	0.000751196	2.46173	7.63192	3.39354	3.15817
635014.4	4253947.89	8.25371E-05	0.000261054	0.000198771	0.000194703	0.000731130	2.35787	7.6219	3.22406	3.27509
635014.4	4253924.07	7.89271E-05	0.000260731	0.000138771	0.000201517	0.000743377	2.25474	7.60097	3.05628	3.36678
635019.3	4253900.26	7.53933E-05	0.00025919	0.00017855	0.000212281	0.000725415	2.15379	7.57628	2.89607	3.44319
635021.7	4253876.45	7.19446E-05	0.000258181	0.000169216	0.000215687	0.000715028	2.05527	7.54678	2.74467	3.49843
635024.1	4253852.64	6.85771E-05	0.000256832	0.000160184	0.000216724	0.000702318	1.95907	7.50734	2.59818	3.51526
635026.6	4253828.82	6.53126E-05	0.000255152	0.000151331	0.000215887	0.000687683	1.86581	7.45824	2.45459	3.50168
635029	4253805.01	6.21632E-05	0.000253124	0.000143105	0.000213001	0.000671393	1.77584	7.39896	2.32116	3.45486
635042.2	4254167.29	9.7843E-05	0.000202793	0.000235129	0.000192019	0.000727784	2.79512	5.92774	3.81379	3.11454
635044.6	4254143.47	9.55166E-05	0.000203562	0.000230393	0.000172303	0.000701775	2.72866	5.95024	3.73696	2.79475
635047.1	4254119.66	9.31184E-05	0.000204176	0.000225404	0.000159692	0.00068239	2.66015	5.96818	3.65605	2.59019
635049.5	4254095.85	9.06394E-05	0.000204632	0.000219628	0.000153354	0.000668252	2.58933	5.9815	3.56235	2.48739
635052	4254072.04	8.81158E-05	0.000204992	0.000213922	0.000152319	0.000659349	2.51724	5.99204	3.46981	2.4706
635054.4	4254048.22	8.55521E-05	0.000204332	0.000213322	0.000152315	0.000652622	2.444	5.99829		2.50422
									3.3652	
635056.8	4254024.41	8.29729E-05	0.000205315	0.000201187	0.000158628	0.000648103	2.37032	6.00147	3.26325	2.57294
635059.3	4254000.6	8.0364E-05	0.000205198	0.00019413	0.000163245	0.000642937	2.29579	5.99806	3.14878	2.64782
635061.7	4253976.79	7.77425E-05	0.000204874	0.000187089	0.000168108	0.000637814	2.2209	5.98859	3.03458	2.72671
635064.1	4253952.97	7.51189E-05	0.000204371	0.000179776	0.000172825	0.000632091	2.14595	5.97387	2.91596	2.80322
635066.6	4253929.16	7.24987E-05	0.000203663	0.000172484	0.000177062	0.000625707	2.0711	5.95317	2.79768	2.87193
635069	4253905.35	6.98926E-05	0.000202765	0.000165303	0.000180597	0.000618557	1.99665	5.92694	2.6812	2.92927
635071.4	4253881.54	6.73058E-05	0.000201655	0.000158217	0.000183255	0.000610433	1.92275	5.8945	2.56628	2.97238
635073.9	4253857.72	6.47493E-05	0.000200348	0.000151253	0.00018492	0.00060127	1.84972	5.85629	2.45331	2.9994
635076.3	4253833.91	6.22321E-05	0.000198819	0.000144462	0.000185499	0.000591013	1.77781	5.8116	2.34317	3.00879
635078.7	4253810.1	5.97646E-05	0.000197083	0.000137706	0.000184984	0.000579538	1.70732	5.76085	2.23359	3.00043
635141.7	4254177.46	7.40131E-05	0.000137003	0.000157700	0.000104304	0.000573556	2.11436	3.98255	2.60022	2.32151
635144.1	4254153.65	7.40131E-03 7.28187E-05		0.000157849	0.000145127	0.000513050				2.19313
			0.000136173				2.08024	3.98042	2.56031	
635146.6	4254129.83	7.15795E-05	0.000136033	0.000155521	0.000129555	0.000492689	2.04484	3.97631	2.52255	2.10138
635149	4254106.02	7.0298E-05	0.000135829	0.000153303	0.000126107	0.000485537	2.00823	3.97036	2.48656	2.04545
635151.4	4254082.21	6.89688E-05	0.000135548	0.000151095	0.000124588	0.0004802	1.97026	3.96213	2.45076	2.02082
635153.9	4254058.4	6.76012E-05	0.000135193	0.000148891	0.000124476	0.000476162	1.93119	3.95178	2.41501	2.019
635156.3	4254034.58	6.62E-05	0.000134751	0.000146537	0.000125249	0.000472736	1.89116	3.93884	2.37682	2.03153
635158.7	4254010.77	6.4776E-05	0.000134224	0.000144089	0.000126523	0.000469611	1.85048	3.92343	2.33712	2.05219
635161.2	4253986.96	6.33306E-05	0.000133596	0.000141362	0.000128057	0.000466345	1.80919	3.90508	2.29288	2.07708
635163.6	4253963.15	6.18712E-05	0.000132872	0.00013847	0.000129712	0.000462926	1.7675	3.88392	2.24598	2.10393
635166	4253939.33	6.03986E-05	0.000132035	0.000135454	0.000131391	0.000459277	1.72543	3.85945	2.19705	2.13115
635168.5	4253915.52	5.89182E-05	0.000131089	0.000132141	0.000133008	0.000455156	1.68314	3.8318	2.14332	2.15738
635170.9	4253891.71	5.74295E-05	0.000130019	0.000128706	0.000134459	0.000450614	1.64061	3.80054	2.0876	2.18092
635173.3	4253867.9	5.59372E-05	0.000130013	0.000125766	0.000134455	0.000435514	1.59798	3.76583	2.02999	2.20032
635175.8	4253844.08	5.44411E-05	0.000128832	0.000123134	0.000135655	0.000445578	1.55524	3.72729	1.97138	2.20032
635178.2	4253820.27	5.29471E-05	0.000126072	0.00011789	0.00013696	0.00043387	1.51256	3.68516	1.91217	2.22149
635241.2	4254187.63	5.78082E-05	9.66841E-05	0.000113443	0.000105572	0.000373507	1.65143	2.82613	1.84004	1.71237
635243.6	4254163.82	5.71736E-05	9.62712E-05	0.000112346	0.000102622	0.000368413	1.6333	2.81406	1.82224	1.66453
635246	4254140.01	5.65106E-05	9.58179E-05	0.000111375	0.000100421	0.000364124	1.61436	2.80081	1.8065	1.62882
635248.5	4254116.19	5.5815E-05	9.53174E-05	0.000110448	9.89109E-05	0.000360491	1.59449	2.78618	1.79146	1.60433
635250.9	4254092.38	5.50894E-05	9.47727E-05	0.000109555	9.80699E-05	0.000357487	1.57376	2.77026	1.77698	1.59069
635253.4	4254068.57	5.43305E-05	9.41768E-05	0.000108633	9.77648E-05	0.000354905	1.55208	2.75284	1.76202	1.58574
635255.8	4254044.76	5.35443E-05	9.35333E-05	0.000107742	9.78369E-05	0.000352656	1.52962	2.73403	1.74757	1.58691
635258.2	4254020.94	5.27325E-05	9.28344E-05	0.000106778	9.81513E-05	0.000350496	1.50643	2.7136	1.73193	1.59201
635260.7	4253997.13	5.19015E-05	9.20848E-05	0.000105796	9.86186E-05	0.000348401	1.48269	2.69169	1.716	1.59959
635263.1	4253973.32	5.10519E-05	9.12757E-05	0.000103736	9.91704E-05	0.000346234	1.45842	2.66804	1.69882	1.60854
635265.5	4253975.52	5.01883E-05	9.04133E-05	0.000104730	9.97833E-05	0.000340234	1.43375	2.64283	1.68043	1.61848
635268	4253925.69	4.93108E-05	8.94889E-05	0.000102393	0.000100422	0.000341615	1.40868	2.61581	1.66081	1.62884
635270.4	4253901.88	4.8423E-05	8.85098E-05	0.000101058	0.000101066	0.000339057	1.38332	2.58719	1.63916	1.63929
635272.8	4253878.07	4.75248E-05	8.74694E-05	9.95946E-05	0.000101681	0.00033627	1.35766	2.55678	1.61542	1.64926
635275.3	4253854.26	4.66185E-05	8.63747E-05	9.80286E-05	0.000102241	0.000333263	1.33177	2.52478	1.59002	1.65835
635277.7	4253830.44	4.57028E-05	8.52214E-05	9.63461E-05	0.000102712	0.000329982	1.30561	2.49107	1.56273	1.66598

C2F240.7	4254407.0	4 645965 05	7 11565 05	0 241005 05	7.007405.05	0.000370000	1 21002	2.07002	1 25205	1 20250
635340.7	4254197.8	4.61586E-05	7.1156E-05	8.34188E-05	7.90748E-05	0.000279808	1.31863	2.07993	1.35305	1.28259
635343.1	4254173.99	4.58183E-05	7.06247E-05	8.30391E-05	7.80699E-05	0.000277552	1.30891	2.0644	1.34689	1.26629
635345.5	4254150.18	4.54588E-05	7.00657E-05	8.27197E-05	7.74108E-05	0.000275655	1.29864	2.04806	1.34171	1.2556
635348	4254126.37	4.50769E-05	6.94746E-05	8.24651E-05	7.69589E-05	0.000273975	1.28773	2.03078	1.33758	1.24827
635350.4	4254102.55	4.46737E-05	6.8855E-05	8.22493E-05	7.67166E-05	0.000272495	1.27621	2.01267	1.33408	1.24434
635352.8	4254078.74	4.4247E-05	6.82036E-05	8.20409E-05	7.66494E-05	0.000271141	1.26402	1.99363	1.3307	1.24325
635355.3	4254054.93	4.37989E-05	6.75249E-05	8.18436E-05	7.67191E-05	0.000269886	1.25122	1.97379	1.3275	1.24438
635357.7	4254031.12	4.33298E-05	6.68154E-05	8.16174E-05	7.6872E-05	0.000268635	1.23782	1.95305	1.32383	1.24686
635360.1	4254007.3	4.28433E-05	6.60802E-05	8.1367E-05	7.70841E-05	0.000267375	1.22392	1.93156	1.31977	1.2503
635362.6	4253983.49	4.23406E-05	6.53169E-05	8.10631E-05	7.73319E-05	0.000266053	1.20956	1.90925	1.31484	1.25432
635365	4253959.68	4.18246E-05	6.45318E-05	8.0708E-05	7.76099E-05	0.000264674	1.19482	1.8863	1.30908	1.25883
635367.4	4253935.87	4.1295E-05	6.37234E-05	8.02887E-05	7.79077E-05	0.000263215	1.17969	1.86267	1.30228	1.26366
635369.9	4253912.05	4.07549E-05	6.28992E-05	7.98134E-05	7.82314E-05	0.000261699	1.16426	1.83858	1.29457	1.26891
	4253888.24	4.02042E-05				0.000261095				1.27435
635372.3			6.20583E-05	7.92659E-05	7.85668E-05		1.14853	1.814	1.28569	
635374.7	4253864.43	3.96449E-05	6.12099E-05	7.86488E-05	7.89084E-05	0.000258412	1.13255	1.7892	1.27568	1.27989
635377.2	4253840.62	3.90764E-05	6.03543E-05	7.79583E-05	7.92376E-05	0.000256627	1.11631	1.76419	1.26448	1.28523
635442.6	4254184.16	3.73926E-05	5.32118E-05	6.42018E-05	6.11241E-05	0.00021593	1.06821	1.55541	1.04135	0.99143
635445	4254160.35	3.71949E-05	5.26487E-05	6.41414E-05	6.10335E-05	0.000215018	1.06256	1.53895	1.04037	0.98996
635447.4	4254136.54	3.69824E-05	5.20712E-05	6.40859E-05	6.0994E-05	0.000214133	1.05649	1.52207	1.03947	0.98932
635449.9	4254112.73	3.67552E-05	5.14811E-05	6.40791E-05	6.10298E-05	0.000213345	1.05	1.50482	1.03936	0.9899
635452.3	4254088.91	3.65109E-05	5.08752E-05	6.40705E-05	6.11013E-05	0.000212558	1.04302	1.48711	1.03922	0.99106
635454.7	4254065.1	3.62522E-05	5.02601E-05	6.4105E-05	6.12344E-05	0.000211852	1.03563	1.46913	1.03978	0.99322
635457.2	4254041.29	3.59781E-05	4.96368E-05	6.41913E-05	6.14397E-05	0.000211246	1.0278	1.45091	1.04118	0.99655
635459.6	4254017.48	3.56921E-05	4.90134E-05	6.4338E-05	6.17227E-05	0.000211240	1.01963	1.43269	1.04356	1.00114
635462.1	4253993.66	3.539E-05	4.83788E-05	6.43553E-05	6.19003E-05	0.000210024	1.011	1.41414	1.04384	1.00402
635464.5	4253969.85	3.50764E-05	4.77442E-05	6.43423E-05	6.20803E-05	0.000209243	1.00204	1.39559	1.04363	1.00694
635466.9	4253946.04	3.47515E-05	4.71103E-05	6.42912E-05	6.22622E-05	0.000208415	0.99276	1.37706	1.0428	1.00989
635469.4	4253922.23	3.44176E-05	4.64842E-05	6.41993E-05	6.24502E-05	0.000207551	0.98322	1.35876	1.04131	1.01294
635471.8	4253898.41	3.40742E-05	4.5866E-05	6.40606E-05	6.26444E-05	0.000206645	0.97341	1.34069	1.03906	1.01609
635474.2	4253874.6	3.37231E-05	4.52633E-05	6.38738E-05	6.28479E-05	0.000205708	0.96338	1.32307	1.03603	1.01939
635476.7	4253850.79	3.33639E-05	4.46769E-05	6.3634E-05	6.30575E-05	0.000204732	0.95312	1.30593	1.03214	1.02279
634797.1	4253756.94	4.05767E-05	0.001857501	8.99053E-05	0.000175026	0.002163009	1.15917	54.2958	1.45826	2.83891
634799.8	4253732.73	3.80143E-05	0.001851785	8.49404E-05	0.000164573	0.002139313	1.08597	54.12871	1.37773	2.66937
634802.5	4253708.53	3.57362E-05	0.001831783	8.04675E-05	0.000154637	0.002135313	1.02089	53.95311	1.30518	2.50821
634805.1	4253684.33	3.36972E-05	0.001838884	7.62801E-05	0.00014522	0.002094082	0.96264	53.75161	1.23726	2.35547
634807.8	4253660.13	3.18619E-05	0.001832199	7.24466E-05	0.000136407	0.002072914	0.91021	53.5562	1.17508	2.21251
634810.4	4253635.93	3.02009E-05	0.001825179	6.87338E-05	0.000128171	0.002052285	0.86276	53.351	1.11486	2.07893
634813.1	4253611.73	2.86911E-05	0.001817635	6.53837E-05	0.00012051	0.00203222	0.81963	53.13049	1.06052	1.95466
634815.7	4253587.53	2.73123E-05	0.001810257	6.2219E-05	0.000113372	0.00201316	0.78024	52.91481	1.00919	1.83889
634818.4	4253563.32	2.60482E-05	0.001802408	5.93355E-05	0.000106795	0.001994587	0.74413	52.6854	0.96242	1.73221
634821	4253539.12	2.48861E-05	0.001794207	5.6658E-05	0.00010072	0.001976471	0.71093	52.44567	0.91899	1.63367
634823.7	4253514.92	2.38083E-05	0.001781095	5.39632E-05	9.4663E-05	0.00195353	0.68014	52.06241	0.87528	1.53543
634826.3	4253490.72	2.28141E-05	0.001768327	5.15717E-05	8.93307E-05	0.001932044	0.65174	51.68919	0.83649	1.44894
634829	4253466.52	2.18931E-05	0.001756156	4.94286E-05	8.45835E-05	0.001932044	0.62543	51.33342	0.80173	1.37194
634831.7	4253442.32	2.10366E-05	0.00174188	4.74416E-05	8.02228E-05	0.001890581	0.60096	50.91613	0.7695	1.30121
634834.3	4253418.12	2.02374E-05	0.001725441	4.55877E-05	7.61926E-05	0.001867459	0.57813	50.43561	0.73943	1.23584
634837	4253393.91	1.94901E-05	0.001705114	4.38485E-05	7.24496E-05	0.001840902	0.55678	49.84144	0.71122	1.17513
634839.6	4253369.71	1.87907E-05	0.001679521	4.22288E-05	6.90027E-05	0.001809543	0.5368	49.09334	0.68495	1.11922
634842.3	4253345.51	1.81336E-05	0.001649243	4.0706E-05	6.58041E-05	0.001773886	0.51803	48.20828	0.66025	1.06734
634844.9	4253321.31	1.75165E-05	0.001613332	3.92936E-05	6.28608E-05	0.001733003	0.5004	47.15859	0.63734	1.0196
634847.6	4253297.11	1.69375E-05	0.001574072	3.80803E-05	6.03362E-05	0.001689426	0.48386	46.01101	0.61766	0.97865
634850.2	4253272.91	1.63932E-05	0.001527953	3.70944E-05	5.82653E-05	0.001639706	0.46831	44.66291	0.60167	0.94506
634852.9	4253248.71	1.58716E-05	0.00146209	3.57153E-05	5.55242E-05	0.001569201	0.45341	42.73769	0.5793	0.9006
634855.5	4253224.5	1.53766E-05	0.001377024	3.43373E-05	5.28337E-05	0.001303201	0.43927	40.25118	0.55695	0.85696
634858.2	4253200.3	1.49111E-05	0.001271455	3.32455E-05	5.06962E-05	0.001370308	0.42597	37.16534	0.53924	0.82229
634860.8	4253176.1	1.44686E-05	0.001124315	3.21357E-05	4.85624E-05	0.001219482	0.41333	32.86435	0.52124	0.78768
634863.5	4253151.9	1.40499E-05	0.000925429	3.11844E-05	4.67387E-05	0.001017402	0.40137	27.0508	0.50581	0.7581
634866.2	4253127.7	1.36519E-05	0.000697493	3.02794E-05	4.50242E-05	0.000786448	0.39	20.3881	0.49113	0.73029
634868.8	4253103.5	1.32739E-05	0.000539103	2.94723E-05	4.35007E-05	0.00062535	0.3792	15.75828	0.47804	0.70558
634811.4	4253758.49	4.21274E-05	0.001453893	9.32216E-05	0.000186425	0.001775667	1.20347	42.4981	1.51205	3.02381
634814	4253734.29	3.93785E-05	0.001449037	8.80742E-05	0.000174828	0.001751317	1.12494	42.35615	1.42856	2.8357
634816.7	4253710.09	3.69428E-05	0.001443624	8.32462E-05	0.000163848	0.001727661	1.05536	42.19793	1.35025	2.65761
634819.3	4253685.89	3.47722E-05	0.00143766	7.88905E-05	0.000153582	0.001704905	0.99335	42.02361	1.2796	2.49109
634822	4253661.69	3.28241E-05	0.001431407	7.48313E-05	0.000143978	0.00168304	0.9377	41.84083	1.21376	2.33531
634824.6	4253637.49	3.10662E-05	0.001424586	7.10323E-05	0.000135003	0.001661687	0.88748	41.64143	1.15214	2.18974
634827.3	4253613.28	2.94728E-05	0.001424380	6.74811E-05	0.000133003	0.001601087	0.84196	41.43034	1.09454	2.05518
634829.9	4253589.08	2.80222E-05	0.001409969	6.42345E-05	0.00011903	0.001621256	0.80052	41.21418	1.04188	1.93066
634832.6	4253564.88	2.66958E-05	0.001401627	6.12079E-05	0.00011192	0.00160145	0.76263	40.97033	0.99279	1.81533
634835.2	4253540.68	2.54783E-05	0.001392846	5.83651E-05	0.000105388	0.001582077	0.72785	40.71365	0.94668	1.70939
634837.9	4253516.48	2.43522E-05	0.001381028	5.55791E-05	9.89546E-05	0.001559914	0.69568	40.36822	0.90149	1.60504
634840.5	4253492.28	2.33147E-05	0.001368479	5.30667E-05	9.32068E-05	0.001538067	0.66604	40.0014	0.86074	1.51181
634843.2	4253468.08	2.23556E-05	0.001356092	5.08405E-05	8.81488E-05	0.001517437	0.63864	39.63932	0.82463	1.42977
634845.9	4253443.87	2.14643E-05	0.001341488	4.87585E-05	8.34719E-05	0.001495183	0.61318	39.21245	0.79086	1.35391
634848.5	4253419.67	2.06347E-05	0.001324783	4.68176E-05	7.91765E-05	0.001471411	0.58948	38.72413	0.75938	1.28424
634851.2	4253395.47	1.98604E-05	0.001304851	4.50149E-05	7.52117E-05	0.001444938	0.56736	38.14153	0.73014	1.21993
634853.8	4253371.27	1.91358E-05	0.001304331	4.33213E-05	7.15347E-05	0.001444338	0.54666	37.43822	0.70267	1.16029
	4253371.27	1.84567E-05		4.17473E-05		0.001414782	0.52726	36.62527	0.67714	
634856.5			0.001252979		6.81568E-05					1.1055
634859.1	4253322.87	1.782E-05	0.00122043	4.03053E-05	6.50902E-05	0.001343646	0.50907	35.67386	0.65375	1.05576
634861.8	4253298.67	1.72231E-05	0.001183616	3.90907E-05	6.25026E-05	0.001302433	0.49202	34.59776	0.63405	1.01379
634864.4	4253274.46	1.66606E-05	0.001138404	3.80075E-05	6.01981E-05	0.00125327	0.47595	33.27618	0.61648	0.97641
634867.1	4253250.26	1.61233E-05	0.001079076	3.65494E-05	5.72708E-05	0.001189019	0.4606	31.54198	0.59283	0.92893
634869.7	4253226.06	1.5614E-05	0.001004168	3.51259E-05	5.44619E-05	0.00110937	0.44605	29.3524	0.56974	0.88337
634872.4	4253201.86	1.51361E-05	0.000912224	3.4005E-05	5.22357E-05	0.001013601	0.4324	26.66481	0.55156	0.84726
634875	4253177.66	1.46821E-05	0.000795257	3.2915E-05	5.01049E-05	0.000892959	0.41943	23.2458	0.53388	0.8127
634877.7	4253153.46	1.42526E-05	0.000658313	3.19267E-05	4.81876E-05	0.00075268	0.40716	19.24286	0.51785	0.7816
634880.4	4253129.26	1.38441E-05	0.000533391	3.09878E-05	4.63873E-05	0.00062461	0.39549	15.59132	0.50262	0.7524
634883	4253125.20	1.34566E-05	0.000333331	3.01918E-05	4.48565E-05	0.000532446	0.38442	12.97666	0.48971	0.7324
03-003	.255105.05	1.3-300L-03	J.00077JJ42	3.01310L-03	- 0505L-05	0.000332440	0.30442	12.37000	U. 7 UJ/1	0.72737

634825.6	4253760.05	4.38416E-05	0.001185695	9.66482E-05	0.000197788	0.001523973	1.25244	34.65853	1.56763	3.20812
634828.2	4253735.85	4.08889E-05	0.001181308	9.13547E-05	0.000185189	0.00149874	1.16809	34.53028	1.48177	3.00375
634830.9	4253711.65	3.82814E-05	0.001176449	8.61981E-05	0.000173362	0.00147429	1.0936	34.38825	1.39813	2.81192
634833.5	4253687.45	3.59595E-05	0.001170221	8.15625E-05	0.000162002	0.001449745	1.02727	34.20622	1.32294	2.62766
634836.2	4253663.24	3.38844E-05	0.001164186	7.73165E-05	0.000151589	0.001426976	0.96799	34.0298	1.25407	2.45877
634838.8	4253639.04	3.20194E-05	0.001157621	7.33646E-05	0.00014196	0.001404964	0.91471	33.8379	1.18997	2.30258
634841.5	4253614.84	3.03325E-05	0.001157621	6.9666E-05	0.00011130	0.001383685	0.86652	33.63494	1.12998	2.1574
634844.1	4253590.64	2.8801E-05	0.001133077	6.62832E-05	0.000133003	0.001363055	0.82277	33.41933	1.07511	2.02379
634846.8	42535566.44	2.74043E-05	0.0011455079	6.31395E-05	0.000124772	0.001303137	0.78287	33.17898	1.02412	1.90068
634849.4	4253542.24	2.61252E-05	0.001126189	6.01814E-05	0.000110191	0.001322687	0.74633	32.91913	0.97614	1.7873
634852.1	4253518.04	2.49449E-05	0.00111472	5.72856E-05	0.000103362	0.001300312	0.71261	32.58388	0.92917	1.67652
634854.7	4253493.83	2.38583E-05	0.001102307	5.46524E-05	9.72142E-05	0.001278032	0.68157	32.22106	0.88646	1.57681
634857.4	4253469.63	2.28565E-05	0.001089722	5.23183E-05	9.18023E-05	0.001256699	0.65295	31.85317	0.8486	1.48903
634860.1	4253445.43	2.19281E-05	0.001075225	5.01247E-05	8.68449E-05	0.001234123	0.62643	31.42942	0.81302	1.40862
634862.7	4253421.23	2.10642E-05	0.001058557	4.81136E-05	8.22783E-05	0.001210013	0.60175	30.9422	0.7804	1.33455
634865.4	4253397.03	2.02591E-05	0.001039038	4.6227E-05	7.80532E-05	0.001183578	0.57875	30.37167	0.7498	1.26602
634868	4253372.83	1.95072E-05	0.001016307	4.44711E-05	7.4171E-05	0.001154457	0.55727	29.70723	0.72132	1.20305
634870.7	4253348.63	1.8804E-05	0.000990305	4.28472E-05	7.06223E-05	0.001122579	0.53718	28.94717	0.69498	1.14549
634873.3	4253324.42	1.81455E-05	0.000960785	4.1423E-05	6.75211E-05	0.001087875	0.51837	28.08428	0.67188	1.09519
634876	4253300.22	1.7528E-05	0.000926334	4.01616E-05	6.47807E-05	0.001048804	0.50073	27.07726	0.65142	1.05074
634878.6	4253276.02	1.69448E-05				0.001048804	0.48407			1.0069
			0.000883791	3.88891E-05	6.20778E-05			25.8337	0.63078	
634881.3	4253251.82	1.63907E-05	0.000829736	3.73928E-05	5.90365E-05	0.000942556	0.46824	24.25364	0.60651	0.95757
634883.9	4253227.62	1.58663E-05	0.000763664	3.59415E-05	5.61426E-05	0.000871614	0.45326	22.32232	0.58297	0.91063
634886.6	4253203.42	1.53745E-05	0.000686458	3.47892E-05	5.38251E-05	0.000790447	0.43921	20.06554	0.56428	0.87304
634889.2	4253179.22	1.49086E-05	0.000597416	3.37196E-05	5.16956E-05	0.000697739	0.4259	17.46279	0.54693	0.8385
634891.9	4253155.01	1.44665E-05	0.000506802	3.26986E-05	4.96894E-05	0.000603657	0.41327	14.81411	0.53037	0.80596
634894.6	4253130.81	1.40464E-05	0.000432569	3.17029E-05	4.77646E-05	0.000526083	0.40127	12.64424	0.51422	0.77474
634897.2	4253106.61	1.36477E-05	0.000375542	3.08016E-05	4.60316E-05	0.000466023	0.38988	10.9773	0.4996	0.74663
634839.8	4253761.61	4.56983E-05	0.000996225	0.00010046	0.000209402	0.001351785	1.30548	29.12021	1.62945	3.39649
634842.4	4253737.41	4.25303E-05	0.000991943	9.48517E-05	0.000195775	0.0013251	1.21498	28.99504	1.53849	3.17547
634845.1	4253713.2	3.97369E-05	0.000987134	8.94928E-05	0.000182975	0.001299339	1.13518	28.85448	1.45157	2.96785
634847.7	4253689	3.72512E-05	0.000980395	8.44404E-05	0.000170376	0.001233333	1.06417	28.65749	1.36962	2.76349
634850.4	4253664.8	3.50393E-05	0.000974321	7.99429E-05	0.000170370	0.001272403	1.00098	28.47995	1.29667	2.58114
634853	4253640.6	3.30573E-05	0.000967987	7.57832E-05	0.000148848	0.001225675	0.94436	28.2948	1.2292	2.4143
634855.7	4253616.4	3.12699E-05	0.000961404	7.19583E-05	0.000139389	0.001204021	0.8933	28.10238	1.16716	2.26088
634858.3	4253592.2	2.96499E-05	0.000954212	6.84546E-05	0.000130659	0.001182976	0.84702	27.89214	1.11033	2.11929
634861	4253568	2.81765E-05	0.000946268	6.51691E-05	0.000122647	0.001162261	0.80493	27.65994	1.05704	1.98933
634863.6	4253543.79	2.68288E-05	0.000937524	6.21518E-05	0.000115244	0.001141749	0.76643	27.40435	1.0081	1.86925
634866.3	4253519.59	2.55904E-05	0.000926574	5.91845E-05	0.000108107	0.001119456	0.73105	27.08427	0.95997	1.75349
634868.9	4253495.39	2.44492E-05	0.000914164	5.63805E-05	0.000101465	0.001096459	0.69845	26.72152	0.91449	1.64576
634871.6	4253471.19	2.3398E-05	0.000900911	5.38232E-05	9.55397E-05	0.001073672	0.66842	26.33412	0.87301	1.54965
634874.3	4253446.99	2.24273E-05	0.000886472	5.15636E-05	9.02641E-05	0.001050727	0.64069	25.91206	0.83636	1.46408
634876.9	4253422.79	2.15263E-05	0.000870116	4.9465E-05	8.54281E-05	0.001026535	0.61495	25.43397	0.80232	1.38564
634879.6	4253398.59	2.06879E-05	0.000851224	4.75057E-05	8.09762E-05	0.001000394	0.591	24.88176	0.77054	1.31343
634882.2	4253374.38	1.99052E-05	0.000831224	4.56697E-05	7.68547E-05	0.001000334	0.56864	24.25016	0.74076	1.24658
634884.9	4253350.18	1.91747E-05	0.000805255	4.39903E-05	7.31488E-05	0.000941569	0.54777	23.53806	0.71352	1.18647
634887.5	4253325.98	1.84928E-05	0.000777928	4.25525E-05	6.99527E-05	0.000908926	0.52829	22.73926	0.6902	1.13463
634890.2	4253301.78	1.78522E-05	0.000745594	4.11882E-05	6.69663E-05	0.0008716	0.50999	21.79412	0.66807	1.08619
634892.8	4253277.58	1.72476E-05	0.000706482	3.98102E-05	6.40218E-05	0.000827561	0.49272	20.65085	0.64572	1.03843
634895.5	4253253.38	1.66757E-05	0.000658385	3.83071E-05	6.09286E-05	0.000774297	0.47638	19.24497	0.62134	0.98826
634898.1	4253229.18	1.61345E-05	0.000601247	3.67923E-05	5.78849E-05	0.000712059	0.46092	17.57478	0.59677	0.93889
634900.8	4253204.97	1.56266E-05	0.000538496	3.55901E-05	5.54428E-05	0.000645156	0.44641	15.74055	0.57727	0.89928
634903.4	4253180.77	1.51473E-05	0.000473139	3.45519E-05	5.33306E-05	0.000576169	0.43272	13.83013	0.56043	0.86502
634906.1	4253156.57	1.46926E-05	0.000412873	3.35112E-05	5.12597E-05	0.000512337	0.41973	12.06852	0.54355	0.83143
634908.8	4253132.37	1.426E-05	0.000364682	3.24428E-05	4.91839E-05	0.000460568	0.40737	10.65985	0.52622	0.79776
634911.4	4253108.17	1.3849E-05	0.000325195	3.14335E-05	4.72461E-05	0.000417723	0.39563	9.50562	0.50985	0.76633
634854	4253763.16	4.76386E-05	0.000855267	0.000104627	0.0002203	0.001227833	1.36091	24.99992	1.69705	3.57326
634856.6	4253703.10	4.42589E-05	0.00085089	9.85989E-05	0.0002203	0.001227633	1.26436	24.87198	1.59927	3.33638
634859.3	4253714.76	4.12817E-05	0.000846135	9.30644E-05	0.00019207	0.001172552	1.17931	24.73301	1.5095	3.11537
634861.9	4253690.56	3.86346E-05	0.000839781	8.75366E-05	0.000178701	0.001144654	1.10369	24.54727	1.41984	2.89853
634864.6	4253666.36	3.62826E-05	0.000834036	8.28294E-05	0.00016685	0.001119999	1.0365	24.37935	1.34349	2.7063
634867.2	4253642.16	3.41778E-05	0.000827961	7.84897E-05	0.000155999	0.001096627	0.97637	24.20177	1.2731	2.53029
634869.9	4253617.96	3.22823E-05	0.000821476	7.45353E-05	0.000145992	0.001074285	0.92222	24.0122	1.20896	2.36798
634872.5	4253593.75	3.05667E-05	0.000814311	7.08547E-05	0.000136728	0.001052461	0.87321	23.80277	1.14926	2.21773
634875.2	4253569.55	2.90093E-05	0.000806335	6.73861E-05	0.000128206	0.001030936	0.82872	23.56961	1.093	2.0795
634877.8	4253545.35	2.75888E-05	0.000797671	6.42462E-05	0.000120394	0.0010099	0.78814	23.31636	1.04207	1.95279
634880.5	4253521.15	2.62849E-05	0.000787031	6.11518E-05	0.000112861	0.000987329	0.75089	23.00535	0.99188	1.8306
634883.1	4253496.95	2.50852E-05	0.000774727	5.81598E-05	0.000105755	0.000963727	0.71662	22.6457	0.94335	1.71534
634885.8	4253472.75	2.39798E-05	0.000761033	5.53929E-05	9.92697E-05	0.000939675	0.68504	22.24542	0.89847	1.61015
634888.5	4253448.55	2.29636E-05	0.000746957	5.30575E-05	9.37222E-05	0.000935075	0.65601	21.83398	0.86059	1.52017
634891.1	4253446.33	2.29030E-03 2.20209E-05	0.000740937	5.08577E-05	8.8602E-05	0.000910701	0.62908	21.85538	0.82491	1.43712
	4253424.34	2.20209E-05 2.11468E-05	0.000731008	4.88565E-05		0.000892489				1.43712
634893.8					8.39891E-05		0.60411	20.8466	0.79245	
634896.4	4253375.94	2.0333E-05	0.000693138	4.70001E-05	7.97813E-05	0.000840253	0.58086	20.26082	0.76234	1.29405
634899.1	4253351.74	1.95723E-05	0.000669973	4.52393E-05	7.58411E-05	0.000810625	0.55913	19.58367	0.73378	1.23014
634901.7	4253327.54	1.88621E-05	0.00064372	4.36579E-05	7.23165E-05	0.000778557	0.53884	18.8163	0.70813	1.17297
634904.4	4253303.34	1.81952E-05	0.000613187	4.21351E-05	6.89866E-05	0.000742504	0.51979	17.92381	0.68343	1.11896
634907	4253279.14	1.75693E-05	0.000578066	4.07375E-05	6.59576E-05	0.000702331	0.50191	16.8972	0.66076	1.06983
634909.7	4253254.93	1.69781E-05	0.000536474	3.92683E-05	6.28873E-05	0.000655607	0.48502	15.68142	0.63693	1.02003
634912.3	4253230.73	1.6418E-05	0.000488116	3.76635E-05	5.96531E-05	0.00060185	0.46902	14.26789	0.6109	0.96757
634915	4253206.53	1.58933E-05	0.000438482	3.64236E-05	5.71093E-05	0.000547908	0.45403	12.81706	0.59079	0.92631
634917.6	4253182.33	1.53997E-05	0.000390971	3.53885E-05	5.49656E-05	0.000347308	0.43993	11.42831	0.574	0.89154
634920.3	4253152.53	1.49307E-05	0.000349565	3.4325E-05	5.28232E-05	0.000451644	0.42653	10.21799	0.55675	0.85679
634923	4253133.93	1.44847E-05	0.000316045	3.32079E-05	5.06401E-05	0.000414378	0.41379	9.23818	0.53863	0.82138
634925.6	4253109.73	1.40615E-05	0.000287165	3.21487E-05	4.85957E-05	0.000381971	0.4017	8.394	0.52145	0.78822
634868.2	4253764.72	4.95957E-05	0.000745403	0.000109291	0.000229342	0.001133631	1.41682	21.78855	1.77269	3.71991
634870.8	4253740.52	4.60277E-05	0.000741208	0.000102503	0.000214258	0.001103996	1.31489	21.66592	1.66259	3.47525
634873.5	4253716.32	4.2879E-05	0.000736467	9.65268E-05	0.000200038	0.001075911	1.22494	21.52733	1.56566	3.24461

6240764	4252602.42	4 000475 05	0.000704404	0.000.005.05	0.000405550	0.004040505	4.44500	24 27447	4 47227	2 22527
634876.1	4253692.12	4.00817E-05	0.000731124	9.08369E-05	0.000186552	0.001048595	1.14503	21.37117	1.47337	3.02587
634878.8	4253667.92	3.75918E-05	0.000725671	8.59145E-05	0.000174245	0.001023422	1.0739	21.21178	1.39353	2.82624
634881.4	4253643.71	3.53616E-05	0.000719703	8.13288E-05	0.000162854	0.000999248	1.01019	21.03732	1.31915	2.64149
634884.1	4253619.51	3.33548E-05	0.00071324	7.71605E-05	0.000152315	0.000976071	0.95286	20.84841	1.25154	2.47055
634886.7	4253595.31	3.15412E-05	0.000706045	7.32739E-05	0.000142529	0.00095339	0.90105	20.63809	1.1885	2.31182
634889.4	4253571.11	2.9896E-05	0.000698061	6.96204E-05	0.00013352	0.000931097	0.85405	20.40471	1.12924	2.16569
634892	4253546.91	2.83967E-05	0.000689269	6.62838E-05	0.000125207	0.000909157	0.81122	20.14773	1.07512	2.03086
634894.7										
	4253522.71	2.70245E-05	0.00067889	6.3052E-05	0.00011731	0.000886276	0.77202	19.84432	1.0227	1.90277
634897.3	4253498.51	2.57622E-05	0.000666826	5.98806E-05	0.000109802	0.00086227	0.73596	19.49169	0.97126	1.78098
634900	4253474.3	2.46011E-05	0.000653508	5.70088E-05	0.00010296	0.000838078	0.70279	19.10241	0.92468	1.67
634902.7	4253450.1	2.35359E-05	0.000639827	5.45618E-05	9.71359E-05	0.00081506	0.67236	18.70249	0.88499	1.57554
634905.3	4253425.9	2.25498E-05	0.000624511	5.22807E-05	9.17826E-05	0.000791124	0.64419	18.25479	0.84799	1.48871
634908	4253401.7	2.16373E-05	0.000607678	5.02233E-05	8.70175E-05	0.000766557	0.61812	17.76278	0.81462	1.41142
634910.6	4253377.5	2.07887E-05	0.000589004	4.83768E-05	8.27265E-05	0.000740896	0.59388	17.21691	0.78467	1.34182
634913.3	4253353.3	1.99955E-05	0.00056721	4.65402E-05	7.85742E-05	0.000712319	0.57122	16.57985	0.75488	1.27447
634915.9	4253329.1	1.92541E-05	0.000542194	4.47763E-05	7.46673E-05	0.000680891	0.55004	15.84862	0.72627	1.2111
634918.6	4253304.89	1.85596E-05	0.000513848	4.31074E-05	7.10372E-05	0.000646552	0.5302	15.02006	0.6992	1.15222
634921.2	4253280.69	1.79096E-05	0.000482399	4.16327E-05	6.78251E-05	0.000609766	0.51163	14.10079	0.67528	1.10012
634923.9	4253256.49	1.72977E-05	0.000446805	4.01579E-05	6.46993E-05	0.00056896	0.49415	13.06035	0.65136	1.04942
634926.5	4253232.29	1.67184E-05	0.000407047	3.85618E-05	6.14502E-05	0.000523777	0.4776	11.89821	0.62547	0.99672
634929.2	4253208.09	1.61758E-05	0.000368287	3.72763E-05	5.87949E-05	0.000480534	0.4621	10.76523	0.60462	0.95365
634931.8	4253183.89	1.56651E-05	0.000333374	3.61992E-05	5.65433E-05	0.000441782	0.44751	9.74471	0.58715	0.91713
634934.5	4253159.69	1.51802E-05	0.000303725	3.50371E-05	5.42104E-05	0.000408153	0.43366	8.87806	0.5683	0.87929
634937.2	4253135.48	1.47206E-05	0.00027928	3.39224E-05	5.20045E-05	0.000379928	0.42053	8.16352	0.55022	0.84351
634939.8	4253111.28	1.42848E-05	0.000257344	3.28638E-05	4.99379E-05	0.000354431	0.40808	7.52231	0.53305	0.80999
634882.4	4253766.28	5.15115E-05	0.000657784	0.00011377	0.000236657	0.001059722	1.47155	19.2274	1.84534	3.83856
634885	4253742.08	4.77898E-05	0.000653707	0.000106564	0.000221448	0.001029509	1.36523	19.10821	1.72847	3.59188
634887.7	4253717.88	4.44927E-05	0.000649158	0.000100205	0.000207007	0.001000862	1.27104	18.97525	1.62532	3.35764
634890.3	4253693.67	4.15572E-05	0.000644239	9.42487E-05	0.000193398	0.000973443	1.18718	18.83145	1.52871	3.13691
634893	4253669.47	3.8936E-05	0.000638814	8.89651E-05	0.00018064	0.000947355	1.1123	18.67288	1.44301	2.92997
634895.6	4253645.27	3.65868E-05	0.000632864	8.40532E-05	0.000168769	0.000922272	1.04519	18.49896	1.36334	2.73742
634898.3	4253621.07	3.44708E-05	0.000626389	7.96069E-05	0.000157703	0.000898169	0.98474	18.30969	1.29122	2.55793
		3.25591E-05								
634900.9	4253596.87		0.000619169	7.5499E-05	0.00014748	0.000874707	0.93013	18.09864	1.22459	2.39212
634903.6	4253572.67	3.0825E-05	0.000611283	7.16371E-05	0.000138054	0.000851799	0.88059	17.86813	1.16195	2.23923
634906.2	4253548.47	2.92466E-05	0.000602569	6.81352E-05	0.00012938	0.000829331	0.8355	17.61342	1.10515	2.09854
634908.9	4253524.26	2.78044E-05	0.000592739	6.4888E-05	0.000121404	0.000806836	0.7943	17.3261	1.05248	1.96917
634911.5	4253500.06	2.64795E-05	0.000581219	6.1658E-05	0.000113704	0.00078306	0.75645	16.98934	1.00009	1.84427
634914.2	4253475.86	2.52617E-05	0.000568403	5.86543E-05	0.000106595	0.000758914	0.72166	16.61474	0.95137	1.72896
634916.9	4253451.66	2.41443E-05	0.000555227	5.60969E-05	0.000100498	0.000735966	0.68974	16.22958	0.90989	1.63007
634919.5	4253427.46	2.31117E-05	0.000540533	5.36987E-05	9.48948E-05	0.000712238	0.66024	15.80007	0.87099	1.53919
634922.2	4253403.26	2.21567E-05	0.00052446	5.15723E-05	8.98991E-05	0.000688088	0.63296	15.33026	0.8365	1.45816
634924.8	4253379.06	2.12697E-05	0.000506643	4.96154E-05	8.53473E-05	0.000662876	0.60762	14.80947	0.80476	1.38433
634927.5	4253354.85	2.04425E-05	0.000486533	4.77344E-05	8.10619E-05	0.000635771	0.58399	14.22162	0.77425	1.31482
634930.1	4253330.65	1.96689E-05	0.000463118	4.58232E-05	7.68609E-05	0.000605471	0.56189	13.53721	0.74325	1.24668
634932.8	4253306.45	1.89457E-05	0.000437423	4.40809E-05	7.30471E-05	0.000573497	0.54123	12.78613	0.71499	1.18482
634935.4	4253282.25	1.82705E-05	0.000409638	4.25488E-05	6.96981E-05	0.000540155	0.52194	11.97394	0.69014	1.1305
634938.1	4253258.05	1.76351E-05	0.000379438	4.10254E-05	6.64527E-05	0.000504551	0.50379	11.09118	0.66543	1.07786
634940.7	4253233.85	1.70359E-05	0.000347388	3.94878E-05	6.32714E-05	0.000467183	0.48667	10.15435	0.64049	1.02626
634943.4	4253209.65	1.64737E-05	0.000317247	3.81548E-05	6.05051E-05	0.000432381	0.47061	9.27332	0.61887	0.98139
634946	4253185.44	1.59441E-05	0.000291027	3.69502E-05	5.80106E-05	0.000401932	0.45548	8.50689	0.59933	0.94093
634948.7	4253161.24	1.54428E-05	0.0002689	3.57381E-05	5.5568E-05	0.000375649	0.44116	7.86009	0.57967	0.90131
634951.4	4253137.04	1.49681E-05	0.000250222	3.45889E-05	5.32825E-05	0.000353061	0.4276	7.31412	0.56103	0.86424
634954	4253112.84	1.45183E-05	0.000233005	3.34982E-05	5.11419E-05	0.000332164	0.41475	6.81087	0.54334	0.82952
634932.1	4253771.73	5.69639E-05	0.000452617	0.000127143	0.000244339	0.000881063	1.62731	13.23026	2.06225	3.96317
634934.7	4253747.53	5.30941E-05	0.000448925	0.000119039	0.000231523	0.000852581	1.51676	13.12234	1.9308	3.75529
634937.4	4253723.33	4.95803E-05	0.000444794	0.000111528	0.000218608	0.000824511	1.41638	13.00158	1.80898	3.54582
634940	4253699.13	4.63886E-05	0.000444754	0.000111328	0.000215668	0.000797315	1.3252	12.86919	1.6995	3.33942
634942.7	4253674.92	4.34877E-05	0.000435254	9.85915E-05	0.000193548	0.000770881	1.24233	12.72271	1.59915	3.13934
634945.3	4253650.72	4.08501E-05	0.000429787	9.2888E-05	0.00018175	0.000745275	1.16698	12.56292	1.50664	2.94797
634948	4253626.52	3.84491E-05	0.0004238	8.76161E-05	0.00017057	0.000720436	1.09839	12.38792	1.42113	2.76664
634950.6	4253602.32	3.62609E-05	0.000417222	8.29071E-05	0.000160058	0.000696448	1.03588	12.19562	1.34475	2.59614
634953.3	4253578.12	3.42621E-05	0.000410064	7.84743E-05	0.000150228	0.000673028	0.97878	11.98639	1.27285	2.43669
634955.9	4253553.92	3.24352E-05	0.000402213	7.45027E-05	0.000141077	0.000650229	0.92659	11.75692	1.20843	2.28827
634958.6	4253529.72	3.07602E-05	0.000393664	7.07875E-05	0.000132585	0.000627796	0.87874	11.50701	1.14817	2.15052
634961.2	4253505.51	2.92221E-05	0.000384265	6.74059E-05	0.000124716	0.000605609	0.8348	11.23229	1.09332	2.02289
634963.9	4253481.31	2.78069E-05	0.000373827	6.42067E-05	0.000117342	0.000583183	0.79437	10.92718	1.04143	1.90329
	4253457.11	2.78009E-03 2.65029E-05	0.000373827	6.12344E-05	0.000117342	0.000560962		10.6004		
634966.6							0.75712		0.99322	1.79355
634969.2	4253432.91	2.53023E-05	0.000350736	5.8629E-05	0.00010452	0.000539187	0.72282	10.2522	0.95096	1.69531
634971.9	4253408.71	2.41895E-05	0.000337782	5.61272E-05	9.88098E-05	0.000516909	0.69103	9.87357	0.91038	1.60269
634974.5	4253384.51	2.31547E-05	0.000323316	5.3695E-05	9.33954E-05	0.000493561	0.66147	9.45071	0.87093	1.51487
634977.2	4253360.31	2.21984E-05	0.000308444	5.15914E-05	8.86328E-05	0.000470867	0.63415	9.01599	0.83681	1.43762
634979.8	4253336.1	2.13051E-05	0.000292383	4.95445E-05	8.41075E-05	0.000447341	0.60863	8.54653	0.80361	1.36422
634982.5	4253311.9	2.04726E-05	0.000275703	4.76265E-05	7.99164E-05	0.000423718	0.58485	8.05894	0.7725	1.29624
634985.1	4253287.7	1.96952E-05	0.000258865	4.58226E-05	7.60304E-05	0.000400413	0.56264	7.56677	0.74324	1.23321
634987.8	4253263.5	1.89674E-05	0.000230003	4.41308E-05	7.24213E-05	0.000378095	0.54185	7.09062	0.7158	1.17467
	4253239.3						0.52236			
634990.4		1.82852E-05	0.000227532	4.2539E-05	6.90655E-05	0.000357422		6.6509	0.68998	1.12024
634993.1	4253215.1	1.76446E-05	0.000214295	4.10359E-05	6.59398E-05	0.000338915	0.50406	6.26396	0.6656	1.06954
634995.7	4253190.9	1.70422E-05	0.000202929	3.96154E-05	6.30248E-05	0.000322612	0.48685	5.93174	0.64256	1.02226
634998.4	4253166.69	1.64744E-05	0.000193026	3.82738E-05	6.03029E-05	0.000308078	0.47063	5.64227	0.6208	0.97811
635001.1	4253142.49	1.59392E-05	0.000183997	3.70032E-05	5.77572E-05	0.000294696	0.45534	5.37833	0.60019	0.93682
635003.7	4253118.29	1.54337E-05	0.000175209	3.57997E-05	5.53744E-05	0.000281817	0.4409	5.12145	0.58067	0.89817
634981.8	4253777.18	5.94699E-05	0.000330991	0.000135078	0.000231675	0.000757214	1.6989	9.67505	2.19096	3.75776
634984.4	4253777.18	5.59757E-05	0.000330391	0.000133078	0.000231073	0.000737214	1.59908	9.58098	2.19090	3.6159
634987.1	4253728.78	5.2715E-05	0.0003242	0.000119202	0.000213482	0.000709599	1.50593	9.47656	1.93345	3.46267
634989.7	4253704.58	4.96773E-05	0.000320249	0.000112086	0.000203631	0.000685644	1.41915	9.36107	1.81803	3.30289
634992.4	4253680.37	4.68503E-05	0.000315885	0.000105546	0.000193624	0.000661905	1.33839	9.23349	1.71195	3.14058
634995	4253656.17	4.42238E-05	0.000311126	9.96482E-05	0.000183673	0.000638672	1.26336	9.0944	1.61629	2.97917

634997.7	4253631.97	4.17861E-05	0.000305916	9.41642E-05	0.000173924	0.00061579	1.19372	8.94209	1.52734	2.82104
635000.3	4253607.77	3.95237E-05	0.000300268	8.91433E-05	0.000164492	0.000593427	1.12909	8.777	1.4459	2.66805
635003	4253583.57	3.74255E-05	0.00029414	8.44552E-05	0.000155452	0.000571473	1.06915	8.59787	1.36986	2.52143
635005.6	4253559.37	3.548E-05	0.000287489	8.01543E-05	0.000146856	0.00054998	1.01357	8.40347	1.3001	2.382
635008.3	4253535.17	3.36751E-05	0.00028033	7.61956E-05	0.00013873	0.000528931	0.96201	8.1942	1.23589	2.2502
635011	4253510.96	3.20005E-05	0.000272606	7.25162E-05	0.000131082	0.000508204	0.91417	7.96842	1.17621	2.12614
635013.6	4253486.76	3.04463E-05	0.000264343	6.90951E-05	0.000123913	0.000487798	0.86977	7.72689	1.12072	2.00987
635016.3	4253462.56	2.9003E-05	0.000255526	6.59065E-05	0.00011721	0.000467645	0.82854	7.46916	1.069	1.90114
635018.9	4253438.36	2.76623E-05	0.000246162	6.29823E-05	0.000110953	0.00044776	0.79024	7.19545	1.02157	1.79966
		2.64147E-05	0.00023634	6.02351E-05	0.00010512	0.00042811			0.97701	1.70504
635021.6	4253414.16						0.7546	6.90835		
635024.2	4253389.96	2.52533E-05	0.000226143	5.769E-05	9.96852E-05	0.000408771	0.72142	6.61028	0.93573	1.61689
635026.9	4253365.76	2.41713E-05	0.000215716	5.53152E-05	9.46242E-05	0.000389827	0.69051	6.3055	0.89721	1.5348
635029.5	4253341.55	2.3161E-05	0.000205313	5.30852E-05	8.99071E-05	0.000371466	0.66165	6.00141	0.86104	1.45829
635032.2	4253317.35	2.2218E-05	0.000195191	5.10032E-05	8.5515E-05	0.000353927	0.63471	5.70554	0.82727	1.38705
635034.8	4253293.15	2.13362E-05	0.000185674	4.9047E-05	8.14195E-05	0.000337476	0.60952	5.42734	0.79554	1.32062
635037.5	4253268.95	2.05104E-05	0.000176993	4.72023E-05	7.75989E-05	0.000322304	0.58593	5.17359	0.76562	1.25865
635040.1	4253244.75	1.97365E-05	0.00016926	4.54711E-05	7.40329E-05	0.0003085	0.56382	4.94756	0.73754	1.20081
635042.8	4253220.55	1.90101E-05	0.000162464	4.38386E-05	7.06993E-05	0.000296012	0.54307	4.7489	0.71106	1.14674
635045.5	4253196.35	1.83275E-05	0.000156403	4.22954E-05	6.75822E-05	0.000284609	0.52357	4.57176	0.68603	1.09618
635048.1	4253172.14	1.76848E-05	0.000150852	4.08343E-05	6.46617E-05	0.000274033	0.50521	4.40949	0.66233	1.04881
635050.8	4253147.94	1.708E-05	0.000145545	3.94526E-05	6.19256E-05	0.000264003	0.48793	4.25436	0.63992	1.00443
635053.4	4253123.74	1.65094E-05	0.000140268	3.81431E-05	5.9359E-05	0.00025428	0.47163	4.10012	0.61868	0.9628
635031.5	4253782.63	5.93222E-05	0.000250847	0.00013585	0.000209268	0.000655287	1.69468	7.33239	2.20348	3.39432
635034.1	4253758.43	5.63902E-05	0.000248176	0.000128387	0.000204221	0.000637174	1.61092	7.25432	2.08243	3.31245
635036.8	4253734.23	5.35964E-05	0.000245156	0.000121423	0.000198005	0.00061818	1.53111	7.16604	1.96948	3.21163
635039.4	4253710.03	5.0942E-05	0.000241773	0.000114984	0.000191127	0.000598826	1.45528	7.06716	1.86503	3.10007
635042.1	4253685.82	4.84244E-05	0.000238081	0.000108815	0.000183817	0.000579138	1.38336	6.95924	1.76498	2.98151
635044.7	4253661.62	4.60417E-05	0.000234057	0.000103146	0.000176262	0.000559507	1.31529	6.84162	1.67303	2.85896
635047.4	4253637.42	4.3788E-05	0.00022968	9.78017E-05	0.00016861	0.000539879	1.25091	6.71366	1.58634	2.73485
635050	4253613.22	4.1659E-05	0.000224965	9.28073E-05	0.000160984	0.000520416	1.19009	6.57585	1.50533	2.61116
635052.7	4253589.02	3.96498E-05	0.000219883	8.82505E-05	0.000153478	0.00050126	1.13269	6.42729	1.43142	2.4894
635055.3	4253564.82	3.77556E-05	0.000214456	8.3954E-05	0.000146164	0.00048233	1.07858	6.26866	1.36173	2.37078
635058	4253540.62	3.59714E-05	0.000208678	7.99885E-05	0.000139097	0.000463734	1.02761	6.09977	1.29741	2.25614
635060.7	4253516.41	3.42919E-05	0.000202552	7.62505E-05	0.000132309	0.000445403	0.97963	5.9207	1.23678	2.14604
635063.3	4253492.21	3.27121E-05	0.000196132	7.27795E-05	0.00012583	0.000427454	0.9345	5.73306	1.18048	2.04096
635066	4253468.01	3.12276E-05	0.000189442	6.95526E-05	0.000119671	0.000409893	0.89209	5.5375	1.12814	1.94106
635068.6	4253443.81	2.98316E-05	0.000182573	6.65261E-05	0.000113836	0.000392767	0.85221	5.33672	1.07905	1.84642
635071.3	4253419.61	2.85203E-05	0.00017561	6.36894E-05	0.000108323	0.000376143	0.81475	5.13319	1.03304	1.75699
635073.9	4253395.41	2.72881E-05	0.000168666	6.10495E-05	0.000103123	0.000360126	0.77955	4.93019	0.99022	1.67265
635076.6	4253371.21	2.61301E-05	0.000161899	5.85606E-05	9.82253E-05	0.000344815	0.74647	4.73241	0.94985	1.59321
635079.2	4253347	2.50415E-05	0.000155447	5.62276E-05	9.36155E-05	0.000330332	0.71537	4.5438	0.91201	1.51844
635081.9	4253322.8	2.40186E-05	0.000149432	5.40285E-05	8.92826E-05	0.000316762	0.68615	4.36799	0.87634	1.44816
635084.5	4253298.6	2.30567E-05	0.00014395	5.19693E-05	8.52092E-05	0.000304185	0.65867	4.20774	0.84294	1.38209
635087.2	4253274.4	2.21518E-05	0.00013901	5.0026E-05	8.13806E-05	0.000292568	0.63282	4.06334	0.81142	1.31999
635089.8	4253250.2	2.13002E-05	0.000134589	4.81888E-05	7.77807E-05	0.000281859	0.60849	3.93411	0.78162	1.2616
635092.5	4253226	2.04978E-05	0.000130588		7.4396E-05	0.000271937	0.58557	3.81715	0.75351	1.2067
				4.64557E-05						
635095.2	4253201.8	1.97421E-05	0.000126886	4.48189E-05	7.12123E-05	0.000262659	0.56398	3.70894	0.72696	1.15506
635097.8	4253177.59	1.90287E-05	0.000123376	4.32646E-05	6.82135E-05	0.000253883	0.5436	3.60635	0.70175	1.10642
635100.5	4253153.39	1.83559E-05	0.00011993	4.17942E-05	6.53917E-05	0.000245471	0.52438	3.50561	0.6779	1.06065
635103.1	4253129.19	1.77206E-05	0.000116477	4.03978E-05	6.2732E-05	0.000237327	0.50623	3.40469	0.65525	1.01751
635081.2	4253788.08	5.75226E-05	0.000195106	0.000131796	0.000183459	0.000567884	1.64327	5.70307	2.13773	2.97569
635083.8	4253763.88	5.51289E-05	0.00019273	0.000125543	0.000180834	0.000554236	1.57489	5.63361	2.0363	2.93312
635086.5	4253739.68	5.28137E-05	0.000190115	0.000119587	0.000177329	0.000539844	1.50875	5.55716	1.93969	2.87627
635089.1	4253715.48	5.05807E-05	0.000187245	0.000113826	0.000173087	0.000524739	1.44496	5.47329	1.84626	2.80746
635091.8	4253691.27	4.84328E-05	0.000184137	0.000108469	0.000168267	0.000509306	1.3836	5.38242	1.75936	2.72929
635094.4	4253667.07	4.63721E-05	0.000180768	0.000103328	0.00016302	0.000493488	1.32473	5.28396	1.67597	2.64417
635097.1	4253642.87	4.43971E-05	0.000177159	9.85329E-05	0.000157486	0.000477574	1.26831	5.17845	1.5982	2.55441
635099.7	4253618.67	4.25072E-05	0.000173303	9.39744E-05	0.000151781	0.000461566	1.21432	5.06575	1.52426	2.46188
635102.4	4253594.47	4.06999E-05	0.000169203	8.97111E-05	0.000146	0.000445614	1.16269	4.94591	1.45511	2.36811
635105	4253570.27	3.89731E-05	0.000164892	8.56611E-05	0.000140227	0.000429753	1.11336	4.81988	1.38942	2.27447
635107.7	4253546.07	3.73251E-05	0.000160377	8.19188E-05	0.000134518	0.000414139	1.06628	4.6879	1.32872	2.18188
635110.4	4253521.86	3.57523E-05	0.000155709	7.83418E-05	0.000128923	0.000398726	1.02135	4.55145	1.2707	2.09113
635113	4253497.66	3.42541E-05	0.000150929	7.50094E-05	0.000123479	0.000383672	0.97855	4.41174	1.21665	2.00283
635115.7	4253473.46	3.28276E-05	0.00014609	7.18584E-05	0.000118209	0.000368985	0.9378	4.2703	1.16554	1.91734
635118.3	4253449.26	3.14701E-05	0.000141277	6.88861E-05	0.000113132	0.000354765	0.89902	4.12961	1.11733	1.83499
635121	4253425.06	3.01799E-05	0.000136557	6.61118E-05	0.000108257	0.000341106	0.86216	3.99163	1.07233	1.75593
635123.6	4253400.86	2.89536E-05	0.000132023	6.34755E-05	0.000103593	0.000328046	0.82713	3.85912	1.02957	1.68028
635126.3	4253376.66	2.7789E-05	0.000132023	6.09921E-05	9.91415E-05	0.000315666	0.79386	3.73401	0.98929	1.60807
635128.9	4253352.45	2.66836E-05	0.000123763	5.86531E-05	9.48985E-05	0.000303998	0.76228	3.61765	0.95135	1.53925
635131.6	4253328.25	2.56348E-05	0.00012012	5.64373E-05	9.0864E-05	0.000293056	0.73232	3.51118	0.91541	1.47381
635134.2	4253304.05	2.46403E-05	0.00011681	5.43411E-05	8.70317E-05	0.000282823	0.70391	3.41441	0.88141	1.41165
635136.9	4253279.85	2.36973E-05	0.0001138	5.23614E-05	8.33936E-05	0.000273252	0.67697	3.32643	0.8493	1.35264
635139.5	4253255.65	2.28029E-05	0.000111047	5.04823E-05	7.99423E-05	0.000264274	0.65142	3.24596	0.81882	1.29666
635142.2	4253231.45	2.19555E-05	0.000108483	4.87011E-05	7.66697E-05	0.000255809	0.62721	3.17101	0.78993	1.24358
635144.9	4253207.25	2.11517E-05	0.000106054	4.70106E-05	7.35668E-05	0.000247784	0.60425	3.10003	0.76251	1.19325
635147.5	4253183.04	2.03893E-05	0.000103694	4.54052E-05	7.06247E-05	0.000240113	0.58247	3.03103	0.73647	1.14553
635150.2	4253158.84	1.96665E-05	0.00010134	4.3878E-05	6.78368E-05	0.000232721	0.56182	2.96221	0.7117	1.10031
635152.8	4253134.64	1.89811E-05	9.8966E-05	4.24274E-05	6.51931E-05	0.000225568	0.54224	2.89283	0.68817	1.05743
635180.6	4253798.98	5.16011E-05	0.000124581	0.000114585	0.000136931	0.000427699	1.47411	3.64158	1.85857	2.22102
635183.2	4253774.78	5.00823E-05	0.000122775	0.000110826	0.000136481	0.000420164	1.43072	3.58879	1.79759	2.21371
635185.9	4253750.58	4.8576E-05	0.000120837	0.000107143	0.000135585	0.000412142	1.38769	3.53213	1.73786	2.19919
635188.5	4253726.38	4.70873E-05	0.000118782	0.000103545	0.000134278	0.000403693	1.34516	3.47206	1.6795	2.17799
635191.2	4253702.18	4.56188E-05	0.000116608	0.000100014	0.000132587	0.000394827	1.30321	3.40851	1.62222	2.15055
635193.8	4253677.97	4.41748E-05	0.000114335	9.65138E-05	0.000130552	0.000385576	1.26196	3.34209	1.56545	2.11755
635196.5										
03.11.70	4253653.77	4.27596F-05	0.000111976	9.31494F-05	0.000128215	0.0003761	1.22153	3.2/311	1.51088	2.07964
	4253653.77	4.27596E-05	0.000111976	9.31494E-05	0.000128215	0.0003761	1.22153	3.27311	1.51088	2.07964
635199.1	4253629.57	4.13758E-05	0.000109542	8.98745E-05	0.000125616	0.000366408	1.182	3.20198	1.45776	2.03748

635204.5	4253581.17	3.8713E-05	0.000104566	8.3613E-05	0.000119823	0.000346716	1.10593	3.05653	1.3562	1.94353
635207.1	4253556.97	3.74367E-05	0.000102079	8.0642E-05	0.000116714	0.000336872	1.06947	2.98382	1.30801	1.8931
635209.8	4253532.77	3.61979E-05	9.96296E-05	7.78011E-05	0.000113514	0.000327143	1.03408	2.91223	1.26193	1.8412
635212.4	4253508.56	3.49965E-05	9.72462E-05	7.50575E-05	0.000110255	0.000317555	0.99976	2.84256	1.21743	1.78833
635215.1	4253484.36	3.38337E-05	9.4966E-05	7.24385E-05	0.000106974	0.000308212	0.96654	2.77591	1.17495	1.73511
635217.7	4253460.16	3.27079E-05	9.28043E-05	6.9917E-05	0.000103691	0.00029912	0.93438	2.71272	1.13405	1.68186
635220.4	4253435.96	3.16186E-05	9.07838E-05	6.75082E-05	0.000100431	0.000290342	0.90326	2.65366	1.09498	1.62899
635223	4253411.76	3.05656E-05	8.89087E-05	6.51938E-05	9.72111E-05	0.000281879	0.87318	2.59885	1.05744	1.57676
635225.7	4253387.56	2.95477E-05	8.71742E-05	6.29786E-05	9.40446E-05	0.000273745	0.8441	2.54815	1.02151	1.5254
635228.3	4253363.36	2.8564E-05	8.5582E-05	6.08565E-05	9.09435E-05	0.000265946	0.816	2.50161	0.98709	1.4751
635231	4253339.15	2.76137E-05	8.41157E-05	5.88226E-05	8.79158E-05	0.000258468	0.78885	2.45875	0.9541	1.42599
635233.6	4253314.95	2.66972E-05	8.27531E-05	5.6875E-05	8.49682E-05	0.000251294	0.76267	2.41892	0.92251	1.37818
635236.3	4253290.75	2.58126E-05	8.14774E-05	5.50088E-05	8.21063E-05	0.000244405	0.7374	2.38163	0.89224	1.33176
635239	4253266.55	2.49603E-05	8.02619E-05		7.93325E-05	0.000237778		2.3461	0.86328	1.28677
				5.32233E-05			0.71305			
635241.6	4253242.35	2.41387E-05	7.90909E-05	5.15094E-05	7.66488E-05	0.000231388	0.68958	2.31187	0.83548	1.24324
635244.3	4253218.15	2.33472E-05	7.79397E-05	4.98676E-05	7.40557E-05	0.00022521	0.66697	2.27822	0.80885	1.20118
635246.9	4253193.95	2.25859E-05	7.67833E-05	4.82942E-05	7.15532E-05	0.000219217	0.64522	2.24442	0.78333	1.16059
635249.6	4253169.74	2.18529E-05	7.56109E-05	4.67843E-05	6.91401E-05	0.000213388	0.62428	2.21015	0.75884	1.12145
635252.2	4253145.54	2.11486E-05	7.44112E-05	4.53374E-05	6.68171E-05	0.000207714	0.60416	2.17508	0.73537	1.08377
635280	4253809.88	4.48963E-05	8.41363E-05	9.47802E-05	0.000102976	0.000326789	1.28257	2.45935	1.53733	1.67027
635282.6	4253785.68	4.39424E-05	8.28157E-05	9.28554E-05	0.000103142	0.000322756	1.25532	2.42075	1.50611	1.67296
635285.3	4253761.48	4.29861E-05	8.14586E-05	9.08751E-05	0.00010313	0.00031845	1.228	2.38108	1.47399	1.67276
635287.9	4253737.28	4.20269E-05	8.00679E-05	8.88325E-05	0.000102921	0.000313848	1.2006	2.34043	1.44086	1.66937
635290.6	4253713.08	4.10678E-05	7.86608E-05	8.67771E-05	0.000102511	0.000309017	1.1732	2.2993	1.40752	1.66273
635293.2	4253688.87	4.0109E-05	7.72462E-05	8.47061E-05	0.000101899	0.00030396	1.14581	2.25795	1.37393	1.65279
635295.9	4253664.67	3.9153E-05	7.58354E-05	8.26297E-05	0.000101087	0.000298705	1.1185	2.21671	1.34025	1.63963
635298.5	4253640.47	3.82023E-05	7.44471E-05	8.05551E-05	0.000100095	0.000293299	1.09134	2.17613	1.3066	1.62353
635301.2	4253616.27	3.72572E-05	7.3091E-05	7.84965E-05	9.893E-05	0.000287775	1.06434	2.13649	1.27321	1.60464
635303.9	4253592.07	3.63208E-05	7.17855E-05	7.64583E-05	9.76137E-05	0.000282178	1.03759	2.09833	1.24015	1.58329
635306.5	4253567.87	3.53949E-05	7.05395E-05	7.44404E-05	9.61612E-05	0.000276536	1.01114	2.06191	1.20742	1.55973
635309.2	4253543.67	3.44813E-05	6.936E-05	7.24583E-05	9.45878E-05	0.000270887	0.98504	2.02743	1.17527	1.53421
635311.8	4253519.46	3.35816E-05	6.82573E-05	7.0507E-05	9.29139E-05	0.00026526	0.95934	1.9952	1.14362	1.50706
635314.5	4253495.26	3.26978E-05	6.72293E-05	6.85853E-05	9.11531E-05	0.000259665	0.93409	1.96515	1.11245	1.4785
635317.1	4253471.06	3.18314E-05	6.62793E-05	6.67086E-05	8.93258E-05	0.000254145	0.90934	1.93738	1.08201	1.44886
635319.8	4253446.86	3.09825E-05	6.54028E-05	6.48689E-05	8.74429E-05	0.000248697	0.88509	1.91176	1.05217	1.41832
635322.4	4253422.66	3.01522E-05	6.45944E-05	6.30748E-05	8.55187E-05	0.00024334	0.86137	1.88813	1.02307	1.38711
635325.1	4253398.46	2.93408E-05	6.38506E-05	6.13226E-05	8.35662E-05	0.00023808	0.83819	1.86639	0.99465	1.35544
635327.7	4253374.26	2.85486E-05	6.31592E-05	5.96179E-05	8.15964E-05	0.000232922	0.81556	1.84618	0.967	1.32349
635330.4	4253350.05	2.77754E-05	6.25137E-05	5.79564E-05	7.96198E-05	0.000227865	0.79347	1.82731	0.94005	1.29143
635333	4253325.85	2.70214E-05	6.19027E-05	5.63436E-05	7.76451E-05	0.000222913	0.77193	1.80945	0.91389	1.2594
635335.7	4253301.65	2.62866E-05		5.47751E-05		0.000218056			0.88845	1.22752
			6.13146E-05		7.56796E-05		0.75094	1.79226		
635338.4	4253277.45	2.55704E-05	6.07436E-05	5.32523E-05	7.37308E-05	0.000213297	0.73048	1.77557	0.86375	1.19591
635341	4253253.25	2.48728E-05	6.01785E-05	5.17757E-05	7.18048E-05	0.000208632	0.71055	1.75905	0.8398	1.16467
635343.7	4253229.05	2.4193E-05	5.96065E-05	5.03423E-05	6.99034E-05	0.000204045	0.69113	1.74233	0.81655	1.13383
635346.3	4253204.85	2.35314E-05	5.90228E-05	4.89539E-05	6.80341E-05	0.000199542	0.67223	1.72527	0.79403	1.10351
635349	4253180.64	2.28866E-05	5.842E-05	4.76074E-05	6.61981E-05	0.000195112	0.65381	1.70765	0.77219	1.07373
635351.6	4253156.44	2.22596E-05	5.77981E-05	4.63035E-05	6.43997E-05	0.000190761	0.6359	1.68947	0.75104	1.04456
635379.4	4253820.78	3.85867E-05	5.96109E-05	7.73005E-05	7.94638E-05	0.000254962	1.10232	1.74246	1.25381	1.2889
635382	4253796.58	3.79846E-05	5.87142E-05	7.6433E-05	7.97067E-05	0.000252839	1.08512	1.71625	1.23974	1.29284
635384.7	4253772.38	3.73751E-05	5.78282E-05	7.54903E-05	7.98917E-05	0.000250585	1.06771	1.69035	1.22445	1.29584
635387.3	4253748.18	3.67601E-05	5.6963E-05	7.44792E-05	8.00064E-05	0.000248209	1.05014	1.66506	1.20805	1.2977
635390	4253723.98	3.61395E-05	5.61235E-05	7.3412E-05	8.00366E-05	0.000245712	1.03241	1.64052	1.19074	1.29819
635392.6	4253699.78	3.55136E-05	5.53137E-05	7.229E-05	7.99725E-05	0.00024309	1.01453	1.61685	1.17254	1.29715
635395.3	4253675.57	3.48835E-05	5.45422E-05	7.1121E-05	7.98103E-05	0.000240357	0.99653	1.5943	1.15358	1.29452
635398	4253651.37	3.42492E-05	5.38112E-05	6.99145E-05	7.95409E-05	0.000237516	0.97841	1.57293	1.13401	1.29015
635400.6	4253627.17	3.36128E-05	5.31263E-05	6.86796E-05	7.91679E-05	0.000234587	0.96023	1.55291	1.11398	1.2841
635403.3	4253602.97	3.29743E-05	5.24875E-05	6.74206E-05	7.86913E-05	0.000231574	0.94199	1.53424	1.09356	1.27637
635405.9	4253578.77	3.23344E-05	5.18936E-05	6.61463E-05	7.81118E-05	0.000228486	0.92371	1.51688	1.07289	1.26697
635408.6	4253554.57	3.16949E-05	5.13466E-05	6.48615E-05	7.74392E-05	0.000225342	0.90544	1.50089	1.05205	1.25606
635411.2	4253530.37	3.10557E-05	5.08413E-05	6.35692E-05	7.66759E-05	0.000222142	0.88718	1.48612	1.03109	1.24368
635413.9	4253506.16	3.04186E-05	5.03791E-05	6.22758E-05	7.58319E-05	0.000218905	0.86898	1.47261	1.01011	1.22999
635416.5	4253481.96	2.9785E-05	4.99563E-05	6.09835E-05	7.49133E-05	0.000215638	0.85088	1.46025	0.98915	1.21509
635419.2	4253457.76	2.91556E-05	4.95673E-05	5.9695E-05	7.39268E-05	0.000212345	0.8329	1.44888	0.96825	1.19909
635421.8	4253433.56	2.85318E-05	4.92105E-05	5.84151E-05	7.28818E-05	0.000209039	0.81508	1.43845	0.94749	1.18214
635424.5	4253409.36	2.79147E-05	4.8879E-05	5.71444E-05	7.17838E-05	0.000205722	0.79745	1.42876	0.92688	1.16433
635427.1	4253385.16	2.73053E-05	4.85694E-05	5.58873E-05	7.06426E-05	0.000202405	0.78004	1.41971	0.90649	1.14582
635429.8	4253360.96	2.67042E-05	4.82759E-05	5.46438E-05	6.94644E-05	0.000199088	0.76287	1.41113	0.88632	1.12671
635432.5	4253336.75	2.61119E-05	4.79922E-05	5.34163E-05	6.82536E-05	0.000195774	0.74595	1.40284	0.86641	1.10707
635435.1	4253312.55	2.55298E-05	4.77165E-05	5.22073E-05	6.70205E-05	0.000192474	0.72932	1.39478	0.8468	1.08707
635437.8	4253288.35	2.49575E-05	4.74421E-05	5.10174E-05	6.57684E-05	0.000189185	0.71297	1.38676	0.8275	1.06676
635440.4	4253264.15	2.43956E-05	4.71626E-05	4.98472E-05	6.4502E-05	0.000185908	0.69692	1.37859	0.80852	1.04622
635443.1	4253239.95	2.38443E-05	4.68759E-05	4.86987E-05	6.32277E-05	0.000182647	0.68117	1.37021	0.78989	1.02555
635445.7	4253215.75	2.33038E-05	4.65766E-05	4.75716E-05	6.1949E-05	0.000179401	0.66573	1.36146	0.77161	1.00481
635448.4	4253191.55	2.27739E-05	4.62649E-05	4.64674E-05	6.06703E-05	0.000175401	0.65059	1.35235	0.7537	0.98407
635451	4253167.34	2.22544E-05	4.59382E-05	4.53861E-05	5.93947E-05	0.000172973	0.63575	1.3428	0.73616	0.96338
635478.8	4253831.68	3.30629E-05	4.42024E-05	6.33855E-05	6.32073E-05	0.000203858	0.94452	1.29206	1.02811	1.02522
635481.4	4253807.48	3.26764E-05	4.36263E-05	6.30236E-05	6.33954E-05	0.000202722	0.93348	1.27522	1.02224	1.02827
635484.1	4253783.28	3.22844E-05	4.30806E-05	6.26111E-05	6.35742E-05	0.00020155	0.92228	1.25927	1.01555	1.03117
635486.7	4253759.08	3.18864E-05	4.25668E-05	6.21463E-05	6.37332E-05	0.000200333	0.91091	1.24425	1.00801	1.03375
635489.4	4253734.88	3.14824E-05	4.20858E-05	6.16296E-05	6.38639E-05	0.000199062	0.89937	1.23019	0.99963	1.03587
635492	4253710.68	3.10732E-05	4.16414E-05	6.10655E-05	6.39595E-05	0.00019774	0.88768	1.2172	0.99048	1.03742
635494.7	4253686.47	3.0658E-05	4.12315E-05	6.04552E-05	6.401E-05	0.000196355	0.87582	1.20522	0.98058	1.03824
635497.4	4253662.27	3.02383E-05	4.08572E-05	5.98029E-05	6.40113E-05	0.00019491	0.86383	1.19428	0.97	1.03826
635500	4253638.07	2.98141E-05	4.05168E-05	5.91117E-05	6.39589E-05	0.000193402	0.85171	1.18433	0.95879	1.03741
635502.7	4253613.87	2.93849E-05	4.02072E-05	5.83855E-05	6.38473E-05	0.000191825	0.83945	1.17528	0.94701	1.0356
635505.3	4253589.67	2.89522E-05	3.99284E-05	5.76296E-05	6.36771E-05	0.000190187	0.82709	1.16713	0.93475	1.03284
635508	4253565.47	2.8515E-05	3.9677E-05	5.68454E-05	6.34453E-05	0.000188483	0.8146	1.15978	0.92203	1.02908
-		-		-	-					

625540.6	4252544 27	2 007545 05	2.045265.05	F 6020F 0F	6 245275 05	0.000406724	0.00004	4 45222	0.00005	4 02425
635510.6	4253541.27	2.80754E-05	3.94526E-05	5.6039E-05	6.31537E-05	0.000186721	0.80204	1.15322	0.90895	1.02435
635513.3	4253517.06	2.76322E-05	3.92517E-05	5.52135E-05	6.28029E-05	0.0001849	0.78938	1.14735	0.89556	1.01866
635515.9	4253492.86	2.71873E-05	3.90711E-05	5.43713E-05	6.23929E-05	0.000183023	0.77667	1.14207	0.8819	1.01201
635518.6	4253468.66	2.67403E-05	3.89086E-05	5.35168E-05	6.19286E-05	0.000181094	0.7639	1.13732	0.86804	1.00448
635521.2	4253444.46	2.62922E-05	3.87601E-05	5.26518E-05	6.14108E-05	0.000179115	0.7511	1.13298	0.85401	0.99608
635523.9	4253420.26	2.58442E-05	3.86233E-05	5.17794E-05	6.08454E-05	0.000177092	0.7383	1.12898	0.83986	0.98691
635526.5	4253396.06	2.53957E-05	3.8495E-05	5.09021E-05	6.02344E-05	0.000175027	0.72549	1.12523	0.82563	0.977
635529.2	4253371.86	2.49484E-05	3.83708E-05	5.00217E-05	5.95809E-05	0.000172922	0.71271	1.1216	0.81135	0.9664
635531.9	4253347.65	2.45024E-05	3.82504E-05	4.91407E-05	5.88904E-05	0.000170784	0.69997	1.11808	0.79706	0.9552
635534.5	4253323.45	2.40589E-05	3.81286E-05	4.82603E-05	5.81654E-05	0.000168613	0.6873	1.11452	0.78278	0.94344
635537.2	4253299.25	2.36185E-05	3.80041E-05	4.7383E-05	5.74108E-05	0.000166416	0.67472	1.11088	0.76855	0.9312
635539.8	4253275.05	2.3182E-05	3.78737E-05	4.65094E-05	5.66302E-05	0.000164195	0.66225	1.10707	0.75438	0.91854
635542.5	4253250.85	2.27497E-05	3.77341E-05	4.56413E-05	5.58263E-05	0.000161951	0.6499	1.10299	0.7403	0.9055
635545.1	4253226.65	2.23223E-05	3.7586E-05	4.47806E-05	5.50038E-05	0.000159693	0.63769	1.09866	0.72634	0.89216
635547.8	4253202.45	2.19001E-05	3.74276E-05	4.39274E-05	5.4166E-05	0.000157421	0.62563	1.09403	0.7125	0.87857
635550.4	4253178.24	2.14829E-05	3.72572E-05	4.30827E-05	5.33133E-05	0.000155136	0.61371	1.08905	0.6988	0.86474
634857	4253087.86	1.29018E-05	0.000517921	2.83675E-05	4.14385E-05	0.000600629	0.36857	15.13913	0.46012	0.67213
634842.7	4253085.41	1.27292E-05	0.000476823	2.78016E-05	4.03632E-05	0.000557717	0.36364	13.93779	0.45094	0.65469
634828.3	4253082.97	1.25685E-05	0.000340458	2.73182E-05	3.94391E-05	0.000419784	0.35905	9.95179	0.4431	0.6397
634868.4	4253079.25	1.28815E-05	0.00041465	2.85697E-05	4.18164E-05	0.000497917	0.36799	12.12044	0.4634	0.67826
634845.1	4253071.33	1.25391E-05	0.000343269	2.73903E-05	3.96222E-05	0.000422821	0.35821	10.03394	0.44427	0.64267
634830.8	4253068.89	1.2383E-05	0.000269682	2.69464E-05	3.87732E-05	0.000347784	0.35375	7.88295	0.43707	0.6289
634870.8	4253065.17	1.26868E-05	0.000337195	2.80537E-05	4.08861E-05	0.000418821	0.36243	9.85639	0.45503	0.66317
634891.6	4253086.29	1.32424E-05	0.000357105	2.99427E-05	4.43565E-05	0.000444646	0.3783	10.43837	0.48567	0.71946
634847.5	4253057.25	1.23539E-05	0.000267481	2.6981E-05	3.88891E-05	0.000345705	0.35292	7.81861	0.43763	0.63078
634833.2	4253054.8	1.22017E-05	0.000221059	2.65759E-05	3.81123E-05	0.000297949	0.34857	6.46168	0.43106	0.61818
634888.2	4253060.22	1.27852E-05	0.000296677	2.84914E-05	4.1719E-05	0.000379672	0.36524	8.67202	0.46213	0.67668
634907.7	4253094.62	1.35662E-05	0.000319269	3.07861E-05	4.59884E-05	0.00040961	0.38755	9.33242	0.49935	0.74593
634864.2	4253045.61	1.23347E-05	0.000251675	2.71474E-05	3.92221E-05	0.00033038	0.35237	7.35661	0.44033	0.63618
634849.9	4253043.17	1.21751E-05	0.000219197	2.66721E-05	3.83269E-05	0.000296371	0.34781	6.40726	0.43262	0.62166
634835.6	4253040.72	1.2027E-05	0.000187327	2.63546E-05	3.77005E-05	0.000263409	0.34358	5.47568	0.42747	0.6115
634877.9	4253038.38	1.23567E-05	0.000239277	2.7407E-05	3.97054E-05	0.000318746	0.353	6.9942	0.44454	0.64402
634900.4	4253052.08	1.27856E-05	0.000259277	2.86326E-05	4.19909E-05	0.000314740	0.36525	7.62461	0.46442	0.68109
634915.1	4253071.62	1.32641E-05	0.00026902	3.00864E-05	4.46746E-05	0.000357045	0.37892	7.8636	0.488	0.72462
634852.3	4253029.08	1.20004E-05	0.000185614	2.63786E-05	3.77917E-05	0.000261785	0.34282	5.42561	0.42786	0.61298
634838	4253026.64	1.18565E-05	0.000162366	2.61357E-05	3.72936E-05	0.000237652	0.33871	4.74606	0.42392	0.6049
634879.8	4253024.02	1.21705E-05	0.000204665	2.7103E-05	3.91333E-05	0.000283072	0.34768	5.98247	0.43961	0.63474
634901.4	4253037.17	1.25699E-05	0.000231457	2.8222E-05	4.12103E-05	0.00031346	0.35909	6.76563	0.45776	0.66843
634926.4	4253062.51	1.32434E-05	0.00023887	3.01012E-05	4.47104E-05	0.000326925	0.37833	6.9823	0.48824	0.7252
634933.1	4253086.9	1.37454E-05	0.000251362	3.14409E-05	4.72276E-05	0.000343776	0.39267	7.34746	0.50997	0.76603
634854.7	4253015	1.18303E-05	0.000160947	2.60913E-05	3.72708E-05	0.000236139	0.33796	4.70456	0.4232	0.60453
634840.4	4253012.56	1.16885E-05	0.000142936	2.58083E-05	3.67122E-05	0.000230133	0.33391	4.17811	0.41861	0.59547
634881.9	4253009.76	1.19906E-05	0.000177776	2.67578E-05	3.85013E-05	0.000255025	0.34254	5.19648	0.43401	0.62449
634902.9	4253022.54	1.23686E-05	0.000205205	2.78348E-05	4.04828E-05	0.000285891	0.35334	5.99825	0.45148	0.65663
634923.9	4253035.33	1.27789E-05	0.000210764	2.89773E-05	4.26018E-05	0.000295122	0.36506	6.16076	0.47001	0.691
634937.7	4253053.57	1.32287E-05	0.000215163	3.01616E-05	4.48139E-05	0.000303367	0.37791	6.28932	0.48922	0.72688
634944.2	4253077.28	1.37174E-05	0.000225714	3.14273E-05	4.71949E-05	0.000318054	0.39187	6.59775	0.50975	0.7655
634857.1	4253000.92	1.1664E-05	0.000142071	2.58373E-05	3.6804E-05	0.000216377	0.33321	4.15282	0.41908	0.59696
634842.8	4252998.47	1.15243E-05	0.000127618	2.54951E-05	3.61567E-05	0.000200794	0.32922	3.73034	0.41353	0.58646
634891.6	4252961.27	1.14316E-05	0.000121609	2.55827E-05	3.6399E-05	0.000195022	0.32657	3.5547	0.41495	0.59039
634903.5	4252968.46	1.16244E-05	0.000133892	2.61184E-05	3.73657E-05	0.000209001	0.33208	3.91374	0.42364	0.60607
634915.3	4252975.65	1.18257E-05	0.00014456	2.66758E-05	3.83749E-05	0.000221436	0.33783	4.22556	0.43268	0.62244
634927.1	4252982.84	1.20358E-05	0.00014430	2.72547E-05	3.9428E-05	0.000221430	0.34383	4.45599	0.44207	0.63952
634938.9	4252990.03	1.22552E-05	0.000157149	2.7825E-05	4.04754E-05	0.000237704	0.3501	4.59354	0.45132	0.65651
634950.7	4252997.22	1.24849E-05	0.000158959	2.8423E-05	4.15741E-05	0.000241441	0.35666	4.64646	0.46102	0.67433
634962.5	4253004.41	1.27257E-05	0.000158514	2.90673E-05	4.27523E-05	0.000243059	0.36354	4.63344	0.47147	0.69344
634978	4253024.94	1.32434E-05	0.000161171	3.04187E-05	4.52282E-05	0.000250062	0.37833	4.71113	0.49339	0.7336
634981.7	4253038.28	1.35196E-05	0.000165112	3.11271E-05	4.65383E-05	0.000256297	0.38622	4.82632	0.50488	0.75485
634985.4	4253051.61	1.38067E-05	0.000168297	3.1854E-05	4.78916E-05	0.000261849	0.39442	4.91942	0.51667	0.7768
634989	4253064.95	1.41056E-05	0.000170816	3.25907E-05	4.92751E-05	0.000266787	0.40296	4.99304	0.52862	0.79924
634992.7	4253078.28	1.44171E-05	0.000172707	3.33521E-05	5.07135E-05	0.000271189	0.41186	5.04831	0.54097	0.82257
634996.4		1.47416E-05	0.000174017	3.41407E-05	5.22085E-05	0.000275108	0.42113	5.08661	0.55376	0.84682
635000	4253104.96	1.50801E-05	0.000174822	3.49557E-05	5.37616E-05	0.00027862	0.4308	5.11015	0.56698	0.87201
634879.8	4252954.08	1.12471E-05	0.000174022	2.50685E-05	3.54761E-05	0.000181053	0.3213	3.19378	0.40661	0.57542
634865.5	4252951.63	1.11092E-05	0.000103202	2.46542E-05	3.47294E-05	0.000131033	0.31736	2.92917	0.39989	0.56331
634851.2	4252949.19	1.09786E-05	9.25165E-05	2.42572E-05	3.40167E-05	0.000161769	0.31363	2.70431	0.39345	0.55175
634899.7	4252911.76	1.08897E-05	9.0143E-05	2.43015E-05	3.41684E-05	0.000159503	0.31109	2.63493	0.39417	0.55421
634922.6	4252925.71	1.12408E-05	0.000106054	2.52732E-05	3.5891E-05	0.000178459	0.32112	3.10003	0.40993	0.58215
634945.5	4252939.66	1.16213E-05	0.000119198	2.63194E-05	3.77553E-05	0.000194894	0.33199	3.48421	0.4269	0.61239
634968.4	4252953.6	1.20344E-05	0.000126459	2.74384E-05	3.97584E-05	0.00020569	0.34379	3.69647	0.44505	0.64488
634991.4	4252967.55	1.24852E-05	0.000128122	2.86302E-05	4.18891E-05	0.000211127	0.35667	3.74508	0.46438	0.67944
635017.8	4252994.43	1.32396E-05	0.000128905	3.05303E-05	4.52917E-05	0.000217967	0.37822	3.76797	0.4952	0.73463
635024.9	4253020.29	1.37933E-05	0.000133627	3.18718E-05	4.7743E-05	0.000227035	0.39404	3.90598	0.51696	0.77439
635032.1	4253046.15	1.43923E-05	0.000136942	3.32985E-05	5.03682E-05	0.000235001	0.41115	4.00289	0.5401	0.81697
635039.2	4253072.02	1.50413E-05	0.000130342	3.48164E-05	5.31746E-05	0.000233001	0.42969	4.06283	0.56472	0.86249
		1.57452E-05				0.00024208				
635046.3	4253097.88		0.000140085	3.64292E-05	5.61697E-05		0.4498	4.09476	0.59088	0.91107
634873.9	4252902.34	1.05967E-05	7.70598E-05	2.34606E-05	3.26869E-05	0.000143804	0.30272	2.2525	0.38053	0.53018
634859.6	4252899.9	1.04752E-05	7.23168E-05	2.3095E-05	3.20426E-05	0.00013793	0.29925	2.11386	0.3746	0.51973
634908.8	4252862.88	1.04038E-05	7.152E-05	2.31585E-05	3.22146E-05	0.000137297	0.29721	2.09057	0.37563	0.52252
634920.9	4252870.25	1.05725E-05	7.73841E-05	2.36246E-05	3.30241E-05	0.000144605	0.30203	2.26198	0.38319	0.53565
634933	4252877.63	1.07483E-05	8.34856E-05	2.41098E-05	3.387E-05	0.000152214	0.30705	2.44033	0.39106	0.54937
634945.1	4252885	1.09313E-05	8.94225E-05	2.46135E-05	3.47504E-05	0.000159718	0.31228	2.61387	0.39923	0.56365
634957.2	4252892.38	1.11218E-05	9.48165E-05	2.51357E-05	3.56659E-05	0.00016674	0.31772	2.77154	0.4077	0.5785
634969.4	4252899.75	1.13206E-05	9.93529E-05	2.56764E-05	3.66148E-05	0.000172965	0.3234	2.90414	0.41647	0.59389
634981.5	4252999.73	1.15200E-05 1.15282E-05	0.000102865	2.6235E-05		0.000172965		3.00681	0.42553	0.59389
					3.75969E-05		0.32933			
634993.6	4252914.51	1.17452E-05	0.000105324	2.68126E-05	3.86105E-05	0.000182493	0.33553	3.07869	0.4349	0.62626
635005.7	4252921.88	1.1972E-05	0.000106797	2.74076E-05	3.96524E-05	0.000185829	0.34201	3.12174	0.44455	0.64316

635017.8	4252929.26	1.22097E-05	0.000107411	2.80198E-05	4.07214E-05	0.000188362	0.3488	3.13969	0.45448	0.6605
635030	4252936.63	1.2459E-05	0.000107297	2.8648E-05	4.18139E-05	0.000190218	0.35592	3.13634	0.46467	0.67822
635042.1	4252944.01	1.27204E-05	0.000106605	2.92917E-05	4.29267E-05	0.000191544	0.36339	3.11612	0.47511	0.69627
635057.9	4252965.06	1.32767E-05	0.000107588	3.06172E-05	4.5243E-05	0.000196725	0.37928	3.14487	0.49661	0.73384
						0.000190723				
635061.7	4252978.74	1.357E-05	0.000109466	3.13059E-05	4.64705E-05		0.38766	3.19975	0.50778	0.75375
635065.5	4252992.42	1.38753E-05	0.000111099	3.20161E-05	4.77381E-05	0.000204729	0.39638	3.24749	0.5193	0.77431
635069.2	4253006.09	1.41931E-05	0.000112491	3.27473E-05	4.9047E-05	0.000208478	0.40546	3.28816	0.53116	0.79554
635073	4253019.77	1.45243E-05	0.000113665	3.35013E-05	5.03978E-05	0.000212088	0.41492	3.32249	0.54339	0.81745
635076.8	4253033.45	1.48694E-05	0.00011463	3.42781E-05	5.17905E-05	0.000215568	0.42478	3.3507	0.55599	0.84004
635080.5	4253047.13	1.52293E-05	0.000115395	3.5079E-05	5.3227E-05	0.00021893	0.43506	3.37305	0.56898	0.86334
635084.3	4253060.8	1.56038E-05	0.000115975	3.59027E-05	5.47048E-05	0.000222187	0.44576	3.39002	0.58234	0.88731
635088.1	4253074.48	1.59945E-05	0.000116376	3.67516E-05	5.62264E-05	0.000225349	0.45692	3.40174	0.59611	0.91199
635091.8	4253088.16	1.64009E-05	0.000116614	3.76253E-05	5.77905E-05	0.00022843	0.46853	3.40868	0.61028	0.93736
635095.6	4253101.84	1.68237E-05	0.000116699	3.85235E-05	5.93966E-05	0.000231443	0.48061	3.41118	0.62485	0.96341
635099.4	4253115.51	1.72634E-05	0.000116645	3.94477E-05	6.10433E-05	0.000231443	0.49317	3.4096	0.63984	0.99012
634896.7	4252855.5	1.02421E-05	6.61684E-05	2.27097E-05	3.14397E-05	0.00013056	0.29259	1.93414	0.36835	0.50995
634882.3	4252853.06	1.01234E-05	6.24087E-05	2.23576E-05	3.08287E-05	0.000125718	0.2892	1.82424	0.36264	0.50004
634868	4252850.61	1.001E-05	5.91898E-05	2.20198E-05	3.02436E-05	0.000121463	0.28596	1.73015	0.35716	0.49055
634916.9	4252813.4	9.94175E-06	5.86783E-05	2.20654E-05	3.03749E-05	0.00012106	0.28401	1.7152	0.3579	0.49268
	4252820.6	1.0094E-05	6.27833E-05	2.24853E-05	3.10919E-05	0.00012100				
634928.7							0.28836	1.83519	0.36471	0.50431
634940.5	4252827.79	1.02522E-05	6.71694E-05	2.29211E-05	3.18373E-05	0.00013218	0.29288	1.9634	0.37178	0.5164
634952.3	4252834.98	1.04161E-05	7.16712E-05	2.33724E-05	3.26129E-05	0.000138073	0.29756	2.09499	0.3791	0.52898
634964.1	4252842.17	1.05865E-05	7.60694E-05	2.38398E-05	3.34175E-05	0.000143913	0.30243	2.22355	0.38668	0.54203
634976	4252849.36	1.0764E-05	8.01579E-05	2.43231E-05	3.4251E-05	0.000149496	0.3075	2.34306	0.39452	0.55555
								2.44827		
634987.8	4252856.55	1.09481E-05	8.37572E-05	2.48225E-05	3.51123E-05	0.00015464	0.31276		0.40262	0.56952
634999.6	4252863.74	1.11403E-05	8.67496E-05	2.53373E-05	3.60007E-05	0.000159228	0.31825	2.53574	0.41097	0.58393
635011.4	4252870.93	1.13409E-05	8.90849E-05	2.58675E-05	3.69138E-05	0.000163207	0.32398	2.604	0.41957	0.59874
635023.2	4252878.12	1.15502E-05	9.07742E-05	2.64125E-05	3.78515E-05	0.000166588	0.32996	2.65338	0.42841	0.61395
635035	4252885.32	1.1769E-05	9.18659E-05	2.69723E-05	3.88102E-05	0.000169417	0.33621	2.68529	0.43749	0.6295
635046.8	4252892.51	1.19983E-05	9.24156E-05	2.75457E-05	3.97874E-05	0.000171747	0.34276	2.70136	0.44679	0.64535
635058.7	4252899.7	1.22377E-05	9.24994E-05	2.81314E-05	4.07812E-05	0.00017365	0.3496	2.70381	0.45629	0.66147
635070.5	4252906.89	1.24891E-05	9.2184E-05	2.87294E-05	4.17874E-05	0.00017519	0.35678	2.69459	0.46599	0.67779
635082.3	4252914.08	1.2752E-05	9.15415E-05	2.93385E-05	4.28034E-05	0.000176435	0.36429	2.67581	0.47587	0.69427
635097.8	4252934.61	1.33061E-05	9.21399E-05	3.05938E-05	4.49286E-05	0.000180968	0.38012	2.6933	0.49623	0.72874
635101.4	4252947.94	1.35956E-05	9.34909E-05	3.12479E-05	4.60624E-05	0.000184397	0.38839	2.73279	0.50684	0.74713
635105.1	4252961.28	1.38966E-05	9.46896E-05	3.19199E-05	4.72289E-05	0.000187735	0.39699	2.76783	0.51774	0.76605
635112.5	4252987.95	1.45337E-05	9.66465E-05	3.33201E-05	4.9658E-05	0.000194158	0.41519	2.82503	0.54045	0.80545
635116.1	4253001.29	1.48708E-05	9.742E-05	3.40494E-05	5.09206E-05	0.000197261	0.42482	2.84764	0.55228	0.82593
635119.8	4253014.62	1.52209E-05	9.80635E-05	3.47966E-05	5.22153E-05	0.000200296	0.43482	2.86645	0.5644	0.84693
635123.5	4253027.96	1.55839E-05	9.85883E-05	3.55642E-05	5.35415E-05	0.000203278	0.44519	2.88179	0.57685	0.86844
635127.1	4253041.29	1.59602E-05	9.8992E-05	3.63515E-05	5.48984E-05	0.000206202	0.45594	2.89359	0.58962	0.89045
635130.8	4253054.63	1.63501E-05	9.92841E-05	3.71585E-05	5.62868E-05	0.00020908	0.46708	2.90213	0.60271	0.91297
635134.5	4253067.96	1.67541E-05	9.94661E-05	3.79859E-05	5.77042E-05	0.00021191	0.47862	2.90745	0.61613	0.93596
635138.1	4253081.3	1.71717E-05	9.95445E-05	3.88343E-05	5.91506E-05	0.000214701	0.49055	2.90974	0.62989	0.95942
635141.8	4253094.63	1.76033E-05	9.95239E-05	3.97017E-05	6.06235E-05	0.000217452	0.50288	2.90914	0.64396	0.98331
635145.5	4253107.97	1.80489E-05	9.94158E-05	4.05901E-05	6.21241E-05	0.000220179	0.51561	2.90598	0.65837	1.00765
635149.1	4253121.31	1.85085E-05	9.92273E-05	4.14989E-05	6.36481E-05	0.000222883	0.52874	2.90047	0.67311	1.03237
634905.1	4252806.21	9.79543E-06	5.49719E-05	2.1661E-05	2.96881E-05	0.000116116	0.27983	1.60686	0.35134	0.48154
634890.7	4252803.77	9.68517E-06	5.2283E-05	2.13354E-05	2.91326E-05	0.000112436	0.27668	1.52826	0.34606	0.47253
634876.4	4252801.32	9.5791E-06	4.9958E-05	2.10223E-05	2.86E-05	0.000109159	0.27365	1.4603	0.34098	0.46389
634933.9	4252714.94	9.12474E-06	4.29027E-05	2.01375E-05	2.72029E-05	9.93679E-05	0.26067	1.25407	0.32663	0.44123
634945.9	4252722.25	9.25846E-06	4.52916E-05	2.05044E-05	2.78096E-05	0.000102864	0.26449	1.3239	0.33258	0.45107
634957.9	4252729.55	9.39673E-06	4.78917E-05	2.08848E-05	2.84403E-05	0.000106613	0.26844	1.3999	0.33875	0.4613
634969.9	4252736.86	9.54025E-06	5.06668E-05	2.12787E-05	2.90963E-05	0.000110582	0.27254	1.48102	0.34514	0.47194
634981.9	4252744.16	9.68902E-06	5.35457E-05	2.16856E-05	2.9775E-05	0.000114695	0.27679	1.56517	0.35174	0.48295
634993.9	4252751.47	9.84304E-06	5.64474E-05	2.21067E-05	3.04779E-05	0.000118875	0.28119	1.64999	0.35857	0.49435
635005.9	4252758.78	1.0003E-05	5.92739E-05	2.25414E-05	3.12035E-05	0.000123022	0.28576	1.73261	0.36562	0.50612
635017.9	4252766.08	1.01693E-05	6.19325E-05	2.2989E-05	3.1952E-05	0.000127043	0.29051	1.81032	0.37288	0.51826
635029.9	4252773.39	1.03422E-05	6.4347E-05	2.34501E-05	3.27214E-05	0.000130861	0.29545	1.8809	0.38036	0.53074
635041.9	4252780.69	1.05225E-05	6.64561E-05	2.39236E-05	3.35106E-05	0.000134413	0.3006	1.94255	0.38804	0.54354
635053.9	4252788	1.07105E-05	6.82307E-05	2.44094E-05	3.43182E-05	0.000137669	0.30597	1.99442	0.39592	0.55664
635065.9	4252795.3	1.09068E-05	6.9659E-05	2.49076E-05	3.51425E-05	0.000140616	0.31158	2.03617	0.404	0.57001
635077.9	4252802.61	1.1112E-05	7.07561E-05	2.54168E-05	3.59816E-05	0.000143267	0.31744	2.06824	0.41226	0.58362
635089.9	4252809.91	1.13266E-05	7.15382E-05	2.5936E-05	3.68324E-05	0.000145633	0.32357	2.0911	0.42068	0.59742
635101.9	4252817.22	1.15509E-05	7.20339E-05	2.64662E-05	3.76937E-05	0.000147745	0.32998	2.10559	0.42928	0.61139
635113.9	4252824.52	1.17858E-05	7.22662E-05	2.70044E-05	3.85618E-05	0.000149618	0.33669	2.11238	0.43801	0.62547
635125.9	4252831.83	1.20312E-05	7.22665E-05	2.75506E-05	3.94341E-05	0.000151282	0.3437	2.11239	0.44687	0.63962
635137.9	4252839.13	1.22874E-05	7.20578E-05	2.81037E-05	4.03071E-05	0.000152756	0.35102	2.10629	0.45584	0.65378
635149.9	4252846.44	1.25549E-05	7.16692E-05	2.86622E-05	4.11783E-05	0.000154065	0.35866	2.09493	0.4649	0.66791
635161.9	4252853.74	1.28325E-05	7.11228E-05	2.92245E-05	4.20433E-05	0.000155223	0.36659	2.07896	0.47402	0.68194
635177.7	4252874.6	1.34086E-05	7.13243E-05	3.03947E-05	4.38854E-05	0.000159223	0.38305	2.08485	0.493	0.71182
635181.4	4252888.14	1.37058E-05	7.21187E-05	3.1013E-05	4.48922E-05	0.00016173	0.39154	2.10807	0.50303	0.72815
635185.1	4252901.69	1.40132E-05	7.28347E-05	3.1645E-05	4.592E-05	0.000164413	0.40032	2.129	0.51328	0.74482
635188.8	4252915.24	1.43307E-05	7.347E-05	3.22917E-05	4.69687E-05	0.000167061	0.40939	2.14757	0.52377	0.76183
635192.6	4252928.79	1.46587E-05	7.40284E-05	3.29532E-05	4.80365E-05	0.000169677	0.41876	2.16389	0.5345	0.77915
635196.3	4252942.33	1.49965E-05	7.45118E-05	3.36283E-05	4.91228E-05	0.000172259	0.42841	2.17802	0.54545	0.77513
635200	4252955.88	1.53448E-05	7.4925E-05	3.43176E-05	5.02276E-05	0.000174815	0.43836	2.1901	0.55663	0.81469
635203.8	4252969.43	1.57029E-05	7.52712E-05	3.50211E-05	5.13491E-05	0.000177344	0.44859	2.20022	0.56804	0.83288
635207.5	4252982.97	1.60711E-05	7.5549E-05	3.57387E-05	5.24866E-05	0.000179845	0.45911	2.20834	0.57968	0.85133
635211.2	4252996.52	1.64495E-05	7.57632E-05	3.64705E-05	5.36395E-05	0.000182323	0.46992	2.2146	0.59155	0.87003
635214.9	4253010.07	1.68374E-05	7.59147E-05	3.72159E-05	5.48059E-05	0.000184774	0.481	2.21903	0.60364	0.88895
635218.7	4253023.62	1.72347E-05	7.60078E-05	3.79748E-05	5.59841E-05	0.000187201	0.49235	2.22175	0.61595	0.90806
635222.4	4253037.16	1.76404E-05	7.60396E-05	3.87461E-05	5.71722E-05	0.000189598	0.50394	2.22268	0.62846	0.92733
635226.1	4253050.71	1.80552E-05	7.60136E-05	3.95309E-05	5.83695E-05	0.000191969	0.51579	2.22192	0.64119	0.94675
635229.9	4253064.26	1.84781E-05	7.59308E-05	4.03281E-05	5.95741E-05	0.000194311	0.52787	2.2195	0.65412	0.96629
635233.6	4253077.81	1.89086E-05	7.57936E-05	4.1137E-05	6.07831E-05	0.000196622	0.54017	2.21549	0.66724	0.9859
635237.3	4253077.81	1.93451E-05	7.56065E-05	4.1137E-05 4.1957E-05	6.1994E-05	0.000190022	0.55264	2.21349	0.68054	1.00554
055257.5	 23031.33	T.7247TE-02	7.30003E-03	4.1337E-03	U.1334E-U3	0.000130303	0.33204	2.21002	0.00034	1.00554

625244	4252404.0	1 070005 05	7 527045 05	4 270745 05	C 220C4F 0F	0.000204452	0.56524	2 20242	0.60404	4.0252
635241	4253104.9	1.97886E-05	7.53704E-05	4.27874E-05	6.32061E-05	0.000201153	0.56531	2.20312	0.69401	1.0252
635244.8	4253118.45	2.02378E-05	7.50906E-05	4.3629E-05	6.44157E-05	0.000203373	0.57814	2.19494	0.70766	1.04482
635248.5	4253132	2.06914E-05	7.47697E-05	4.44792E-05	6.56204E-05	0.000205561	0.5911	2.18556	0.72145	1.06436
634921.9	4252707.64	8.99592E-06	4.07471E-05	1.97837E-05	2.66203E-05	9.6147E-05	0.25699	1.19106	0.32089	0.43178
634907.6	4252705.19	8.89966E-06	3.91895E-05	1.95025E-05	2.61561E-05	9.37477E-05	0.25424	1.14553	0.31633	0.42425
634893.2	4252702.75	8.80689E-06	3.78176E-05	1.92325E-05	2.57109E-05	9.15679E-05	0.25159	1.10543	0.31195	0.41703
634950.8	4252616.44	8.41484E-06	3.34865E-05	1.84643E-05	2.45266E-05	8.48922E-05	0.24039	0.97883	0.29949	0.39782
634962.9	4252623.81	8.53246E-06	3.50175E-05	1.87855E-05	2.50426E-05	8.7378E-05	0.24375	1.02358	0.3047	0.40619
634975.1	4252631.19	8.65392E-06	3.66873E-05	1.91184E-05	2.55796E-05	9.00392E-05	0.24722	1.07239	0.3101	0.4149
634987.2	4252638.56	8.77959E-06	3.84858E-05	1.94624E-05	2.61357E-05	9.28635E-05	0.25081	1.12496	0.31568	0.42392
634999.3	4252645.94	8.90946E-06	4.03968E-05	1.98176E-05	2.67115E-05	9.58353E-05	0.25452	1.18082	0.32144	0.43326
635011.4	4252653.32	9.04388E-06	4.23916E-05	2.0185E-05	2.73071E-05	9.89276E-05	0.25836	1.23913	0.3274	0.44292
635023.5	4252660.69	9.18285E-06	4.44282E-05	2.05636E-05	2.79218E-05	0.000102096	0.26233	1.29866	0.33354	0.45289
	4252668.07	9.32707E-06				0.000102030			0.33986	
635035.6			4.64613E-05	2.09532E-05	2.85549E-05		0.26645	1.35809		0.46316
635047.8	4252675.44	9.47654E-06	4.84387E-05	2.13539E-05	2.92054E-05	0.000108475	0.27072	1.41589	0.34636	0.47371
635059.9	4252682.82	9.63196E-06	5.03148E-05	2.17658E-05	2.98731E-05	0.000111586	0.27516	1.47073	0.35304	0.48454
635072	4252690.19	9.79368E-06	5.20476E-05	2.21887E-05	3.05568E-05	0.000114587	0.27978	1.52138	0.3599	0.49563
635084.1	4252697.57	9.96241E-06	5.36076E-05	2.26215E-05	3.12553E-05	0.000117447	0.2846	1.56698	0.36692	0.50696
635096.2	4252704.94	1.01381E-05	5.49702E-05	2.30642E-05	3.19662E-05	0.000120139	0.28962	1.60681	0.3741	0.51849
635108.4	4252712.32	1.03216E-05	5.61286E-05	2.35161E-05	3.26887E-05	0.000122655	0.29486	1.64067	0.38143	0.53021
635120.5	4252719.7	1.05134E-05	5.70824E-05	2.39766E-05	3.34212E-05	0.000124994	0.30034	1.66855	0.3889	0.54209
635132.6	4252727.07	1.07136E-05	5.78374E-05	2.44458E-05	3.41604E-05	0.000127157	0.30606	1.69062	0.39651	0.55408
635144.7	4252734.45	1.09233E-05	5.8407E-05	2.49218E-05	3.49064E-05	0.000129158	0.31205	1.70727	0.40423	0.56618
635156.8	4252741.82	1.11417E-05	5.88015E-05	2.54039E-05	3.56542E-05	0.000123130	0.31829	1.7188	0.41205	0.57831
635168.9	4252749.2	1.137E-05	5.90351E-05	2.58916E-05	3.64039E-05	0.000132701	0.32481	1.72563	0.41996	0.59047
635181.1	4252756.57	1.16069E-05	5.91193E-05	2.63835E-05	3.71499E-05	0.00013426	0.33158	1.72809	0.42794	0.60257
635193.2	4252763.95	1.18537E-05	5.90676E-05	2.68792E-05	3.78928E-05	0.000135693	0.33863	1.72658	0.43598	0.61462
635205.3	4252771.32	1.21096E-05	5.88904E-05	2.73774E-05	3.86271E-05	0.000137005	0.34594	1.7214	0.44406	0.62653
635217.4	4252778.7	1.23735E-05	5.86013E-05	2.78762E-05	3.93515E-05	0.000138203	0.35348	1.71295	0.45215	0.63828
635229.5	4252786.07	1.26455E-05	5.82117E-05	2.83749E-05	4.00624E-05	0.000139295	0.36125	1.70156	0.46024	0.64981
635241.6	4252793.45	1.29238E-05	5.77355E-05	2.88718E-05	4.07572E-05	0.000140288	0.3692	1.68764	0.4683	0.66108
635257.5	4252814.5	1.34927E-05	5.77211E-05	2.99205E-05	4.22806E-05	0.000143415	0.38545	1.68722	0.48531	0.68579
635261.3	4252828.18	1.37842E-05	5.82124E-05	3.04853E-05	4.31407E-05	0.000145623	0.39378	1.70158	0.49447	0.69974
635265.1	4252841.86	1.40835E-05	5.86537E-05	3.10605E-05	4.40118E-05	0.00014781	0.40233	1.71448	0.5038	0.71387
635268.8	4252855.54	1.43902E-05	5.90457E-05	3.16456E-05	4.48935E-05	0.000149975	0.41109	1.72594	0.51329	0.72817
635272.6	4252869.21	1.47038E-05	5.93906E-05	3.22399E-05	4.57837E-05	0.000152118	0.42005	1.73602	0.52293	0.74261
635276.3	4252882.89	1.50248E-05	5.96896E-05	3.28441E-05	4.66832E-05	0.000154242	0.42922	1.74476	0.53273	0.7572
635280.1	4252896.57	1.53525E-05	5.99428E-05	3.34582E-05	4.75908E-05	0.000156344	0.43858	1.75216	0.54269	0.77192
635283.9	4252910.25	1.56864E-05	6.01538E-05	3.40809E-05	4.85044E-05	0.000158426	0.44812	1.75833	0.55279	0.78674
635287.6	4252923.92	1.60267E-05	6.03215E-05	3.47128E-05	4.94231E-05	0.000160484	0.45784	1.76323	0.56304	0.80164
635291.4	4252937.6	1.63725E-05	6.04501E-05	3.53527E-05	5.0346E-05	0.000162521	0.46772	1.76699	0.57342	0.81661
635295.2	4252951.28	1.6724E-05	6.05397E-05	3.60007E-05	5.1272E-05	0.000164536	0.47776	1.76961	0.58393	0.83163
635298.9	4252964.96	1.708E-05	6.05893E-05	3.66567E-05	5.21999E-05	0.0001615356	0.48793	1.77106	0.59457	0.84668
635302.7	4252978.63	1.74405E-05	6.06023E-05	3.73195E-05	5.31265E-05	0.000168489	0.49823	1.77144	0.60532	0.86171
635306.5	4252992.31	1.78049E-05	6.05777E-05	3.79896E-05	5.40525E-05	0.000170425	0.50864	1.77072	0.61619	0.87673
635310.2	4253005.99	1.81728E-05	6.05189E-05	3.86653E-05	5.49749E-05	0.000172332	0.51915	1.769	0.62715	0.89169
635314	4253019.67	1.85432E-05	6.04251E-05	3.93466E-05	5.58929E-05	0.000174208	0.52973	1.76626	0.6382	0.90658
635317.8	4253033.34	1.89156E-05	6.02951E-05	4.00328E-05	5.68029E-05	0.000176046	0.54037	1.76246	0.64933	0.92134
635321.5	4253047.02	1.92898E-05	6.0133E-05	4.07233E-05	5.77055E-05	0.000177852	0.55106	1.75772	0.66053	0.93598
635325.3	4253060.7	1.96647E-05	5.9938E-05	4.14175E-05	5.85982E-05	0.000179618	0.56177	1.75202	0.67179	0.95046
635329	4253074.38	2.00396E-05	5.97101E-05	4.21142E-05	5.94786E-05	0.000181343	0.57248	1.74536	0.68309	0.96474
635332.8	4253088.06	2.04145E-05	5.94542E-05	4.28133E-05	6.03454E-05	0.000183027	0.58319	1.73788	0.69443	0.9788
635336.6	4253101.73	2.07877E-05	5.91692E-05	4.35124E-05	6.1195E-05	0.000184664	0.59385	1.72955	0.70577	0.99258
635340.3	4253115.41	2.11598E-05	5.88607E-05	4.42122E-05	6.20279E-05	0.000184364	0.60448	1.72053	0.71712	1.00609
635344.1	4253129.09	2.15294E-05	5.85281E-05	4.49113E-05	6.28411E-05	0.00018781	0.61504	1.71081	0.72846	1.01928
635347.9	4253142.77	2.18963E-05	5.81723E-05	4.56092E-05	6.36321E-05	0.00018931	0.62552	1.70041	0.73978	1.03211
634938.7	4252609.06	8.30072E-06	3.20948E-05	1.81542E-05	2.40297E-05	8.25794E-05	0.23713	0.93815	0.29446	0.38976
634924.4	4252606.62	8.21636E-06	3.10884E-05	1.791E-05	2.36375E-05	8.08523E-05	0.23472	0.90873	0.2905	0.3834
634910	4252604.17	8.1348E-06	3.01849E-05	1.76751E-05	2.32602E-05	7.9255E-05	0.23239	0.88232	0.28669	0.37728
634967.7	4252517.91	7.79315E-06	2.72506E-05	1.70037E-05	2.22467E-05	7.42942E-05	0.22263	0.79655	0.2758	0.36084
634979.9	4252525.33	7.89712E-06	2.83029E-05	1.72861E-05	2.269E-05	7.61761E-05	0.2256	0.82731	0.28038	0.36803
634992.1	4252532.76	8.00423E-06	2.94456E-05	1.75783E-05	2.31493E-05	7.81774E-05	0.22866	0.86071	0.28512	0.37548
635004.3	4252540.18	8.11485E-06	3.06775E-05	1.78798E-05	2.36246E-05	8.02968E-05	0.23182	0.89672	0.29001	0.38319
635016.5	4252547.6	8.22896E-06	3.19949E-05	1.81912E-05	2.41166E-05	8.25317E-05	0.23508	0.93523	0.29506	0.39117
635028.7	4252555.03	8.34658E-06	3.33914E-05	1.8513E-05	2.46246E-05	8.48756E-05	0.23844	0.97605	0.30028	0.39941
635040.9	4252562.45	8.46805E-06	3.48498E-05	1.88435E-05	2.51486E-05	8.731E-05	0.24191	1.01868	0.30564	0.40791
				1.88435E-05 1.91844E-05						
635053.1	4252569.87	8.59371E-06	3.635E-05		2.56881E-05	8.98162E-05	0.2455	1.06253	0.31117	0.41666
635065.3	4252577.3	8.72358E-06	3.78686E-05	1.95346E-05	2.62424E-05	9.23691E-05	0.24921	1.10692	0.31685	0.42565
635077.5	4252584.72	8.85835E-06	3.93746E-05	1.98946E-05	2.68114E-05	9.49389E-05	0.25306	1.15094	0.32269	0.43488
635089.7	4252592.14	8.99837E-06	4.08395E-05	2.02633E-05	2.73934E-05	9.74946E-05	0.25706	1.19376	0.32867	0.44432
635101.9	4252599.56	9.14399E-06	4.22377E-05	2.06406E-05	2.79884E-05	0.000100011	0.26122	1.23463	0.33479	0.45397
635114.1	4252606.99	9.29521E-06	4.35455E-05	2.10272E-05	2.8595E-05	0.000102463	0.26554	1.27286	0.34106	0.46381
635126.3	4252614.41	9.45309E-06	4.47415E-05	2.14218E-05	2.92122E-05	0.000104829	0.27005	1.30782	0.34746	0.47382
635138.5	4252621.83	9.61761E-06	4.58127E-05	2.18237E-05	2.98379E-05	0.000107092	0.27475	1.33913	0.35398	0.48397
635150.7	4252629.26	9.78948E-06	4.67518E-05	2.22331E-05	3.04717E-05	0.000107032	0.27966	1.36658	0.36062	0.49425
635162.9	4252636.68	9.96871E-06	4.7555E-05	2.26493E-05	3.11117E-05	0.000103240	0.28478	1.39006	0.36737	0.50463
635175	4252644.1	1.01556E-05	4.82249E-05	2.3071E-05	3.17553E-05	0.000113207	0.29012	1.40964	0.37421	0.51507
635187.2	4252651.53	1.0351E-05	4.87678E-05	2.34988E-05	3.24021E-05	0.00011502	0.2957	1.42551	0.38115	0.52556
635199.4	4252658.95	1.05543E-05	4.91879E-05	2.39304E-05	3.30494E-05	0.000116722	0.30151	1.43779	0.38815	0.53606
635211.6	4252666.37	1.07658E-05	4.94934E-05	2.43657E-05	3.36943E-05	0.000118319	0.30755	1.44672	0.39521	0.54652
635223.8	4252673.8	1.09856E-05	4.96915E-05	2.4804E-05	3.43367E-05	0.000119818	0.31383	1.45251	0.40232	0.55694
635236	4252681.22	1.12128E-05	4.97876E-05	2.52442E-05	3.49724E-05	0.000121217	0.32032	1.45532	0.40946	0.56725
635248.2	4252688.64	1.14473E-05	4.97897E-05	2.56844E-05	3.55994E-05	0.000122521	0.32702	1.45538	0.4166	0.57742
635260.4	4252696.06	1.16889E-05	4.97031E-05	2.61252E-05	3.62165E-05	0.000123734	0.33392	1.45285	0.42375	0.58743
635272.6	4252703.49	1.19367E-05	4.95358E-05	2.65648E-05	3.68213E-05	0.000124859	0.341	1.44796	0.43088	0.59724
635284.8	4252710.91	1.21898E-05	4.92923E-05	2.70013E-05	3.74107E-05	0.000125894	0.34823	1.44084	0.43796	0.6068
635297	4252718.33	1.24471E-05	4.89803E-05	2.74347E-05	3.79822E-05	0.000125854	0.35558	1.43172	0.44499	0.61607
033437	FLJL1 10.33	1.277/1L-UJ	+.03003L-03	2.7-13-7 L-UJ	J., JUZZL-UJ	5.0001200 11	0.33330	1.731/2	J. 777 JJ	0.0100/

635309.2	4252725.76	1.27075E-05	4.86074E-05	2.78632E-05	3.85352E-05	0.000127713	0.36302	1.42082	0.45194	0.62504
635321.4	4252733.18	1.29704E-05	4.81784E-05	2.82855E-05	3.90661E-05	0.0001285	0.37053	1.40828	0.45879	0.63365
635337.4	4252754.37	1.35021E-05	4.80422E-05	2.91967E-05	4.02825E-05	0.000131024	0.38572	1.4043	0.47357	0.65338
635341.2	4252768.13	1.37755E-05	4.83494E-05	2.96998E-05	4.09964E-05	0.000132821	0.39353	1.41328	0.48173	0.66496
	4252781.9									
635345		1.40538E-05	4.86238E-05	3.02091E-05	4.17147E-05	0.000134601	0.40148	1.4213	0.48999	0.67661
635348.8	4252795.67	1.43363E-05	4.88656E-05	3.07245E-05	4.24366E-05	0.000136363	0.40955	1.42837	0.49835	0.68832
635352.5	4252809.43	1.4623E-05	4.90764E-05	3.12461E-05	4.31604E-05	0.000138106	0.41774	1.43453	0.50681	0.70006
635356.3	4252823.2	1.49139E-05	4.92553E-05	3.17732E-05	4.38867E-05	0.000139829	0.42605	1.43976	0.51536	0.71184
635360.1	4252836.96	1.52082E-05	4.94038E-05	3.23053E-05	4.46129E-05	0.00014153	0.43446	1.4441	0.52399	0.72362
635363.9	4252850.73	1.55058E-05	4.95235E-05	3.28435E-05	4.53398E-05	0.000143213	0.44296	1.4476	0.53272	0.73541
635367.7	4252864.5	1.58065E-05	4.96145E-05	3.33854E-05	4.60655E-05	0.000144872	0.45155	1.45026	0.54151	0.74718
635371.5	4252878.26	1.61089E-05	4.96782E-05	3.39317E-05	4.67887E-05	0.000146507	0.46019	1.45212	0.55037	0.75891
635375.3	4252892.03	1.64138E-05	4.97165E-05	3.44816E-05	4.75094E-05	0.000148121	0.4689	1.45324	0.55929	0.7706
635379.1	4252905.79	1.67198E-05	4.97278E-05	3.50352E-05	4.82245E-05	0.000149707	0.47764	1.45357	0.56827	0.7822
635382.8	4252919.56	1.70275E-05	4.97144E-05	3.55913E-05	4.89348E-05	0.000151268	0.48643	1.45318	0.57729	0.79372
635386.6	4252933.32	1.73351E-05	4.96768E-05	3.61499E-05	4.96382E-05	0.0001528	0.49522	1.45208	0.58635	0.80513
635390.4	4252947.09	1.76432E-05	4.96152E-05	3.67103E-05	5.03343E-05	0.000154303	0.50402	1.45028	0.59544	0.81642
635394.2	4252960.86	1.79509E-05	4.95317E-05	3.7272E-05	5.10211E-05	0.000155776	0.51281	1.44784	0.60455	0.82756
635398	4252974.62	1.82575E-05	4.94246E-05	3.78336E-05	5.16968E-05	0.000157213	0.52157	1.44471	0.61366	0.83852
635401.8	4252988.39	1.85631E-05	4.92957E-05	3.83953E-05	5.23614E-05	0.000158616	0.5303	1.44094	0.62277	0.8493
635405.6	4253002.15	1.8867E-05	4.91451E-05	3.89563E-05	5.30131E-05	0.000159982	0.53898	1.43654	0.63187	0.85987
635409.4	4253015.92	1.91687E-05	4.89738E-05	3.95168E-05	5.36512E-05	0.00016131	0.5476	1.43153	0.64096	0.87022
635413.1	4253029.69	1.94677E-05	4.87829E-05	4.00753E-05	5.42745E-05	0.0001626	0.55614	1.42595	0.65002	0.88033
635416.9	4253043.45	1.97638E-05	4.85707E-05	4.06302E-05	5.48805E-05	0.000163845	0.5646	1.41975	0.65902	0.89016
635420.7	4253057.22	2.00568E-05	4.83395E-05	4.1182E-05	5.54687E-05	0.000165047	0.57297	1.41299	0.66797	0.8997
635424.5	4253070.98	2.03463E-05	4.80897E-05	4.17295E-05	5.60378E-05	0.000166203	0.58124	1.40569	0.67685	0.90893
635428.3	4253084.75	2.06319E-05	4.78236E-05	4.22726E-05	5.65871E-05	0.000167315	0.5894	1.39791	0.68566	0.91784
635432.1	4253098.51	2.09134E-05	4.75424E-05	4.28102E-05	5.71148E-05	0.000168381	0.59744	1.38969	0.69438	0.9264
635435.9	4253112.28	2.11906E-05	4.72458E-05	4.33411E-05	5.76204E-05	0.000169398	0.60536	1.38102	0.70299	0.9346
635439.7	4253126.05	2.14636E-05	4.69358E-05	4.38651E-05	5.81025E-05	0.000170367	0.61316	1.37196	0.71149	0.94242
635443.5	4253139.81	2.17318E-05	4.66136E-05	4.43805E-05	5.85587E-05	0.000171285	0.62082	1.36254	0.71985	0.94982
635447.2	4253153.58	2.19957E-05	4.62803E-05	4.48879E-05	5.89903E-05	0.000172154	0.62836	1.3528	0.72808	0.95682
634955.5	4252510.49	7.69234E-06	2.62848E-05	1.67306E-05	2.182E-05	7.25278E-05	0.21975	0.76832	0.27137	0.35392
634941.2	4252508.04	7.61743E-06	2.55845E-05	1.65173E-05	2.14853E-05	7.12045E-05	0.21761	0.74785	0.26791	0.34849
634926.9	4252505.6	7.54532E-06	2.49472E-05	1.63108E-05	2.11628E-05	6.99661E-05	0.21555	0.72922	0.26456	0.34326
634984.6	4252419.37	7.24532E-06	2.28275E-05	1.57201E-05	2.02886E-05	6.60815E-05	0.20698	0.66726	0.25498	0.32908
634996.8	4252426.83	7.33774E-06	2.35897E-05	1.59698E-05	2.06714E-05	6.75687E-05	0.20962	0.68954	0.25903	0.33529
635009.1	4252434.28	7.4326E-06	2.44111E-05	1.62275E-05	2.10673E-05	6.91385E-05	0.21233	0.71355	0.26321	0.34171
635021.3	4252441.74	7.53026E-06	2.52951E-05	1.64933E-05	2.14766E-05	7.07953E-05	0.21512	0.73939	0.26752	0.34835
635033.6	4252449.2	7.63108E-06	2.62414E-05	1.67676E-05	2.19002E-05	7.25403E-05	0.218	0.76705	0.27197	0.35522
635045.9	4252456.66	7.73434E-06	2.72479E-05	1.705E-05	2.23367E-05	7.43689E-05	0.22095	0.79647	0.27655	0.3623
635058.1	4252464.11	7.84111E-06	2.83098E-05	1.7341E-05	2.27867E-05	7.62786E-05	0.224	0.82751	0.28127	0.3696
635070.4	4252471.57	7.95137E-06	2.94206E-05	1.764E-05	2.32498E-05	7.82617E-05	0.22715	0.85998	0.28612	0.37711
635082.6	4252479.03	8.06514E-06	3.05684E-05	1.79476E-05	2.37257E-05	8.03068E-05	0.2304	0.89353	0.29111	0.38483
	4252486.49									
635094.9		8.18276E-06	3.17377E-05	1.82633E-05	2.42134E-05	8.23971E-05	0.23376	0.92771	0.29623	0.39274
635107.1	4252493.94	8.30457E-06	3.29118E-05	1.85864E-05	2.47128E-05	8.45155E-05	0.23724	0.96203	0.30147	0.40084
635119.4	4252501.4	8.43094E-06	3.40739E-05	1.89174E-05	2.52232E-05	8.66456E-05	0.24085	0.996	0.30684	0.40912
635131.6	4252508.86	8.56221E-06	3.5206E-05	1.92565E-05	2.57448E-05	8.87695E-05	0.2446	1.02909	0.31234	0.41758
635143.9	4252516.32	8.69873E-06	3.62901E-05	1.96024E-05	2.6275E-05	9.08663E-05	0.2485	1.06078	0.31795	0.42618
635156.1	4252523.77	8.84085E-06	3.73103E-05	1.9955E-05	2.68133E-05	9.29194E-05	0.25256	1.0906	0.32367	0.43491
635168.4	4252531.23	8.98892E-06	3.82559E-05	2.03139E-05	2.73595E-05	9.49181E-05	0.25679	1.11824	0.32949	0.44377
635180.6	4252538.69	9.14329E-06	3.91166E-05	2.06795E-05	2.79113E-05	9.68507E-05	0.2612	1.1434	0.33542	0.45272
635192.9	4252546.15	9.30431E-06	3.9886E-05	2.105E-05	2.84686E-05	9.87089E-05	0.2658	1.16589	0.34143	0.46176
635205.1	4252553.6	9.47199E-06	4.056E-05	2.14255E-05	2.90284E-05	0.000100486	0.27059	1.18559	0.34752	0.47084
635217.4	4252561.06	9.64701E-06	4.11402E-05	2.18059E-05	2.95913E-05	0.000102184	0.27559	1.20255	0.35369	0.47997
635229.6	4252568.52	9.82904E-06	4.1628E-05	2.21899E-05	3.01542E-05	0.000103801	0.28079	1.21681	0.35992	0.4891
635241.9	4252575.98	1.00181E-05	4.20273E-05	2.25765E-05	3.07159E-05	0.000105338	0.28619	1.22848	0.36619	0.49821
635254.1	4252583.43	1.02144E-05	4.2341E-05	2.29655E-05	3.12744E-05	0.000106795	0.2918	1.23765	0.3725	0.50727
635266.4	4252590.89	1.04175E-05	4.25743E-05	2.33564E-05	3.18293E-05	0.000108177	0.2976	1.24447	0.37884	0.51627
635278.7	4252598.35	1.06268E-05	4.2732E-05	2.37479E-05	3.23768E-05	0.000109483	0.30358	1.24908	0.38519	0.52515
635290.9	4252605.81	1.08424E-05	4.28172E-05	2.41388E-05	3.29162E-05	0.000110715	0.30974	1.25157	0.39153	0.5339
635303.2	4252613.26	1.10633E-05	4.28336E-05	2.4529E-05	3.34458E-05	0.000111872	0.31605	1.25205	0.39786	0.54249
635315.4	4252620.72	1.12894E-05	4.27857E-05	2.49175E-05	3.39637E-05	0.000112956	0.32251	1.25065	0.40416	0.55089
635327.7	4252628.18	1.15191E-05	4.26776E-05	2.53028E-05	3.44674E-05	0.000113967	0.32907	1.24749	0.41041	0.55906
635339.9	4252635.64	1.17522E-05	4.25124E-05	2.56844E-05	3.49563E-05	0.000114905	0.33573	1.24266	0.4166	0.56699
635352.2	4252643.09	1.19871E-05	4.22938E-05	2.60605E-05	3.54273E-05	0.000115769	0.34244	1.23627	0.4227	0.57463
635364.4	4252650.55	1.22237E-05	4.20262E-05	2.64316E-05	3.58799E-05	0.000116561	0.3492	1.22845	0.42872	0.58197
635376.7	4252658.01	1.24604E-05	4.17146E-05	2.67954E-05	3.63121E-05	0.000110301	0.35596	1.21934	0.43462	0.58898
635388.9	4252665.47	1.26959E-05	4.13625E-05	2.71511E-05	3.67227E-05	0.000117932	0.36269	1.20905	0.44039	0.59564
635401.2	4252672.92	1.29298E-05	4.09739E-05	2.74982E-05	3.71098E-05	0.000118512	0.36937	1.19769	0.44602	0.60192
635417.2	4252694.21	1.34037E-05	4.07649E-05	2.82683E-05	3.80531E-05	0.00012049	0.38291	1.19158	0.45851	0.61722
635421	4252708.04	1.36505E-05	4.09589E-05	2.87091E-05	3.86345E-05	0.000121953	0.38996	1.19725	0.46566	0.62665
635424.8	4252721.87	1.38994E-05	4.11299E-05	2.91511E-05	3.92159E-05	0.000123396	0.39707	1.20225	0.47283	0.63608
635428.7	4252735.7	1.41507E-05	4.1276E-05	2.95963E-05	3.97967E-05	0.00012482	0.40425	1.20652	0.48005	0.6455
635432.5	4252749.53	1.44035E-05	4.14009E-05	3.00451E-05	4.03756E-05	0.000126225	0.41147	1.21017	0.48733	0.65489
635436.3	4252763.36	1.46576E-05	4.15028E-05	3.04958E-05	4.09526E-05	0.000127609	0.41873	1.21315	0.49464	0.66425
635440.1	4252777.19	1.49128E-05	4.15839E-05	3.09489E-05	4.1526E-05	0.000127003	0.42602	1.21552	0.50199	0.67355
635443.9	4252791.02	1.5169E-05	4.16451E-05	3.14045E-05	4.20963E-05	0.000130315	0.43334	1.21731	0.50938	0.6828
635447.7	4252804.85	1.54256E-05	4.16855E-05	3.18614E-05	4.26616E-05	0.000131634	0.44067	1.21849	0.51679	0.69197
635451.5	4252818.68	1.56822E-05	4.17074E-05	3.23188E-05	4.32214E-05	0.00013293	0.448	1.21913	0.52421	0.70105
635455.3	4252832.51	1.59385E-05	4.17105E-05	3.27775E-05	4.37751E-05	0.000134202	0.45532	1.21922	0.53165	0.71003
635459.1	4252846.33	1.61936E-05	4.16958E-05	3.32368E-05	4.43219E-05	0.000135448	0.46261	1.21879	0.5391	0.7189
635462.9	4252860.16	1.64485E-05	4.16636E-05	3.36955E-05	4.48608E-05	0.000136668	0.46989	1.21785	0.54654	0.72764
635466.7	4252873.99	1.67016E-05	4.16147E-05	3.41536E-05	4.53916E-05	0.000137861	0.47712	1.21642	0.55397	0.73625
635470.5	4252887.82	1.69532E-05	4.15507E-05	3.46111E-05	4.59126E-05	0.000139028	0.48431	1.21455	0.56139	0.7447
						0.000133028	0.49144			
635474.3	4252901.65	1.72028E-05	4.147E-05	3.50673E-05	4.64237E-05			1.21219	0.56879	0.75299
635478.1	4252915.48	1.74503E-05	4.13752E-05	3.55211E-05	4.69237E-05	0.00014127	0.49851	1.20942	0.57615	0.7611

635481.9										
033481.9	4252929.31	1.7695E-05	4.12647E-05	3.59724E-05	4.7412E-05	0.000142344	0.5055	1.20619	0.58347	0.76902
635485.7	4252943.14	1.79372E-05	4.11405E-05	3.64212E-05	4.78873E-05	0.000143386	0.51242	1.20256	0.59075	0.77673
635489.5	4252956.97	1.8176E-05	4.1002E-05	3.68657E-05	4.83491E-05	0.000144393	0.51924	1.19851	0.59796	0.78422
635493.3	4252970.8	1.84119E-05	4.08507E-05	3.73065E-05	4.87967E-05	0.000145366	0.52598	1.19409	0.60511	0.79148
635497.2	4252984.63	1.86443E-05	4.06855E-05	3.7743E-05	4.92295E-05	0.000146302	0.53262	1.18926	0.61219	0.7985
635501	4252998.46	1.88729E-05	4.05076E-05	3.81746E-05	4.96456E-05	0.000147201	0.53915	1.18406	0.61919	0.80525
635504.8	4253012.29	1.90983E-05	4.03177E-05	3.86006E-05	5.00464E-05	0.000148063	0.54559	1.17851	0.6261	0.81175
635508.6	4253026.12	1.93196E-05	4.01152E-05	3.90198E-05	5.04286E-05	0.000148883	0.55191	1.17259	0.6329	0.81795
635512.4	4253039.95	1.95373E-05	3.99014E-05	3.94329E-05	5.07942E-05	0.000149666	0.55813	1.16634	0.6396	0.82388
635516.2	4253053.78	1.97508E-05	3.96759E-05	3.98386E-05	5.11401E-05	0.000150405	0.56423	1.15975	0.64618	0.82949
635520	4253067.61	1.99605E-05	3.94406E-05	4.02369E-05	5.14675E-05	0.000151105	0.57022	1.15287	0.65264	0.8348
635523.8	4253081.44	2.0166E-05	3.91946E-05	4.06265E-05	5.17739E-05	0.000151761	0.57609	1.14568	0.65896	0.83977
635527.6	4253095.27	2.03673E-05	3.89397E-05	4.10081E-05	5.20593E-05	0.000152374	0.58184	1.13823	0.66515	0.8444
635531.4	4253109.1	2.05647E-05	3.8677E-05	4.13799E-05	5.2325E-05	0.000152947	0.58748	1.13055	0.67118	0.84871
635535.2	4253122.93	2.07576E-05	3.84057E-05	4.17418E-05	5.2568E-05	0.000153473	0.59299	1.12262	0.67705	0.85265
635539	4253136.76	2.09459E-05	3.81283E-05	4.20938E-05	5.27893E-05	0.000153957	0.59837	1.11451	0.68276	0.85624
635542.8	4253150.59	2.11297E-05	3.78433E-05	4.24348E-05	5.29872E-05	0.000154395	0.60362	1.10618	0.68829	0.85945
635546.6	4253164.42	2.13089E-05	3.75535E-05	4.27652E-05	5.31629E-05	0.000154791	0.60874	1.09771	0.69365	0.8623
634972.3	4252411.91	7.15536E-06	2.21221E-05	1.54791E-05	1.99193E-05	6.46758E-05	0.20441	0.64664	0.25107	0.32309
634958	4252409.47	7.08885E-06	2.16092E-05	1.5291E-05	1.96314E-05	6.36205E-05	0.20251	0.63165	0.24802	0.31842
634943.7	4252407.02	7.02444E-06	2.11364E-05	1.51092E-05	1.93533E-05	6.26234E-05	0.20067	0.61783	0.24507	0.31391
634811.8	4253095.39	1.26203E-05	0.000310647	2.73848E-05	3.94927E-05	0.000390145	0.36053	9.08038	0.44418	0.64057
634808.9	4253119.73	1.29704E-05	0.000446787	2.8259E-05	4.105E-05	0.000529067	0.37053	13.05984	0.45836	0.66583
634806	4253144.08	1.33411E-05	0.000628393	2.95062E-05	4.32615E-05	0.000714502	0.38112	18.36829	0.47859	0.7017
634803.2	4253168.43	1.37244E-05	0.000782316	3.03423E-05	4.47998E-05	0.000871183	0.39207	22.86754	0.49215	0.72665
634800.3	4253192.78	1.41266E-05	0.000893694	3.12011E-05	4.63965E-05	0.000985418	0.40356	26.12317	0.50608	0.75255
634797.5	4253217.13	1.45488E-05	0.000971342	3.20272E-05	4.79533E-05	0.001065871	0.41562	28.39286	0.51948	0.7778
634794.6	4253241.48	1.49923E-05	0.001025138	3.28515E-05	4.95211E-05	0.001122503	0.42829	29.96535	0.53285	0.80323
634791.8	4253265.82	1.54603E-05	0.001064757	3.38053E-05	5.13368E-05	0.00116536	0.44166	31.12345	0.54832	0.83268
634788.9	4253290.17	1.59574E-05	0.001096686	3.49502E-05	5.35205E-05	0.001201114	0.45586	32.05673	0.56689	0.8681
634786	4253314.52	1.64821E-05	0.001120136	3.6137E-05	5.58047E-05	0.00122856	0.47085	32.7422	0.58614	0.90515
634783.2	4253338.87	1.70376E-05	0.001137983	3.73928E-05	5.82326E-05	0.001250646	0.48672	33.26387	0.60651	0.94453
634780.3	4253363.22	1.76267E-05	0.001152289	3.87436E-05	6.08682E-05	0.001269528	0.50355	33.68206	0.62842	0.98728
634777.5	4253387.57	1.82526E-05	0.001164345	4.01746E-05	6.36796E-05	0.001286451	0.52143	34.03444	0.65163	1.03288
634774.6	4253411.92	1.8917E-05	0.00117409	4.16376E-05	6.6568E-05	0.001301213	0.54041	34.31931	0.67536	1.07973
634771.8	4253436.26	1.96238E-05	0.001182339	4.31573E-05	6.95766E-05	0.001314697	0.5606	34.56042	0.70001	1.12853
634768.9	4253460.61	2.03799E-05	0.001190628	4.48411E-05	7.29176E-05	0.001328766	0.5822	34.80271	0.72732	1.18272
634766	4253484.96	2.11899E-05	0.001198247	4.67054E-05	7.66254E-05	0.001342767	0.60534	35.02542	0.75756	1.24286
634763.2	4253509.31	2.20587E-05	0.001204621	4.87079E-05	8.06063E-05	0.001355993	0.63016	35.21173	0.79004	1.30743
634760.3	4253533.66	2.29923E-05	0.001209856	5.08818E-05	8.48782E-05	0.001368608	0.65683	35.36477	0.8253	1.37672
634757.5	4253558.01	2.39987E-05	0.001214337	5.32048E-05	8.94571E-05	0.001380998	0.68558	35.49576	0.86298	1.45099
634754.6	4253582.36	2.50859E-05	0.001217578	5.57073E-05	9.4348E-05	0.001392719	0.71664	35.59047	0.90357	1.53032
634751.8	4253606.7	2.62639E-05	0.001219794	5.84027E-05	9.95533E-05	0.001404014	0.75029	35.65527	0.94729	1.61475
634748.9	4253631.05	2.75454E-05	0.001221301	6.13103E-05	0.000105074	0.001415231	0.7869	35.6993	0.99445	1.7043
634746	4253655.4	2.89435E-05	0.001221717	6.4441E-05	0.000110882	0.001425983	0.82684	35.71147	1.04523	1.7985
634743.2	4253679.75	3.04743E-05	0.001221405	6.78504E-05	0.000116902	0.001436632	0.87057	35.70236	1.10053	1.89615
634740.3	4253704.1	3.21573E-05	0.001220637	7.14219E-05	0.000122988	0.001447204	0.91865	35.6799	1.15846	1.99486
634737.5	4253728.45	3.40185E-05	0.001219718	7.53177E-05	0.000129309	0.001458364	0.97182	35.65305	1.22165	2.09739
634734.6	4253752.8	3.60876E-05	0.001218815	7.95446E-05	0.00013574	0.001470188	1.03093	35.62665	1.29021	2.2017
634731.8	4253777.14	3.83983E-05	0.001217644	8.40619E-05	0.000141997	0.001482101	1.09694	35.59242	1.36348	2.30318
634728.9	4253801.49	4.10016E-05	0.001216864	8.9089E-05	0.000148116	0.001495071	1.17131	35.56961	1.44502	2.40244
634726	4253825.84	4.39757E-05	0.001217918	9.51729E-05	0.000155738	0.001512805		35.60042	1.5437	2.52607
		4.73578E-05				0.001312003	1 25627			
634723.2	4253850.19	4 / 45 / XE=U5				0.001536705	1.25627			
634720.3	4253874.54		0.001217143	0.000101027	0.000161267	0.001526795	1.35289	35.57777	1.63865	2.61575
634717.5	7233077.37	5.12416E-05	0.001217143	0.000101027	0.000161267	0.001526795 0.001537559				
634714.6		5.12416E-05	0.001214784	0.0001072	0.000164333	0.001537559	1.35289 1.46384	35.57777 35.50882	1.63865 1.73878	2.61575 2.66547
	4253898.89	5.12416E-05 5.57401E-05	0.001214784 0.00120993	0.0001072 0.000113229	0.000164333 0.000164322	0.001537559 0.001543221	1.35289 1.46384 1.59235	35.57777 35.50882 35.36693	1.63865 1.73878 1.83657	2.61575 2.66547 2.66529
	4253898.89 4253923.24	5.12416E-05 5.57401E-05 6.0994E-05	0.001214784 0.00120993 0.001202396	0.0001072 0.000113229 0.000119185	0.000164333 0.000164322 0.000160778	0.001537559 0.001543221 0.001543353	1.35289 1.46384 1.59235 1.74244	35.57777 35.50882 35.36693 35.14671	1.63865 1.73878 1.83657 1.93318	2.61575 2.66547 2.66529 2.60781
634797.6	4253898.89 4253923.24 4253093.72	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05	0.001214784 0.00120993 0.001202396 0.000240504	0.0001072 0.000113229 0.000119185 2.70784E-05	0.000164333 0.000164322 0.000160778 3.88842E-05	0.001537559 0.001543221 0.001543353 0.000318958	1.35289 1.46384 1.59235 1.74244 0.35684	35.57777 35.50882 35.36693 35.14671 7.03006	1.63865 1.73878 1.83657 1.93318 0.43921	2.61575 2.66547 2.66529 2.60781 0.6307
	4253898.89 4253923.24	5.12416E-05 5.57401E-05 6.0994E-05	0.001214784 0.00120993 0.001202396	0.0001072 0.000113229 0.000119185	0.000164333 0.000164322 0.000160778	0.001537559 0.001543221 0.001543353	1.35289 1.46384 1.59235 1.74244	35.57777 35.50882 35.36693 35.14671	1.63865 1.73878 1.83657 1.93318	2.61575 2.66547 2.66529 2.60781
634797.6 634794.7	4253898.89 4253923.24 4253093.72 4253118.07	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465
634797.6 634794.7 634791.9	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878
634797.6 634794.7 634791.9 634789	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304
634797.6 634794.7 634791.9	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878
634797.6 634794.7 634791.9 634789	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304
634797.6 634794.7 634791.9 634789 634786.1 634783.3	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634774.7	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.24613E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634774.7	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000797506	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.55833E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.24613E-05 5.4563E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634774.7 634771.9 634769	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6829E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.55833E-05 3.67597E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.24613E-05 5.4563E-05 5.68127E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634774.7	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000797506	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.55833E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.24613E-05 5.4563E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634774.7 634771.9 634769	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6829E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.55833E-05 3.67597E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.24613E-05 5.4563E-05 5.68127E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634770.6 634774.7 634771.9 634769 634766.1 634763.3	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6829E-05 1.74066E-05 1.80195E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000836843 0.000851872	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.67597E-05 3.80704E-05 3.94625E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.24613E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634774.7 634771.9 634769 634766.1 634763.3 634760.4	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253410.25	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6829E-05 1.74066E-05 1.80195E-05 1.86713E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000836843 0.000851872 0.00086492	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.55833E-05 3.67597E-05 3.80704E-05 3.94625E-05 4.09496E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.24613E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.4891E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634771.9 634769 634766.1 634763.3 634760.4 634757.6	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253410.25 4253434.6	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6285E-05 1.74066E-05 1.80195E-05 1.86713E-05 1.93626E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000836843 0.000851872 0.00086492 0.000875154	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.99728E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.67597E-05 3.80704E-05 4.09496E-05 4.23725E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.24613E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.4891E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634774.7 634771.9 634769 634766.1 634763.3 634760.4	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253410.25	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6829E-05 1.74066E-05 1.80195E-05 1.86713E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000836843 0.000851872 0.00086492	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.55833E-05 3.67597E-05 3.80704E-05 3.94625E-05 4.09496E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.24613E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.4891E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634774.7 634771.9 634769 634766.1 634763.3 634760.4 634757.6 634754.7	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253410.25 4253458.95	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6829E-05 1.74066E-05 1.80195E-05 1.86713E-05 1.93626E-05 2.01019E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000836843 0.000851872 0.00086492 0.000884954	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.67597E-05 3.80704E-05 3.94625E-05 4.09496E-05 4.23725E-05 4.39662E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.4891E-05 7.07579E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769
634797.6 634794.7 634789 634789 634786.1 634783.3 634780.4 634777.6 634774.7 634771.9 634769 634766.1 634763.3 634760.4 634757.6 634751.9	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253410.25 4253458.95 4253458.95 4253483.3	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6829E-05 1.74066E-05 1.80195E-05 1.86713E-05 1.93626E-05 2.01019E-05 2.08941E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000836843 0.000851872 0.00086492 0.000884954 0.000894103	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.55833E-05 3.67597E-05 3.80704E-05 3.94625E-05 4.09496E-05 4.23725E-05 4.39662E-05 4.57689E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.24613E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.76475E-05 7.07579E-05 7.42604E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.2045
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634774.7 634771.9 634769 634766.1 634763.3 634760.4 634757.6 634754.7 634751.9 634749	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253361.55 4253434.6 4253458.95 4253458.95 4253458.95 4253483.3 4253507.65	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.52828E-05 1.6285E-05 1.6285E-05 1.6829E-05 1.74066E-05 1.80195E-05 1.86713E-05 1.93626E-05 2.01019E-05 2.08941E-05 2.17426E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000851872 0.000851872 0.00086492 0.000884954 0.000894103 0.000902121	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.67597E-05 3.80704E-05 3.94625E-05 4.09496E-05 4.23725E-05 4.39662E-05 4.57689E-05 4.77042E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.24613E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.4891E-05 7.07579E-05 7.42604E-05 7.80095E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026 0.001049577	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689 0.62113	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513 26.36949	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237 0.77376	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.2045 1.26531
634797.6 634794.7 634789 634789 634786.1 634783.3 634780.4 634777.6 634774.7 634771.9 634769 634766.1 634763.3 634760.4 634757.6 634751.9	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253410.25 4253458.95 4253458.95 4253483.3	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6829E-05 1.74066E-05 1.80195E-05 1.86713E-05 1.93626E-05 2.01019E-05 2.08941E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000836843 0.000851872 0.00086492 0.000884954 0.000894103	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.55833E-05 3.67597E-05 3.80704E-05 3.94625E-05 4.09496E-05 4.23725E-05 4.39662E-05 4.57689E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.24613E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.76475E-05 7.07579E-05 7.42604E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.2045
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634774.7 634771.9 634769 634766.1 634763.3 634760.4 634757.6 634754.7 634751.9 634749	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253410.25 4253458.95 4253458.95 4253458.95 4253458.95 4253531.99	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6829E-05 1.74066E-05 1.80195E-05 1.86713E-05 1.93626E-05 2.01019E-05 2.17426E-05 2.26538E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000836843 0.000851872 0.00086492 0.000875154 0.000894103 0.000909176	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.90728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.55833E-05 3.67597E-05 3.80704E-05 3.94625E-05 4.09496E-05 4.23725E-05 4.39662E-05 4.57689E-05 4.77042E-05 4.97733E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.4563E-05 5.4563E-05 5.93306E-05 6.20094E-05 6.4891E-05 7.07579E-05 7.42604E-05 7.80095E-05 8.19971E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026 0.001049577 0.001063601	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689 0.62113 0.64716	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513 26.36949 26.57573	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237 0.77376 0.80732	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.2045 1.26531 1.32999
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634771.9 6347769 634766.1 634763.3 634760.4 634757.6 634754.7 634751.9 634749 634743.3	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253410.25 4253458.95 4253458.95 4253458.95 4253458.95 4253556.34	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6285E-05 1.74066E-05 1.80195E-05 1.80195E-05 1.86713E-05 2.01019E-05 2.08941E-05 2.17426E-05 2.26538E-05 2.36353E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000851872 0.000851872 0.00086492 0.000875154 0.000884954 0.000894103 0.000902121 0.000909176 0.000915208	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.99728E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.55833E-05 3.67597E-05 3.80704E-05 4.9496E-05 4.23725E-05 4.39662E-05 4.57689E-05 4.77042E-05 4.97733E-05 5.20328E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.4563E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.4891E-05 7.07579E-05 7.42604E-05 7.80095E-05 8.19971E-05 8.62752E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.0007316837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026 0.001049577 0.001063601 0.001077151	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689 0.62113 0.64716 0.6752	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513 26.36949 26.57573 26.75203	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237 0.77376 0.80732 0.84397	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.2045 1.26531 1.32999 1.39938
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634774.7 634769 634766.1 634763.3 634760.4 634757.6 634751.9 634749 634749.1 634743.3 634740.4	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253410.25 4253458.95 4253458.95 4253458.95 4253531.99 4253556.34 4253580.69	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6829E-05 1.74066E-05 1.80195E-05 1.80195E-05 1.86713E-05 2.01019E-05 2.01019E-05 2.17426E-05 2.26538E-05 2.36353E-05 2.46953E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000851872 0.000851872 0.00086492 0.000875154 0.000884954 0.000894103 0.000902121 0.000909176 0.000915208 0.000920363	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.99728E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.67597E-05 3.80704E-05 4.09496E-05 4.23725E-05 4.39662E-05 4.57689E-05 4.77042E-05 4.97733E-05 5.20328E-05 5.44484E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.4563E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.76475E-05 7.07579E-05 7.42604E-05 7.80095E-05 8.62752E-05 9.0827E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026 0.001049577 0.001063601 0.001077151 0.001090334	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689 0.62113 0.64716 0.6752 0.70548	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513 26.36949 26.57573 26.75203 26.90273	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237 0.77376 0.80732 0.84397 0.88315	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.26531 1.32999 1.39938 1.47321
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634771.9 6347769 634766.1 634763.3 634760.4 634757.6 634754.7 634751.9 634749 634743.3	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253410.25 4253458.95 4253458.95 4253458.95 4253458.95 4253556.34	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6285E-05 1.74066E-05 1.80195E-05 1.80195E-05 1.86713E-05 2.01019E-05 2.08941E-05 2.17426E-05 2.26538E-05 2.36353E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000851872 0.000851872 0.00086492 0.000875154 0.000884954 0.000894103 0.000902121 0.000909176 0.000915208	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.99728E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.55833E-05 3.67597E-05 3.80704E-05 4.9496E-05 4.23725E-05 4.39662E-05 4.57689E-05 4.77042E-05 4.97733E-05 5.20328E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.4563E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.4891E-05 7.07579E-05 7.42604E-05 7.80095E-05 8.19971E-05 8.62752E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.0007316837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026 0.001049577 0.001063601 0.001077151	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689 0.62113 0.64716 0.6752	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513 26.36949 26.57573 26.75203	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237 0.77376 0.80732 0.84397	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.2045 1.26531 1.32999 1.39938
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634774.7 634769 634766.1 634763.3 634760.4 634757.6 634751.9 634749 634749.1 634743.3 634740.4	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253410.25 4253458.95 4253458.95 4253458.95 4253531.99 4253556.34 4253580.69	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6829E-05 1.74066E-05 1.80195E-05 1.80195E-05 1.86713E-05 2.01019E-05 2.01019E-05 2.17426E-05 2.26538E-05 2.36353E-05 2.46953E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000851872 0.000851872 0.00086492 0.000875154 0.000884954 0.000894103 0.000902121 0.000909176 0.000915208 0.000920363	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.99728E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.67597E-05 3.80704E-05 4.09496E-05 4.23725E-05 4.39662E-05 4.57689E-05 4.77042E-05 4.97733E-05 5.20328E-05 5.44484E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.4563E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.76475E-05 7.07579E-05 7.42604E-05 7.80095E-05 8.62752E-05 9.0827E-05	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026 0.001049577 0.001063601 0.001077151 0.001090334	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689 0.62113 0.64716 0.6752 0.70548	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513 26.36949 26.57573 26.75203 26.90273	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237 0.77376 0.80732 0.84397 0.88315	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.26531 1.32999 1.39938 1.47321
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634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634771.9 634769 634766.1 634763.3 634760.4 634757.6 634751.9 634749 634749.1 634743.3 634740.4 634737.6 634731.9	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 4253653.34 4253507.65 4253556.34 4253580.69 4253605.04 4253629.39 4253653.74	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6285E-05 1.6829E-05 1.80195E-05 1.80195E-05 1.86713E-05 2.01019E-05 2.01019E-05 2.17426E-05 2.26538E-05 2.36353E-05 2.46953E-05 2.58428E-05 2.70893E-05 2.84482E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000836843 0.000851872 0.00086492 0.000875154 0.000884954 0.000894103 0.000902121 0.000909176 0.000915208 0.00092363 0.000928412 0.000931377	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.99728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.67597E-05 3.80704E-05 4.09496E-05 4.23725E-05 4.39662E-05 4.57689E-05 4.77042E-05 4.97733E-05 5.20328E-05 5.44484E-05 5.70526E-05 5.98596E-05 6.2912E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.4563E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.4891E-05 6.76475E-05 7.07579E-05 7.42604E-05 7.80095E-05 8.19971E-05 8.62752E-05 9.0827E-05 9.56532E-05 0.000100735 0.000106116	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026 0.001049577 0.001063601 0.001077151 0.001090334 0.001103405 0.001116096 0.001128853	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689 0.62113 0.64716 0.6752 0.70548 0.73826 0.77387 0.81269	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513 26.36949 26.57573 26.75203 26.90273 27.03407 27.138 27.22468	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237 0.77376 0.80732 0.84397 0.88315 0.92539 0.97092 1.02043	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.26531 1.32999 1.39938 1.47321 1.55149 1.63392 1.72119
634797.6 634794.7 634789 634789 634786.1 634783.3 634780.4 634777.6 634771.9 634769 634766.1 634763.3 634760.4 634757.6 634754.7 634751.9 634749 634740.4 634731.9 634731.9 634729	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253458.95 4253458.95 4253458.95 4253458.95 4253507.65 42535507.65 42535507.65 42535507.65 42535507.65 42535507.65 42535507.65 42535507.65	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6285E-05 1.6285E-05 1.74066E-05 1.80195E-05 1.86713E-05 1.93626E-05 2.01019E-05 2.08941E-05 2.17426E-05 2.26538E-05 2.36353E-05 2.46953E-05 2.58428E-05 2.70893E-05 2.84482E-05 2.99345E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.000771218 0.000771218 0.000797506 0.00081873 0.000851872 0.000851872 0.000875154 0.000884954 0.000894103 0.000909176 0.000915208 0.000920363 0.000924857 0.00092361	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.99728E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.67597E-05 3.80704E-05 4.23725E-05 4.23725E-05 4.39662E-05 4.57689E-05 4.77042E-05 4.97733E-05 5.20328E-05 5.44484E-05 5.70526E-05 6.2912E-05 6.62714E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.4563E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.4891E-05 7.07579E-05 7.42604E-05 7.80095E-05 8.62752E-05 9.0827E-05 9.56532E-05 0.000100735 0.000106116 0.000111728	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000791331 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026 0.001049577 0.001063601 0.001077151 0.001090334 0.001103405 0.001116096 0.001128853 0.001141695	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689 0.62113 0.64716 0.6752 0.70548 0.73826 0.73826 0.77387 0.81269 0.85515	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513 26.36949 26.57573 26.75203 26.90273 27.03407 27.138 27.22468 27.29435	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237 0.77376 0.80732 0.84397 0.88315 0.92539 0.97092 1.02043 1.07492	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.2045 1.26531 1.32999 1.39938 1.47321 1.55149 1.63392 1.72119 1.81223
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634771.9 634769 634766.1 634763.3 634760.4 634757.6 634751.9 634749 634749.1 634743.3 634740.4 634737.6 634731.9	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 4253653.34 4253507.65 4253556.34 4253580.69 4253605.04 4253629.39 4253653.74	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6285E-05 1.6829E-05 1.80195E-05 1.80195E-05 1.86713E-05 2.01019E-05 2.01019E-05 2.17426E-05 2.26538E-05 2.36353E-05 2.46953E-05 2.58428E-05 2.70893E-05 2.84482E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000836843 0.000851872 0.00086492 0.000875154 0.000884954 0.000894103 0.000902121 0.000909176 0.000915208 0.00092363 0.000928412 0.000931377	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.99728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.67597E-05 3.80704E-05 4.09496E-05 4.23725E-05 4.39662E-05 4.57689E-05 4.77042E-05 4.97733E-05 5.20328E-05 5.44484E-05 5.70526E-05 5.98596E-05 6.2912E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.4563E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.4891E-05 6.76475E-05 7.07579E-05 7.42604E-05 7.80095E-05 8.19971E-05 8.62752E-05 9.0827E-05 9.56532E-05 0.000100735 0.000106116	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026 0.001049577 0.001063601 0.001077151 0.001090334 0.001103405 0.001116096 0.001128853	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689 0.62113 0.64716 0.6752 0.70548 0.73826 0.77387 0.81269	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513 26.36949 26.57573 26.75203 26.90273 27.03407 27.138 27.22468	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237 0.77376 0.80732 0.84397 0.88315 0.92539 0.97092 1.02043	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.26531 1.32999 1.39938 1.47321 1.55149 1.63392 1.72119
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634774.7 634769 634769 634766.1 634763.3 634760.4 634757.6 634754.7 634751.9 634749 634749.1 634740.4 634737.6 634731.9 634729 634729	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253410.25 4253458.95 4253458.95 4253458.95 4253458.95 4253507.65 4253531.99 4253556.34 4253505.04 4253629.39 4253678.08 4253702.43	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.52828E-05 1.6285E-05 1.6285E-05 1.6829E-05 1.74066E-05 1.80195E-05 1.80195E-05 2.01019E-05 2.01019E-05 2.17426E-05 2.17426E-05 2.26538E-05 2.36353E-05 2.46953E-05 2.58428E-05 2.70893E-05 2.89345E-05 3.15682E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000643849 0.000695626 0.000771218 0.000771218 0.000797506 0.00081873 0.000851872 0.000851872 0.00086492 0.000875154 0.000884954 0.000894103 0.000902121 0.000909176 0.000915208 0.000920363 0.000924857 0.000928412 0.000933761 0.000933777	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.99728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.67597E-05 3.80704E-05 4.09496E-05 4.23725E-05 4.39662E-05 4.57689E-05 4.77042E-05 4.97733E-05 5.20328E-05 5.44484E-05 5.70526E-05 5.98596E-05 6.2912E-05 6.62714E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.4563E-05 5.4563E-05 5.68127E-05 6.20094E-05 6.20094E-05 6.76475E-05 7.07579E-05 7.42604E-05 7.80095E-05 8.62752E-05 9.0827E-05 9.0827E-05 9.56532E-05 0.000100735 0.000111728 0.000117488	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026 0.001049577 0.001063601 0.001077151 0.001090334 0.001103405 0.001116096 0.001128853 0.001141695 0.001154675	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689 0.62113 0.64716 0.6752 0.70548 0.73826 0.77387 0.81269 0.85515 0.90182	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513 26.36949 26.57573 26.75203 26.90273 27.03407 27.138 27.22468 27.29435 27.35329	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237 0.77376 0.80732 0.84397 0.88315 0.92539 0.97092 1.02043 1.07492 1.13283	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.26531 1.32999 1.39938 1.47321 1.55149 1.63392 1.72119 1.81223 1.90565
634797.6 634794.7 634789 634789.6 634786.1 634783.3 634780.4 634777.6 634771.9 634769.6 634766.1 634763.3 634760.4 634757.6 634754.7 634751.9 634749.1 634743.3 634740.4 634737.6 634731.9 634729.6 634726.1 634723.3	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 42535507.65 4253531.99 4253556.34 4253580.69 4253605.04 4253629.39 4253678.08 4253702.43 4253702.43	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6829E-05 1.80195E-05 1.80195E-05 1.86713E-05 2.01019E-05 2.01019E-05 2.08941E-05 2.17426E-05 2.26538E-05 2.36353E-05 2.46953E-05 2.58428E-05 2.70893E-05 2.84482E-05 2.99345E-05 3.15682E-05 3.33702E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000851872 0.000851872 0.000875154 0.000884954 0.000894103 0.000902121 0.000909176 0.000915208 0.000920363 0.000924857 0.000933761 0.000935777 0.000937142	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.99728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.55833E-05 3.67597E-05 3.80704E-05 4.09496E-05 4.23725E-05 4.39662E-05 4.57689E-05 4.77042E-05 4.97733E-05 5.20328E-05 5.44484E-05 5.70526E-05 5.98596E-05 6.2912E-05 6.62714E-05 6.98417E-05 7.36623E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 5.03534E-05 5.24613E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.4891E-05 7.07579E-05 7.07579E-05 7.42604E-05 7.80095E-05 8.19971E-05 8.62752E-05 9.0827E-05 9.0827E-05 0.000100735 0.000106116 0.000117488 0.000123249	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026 0.00104577 0.001063601 0.001077151 0.001090334 0.001103405 0.001116096 0.001128853 0.001141695 0.001154675 0.001167424	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689 0.62113 0.64716 0.6752 0.70548 0.73826 0.77387 0.81269 0.85515 0.90182 0.9533	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513 26.36949 26.57573 26.75203 26.90273 27.03407 27.138 27.22468 27.29435 27.35329 27.39319	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237 0.77376 0.80732 0.84397 0.88315 0.92539 0.97092 1.02043 1.07492 1.13283 1.1948	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.2045 1.26531 1.32999 1.39938 1.47321 1.55149 1.63392 1.72119 1.81223 1.90565 1.99909
634797.6 634794.7 634789 634789.1 634783.3 634780.4 634777.6 634771.9 634769.1 634763.3 634760.4 634757.6 634754.7 634751.9 634749.1 634749.3 634740.4 634737.6 634731.9 634729.1 634729.4	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253434.6 4253458.95 4253458.95 4253458.95 4253458.95 4253556.34 4253507.65 4253531.99 4253556.34 4253580.69 4253605.04 4253629.39 4253678.08 4253726.78 4253726.78 4253751.13	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.52828E-05 1.6285E-05 1.6285E-05 1.6285E-05 1.80195E-05 1.80195E-05 1.80195E-05 2.01019E-05 2.08941E-05 2.17426E-05 2.17426E-05 2.36353E-05 2.36353E-05 2.46953E-05 2.58428E-05 2.70893E-05 2.84482E-05 2.99345E-05 3.15682E-05 3.33702E-05 3.5369E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000851872 0.000851872 0.00086492 0.000875154 0.000884954 0.000894103 0.000902121 0.000909176 0.000915208 0.000924857 0.000928412 0.000933771 0.00093777 0.000937142 0.000938227	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.99728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.67597E-05 3.80704E-05 4.09496E-05 4.23725E-05 4.39662E-05 4.57689E-05 4.77042E-05 4.77042E-05 5.20328E-05 5.20328E-05 5.44484E-05 5.70526E-05 5.98596E-05 6.2912E-05 6.62714E-05 7.36623E-05 7.77308E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.4563E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.4891E-05 6.76475E-05 7.07579E-05 7.42604E-05 7.80095E-05 8.62752E-05 9.0827E-05 9.0827E-05 9.56532E-05 0.00010735 0.00010735 0.000117488 0.000123249 0.000128974	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000791331 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026 0.001049577 0.001063601 0.001077151 0.001090334 0.001103405 0.0011180302	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689 0.62113 0.64716 0.6752 0.70548 0.73826 0.73826 0.77387 0.81269 0.85515 0.90182 0.9533 1.0104	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513 26.36949 26.57573 26.75203 26.90273 27.03407 27.138 27.22468 27.29435 27.39319 27.42491	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237 0.77376 0.80732 0.84397 0.88315 0.92539 0.92539 0.97092 1.02043 1.07492 1.13283 1.1948 1.26079	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.2045 1.26531 1.32999 1.39938 1.47321 1.55149 1.63392 1.72119 1.81223 1.90565 1.99909 2.09196
634797.6 634794.7 634789 634789.6 634786.1 634783.3 634780.4 634777.6 634771.9 634769.6 634766.1 634763.3 634760.4 634757.6 634754.7 634751.9 634749.1 634743.3 634740.4 634737.6 634731.9 634729.6 634726.1 634723.3	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 42535507.65 4253531.99 4253556.34 4253580.69 4253605.04 4253629.39 4253678.08 4253702.43 4253702.43	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.52828E-05 1.57708E-05 1.6285E-05 1.6829E-05 1.80195E-05 1.80195E-05 1.86713E-05 2.01019E-05 2.01019E-05 2.08941E-05 2.17426E-05 2.26538E-05 2.36353E-05 2.46953E-05 2.58428E-05 2.70893E-05 2.84482E-05 2.99345E-05 3.15682E-05 3.33702E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000851872 0.000851872 0.000875154 0.000884954 0.000894103 0.000902121 0.000909176 0.000915208 0.000920363 0.000924857 0.000933761 0.000935777 0.000937142	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.99728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.55833E-05 3.67597E-05 3.80704E-05 4.09496E-05 4.23725E-05 4.39662E-05 4.57689E-05 4.77042E-05 4.97733E-05 5.20328E-05 5.44484E-05 5.70526E-05 5.98596E-05 6.2912E-05 6.62714E-05 6.98417E-05 7.36623E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 5.03534E-05 5.24613E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.4891E-05 7.07579E-05 7.07579E-05 7.42604E-05 7.80095E-05 8.19971E-05 8.62752E-05 9.0827E-05 9.0827E-05 0.000100735 0.000106116 0.000117488 0.000123249	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026 0.00104577 0.001063601 0.001077151 0.001090334 0.001103405 0.001116096 0.001128853 0.001141695 0.001154675 0.001167424	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689 0.62113 0.64716 0.6752 0.70548 0.73826 0.77387 0.81269 0.85515 0.90182 0.9533	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513 26.36949 26.57573 26.75203 26.90273 27.03407 27.138 27.22468 27.29435 27.35329 27.39319	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237 0.77376 0.80732 0.84397 0.88315 0.92539 0.97092 1.02043 1.07492 1.13283 1.1948	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.2045 1.26531 1.32999 1.39938 1.47321 1.55149 1.63392 1.72119 1.81223 1.90565 1.99909
634797.6 634794.7 634789 634789.1 634783.3 634780.4 634777.6 634771.9 634769.1 634763.3 634760.4 634757.6 634754.7 634751.9 634749.1 634749.3 634740.4 634737.6 634731.9 634729.1 634729.4	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253385.9 4253434.6 4253458.95 4253458.95 4253458.95 4253458.95 4253556.34 4253507.65 4253531.99 4253556.34 4253580.69 4253605.04 4253629.39 4253678.08 4253726.78 4253726.78 4253751.13	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.52828E-05 1.6285E-05 1.6285E-05 1.6285E-05 1.80195E-05 1.80195E-05 1.80195E-05 2.01019E-05 2.08941E-05 2.17426E-05 2.17426E-05 2.36353E-05 2.36353E-05 2.46953E-05 2.58428E-05 2.70893E-05 2.84482E-05 2.99345E-05 3.15682E-05 3.33702E-05 3.5369E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000495787 0.000577894 0.000643849 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000851872 0.000851872 0.00086492 0.000875154 0.000884954 0.000894103 0.000902121 0.000909176 0.000915208 0.000924857 0.000928412 0.000933771 0.00093777 0.000937142 0.000938227	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.99728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.44785E-05 3.67597E-05 3.80704E-05 4.09496E-05 4.23725E-05 4.39662E-05 4.57689E-05 4.77042E-05 4.77042E-05 5.20328E-05 5.20328E-05 5.44484E-05 5.70526E-05 5.98596E-05 6.2912E-05 6.62714E-05 7.36623E-05 7.77308E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.4563E-05 5.4563E-05 5.68127E-05 5.93306E-05 6.20094E-05 6.4891E-05 6.76475E-05 7.07579E-05 7.42604E-05 7.80095E-05 8.62752E-05 9.0827E-05 9.0827E-05 9.56532E-05 0.00010735 0.00010735 0.000117488 0.000123249 0.000128974	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000791331 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026 0.001049577 0.001063601 0.001077151 0.001090334 0.001103405 0.0011180302	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689 0.62113 0.64716 0.6752 0.70548 0.73826 0.73826 0.77387 0.81269 0.85515 0.90182 0.9533 1.0104	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513 26.36949 26.57573 26.75203 26.90273 27.03407 27.138 27.22468 27.29435 27.39319 27.42491	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237 0.77376 0.80732 0.84397 0.88315 0.92539 0.92539 0.97092 1.02043 1.07492 1.13283 1.1948 1.26079	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.2045 1.26531 1.32999 1.39938 1.47321 1.55149 1.63392 1.72119 1.81223 1.90565 1.99909 2.09196
634797.6 634794.7 634791.9 634789 634786.1 634783.3 634780.4 634777.6 634771.9 634769 634766.1 634763.3 634760.4 634757.6 634754.7 634751.9 634749 634740.4 634743.3 634740.4 634737.6 634731.9 634729 634729 634720.4 634717.6	4253898.89 4253923.24 4253093.72 4253118.07 4253142.42 4253166.77 4253191.11 4253215.46 4253239.81 4253264.16 4253288.51 4253312.86 4253337.21 4253361.55 4253458.95 4253458.95 4253458.95 4253458.95 4253458.95 4253556.34 4253580.69 4253653.74 4253678.08 4253702.43 4253775.48	5.12416E-05 5.57401E-05 6.0994E-05 1.24912E-05 1.28349E-05 1.3199E-05 1.3576E-05 1.39719E-05 1.4386E-05 1.48218E-05 1.52828E-05 1.52828E-05 1.52828E-05 1.6285E-05 1.6829E-05 1.80195E-05 1.80195E-05 1.80195E-05 2.01019E-05 2.01019E-05 2.08941E-05 2.17426E-05 2.26538E-05 2.36353E-05 2.36353E-05 2.36353E-05 2.58428E-05 2.70893E-05 2.84482E-05 2.99345E-05 3.15682E-05 3.5369E-05 3.75985E-05	0.001214784 0.00120993 0.001202396 0.000240504 0.000310878 0.000402747 0.000495787 0.000577894 0.000695626 0.00073732 0.000771218 0.000797506 0.00081873 0.000851872 0.000851872 0.000875154 0.000884954 0.000894103 0.000902121 0.000909176 0.000915208 0.000920363 0.000920363 0.000924857 0.000933761 0.000935777 0.000937142 0.000938227 0.000939171	0.0001072 0.000113229 0.000119185 2.70784E-05 2.79131E-05 2.99728E-05 2.99304E-05 3.08299E-05 3.15833E-05 3.23755E-05 3.33595E-05 3.55833E-05 3.67597E-05 3.80704E-05 4.09496E-05 4.23725E-05 4.39662E-05 4.57689E-05 4.77042E-05 4.97733E-05 5.20328E-05 5.44484E-05 5.70526E-05 5.98596E-05 6.2912E-05 6.62714E-05 6.98417E-05 7.36623E-05 7.77308E-05 8.22598E-05	0.000164333 0.000164322 0.000160778 3.88842E-05 4.03608E-05 4.24046E-05 4.39607E-05 4.5608E-05 4.70192E-05 4.85081E-05 5.03534E-05 5.4563E-05 5.4563E-05 6.20094E-05 6.20094E-05 6.76475E-05 7.07579E-05 7.42604E-05 7.80095E-05 8.19971E-05 8.62752E-05 9.0827E-05 9.0827E-05 0.000100735 0.000106116 0.000117488 0.000123249 0.000138974 0.000138447	0.001537559 0.001543221 0.001543353 0.000318958 0.000391987 0.000487424 0.000583254 0.000668303 0.000736837 0.000791331 0.000836315 0.000873929 0.000903937 0.000929132 0.000951651 0.000971363 0.000989432 0.001004537 0.00101978 0.001035026 0.001049577 0.001063601 0.001077151 0.001090334 0.001090334 0.001103405 0.001128853 0.001141695 0.001154675 0.001180302 0.001193499	1.35289 1.46384 1.59235 1.74244 0.35684 0.36666 0.37706 0.38783 0.39914 0.41097 0.42342 0.43659 0.45053 0.46522 0.48076 0.49726 0.51477 0.53339 0.55314 0.57426 0.59689 0.62113 0.64716 0.6752 0.70548 0.73826 0.77387 0.81269 0.85515 0.90182 0.9533 1.0104 1.07409	35.57777 35.50882 35.36693 35.14671 7.03006 9.08715 11.77253 14.49212 16.89215 18.82006 20.33353 21.55226 22.54314 23.31153 23.93194 24.46139 24.90068 25.2821 25.58125 25.86769 26.13513 26.36949 26.57573 26.75203 26.90273 27.03407 27.138 27.22468 27.29435 27.35329 27.39319 27.42491 27.45249	1.63865 1.73878 1.83657 1.93318 0.43921 0.45275 0.47156 0.48547 0.50006 0.51228 0.52513 0.54109 0.55924 0.57716 0.59624 0.6175 0.64008 0.6642 0.68728 0.71313 0.74237 0.77376 0.80732 0.84397 0.88315 0.92539 0.97092 1.02043 1.07492 1.13283 1.1948 1.26079 1.33425	2.61575 2.66547 2.66529 2.60781 0.6307 0.65465 0.6878 0.71304 0.73976 0.76265 0.7868 0.81673 0.85092 0.88501 0.9215 0.96234 1.00579 1.05253 1.09724 1.14769 1.26531 1.32999 1.39938 1.47321 1.55149 1.63392 1.72119 1.81223 1.90565 1.99909 2.09196 2.1811

624700	4252040.52	4 646475 05	0.000044440	0.001105.05	0.000140043	0.004335036	4 24072	27 54024	4 50040	2 44 422
634709	4253848.52	4.61617E-05	0.000941419	9.86119E-05	0.000148843	0.001235036	1.31872	27.51821	1.59948	2.41423
634706.1	4253872.87	4.98551E-05	0.000940961	0.000104395	0.000150591	0.001245802	1.42423	27.50482	1.69328	2.44258
634703.3	4253897.22	5.41155E-05	0.000938984	0.000110595	0.000149383	0.001253076	1.54594	27.44701	1.79384	2.42298
634700.4	4253921.57	5.90547E-05	0.00093505	0.000116043	0.0001442	0.001254348	1.68704	27.33203	1.88221	2.33892
634791.8	4253077.4	1.22181E-05	0.000187927	2.64101E-05	3.76807E-05	0.000264236	0.34904	5.4932	0.42837	0.61118
634816.7	4253058.77	1.2131E-05	0.000198485	2.63065E-05	3.75827E-05	0.000274505	0.34655	5.80182	0.42669	0.60959
634783.4	4253092.06	1.23711E-05	0.000196611	2.67522E-05	3.82516E-05	0.000273986	0.35341	5.74704	0.43392	0.62044
634780.5	4253116.4	1.27092E-05	0.000239741	2.75284E-05	3.96166E-05	0.000319595	0.36307	7.00775	0.44651	0.64258
634777.7	4253140.75	1.30666E-05	0.000294639	2.86117E-05	4.15143E-05	0.000377832	0.37328	8.61247	0.46408	0.67336
634774.8	4253165.1	1.34384E-05	0.000352855	2.94452E-05	4.30131E-05	0.000438752	0.3839	10.31415	0.4776	0.69767
634772	4253189.45	1.38284E-05	0.000409215	3.03201E-05	4.45981E-05	0.000497961	0.39504	11.96158	0.49179	0.72338
634769.1	4253213.8	1.42365E-05	0.000459981	3.10938E-05	4.60254E-05	0.000551336	0.4067	13.44549	0.50434	0.74653
634766.2	4253238.15	1.4666E-05	0.000504157	3.19175E-05	4.75494E-05	0.00059829	0.41897	14.7368	0.5177	0.77125
634763.4	4253262.5	1.51207E-05			4.94446E-05					0.80199
			0.000542456	3.29421E-05		0.000639964	0.43196	15.8563	0.53432	
634760.5	4253286.84	1.56003E-05	0.000574451	3.40229E-05	5.14582E-05	0.000675532	0.44566	16.79152	0.55185	0.83465
634757.7	4253311.19	1.61054E-05	0.000600708	3.50772E-05	5.34403E-05	0.000705331	0.46009	17.55903	0.56895	0.8668
634754.8	4253335.54	1.66403E-05	0.000622669	3.61999E-05	5.556E-05	0.000731069	0.47537	18.20095	0.58716	0.90118
634752	4253359.89	1.72074E-05	0.000641501	3.74323E-05	5.78953E-05	0.000754036	0.49157	18.75143	0.60715	0.93906
634749.1	4253384.24	1.78095E-05	0.000657719	3.87856E-05	6.04687E-05	0.000774783	0.50877	19.2255	0.6291	0.9808
634746.2	4253408.59	1.84494E-05	0.00067177	4.02264E-05	6.32178E-05	0.000793664	0.52705	19.63622	0.65247	1.02539
634743.4	4253432.93	1.91281E-05	0.000683385	4.16154E-05	6.58454E-05	0.000809973	0.54644	19.97571	0.675	1.06801
634740.5	4253457.28	1.98531E-05	0.000693799	4.31505E-05	6.87579E-05	0.00082556	0.56715	20.28012	0.6999	1.11525
634737.7	4253481.63	2.06295E-05	0.000703564	4.48774E-05	7.20729E-05	0.000841144	0.58933	20.56558	0.72791	1.16902
634734.8	4253505.98	2.14608E-05	0.000712252	4.67492E-05	7.56112E-05	0.000856073	0.61308	20.81951	0.75827	1.22641
634732	4253530.33	2.23535E-05	0.000712252	4.87418E-05	7.93849E-05	0.000870548	0.63858	21.04799	0.79059	1.28762
634729.1	4253554.68	2.3314E-05	0.000726884	5.09243E-05	8.33942E-05	0.000884516	0.66602	21.24721	0.82599	1.35265
634726.2	4253579.03	2.43508E-05	0.000733026	5.32899E-05	8.77166E-05	0.000898383	0.69564	21.42676	0.86436	1.42276
634723.4	4253603.37	2.54734E-05	0.00073868	5.58898E-05	9.23936E-05	0.000912437	0.72771	21.59202	0.90653	1.49862
634720.5	4253627.72	2.66909E-05	0.00074338	5.8645E-05	9.71975E-05	0.000925913	0.76249	21.7294	0.95122	1.57654
634717.7	4253652.07	2.80162E-05	0.000747435	6.16161E-05	0.000102203	0.00093927	0.80035	21.84794	0.99941	1.65773
634714.8	4253676.42	2.94651E-05	0.000751016	6.49379E-05	0.000107365	0.000952783	0.84174	21.95261	1.05329	1.74145
634712	4253700.77	3.10543E-05	0.000753922	6.84009E-05	0.000112565	0.000965942	0.88714	22.03756	1.10946	1.8258
634709.1	4253725.12	3.28052E-05	0.000756412	7.20717E-05	0.000117789	0.000979078	0.93716	22.11035	1.169	1.91053
634706.2	4253749.47	3.47442E-05	0.000758528	7.62844E-05	0.000122865	0.000992421	0.99255	22.17219	1.23733	1.99286
634703.4	4253773.81	3.69005E-05	0.000750328	8.0613E-05	0.00012756	0.001005452	1.05415	22.22628	1.30754	2.06902
634700.5	4253798.16	3.93197E-05	0.000762342	8.55625E-05	0.000132071	0.001019295	1.12326	22.28368	1.38782	2.14219
634697.7	4253822.51	4.20357E-05	0.000763457	9.06661E-05	0.000135069	0.001031228	1.20085	22.31628	1.4706	2.19081
634694.8	4253846.86	4.51147E-05	0.000764327	9.58276E-05	0.000136902	0.001042171	1.28881	22.34171	1.55432	2.22054
634692	4253871.21	4.86306E-05	0.000764735	0.000101944	0.000137236	0.001052546	1.38925	22.35363	1.65352	2.22597
634689.1	4253895.56	5.26632E-05	0.000764187	0.000108079	0.000134883	0.001059812	1.50445	22.33761	1.75304	2.18779
634686.2	4253919.91	5.72926E-05	0.000762039	0.000113772	0.000128209	0.001061313	1.6367	22.27483	1.84538	2.07954
634769.2	4253090.39	1.22605E-05	0.000166417	2.64236E-05	3.76246E-05	0.000242726	0.35025	4.86446	0.42859	0.61027
634766.3	4253114.74	1.25941E-05	0.000195575	2.71696E-05	3.89274E-05	0.000274267	0.35978	5.71678	0.44069	0.6314
634763.5	4253139.09	1.29462E-05	0.000231786	2.81739E-05	4.06771E-05	0.000313583	0.36984	6.77523	0.45698	0.65978
634760.6	4253163.44	1.33127E-05	0.000231780	2.89859E-05	4.21228E-05	0.0003155681	0.38031	7.92906	0.47015	0.68323
634757.8	4253187.78	1.36971E-05	0.00031077	2.98361E-05	4.36487E-05	0.000397952	0.39129	9.08399	0.48394	0.70798
634754.9	4253212.13	1.41007E-05	0.000348598	3.06813E-05	4.51838E-05	0.000438564	0.40282	10.18971	0.49765	0.73288
634752	4253236.48	1.4525E-05	0.000383887	3.15445E-05	4.67628E-05	0.00047672	0.41494	11.22124	0.51165	0.75849
634749.2	4253260.83	1.49723E-05	0.00041593	3.2481E-05	4.84829E-05	0.000511866	0.42772	12.15787	0.52684	0.78639
634746.3	4253285.18	1.54449E-05	0.000444395	3.35229E-05	5.04033E-05	0.000543766	0.44122	12.9899	0.54374	0.81754
634743.5	4253309.53	1.59437E-05	0.000469149	3.46006E-05	5.24046E-05	0.000572098	0.45547	13.71349	0.56122	0.85
634740.6	4253333.88	1.64705E-05	0.000490562	3.57109E-05	5.44773E-05	0.000597221	0.47052	14.33941	0.57923	0.88362
634737.8	4253358.22	1.70275E-05	0.00050876	3.68275E-05	5.65692E-05	0.000619185	0.48643	14.87135	0.59734	0.91755
634734.9	4253382.57	1.76201E-05	0.000525077	3.81413E-05	5.90347E-05	0.000639873	0.50336	15.34828	0.61865	0.95754
634732	4253406.92	1.82498E-05	0.000539399	3.95476E-05	6.16802E-05	0.000658877	0.52135	15.76694	0.64146	1.00045
634729.2	4253431.27	1.89184E-05	0.000551621	4.09138E-05	6.42412E-05	0.000675694	0.54045	16.12418	0.66362	1.04199
634726.3	4253455.62	1.96311E-05	0.00056245	4.2407E-05	6.70119E-05	0.0006915	0.56081	16.44072	0.68784	1.08693
634723.5	4253479.97	2.03932E-05	0.000572302	4.40568E-05	7.00754E-05	0.000706827	0.58258	16.7287	0.7146	1.13662
634720.6	4253504.32	2.12098E-05	0.000581339	4.58565E-05	7.34268E-05	0.000721832	0.60591	16.99287	0.74379	1.19098
634717.8	4253528.66	2.20857E-05	0.000589357	4.7801E-05	7.69817E-05	0.000736225	0.63093	17.22723	0.77533	1.24864
634714.9	4253553.01	2.30277E-05	0.000596549	4.98922E-05	8.07474E-05	0.000750216	0.65784	17.43746	0.80925	1.30972
634712.1	4253577.36	2.40452E-05	0.000603341	5.2277E-05	8.49447E-05	0.000764608	0.68691	17.63599	0.84793	1.3778
634709.2	4253601.71	2.51469E-05	0.000609568	5.49237E-05	8.95896E-05	0.000779228	0.71838	17.818	0.89086	1.45314
634706.3	4253626.06	2.63384E-05	0.000614751	5.76537E-05	9.40829E-05	0.000792826	0.75242	17.96951	0.93514	1.52602
634703.5	4253650.41	2.76347E-05	0.000619319	6.05439E-05	9.86939E-05	0.000806192	0.78945	18.10305	0.98202	1.60081
634700.6	4253674.76	2.90485E-05	0.000623361	6.37505E-05	0.000103321	0.000819482	0.82984	18.22119	1.03403	1.67587
634697.8	4253699.1	3.05968E-05	0.00062682	6.69996E-05	0.000103321	0.000832357	0.87407	18.32229	1.08673	1.75079
634694.9	4253723.45	3.22998E-05	0.000629851	7.06858E-05	0.00010754	0.000845284	0.92272	18.41089	1.14652	1.8239
634692.1	4253725.45	3.41809E-05	0.000632569	7.46889E-05	0.000112448	0.000858086	0.97646	18.49035	1.14032	1.89201
634689.2	4253772.15	3.62665E-05	0.000634849	7.88794E-05	0.000120276	0.000870271	1.03604	18.55699	1.27942	1.95087
634686.3	4253796.5	3.85926E-05	0.000636945	8.35138E-05	0.000123198	0.000882249	1.10249	18.61825	1.35459	1.99826
634683.5	4253820.85	4.11998E-05	0.000638587	8.83325E-05	0.000125154	0.000893273	1.17697	18.66626	1.43275	2.02999
634680.6	4253845.19	4.41391E-05	0.000639988	9.35335E-05	0.000125858	0.000903519	1.26094	18.70721	1.51711	2.04141
634677.8	4253869.54	4.74758E-05	0.000641004	9.93856E-05	0.000124996	0.000912861	1.35626	18.7369	1.61203	2.02743
634674.9	4253893.89	5.12756E-05	0.000641232	0.000105327	0.000121638	0.000919473	1.46481	18.74358	1.7084	1.97296
634672.1	4253918.24	5.55984E-05	0.000640339	0.000111179	0.000114316	0.000921433	1.5883	18.71747	1.80332	1.8542
634764.4	4253072.44	1.19867E-05	0.000140027	2.58281E-05	3.65648E-05	0.000214406	0.34243	4.09306	0.41893	0.59308
634773.8	4253056.15	1.18201E-05	0.000140027	2.5481E-05	3.59921E-05	0.000217700	0.33767	3.92943	0.4133	0.58379
634801.4	4253035.46	1.17158E-05	0.000134429	2.5461E-05 2.55574E-05	3.61832E-05	0.000207722	0.33469	4.08109	0.4133	0.58689
634819.7	4253031.05	1.1782E-05	0.000151022	2.59427E-05	3.68904E-05	0.000225637	0.33658	4.41447	0.42079	0.59836
634755	4253088.73	1.21593E-05	0.000144356	2.61191E-05	3.70476E-05	0.000219682	0.34736	4.21962	0.42365	0.60091
634752.1	4253113.07	1.24894E-05	0.0001655	2.69002E-05	3.83971E-05	0.000243287	0.35679	4.83766	0.43632	0.6228
634749.3	4253137.42	1.2836E-05	0.000190903	2.77572E-05	3.98885E-05	0.000271384	0.36669	5.58019	0.45022	0.64699
634746.4	4253161.77	1.31979E-05	0.000219112	2.85488E-05	4.12849E-05	0.000302143	0.37703	6.40476	0.46306	0.66964
634743.6	4253186.12	1.35777E-05	0.000248191	2.93768E-05	4.27578E-05	0.000333903	0.38788	7.25475	0.47649	0.69353
634740.7	4253210.47	1.39771E-05	0.000276854	3.02455E-05	4.43145E-05	0.000365392	0.39929	8.09261	0.49058	0.71878
634737.9	4253234.82	1.43972E-05	0.000304549	3.11585E-05	4.59625E-05	0.000396067	0.41129	8.90213	0.50539	0.74551
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634735	4253259.17	1.48386E-05	0.000330367	3.20704E-05	4.7621E-05	0.000424897	0.4239	9.6568	0.52018	0.77241
634732.1	4253283.51	1.53045E-05	0.000354503	3.30648E-05	4.94397E-05	0.000452312	0.43721	10.36231	0.53631	0.80191
634729.3	4253307.86	1.5797E-05	0.000376587	3.41493E-05	5.14354E-05	0.000477968	0.45128	11.00784	0.5539	0.83428
634726.4	4253332.21	1.63172E-05	0.000396348	3.52553E-05	5.34724E-05	0.000501393	0.46614	11.58546	0.57184	0.86732
634723.6	4253356.56	1.68671E-05	0.000413693	3.63521E-05	5.55032E-05	0.000522415	0.48185	12.09247	0.58963	0.90026
634720.7	4253380.91	1.74517E-05	0.00042951	3.76616E-05	5.79311E-05	0.000542555	0.49855	12.55483	0.61087	0.93964
634717.9	4253405.26	1.80717E-05	0.000443384	3.89606E-05	6.03392E-05	0.000560756	0.51626	12.96037	0.63194	0.9787
634715	4253429.61	1.87308E-05	0.000455619	4.03176E-05	6.28442E-05	0.000577511	0.53509	13.31799	0.65395	1.01933
634712.1	4253453.95	1.9433E-05	0.000466553	4.17732E-05	6.55174E-05	0.000593277	0.55515	13.6376	0.67756	1.06269
634709.3	4253478.3	2.01821E-05	0.000476281	4.32985E-05	6.82628E-05	0.000608024	0.57655	13.92195	0.7023	1.10722
634706.4	4253502.65	2.09855E-05	0.000485316	4.50605E-05	7.14429E-05	0.000622805	0.5995	14.18606	0.73088	1.1588
634703.6	4253527	2.18469E-05	0.000493433	4.6915E-05	7.47875E-05	0.000636982	0.62411	14.42331	0.76096	1.21305
634700.7	4253551.35	2.27725E-05	0.000500749	4.8957E-05	7.83122E-05	0.000650791	0.65055	14.63718	0.79408	1.27022
634697.9	4253575.7	2.37719E-05	0.000507734	5.13146E-05	8.23362E-05	0.000665157	0.6791	14.84135	0.83232	1.33549
634695	4253600.04	2.48528E-05	0.000514191	5.39533E-05	8.68233E-05	0.00067982	0.70998	15.03008	0.87512	1.40827
634692.1	4253624.39	2.60195E-05	0.000519555	5.65569E-05	9.08763E-05	0.000693008	0.74331	15.18689	0.91735	1.47401
634689.3	4253648.74	2.72867E-05	0.000524413	5.93602E-05	9.4946E-05	0.000706005	0.77951	15.32887	0.96282	1.54002
634686.4	4253673.09	2.86669E-05	0.000528699	6.23331E-05	9.90225E-05	0.000718721	0.81894	15.45416	1.01104	1.60614
634683.6	4253697.44	3.01753E-05	0.000532502	6.55236E-05	0.00010302	0.000731221	0.86203	15.56533	1.06279	1.67098
634680.7	4253721.79	3.183E-05	0.000535892	6.91272E-05	0.00010682	0.000743669	0.9093	15.66442	1.12124	1.73262
634677.9	4253746.14	3.3652E-05	0.000538948	7.28627E-05	0.000110277	0.000755739	0.96135	15.75374	1.18183	1.78869
634675	4253770.48	3.56655E-05	0.000541577	7.69916E-05	0.000113193	0.000767427	1.01887	15.83059	1.2488	1.83599
634672.1	4253794.83	3.7902E-05	0.00054387	8.12462E-05	0.00011536	0.000778378	1.08276	15.89762	1.31781	1.87114
634669.3	4253819.18	4.03975E-05	0.00054591	8.60699E-05	0.000116529	0.000788906	1.15405	15.95725	1.39605	1.89009
634666.4	4253843.53	4.31944E-05	0.000547613	9.13634E-05	0.00011642	0.000798591	1.23395	16.00704	1.48191	1.88832
634663.6	4253867.88	4.63451E-05	0.000549016	9.69682E-05	0.000114767	0.000807097	1.32396	16.04805	1.57282	1.86152
634660.7	4253892.23	4.99055E-05	0.000549829	0.000102842	0.000110918	0.000813494	1.42567	16.07181	1.66809	1.79908
634657.9	4253916.58	5.393E-05	0.000549879	0.000108883	0.000103977	0.000816669	1.54064	16.07326	1.76608	1.6865
634740.8	4253087.06	1.20673E-05		2.58342E-05		0.000201918				0.59219
			0.000127506		3.651E-05		0.34473	3.72708	0.41903	
634738	4253111.41	1.23942E-05	0.0001436	2.66252E-05	3.78657E-05	0.000220486	0.35407	4.19752	0.43186	0.61418
634735.1	4253135.76	1.27362E-05	0.000162269	2.73626E-05	3.91475E-05	0.000241515	0.36384	4.74322	0.44382	0.63497
634732.2	4253160.11	1.30943E-05	0.000183218	2.81339E-05	4.04976E-05	0.000264944	0.37407	5.35557	0.45633	0.65687
634729.4	4253184.45	1.34696E-05	0.000205353	2.89403E-05	4.192E-05	0.000289683	0.38479	6.00258	0.46941	0.67994
634726.5	4253208.8	1.38644E-05	0.000227626	2.97868E-05	4.34237E-05	0.000314701	0.39607	6.65363	0.48314	0.70433
634723.7	4253233.15	1.42799E-05	0.000249424	3.0677E-05	4.50131E-05	0.000339394	0.40794	7.29079	0.49758	0.73011
634720.8	4253257.5	1.47168E-05	0.000270344	3.16111E-05	4.66925E-05	0.000363364	0.42042	7.90231	0.51273	0.75735
634718	4253281.85	1.51778E-05	0.000290404	3.2595E-05	4.84724E-05	0.000386649	0.43359	8.48866	0.52869	0.78622
634715.1	4253306.2	1.56644E-05	0.000309367	3.36333E-05	5.0359E-05	0.000409023	0.44749	9.04296	0.54553	0.81682
634712.2	4253330.55	1.61786E-05	0.000326911	3.47301E-05	5.23596E-05	0.000430179	0.46218	9.55578	0.56332	0.84927
634709.4	4253354.89	1.67226E-05	0.00034298	3.58904E-05	5.44804E-05	0.000450074	0.47772	10.02551	0.58214	0.88367
634706.5	4253379.24	1.72994E-05	0.000357722	3.71203E-05	5.67344E-05	0.000468876	0.4942	10.4564	0.60209	0.92023
634703.7	4253403.59	1.79117E-05	0.000370865	3.8428E-05	5.91253E-05	0.00048633	0.51169	10.84058	0.6233	0.95901
634700.8	4253427.94	1.85617E-05	0.000382686	3.97375E-05	6.15051E-05	0.00050249	0.53026	11.18611	0.64454	0.99761
634698	4253452.29	1.92545E-05	0.000393394	4.11438E-05	6.40415E-05	0.000517834	0.55005	11.49912	0.66735	1.03875
634695.1	4253476.64	1.99927E-05	0.000402953	4.25988E-05	6.65772E-05	0.000532122	0.57114	11.77854	0.69095	1.07988
634692.2	4253500.99	2.07828E-05	0.00041171	4.42215E-05	6.94139E-05	0.000546128	0.59371	12.03451	0.71727	1.12589
634689.4	4253525.33	2.16292E-05	0.000419718	4.60075E-05	7.24885E-05	0.000559843	0.61789	12.26859	0.74624	1.17576
	4253549.68	2.25404E-05								
634686.5			0.000427246	4.80421E-05	7.5946E-05	0.000573774	0.64392	12.48864	0.77924	1.23184
634683.7	4253574.03	2.3523E-05	0.000434289	5.04212E-05	7.98744E-05	0.000588107	0.67199	12.6945	0.81783	1.29556
634680.8	4253598.38	2.45815E-05	0.000440684	5.28503E-05	8.37789E-05	0.000601895	0.70223	12.88144	0.85723	1.35889
634678	4253622.73	2.57234E-05	0.000446155	5.53583E-05	8.74546E-05	0.000614691	0.73485	13.04135	0.89791	1.41851
634675.1	4253647.08	2.69615E-05	0.000451144	5.80865E-05	9.11698E-05	0.000627361	0.77022	13.18718	0.94216	1.47877
634672.2	4253671.43	2.83071E-05	0.000455597	6.09484E-05	9.48517E-05	0.000639704	0.80866	13.31734	0.98858	1.53849
634669.4	4253695.77	2.97735E-05	0.000459594	6.4052E-05	9.84121E-05	0.000651832	0.85055	13.4342	1.03892	1.59624
634666.5	4253720.12	3.13781E-05	0.000463234	6.74811E-05	0.000101741	0.000663834	0.89639	13.54058	1.09454	1.65023
634663.7	4253744.47	3.31388E-05	0.000466451	7.11099E-05	0.000104685	0.000675385	0.94669	13.63462	1.1534	1.69799
634660.8	4253768.82	3.50778E-05	0.000469318	7.50341E-05	0.000107071	0.000686501	1.00208	13.71842	1.21705	1.73669
						0.000697248				
634658	4253793.17	3.72211E-05	0.000471905	7.94256E-05	0.000108696		1.06331	13.79405	1.28828	1.76305
634655.1	4253817.52	3.95986E-05	0.000474145	8.40662E-05	0.000109323	0.000707133	1.13123	13.85951	1.36355	1.77322
634652.2	4253841.87	4.22464E-05	0.000476099	8.90989E-05	0.000108722	0.000716167	1.20687	13.91664	1.44518	1.76347
634649.4	4253866.21	4.52071E-05	0.000477774	9.46914E-05	0.000106698	0.00072437	1.29145	13.96559	1.53589	1.73063
634646.5	4253890.56	4.85291E-05	0.000478924	0.000100612	0.000102795	0.000730861	1.38635	13.99922	1.63193	1.66733
634643.7	4253914.91	5.22585E-05	0.000479638	0.000106307	9.6594E-05	0.000734798	1.49289	14.02008	1.7243	1.56675
634736.5	4253068.29	1.1797E-05	0.000475038	2.5206E-05	3.54169E-05	0.000734758	0.33701	3.26402	0.40884	0.57446
634746.3	4253051.19	1.16192E-05	0.000108504	2.49168E-05	3.49415E-05	0.000179981	0.33193	3.17163	0.40415	0.56675
634756.2	4253034.09	1.14487E-05	0.000104771	2.46641E-05	3.4526E-05	0.000175409	0.32706	3.0625	0.40005	0.56001
634785.2	4253012.36	1.13273E-05	0.000107672	2.4632E-05	3.45315E-05	0.000178162	0.32359	3.1473	0.39953	0.5601
634804.4	4253007.73	1.13819E-05	0.000114488	2.49076E-05	3.50476E-05	0.000185825	0.32515	3.34655	0.404	0.56847
634823.6	4253003.1	1.14477E-05	0.000120599	2.52023E-05	3.56E-05	0.000192849	0.32703	3.52518	0.40878	0.57743
634726.6	4253085.4	1.19836E-05	0.000114198	2.55623E-05	3.60007E-05	0.000187745	0.34234	3.33807	0.41462	0.58393
634723.8	4253109.74	1.23067E-05	0.000126714	2.6267E-05	3.72054E-05	0.000202493	0.35157	3.70393	0.42605	0.60347
634720.9	4253134.09	1.26452E-05	0.000141037	2.69877E-05	3.84477E-05	0.000219117	0.36124	4.12258	0.43774	0.62362
634718.1	4253158.44	1.29998E-05	0.000157129	2.77405E-05	3.97547E-05	0.000237624	0.37137	4.59296	0.44995	0.64482
634715.2	4253182.79	1.33719E-05	0.000174436	2.85284E-05	4.1132E-05	0.000257469	0.382	5.09887	0.46273	0.66716
634712.3	4253207.14	1.37629E-05	0.000192194	2.93533E-05	4.25858E-05	0.000277896	0.39317	5.61795	0.47611	0.69074
634709.5	4253231.49	1.41742E-05	0.000209735	3.02196E-05	4.41203E-05	0.000298249	0.40492	6.13068	0.49016	0.71563
634706.6	4253255.84	1.46069E-05	0.000226827	3.11296E-05	4.57424E-05	0.000318306	0.41728	6.63027	0.50492	0.74194
634703.8	4253280.18	1.50626E-05	0.000243387	3.20895E-05	4.74564E-05	0.000337996	0.4303	7.11434	0.52049	0.76974
634700.9	4253304.53	1.55439E-05	0.000243387	3.31E-05		0.000357264	0.44405	7.58086	0.53688	0.70374
					4.92726E-05					
634698.1	4253328.88	1.60526E-05	0.000274517	3.41672E-05	5.1195E-05	0.000375932	0.45858	8.02429	0.55419	0.83038
634695.2	4253353.23	1.65906E-05	0.000288802	3.52966E-05	5.32313E-05	0.000393921	0.47395	8.44185	0.57251	0.86341
634692.3	4253377.58	1.71608E-05	0.000302153	3.64939E-05	5.53904E-05	0.000411198	0.49024	8.83211	0.59193	0.89843
634689.5	4253401.93	1.77654E-05	0.000314435	3.77646E-05	5.76771E-05	0.000427642	0.50751	9.1911	0.61254	0.93552
634686.6	4253426.28	1.84081E-05	0.000314433	3.91259E-05		0.000427042	0.52587	9.51971	0.63462	0.97478
					6.00976E-05					
634683.8	4253450.62	1.90906E-05	0.000335893	4.04496E-05	6.24299E-05	0.000457863	0.54537	9.81834	0.65609	1.01261
634680.9	4253474.97	1.98194E-05	0.000345325	4.19378E-05	6.50304E-05	0.000472113	0.56619	10.09405	0.68023	1.05479
634678.1	4253499.32	2.05962E-05	0.000353713	4.34415E-05	6.7507E-05	0.000485258	0.58838	10.33923	0.70462	1.09496

634675.2	4253523.67	2.1429E-05	0.000361563	4.51518E-05	7.03584E-05	0.000498502	0.61217	10.56869	0.73236	1.14121
634672.3	4253548.02	2.23248E-05	0.000369058	4.71555E-05	7.37147E-05	0.000512253	0.63776	10.78777	0.76486	1.19565
634669.5	4253572.37	2.32891E-05	0.000376048	4.95001E-05	7.74842E-05	0.000526321	0.66531	10.99208	0.80289	1.25679
634666.6	4253596.72	2.43249E-05	0.000382291	5.18146E-05	8.09269E-05	0.000539357	0.6949	11.17458	0.84043	1.31263
634663.8	4253621.06	2.54405E-05	0.000387821	5.42326E-05	8.43276E-05	0.000551822	0.72677	11.33623	0.87965	1.36779
634660.9	4253645.41	2.66479E-05	0.00039283	5.68177E-05	8.77388E-05	0.000564034	0.76126	11.48263	0.92158	1.42312
634658.1	4253669.76	2.79567E-05	0.000397382	5.96148E-05	9.10921E-05	0.000576046	0.79865	11.6157	0.96695	1.47751
634655.2	4253694.11	2.938E-05	0.000401512	6.26321E-05	9.42993E-05	0.000587823	0.83931	11.73641	1.01589	1.52953
634652.3	4253718.46	3.09318E-05	0.000405286	6.59644E-05	9.72518E-05	0.000599434	0.88364	11.84673	1.06994	1.57742
634649.5	4253742.81	3.26278E-05	0.00040866	6.93991E-05	9.98042E-05	0.000610491	0.93209	11.94535		1.61882
									1.12565	
634646.6	4253767.15	3.44865E-05	0.000411688	7.33344E-05	0.000101794	0.000621303	0.98519	12.03387	1.18948	1.65109
634643.8	4253791.5	3.65319E-05	0.000414439	7.76063E-05	0.000103045	0.000631622	1.04362	12.11429	1.25877	1.67138
634640.9	4253815.85	3.87879E-05	0.000416855	8.21013E-05	0.00010336	0.000641104	1.10807	12.18489	1.33168	1.67649
634638.1	4253840.2	4.12859E-05	0.00041899	8.69756E-05	0.000102564	0.000649815	1.17943	12.24731	1.41074	1.66358
634635.2	4253864.55	4.40628E-05	0.000420898	9.24065E-05	0.000100486	0.000657853	1.25876	12.30307	1.49883	1.62988
634632.3	4253888.9	4.71489E-05	0.000422279	9.77469E-05	9.67703E-05	0.000663945	1.34692	12.34344	1.58545	1.56961
634629.5	4253913.25	5.05832E-05	0.00042339	0.000103302	9.11155E-05	0.000668391	1.44503	12.37593	1.67555	1.47789
634688.8	4253059.05	1.15152E-05	8.21243E-05	2.41363E-05	3.34989E-05	0.000151275	0.32896	2.40054	0.39149	0.54335
634700.6	4253038.53	1.12954E-05	8.03806E-05	2.37824E-05	3.29304E-05	0.000148389	0.32268	2.34957	0.38575	0.53413
634712.4	4253018	1.10857E-05	7.82264E-05	2.34384E-05	3.23774E-05	0.000145128	0.31669	2.2866	0.38017	0.52516
634724.2	4252997.48	1.08858E-05	7.57047E-05	2.31055E-05	3.18423E-05	0.000141538	0.31098	2.21289	0.37477	0.51648
634759.1	4252971.41	1.07217E-05	7.73885E-05	2.30297E-05	3.17707E-05	0.000142911	0.30629	2.26211	0.37354	0.51532
634782.1	4252965.85	1.07633E-05	8.15694E-05	2.32997E-05	3.22615E-05	0.000147894	0.30748	2.38432	0.37792	0.52328
634805.1	4252960.3	1.08207E-05	8.50281E-05	2.35944E-05	3.27997E-05	0.000152243	0.30912	2.48542	0.3827	0.53201
634828.2	4252954.74	1.08925E-05	8.81181E-05	2.39131E-05	3.33848E-05	0.000156308	0.31117	2.57574	0.38787	0.5415
634677	4253079.57	1.17456E-05	8.34202E-05	2.45013E-05	3.40839E-05	0.000153751	0.33554	2.43842	0.39741	0.55284
634674.1	4253103.92	1.20603E-05	8.9726E-05	2.51413E-05	3.51536E-05	0.000162081	0.34453	2.62274	0.40779	0.57019
						0.000171192				
634671.3	4253128.27	1.23897E-05	9.67173E-05	2.58089E-05	3.62757E-05		0.35394	2.8271	0.41862	0.58839
634668.4	4253152.61	1.27344E-05	0.000104412	2.65056E-05	3.74532E-05	0.000181105	0.36379	3.05202	0.42992	0.60749
634665.5	4253176.96	1.30961E-05	0.000112819	2.7235E-05	3.86906E-05	0.000191841	0.37412	3.29776	0.44175	0.62756
634662.7	4253201.31	1.34752E-05	0.00012178	2.79976E-05	3.99915E-05	0.000203245	0.38495	3.55971	0.45412	0.64866
634659.8	4253225.66	1.38735E-05	0.000131099	2.87985E-05	4.13595E-05	0.000215131	0.39633	3.83211	0.46711	0.67085
634657	4253250.01	1.42922E-05	0.000140519	2.96369E-05	4.28004E-05	0.000227249	0.40829	4.10745	0.48071	0.69422
634654.1	4253274.36	1.47329E-05	0.000149846	3.0521E-05	4.43176E-05	0.000239417	0.42088	4.38007	0.49505	0.71883
634651.3	4253298.71	1.51967E-05	0.000158957	3.14489E-05	4.59157E-05	0.000251518	0.43413	4.6464	0.5101	0.74475
634648.4	4253323.05	1.56854E-05	0.00016787	3.24292E-05	4.75994E-05	0.000263583	0.44809	4.90692	0.526	0.77206
634645.5	4253347.4	1.62017E-05	0.00017658	3.34637E-05	4.93744E-05	0.000275619	0.46284	5.16152	0.54278	0.80085
634642.7	4253371.75	1.67471E-05	0.000185101	3.45667E-05	5.12455E-05	0.00028766	0.47842	5.41061	0.56067	0.8312
634639.8	4253396.1	1.73239E-05	0.000193389	3.57307E-05	5.32153E-05	0.000299659	0.4949	5.65288	0.57955	0.86315
634637	4253420.45	1.79351E-05	0.000201428	3.6973E-05	5.52862E-05	0.000311622	0.51236	5.88784	0.5997	0.89674
634634.1	4253444.8	1.85827E-05	0.000209197	3.82843E-05	5.74613E-05	0.000323526	0.53086	6.11495	0.62097	0.93202
634631.3	4253469.15	1.92706E-05	0.000216628	3.96912E-05	5.97388E-05	0.000335329	0.55051	6.33217	0.64379	0.96896
634628.4	4253493.49	2.00008E-05	0.000223638	4.12091E-05	6.21142E-05	0.000346962	0.57137	6.53705	0.66841	1.00749
634625.5	4253517.84	2.07772E-05	0.000230264	4.27227E-05	6.43923E-05	0.000358156	0.59355	6.73075	0.69296	1.04444
634622.7	4253542.19	2.16058E-05	0.000236584	4.44526E-05	6.69311E-05	0.000369574	0.61722	6.91549	0.72102	1.08562
634619.8	4253566.54	2.24903E-05	0.000242525		6.95514E-05	0.000380888	0.64249	7.08915	0.75132	1.12812
				4.63207E-05						
634617	4253590.89	2.34372E-05	0.000248224	4.84588E-05	7.24016E-05	0.000392522	0.66954	7.25573	0.786	1.17435
634614.1	4253615.24	2.44489E-05	0.000253427	5.0563E-05	7.50569E-05	0.000403495	0.69844	7.4078	0.82013	1.21742
634611.3	4253639.59	2.55323E-05	0.00025824	5.29403E-05	7.76691E-05	0.000414382	0.72939	7.5485	0.85869	1.25979
634608.4	4253663.93	2.66948E-05	0.000262702	5.54558E-05	8.0179E-05	0.000425032	0.7626	7.67893	0.89949	1.3005
634605.5	4253688.28	2.79455E-05	0.000266854	5.8129E-05	8.25175E-05	0.000435446	0.79833	7.8003	0.94285	1.33843
634602.7	4253712.63	2.92921E-05	0.000270669	6.10834E-05	8.45896E-05	0.000445635	0.8368	7.91182	0.99077	1.37204
634599.8	4253736.98	3.07452E-05	0.000274183	6.42197E-05	8.62888E-05	0.000455437	0.87831	8.01452	1.04164	1.3996
634597	4253761.33	3.23152E-05	0.000277408	6.7502E-05	8.74891E-05	0.000464715	0.92316	8.1088	1.09488	1.41907
634594.1	4253785.68	3.40129E-05	0.000280377	7.10877E-05	8.8057E-05	0.000473535	0.97166	8.19559	1.15304	1.42828
634591.3	4253810.02	3.58486E-05	0.000283061	7.48344E-05	8.7851E-05	0.000481595	1.0241	8.27402	1.21381	1.42494
634588.4	4253834.37	3.78372E-05	0.000285497	7.87832E-05	8.67604E-05	0.000488878	1.08091	8.34523	1.27786	1.40725
634585.5	4253858.72	3.99914E-05	0.000287711	8.32764E-05	8.47203E-05	0.000495699	1.14245	8.40996	1.35074	1.37416
634582.7	4253883.07	4.23227E-05	0.000289607	8.78646E-05	8.17345E-05	0.000501528	1.20905	8.46536	1.42516	1.32573
634579.8	4253907.42	4.48459E-05	0.000291252	9.25113E-05	7.76192E-05	0.000506229	1.28113	8.51347	1.50053	1.25898
634638.6	4253054.2	1.13451E-05	6.48236E-05	2.32362E-05	3.18965E-05	0.000330223	0.3241	1.89483	0.37689	0.51736
634649.8	4253034.65	1.11323E-05	6.40104E-05	2.29088E-05	3.1386E-05	0.000129438	0.31802	1.87106	0.37158	0.50908
634661.1	4253015.11	1.09271E-05	6.29954E-05	2.25895E-05	3.08866E-05	0.000127399	0.31216	1.84139	0.3664	0.50098
634672.3	4252995.56	1.07294E-05	6.17891E-05	2.22781E-05	3.03977E-05	0.000125194	0.30651	1.80613	0.36135	0.49305
634683.6	4252976.02	1.05393E-05		2.19754E-05	2.99218E-05	0.000123134	0.30108	1.76494		
			6.038E-05						0.35644	0.48533
634694.8	4252956.47	1.03566E-05	5.88138E-05	2.16801E-05	2.94569E-05	0.000120307	0.29586	1.71916	0.35165	0.47779
634728	4252931.64	1.01871E-05	5.98227E-05	2.15808E-05	2.93373E-05	0.000120928	0.29102	1.74865	0.35004	0.47585
634750	4252926.35	1.02043E-05	6.23936E-05	2.17849E-05	2.9698E-05	0.000124081	0.29151	1.8238	0.35335	0.4817
634771.9	4252921.06	1.0234E-05	6.46389E-05	2.20075E-05	3.00926E-05	0.000126973	0.29236	1.88943	0.35696	0.4881
634793.8	4252915.77	1.02764E-05	6.64407E-05	2.22491E-05	3.05229E-05	0.000129489	0.29357	1.9421	0.36088	0.49508
634815.7	4252910.48	1.0331E-05	6.79156E-05	2.25105E-05	3.09915E-05	0.000131749	0.29513	1.98521	0.36512	0.50268
		1.03975E-05					0.29703			
634837.7	4252905.19		6.96309E-05	2.27929E-05	3.14982E-05	0.00013432		2.03535	0.3697	0.5109
634627.3	4253073.74	1.15646E-05	6.54356E-05	2.35716E-05	3.24156E-05	0.000132987	0.33037	1.91272	0.38233	0.52578
634624.5	4253098.09	1.18705E-05	6.92289E-05	2.41696E-05	3.33897E-05	0.000138659	0.33911	2.0236	0.39203	0.54158
634621.6	4253122.44	1.21901E-05	7.33435E-05	2.47923E-05	3.44082E-05	0.000144734	0.34824	2.14387	0.40213	0.5581
634618.7	4253146.79	1.25241E-05	7.77946E-05	2.54415E-05	3.54736E-05	0.000151234	0.35778	2.27398	0.41266	0.57538
634615.9	4253171.14	1.28734E-05	8.25954E-05	2.61203E-05	3.65889E-05	0.000158178	0.36776	2.41431	0.42367	0.59347
634613	4253195.48	1.32389E-05	8.77472E-05	2.68281E-05	3.77572E-05	0.000165571	0.3782	2.5649	0.43515	0.61242
634610.2	4253219.83	1.36218E-05	9.32049E-05	2.75691E-05	3.8981E-05	0.000173377	0.38914	2.72443	0.44717	0.63227
634607.3	4253244.18	1.40233E-05	9.89027E-05	2.83453E-05	4.0264E-05	0.000181535	0.40061	2.89098	0.45976	0.65308
634604.5	4253268.53	1.44444E-05	0.000104745	2.91591E-05	4.16092E-05	0.000189958	0.41264	3.06176	0.47296	0.6749
634601.6	4253292.88	1.48862E-05	0.000110616	3.00149E-05	4.30186E-05	0.000198536	0.42526	3.23338	0.48684	0.69776
634598.7	4253317.23	1.53507E-05	0.000116434	3.09181E-05	4.44958E-05	0.000207198	0.43853	3.40342	0.50149	0.72172
634595.9	4253341.58	1.58387E-05	0.000122153	3.18681E-05	4.60427E-05	0.000215903	0.45247	3.57061	0.5169	0.74681
634593	4253365.92	1.63519E-05	0.000127737	3.28645E-05	4.76604E-05	0.000224614	0.46713	3.73383	0.53306	0.77305
634590.2	4253390.27	1.6892E-05	0.000133196	3.39317E-05	4.93522E-05	0.000233371	0.48256	3.89338	0.55037	0.80049
634587.3	4253414.62	1.74615E-05	0.000138549	3.50574E-05	5.11167E-05	0.000242185	0.49883	4.04987	0.56863	0.82911

634584.5	4253438.97	1.80619E-05	0.000143809	3.62486E-05	5.29545E-05	0.000251074	0.51598	4.20361	0.58795	0.85892
634581.6	4253463.32	1.86954E-05	0.00014896	3.75198E-05	5.48602E-05	0.000260035	0.53408	4.35418	0.60857	0.88983
634578.7	4253487.67	1.93644E-05	0.000154006	3.8886E-05	5.68288E-05	0.000269085	0.55319	4.50168	0.63073	0.92176
634575.9	4253512.02	2.00715E-05	0.000158941	4.03355E-05	5.88528E-05	0.000278201	0.57339	4.64594	0.65424	0.95459
634573	4253536.36	2.08188E-05	0.000163701	4.18811E-05	6.09145E-05	0.000287315	0.59474	4.78507	0.67931	0.98803
634570.2	4253560.71	2.16114E-05	0.000168359	4.35322E-05	6.29996E-05	0.000296502	0.61738	4.92122	0.70609	1.02185
634567.3	4253585.06	2.24518E-05	0.000172867	4.53318E-05	6.50803E-05	0.000305731	0.64139	5.053	0.73528	1.0556
634564.5	4253609.41	2.33437E-05	0.000172307	4.72042E-05	6.71241E-05	0.000303751	0.66687	5.17914	0.76565	1.08875
634561.6	4253633.76	2.42913E-05	0.000177182	4.92332E-05	6.90865E-05	0.000314834	0.69394	5.29914	0.79856	1.12058
634558.7	4253658.11	2.52981E-05	0.000185193	5.13596E-05	7.09194E-05	0.00033277	0.7227	5.41329	0.83305	1.15031
634555.9	4253682.46	2.63692E-05	0.000188916	5.36894E-05	7.2568E-05	0.000341542	0.7533	5.52211	0.87084	1.17705
634553	4253706.8	2.75072E-05	0.000192386	5.61457E-05	7.39725E-05	0.000350011	0.78581	5.62354	0.91068	1.19983
634550.2	4253731.15	2.87181E-05	0.00019565	5.88029E-05	7.50779E-05	0.000358249	0.8204	5.71895	0.95378	1.21776
634547.3	4253755.5	3.00073E-05	0.00019872	6.15557E-05	7.58325E-05	0.000366116	0.85723	5.8087	0.99843	1.23
634544.5	4253779.85	3.13777E-05	0.000201573	6.44718E-05	7.61889E-05	0.000373611	0.89638	5.89209	1.04573	1.23578
634541.6	4253804.2	3.28353E-05	0.000204221	6.76253E-05	7.61099E-05	0.000380792	0.93802	5.9695	1.09688	1.2345
634538.7	4253828.55	3.43868E-05	0.000206669	7.08276E-05	7.55773E-05	0.000387461	0.98234	6.04105	1.14882	1.22586
634535.9	4253852.89	3.604E-05	0.000208929	7.42141E-05	7.46099E-05	0.000393793	1.02957	6.10711	1.20375	1.21017
634533	4253877.24	3.78071E-05	0.000210983	7.77721E-05	7.32647E-05	0.000399827	1.08005	6.16716	1.26146	1.18835
634530.2	4253901.59	3.97054E-05	0.000212844	8.15212E-05	7.16352E-05	0.000405706	1.13428	6.22154	1.32227	1.16192
634588.6	4253048.91	1.11897E-05	5.32005E-05	2.24205E-05	3.04323E-05	0.000117243	0.31966	1.55508	0.36366	0.49361
634599.5	4253029.91	1.09895E-05	5.27831E-05	2.21098E-05	2.99662E-05	0.000117213	0.31394	1.54288	0.35862	0.48605
634610.5	4253010.91	1.07938E-05	5.22511E-05	2.18083E-05	2.95124E-05	0.000113845	0.30835	1.52733	0.35373	0.47869
634621.4	4252991.91	1.06026E-05	5.16087E-05	2.15105E-05	2.90586E-05	0.000112781	0.30289	1.50855	0.3489	0.47133
634632.4	4252972.91	1.04168E-05	5.08543E-05	2.12374E-05	2.86468E-05	0.000111155	0.29758	1.4865	0.34447	0.46465
634643.3	4252953.9	1.02361E-05	4.99768E-05	2.09692E-05	2.82387E-05	0.000109421	0.29242	1.46085	0.34012	0.45803
634654.3	4252934.9	1.00615E-05	4.90042E-05	2.06961E-05	2.78194E-05	0.000107581	0.28743	1.43242	0.33569	0.45123
634665.2	4252915.9	9.8924E-06	4.79597E-05	2.04292E-05	2.74088E-05	0.00010569	0.2826	1.40189	0.33136	0.44457
634697.5	4252891.76	9.72087E-06	4.86737E-05	2.03157E-05	2.72639E-05	0.000105974	0.2777	1.42276	0.32952	0.44222
634718.8	4252886.61	9.72087E-06	5.04332E-05	2.04742E-05	2.75389E-05	0.000108167	0.2777	1.47419	0.33209	0.44668
634740.1	4252881.47	9.73067E-06	5.20377E-05	2.06468E-05	2.78373E-05	0.000110252	0.27798	1.52109	0.33489	0.45152
634761.4	4252876.33	9.75098E-06	5.33972E-05	2.08342E-05	2.81622E-05	0.000112145	0.27856	1.56083	0.33793	0.45679
634782.7	4252871.18	9.78213E-06	5.44776E-05	2.10364E-05	2.85149E-05	0.000113811	0.27945	1.59241	0.34121	0.46251
634804	4252866.04	9.82414E-06	5.53332E-05	2.12565E-05	2.88996E-05	0.000115313	0.28065	1.61742	0.34478	0.46875
634825.4	4252860.9	9.87665E-06	5.6157E-05	2.14933E-05	2.93157E-05	0.000116843	0.28215	1.6415	0.34862	0.4755
634846.7	4252855.75	9.9386E-06	5.73537E-05	2.17479E-05	2.9764E-05	0.000118804	0.28392	1.67648	0.35275	0.48277
634577.6	4253067.91	1.13938E-05	5.3519E-05	2.27343E-05	3.08977E-05	0.000118545	0.32549	1.56439	0.36875	0.48277
634574.8	4253092.26	1.16875E-05	5.60352E-05	2.32929E-05	3.17818E-05	0.000122797	0.33388	1.63794	0.37781	0.5155
634571.9	4253116.61	1.19937E-05	5.87255E-05	2.38737E-05	3.27023E-05	0.000127295	0.34263	1.71658	0.38723	0.53043
634569.1	4253140.96	1.2313E-05	6.16061E-05	2.44791E-05	3.36622E-05	0.00013206	0.35175	1.80078	0.39705	0.546
634566.2	4253165.31	1.26459E-05	6.46782E-05	2.51086E-05	3.46629E-05	0.000137096	0.36126	1.89058	0.40726	0.56223
634563.4	4253189.66	1.29931E-05	6.79484E-05	2.57652E-05	3.5706E-05	0.000142413	0.37118	1.98617	0.41791	0.57915
634560.5	4253214.01	1.33558E-05	7.1417E-05	2.64501E-05	3.67923E-05	0.000148015	0.38154	2.08756	0.42902	0.59677
634557.6	4253238.35	1.37338E-05	7.5067E-05	2.71653E-05	3.79243E-05	0.00015389	0.39234	2.19425	0.44062	0.61513
634554.8	4253262.7	1.41294E-05	7.88812E-05	2.79138E-05	3.91049E-05	0.000160029	0.40364	2.30574	0.45276	0.63428
634551.9	4253287.05	1.45425E-05	8.28086E-05	2.86998E-05	4.03343E-05	0.000166385	0.41544	2.42054	0.46551	0.65422
634549.1	4253311.4	1.49744E-05	8.68016E-05	2.95198E-05	4.16123E-05	0.000172908	0.42778	2.53726	0.47881	0.67495
634546.2	4253335.75	1.54267E-05	9.08115E-05	3.03836E-05	4.29428E-05	0.000179564	0.4407	2.65447	0.49282	0.69653
634543.4	4253360.1	1.58996E-05	9.4783E-05	3.12954E-05	4.43219E-05	0.0001863	0.45421	2.77056	0.50761	0.7189
634540.5	4253384.45	1.63949E-05	9.86878E-05	3.22485E-05	4.5751E-05	0.000193082	0.46836	2.8847	0.52307	0.74208
634537.6	4253408.79	1.6914E-05	0.000102511	3.3264E-05	4.72264E-05	0.000199915	0.48319	2.99645	0.53954	0.76601
634534.8	4253433.14	1.74587E-05	0.000102511	3.43355E-05	4.87467E-05	0.000135313	0.49875	3.10599	0.55692	0.79067
634531.9	4253457.49	1.80303E-05	0.000100238	3.54662E-05	5.03053E-05	0.000213721	0.51508	3.213	0.57526	0.73007
634529.1	4253481.84	1.86303E-05	0.000103513	3.66684E-05	5.18947E-05	0.000213721	0.53222	3.31779	0.59476	0.81333
634526.2	4253506.19	1.92615E-05	0.000117027	3.79483E-05	5.35051E-05	0.000227742	0.55025	3.42077	0.61552	0.86785
634523.4	4253530.54	1.99245E-05	0.000120481	3.9293E-05	5.51216E-05	0.00023482	0.56919	3.52174	0.63733	0.89407
634520.5	4253554.89	2.06218E-05	0.000123874	4.07362E-05	5.67289E-05	0.000241961	0.58911	3.62092	0.66074	0.92014
634517.7	4253579.23	2.13551E-05	0.000127208	4.22412E-05	5.8309E-05	0.000249113	0.61006	3.71836	0.68515	0.94577
634514.8	4253603.58	2.21266E-05	0.000130467	4.38676E-05	5.98392E-05	0.0002563	0.6321	3.81362	0.71153	0.97059
634511.9	4253627.93	2.29387E-05	0.00013365	4.55427E-05	6.12998E-05	0.000263431	0.6553	3.90665	0.7387	0.99428
634509.1	4253652.28	2.37932E-05	0.00013675	4.73657E-05	6.26691E-05	0.000270578	0.67971	3.99728	0.76827	1.01649
634506.2	4253676.63	2.46921E-05	0.00013976	4.92474E-05	6.39256E-05	0.000277625	0.70539	4.08527	0.79879	1.03687
634503.4	4253700.98	2.56369E-05	0.000142653	5.12887E-05	6.50452E-05	0.000284624	0.73238	4.16982	0.8319	1.05503
634500.5	4253725.33	2.663E-05	0.000145429	5.3362E-05	6.6007E-05	0.000291428	0.76075	4.25098	0.86553	1.07063
634497.7	4253749.67	2.76742E-05	0.000148089	5.55353E-05	6.67906E-05	0.000298089	0.79058	4.32873	0.90078	1.08334
634494.8	4253774.02	2.87734E-05	0.000150615	5.78941E-05	6.73787E-05	0.000304662	0.82198	4.40257	0.93904	1.09288
634491.9	4253798.37	2.9932E-05	0.000152999	6.02992E-05	6.77647E-05	0.000310995	0.85508	4.47226	0.97805	1.09914
634489.1	4253822.72	3.11576E-05	0.000155253	6.2859E-05	6.79515E-05	0.000317221	0.89009	4.53813	1.01957	1.10217
634486.2	4253847.07	3.24594E-05	0.000157378	6.55427E-05	6.79718E-05	0.000323352	0.92728	4.60025	1.0631	1.1025
634483.4	4253871.42	3.38449E-05	0.000157378	6.83744E-05	6.79046E-05	0.000329332	0.96686	4.6579	1.10903	1.1023
634480.5	4253895.76	3.53186E-05	0.00013933	7.13695E-05	6.78972E-05	0.000325474	1.00896	4.0379	1.15761	1.10141
		1.09979E-05	4.48069E-05	7.13695E-05 2.16166E-05	2.89773E-05	0.000335768				
634539.8	4253041.57						0.31418	1.30973	0.35062	0.47001
634551.6	4253021.04	1.07973E-05 1.05991E-05	4.455E-05	2.13034E-05	2.85328E-05	0.000105183	0.30845	1.30222	0.34554	0.4628
C24EC2 4	4252000 52	1 1154411 F-(15	4.42106E-05	2.10044E-05	2.81055E-05	0.00010392	0.30279	1.2923	0.34069	0.45587
634563.4	4253000.52		4 27227		2.76702E-05	0.000102566	0.29722	1.27991	0.33583	0.44881
634575.3	4252980	1.04042E-05	4.37867E-05	2.07047E-05		0.000:::-			~ · ·	
634575.3 634587.1	4252980 4252959.48	1.04042E-05 1.0213E-05	4.32814E-05	2.04199E-05	2.72553E-05	0.00010117	0.29176	1.26514	0.33121	0.44208
634575.3 634587.1 634598.9	4252980 4252959.48 4252938.96	1.04042E-05 1.0213E-05 1.00258E-05	4.32814E-05 4.2681E-05		2.72553E-05 2.68355E-05	9.96779E-05	0.28641	1.24759	0.3266	0.44208 0.43527
634575.3 634587.1	4252980 4252959.48	1.04042E-05 1.0213E-05	4.32814E-05	2.04199E-05	2.72553E-05					0.44208
634575.3 634587.1 634598.9	4252980 4252959.48 4252938.96	1.04042E-05 1.0213E-05 1.00258E-05	4.32814E-05 4.2681E-05	2.04199E-05 2.01357E-05	2.72553E-05 2.68355E-05	9.96779E-05	0.28641	1.24759	0.3266	0.44208 0.43527
634575.3 634587.1 634598.9 634610.7	4252980 4252959.48 4252938.96 4252918.44	1.04042E-05 1.0213E-05 1.00258E-05 9.84304E-06	4.32814E-05 4.2681E-05 4.19903E-05	2.04199E-05 2.01357E-05 1.98564E-05	2.72553E-05 2.68355E-05 2.64205E-05	9.96779E-05 9.81103E-05	0.28641 0.28119	1.24759 1.2274	0.3266 0.32207	0.44208 0.43527 0.42854
634575.3 634587.1 634598.9 634610.7 634622.5	4252980 4252959.48 4252938.96 4252918.44 4252897.91	1.04042E-05 1.0213E-05 1.00258E-05 9.84304E-06 9.66487E-06	4.32814E-05 4.2681E-05 4.19903E-05 4.12329E-05	2.04199E-05 2.01357E-05 1.98564E-05 1.95907E-05	2.72553E-05 2.68355E-05 2.64205E-05 2.6026E-05	9.96779E-05 9.81103E-05 9.65144E-05	0.28641 0.28119 0.2761	1.24759 1.2274 1.20526	0.3266 0.32207 0.31776	0.44208 0.43527 0.42854 0.42214
634575.3 634587.1 634598.9 634610.7 634622.5 634634.4	4252980 4252959.48 4252938.96 4252918.44 4252897.91 4252877.39	1.04042E-05 1.0213E-05 1.00258E-05 9.84304E-06 9.66487E-06 9.49194E-06	4.32814E-05 4.2681E-05 4.19903E-05 4.12329E-05 4.04262E-05	2.04199E-05 2.01357E-05 1.98564E-05 1.95907E-05 1.93336E-05	2.72553E-05 2.68355E-05 2.64205E-05 2.6026E-05 2.56419E-05	9.96779E-05 9.81103E-05 9.65144E-05 9.48936E-05	0.28641 0.28119 0.2761 0.27116	1.24759 1.2274 1.20526 1.18168	0.3266 0.32207 0.31776 0.31359	0.44208 0.43527 0.42854 0.42214 0.41591
634575.3 634587.1 634598.9 634610.7 634622.5 634634.4 634669.2	4252980 4252959.48 4252938.96 4252918.44 4252897.91 4252877.39 4252851.32	1.04042E-05 1.0213E-05 1.00258E-05 9.84304E-06 9.66487E-06 9.49194E-06 9.30641E-06	4.32814E-05 4.2681E-05 4.19903E-05 4.12329E-05 4.04262E-05 4.10382E-05	2.04199E-05 2.01357E-05 1.98564E-05 1.95907E-05 1.93336E-05 1.9206E-05	2.72553E-05 2.68355E-05 2.64205E-05 2.6026E-05 2.56419E-05 2.54822E-05	9.96779E-05 9.81103E-05 9.65144E-05 9.48936E-05 9.50328E-05	0.28641 0.28119 0.2761 0.27116 0.26586	1.24759 1.2274 1.20526 1.18168 1.19957	0.3266 0.32207 0.31776 0.31359 0.31152	0.44208 0.43527 0.42854 0.42214 0.41591 0.41332
634575.3 634587.1 634598.9 634610.7 634622.5 634634.4 634669.2 634692.2 634715.3	4252980 4252959.48 4252938.96 4252918.44 4252897.91 4252877.39 4252851.32 4252845.76 4252840.21	1.04042E-05 1.0213E-05 1.00258E-05 9.84304E-06 9.66487E-06 9.49194E-06 9.30641E-06 9.29486E-06 9.29241E-06	4.32814E-05 4.2681E-05 4.19903E-05 4.12329E-05 4.04262E-05 4.10382E-05 4.24539E-05 4.37559E-05	2.04199E-05 2.01357E-05 1.98564E-05 1.95907E-05 1.93336E-05 1.9206E-05 1.93496E-05 1.95025E-05	2.72553E-05 2.68355E-05 2.64205E-05 2.6026E-05 2.56419E-05 2.54822E-05 2.57288E-05 2.5989E-05	9.96779E-05 9.81103E-05 9.65144E-05 9.48936E-05 9.50328E-05 9.68271E-05 9.85398E-05	0.28641 0.28119 0.2761 0.27116 0.26586 0.26553 0.26546	1.24759 1.2274 1.20526 1.18168 1.19957 1.24095 1.27901	0.3266 0.32207 0.31776 0.31359 0.31152 0.31385 0.31633	0.44208 0.43527 0.42854 0.42214 0.41591 0.41332 0.41732 0.42154
634575.3 634587.1 634598.9 634610.7 634622.5 634634.4 634669.2 634692.2 634715.3 634738.3	4252980 4252959.48 4252938.96 4252918.44 4252897.91 4252877.39 4252851.32 4252845.76 4252840.21 4252834.65	1.04042E-05 1.0213E-05 1.00258E-05 9.84304E-06 9.66487E-06 9.49194E-06 9.30641E-06 9.29486E-06 9.29241E-06 9.30011E-06	4.32814E-05 4.2681E-05 4.19903E-05 4.12329E-05 4.04262E-05 4.10382E-05 4.24539E-05 4.37559E-05 4.48732E-05	2.04199E-05 2.01357E-05 1.98564E-05 1.95907E-05 1.93336E-05 1.9206E-05 1.93496E-05 1.95025E-05 1.96684E-05	2.72553E-05 2.68355E-05 2.64205E-05 2.6026E-05 2.56419E-05 2.54822E-05 2.57288E-05 2.5989E-05 2.62713E-05	9.96779E-05 9.81103E-05 9.65144E-05 9.48936E-05 9.50328E-05 9.68271E-05 9.85398E-05 0.000100113	0.28641 0.28119 0.2761 0.27116 0.26586 0.26553 0.26546 0.26568	1.24759 1.2274 1.20526 1.18168 1.19957 1.24095 1.27901 1.31167	0.3266 0.32207 0.31776 0.31359 0.31152 0.31385 0.31633 0.31902	0.44208 0.43527 0.42854 0.42214 0.41591 0.41332 0.41732 0.42154 0.42612
634575.3 634587.1 634598.9 634610.7 634622.5 634634.4 634669.2 634692.2 634715.3 634738.3 634761.3	4252980 4252959.48 4252938.96 4252918.44 4252897.91 4252877.39 4252851.32 4252845.76 4252840.21 4252834.65 4252829.1	1.04042E-05 1.0213E-05 1.00258E-05 9.84304E-06 9.66487E-06 9.49194E-06 9.30641E-06 9.29486E-06 9.29241E-06 9.30011E-06 9.31867E-06	4.32814E-05 4.2681E-05 4.19903E-05 4.12329E-05 4.04262E-05 4.10382E-05 4.24539E-05 4.37559E-05 4.48732E-05 4.57672E-05	2.04199E-05 2.01357E-05 1.98564E-05 1.95907E-05 1.93336E-05 1.9206E-05 1.93496E-05 1.95025E-05 1.96684E-05 1.98502E-05	2.72553E-05 2.68355E-05 2.64205E-05 2.6026E-05 2.56419E-05 2.54822E-05 2.57288E-05 2.5989E-05 2.62713E-05 2.65802E-05	9.96779E-05 9.81103E-05 9.65144E-05 9.48936E-05 9.50328E-05 9.68271E-05 9.85398E-05 0.000100113 0.000101516	0.28641 0.28119 0.2761 0.27116 0.26586 0.26553 0.26546 0.26568 0.26621	1.24759 1.2274 1.20526 1.18168 1.19957 1.24095 1.27901 1.31167 1.3378	0.3266 0.32207 0.31776 0.31359 0.31152 0.31385 0.31633 0.31902 0.32197	0.44208 0.43527 0.42854 0.42214 0.41591 0.41332 0.41732 0.42154 0.42612 0.43113
634575.3 634587.1 634598.9 634610.7 634622.5 634634.4 634669.2 634692.2 634715.3 634738.3	4252980 4252959.48 4252938.96 4252918.44 4252897.91 4252877.39 4252851.32 4252845.76 4252840.21 4252834.65	1.04042E-05 1.0213E-05 1.00258E-05 9.84304E-06 9.66487E-06 9.49194E-06 9.30641E-06 9.29486E-06 9.29241E-06 9.30011E-06	4.32814E-05 4.2681E-05 4.19903E-05 4.12329E-05 4.04262E-05 4.10382E-05 4.24539E-05 4.37559E-05 4.48732E-05	2.04199E-05 2.01357E-05 1.98564E-05 1.95907E-05 1.93336E-05 1.9206E-05 1.93496E-05 1.95025E-05 1.96684E-05	2.72553E-05 2.68355E-05 2.64205E-05 2.6026E-05 2.56419E-05 2.54822E-05 2.57288E-05 2.5989E-05 2.62713E-05	9.96779E-05 9.81103E-05 9.65144E-05 9.48936E-05 9.50328E-05 9.68271E-05 9.85398E-05 0.000100113	0.28641 0.28119 0.2761 0.27116 0.26586 0.26553 0.26546 0.26568	1.24759 1.2274 1.20526 1.18168 1.19957 1.24095 1.27901 1.31167	0.3266 0.32207 0.31776 0.31359 0.31152 0.31385 0.31633 0.31902	0.44208 0.43527 0.42854 0.42214 0.41591 0.41332 0.41732 0.42154 0.42612

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634830.4	4252812.43	9.44363E-06	4.7566E-05	2.04982E-05	2.76924E-05	0.0001052	0.26978	1.39038	0.33248	0.44917
634853.4	4252806.88	9.50699E-06	4.85075E-05	2.07516E-05	2.81308E-05	0.000106897	0.27159	1.4179	0.33659	0.45628
634528	4253062.09	1.11998E-05	4.49964E-05	2.19242E-05	2.94033E-05	0.000107524	0.31995	1.31527	0.35561	0.47692
634525.1	4253086.44	1.14785E-05	4.67726E-05	2.24674E-05	3.02393E-05	0.000110958	0.32791	1.36719	0.36442	0.49048
634522.3	4253110.78	1.17673E-05	4.86522E-05	2.30056E-05	3.10611E-05	0.000114486	0.33616	1.42213	0.37315	0.50381
634519.4	4253135.13	1.20673E-05	5.06508E-05	2.35389E-05	3.18663E-05	0.000118123	0.34473	1.48055	0.3818	0.51687
				2.41092E-05						
634516.6	4253159.48	1.23791E-05	5.27643E-05		3.27301E-05	0.000121983	0.35364	1.54233	0.39105	0.53088
634513.7	4253183.83	1.27033E-05	5.49962E-05	2.47115E-05	3.3645E-05	0.000126056	0.3629	1.60757	0.40082	0.54572
634510.8	4253208.18	1.30404E-05	5.73527E-05	2.53398E-05	3.45926E-05	0.000130325	0.37253	1.67645	0.41101	0.56109
634508	4253232.53	1.33908E-05	5.98326E-05	2.59927E-05	3.55728E-05	0.000134789	0.38254	1.74894	0.4216	0.57699
634505.1	4253256.88	1.37555E-05	6.24333E-05	2.66887E-05	3.66135E-05	0.000139491	0.39296	1.82496	0.43289	0.59387
634502.3	4253281.22	1.4135E-05	6.51363E-05	2.74187E-05	3.77029E-05	0.000144393	0.4038	1.90397	0.44473	0.61154
634499.4	4253305.57	1.45306E-05	6.79293E-05	2.81807E-05	3.88244E-05	0.000149465	0.4151	1.98561	0.45709	0.62973
634496.6	4253329.92	1.49426E-05	7.07883E-05	2.89625E-05	3.99446E-05	0.000154638	0.42687	2.06918	0.46977	0.6479
634493.7	4253354.27	1.53717E-05	7.36777E-05	2.97775E-05	4.10963E-05	0.000159923	0.43913	2.15364	0.48299	0.66658
634490.8	4253378.62	1.58198E-05	7.65706E-05	3.06326E-05	4.22763E-05	0.000165299	0.45193	2.2382	0.49686	0.68572
634488	4253402.97	1.62868E-05	7.94419E-05	3.15309E-05	4.34835E-05	0.000170743	0.46527	2.32213	0.51143	0.7053
634485.1	4253427.32	1.67744E-05	8.22667E-05	3.2468E-05	4.47116E-05	0.000176221	0.4792	2.4047	0.52663	0.72522
634482.3	4253451.66	1.7283E-05	8.5036E-05	3.34563E-05	4.59557E-05	0.000181731	0.49373	2.48565	0.54266	0.7454
634479.4	4253476.01	1.7814E-05	8.77476E-05	3.44859E-05	4.72116E-05	0.000187259	0.5089	2.56491	0.55936	0.76577
634476.6	4253500.36	1.83688E-05	9.04006E-05	3.55765E-05	4.84724E-05	0.000192818	0.52475	2.64246	0.57705	0.78622
634473.7	4253524.71	1.89478E-05	9.2989E-05	3.67116E-05	4.97282E-05	0.000198377	0.54129	2.71812	0.59546	0.80659
634470.8	4253549.06	1.95524E-05	9.55209E-05	3.79212E-05	5.09724E-05	0.000203967	0.55856	2.79213	0.61508	0.82677
634468	4253573.41	2.01839E-05	9.80063E-05	3.91715E-05	5.21968E-05	0.000209559	0.5766	2.86478	0.63536	0.84663
634465.1	4253597.76	2.08426E-05	0.000100441	4.05081E-05	5.33916E-05	0.000215184	0.59542	2.93595	0.65704	0.86601
634462.3	4253622.1	2.15294E-05	0.000102834	4.18799E-05	5.45476E-05	0.000220791	0.61504	3.00589	0.67929	0.88476
634459.4	4253646.45	2.2246E-05	0.000105178	4.33127E-05	5.56549E-05	0.000226392	0.63551	3.07442	0.70253	0.90272
634456.6	4253670.8	2.29933E-05	0.000107481	4.48522E-05	5.67042E-05	0.000232031	0.65686	3.14174	0.7275	0.91974
634453.7	4253695.15	2.37729E-05	0.00010973	4.64403E-05	5.76833E-05	0.000237627	0.67913	3.20748	0.75326	0.93562
634450.8	4253719.5	2.45875E-05	0.000111926	4.81025E-05	5.85877E-05	0.000243203	0.7024	3.27165	0.78022	0.95029
634448	4253743.85	2.54402E-05	0.000114068	4.98805E-05	5.94151E-05	0.000248804	0.72676	3.33427	0.80906	0.96371
634445.1	4253768.2	2.63353E-05	0.00011614	5.17159E-05	6.01685E-05	0.000254359	0.75233	3.39483	0.83883	0.97593
	4253792.54									
634442.3		2.72776E-05	0.00011814	5.36395E-05	6.08688E-05	0.000259926	0.77925	3.4533	0.87003	0.98729
634439.4	4253816.89	2.82735E-05	0.000120072	5.56549E-05	6.15557E-05	0.000265556	0.8077	3.50976	0.90272	0.99843
634436.6	4253841.24	2.9324E-05	0.000121916	5.77887E-05	6.22924E-05	0.000271321	0.83771	3.56368	0.93733	1.01038
634433.7	4253865.59	3.04315E-05	0.000123676	5.9986E-05	6.31574E-05	0.000277251	0.86935	3.61511	0.97297	1.02441
634430.8	4253889.94	3.15976E-05	0.000125346	6.22751E-05	6.42326E-05	0.000283451	0.90266	3.66392	1.0101	1.04185
		1.05316E-05		2.00999E-05						
634440.8	4253029.39		3.35122E-05		2.61789E-05	9.03226E-05	0.30086	0.97958	0.32602	0.42462
634452.9	4253008.34	1.03709E-05	3.34414E-05	1.98484E-05	2.58786E-05	8.95393E-05	0.29627	0.97751	0.32194	0.41975
634465	4252987.29	1.02088E-05	3.33343E-05	1.95975E-05	2.55685E-05	8.87091E-05	0.29164	0.97438	0.31787	0.41472
634477.2	4252966.24	1.00457E-05	3.31855E-05	1.93459E-05	2.52498E-05	8.78269E-05	0.28698	0.97003	0.31379	0.40955
634489.3	4252945.19	9.8819E-06	3.29918E-05	1.9095E-05	2.49242E-05	8.6893E-05	0.2823	0.96437	0.30972	0.40427
634501.4	4252924.15	9.71842E-06	3.27565E-05	1.88453E-05	2.45932E-05	8.59134E-05	0.27763	0.95749	0.30567	0.3989
634513.5	4252903.1	9.5553E-06	3.24715E-05	1.85962E-05	2.4259E-05	8.4882E-05	0.27297	0.94916	0.30163	0.39348
634525.7	4252882.05	9.39323E-06	3.21321E-05	1.83502E-05	2.39224E-05	8.3798E-05	0.26834	0.93924	0.29764	0.38802
634537.8	4252861	9.23255E-06	3.17438E-05	1.81067E-05	2.35845E-05	8.26676E-05	0.26375	0.92789	0.29369	0.38254
634549.9	4252839.95	9.07398E-06	3.132E-05	1.78656E-05	2.32479E-05	8.15075E-05	0.25922	0.9155	0.28978	0.37708
634562	4252818.91	8.91786E-06	3.08718E-05	1.76351E-05	2.29242E-05	8.0349E-05	0.25476	0.9024	0.28604	0.37183
634574.1	4252797.86	8.76419E-06	3.03994E-05	1.74014E-05	2.25907E-05	7.91556E-05	0.25037	0.88859	0.28225	0.36642
634609.9	4252771.11	8.59091E-06	3.08533E-05	1.72818E-05	2.24575E-05	7.91836E-05	0.24542	0.90186	0.28031	0.36426
634633.5	4252765.42	8.56851E-06	3.17794E-05	1.7386E-05	2.26394E-05	8.03733E-05	0.24478	0.92893	0.282	0.36721
634657.1	4252759.72	8.54856E-06	3.26566E-05	1.74933E-05	2.28219E-05	8.15203E-05	0.24421	0.95457	0.28374	0.37017
634680.7	4252754.02	8.53386E-06	3.34506E-05	1.76073E-05	2.3013E-05	8.26048E-05	0.24379	0.97778	0.28559	0.37327
634704.3	4252748.32	8.5265E-06	3.41341E-05	1.77312E-05	2.32171E-05	8.3609E-05	0.24358	0.99776	0.2876	0.37658
634727.9	4252742.63	8.5279E-06	3.46887E-05	1.78823E-05	2.34662E-05	8.45651E-05	0.24362	1.01397	0.29005	0.38062
634751.5	4252736.93	8.53841E-06	3.51105E-05	1.80333E-05	2.37146E-05	8.53969E-05	0.24392	1.0263	0.2925	0.38465
634775.2	4252731.23	8.55941E-06	3.54078E-05	1.81943E-05	2.39797E-05	8.61412E-05	0.24452	1.03499	0.29511	0.38895
634798.8	4252725.54	8.59021E-06	3.56278E-05	1.837E-05	2.42701E-05	8.68581E-05	0.2454	1.04142	0.29796	0.39366
634822.4	4252723.34	8.63117E-06	3.58714E-05	1.85617E-05	2.45876E-05	8.76519E-05	0.24657	1.04142	0.30107	0.39881
634846	4252714.14	8.68123E-06	3.62641E-05	1.87689E-05	2.49341E-05	8.86483E-05	0.248	1.06002	0.30443	0.40443
634869.6	4252708.45	8.74038E-06	3.6896E-05	1.89927E-05	2.53083E-05	8.99373E-05	0.24969	1.07849	0.30806	0.4105
634428.7	4253050.43	1.06905E-05	3.3555E-05	2.03472E-05	2.64631E-05	9.10557E-05	0.3054	0.98083	0.33003	0.42923
634425.8	4253074.78	1.09303E-05	3.45525E-05	2.07874E-05	2.70784E-05	9.33486E-05	0.31225	1.00999	0.33717	0.43921
634423	4253099.13	1.11781E-05	3.5596E-05	2.1251E-05	2.77276E-05	9.57527E-05	0.31933	1.04049	0.34469	0.44974
634420.1	4253123.48	1.14337E-05	3.66914E-05	2.17226E-05	2.83811E-05	9.82288E-05	0.32663	1.07251	0.35234	0.46034
634417.2	4253147.83	1.16973E-05	3.78392E-05	2.21918E-05	2.90217E-05	0.00010075	0.33416	1.10606	0.35995	0.47073
634414.4	4253172.18	1.19703E-05	3.90396E-05	2.2701E-05	2.97202E-05	0.000103431	0.34196	1.14115	0.36821	0.48206
634411.5	4253196.52	1.22517E-05	4.02914E-05	2.32121E-05	3.04088E-05	0.000106164	0.35	1.17774	0.3765	0.49323
634408.7	4253220.87	1.25433E-05	4.16024E-05	2.37572E-05	3.11444E-05	0.000109047	0.35833	1.21606	0.38534	0.50516
634405.8	4253245.22	1.2844E-05	4.29691E-05	2.43225E-05	3.18977E-05	0.000112033	0.36692	1.25601	0.39451	0.51738
634403	4253269.57	1.31552E-05	4.43919E-05	2.48885E-05	3.26339E-05	0.000115069	0.37581	1.2976	0.40369	0.52932
634400.1	4253293.92	1.34766E-05	4.58719E-05	2.54717E-05	3.33811E-05	0.000118201	0.38499	1.34086	0.41315	0.54144
634397.2	4253318.27	1.38091E-05	4.74042E-05	2.60747E-05	3.41376E-05	0.000121426	0.39449	1.38565	0.42293	0.55371
634394.4	4253342.62	1.41525E-05	4.89861E-05	2.66955E-05	3.49033E-05	0.000124737	0.4043	1.43189	0.433	0.56613
634391.5	4253366.96	1.45074E-05	5.0609E-05	2.73392E-05	3.56746E-05	0.00012813	0.41444	1.47933	0.44344	0.57864
634388.7	4253391.31	1.48747E-05	5.22672E-05	2.80069E-05	3.64631E-05	0.000131612	0.42493	1.5278	0.45427	0.59143
634385.8	4253415.66	1.52538E-05	5.39449E-05	2.87115E-05	3.72788E-05	0.000135189	0.43576	1.57684	0.4657	0.60466
634383	4253440.01	1.56455E-05	5.56312E-05	2.94144E-05	3.80525E-05	0.000138744	0.44695	1.62613	0.4771	0.61721
634380.1	4253464.36	1.60494E-05	5.73164E-05	3.01419E-05	3.88275E-05	0.000142335	0.45849	1.67539	0.4889	0.62978
634377.2	4253488.71	1.64667E-05	5.89859E-05	3.09181E-05	3.9653E-05	0.000146024	0.47041	1.72419	0.50149	0.64317
634374.4	4253513.06	1.68969E-05	6.06324E-05	3.17405E-05	4.05081E-05	0.000140024	0.4827	1.77232	0.51483	0.65704
634371.5	4253537.4	1.73404E-05	6.22492E-05	3.25451E-05	4.12843E-05	0.000153419	0.49537	1.81958	0.52788	0.66963
634368.7	4253561.75	1.77993E-05	6.38349E-05	3.33743E-05	4.20538E-05	0.000157062	0.50848	1.86593	0.54133	0.68211
634365.8	4253586.1	1.82729E-05	6.53812E-05	3.42387E-05	4.28213E-05	0.000160714	0.52201	1.91113	0.55535	0.69456
634363	4253610.45	1.87634E-05	6.68886E-05	3.5124E-05	4.35907E-05	0.000164367	0.53602	1.95519	0.56971	0.70704
634360.1	4253634.8	1.9272E-05	6.83593E-05	3.60433E-05	4.43682E-05	0.000168043	0.55055	1.99818	0.58462	0.71965
634357.2	4253659.15	1.98009E-05	6.97896E-05	3.69964E-05	4.51549E-05	0.000108043	0.56566	2.03999	0.60008	0.71303
JJ+JJ/.Z	- 723033,13	1.70003E-03	0.3703UE-U3	J.UJJU4E-UJ	7.J1J4JE-UJ	0.0001/1/42	0.50500	۷.۵۵۶۶۶	0.00000	0.73241

634354.4	4253683.5	2.03522E-05	7.11841E-05	3.79631E-05	4.596E-05	0.000175459	0.58141	2.08075	0.61576	0.74547
634351.5	4253707.84	2.09281E-05	7.2546E-05	3.89372E-05	4.67615E-05	0.000179173	0.59786	2.12056	0.63156	0.75847
634348.7	4253732.19	2.15294E-05	7.38758E-05	3.9968E-05	4.76666E-05	0.00018304	0.61504	2.15943	0.64828	0.77315
634345.8	4253756.54	2.21567E-05	7.51765E-05	4.10223E-05	4.86358E-05	0.000186991	0.63296	2.19745	0.66538	0.78887
634343	4253780.89	2.2811E-05	7.64495E-05	4.21074E-05	4.96641E-05	0.000191032	0.65165	2.23466	0.68298	0.80555
634340.1	4253805.24	2.34929E-05	7.76985E-05	4.32319E-05	5.0809E-05	0.000195232	0.67113	2.27117	0.70122	0.82412
634337.2	4253829.59	2.42003E-05	7.89178E-05	4.44083E-05	5.20778E-05	0.000199604	0.69134	2.30681	0.7203	0.8447
634334.4	4253853.94	2.49333E-05	8.01107E-05	4.56746E-05	5.36364E-05	0.000133004	0.71228	2.34168	0.74084	0.86998
634331.5	4253878.28	2.5687E-05	8.12759E-05	4.70254E-05	5.52942E-05	0.000204333	0.73381	2.37574	0.76275	0.89687
634340.9	4253018.66	9.93335E-06	2.62506E-05	1.85925E-05	2.34458E-05	7.82223E-05	0.28377	0.76732	0.30157	0.38029
634352.5	4252998.54	9.82099E-06	2.62516E-05	1.84193E-05	2.32818E-05	7.77737E-05	0.28056	0.76735	0.29876	0.37763
634364.1	4252978.42	9.70687E-06	2.62369E-05	1.82349E-05	2.3095E-05	7.72738E-05	0.2773	0.76692	0.29577	0.3746
634375.7	4252958.3	9.59065E-06	2.62055E-05	1.80586E-05	2.29131E-05	7.67679E-05	0.27398	0.766	0.29291	0.37165
634387.3	4252938.18	9.47269E-06	2.61524E-05	1.7873E-05	2.27128E-05	7.62109E-05	0.27061	0.76445	0.2899	0.3684
634398.9	4252918.06	9.35332E-06	2.60772E-05	1.7685E-05	2.25025E-05	7.5618E-05	0.2672	0.76225	0.28685	0.36499
634410.5	4252897.94	9.2322E-06	2.59807E-05	1.74951E-05	2.2283E-05	7.49911E-05	0.26374	0.75943	0.28377	0.36143
634422.1	4252877.82	9.11004E-06	2.58613E-05	1.7304E-05	2.20562E-05	7.43315E-05	0.26025	0.75594	0.28067	0.35775
634433.6	4252857.7	8.98682E-06	2.57142E-05	1.71116E-05	2.18225E-05	7.36351E-05	0.25673	0.75164	0.27755	0.35396
634445.2	4252837.59	8.86255E-06	2.55377E-05	1.69187E-05	2.15839E-05	7.29028E-05	0.25318	0.74648	0.27442	0.35009
634456.8	4252817.47	8.73758E-06	2.53317E-05	1.67257E-05	2.13398E-05	7.21347E-05	0.24961	0.74046	0.27129	0.34613
	4252797.35	8.61227E-06		1.65333E-05	2.10919E-05				0.26817	0.34211
634468.4			2.51025E-05			7.134E-05	0.24603	0.73376		
634480	4252777.23	8.48695E-06	2.48562E-05	1.6341E-05	2.08416E-05	7.05257E-05	0.24245	0.72656	0.26505	0.33805
634491.6	4252757.11	8.36163E-06	2.45962E-05	1.61499E-05	2.05895E-05	6.96971E-05	0.23887	0.71896	0.26195	0.33396
634503.2	4252736.99	8.23736E-06	2.43256E-05	1.59618E-05	2.03391E-05	6.88639E-05	0.23532	0.71105	0.2589	0.3299
634514.8	4252716.87	8.11345E-06	2.40444E-05	1.57719E-05	2.00821E-05	6.80118E-05	0.23178	0.70283	0.25582	0.32573
634548.9	4252691.3	7.97553E-06	2.43892E-05	1.56782E-05	1.9997E-05	6.80399E-05	0.22784	0.71291	0.2543	0.32435
634571.5	4252685.86	7.95697E-06	2.50156E-05	1.57577E-05	2.01406E-05	6.88709E-05	0.22731	0.73122	0.25559	0.32668
634594.1	4252680.41	7.93667E-06	2.56232E-05	1.58379E-05	2.02812E-05	6.96789E-05	0.22673	0.74898	0.25689	0.32896
634616.6	4252674.97	7.91602E-06	2.61986E-05	1.59267E-05	2.04329E-05	7.04742E-05	0.22614	0.7658	0.25833	0.33142
634639.2	4252669.52	7.89642E-06	2.67261E-05	1.60136E-05	2.0579E-05	7.12151E-05	0.22558	0.78122	0.25974	0.33379
634661.8	4252664.08	7.87961E-06	2.71935E-05	1.61012E-05	2.0722E-05	7.18962E-05	0.2251	0.79488	0.26116	0.33611
634684.3	4252658.63	7.86771E-06	2.75903E-05	1.61942E-05	2.08731E-05	7.25253E-05	0.22476	0.80648	0.26267	0.33856
634706.9	4252653.18	7.86141E-06	2.79112E-05	1.63003E-05	2.10438E-05	7.31167E-05	0.22458	0.81586	0.26439	0.34133
634729.5	4252647.74	7.86211E-06	2.81562E-05	1.64162E-05	2.12288E-05	7.36632E-05	0.2246	0.82302	0.26627	0.34433
634752	4252642.29	7.86981E-06	2.83248E-05	1.65346E-05	2.14168E-05	7.4146E-05	0.22482	0.82795	0.26819	0.34738
634774.6	4252636.85	7.88591E-06	2.84333E-05	1.66616E-05	2.16203E-05	7.4601E-05	0.22528	0.83112	0.27025	0.35068
634797.2	4252631.4	7.90937E-06	2.85154E-05	1.68003E-05	2.18416E-05	7.50666E-05	0.22595	0.83352	0.2725	0.35427
634819.8	4252625.96	7.94087E-06	2.86238E-05	1.69507E-05	2.20833E-05	7.55987E-05	0.22685	0.83669	0.27494	0.35819
634842.3	4252620.51	7.97973E-06	2.88147E-05	1.71129E-05	2.23459E-05	7.62532E-05	0.22796	0.84227	0.27757	0.36245
634864.9	4252615.06	8.02523E-06	2.91243E-05	1.7288E-05	2.26295E-05	7.7067E-05	0.22926	0.85132	0.28041	0.36705
634887.5	4252609.62	8.07739E-06	2.95786E-05	1.74754E-05	2.29347E-05	7.80661E-05	0.23075	0.8646	0.28345	0.372
634329.4	4253038.78	1.00433E-05	2.62393E-05	1.87633E-05	2.35987E-05	7.86446E-05	0.28691	0.76699	0.30434	0.38277
634326.5	4253063.13	1.02442E-05	2.6862E-05	1.9132E-05	2.4071E-05	8.03091E-05	0.29265	0.78519	0.31032	0.39043
	4253087.48	1.04504E-05								0.3986
634323.6			2.75092E-05 2.81808E-05	1.95247E-05 1.99039E-05	2.45747E-05 2.50494E-05	8.2059E-05 8.37962E-05	0.29854	0.80411 0.82374	0.31669 0.32284	
634320.8	4253111.83	1.06622E-05	/ X X I X F = I S	1 4401344-05	/ 5H/IU/IE-H5	X X / Yh / F-115		11 × / × //I	U 37784	0.4063
							0.30459			
634317.9	4253136.17	1.08795E-05	2.88804E-05	2.02917E-05	2.55297E-05	8.55813E-05	0.3108	0.84419	0.32913	0.41409
634317.9 634315.1										
	4253136.17	1.08795E-05	2.88804E-05	2.02917E-05	2.55297E-05	8.55813E-05	0.3108	0.84419	0.32913	0.41409
634315.1	4253136.17 4253160.52	1.08795E-05 1.11029E-05	2.88804E-05 2.96077E-05	2.02917E-05 2.06887E-05	2.55297E-05 2.60155E-05	8.55813E-05 8.74148E-05	0.3108 0.31718	0.84419 0.86545	0.32913 0.33557	0.41409 0.42197
634315.1 634312.2	4253136.17 4253160.52 4253184.87	1.08795E-05 1.11029E-05 1.13325E-05	2.88804E-05 2.96077E-05 3.03617E-05	2.02917E-05 2.06887E-05 2.1095E-05	2.55297E-05 2.60155E-05 2.65069E-05	8.55813E-05 8.74148E-05 8.92961E-05	0.3108 0.31718 0.32374	0.84419 0.86545 0.88749	0.32913 0.33557 0.34216	0.41409 0.42197 0.42994
634315.1 634312.2 634309.4	4253136.17 4253160.52 4253184.87 4253209.22	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05	0.3108 0.31718 0.32374 0.33047	0.84419 0.86545 0.88749 0.91037	0.32913 0.33557 0.34216 0.34889	0.41409 0.42197 0.42994 0.43798
634315.1 634312.2 634309.4 634306.5 634303.6	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05 2.75025E-05 2.80056E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425
634315.1 634312.2 634309.4 634306.5 634303.6 634300.8	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92 4253282.27	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05 1.2313E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05 3.36689E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05 2.28096E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05 2.75025E-05 2.80056E-05 2.85124E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05 9.73038E-05	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866 0.98416	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279 0.36997	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425 0.46247
634315.1 634312.2 634309.4 634306.5 634303.6 634300.8 634297.9	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92 4253282.27 4253306.61	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05 1.2313E-05 1.25741E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05 3.36689E-05 3.4571E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05 2.28096E-05 2.32695E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05 2.75025E-05 2.80056E-05 2.85124E-05 2.90358E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05 9.73038E-05 9.94505E-05	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448 0.35175 0.35921	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866 0.98416 1.01053	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279 0.36997 0.37743	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425 0.46247 0.47096
634315.1 634312.2 634309.4 634306.5 634303.6 634300.8 634297.9 634295.1	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92 4253282.27 4253306.61 4253330.96	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05 1.2313E-05 1.25741E-05 1.28419E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05 3.36689E-05 3.4571E-05 3.55043E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05 2.28096E-05 2.32695E-05 2.37393E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05 2.75025E-05 2.80056E-05 2.85124E-05 2.90358E-05 2.95642E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05 9.73038E-05 9.94505E-05 0.00010165	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448 0.35175 0.35921 0.36686	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866 0.98416 1.01053 1.03781	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279 0.36997 0.37743 0.38505	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425 0.46247 0.47096 0.47953
634315.1 634312.2 634309.4 634306.5 634303.6 634300.8 634297.9 634295.1 634292.2	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92 4253282.27 4253306.61 4253330.96 4253355.31	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05 1.2313E-05 1.25741E-05 1.28419E-05 1.3116E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05 3.36689E-05 3.4571E-05 3.55043E-05 3.64677E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05 2.28096E-05 2.32695E-05 2.37393E-05 2.42048E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05 2.75025E-05 2.80056E-05 2.85124E-05 2.90358E-05 2.95642E-05 3.00728E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05 9.73038E-05 9.94505E-05 0.00010165 0.000103861	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448 0.35175 0.35921 0.36686 0.37469	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866 0.98416 1.01053 1.03781 1.06597	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279 0.36997 0.37743 0.38505 0.3926	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425 0.46247 0.47096 0.47953 0.48778
634315.1 634312.2 634309.4 634306.5 634300.8 634297.9 634295.1 634292.2 634289.4	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92 4253282.27 4253306.61 4253330.96 4253355.31 4253379.66	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05 1.2313E-05 1.25741E-05 1.28419E-05 1.3116E-05 1.33971E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05 3.36689E-05 3.4571E-05 3.55043E-05 3.64677E-05 3.74587E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05 2.28096E-05 2.32695E-05 2.37393E-05 2.42048E-05 2.46789E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05 2.75025E-05 2.80056E-05 2.85124E-05 2.90358E-05 2.95642E-05 3.00728E-05 3.05833E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05 9.73038E-05 9.94505E-05 0.00010165 0.000103861 0.000106118	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448 0.35175 0.35921 0.36686 0.37469 0.38272	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866 0.98416 1.01053 1.03781 1.06597 1.09494	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279 0.36997 0.37743 0.38505 0.3926 0.40029	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425 0.46247 0.47096 0.47953 0.48778 0.49606
634315.1 634312.2 634309.4 634306.5 634300.8 634297.9 634295.1 634292.2 634289.4 634286.5	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92 4253282.27 4253306.61 4253330.96 4253355.31 4253379.66 42533404.01	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05 1.2313E-05 1.25741E-05 1.28419E-05 1.3116E-05 1.33971E-05 1.36855E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05 3.36689E-05 3.4571E-05 3.55043E-05 3.64677E-05 3.74587E-05 3.84765E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05 2.28096E-05 2.32695E-05 2.37393E-05 2.42048E-05 2.46789E-05 2.51616E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05 2.75025E-05 2.80056E-05 2.85124E-05 2.90358E-05 2.95642E-05 3.00728E-05 3.05833E-05 3.10975E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05 9.73038E-05 9.94505E-05 0.00010165 0.000103861 0.000106118 0.000108421	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448 0.35175 0.35921 0.36686 0.37469 0.38272 0.39096	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866 0.98416 1.01053 1.03781 1.06597 1.09494 1.12469	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279 0.36997 0.37743 0.38505 0.3926 0.40029 0.40812	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425 0.46247 0.47096 0.47953 0.48778 0.49606 0.5044
634315.1 634312.2 634309.4 634306.5 634303.6 634300.8 634297.9 634295.1 634292.2 634289.4 634286.5 634283.6	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92 4253282.27 4253306.61 42533355.31 4253379.66 4253404.01 4253428.36	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05 1.2313E-05 1.25741E-05 1.28419E-05 1.3116E-05 1.33971E-05 1.36855E-05 1.39813E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05 3.36689E-05 3.4571E-05 3.55043E-05 3.64677E-05 3.74587E-05 3.84765E-05 3.95189E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05 2.28096E-05 2.32695E-05 2.37393E-05 2.42048E-05 2.46789E-05 2.51616E-05 2.56789E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05 2.75025E-05 2.80056E-05 2.85124E-05 2.90358E-05 2.95642E-05 3.00728E-05 3.05833E-05 3.10975E-05 3.16579E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05 9.73038E-05 9.94505E-05 0.00010165 0.000103861 0.000106118 0.000108421 0.000110837	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448 0.35175 0.35921 0.36686 0.37469 0.38272 0.39096 0.39941	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866 0.98416 1.01053 1.03781 1.06597 1.09494 1.12469 1.15516	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279 0.36997 0.37743 0.38505 0.3926 0.40029 0.40812 0.41651	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425 0.46247 0.47096 0.47953 0.48778 0.49606 0.5044 0.51349
634315.1 634312.2 634309.4 634306.5 634300.8 634297.9 634295.1 634292.2 634289.4 634286.5 634280.8	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92 4253282.27 4253306.61 4253330.96 4253355.31 4253379.66 4253404.01 4253428.36 4253452.7	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05 1.2313E-05 1.25741E-05 1.28419E-05 1.3116E-05 1.33971E-05 1.36855E-05 1.39813E-05 1.42848E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05 3.36689E-05 3.4571E-05 3.55043E-05 3.64677E-05 3.74587E-05 3.84765E-05 3.95189E-05 4.05805E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05 2.28096E-05 2.32695E-05 2.37393E-05 2.42048E-05 2.46789E-05 2.51616E-05 2.56789E-05 2.62122E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05 2.75025E-05 2.80056E-05 2.85124E-05 2.90358E-05 2.95642E-05 3.00728E-05 3.05833E-05 3.10975E-05 3.16579E-05 3.22381E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05 9.73038E-05 9.94505E-05 0.00010165 0.000103861 0.000106118 0.000108421 0.000110837 0.000113316	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448 0.35175 0.35921 0.36686 0.37469 0.38272 0.39096 0.39941 0.40808	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866 0.98416 1.01053 1.03781 1.06597 1.09494 1.12469 1.15516 1.18619	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279 0.36997 0.37743 0.38505 0.3926 0.40029 0.40812 0.41651 0.42516	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425 0.46247 0.47096 0.47953 0.48778 0.49606 0.5044 0.51349 0.5229
634315.1 634312.2 634309.4 634306.5 634300.8 634297.9 634295.1 634292.2 634289.4 634286.5 634283.6 634277.9	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92 4253282.27 4253306.61 4253355.31 4253379.66 4253404.01 4253428.36 4253452.7 4253477.05	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05 1.2313E-05 1.25741E-05 1.28419E-05 1.3116E-05 1.33971E-05 1.36855E-05 1.39813E-05 1.42848E-05 1.45967E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05 3.36689E-05 3.4571E-05 3.55043E-05 3.64677E-05 3.74587E-05 3.84765E-05 3.95189E-05 4.05805E-05 4.16533E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05 2.28096E-05 2.32695E-05 2.37393E-05 2.42048E-05 2.46789E-05 2.51616E-05 2.56789E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05 2.75025E-05 2.80056E-05 2.85124E-05 2.90358E-05 2.95642E-05 3.00728E-05 3.05833E-05 3.10975E-05 3.16579E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05 9.73038E-05 9.94505E-05 0.00010165 0.000103861 0.000108421 0.000110837 0.000113316 0.000115747	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448 0.35175 0.35921 0.36686 0.37469 0.38272 0.39096 0.39941 0.40808 0.41699	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866 0.98416 1.01053 1.03781 1.06597 1.09494 1.12469 1.15516 1.18619 1.21755	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279 0.36997 0.37743 0.38505 0.3926 0.40029 0.40812 0.41651 0.42516 0.43343	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425 0.46247 0.47096 0.47953 0.48778 0.49606 0.5044 0.51349 0.5229 0.5316
634315.1 634312.2 634309.4 634306.5 634300.8 634297.9 634295.1 634292.2 634289.4 634286.5 634280.8 634277.9 634275.1	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92 4253282.27 4253306.61 4253330.96 4253355.31 4253379.66 4253404.01 4253428.36 4253452.7 4253477.05 4253501.4	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05 1.2313E-05 1.25741E-05 1.28419E-05 1.3116E-05 1.33971E-05 1.36855E-05 1.39813E-05 1.42848E-05 1.45967E-05 1.49177E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05 3.36689E-05 3.4571E-05 3.55043E-05 3.64677E-05 3.74587E-05 3.84765E-05 3.95189E-05 4.05805E-05 4.16533E-05 4.27337E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05 2.28096E-05 2.32695E-05 2.37393E-05 2.42048E-05 2.46789E-05 2.51616E-05 2.56789E-05 2.62122E-05 2.6722E-05 2.72418E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05 2.75025E-05 2.80056E-05 2.85124E-05 2.90358E-05 2.95642E-05 3.00728E-05 3.05833E-05 3.10975E-05 3.16579E-05 3.22381E-05 3.27744E-05 3.33213E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05 9.73038E-05 9.94505E-05 0.00010165 0.000103861 0.000108421 0.000110837 0.000113316 0.000115747 0.000118214	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448 0.35175 0.35921 0.36686 0.37469 0.38272 0.39096 0.39941 0.40808 0.41699 0.42616	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866 0.98416 1.01053 1.03781 1.06597 1.09494 1.12469 1.15516 1.18619 1.21755 1.24913	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279 0.36997 0.37743 0.38505 0.3926 0.40029 0.40812 0.41651 0.42516 0.43343 0.44186	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425 0.46247 0.47096 0.47953 0.48778 0.49606 0.5044 0.51349 0.5229 0.5316 0.54047
634315.1 634312.2 634309.4 634306.5 634300.8 634297.9 634295.1 634292.2 634289.4 634286.5 634283.6 634277.9	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92 4253282.27 4253306.61 4253355.31 4253379.66 4253404.01 4253428.36 4253452.7 4253477.05	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05 1.2313E-05 1.25741E-05 1.28419E-05 1.3116E-05 1.33971E-05 1.36855E-05 1.39813E-05 1.42848E-05 1.45967E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05 3.36689E-05 3.4571E-05 3.55043E-05 3.64677E-05 3.74587E-05 3.84765E-05 3.95189E-05 4.05805E-05 4.16533E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05 2.28096E-05 2.32695E-05 2.37393E-05 2.42048E-05 2.46789E-05 2.51616E-05 2.56789E-05 2.62122E-05 2.6722E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05 2.75025E-05 2.80056E-05 2.85124E-05 2.90358E-05 2.95642E-05 3.00728E-05 3.05833E-05 3.10975E-05 3.16579E-05 3.22381E-05 3.27744E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05 9.73038E-05 9.94505E-05 0.00010165 0.000103861 0.000108421 0.000110837 0.000113316 0.000115747	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448 0.35175 0.35921 0.36686 0.37469 0.38272 0.39096 0.39941 0.40808 0.41699	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866 0.98416 1.01053 1.03781 1.06597 1.09494 1.12469 1.15516 1.18619 1.21755	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279 0.36997 0.37743 0.38505 0.3926 0.40029 0.40812 0.41651 0.42516 0.43343	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425 0.46247 0.47096 0.47953 0.48778 0.49606 0.5044 0.51349 0.5229 0.5316
634315.1 634312.2 634309.4 634306.5 634300.8 634297.9 634295.1 634292.2 634289.4 634286.5 634280.8 634277.9 634275.1	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92 4253282.27 4253306.61 4253330.96 4253355.31 4253379.66 4253404.01 4253428.36 4253452.7 4253477.05 4253501.4	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05 1.2313E-05 1.25741E-05 1.28419E-05 1.3116E-05 1.33971E-05 1.36855E-05 1.39813E-05 1.42848E-05 1.45967E-05 1.49177E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05 3.36689E-05 3.4571E-05 3.55043E-05 3.64677E-05 3.74587E-05 3.84765E-05 3.95189E-05 4.05805E-05 4.16533E-05 4.27337E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05 2.28096E-05 2.32695E-05 2.37393E-05 2.42048E-05 2.46789E-05 2.51616E-05 2.56789E-05 2.62122E-05 2.6722E-05 2.72418E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05 2.75025E-05 2.80056E-05 2.85124E-05 2.90358E-05 2.95642E-05 3.00728E-05 3.05833E-05 3.10975E-05 3.16579E-05 3.22381E-05 3.27744E-05 3.33213E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05 9.73038E-05 9.94505E-05 0.00010165 0.000103861 0.000108421 0.000110837 0.000113316 0.000115747 0.000118214	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448 0.35175 0.35921 0.36686 0.37469 0.38272 0.39096 0.39941 0.40808 0.41699 0.42616	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866 0.98416 1.01053 1.03781 1.06597 1.09494 1.12469 1.15516 1.18619 1.21755 1.24913	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279 0.36997 0.37743 0.38505 0.3926 0.40029 0.40812 0.41651 0.42516 0.43343 0.44186	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425 0.46247 0.47096 0.47953 0.48778 0.49606 0.5044 0.51349 0.5229 0.5316 0.54047
634315.1 634312.2 634309.4 634306.5 634300.8 634297.9 634295.1 634292.2 634289.4 634286.5 634283.6 634277.9 634275.1 634272.2	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92 4253282.27 4253306.61 4253330.96 4253355.31 4253379.66 4253404.01 4253428.36 4253452.7 4253477.05 4253501.4 4253525.75	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05 1.2313E-05 1.25741E-05 1.28419E-05 1.3116E-05 1.33971E-05 1.36855E-05 1.39813E-05 1.42848E-05 1.45967E-05 1.49177E-05 1.52492E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05 3.36689E-05 3.4571E-05 3.55043E-05 3.64677E-05 3.74587E-05 3.84765E-05 3.95189E-05 4.05805E-05 4.16533E-05 4.27337E-05 4.38172E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05 2.28096E-05 2.32695E-05 2.37393E-05 2.42048E-05 2.46789E-05 2.51616E-05 2.56789E-05 2.62122E-05 2.6722E-05 2.77676E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05 2.75025E-05 2.80056E-05 2.85124E-05 2.90358E-05 2.95642E-05 3.00728E-05 3.05833E-05 3.10975E-05 3.16579E-05 3.22381E-05 3.27744E-05 3.33213E-05 3.38811E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05 9.73038E-05 9.94505E-05 0.00010165 0.000106118 0.000108421 0.000110837 0.000113316 0.000115747 0.000118214 0.000120715	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448 0.35175 0.35921 0.36686 0.37469 0.38272 0.39096 0.39941 0.40808 0.41699 0.42616 0.43563	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866 0.98416 1.01053 1.03781 1.06597 1.09494 1.12469 1.15516 1.18619 1.21755 1.24913 1.2808	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279 0.36997 0.37743 0.38505 0.3926 0.40029 0.40812 0.41651 0.42516 0.43343 0.44186 0.45039	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425 0.46247 0.47096 0.47953 0.48778 0.49606 0.5044 0.51349 0.5229 0.5316 0.54047 0.54955
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634315.1 634312.2 634309.4 634306.5 634300.8 634297.9 634295.1 634292.2 634289.4 634286.5 634283.6 634277.9 634275.1 634272.2 634269.4 634266.5 634263.6	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92 4253282.27 4253306.61 4253330.96 4253355.31 4253379.66 4253404.01 4253428.36 4253452.7 4253477.05 4253501.4 4253525.75 4253574.45 4253598.8	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05 1.2313E-05 1.25741E-05 1.28419E-05 1.3116E-05 1.36855E-05 1.39813E-05 1.42848E-05 1.45967E-05 1.52492E-05 1.55916E-05 1.59462E-05 1.63141E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05 3.36689E-05 3.4571E-05 3.55043E-05 3.64677E-05 3.74587E-05 3.84765E-05 4.05805E-05 4.16533E-05 4.27337E-05 4.38172E-05 4.48958E-05 4.59653E-05 4.70217E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05 2.28096E-05 2.32695E-05 2.37393E-05 2.42048E-05 2.46789E-05 2.51616E-05 2.56789E-05 2.62122E-05 2.6722E-05 2.77676E-05 2.83003E-05 2.839903E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05 2.75025E-05 2.80056E-05 2.85124E-05 2.90358E-05 2.95642E-05 3.00728E-05 3.05833E-05 3.10975E-05 3.22381E-05 3.27744E-05 3.38811E-05 3.38811E-05 3.44557E-05 3.50476E-05 3.56616E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05 9.73038E-05 9.94505E-05 0.00010165 0.000106118 0.000106118 0.000108421 0.00011837 0.000113316 0.000115747 0.000115747 0.000118214 0.000120715 0.000123243 0.000125798 0.000128388	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448 0.35175 0.35921 0.36686 0.37469 0.38272 0.39096 0.39941 0.40808 0.41699 0.42616 0.43563 0.44541 0.45554 0.46605	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866 0.98416 1.01053 1.03781 1.06597 1.09494 1.12469 1.15516 1.18619 1.21755 1.24913 1.2808 1.31233 1.34359 1.37447	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279 0.36997 0.37743 0.38505 0.3926 0.40029 0.40812 0.41651 0.42516 0.43343 0.44186 0.45039 0.45903 0.46777 0.47671	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425 0.46247 0.47096 0.47953 0.48778 0.49606 0.5044 0.51349 0.5229 0.5316 0.54047 0.54955 0.55887 0.56847 0.57843
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634315.1 634312.2 634309.4 634306.5 634300.8 634297.9 634295.1 634292.2 634289.4 634286.5 634283.6 634277.9 634277.9 634275.1 634272.2 634269.4 634266.5 634260.8 634257.9	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92 4253282.27 4253306.61 4253330.96 4253355.31 4253379.66 4253404.01 4253428.36 4253452.7 4253477.05 4253501.4 4253525.75 4253501.1 4253574.45 4253598.8 4253623.14 4253647.49	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05 1.2313E-05 1.25741E-05 1.28419E-05 1.3116E-05 1.33971E-05 1.36855E-05 1.39813E-05 1.42848E-05 1.45967E-05 1.49177E-05 1.52492E-05 1.59462E-05 1.66956E-05 1.70912E-05	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05 3.36689E-05 3.4571E-05 3.55043E-05 3.64677E-05 3.74587E-05 3.84765E-05 4.05805E-05 4.16533E-05 4.27337E-05 4.38172E-05 4.48958E-05 4.59653E-05 4.8062E-05 4.90819E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05 2.28096E-05 2.32695E-05 2.37393E-05 2.42048E-05 2.46789E-05 2.51616E-05 2.56789E-05 2.6722E-05 2.6722E-05 2.77676E-05 2.83003E-05 2.83903E-05 2.93903E-05 2.99483E-05 3.05149E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.70025E-05 2.75025E-05 2.80056E-05 2.85124E-05 2.90358E-05 2.95642E-05 3.00728E-05 3.05833E-05 3.10975E-05 3.16579E-05 3.22381E-05 3.27744E-05 3.38213E-05 3.38811E-05 3.44557E-05 3.50476E-05 3.6301E-05 3.69693E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05 9.73038E-05 9.94505E-05 0.00010165 0.000106118 0.000108421 0.000110837 0.000113316 0.000115747 0.000115747 0.000118214 0.000120715 0.000123243 0.000125798 0.000128388 0.000131007 0.000133657	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448 0.35175 0.35921 0.36686 0.37469 0.38272 0.39096 0.39941 0.40808 0.41699 0.42616 0.43563 0.44541 0.45554 0.46605 0.47695 0.48825	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866 0.98416 1.01053 1.03781 1.06597 1.09494 1.12469 1.15516 1.18619 1.21755 1.24913 1.2808 1.31233 1.34359 1.37447 1.40488 1.43469	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279 0.36997 0.37743 0.38505 0.3926 0.40029 0.40812 0.41651 0.42516 0.43343 0.44186 0.45039 0.45903 0.46777 0.47671 0.48576 0.49495	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425 0.46247 0.47096 0.47953 0.48778 0.49606 0.5044 0.51349 0.5229 0.5316 0.54047 0.54955 0.55887 0.56847 0.57843 0.5888 0.59964
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634315.1 634312.2 634309.4 634306.5 634303.6 634300.8 634297.9 634295.1 634292.2 634289.4 634286.5 634283.6 634277.9 634275.1 634272.2 634269.4 634266.5 634260.8 634257.9 634255.1 634252.2 634249.4 634240.8 634240.8 634237.9 634235.1 634232.2 634241.9 634235.1 634232.2 634241.9 634235.7 634265.5 634277.3 634289.1 634301 634312.8 634336.4	4253136.17 4253160.52 4253184.87 4253209.22 4253233.57 4253257.92 4253282.27 4253306.61 4253355.31 4253379.66 4253404.01 4253428.36 4253452.7 4253477.05 4253501.4 4253525.75 4253574.45 4253598.8 4253647.49 4253647.49 4253647.49 4253696.19 425370.54 4253744.89 4253744.89 4253744.89 4253744.89 4253793.58 4253744.89 4253793.58 4253744.89 4253769.24 4253793.58 4253744.89 4253769.24 4253793.58 4253769.24 4253793.58 4253866.63 4253965.56 4252985.04 4252945.04 4252945.04 4252924.52 4252903.99 4252883.47 4252862.95 4252862.95	1.08795E-05 1.11029E-05 1.13325E-05 1.15681E-05 1.181E-05 1.20585E-05 1.20585E-05 1.25741E-05 1.28419E-05 1.3116E-05 1.33971E-05 1.36855E-05 1.39813E-05 1.42848E-05 1.45967E-05 1.49177E-05 1.52492E-05 1.55916E-05 1.59462E-05 1.59462E-05 1.66956E-05 1.70912E-05 1.7926E-05 1.7926E-05 1.8819E-05 1.8819E-05 1.8819E-05 1.92853E-05 1.97627E-05 2.025E-05 2.07439E-06 9.1692E-06 9.08623E-06 9.08623E-06 8.91366E-06 8.8244E-06 8.73303E-06 8.64027E-06 8.64027E-06	2.88804E-05 2.96077E-05 3.03617E-05 3.11445E-05 3.19556E-05 3.27965E-05 3.36689E-05 3.4571E-05 3.55043E-05 3.64677E-05 3.74587E-05 3.84765E-05 4.05805E-05 4.16533E-05 4.27337E-05 4.38172E-05 4.38172E-05 4.48958E-05 4.59653E-05 4.70217E-05 4.8062E-05 4.90819E-05 5.00794E-05 5.10565E-05 5.20072E-05 5.29299E-05 5.38272E-05 5.46958E-05 5.55385E-05 5.55385E-05 5.63544E-05 5.7146E-05 2.12281E-05 2.12281E-05 2.12794E-05 2.12794E-05 2.12794E-05 2.12589E-05 2.11269E-05	2.02917E-05 2.06887E-05 2.1095E-05 2.15099E-05 2.19341E-05 2.23669E-05 2.28096E-05 2.32695E-05 2.37393E-05 2.42048E-05 2.46789E-05 2.51616E-05 2.56789E-05 2.6722E-05 2.72418E-05 2.77676E-05 2.83003E-05 2.8392E-05 2.93903E-05 2.93903E-05 3.05149E-05 3.17251E-05 3.2394E-05 3.37134E-05 3.37134E-05 3.37134E-05 3.51844E-05 3.59828E-05 1.69409E-05 1.68163E-05 1.66869E-05 1.66869E-05 1.662707E-05 1.6124E-05 1.6124E-05 1.69748E-05	2.55297E-05 2.60155E-05 2.65069E-05 2.75025E-05 2.80056E-05 2.85124E-05 2.90358E-05 2.95642E-05 3.05833E-05 3.10975E-05 3.16579E-05 3.22381E-05 3.22381E-05 3.33213E-05 3.33213E-05 3.50476E-05 3.50476E-05 3.6301E-05 3.69693E-05 3.76684E-05 3.8468E-05 3.93398E-05 4.10618E-05 4.20266E-05 4.30889E-05 4.30889E-05 4.55525E-05 2.08361E-05 2.07559E-05 2.06647E-05 2.06647E-05 2.04458E-05 2.03194E-05 2.01825E-05 2.03194E-05 2.03194E-05 2.03194E-05 2.03194E-05 2.03194E-05 2.0364E-05	8.55813E-05 8.74148E-05 8.92961E-05 9.1225E-05 9.32022E-05 9.52275E-05 9.73038E-05 9.94505E-05 0.00010165 0.000103861 0.000108421 0.00011837 0.000113316 0.000115747 0.000118214 0.000120715 0.000123243 0.000125798 0.000123243 0.000125798 0.000133657 0.000133657 0.000133657 0.000136343 0.000139176 0.000142107 0.000144958 0.000147888 0.000150911 0.000154062 0.000157334 0.000157334 0.000160785 6.83741E-05 6.81198E-05 6.75282E-05 6.75282E-05 6.7187E-05 6.68158E-05 6.55291E-05	0.3108 0.31718 0.32374 0.33047 0.33738 0.34448 0.35175 0.35921 0.36686 0.37469 0.38272 0.39096 0.39941 0.40808 0.41699 0.42616 0.43563 0.44541 0.45554 0.46605 0.47695 0.48825 0.49996 0.5121 0.52466 0.53761 0.55093 0.56457 0.57849 0.5926 0.60689 0.26425 0.26194 0.25957 0.25713 0.25464 0.25209 0.24948 0.24683 0.24413	0.84419 0.86545 0.88749 0.91037 0.93408 0.95866 0.98416 1.01053 1.03781 1.06597 1.09494 1.12469 1.15516 1.18619 1.21755 1.24913 1.2808 1.31233 1.34359 1.37447 1.40488 1.43469 1.46385 1.49241 1.5202 1.54717 1.5734 1.59879 1.62342 1.64727 1.67041 0.62051 0.62126 0.62178 0.62178 0.62201 0.6219 0.62141 0.62053 0.61925 0.61755	0.32913 0.33557 0.34216 0.34889 0.35577 0.36279 0.36997 0.37743 0.38505 0.3926 0.40029 0.40812 0.41651 0.42516 0.43343 0.44186 0.45039 0.45903 0.46777 0.47671 0.48576 0.49495 0.50434 0.51458 0.52543 0.53589 0.54683 0.55839 0.57069 0.58364 0.59758 0.27671 0.27478 0.27276 0.27478 0.27276 0.27066 0.26847 0.26622 0.26391 0.26153 0.25911	0.41409 0.42197 0.42994 0.43798 0.44609 0.45425 0.46247 0.47096 0.47953 0.48778 0.49606 0.5044 0.51349 0.5229 0.5316 0.54047 0.54955 0.55887 0.56847 0.57843 0.5888 0.59964 0.61098 0.62395 0.63809 0.65156 0.66602 0.68167 0.6989 0.71778 0.73886 0.33796 0.33796 0.33518 0.33796 0.33518 0.33796 0.33518 0.332958 0.32736 0.32499 0.32248

634371.9	4252780.86	8.25277E-06	2.08429E-05	1.55111E-05	1.93712E-05	6.3978E-05	0.23576	0.60925	0.25159	0.3142
634383.7	4252760.34	8.15265E-06	2.07098E-05	1.53527E-05	1.91881E-05	6.34033E-05	0.2329	0.60536	0.24902	0.31123
634395.5	4252739.82	8.05114E-06	2.05617E-05	1.51936E-05	1.90001E-05	6.28065E-05	0.23	0.60103	0.24644	0.30818
634407.3	4252719.3	7.94857E-06	2.04016E-05	1.50333E-05	1.88071E-05	6.21906E-05	0.22707	0.59635	0.24384	0.30505
634419.1	4252698.78	7.84566E-06	2.02326E-05	1.4873E-05	1.86104E-05	6.15617E-05	0.22413	0.59141	0.24124	0.30186
634431	4252678.25	7.74204E-06	2.00581E-05	1.4722E-05	1.84248E-05	6.0947E-05	0.22117	0.58631	0.23879	0.29885
634442.8	4252657.73	7.63808E-06	1.98771E-05	1.45691E-05	1.82349E-05	6.03193E-05	0.2182	0.58102	0.23631	0.29577
634454.6	4252637.21	7.53341E-06	1.969E-05	1.44088E-05	1.80296E-05	5.96619E-05	0.21521	0.57555	0.23371	0.29244
634489.4	4252611.13	7.4228E-06	1.99788E-05	1.432E-05	1.79569E-05	5.96785E-05	0.21205	0.58399	0.23227	0.29126
634512.5	4252605.58	7.41195E-06	2.04594E-05	1.43989E-05	1.81005E-05	6.03708E-05	0.21174	0.59804	0.23355	0.29359
634535.5	4252600.03	7.3976E-06	2.09302E-05	1.44717E-05	1.82319E-05	6.10313E-05	0.21133	0.6118	0.23473	0.29572
634558.5	4252594.47	7.38009E-06	2.13824E-05	1.45376E-05	1.83484E-05	6.16485E-05	0.21083	0.62502	0.2358	0.29761
634581.5	4252588.92	7.36049E-06	2.18083E-05	1.4603E-05	1.84624E-05	6.22343E-05	0.21027	0.63747	0.23686	0.29946
634604.6	4252583.36	7.34054E-06	2.22004E-05	1.46801E-05	1.85925E-05	6.28135E-05	0.2097	0.64893	0.23811	0.30157
634627.6	4252577.81	7.32128E-06	2.25507E-05	1.47547E-05	1.87146E-05	6.33413E-05	0.20915	0.65917	0.23932	0.30355
634650.6	4252572.25	7.30413E-06	2.28525E-05	1.48262E-05	1.88305E-05	6.38133E-05	0.20866	0.66799	0.24048	0.30543
634673.6	4252566.7	7.29048E-06	2.31019E-05	1.49026E-05	1.8952E-05	6.42469E-05	0.20827	0.67528	0.24172	0.3074
634696.6	4252561.14	7.28138E-06	2.32962E-05	1.49896E-05	1.90882E-05	6.46553E-05	0.20801	0.68096	0.24313	0.30961
634719.7	4252555.59	7.27858E-06	2.34354E-05	1.50864E-05	1.92386E-05	6.5039E-05	0.20793	0.68503	0.2447	0.31205
634742.7	4252550.03	7.28173E-06	2.35209E-05	1.5185E-05	1.93915E-05	6.53792E-05	0.20802	0.68753	0.2463	0.31453
634765.7	4252544.48	7.29188E-06	2.35661E-05	1.52898E-05	1.95543E-05	6.57021E-05	0.20831	0.68885	0.248	0.31717
634788.7	4252538.92	7.30903E-06	2.35938E-05	1.54039E-05	1.97319E-05	6.60386E-05	0.2088	0.68966	0.24985	0.32005
634811.8	4252533.37	7.33319E-06	2.36355E-05	1.55284E-05	1.99255E-05	6.64226E-05	0.20949	0.69088	0.25187	0.32319
634834.8	4252527.82	7.36399E-06	2.37269E-05	1.56628E-05	2.01369E-05	6.68906E-05	0.21037	0.69355	0.25405	0.32662
634857.8	4252522.26	7.40145E-06	2.38925E-05	1.58083E-05	2.03663E-05	6.74685E-05	0.21144	0.69839	0.25641	0.33034
634880.8	4252516.71	7.4445E-06	2.41466E-05	1.59649E-05	2.06141E-05	6.81702E-05	0.21267	0.70582	0.25895	0.33436
634903.8	4252511.15	7.49246E-06	2.4498E-05	1.61326E-05	2.08798E-05	6.90029E-05	0.21404	0.71609	0.26167	0.33867
634230	4253027.13	9.32847E-06	2.1197E-05	1.71745E-05	2.09057E-05	6.86057E-05	0.26649	0.6196	0.27857	0.33909
634227.2	4253051.47	9.49439E-06	2.16137E-05	1.74828E-05	2.12732E-05	6.9864E-05	0.27123	0.63178	0.28357	0.34505
634224.3	4253075.82	9.66312E-06	2.20423E-05	1.77836E-05	2.16234E-05	7.11125E-05	0.27605	0.64431	0.28845	0.35073
634221.5	4253100.17	9.83604E-06	2.24864E-05	1.80968E-05	2.19877E-05	7.2407E-05	0.28099	0.65729	0.29353	0.35664
634218.6	4253124.52	1.00121E-05	2.29465E-05	1.84137E-05	2.23539E-05	7.37263E-05	0.28602	0.67074	0.29867	0.36258
634215.7	4253148.87	1.0192E-05	2.34227E-05	1.87263E-05	2.27084E-05	7.50495E-05	0.29116	0.68466	0.30374	0.36833
634212.9	4253173.22	1.03755E-05	2.39147E-05	1.90407E-05	2.30611E-05	7.6392E-05	0.2964	0.69904	0.30884	0.37405
634210	4253197.57	1.05624E-05	2.4422E-05	1.93589E-05	2.34162E-05	7.77595E-05	0.30174	0.71387	0.314	0.37981
634207.2	4253221.91	1.07532E-05	2.49451E-05	1.96813E-05	2.37738E-05	7.91534E-05	0.30719	0.72916	0.31923	0.38561
634204.3	4253246.26	1.09478E-05	2.54853E-05	2.00075E-05	2.41351E-05	8.05756E-05	0.31275	0.74495	0.32452	0.39147
634201.5	4253270.61	1.11466E-05	2.60436E-05	2.03379E-05	2.45007E-05	8.20289E-05	0.31843	0.76127	0.32988	0.3974
634198.6	4253294.96	1.13497E-05	2.66191E-05	2.06714E-05	2.487E-05	8.35101E-05	0.32423	0.77809	0.33529	0.40339
634195.7	4253319.31	1.15569E-05	2.72126E-05	2.10093E-05	2.52448E-05	8.50236E-05	0.33015	0.79544	0.34077	0.40947
634192.9	4253343.66	1.1769E-05	2.78257E-05	2.13496E-05	2.56277E-05	8.6572E-05	0.33621	0.81336	0.34629	0.41568
634190	4253368.01	1.19864E-05	2.84569E-05	2.16936E-05	2.60173E-05	8.81542E-05	0.34242	0.83181	0.35187	0.422
634187.2	4253392.35	1.2209E-05	2.91062E-05	2.20414E-05	2.64156E-05	8.97722E-05	0.34878	0.85079	0.35751	0.42846
634184.3	4253416.7	1.24383E-05	2.9775E-05	2.23909E-05	2.68244E-05	9.14286E-05	0.35533	0.87034	0.36318	0.43509
634181.5	4253441.05	1.26739E-05	3.04609E-05	2.27448E-05	2.7243E-05	9.31226E-05	0.36206	0.89039	0.36892	0.44188
634178.6	4253465.4	1.29172E-05	3.11633E-05	2.31012E-05	2.76739E-05	9.48556E-05	0.36901	0.91092	0.3747	0.44887
634175.7	4253489.75	1.31685E-05	3.18803E-05	2.34618E-05	2.81184E-05	9.66291E-05	0.37619	0.93188	0.38055	0.45608
634172.9	4253514.1	1.34279E-05	3.26104E-05	2.38262E-05	2.85778E-05	9.84423E-05	0.3836	0.95322	0.38646	0.46353
634170	4253538.44	1.36957E-05	3.33483E-05	2.41955E-05	2.90519E-05	0.000100291	0.39125	0.97479	0.39245	0.47122
634167.2	4253562.79	1.39719E-05	3.40924E-05	2.45722E-05	2.95408E-05	0.000102177	0.39914	0.99654	0.39856	0.47915
634164.3	4253587.14	1.42572E-05	3.48406E-05	2.49557E-05	3.00451E-05	0.000104099	0.40729	1.01841	0.40478	0.48733
634161.5	4253611.49	1.45502E-05	3.55854E-05	2.53126E-05	3.05056E-05	0.000105954	0.41566	1.04018	0.41057	0.4948
634158.6	4253635.84	1.48522E-05	3.63264E-05	2.56893E-05	3.0997E-05	0.000107865	0.42429	1.06184	0.41668	0.50277
634155.7	4253660.19	1.51627E-05	3.70619E-05	2.61036E-05	3.15445E-05	0.000109873	0.43316	1.08334	0.4234	0.51165
634152.9	4253684.54	1.54813E-05	3.77885E-05	2.65321E-05	3.21129E-05	0.000111915	0.44226	1.10458	0.43035	0.52087
634150	4253708.88	1.58065E-05	3.85011E-05	2.69766E-05	3.2706E-05	0.00011399	0.45155	1.12541	0.43756	0.53049
634147.2	4253733.23	1.61376E-05	3.9199E-05	2.74397E-05	3.3333E-05	0.000116109	0.46101	1.14581	0.44507	0.54066
634144.3	4253757.58	1.64733E-05	3.98812E-05	2.7923E-05	3.40038E-05	0.000118281	0.4706	1.16575	0.45291	0.55154
634141.5	4253781.93	1.68118E-05	4.05442E-05	2.84341E-05	3.47325E-05	0.000120523	0.48027	1.18513	0.4612	0.56336
634138.6	4253806.28	1.71528E-05	4.11877E-05	2.89779E-05	3.5547E-05	0.000122865	0.49001	1.20394	0.47002	0.57657
634135.8	4253830.63	1.74958E-05	4.18104E-05	2.95365E-05	3.64224E-05	0.000125265	0.49981	1.22214	0.47908	0.59077
634132.9	4253854.98	1.78424E-05	4.24145E-05	3.0185E-05	3.74964E-05	0.000127938	0.50971	1.2398	0.4896	0.60819
634142.7	4252994.65	8.54856E-06	1.75833E-05	1.55876E-05	1.8505E-05	6.02244E-05	0.24421	0.51397	0.25283	0.30015
634154.7	4252973.83	8.49325E-06	1.76182E-05	1.55142E-05	1.84772E-05	6.01029E-05	0.24263	0.51499	0.25164	0.2997
634166.7	4252953.01	8.43549E-06	1.76487E-05	1.54353E-05	1.84415E-05	5.99609E-05	0.24098	0.51588	0.25036	0.29912
634178.7	4252932.19	8.37528E-06	1.76733E-05	1.53502E-05	1.83965E-05	5.97953E-05	0.23926	0.5166	0.24898	0.29839
634190.7	4252911.38	8.31262E-06	1.76911E-05	1.52602E-05	1.83428E-05	5.96068E-05	0.23747	0.51712	0.24752	0.29752
634202.7	4252890.56	8.24787E-06	1.77013E-05	1.51653E-05	1.82793E-05	5.93938E-05	0.23562	0.51742	0.24598	0.29649
634214.7	4252869.74	8.18136E-06	1.77027E-05	1.50648E-05	1.82072E-05	5.9156E-05	0.23372	0.51746	0.24435	0.29532
634226.6	4252848.92	8.1131E-06	1.76955E-05	1.49606E-05	1.81252E-05	5.88944E-05	0.23177	0.51725	0.24266	0.29399
634238.6	4252828.1	8.04274E-06	1.76791E-05	1.48521E-05	1.80346E-05	5.86085E-05	0.22976	0.51677	0.2409	0.29252
634250.6	4252807.28	7.97098E-06	1.76531E-05	1.47393E-05	1.79353E-05	5.82986E-05	0.22771	0.51601	0.23907	0.29091
634262.6	4252786.46	7.89747E-06	1.76162E-05	1.46233E-05	1.7828E-05	5.7965E-05	0.22561	0.51493	0.23719	0.28917
634274.6	4252765.64	7.82256E-06	1.75669E-05	1.45044E-05	1.77127E-05	5.76065E-05	0.22347	0.51349	0.23526	0.2873
634286.6	4252744.82	7.74589E-06	1.75029E-05	1.43823E-05	1.75901E-05	5.72212E-05	0.22128	0.51162	0.23328	0.28531
634298.6	4252724	7.66783E-06	1.74256E-05	1.42577E-05	1.74612E-05	5.68124E-05	0.21905	0.50936	0.23126	0.28322
634310.6	4252703.18	7.58837E-06	1.73353E-05	1.41307E-05	1.73262E-05	5.63806E-05	0.21678	0.50672	0.2292	0.28103
634322.6	4252682.36	7.50786E-06	1.7235E-05	1.40019E-05	1.71856E-05	5.59304E-05	0.21448	0.50379	0.22711	0.27875
634334.6	4252661.54	7.42595E-06	1.71266E-05	1.38712E-05	1.70401E-05	5.54639E-05	0.21214	0.50062	0.22499	0.27639
634346.6	4252640.73	7.34299E-06	1.7012E-05	1.37405E-05	1.68915E-05	5.4987E-05	0.20977	0.49727	0.22287	0.27398
634358.5	4252619.91	7.25898E-06	1.68936E-05	1.36141E-05	1.67473E-05	5.4514E-05	0.20737	0.49381	0.22082	0.27164
634370.5	4252599.09	7.17391E-06	1.67708E-05	1.34834E-05	1.65938E-05	5.40219E-05	0.20494	0.49022	0.2187	0.26915
634382.5	4252578.27	7.0878E-06	1.66432E-05	1.33422E-05	1.64236E-05	5.34968E-05	0.20248	0.48649	0.21641	0.26639
634394.5	4252557.45	7.00099E-06	1.65135E-05	1.3206E-05	1.62578E-05	5.29782E-05	0.2	0.4827	0.2142	0.2637
634429.9	4252530.99	6.91733E-06	1.67605E-05	1.31363E-05	1.6214E-05	5.30281E-05	0.19761	0.48992	0.21307	0.26299
634453.2	4252525.36	6.91558E-06	1.71403E-05	1.32016E-05	1.6336E-05	5.35935E-05	0.19756	0.50102	0.21413	0.26497
634476.6	4252519.72	6.90963E-06	1.75169E-05	1.32707E-05	1.64612E-05	5.41585E-05	0.19739	0.51203	0.21525	0.267

634499.9	4252514.09	6.89982E-06	1.78844E-05	1.33391E-05	1.65833E-05	5.47066E-05	0.19711	0.52277	0.21636	0.26898
634523.3	4252508.45	6.88582E-06	1.82354E-05	1.33971E-05	1.66869E-05	5.52051E-05	0.19671	0.53303	0.2173	0.27066
634546.6	4252502.82	6.86972E-06	1.85669E-05	1.34643E-05	1.68021E-05	5.5703E-05	0.19625	0.54272	0.21839	0.27253
634570	4252497.18	6.85152E-06	1.88717E-05	1.35235E-05	1.69039E-05	5.61505E-05	0.19573	0.55163	0.21935	0.27418
634593.3	4252491.55	6.83262E-06	1.91471E-05	1.35851E-05	1.70056E-05	5.65704E-05	0.19519	0.55968	0.22035	0.27583
634616.7	4252485.91	6.81371E-06	1.9389E-05	1.36523E-05	1.71147E-05	5.69697E-05	0.19465	0.56675	0.22144	0.2776
634640.1	4252480.28	6.79656E-06	1.95922E-05	1.37127E-05	1.72109E-05	5.73124E-05	0.19416	0.57269	0.22242	0.27916
634663.4	4252474.64	6.78221E-06	1.97557E-05	1.37855E-05	1.73237E-05	5.76471E-05	0.19375	0.57747	0.2236	0.28099
634686.8	4252469.01	6.77171E-06	1.98778E-05	1.38582E-05	1.74353E-05	5.79431E-05	0.19345	0.58104	0.22478	0.2828
634710.1	4252463.37	6.76576E-06	1.99572E-05	1.39316E-05	1.75469E-05	5.82015E-05	0.19328	0.58336	0.22597	0.28461
634733.5	4252457.74	6.76576E-06	1.99983E-05	1.40111E-05	1.76677E-05	5.84429E-05	0.19328	0.58456	0.22726	0.28657
634756.8	4252452.1	6.77136E-06	2.00106E-05	1.40974E-05	1.77984E-05	5.86778E-05	0.19344	0.58492	0.22866	0.28869
634780.2	4252446.47	6.78326E-06	2.00113E-05	1.41924E-05	1.79415E-05	5.89284E-05	0.19378	0.58494	0.2302	0.29101
634803.5	4252440.83	6.80146E-06	2.00191E-05	1.42947E-05	1.80981E-05	5.92134E-05	0.1943	0.58517	0.23186	0.29355
634826.9	4252435.2	6.82596E-06	2.00595E-05	1.44069E-05	1.82689E-05	5.95612E-05	0.195	0.58635	0.23368	0.29632
634850.3	4252429.56	6.85607E-06	2.01488E-05	1.45284E-05	1.84544E-05	5.99877E-05	0.19586	0.58896	0.23565	0.29933
634873.6	4252423.93	6.89142E-06	2.02969E-05	1.46591E-05	1.8656E-05	6.05035E-05	0.19687	0.59329	0.23777	0.3026
634897	4252418.29	6.93168E-06	2.051E-05	1.47991E-05	1.8873E-05	6.11138E-05	0.19802	0.59952	0.24004	0.30612
634920.3	4252412.66	6.97614E-06	2.07909E-05	1.49495E-05	1.91055E-05	6.1822E-05	0.19929	0.60773	0.24248	0.30989
634130.7	4253015.47	8.60177E-06	1.7547E-05	1.56714E-05	1.85488E-05	6.0369E-05	0.24573	0.51291	0.25419	0.30086
634127.9	4253039.82	8.73583E-06	1.78382E-05	1.59063E-05	1.88126E-05	6.1293E-05	0.24956	0.52142	0.258	0.30514
634125	4253064.17	8.872E-06	1.81372E-05	1.61375E-05	1.90685E-05	6.22152E-05	0.25345	0.53016	0.26175	0.30929
634122.1	4253088.52	9.01027E-06	1.84447E-05	1.63712E-05	1.93268E-05	6.3153E-05	0.2574	0.53915	0.26554	0.31348
634119.3	4253112.87	9.15099E-06	1.87622E-05	1.66061E-05	1.95882E-05	6.41075E-05	0.26142	0.54843	0.26935	0.31772
634116.4	4253137.21	9.29451E-06	1.90906E-05	1.68441E-05	1.98515E-05	6.50807E-05	0.26552	0.55803	0.27321	0.32199
634113.6	4253161.56	9.44048E-06	1.94304E-05	1.70882E-05	2.01258E-05	6.60849E-05	0.26969	0.56796	0.27717	0.32644
	4253185.91	9.5889E-06	1.97793E-05	1.73317E-05	2.04008E-05	6.71007E-05		0.57816		
634110.7							0.27393		0.28112	0.3309
634107.9	4253210.26	9.74013E-06	2.01382E-05	1.75728E-05	2.06727E-05	6.81238E-05	0.27825	0.58865	0.28503	0.33531
634105	4253234.61	9.8945E-06	2.05076E-05	1.78151E-05	2.09507E-05	6.9168E-05	0.28266	0.59945	0.28896	0.33982
634102.1	4253258.96	1.00531E-05	2.08894E-05	1.80851E-05	2.12713E-05	7.0299E-05	0.28719	0.61061	0.29334	0.34502
634099.3	4253283.31	1.02144E-05	2.12815E-05	1.83379E-05	2.15716E-05	7.14054E-05	0.2918	0.62207	0.29744	0.34989
634096.4	4253307.65	1.03804E-05	2.16848E-05	1.85894E-05	2.18737E-05	7.25283E-05	0.29654	0.63386	0.30152	0.35479
634093.6	4253332	1.05505E-05	2.21002E-05	1.88459E-05	2.21869E-05	7.36834E-05	0.3014	0.646	0.30568	0.35987
634090.7	4253356.35	1.07252E-05	2.25268E-05	1.90894E-05	2.24865E-05	7.48279E-05	0.30639	0.65847	0.30963	0.36473
634087.9	4253380.7	1.09054E-05	2.29664E-05	1.93441E-05	2.28071E-05	7.6023E-05	0.31154	0.67132	0.31376	0.36993
634085	4253405.05	1.10906E-05	2.3418E-05	1.95919E-05	2.31228E-05	7.72232E-05	0.31683	0.68452	0.31778	0.37505
634082.1	4253429.4	1.1281E-05	2.38822E-05	1.98527E-05	2.346E-05	7.84759E-05	0.32227	0.69809	0.32201	0.38052
634079.3	4253453.75	1.14774E-05	2.43591E-05	2.01209E-05	2.3812E-05	7.97694E-05	0.32788	0.71203	0.32636	0.38623
634076.4	4253478.09	1.1679E-05	2.48483E-05	2.0394E-05	2.41721E-05	8.10935E-05	0.33364	0.72633	0.33079	0.39207
634073.6	4253502.44	1.18866E-05	2.53481E-05	2.06714E-05	2.45377E-05	8.24439E-05	0.33957	0.74094	0.33529	0.398
634070.7	4253526.79	1.20995E-05	2.58582E-05	2.09526E-05	2.4907E-05	8.38172E-05	0.34565	0.75585	0.33985	0.40399
634067.9	4253551.14	1.23179E-05	2.63769E-05	2.12393E-05	2.52806E-05	8.52146E-05	0.35189	0.77101	0.3445	0.41005
634065	4253575.49	1.25419E-05	2.6903E-05	2.15334E-05	2.56591E-05	8.66374E-05	0.35829	0.78639	0.34927	0.41619
634062.1	4253599.84	1.27705E-05	2.74336E-05	2.18348E-05	2.60432E-05	8.80822E-05	0.36482	0.8019	0.35416	0.42242
634059.3	4253624.18	1.30036E-05	2.79666E-05	2.21449E-05	2.64341E-05	8.95493E-05	0.37148	0.81748	0.35919	0.42876
634056.4	4253648.53	1.32406E-05	2.85013E-05	2.24637E-05	2.68355E-05	9.10411E-05	0.37825	0.83311	0.36436	0.43527
634053.6	4253672.88	1.34801E-05	2.90333E-05	2.27824E-05	2.7235E-05	9.25308E-05	0.38509	0.84866	0.36953	0.44175
634050.7	4253697.23	1.37219E-05	2.95626E-05	2.31203E-05	2.76659E-05	9.40707E-05	0.392	0.86413	0.37501	0.44874
634047.9	4253721.58	1.39652E-05	3.0088E-05	2.34773E-05	2.81345E-05	9.5665E-05	0.39895	0.87949	0.3808	0.45634
634045	4253745.93	1.42092E-05	3.06056E-05	2.38459E-05	2.864E-05	9.73008E-05	0.40592	0.89462	0.38678	0.46454
634042.1	4253770.28	1.44539E-05	3.1115E-05	2.42276E-05	2.91949E-05	9.89914E-05	0.41291	0.90951	0.39297	0.47354
634039.3	4253794.62	1.46989E-05	3.16145E-05	2.46215E-05	2.98083E-05	0.000100743	0.41991	0.92411	0.39936	0.48349
634036.4	4253818.97	1.49471E-05	3.21065E-05	2.50593E-05	3.05371E-05	0.00010265	0.427	0.93849	0.40646	0.49531
634033.6	4253843.32	1.51974E-05	3.25861E-05	2.55186E-05	3.13564E-05	0.000104659	0.43415	0.95251	0.41391	0.5086
634708.5	4253941.18	6.49926E-05	0.001109822	0.000123241	0.000153094	0.001451149	1.85667	32.44071	1.99896	2.48317
634701.7	4253961.88	7.03337E-05	0.001025779	0.000129407	0.00014306	0.001368579	2.00925	29.98409	2.09897	2.32043
634695	4253982.58	7.6531E-05	0.00095419	0.000136649	0.000130715	0.001298084	2.18629	27.89149	2.21644	2.12019
634688.3	4254003.28	8.37094E-05	0.000892218	0.000144347	0.000116513	0.001236788	2.39136	26.08004	2.3413	1.88984
634681.5	4254023.98	9.19503E-05	0.00083755	0.000153163	0.000101839	0.001184502	2.62678	24.48206	2.48429	1.65182
634694.9	4253936.76	6.21761E-05	0.000881793	0.00012034	0.0001365	0.001200809	1.77621	25.7753	1.95191	2.21402
634688.2	4253957.46	6.7032E-05	0.0008279	0.000126283	0.000125478	0.001146693	1.91493	24.19997	2.0483	2.03525
634681.4	4253978.16		0.000780415	0.000132945	0.000112363	0.001098261	2.07222	22.81197	2.15637	1.82252
634674.7	4253998.86	7.87254E-05	0.000737705	0.000140561	9.83091E-05	0.001055301	2.24898	21.56352	2.2799	1.59457
634667.9	4254019.56	8.55696E-05	0.000698733	0.000148206	8.53751E-05	0.001017883	2.4445	20.42435	2.40389	1.38478
634674.6	4253953.03	6.39617E-05	0.000691029	0.000122837	0.000110227	0.000988055	1.82722	20.19917	1.99241	1.78788
634667.8	4253973.73	6.88015E-05	0.000657055	0.000129593	9.79361E-05	0.000953386	1.96548	19.20608	2.102	1.58852
634661.1	4253994.43	7.40953E-05	0.000625859	0.000136329	8.5507E-05	0.00092179	2.11671	18.2942	2.21125	1.38692
634654.4	4254015.13	7.98162E-05	0.000597197	0.00014352	7.47758E-05	0.000895309	2.28014	17.45639	2.32789	1.21286
634661	4253948.61	6.10591E-05	0.000590229	0.000119291	9.86501E-05	0.000869229	1.7443	17.25272	1.9349	1.6001
634654.3	4253969.31	6.52786E-05	0.000564721	0.000125183	8.80391E-05	0.000843221	1.86484	16.5071	2.03046	1.42799
634647.5	4253990.01	6.98107E-05	0.000541166	0.000131547	7.75643E-05	0.000820088	1.99431	15.81858	2.13368	1.25809
634640.8	4254010.71	7.46333E-05	0.000519375	0.000131547	6.8039E-05	0.000800211	2.13208	15.18162	2.24101	1.10359
634647.4	4253944.19	5.83116E-05	0.00051293	0.000115336	9.10576E-05	0.000777635	1.66581	14.99324	1.87074	1.47695
634640.7	4253964.89	6.19798E-05	0.000493169	0.000120702	8.1814E-05	0.000757665	1.7706	14.41561	1.95778	1.32702
634633.9	4253985.59	6.58783E-05	0.000474915	0.00012656	7.25896E-05	0.000739942	1.88197	13.88202	2.05279	1.1774
634627.2	4254006.29	6.99735E-05	0.000457746	0.000132696	6.38941E-05	0.00072431	1.99896	13.38017	2.15233	1.03636
634633.8	4253939.77	5.57107E-05	0.000451786	0.00011163	8.62129E-05	0.00070534	1.59151	13.20596	1.81064	1.39837
634627.1	4253960.47	5.89081E-05	0.000436034	0.000116569	7.77487E-05	0.00068926	1.68285	12.74553	1.89074	1.26108
634620.3	4253981.17	6.22699E-05	0.000421417	0.000121969	6.93442E-05	0.000675	1.77889	12.31825	1.97833	1.12476
634613.6	4254001.87	6.57809E-05	0.000407543	0.000127065	6.1724E-05	0.000662113	1.87919	11.9127	2.06099	1.00116
634620.2	4253935.35	5.32453E-05	0.000407943	0.000127003	8.26735E-05	0.000645652	1.52108	11.7484	1.74869	1.34096
634613.5	4253956.05	5.60391E-05	0.000389162	0.000112135	7.4806E-05	0.000632142	1.60089	11.37543	1.81882	1.21335
634606.8	4253976.75	5.89536E-05	0.000377181	0.000116831	6.73239E-05	0.000620289	1.68415	11.02521	1.89499	1.09199
634600	4253997.45	6.19885E-05	0.000365714	0.000121714	6.09558E-05	0.000610372	1.77085	10.69001	1.9742	0.9887
634572.7	4253919.87	4.56293E-05	0.000281321	9.39109E-05	7.44385E-05	0.0004953	1.30351	8.22317	1.52323	1.20739
634566	4253940.57	4.74699E-05	0.000274771	9.72894E-05	7.03874E-05	0.000489918	1.35609	8.03171	1.57803	1.14168
634559.2	4253961.27	4.93759E-05	0.000268418	0.000100638	6.70292E-05	0.000485461	1.41054	7.84602	1.63234	1.08721

634552.5	4253981.97	5.13428E-05	0.00026227	0.000103842	6.48251E-05	0.000482281	1.46673	7.66631	1.68432	1.05146
634518.4	4253925.1	4.08326E-05	0.000203784	8.35471E-05	6.96031E-05	0.000397767	1.16648	5.95673	1.35513	1.12896
634511.7	4253945.8	4.21621E-05	0.000200211	8.59232E-05	6.87425E-05	0.000397038	1.20446	5.85227	1.39367	1.115
634504.9	4253966.5	4.35167E-05	0.000196703	8.84669E-05	6.86518E-05	0.000397338	1.24316	5.74973	1.43493	1.11353
634470.9	4253909.62	3.55885E-05	0.000155641	7.16574E-05	6.75705E-05	0.000337350	1.01667	4.54946	1.16228	1.09599
634464.1	4253930.32	3.65571E-05	0.000153646	7.34718E-05	6.80131E-05	0.000330437	1.04434	4.49117	1.19171	1.10317
634457.4	4253950.52	3.75337E-05	0.000153646	7.5195E-05	6.89959E-05	0.000331088	1.07224	4.43298	1.21966	1.11911
634416.6	4253914.84	3.20901E-05	0.000120485	6.26654E-05	6.49897E-05	0.00028023	0.91673	3.52184	1.01643	1.05413
634409.8	4253935.54	3.28122E-05	0.000119369	6.38497E-05	6.63276E-05	0.000282358	0.93736	3.48921	1.03564	1.07583
634314.8	4253904.59	2.58403E-05	7.83697E-05	4.68559E-05	5.58497E-05	0.000206916	0.73819	2.29079	0.76	0.90588
634226.4	4253852.94	2.07051E-05	5.54156E-05	3.57849E-05	4.41635E-05	0.000156069	0.59149	1.61983	0.58043	0.71633
634219.7	4253873.64	2.09655E-05	5.53253E-05	3.62005E-05	4.49459E-05	0.000157437	0.59893	1.61719	0.58717	0.72902
634124.6	4253842.69	1.74024E-05	4.10208E-05	2.93595E-05	3.63071E-05	0.00012409	0.49714	1.19906	0.47621	0.5889
634063.2	4253708.23	1.40807E-05	3.0803E-05	2.37158E-05	2.84532E-05	9.70528E-05	0.40225	0.90039	0.38467	0.46151
634679.1	4254052.06	0.000108221	0.000846385	0.000167643	9.28215E-05	0.001215071	3.0916	24.74031	2.71916	1.50556
634677.4	4254076.72	0.000127326	0.000858537	0.000182275	8.38344E-05	0.001251972	3.63737	25.09552	2.95649	1.35979
634675.7	4254101.38	0.000127320	0.000870764	0.000198287	7.42141E-05	0.001291372	4.36433	25.45291	3.21621	1.20375
					0.000158053					
634673.9	4254126.04	0.000186709	0.000882652	0.000234113		0.001461528	5.33379	25.80042	3.79731	2.56362
634672.2	4254150.7	0.000232431	0.000894197	0.000278588	0.000975365	0.002380581	6.63995	26.13787	4.51868	15.82038
634670.4	4254175.36	0.000294624	0.000905286	0.000251238	0.001672279	0.003123427	8.41664	26.46201	4.07507	27.1243
634668.7	4254200.02	0.000370163	0.000915828	0.000276786	0.00190648	0.003469257	10.5746	26.77017	4.48945	30.92302
634667	4254224.69	0.00045023	0.000925367	0.000299967	0.001935875	0.003611438	12.8619	27.04898	4.86545	31.3998
634664.9	4254051.05	0.000100591	0.000702933	0.000163507	7.6409E-05	0.00104344	2.87362	20.54711	2.65208	1.23935
634663.1	4254075.71	0.000116031	0.000711458	0.000176706	7.04663E-05	0.001074661	3.3147	20.7963	2.86617	1.14296
634661.4	4254100.38	0.000135532	0.000719458	0.000191333	7.18979E-05	0.001118222	3.8718	21.03016	3.10342	1.16618
634659.7	4254125.04	0.000160296	0.0007274	0.00020778	0.000199168	0.001294644	4.57925	21.2623	3.37019	3.23049
634657.9	4254149.7	0.000191699	0.000735068	0.000251832	0.000828952	0.002007551	5.47634	21.48646	4.08471	13.44556
634656.2	4254174.36	0.000232092	0.000742261	0.000227908	0.00137821	0.00258047	6.63025	21.69669	3.69665	22.35451
634654.5	4254199.02	0.000281002	0.000748896	0.000241615	0.001511751	0.002783264	8.02749	21.89066	3.91898	24.52054
634652.7	4254223.68	0.000334048	0.000754616	0.000262764	0.001681625	0.003033053	9.54289	22.05785	4.26202	27.27588
634650.6	4254050.05	9.36288E-05	0.000598772	0.000158885	6.52332E-05	0.000916519	2.67473	17.50245	2.5771	1.05808
634648.9	4254074.71	0.000106316	0.000605199	0.000170965	6.16802E-05	0.000944161	3.03717	17.69031	2.77305	1.00045
634647.2	4254099.37	0.000121636	0.000610731	0.0001835	7.46192E-05	0.000990487	3.47483	17.85201	2.97637	1.21032
634645.4	4254124.03	0.000140431	0.000616326	0.000197375	0.000217481	0.001171613	4.01176	18.01555	3.20141	3.52753
634643.7	4254148.69	0.000163273	0.000621777	0.000245258	0.000668693	0.001699001	4.66427	18.17488	3.97808	10.84617
634641.9	4254173.36	0.000191591	0.000626771	0.000227141	0.001276288	0.002321791	5.47325	18.32087	3.68421	20.70134
634640.2	4254198.02	0.000225651	0.000631267	0.000225366	0.001307023	0.002389306	6.44627	18.45228	3.65542	21.19985
634638.5	4254222.68	0.000223031	0.000634961	0.000233842	0.001307023	0.002383300	7.51843		3.77669	21.23314
								18.56025		
634638.1	4254024.38	7.85017E-05	0.00051426	0.000142952	6.33473E-05	0.000799062	2.24259	15.03212	2.31868	1.02749
634636.4	4254049.05	8.73699E-05	0.000519521	0.000153598	5.80334E-05	0.000818523	2.49593	15.18588	2.49136	0.9413
634634.6	4254073.71	9.78791E-05	0.000524388	0.00016468	5.68577E-05	0.000843806	2.79615	15.32816	2.67111	0.92223
634632.9	4254098.37	0.000110279	0.000528801	0.000176331	8.03541E-05	0.000895765	3.15038	15.45714	2.86008	1.30334
634631.2	4254123.03	0.000125054	0.000533129	0.000188828	0.000219491	0.001066503	3.57248	15.58367	3.06279	3.56013
634629.4	4254147.69	0.000142436	0.000537213	0.0002254	0.00056223	0.001467279	4.06902	15.70304	3.65598	9.11935
634627.7	4254172.35	0.00016339	0.000540848	0.000235508	0.001021063	0.001960809	4.66763	15.80929	3.81993	16.56159
634626	4254197.01	0.000188329	0.000544001	0.000212534	0.00107815	0.002023013	5.38007	15.90144	3.44729	17.48754
634624.2	4254221.67	0.000216149	0.000546412	0.00021912	0.001078515	0.002060196	6.1748	15.97194	3.55412	17.49347
634623.9	4254023.38	7.41223E-05		0.00021312		0.002000130				0.95029
			0.000452725		5.85877E-05		2.11748	13.23339	2.24317	
634622.1	4254048.04	8.17554E-05	0.000457085	0.000148139	5.42326E-05	0.000741212	2.33554	13.36084	2.40281	0.87965
634620.4	4254072.7	9.05592E-05	0.000460861	0.000157941	5.57221E-05	0.000765083	2.58704	13.47122	2.5618	0.90381
634618.7	4254097.36	0.000100801	0.000464607	0.000169009	8.52413E-05	0.000819658	2.87962	13.58071	2.74132	1.38261
634616.9	4254122.02	0.000112712	0.00046813	0.000180849	0.000212725	0.000974417	3.2199	13.68371	2.93337	3.45039
634615.2	4254146.69	0.000126389	0.000471314	0.000199911	0.000487101	0.001284715	3.6106	13.77676	3.24255	7.90076
634613.4	4254171.35	0.000142532	0.000474057	0.000236419	0.000826254	0.001679263	4.07177	13.85696	3.83471	13.40181
634611.7	4254196.01	0.000161499	0.000476374	0.000216525	0.000915185	0.001769583	4.61361	13.92469	3.51202	14.84426
634610	4254220.67	0.000182829	0.000478072	0.000206264	0.001042713	0.001909878	5.22294	13.97431	3.3456	16.91276
634609.6	4254022.38	7.00946E-05	0.000402736	0.000133329	5.63479E-05	0.000662508	2.00242	11.7722	2.16259	0.91396
634607.9	4254047.04	7.67067E-05	0.000406458	0.000142462	5.31259E-05	0.000678753	2.19131	11.88099	2.31073	0.8617
634606.1	4254071.7	8.4204E-05	0.000409468				2.40549		2.45832	0.8017
				0.000151561	5.6854E-05	0.000702282		11.97466		
634604.4	4254096.36	9.27929E-05	0.000412897	0.000161843	8.98991E-05	0.000757432	2.65085	12.06921	2.62508	1.45816
634602.7	4254121.02	0.000102567	0.000415808	0.00017249	0.000206182	0.000897046	2.93006	12.1543	2.79778	3.34426
634600.9	4254145.68	0.00011361	0.000418393	0.000185239	0.000428836	0.001146078	3.24553	12.22986	3.00457	6.9557
634599.2	4254170.34	0.000126441	0.000420592	0.000214477	0.000674115	0.001435625	3.6121	12.29414	3.4788	10.93411
634597.5	4254195	0.000141315	0.000422391	0.000215934	0.000865991	0.001645631	4.037	12.34673	3.50244	14.04634
634595.7	4254219.67	0.000158083	0.000423647	0.000248875	0.000916729	0.001747335	4.51603	12.38345	4.03674	14.86931
634595.4	4254021.37	6.63774E-05	0.000361216	0.000128358	5.60914E-05	0.000612042	1.89623	10.55853	2.08196	0.9098
634593.6	4254046.03	7.21508E-05	0.000364501	0.000136606	5.4105E-05	0.000627364	2.06116	10.65458	2.21575	0.87758
634591.9	4254070.69	7.86267E-05	0.000367456	0.000145278	6.00563E-05	0.000651416	2.24616	10.74093	2.3564	0.97411
634590.1	4254095.36	8.59158E-05	0.0003770239	0.000113273	9.53128E-05	0.000705931	2.45439	10.8223	2.50539	1.54597
634588.4	4254120.02	9.40789E-05	0.000370239	0.000154403	0.000199985	0.000703931	2.68759	10.8223	2.67127	3.24374
		0.000103185	0.00037277			0.000831524				
634586.7	4254144.68			0.000175237	0.00038341		2.94774	10.96021	2.84233	6.21889
634584.9	4254169.34	0.000113627	0.000376784	0.000195832	0.000577817	0.00126406	3.24603	11.01362	3.17638	9.37216
634549	4253999.91	5.34515E-05	0.000260739	0.000107447	6.37671E-05	0.000485405	1.52697	7.62155	1.74279	1.0343
634545.5	4254017.86	5.5653E-05	0.000259138	0.000111179	6.38251E-05	0.000489795	1.58986	7.57475	1.80332	1.03524
634543.7	4254042.52	5.94226E-05	0.000261593	0.000117582	6.64478E-05	0.000505045	1.69755	7.64651	1.90717	1.07778
634542	4254067.18	6.35238E-05	0.000263912	0.000124642	7.83911E-05	0.000530469	1.81471	7.7143	2.02169	1.2715
634540.3	4254091.84	6.79709E-05	0.000265963	0.00013193	0.000112543	0.000578407	1.94175	7.77424	2.1399	1.82544
634538.5	4254116.5	7.27529E-05	0.00026777	0.000139586	0.000181722	0.000661832	2.07836	7.82707	2.26408	2.94753
634536.8	4254141.16	7.79672E-05	0.000269345	0.000147837	0.000285057	0.000780206	2.22732	7.87309	2.39791	4.62361
634535.1	4254165.83	8.37703E-05	0.000270688	0.000147837	0.000283037	0.000780200	2.3931	7.91235	2.54112	6.42625
634500.3	4253990.42	4.54753E-05	0.000270088	9.21655E-05	6.94916E-05	0.000907318	1.29911	5.72795	1.49492	1.12715
634495.6	4254014.34	4.74947E-05	0.000195078	9.6065E-05	7.19681E-05	0.000410606	1.3568	5.70224	1.55817	1.16732
634493.9	4254039.01	5.01005E-05	0.000197211	0.000101002	7.7695E-05	0.000426008	1.43124	5.76458	1.63824	1.26021
634492.1	4254063.67	5.28771E-05	0.000199164	0.000106231	9.14152E-05	0.000449688	1.51056	5.82168	1.72307	1.48275
634490.4	4254088.33	5.58234E-05	0.000200949	0.000111828	0.000119904	0.000488504	1.59473	5.87385	1.81384	1.94483
634488.7	4254112.99	5.89473E-05	0.00020256	0.000117693	0.000166949	0.00054615	1.68397	5.92094	1.90898	2.70791
634486.9	4254137.65	6.23127E-05	0.000203996	0.000124143	0.000232313	0.000622764	1.78011	5.96291	2.01359	3.76811

624405.2	425 44 62 24	C 507075 05	0.000205227	0.000424220	0.0002024.00	0.000704634	4.00404	F 00000	2 12000	4 004 47
634485.2	4254162.31	6.59787E-05	0.000205227	0.000131238	0.000302188	0.000704631	1.88484	5.99889	2.12868	4.90147
634483.4	4254186.97	6.99759E-05	0.000206248	0.000139092	0.0003566	0.000771917	1.99903	6.02875	2.25607	5.78404
634449.6	4253990.89	3.99014E-05	0.000151542	7.979E-05	7.26056E-05	0.000343839	1.13988	4.42967	1.29419	1.17766
634453.5	4253970.96	3.87088E-05	0.000151635	7.74577E-05	7.047E-05	0.000338272	1.10581	4.43238	1.25636	1.14302
634445.7	4254010.83	4.1113E-05	0.000151391	8.21186E-05	7.58898E-05	0.000350513	1.17449	4.42525	1.33196	1.23093
634444	4254035.49	4.30036E-05	0.000153306	8.59965E-05	8.2774E-05	0.00036508	1.2285	4.48122	1.39486	1.34259
634442.3	4254060.15	4.49905E-05	0.000155091	9.01217E-05	9.57228E-05	0.000385926	1.28526	4.53339	1.46177	1.55262
634440.5	4254084.81	4.70726E-05	0.000156748	9.45952E-05	0.000118017	0.000416433	1.34474	4.58184	1.53433	1.91423
634438.8	4254109.47	4.92628E-05	0.000158256	9.95447E-05	0.00015054	0.000457604	1.40731	4.62591	1.61461	2.44176
634437	4254134.14	5.15997E-05	0.000159616	0.000104975	0.000193469	0.00050966	1.47407	4.66566	1.70269	3.13806
634435.3	4254158.8	5.41127E-05	0.000160822	0.000111098	0.000239536	0.000565568	1.54586	4.70091	1.802	3.88526
634433.6	4254183.46	5.68225E-05	0.000161879	0.000117914	0.000277858	0.000614474	1.62327	4.73182	1.91256	4.50685
634431.8	4254208.12	5.97282E-05	0.00016277	0.000117511	0.000306181	0.000654241	1.70628	4.75785	2.03661	4.96625
634400.5	4253983.39	3.493E-05	0.000119967	6.78374E-05	7.13134E-05	0.000294047	0.99786	3.50669	1.10032	1.1567
634405.2	4253959.47	3.38659E-05	0.000119709	6.57838E-05	6.84681E-05	0.000287827	0.96746	3.49917	1.06701	1.11055
634395.9	4254007.32	3.60099E-05	0.000120137	7.01186E-05	7.54324E-05	0.000301697	1.02871	3.51166	1.13732	1.22351
634394.1	4254031.98	3.74311E-05	0.000121839	7.32709E-05	8.22801E-05	0.000314821	1.06931	3.56142	1.18845	1.33458
634392.4	4254056.64	3.89094E-05	0.000123451	7.67653E-05	9.34367E-05	0.000332562	1.11154	3.60853	1.24513	1.51554
634390.6	4254081.3	4.04461E-05	0.000124956	8.06075E-05	0.000110378	0.000356387	1.15544	3.65252	1.30745	1.79032
634388.9	4254105.96	4.2057E-05	0.000126354	8.48264E-05	0.000133119	0.000386357	1.20146	3.69341	1.37588	2.15918
634387.2	4254130.62	4.37628E-05	0.000127645	8.94854E-05	0.000162297	0.00042319	1.25019	3.73112	1.45145	2.63245
634385.4	4254155.28	4.5581E-05	0.000128828	9.47715E-05	0.000193058	0.000462238	1.30213	3.76571	1.53719	3.13139
634383.7	4254179.94	4.75227E-05	0.000129892	0.000100612	0.000219806	0.000497833	1.3576	3.79681	1.63193	3.56525
634382	4254204.61	4.95887E-05	0.000123832	0.000107166	0.00024024	0.000437833	1.41662	3.82466	1.73823	3.89669
634300.8	4253976.36	2.77456E-05	7.96618E-05	5.08756E-05	6.27203E-05	0.000221003	0.79262	2.32856	0.8252	1.01732
634305.4	4253952.44	2.71057E-05	7.92763E-05	4.93546E-05	5.98762E-05	0.000215613	0.77434	2.31729	0.80053	0.97119
634310.1	4253928.52	2.64714E-05	7.88449E-05	4.80519E-05	5.76974E-05	0.000211066	0.75622	2.30468	0.7794	0.93585
634296.1	4254000.29	2.83904E-05	8.00053E-05	5.242E-05	6.62462E-05	0.000227062	0.81104	2.3386	0.85025	1.07451
634294.4	4254024.95	2.92547E-05	8.1216E-05	5.45939E-05	7.15532E-05	0.000236618	0.83573	2.37399	0.88551	1.16059
634292.6	4254049.61	3.01445E-05	8.23915E-05	5.70125E-05	7.88183E-05	0.000248367	0.86115	2.40835	0.92474	1.27843
634290.9	4254074.27	3.10655E-05	8.35318E-05	5.96956E-05	8.82407E-05	0.000262534	0.88746	2.44168	0.96826	1.43126
634289.2	4254098.93	3.20243E-05	8.46275E-05	6.26777E-05	9.95958E-05	0.000278925	0.91485	2.47371	1.01663	1.61544
634287.4	4254123.59	3.30286E-05	8.56802E-05	6.60076E-05	0.000113318	0.000278325	0.94354	2.50448	1.07064	1.83802
	4254148.26	3.40854E-05				0.000238033	0.97373			2.07112
634285.7			8.66904E-05	6.96666E-05	0.00012769			2.53401	1.12999	
634283.9	4254172.92	3.52013E-05	8.7661E-05	7.3827E-05	0.000140634	0.000337323	1.00561	2.56238	1.19747	2.28108
634282.2	4254197.58	3.63754E-05	8.85857E-05	7.84114E-05	0.000151898	0.000355271	1.03915	2.58941	1.27183	2.46378
634201	4253969.34	2.26076E-05	5.67499E-05	3.97393E-05	5.18059E-05	0.000170903	0.64584	1.65883	0.64457	0.84029
634205.7	4253945.41	2.21949E-05	5.64355E-05	3.8759E-05	4.96728E-05	0.000167062	0.63405	1.64964	0.62867	0.80569
634210.3	4253921.49	2.17836E-05	5.60951E-05	3.78367E-05	4.78602E-05	0.000163576	0.6223	1.63969	0.61371	0.77629
634215	4253897.56	2.13737E-05	5.57239E-05	3.69594E-05	4.62714E-05	0.000160328	0.61059	1.62884	0.59948	0.75052
634196.4	4253993.26	2.30207E-05	5.70376E-05	4.07923E-05	5.43664E-05	0.000175217	0.65764	1.66724	0.66165	0.88182
634194.6	4254017.92	2.35877E-05	5.78456E-05	4.22498E-05	5.79866E-05	0.0001/321/	0.67384	1.69086	0.68529	0.94054
634192.9	4254042.58	2.41699E-05	5.864E-05	4.38503E-05	6.24015E-05	0.00018107	0.69047	1.71408		1.01215
									0.71125	
634191.1	4254067.24	2.47695E-05	5.94227E-05	4.56037E-05	6.76093E-05	0.000197405	0.7076	1.73696	0.73969	1.09662
634189.4	4254091.9	2.53919E-05	6.01973E-05	4.75266E-05	7.34725E-05	0.000206588	0.72538	1.7596	0.77088	1.19172
634187.7	4254116.57	2.60391E-05	6.09612E-05	4.96592E-05	8.02789E-05	0.000216938	0.74387	1.78193	0.80547	1.30212
634185.9	4254141.23	2.67137E-05	6.17152E-05	5.19989E-05	8.70317E-05	0.000227459	0.76314	1.80397	0.84342	1.41165
634184.2	4254165.89	2.7419E-05	6.24569E-05	5.45618E-05	9.338E-05	0.000237818	0.78329	1.82565	0.88499	1.51462
634182.5	4254190.55	2.81583E-05	6.31904E-05	5.74638E-05	9.92728E-05	0.000248085	0.80441	1.84709	0.93206	1.6102
634101.3	4253962.31	1.88012E-05	4.26092E-05	3.21758E-05	4.22812E-05	0.000135867	0.5371	1.24549	0.52189	0.6858
634105.9	4253938.38	1.85215E-05	4.23348E-05	3.1571E-05	4.07757E-05	0.000133203	0.52911	1.23747	0.51208	0.66138
634110.6	4253914.46	1.82418E-05	4.20403E-05	3.09958E-05	3.94643E-05	0.000130742	0.52112	1.22886	0.50275	0.64011
634115.3		1.79617E-05				0.000130742				0.62133
	4253890.53		4.17245E-05	3.04366E-05	3.83065E-05		0.51312	1.21963	0.49368	
634119.9	4253866.61	1.7682E-05	4.13844E-05	2.98891E-05	3.72529E-05	0.000126208	0.50513	1.20969	0.4848	0.60424
634096.6	4253986.23	1.90805E-05	4.28634E-05	3.2812E-05	4.40014E-05	0.000138757	0.54508	1.25292	0.53221	0.7137
634094.9	4254010.89	1.9474E-05	4.34562E-05	3.37183E-05	4.63293E-05	0.000142978	0.55632	1.27025	0.54691	0.75146
634093.1	4254035.55	1.98765E-05	4.40375E-05	3.47066E-05	4.89742E-05	0.000147595	0.56782	1.28724	0.56294	0.79436
634091.4	4254060.22	2.02899E-05	4.46091E-05	3.57479E-05	5.18497E-05	0.000152497	0.57963	1.30395	0.57983	0.841
634089.6	4254084.88	2.07173E-05	4.51743E-05	3.69261E-05	5.49983E-05	0.000157816	0.59184	1.32047	0.59894	0.89207
634087.9	4254109.54	2.11612E-05	4.57357E-05	3.83022E-05	5.85378E-05	0.000163737	0.60452	1.33688	0.62126	0.94948
634086.2	4254134.2	2.16198E-05	4.62872E-05	3.97745E-05	6.21155E-05	0.000169797	0.61762	1.353	0.64514	1.00751
634084.4	4254158.86		4.68315E-05	4.13756E-05	6.55174E-05	0.000175822	0.63126	1.36891	0.67111	1.06269
634082.7	4254183.52	2.25939E-05	4.73682E-05	4.30753E-05	6.8716E-05	0.000175322	0.64545	1.3846	0.69868	1.11457
634001.5	4253955.28	1.59013E-05	3.31092E-05	2.68453E-05	3.51407E-05	0.000131753	0.45426	0.9678	0.43543	0.56998
634001.3	4253933.26	1.57039E-05	3.28526E-05	2.64569E-05	3.40408E-05	0.000110997	0.44862	0.9678	0.42913	0.55214
634010.8	4253907.43	1.55058E-05	3.25827E-05	2.60833E-05	3.30463E-05	0.000107218	0.44296	0.95241	0.42307	0.53601
634015.5	4253883.51	1.53077E-05	3.23004E-05	2.57233E-05	3.21561E-05	0.000105487	0.4373	0.94416	0.41723	0.52157
634020.2	4253859.58	1.51092E-05	3.20055E-05	2.53737E-05	3.1362E-05	0.00010385	0.43163	0.93554	0.41156	0.50869
633996.8	4253979.2	1.60977E-05	3.33517E-05	2.71955E-05	3.62584E-05	0.000112903	0.45987	0.97489	0.44111	0.58811
633995.1	4254003.86	1.63813E-05	3.38327E-05	2.77707E-05	3.77843E-05	0.000115769	0.46797	0.98895	0.45044	0.61286
633993.4	4254028.53	1.66718E-05	3.43076E-05	2.84205E-05	3.94668E-05	0.000118867	0.47627	1.00283	0.46098	0.64015
633991.6	4254053.19	1.697E-05	3.47735E-05	2.91339E-05	4.12591E-05	0.000122137	0.48479	1.01645	0.47255	0.66922
633989.9	4254077.85	1.72767E-05	3.52309E-05	2.99261E-05	4.31358E-05	0.000125569	0.49355	1.02982	0.4854	0.69966
633988.2	4254102.51	1.75931E-05	3.56791E-05	3.07966E-05	4.51216E-05	0.000129303	0.50259	1.04292	0.49952	0.73187
633986.4	4254102.51	1.79201E-05	3.61191E-05	3.17504E-05	4.71339E-05	0.00012919	0.51193	1.04292	0.51499	0.75167
633984.7	4254151.83	1.82586E-05	3.65491E-05	3.27929E-05	4.91352E-05	0.000136736	0.5216	1.06835	0.5319	0.79697
634682.2	4254211.44	0.00058739	0.00117731	0.000336412	0.0019616	0.004062711	16.78019	34.41343	5.45659	31.81706
634683.1	4254197.18	0.000510834	0.001165656	0.000314285	0.001946378	0.003937152	14.59319	34.07277	5.09769	31.57016
634684	4254182.93	0.000434653	0.001153828	0.000302167	0.001987989	0.003878636	12.41689	33.72703	4.90114	32.24509
634685	4254168.67	0.000363977	0.00114178	0.000289231	0.001591978	0.003386965	10.39786	33.37485	4.69132	25.82181
634685.9	4254154.42	0.000303957	0.001129621	0.000272681	0.001288599	0.002994859	8.68327	33.01946	4.42287	20.90102
634686.9	4254140.16	0.00025673	0.001117374	0.000279181	0.000386045	0.002039331	7.33412	32.66146	4.52831	6.26163
634687.8	4254125.91	0.00023073	0.001117374	0.000275181	0.000380043	0.002033331	6.2708	32.30959	4.21767	1.7297
634691.1	4254076.02	0.000219309	0.001103330	0.00020003	0.00010004	0.001091313	3.93803	31.07402	3.01664	1.66516
634615.2	4253920.68	5.02839E-05	0.000380655	0.000102951	8.4761E-05	0.000618651	1.43648	11.12676	1.66986	1.37482
634621.8	4253820.9	3.83826E-05	0.000358738	8.09299E-05	9.69102E-05	0.000574961	1.09649	10.48611	1.31268	1.57188
634628.4	4253721.12	3.05205E-05	0.000332685	6.44071E-05	9.13523E-05	0.000518965	0.87189	9.72458	1.04468	1.48173

634635	4253621.33	2.50453E-05	0.000301781	5.24558E-05	7.92154E-05	0.000458498	0.71548	8.82123	0.85083	1.28487
634641.6	4253521.55	2.10523E-05	0.000264799	4.37023E-05	6.66038E-05	0.000396158	0.60141	7.74023	0.70885	1.08031
634585.1	4253970.03	5.4285E-05	0.000320588	0.000109501	6.61599E-05	0.000550534	1.55078	9.37097	1.7761	1.07311
634595.5	4253920.03	4.8059E-05	0.000328528	9.87111E-05	7.90421E-05	0.00055434	1.37292	9.60305	1.60109	1.28206
634604.2	4253820.32	3.74273E-05	0.000314125	7.83855E-05	9.15594E-05	0.000521497	1.0692	9.18204	1.27141	1.48509
634585.1	4253720.03	2.92277E-05	0.000241691	6.05661E-05	8.15341E-05	0.000413019	0.83496	7.06476	0.98238	1.32248
634595.5	4253620.03	2.43522E-05	0.000222721	4.99607E-05	7.27955E-05	0.000369829	0.69568	6.51026	0.81036	1.18074
634604.7	4253520.33	2.06561E-05	0.000197304	4.20291E-05	6.25236E-05	0.000322513	0.59009	5.76731	0.68171	1.01413
634736.1	4254227.06	0.001634928	0.002285965	0.000483511	0.001867522	0.006271926	46.70563	66.82002	7.84253	30.29112
635077.6	4254306.27	9.37509E-05	0.000162528	0.000217243	0.000243099	0.00071662	2.67822	4.75078	3.52367	3.94305
635080.9	4254287.43	9.20546E-05	0.000162194	0.000212344	0.000233491	0.000700084	2.62976	4.74101	3.44421	3.78722
635084.2	4254268.58	9.04237E-05	0.000161814	0.000207562	0.000223677	0.000683476	2.58317	4.7299	3.36664	3.62803
635176.1	4254323.52	7.00736E-05	0.000115259	0.00014669	0.000155923	0.000487945	2.00182	3.36908	2.37931	2.52906
635179.4	4254304.68	6.91957E-05	0.000114726	0.000144743	0.000151442	0.000480107	1.97674	3.3535	2.34773	2.45639
635182.7	4254285.83	6.8337E-05	0.000114168	0.000142415	0.000146933	0.000471852	1.95221	3.33718	2.30996	2.38324
635274.6	4254340.77	5.41789E-05	8.52625E-05	0.000101524	0.000104894	0.00034586	1.54775	2.49227	1.64672	1.70138
635277.9	4254321.93	5.36997E-05	8.46843E-05	0.000100828	0.000102523	0.000341735	1.53406	2.47537	1.63542	1.66292
635281.2	4254303.08	5.32254E-05	8.40908E-05	9.99818E-05	0.000100469	0.000337767	1.52051	2.45802	1.6217	1.62961
634567.6	4254168.53	0.000101322	0.000333206	0.000176229	0.000499707	0.001110465	2.8945	9.73981	2.85843	8.10523
634520	4254169.47	7.86572E-05	0.000248566	0.000150179	0.000378421	0.000855823	2.24703	7.26573	2.43589	6.13797
634567.3	4254154.24	9.56318E-05	0.00032946	0.00016883	0.000409491	0.001003413	2.73195	9.6303	2.73842	6.64193
634543.5	4254154.71	8.42674E-05	0.00028296	0.000156551	0.000362514	0.000886292	2.4073	8.27108	2.53925	5.87996
634519.7	4254155.18	7.51843E-05	0.000246078	0.000144688	0.000325043	0.000790995	2.14782	7.19301	2.34684	5.27219
634567	4254139.96	9.04468E-05	0.000325668	0.000162369	0.00031351	0.000891994	2.58383	9.51947	2.63362	5.08512
634519.5	4254140.9	7.19593E-05	0.000243537	0.000139581	0.000267435	0.000722512	2.05569	7.11873	2.26399	4.33779
634566.8	4254125.68	8.57061E-05	0.000321845	0.000156203	0.000226888	0.000790642	2.4484	9.4077	2.53361	3.68011
634519.2	4254126.62	6.89559E-05	0.000240945	0.000134595	0.000212731	0.000657226	1.96989	7.04296	2.18312	3.45048
634566.5	4254111.4	8.13221E-05	0.000317955	0.000150243	0.000160415	0.000709935	2.32316	9.29399	2.43694	2.60192
634518.9	4254112.34	6.61432E-05	0.000238292	0.000129801	0.000167738	0.000601974	1.88954	6.96541	2.10537	2.7207
634566.2	4254097.11	7.72377E-05	0.00031405	0.000144565	0.000112994	0.000648847	2.20648	9.17987	2.34483	1.83276
634518.6	4254098.05	6.34955E-05	0.000235606	0.000125265	0.000132161	0.000556527	1.8139	6.88689	2.03179	2.14365
634565.9	4254082.83	7.34299E-05	0.000310129	0.000138992	8.41772E-05	0.000606727	2.0977	9.06523	2.25444	1.36535
634518.3	4254083.77	6.09877E-05	0.000232879	0.000120734	0.000106272	0.000520873	1.74226	6.80719	1.9583	1.72373
634564.9	4254032.84	6.20624E-05	0.000296163	0.000121794	5.96666E-05	0.000539686	1.77296	8.65701	1.97549	0.96779
634517.3	4254033.78	5.31858E-05	0.000222961	0.000106788	7.13467E-05	0.000454281	1.51938	6.51726	1.73209	1.15724
634516.4	4253983.79	4.67243E-05	0.000212682	9.47345E-05	6.78621E-05	0.000422003	1.33479	6.21682	1.53659	1.10072
634608.4	4253942.08	5.29058E-05	0.000369133	0.000107215	7.73436E-05	0.000606597	1.51138	10.78997	1.73902	1.25451
634759.9	4254009.95	0.000115343	0.002313368	0.000175377	0.000319891	0.002923979	3.29505	67.62102	2.84461	5.18862
634586.7	4253932.39	4.87986E-05	0.00031293	0.000100081	7.46358E-05	0.000536446	1.39405	9.14712	1.62331	1.21059
634539.2	4253933.33	4.36883E-05	0.00023147	8.97512E-05	6.99059E-05	0.000434815	1.24806	6.766	1.45576	1.13387
634491.6	4253934.27	3.9201E-05	0.00017763	7.96038E-05	6.87061E-05	0.00036514	1.11987	5.19221	1.29117	1.11441
634607	4253891.92	4.54277E-05	0.000347022	9.39657E-05	8.72518E-05	0.000573667	1.29775	10.14364	1.52412	1.41522
634862.6	4254144.28	0.000198244	0.000558543	0.000434478	0.000332773	0.001524039	5.66332	16.32652	7.04722	5.39757
634868.7	4254166.73	0.000199442	0.000520508	0.000461691	0.000454414	0.001636055	5.69753	15.21474	7.48861	7.37058
634874.9	4254189.18	0.000199404	0.000485494	0.000481189	0.000564178	0.001730264	5.69644	14.19125	7.80486	9.15094
634562	4253882.87	4.06001E-05	0.000252984	8.4126E-05	7.72746E-05	0.000454985	1.15984	7.39486	1.36452	1.25339
634514.4	4253883.81	3.6933E-05	0.000190988	7.55002E-05	7.08917E-05	0.000374313	1.05508	5.5827	1.22461	1.14986
634490.6	4253884.28	3.52272E-05	0.000167869	7.14028E-05	6.86364E-05	0.000343135	1.00635	4.9069	1.15815	1.11328
CO 4 CO = O						0.000571721	4 0 4 7 2 2	10 52714	1.25583	4 50430
634625.3	4253801.03	3.66579E-05	0.000360142	7.7425E-05	9.74966E-05		1.04722	10.52714	1.25505	1.58139
634625.3 634901.4	4253801.03 4253943.99			7.7425E-05 0.000212592	9.74966E-05 0.000296988	0.001113383	1.04/22 2.82209	10.52714 14.76189	3.44824	1.58139 4.81713
		3.66579E-05 9.87871E-05 0.000119724	0.000360142							
634901.4	4253943.99	3.66579E-05 9.87871E-05	0.000360142 0.000505016	0.000212592	0.000296988	0.001113383	2.82209	14.76189	3.44824	4.81713
634901.4 634925.5	4253943.99 4254031.8	3.66579E-05 9.87871E-05 0.000119724	0.000360142 0.000505016 0.000405642	0.000212592 0.000279555	0.000296988 0.000216401	0.001113383 0.001021321	2.82209 3.4202	14.76189 11.85713	3.44824 4.53437	4.81713 3.51001
634901.4 634925.5 634931.5 634937.5 634961.6	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245	2.82209 3.4202 3.51127 3.58017 3.67427	14.76189 11.85713 11.24386 10.6678 8.68523	3.44824 4.53437 4.7678 4.97476 5.33713	4.81713 3.51001 3.22113 3.02285 4.09475
634901.4 634925.5 634931.5 634937.5	4253943.99 4254031.8 4254053.75 4254075.71	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000128312	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954	0.000212592 0.000279555 0.000293947 0.000306706	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227	0.001113383 0.001021321 0.00100011 0.00098335	2.82209 3.4202 3.51127 3.58017	14.76189 11.85713 11.24386 10.6678	3.44824 4.53437 4.7678 4.97476	4.81713 3.51001 3.22113 3.02285
634901.4 634925.5 634931.5 634937.5 634961.6 634967.6 634973.7	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000128312 0.000127693	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039
634901.4 634925.5 634931.5 634937.5 634961.6 634967.6 634973.7 634560	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000128312 0.000127693 3.22889E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445 0.000222782	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073
634901.4 634925.5 634931.5 634937.5 634967.6 634973.7 634560 634512.4	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89 4253783.83	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000128312 0.000127693 3.22889E-05 3.01179E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445 0.000222782 0.000168048	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05 6.11494E-05	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05 7.04953E-05	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415 0.00032981	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241 0.86039	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204 4.91213	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296 0.99184	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073 1.14343
634901.4 634925.5 634931.5 634937.5 634961.6 634967.6 634973.7 634560 634512.4 634625.1	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89 4253783.83 4253701.83	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000128312 0.000127693 3.22889E-05 3.01179E-05 2.9205E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445 0.000222782 0.000168048 0.00031552	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05 6.11494E-05 6.14305E-05	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05 7.04953E-05 8.82228E-05	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415 0.00032981 0.000494378	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241 0.86039 0.83431	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204 4.91213 9.22283	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296 0.99184 0.9964	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073 1.14343 1.43097
634901.4 634925.5 634931.5 634937.5 634961.6 634967.6 634973.7 634560 634512.4 634625.1 634906.4	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89 4253783.83 4253701.83 4253827.87	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000128312 0.000127693 3.22889E-05 3.01179E-05 2.9205E-05 6.64219E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445 0.000222782 0.000168048 0.00031552 0.00052545	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05 6.11494E-05 6.14305E-05 0.000144811	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05 7.04953E-05 8.82228E-05 0.000276911	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415 0.00032981 0.000494378 0.001013594	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241 0.86039 0.83431 1.8975	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204 4.91213 9.22283 15.35919	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296 0.99184 0.9964 2.34883	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073 1.14343 1.43097 4.49148
634901.4 634925.5 634931.5 634937.5 634961.6 634967.6 634973.7 634560 634512.4 634625.1 634906.4 634949.7	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89 4253783.83 4253701.83 4253827.87 4253847.26	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000128312 0.000127693 3.22889E-05 3.01179E-05 2.9205E-05 6.64219E-05 7.17447E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445 0.000222782 0.000168048 0.00031552 0.00052545 0.000390872	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05 6.11494E-05 6.14305E-05 0.000144811 0.00016197	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05 7.04953E-05 8.82228E-05 0.000276911 0.000264128	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415 0.00032981 0.000494378 0.001013594 0.000888715	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241 0.86039 0.83431 1.8975 2.04956	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204 4.91213 9.22283 15.35919 11.42541	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296 0.99184 0.9964 2.34883 2.62715	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073 1.14343 1.43097 4.49148 4.28415
634901.4 634925.5 634931.5 634937.5 634961.6 634967.6 634560 634512.4 634625.1 634906.4 634949.7 634983.9	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89 4253783.83 4253701.83 4253827.87 4253847.26 4253902.69	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000128312 0.000127693 3.22889E-05 3.01179E-05 2.9205E-05 6.64219E-05 7.17447E-05 7.98974E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445 0.000222782 0.000168048 0.00031552 0.00052545 0.000390872 0.000312679	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05 6.11494E-05 6.114905E-05 0.000144811 0.00016197 0.000187151	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05 7.04953E-05 8.82228E-05 0.000276911 0.000264128 0.000237959	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415 0.00032981 0.000494378 0.001013594 0.000888715 0.000817686	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241 0.86039 0.83431 1.8975 2.04956 2.28246	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204 4.91213 9.22283 15.35919 11.42541 9.13977	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296 0.99184 0.9964 2.34883 2.62715 3.03558	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073 1.14343 1.43097 4.49148 4.28415 3.85969
634901.4 634925.5 634931.5 634937.5 634967.6 634973.7 634560 634512.4 634625.1 634906.4 634949.7 634983.9 634990.1	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89 4253783.83 4253701.83 4253827.87 4253847.26 4253902.69 4253925.56	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000128312 0.000127693 3.22889E-05 3.01179E-05 2.9205E-05 6.64219E-05 7.17447E-05 7.98974E-05 8.29512E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445 0.000222782 0.000168048 0.00031552 0.00052545 0.000390872 0.000312679 0.000299099	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05 6.11494E-05 6.14305E-05 0.000144811 0.00016197 0.000187151 0.000196423	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05 7.04953E-05 8.82228E-05 0.000276911 0.000264128 0.000237959 0.000226739	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415 0.00032981 0.000494378 0.001013594 0.000888715 0.000817686 0.000805212	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241 0.86039 0.83431 1.8975 2.04956 2.28246 2.3697	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204 4.91213 9.22283 15.35919 11.42541 9.13977 8.74283	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296 0.99184 0.9964 2.34883 2.62715 3.03558 3.18598	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073 1.14343 1.43097 4.49148 4.28415 3.85969 3.67769
634901.4 634925.5 634931.5 634937.5 634961.6 634967.6 634512.4 634525.1 634906.4 634949.7 634983.9 634990.1 634996.4	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89 4253783.83 4253701.83 4253827.87 4253847.26 4253902.69 4253925.56 4253948.43	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000128312 0.000127693 3.22889E-05 3.01179E-05 2.9205E-05 6.64219E-05 7.17447E-05 7.98974E-05 8.29512E-05 8.56221E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445 0.000222782 0.000168048 0.00031552 0.00052545 0.000390872 0.000312679 0.000299099 0.000286165	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05 6.11494E-05 6.11494E-05 0.000144811 0.00016197 0.000187151 0.000196423 0.000205447	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05 7.04953E-05 8.82228E-05 0.000276911 0.000264128 0.000237959 0.000226739 0.000213633	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415 0.00032981 0.000494378 0.001013594 0.000888715 0.000817686 0.000805212 0.000790866	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241 0.86039 0.83431 1.8975 2.04956 2.28246 2.3697 2.446	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204 4.91213 9.22283 15.35919 11.42541 9.13977 8.74283 8.36475	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296 0.99184 0.9964 2.34883 2.62715 3.03558 3.18598 3.33234	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073 1.14343 1.43097 4.49148 4.28415 3.85969 3.67769 3.46511
634901.4 634925.5 634931.5 634937.5 634967.6 634967.6 634512.4 63452.1 634906.4 634949.7 634983.9 634990.1 634996.4 635021.5	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89 4253783.83 4253701.83 4253827.87 4253847.26 4253902.69 4253925.56 4253948.43 4254039.9	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000128312 0.000127693 3.22889E-05 3.01179E-05 2.9205E-05 6.64219E-05 7.17447E-05 7.98974E-05 8.29512E-05 8.56221E-05 9.24358E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445 0.000222782 0.000168048 0.00031552 0.00052545 0.000390872 0.000312679 0.000299099 0.000286165 0.000240305	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05 6.11494E-05 6.14305E-05 0.000144811 0.00016197 0.000187151 0.000196423 0.000205447 0.000228395	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05 7.04953E-05 8.82228E-05 0.000276911 0.000264128 0.000237959 0.000226739 0.000213633 0.000166944	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415 0.00032981 0.000494378 0.001013594 0.000888715 0.000888715 0.000817686 0.000805212 0.000790866 0.00072808	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241 0.86039 0.83431 1.8975 2.04956 2.28246 2.3697 2.446 2.64065	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204 4.91213 9.22283 15.35919 11.42541 9.13977 8.74283 8.36475 7.02425	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296 0.99184 0.9964 2.34883 2.62715 3.03558 3.18598 3.33234 3.70456	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073 1.14343 1.43097 4.49148 4.28415 3.85969 3.67769 3.46511 2.70782
634901.4 634925.5 634931.5 634937.5 634961.6 634967.6 634973.7 634560 634512.4 634625.1 634906.4 634949.7 634983.9 634990.1 634996.4 635021.5 635027.8	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89 4253783.83 4253701.83 4253827.87 4253847.26 4253902.69 4253925.56 4253948.43 4254039.9 4254062.77	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000127693 3.22889E-05 3.01179E-05 2.9205E-05 6.64219E-05 7.17447E-05 7.98974E-05 8.29512E-05 8.56221E-05 9.24358E-05 9.32724E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445 0.000222782 0.000168048 0.00031552 0.00052545 0.000390872 0.000312679 0.000299099 0.000286165 0.000240305 0.000230235	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05 6.11494E-05 6.14305E-05 0.000144811 0.00016197 0.000187151 0.000196423 0.000205447 0.000228395 0.000230387	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05 7.04953E-05 8.82228E-05 0.000276911 0.000264128 0.000237959 0.000226739 0.000213633 0.000166944 0.000159994	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415 0.00032981 0.000494378 0.001013594 0.000888715 0.000888715 0.000817686 0.000805212 0.00072808 0.000713888	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241 0.86039 0.83431 1.8975 2.04956 2.28246 2.3697 2.446 2.64065 2.66455	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204 4.91213 9.22283 15.35919 11.42541 9.13977 8.74283 8.36475 7.02425 6.72991	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296 0.99184 0.9964 2.34883 2.62715 3.03558 3.18598 3.33234 3.70456 3.73686	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073 1.14343 1.43097 4.49148 4.28415 3.85969 3.67769 3.46511 2.70782 2.59509
634901.4 634925.5 634931.5 634937.5 634961.6 634967.6 634973.7 634560 634512.4 634625.1 634906.4 634949.7 634983.9 634990.1 634996.4 635021.5 635027.8 635034	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89 4253783.83 4253701.83 4253827.87 4253847.26 4253902.69 4253925.56 4253948.43 4254039.9 4254062.77 4254085.64	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000128312 0.000127693 3.22889E-05 3.01179E-05 2.9205E-05 6.64219E-05 7.17447E-05 7.98974E-05 8.29512E-05 8.56221E-05 9.32724E-05 9.38199E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445 0.000222782 0.000168048 0.00031552 0.00052545 0.000390872 0.000312679 0.000299099 0.000286165 0.000240305 0.000220719	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05 6.11494E-05 6.11494E-05 0.000144811 0.00016197 0.000187151 0.000196423 0.000205447 0.000228395 0.000230387 0.000230607	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05 7.04953E-05 8.82228E-05 0.000276911 0.000264128 0.000237959 0.000226739 0.000213633 0.000166944 0.000159994 0.000156769	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415 0.00032981 0.000494378 0.001013594 0.000888715 0.000888715 0.000817686 0.000805212 0.000790866 0.00072808 0.000713888 0.000701914	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241 0.86039 0.83431 1.8975 2.04956 2.28246 2.3697 2.446 2.64065 2.66455 2.68019	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204 4.91213 9.22283 15.35919 11.42541 9.13977 8.74283 8.36475 7.02425 6.72991 6.45173	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296 0.99184 0.9964 2.34883 2.62715 3.03558 3.18598 3.33234 3.70456 3.73686 3.74043	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073 1.14343 1.43097 4.49148 4.28415 3.85969 3.67769 3.46511 2.70782 2.59509 2.54278
634901.4 634925.5 634931.5 634937.5 634967.6 634967.6 634973.7 634560 634512.4 634625.1 634906.4 634949.7 634983.9 634990.1 634996.4 635021.5 635027.8 635034 635059.1	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89 4253783.83 4253701.83 4253827.87 4253847.26 4253902.69 4253925.56 4253948.43 4254039.9 4254062.77 4254085.64 4254177.11	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000128312 0.000127693 3.22889E-05 3.01179E-05 2.9205E-05 6.64219E-05 7.17447E-05 7.98974E-05 8.29512E-05 8.56221E-05 9.24358E-05 9.34751E-05 9.34751E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445 0.000222782 0.000168048 0.00031552 0.000390872 0.000390872 0.00029099 0.000286165 0.000240305 0.000230235 0.000220719 0.000187737	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05 6.11494E-05 6.14305E-05 0.000144811 0.00016197 0.000187151 0.000196423 0.000205447 0.000228395 0.000230387 0.000230607 0.000220325	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05 7.04953E-05 8.82228E-05 0.000276911 0.000264128 0.000237959 0.000226739 0.000213633 0.000166944 0.000159994 0.000156769 0.000189695	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415 0.00032981 0.000494378 0.001013594 0.000888715 0.000888715 0.000805212 0.000790866 0.00072808 0.000713888 0.000701914 0.000691232	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241 0.86039 0.83431 1.8975 2.04956 2.28246 2.3697 2.446 2.64065 2.66455 2.68019 2.67034	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204 4.91213 9.22283 15.35919 11.42541 9.13977 8.74283 8.36475 7.02425 6.72991 6.45173 5.48766	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296 0.99184 0.9964 2.34883 2.62715 3.03558 3.18598 3.33234 3.70456 3.73686 3.74043 3.57366	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073 1.14343 1.43097 4.49148 4.28415 3.85969 3.67769 3.46511 2.70782 2.59509 2.54278 3.07685
634901.4 634925.5 634931.5 634961.6 634967.6 634973.7 634560 634512.4 634625.1 634906.4 634949.7 634983.9 634990.1 634996.4 635021.5 635027.8 635034 635059.1 635065.4	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89 4253783.83 4253701.83 4253827.87 4253847.26 4253902.69 4253925.56 4253948.43 4254039.9 4254062.77 4254085.64 4254177.11 4254199.98	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000127693 3.22889E-05 3.01179E-05 2.9205E-05 6.64219E-05 7.17447E-05 7.98974E-05 8.29512E-05 8.56221E-05 9.24358E-05 9.32724E-05 9.34751E-05 9.28902E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445 0.000222782 0.000168048 0.00031552 0.00052545 0.000390872 0.000312679 0.00029099 0.000286165 0.000240305 0.000230235 0.000220719 0.000187737 0.000180645	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05 6.11494E-05 6.14305E-05 0.000144811 0.00016197 0.000187151 0.000196423 0.000205447 0.000228395 0.000230387 0.000230607 0.000220325 0.000216673	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05 7.04953E-05 8.82228E-05 0.000276911 0.000264128 0.000237959 0.000226739 0.000213633 0.000166944 0.000159994 0.000156769 0.000189695 0.000205203	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415 0.00032981 0.000494378 0.001013594 0.000888715 0.000888715 0.000817686 0.000805212 0.00072808 0.00072808 0.000713888 0.000701914 0.000691232 0.000695411	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241 0.86039 0.83431 1.8975 2.04956 2.28246 2.3697 2.446 2.64065 2.66455 2.68019 2.67034 2.65363	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204 4.91213 9.22283 15.35919 11.42541 9.13977 8.74283 8.36475 7.02425 6.72991 6.45173 5.48766 5.28035	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296 0.99184 0.9964 2.34883 2.62715 3.03558 3.18598 3.33234 3.70456 3.73686 3.74043 3.57366 3.51443	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073 1.14343 1.43097 4.49148 4.28415 3.85969 3.67769 3.46511 2.70782 2.59509 2.54278 3.07685 3.32838
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634901.4 634925.5 634931.5 634937.5 634967.6 634967.6 634973.7 634560 634512.4 634625.1 634906.4 634949.7 634983.9 634990.1 635021.5 635027.8 635027.8 635034 635059.1 635065.4 635071.6 635077.9	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89 4253783.83 4253701.83 4253827.87 4253847.26 4253902.69 4253925.56 4253948.43 4254039.9 4254062.77 4254085.64 4254177.11 4254199.98 4254222.85 4254245.72	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000128312 0.000127693 3.22889E-05 3.01179E-05 2.9205E-05 6.64219E-05 7.17447E-05 7.98974E-05 8.29512E-05 8.56221E-05 9.24358E-05 9.32724E-05 9.34751E-05 9.34751E-05 9.28902E-05 9.21705E-05 9.13377E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445 0.000222782 0.000168048 0.00031552 0.00052545 0.000390872 0.000312679 0.000299099 0.000286165 0.000240305 0.000230235 0.000220719 0.000187737 0.000180645 0.000173979 0.000167706	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05 6.11494E-05 6.14305E-05 0.000144811 0.00016197 0.000187151 0.000196423 0.000205447 0.000228395 0.000230387 0.000230387 0.000230607 0.000220325 0.000216673 0.000210293	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05 7.04953E-05 8.82228E-05 0.000276911 0.000264128 0.000237959 0.000226739 0.000213633 0.000166944 0.000159994 0.000156769 0.000189695 0.00022633 0.000216114 0.0002213	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415 0.00032981 0.000494378 0.001013594 0.000888715 0.000888715 0.000817686 0.000805212 0.00072808 0.00072808 0.000713888 0.000713888 0.000701914 0.000695624 0.000695624 0.000690636	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241 0.86039 0.83431 1.8975 2.04956 2.28246 2.3697 2.446 2.64065 2.66455 2.68019 2.67034 2.65363 2.63307 2.60928	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204 4.91213 9.22283 15.35919 11.42541 9.13977 8.74283 8.36475 7.02425 6.72991 6.45173 5.48766 5.28035 5.08549 4.90213	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296 0.99184 0.9964 2.34883 2.62715 3.03558 3.18598 3.33234 3.70456 3.73686 3.74043 3.57366 3.51443 3.46071 3.41094	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073 1.14343 1.43097 4.49148 4.28415 3.85969 3.67769 3.46511 2.70782 2.59509 2.54278 3.07685 3.32838 3.50536 3.58947
634901.4 634925.5 634931.5 634937.5 634961.6 634967.6 634973.7 634560 634512.4 634625.1 634906.4 634949.7 634983.9 634990.1 634996.4 635021.5 635027.8 635034 635059.1 635065.4 635071.6 635077.9 634581.8	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89 4253783.83 4253701.83 4253827.87 4253847.26 4253902.69 4253925.56 4253948.43 4254039.9 4254062.77 4254085.64 4254177.11 4254199.98 4254222.85 4254245.72 4253682.44	3.66579E-05 9.87871E-05 0.000119724 0.000122912 0.000125324 0.000128618 0.000128312 0.000127693 3.22889E-05 3.01179E-05 2.9205E-05 6.64219E-05 7.17447E-05 7.98974E-05 8.29512E-05 8.56221E-05 9.24358E-05 9.32724E-05 9.38199E-05 9.38199E-05 9.28902E-05 9.21705E-05 9.13377E-05 2.70487E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445 0.000222782 0.000168048 0.00031552 0.00052545 0.000390872 0.000312679 0.000299099 0.000286165 0.000240305 0.000230235 0.000220719 0.000187737 0.000180645 0.000173979 0.000167706 0.000223825	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05 6.11494E-05 6.14305E-05 0.000144811 0.00016197 0.000187151 0.000196423 0.000205447 0.000228395 0.000230387 0.000230387 0.0002303607 0.000220325 0.000216673 0.000210293 5.56907E-05	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05 7.04953E-05 8.82228E-05 0.000276911 0.000264128 0.000237959 0.000226739 0.000213633 0.000166944 0.000159994 0.000156769 0.000189695 0.000205203 0.00021314 0.0002213 7.73362E-05	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415 0.00032981 0.000494378 0.001013594 0.000888715 0.000817686 0.00085212 0.000790866 0.00072808 0.000713888 0.000713888 0.000701914 0.000695411 0.000695624 0.000690636 0.000383901	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241 0.86039 0.83431 1.8975 2.04956 2.28246 2.3697 2.446 2.64065 2.66455 2.68019 2.67034 2.65363 2.63307 2.60928 0.77271	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204 4.91213 9.22283 15.35919 11.42541 9.13977 8.74283 8.36475 7.02425 6.72991 6.45173 5.48766 5.28035 5.08549 4.90213 6.54253	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296 0.99184 0.9964 2.34883 2.62715 3.03558 3.18598 3.33234 3.70456 3.73686 3.74043 3.57366 3.51443 3.46071 3.41094 0.9033	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073 1.14343 1.43097 4.49148 4.28415 3.85969 3.67769 3.46511 2.70782 2.59509 2.54278 3.07685 3.32838 3.50536 3.58947 1.25439
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634901.4 634925.5 634931.5 634937.5 634961.6 634967.6 634973.7 634560 634512.4 634625.1 634906.4 634949.7 634983.9 634990.1 635021.5 635027.8 635027.8 635034 635059.1 635071.6 635077.9 634581.8 634534.2 634686.6 634601.1 634643.6 634792.3 634919.8 635053.4 635059.6 635059.6 635059.6 635090.3 635096.5	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89 4253783.83 4253701.83 4253827.87 4253847.26 4253902.69 4253925.56 4253948.43 4254039.9 4254062.77 4254085.64 4254177.11 4254199.98 4254222.85 4254245.72 4253682.44 4253683.38 4253684.32 4253591.98 4253677.65 4253753.8 4253772.84 4253772.84 4253814.33 4253836.78 4253926.59 4253971.5	3.66579E-05 9.87871E-05 0.000119724 0.000125324 0.000128618 0.000128618 0.000127693 3.22889E-05 3.01179E-05 2.9205E-05 6.64219E-05 7.17447E-05 7.98974E-05 8.29512E-05 8.56221E-05 9.24358E-05 9.32724E-05 9.38199E-05 9.34751E-05 9.3879E-05 9.28902E-05 9.21705E-05 9.13377E-05 2.70487E-05 2.70487E-05 2.58032E-05 2.4411E-05 2.32559E-05 2.46837E-05 3.23999E-05 4.99524E-05 5.55213E-05 5.87446E-05 6.18807E-05 6.38662E-05 6.98688E-05 7.08665E-05 7.08665E-05 7.08665E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000297128 0.000282846 0.000269445 0.000222782 0.000168048 0.00031552 0.00052545 0.000390872 0.000312679 0.000299099 0.000286165 0.000240305 0.000230235 0.000230235 0.000220719 0.000187737 0.000187737 0.000180645 0.000173979 0.000167706 0.000223825 0.000165691 0.000127316 0.000220843 0.000318705 0.0002493475 0.0002493475 0.000374648 0.000290557 0.000223085 0.000187912 0.000187912 0.0001875546	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05 6.11494E-05 6.14305E-05 0.000144811 0.00016197 0.000187151 0.000196423 0.000205447 0.000228395 0.000230387 0.000230387 0.000230607 0.000220325 0.000216673 0.000210293 5.56907E-05 5.21228E-05 4.83491E-05 4.77147E-05 5.18614E-05 7.31864E-05 0.000111998 0.000125198 0.000133806 0.000143089 0.000148661 0.000165028 0.000167402 0.000168928	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05 7.04953E-05 8.82228E-05 0.000276911 0.000264128 0.000237959 0.000226739 0.000213633 0.000166944 0.000159994 0.000156769 0.000189695 0.000205203 0.000216114 0.0002213 7.73362E-05 6.88602E-05 6.15507E-05 7.03269E-05 7.03269E-05 7.03269E-05 7.91827E-05 0.000135905 0.000224404 0.000229855 0.000220618 0.000199487 0.000168509 0.000154161	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415 0.00032981 0.000494378 0.001013594 0.00088715 0.000817686 0.00085212 0.000790866 0.00072808 0.000713888 0.000701914 0.000691232 0.000695411 0.000695624 0.000690636 0.000383901 0.000383901 0.000312477 0.000261627 0.00036214 0.000474433 0.002734966 0.000887378 0.000703725 0.000627542 0.000623269 0.000591318 0.000570309	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241 0.86039 0.83431 1.8975 2.04956 2.28246 2.3697 2.446 2.64065 2.66455 2.68019 2.67034 2.65363 2.63307 2.60928 0.77271 0.73713 0.69736 0.66436 0.70515 0.92558 1.42701 1.5861 1.67818 1.76777 1.82449 1.99597 2.02447 2.04751	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204 4.91213 9.22283 15.35919 11.42541 9.13977 8.74283 8.36475 7.02425 6.72991 6.45173 5.48766 5.28035 5.08549 4.90213 6.54253 4.84324 3.72152 6.45536 9.31592 72.88565 14.64519 10.95118 8.49314 6.52089 6.30052 5.49278 5.30858 5.13131	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296 0.99184 0.9964 2.34883 2.62715 3.03558 3.18598 3.33234 3.70456 3.74043 3.57366 3.74043 3.57366 3.51443 3.46071 3.41094 0.9033 0.84543 0.78422 0.77393 0.84119 1.18708 1.81661 2.03071 2.17033 2.3209 2.41127 2.67674 2.71526 2.74001	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073 1.14343 1.43097 4.49148 4.28415 3.85969 3.67769 3.46511 2.70782 2.59509 2.54278 3.07685 3.32838 3.50536 3.58947 1.25439 1.11691 0.99835 1.1407 1.28434 2.20437 3.63982 3.72824 3.57841 3.23567 3.16608 2.73321 2.61419 2.50049
634901.4 634925.5 634931.5 634937.5 634961.6 634967.6 634973.7 634560 634512.4 634625.1 634906.4 634949.7 634983.9 634990.1 635021.5 635027.8 635027.8 635034 635059.1 635077.9 634581.8 634534.2 634486.6 634601.1 634643.6 634792.3 634919.8 634919.8 635053.4 635059.6 635059.6 635084.2 635090.3	4253943.99 4254031.8 4254053.75 4254075.71 4254163.52 4254185.47 4254207.43 4253782.89 4253783.83 4253701.83 4253827.87 4253847.26 4253902.69 4253925.56 4253948.43 4254039.9 4254062.77 4254085.64 4254177.11 4254199.98 4254222.85 4254245.72 4253682.44 4253683.38 4253684.32 4253684.32 4253691.98 4253772.84 4253772.84 4253814.33 4253836.78 4253926.59 4253949.05	3.66579E-05 9.87871E-05 0.000119724 0.000125324 0.000128618 0.000128312 0.000127693 3.22889E-05 3.01179E-05 2.9205E-05 6.64219E-05 7.17447E-05 7.98974E-05 8.29512E-05 8.56221E-05 9.24358E-05 9.32724E-05 9.34751E-05 9.38199E-05 9.34751E-05 9.24358E-05 9.34751E-05 9.38199E-05 9.34751E-05 9.24358E-05 9.34751E-05 9.38199E-05 9.34751E-05 9.38199E-05 9.21705E-05 9.21705E-05 9.21705E-05 9.232559E-05 2.4411E-05 2.32559E-05 2.46837E-05 3.23999E-05 4.99524E-05 5.55213E-05 5.87446E-05 6.18807E-05 6.38662E-05 6.98688E-05 7.08665E-05	0.000360142 0.000505016 0.000405642 0.000384661 0.000364954 0.000282846 0.000269445 0.000222782 0.000168048 0.00031552 0.00052545 0.000390872 0.000312679 0.000299099 0.000286165 0.000240305 0.000230235 0.000220719 0.000187737 0.000187737 0.000187737 0.000165691 0.000223825 0.000127316 0.000220843 0.000220843 0.000318705 0.0002493475 0.000501023 0.000374648 0.000290557 0.000223085 0.000187912 0.000187912 0.000187912	0.000212592 0.000279555 0.000293947 0.000306706 0.000329047 0.000327416 0.000323151 6.67671E-05 6.11494E-05 6.14305E-05 0.000144811 0.00016197 0.000187151 0.000196423 0.000205447 0.000228395 0.000230387 0.000230387 0.000230387 0.000230607 0.000220325 0.000216673 0.000213361 0.000210293 5.56907E-05 5.21228E-05 4.83491E-05 4.77147E-05 5.18614E-05 7.31864E-05 0.000111998 0.000133806 0.000143089 0.000143089 0.000165028 0.000167402	0.000296988 0.000216401 0.000198591 0.000186366 0.000252451 0.000295227 0.000328015 7.95767E-05 7.04953E-05 8.82228E-05 0.000276911 0.000264128 0.000237959 0.000226739 0.000213633 0.000166944 0.000159994 0.000156769 0.000189695 0.000205203 0.000216114 0.0002213 7.73362E-05 6.88602E-05 6.15507E-05 7.03269E-05 7.91827E-05 0.000135905 0.000224404 0.000229855 0.000220618 0.000199487 0.000168509 0.000161171	0.001113383 0.001021321 0.00100011 0.00098335 0.001007245 0.001033801 0.001048304 0.000401415 0.00032981 0.000494378 0.001013594 0.000888715 0.000817686 0.00072808 0.00072808 0.000713888 0.000713888 0.000701914 0.000695624 0.000695624 0.000690636 0.000312477 0.000312477 0.000261627 0.00036214 0.000474433 0.002734966 0.000887378 0.000785223 0.000703725 0.000627542 0.000623269 0.000591318 0.000581051	2.82209 3.4202 3.51127 3.58017 3.67427 3.66553 3.64787 0.92241 0.86039 0.83431 1.8975 2.04956 2.28246 2.3697 2.446 2.64065 2.66455 2.68019 2.67034 2.65363 2.63307 2.60928 0.77271 0.73713 0.69736 0.66436 0.70515 0.92558 1.42701 1.5861 1.67818 1.76777 1.82449 1.99597 2.02447	14.76189 11.85713 11.24386 10.6678 8.68523 8.26776 7.87602 6.51204 4.91213 9.22283 15.35919 11.42541 9.13977 8.74283 8.36475 7.02425 6.72991 6.45173 5.48766 5.28035 5.08549 4.90213 6.54253 4.84324 3.72152 6.45536 9.31592 72.88565 14.64519 10.95118 8.49314 6.52089 6.30052 5.49278 5.30858	3.44824 4.53437 4.7678 4.97476 5.33713 5.31067 5.24149 1.08296 0.99184 0.9964 2.34883 2.62715 3.03558 3.18598 3.33234 3.70456 3.73686 3.74043 3.57366 3.51443 3.46071 3.41094 0.9033 0.84543 0.78422 0.77393 0.84119 1.18708 1.81661 2.03071 2.17033 2.3209 2.41127 2.67674 2.71526	4.81713 3.51001 3.22113 3.02285 4.09475 4.78857 5.32039 1.29073 1.14343 1.43097 4.49148 4.28415 3.85969 3.67769 3.46511 2.70782 2.59509 2.54278 3.07685 3.32838 3.50536 3.58947 1.25439 1.11691 0.99835 1.1407 1.28434 2.20437 3.63982 3.72824 3.57841 3.23567 3.16608 2.73321 2.61419

635115	4254038.86	7.30644E-05	0.000158763	0.000168402	0.000137391	0.000537621	2.08726	4.64074	2.73148	2.22847
635121.1	4254061.31	7.32174E-05	0.000153654	0.000166706	0.000133759	0.000527337	2.09163	4.4914	2.70396	2.16957
635127.3	4254083.76	7.32226E-05	0.000148769	0.000164479	0.000131447	0.000517918	2.09178	4.34861	2.66784	2.13207
635133.4	4254106.21	7.30868E-05	0.000144114	0.000162004	0.000130713	0.000509918	2.0879	4.21254	2.62769	2.12016
635158.1	4254196.02	7.13523E-05	0.00012766	0.00015184	0.000142045	0.000492897	2.03835	3.73156	2.46284	2.30397
635164.2	4254218.48	7.06872E-05	0.000124033	0.000149356	0.00014547	0.000489546	2.01935	3.62554	2.42255	2.35952
635170.4	4254240.93	6.99577E-05	0.000120584	0.000146999	0.000147513	0.000485054	1.99851	3.52475	2.38431	2.39266
635176.5	4254263.38	6.91701E-05	0.000117297	0.000144835	0.000147749	0.000479052	1.97601	3.42867	2.34921	2.39649
634532.2	4253583.4	2.1772E-05	0.000139073	4.33244E-05	6.04465E-05	0.000264616	0.62197	4.06517	0.70272	0.98044
634484.7	4253584.34	2.0857E-05	0.000108049	4.07738E-05	5.47671E-05	0.000224447	0.59583	3.15834	0.66135	0.88832
634598.8	4253491.87	1.96889E-05	0.000178168	3.99156E-05	5.90945E-05	0.000296867	0.56246	5.20796	0.64743	0.95851
634661.8	4253520.07	2.1178E-05	0.000315707	4.43596E-05	6.84441E-05	0.000449688	0.605	9.22828	0.71951	1.11016
634913.4	4253632.83	3.66726E-05	0.000548686	8.41433E-05	0.000167397	0.000836898	1.04764	16.03839	1.3648	2.71517
634934.4	4253642.23	3.91614E-05	0.000465661	8.93104E-05	0.000176216	0.000770348	1.11874	13.61153	1.44861	2.85821
634976.4	4253661.02	4.3898E-05	0.000349143	9.91581E-05	0.000170210	0.000679413	1.25405			3.03661
								10.20564	1.60834	
635018.3	4253679.82	4.75245E-05	0.000271516	0.000106957	0.000188325	0.000614323	1.35765	7.93657	1.73483	3.05463
635060.3	4253698.61	4.96188E-05	0.000216407	0.00011161	0.000181094	0.00055873	1.41748	6.32571	1.81031	2.93733
635129.3	4253748.97	5.16323E-05	0.000155254	0.000116188	0.000158711	0.000481784	1.475	4.53815	1.88456	2.57428
635135.3	4253771.13	5.28953E-05	0.000151359	0.000119183	0.000156574	0.000480013	1.51108	4.42432	1.93315	2.53963
635141.4	4253793.3	5.40455E-05	0.000147525	0.000113133	0.000153723	0.000477233	1.54394	4.31225	1.97785	2.49338
635147.5	4253815.46	5.50761E-05	0.000143764	0.000124336	0.000150277	0.000473453	1.57338	4.20229	2.01672	2.43749
635153.6	4253837.63	5.59841E-05	0.000140066	0.00012633	0.000146331	0.000468712	1.59932	4.09422	2.04907	2.37349
635159.6	4253859.79	5.67682E-05	0.000136445	0.00012796	0.000142016	0.000463189	1.62172	3.98835	2.07551	2.30349
635177.9	4253926.28	5.84121E-05	0.000126082	0.000129997	0.000128414	0.000442905	1.66868	3.68545	2.10855	2.08287
635184	4253948.45	5.87393E-05	0.000122809	0.0001296	0.000124159	0.000435308	1.67803	3.58978	2.10211	2.01385
635190	4253970.61	5.89651E-05	0.000119637	0.000128744	0.000120196	0.000427543	1.68448	3.49706	2.08823	1.94958
635196.1	4253992.78	5.90964E-05	0.000116574	0.000127493	0.00011655	0.000419713	1.68823	3.40753	2.06793	1.89043
635202.2	4254014.94	5.91339E-05	0.000113615	0.000125961	0.000113241	0.000411951	1.6893	3.32102	2.04308	1.83677
635208.3	4254037.11	5.90831E-05	0.000110763	0.000124193	0.000110308	0.000404347	1.68785	3.23766	2.01441	1.78919
635214.3	4254059.27	5.89466E-05	0.000108019	0.00012311	0.000117803	0.00039708	1.68395	3.15747	1.98388	1.74856
635220.4	4254081.44	5.87285E-05	0.000105386	0.000120334	0.000105791	0.00039024	1.67772	3.08048	1.95182	1.71593
635226.5	4254103.6	5.84282E-05	0.000102852	0.000118295	0.000104318	0.000383893	1.66914	3.00641	1.91874	1.69203
635232.6	4254125.76	5.80526E-05	0.000100417	0.000116209	0.000103393	0.000378071	1.65841	2.93525	1.8849	1.67703
635256.9	4254214.42	5.59488E-05	9.16045E-05	0.000107954	0.000103397	0.000358904	1.59831	2.67765	1.75101	1.67709
635263	4254236.59	5.53092E-05	8.9611E-05	0.00010605	0.000103289	0.00035426	1.58004	2.61938	1.72013	1.67535
635269	4254258.75	5.46396E-05	8.76983E-05	0.000104156	0.000102673	0.000349167	1.56091	2.56347	1.68941	1.66535
635275.1	4254280.92	5.39426E-05	8.58578E-05	0.00010217	0.00010173	0.000343701	1.541	2.50967	1.6572	1.65006
634554.1	4253482.95	1.89604E-05	0.000130908	3.7674E-05	5.41944E-05	0.000241737	0.54165	3.82651	0.61107	0.87903
634506.5	4253483.89	1.83881E-05	0.000101353	3.59292E-05	5.00538E-05	0.000205724	0.5253	2.96259	0.58277	0.81187
634479.5	4254204.05	7.2051E-05	0.000203981	0.000143817	0.000380305	0.000800154	2.05831	5.96247	2.33271	6.16853
634468.2	4254180.52	6.45078E-05	0.000190392	0.000130167	0.000319762	0.000704829	1.84282	5.56526	2.11131	5.18652
634465.3	4254202.2	6.74006E-05	0.00018996	0.000136923	0.000351769	0.000746052	1.92546	5.55263	2.22088	5.70568
634461	4254165.48	6.03923E-05	0.000182243	0.000122386	0.000280004	0.000645025	1.72525	5.32706	1.9851	4.54165
634454	4254178.67	6.06979E-05	0.000177587	0.000123952	0.000296437	0.000658674	1.73398	5.19097	2.01049	4.8082
634451.2	4254200.35	6.32714E-05	0.000177295	0.000130302	0.000325811	0.00069668	1.8075	5.18244	2.1135	5.28464
634464.3	4254124.94	5.55364E-05	0.000180598	0.000111797	0.000187585	0.000535516	1.58653	5.27897	1.81334	3.04262
634422.8	4254196.65	5.62634E-05	0.000155356	0.000118308	0.000280964	0.000610891	1.6073	4.54113	1.91895	4.55723
634420.8	4254155.54	5.11153E-05	0.000150261	0.000105326	0.000220827	0.000527529	1.46023	4.39221	1.70838	3.5818
634457.8	4254113.09	5.28676E-05	0.000173642	0.000106617	0.000161114	0.000494241	1.51029	5.07564	1.72932	2.61327
634476.3	4254105.8	5.54177E-05	0.000189279	0.000111204	0.000150664	0.000506565	1.58314	5.53272	1.80373	2.44377
634411.5	4254173.13	5.13929E-05	0.000105275	0.000111204	0.000130004	0.000543188	1.46816	4.26079	1.74106	3.87154
634408.7	4254194.81	5.32635E-05	0.000145797	0.000112874	0.000261454	0.000573389	1.5216	4.26174	1.83081	4.24077
634405.5	4254155.89	4.8625E-05	0.000140445	0.000100752	0.000208944	0.000498766	1.38909	4.10528	1.63419	3.38907
634413.6	4254140.5	4.83989E-05	0.000144107	9.92512E-05	0.000190701	0.000482458	1.38263	4.21232	1.60985	3.09316
634421.7	4254125.11	4.81577E-05	0.000147902	9.79398E-05	0.000169733	0.000463732	1.37574	4.32325	1.58858	2.75306
634462.2	4254096.98	5.17573E-05	0.000175381	0.00010408	0.000134773	0.00046599	1.47857	5.12647	1.68817	2.18601
634397.3	4254171.28	4.88361E-05	0.000136909	0.000102334	0.000222902	0.000510982	1.39512	4.00193	1.65986	3.61546
634394.5	4254192.96	5.05331E-05	0.000137023	0.000107677	0.000243576	0.00053881	1.4436	4.00526	1.74652	3.9508
634357.5	4254146.34	4.1261E-05	0.000114084	8.53615E-05	0.000164634	0.00040534	1.17872	3.33474	1.38456	2.67035
634367.2	4254127.88	4.10895E-05	0.000117196	8.38708E-05	0.000149524	0.00039168	1.17382	3.42569	1.36038	2.42527
634415.9	4254064.83	4.21032E-05	0.000137835	8.38584E-05	9.95163E-05	0.000363313	1.20278	4.029	1.36018	1.61415
634454.7	4254049.54	4.56363E-05	0.000157055	9.16014E-05	8.81988E-05	0.000388651	1.30371	4.77086	1.48577	1.43058
634474.1	4254041.9	4.75227E-05	0.000178552	9.5782E-05	8.21365E-05	0.000403993	1.3576	5.21918	1.55358	1.33225
634347.8	4254164.8	4.14189E-05	0.000111082	8.70113E-05	0.000176167	0.000415679	1.18323	3.24698	1.41132	2.85742
634344.9	4254186.48	4.26584E-05	0.000111398	9.15403E-05	0.000191565	0.000437162	1.21864	3.25624	1.48478	3.10718
634307.5	4254140.75	3.56487E-05	9.34567E-05	7.28911E-05	0.000133179	0.000335176	1.01839	2.73179	1.18229	2.16016
634316.7	4254123.16	3.55479E-05	9.55637E-05	7.17505E-05	0.000124585	0.000327447	1.01551	2.79338	1.16379	2.02077
634326	4254105.58	3.5438E-05	9.77371E-05	7.06426E-05	0.000124363	0.000327447	1.01237	2.85691	1.14582	1.85632
634335.3	4254087.99	3.53154E-05	9.99759E-05	6.9703E-05	0.000105209	0.000310204	1.00887	2.92235	1.13058	1.70649
634344.5	4254070.41	3.51782E-05	0.000102282	6.8835E-05	9.62845E-05	0.00030258	1.00495	2.98976	1.1165	1.56173
634353.8	4254052.82	3.50193E-05	0.000104656	6.80828E-05	8.83504E-05	0.000296109	1.00041	3.05916	1.1043	1.43304
634418.6	4254013.39	3.85173E-05	0.000133672	7.59225E-05	7.71136E-05	0.000325225	1.10034	3.9073	1.23146	1.25078
634474.1	4253991.54	4.25373E-05	0.00017111	8.57925E-05	7.15588E-05	0.000370999	1.21518	5.00164	1.39155	1.16068
634298.2	4254158.33	3.57407E-05	9.14146E-05	7.40403E-05	0.000140266	0.000370333	1.02102	2.6721		2.27511
									1.20093	
634258.7	4254132.63	3.11978E-05	7.78736E-05	6.22647E-05	0.000107854	0.00027919	0.89124	2.27629	1.00993	1.74939
634268.9	4254113.39	3.11299E-05	7.95469E-05	6.1248E-05	0.000101497	0.000273421	0.8893	2.3252	0.99344	1.64627
634309.4	4254036.46	3.07501E-05	8.67455E-05	5.81857E-05	7.69219E-05	0.000252603	0.87845	2.53562	0.94377	1.24767
634319.6	4254017.22	3.06073E-05	8.86637E-05	5.76278E-05	7.26167E-05	0.000249515	0.87437	2.59169	0.93472	1.17784
634349.9	4253990.02	3.14579E-05	9.74884E-05	5.95045E-05	6.95082E-05	0.000257959	0.89867	2.84964	0.96516	1.12742
634370.2	4253982.06	3.25084E-05	0.000105159	6.2023E-05	6.96019E-05	0.000269292	0.92868	3.07385	1.00601	1.12894
634390.4	4253974.09	3.35869E-05	0.000113766	6.47492E-05	6.95754E-05	0.000281677	0.95949	3.32544	1.05023	1.12851
634430.9	4253958.16	3.58076E-05	0.000134447	7.07764E-05	6.91864E-05	0.000310218	1.02293	3.92997	1.14799	1.1222
634471.3	4253942.23	3.80661E-05	0.000161215	7.67296E-05	6.8642E-05	0.000344652	1.08745	4.71239	1.24455	1.11337
634248.6	4254151.86	3.12584E-05	7.62534E-05	6.33762E-05	0.000113315	0.000284203	0.89297	2.22893	1.02796	1.83796
634245.8	4254173.54	3.19854E-05	7.6693E-05	6.62616E-05	0.000121269	0.000296209	0.91374	2.24178	1.07476	1.96697
634208.8	4254126.92	2.76038E-05	6.56255E-05	5.36999E-05	8.93498E-05	0.000236279	0.78857	1.91827	0.87101	1.44925
634218.5	4254108.46	2.75667E-05	6.68027E-05	5.29804E-05	8.5425E-05	0.000232775	0.78751	1.95268	0.85934	1.38559

62.4220.2	425 4000 00	2 752275 05	C 00124F 0F	F 22402F 0F	0.442725.05	0.000220074	0.70630	1 00004	0.04047	4 24500
634228.2	4254089.99	2.75237E-05	6.80124E-05	5.23103E-05	8.11272E-05	0.000228974	0.78628	1.98804	0.84847	1.31588
634238	4254071.53	2.74757E-05	6.9256E-05	5.16691E-05	7.70464E-05	0.000225447	0.78491	2.02439	0.83807	1.24969
634247.7	4254053.07	2.74183E-05	7.05262E-05	5.10834E-05	7.30304E-05	0.000222058	0.78327	2.06152	0.82857	1.18455
634257.4	4254034.6	2.73497E-05	7.18238E-05	5.05359E-05	6.93424E-05	0.000219052	0.78131	2.09945	0.81969	1.12473
634267.2	4254016.14	2.72675E-05	7.31515E-05	5.00599E-05	6.61753E-05	0.000216654	0.77896	2.13826	0.81197	1.07336
634276.9	4253997.67	2.71684E-05	7.45018E-05	4.96358E-05	6.36044E-05	0.00021491	0.77613	2.17773	0.80509	1.03166
634286.6	4253979.21	2.70518E-05	7.58795E-05	4.92498E-05	6.16253E-05	0.000213806	0.7728	2.218	0.79883	0.99956
634335.2	4253945.45	2.85115E-05	8.81485E-05	5.27844E-05	6.19959E-05	0.00023144	0.8145	2.57663	0.85616	1.00557
634354.6	4253937.8	2.93331E-05	9.45008E-05	5.49237E-05	6.28806E-05	0.000241638	0.83797	2.76231	0.89086	1.01992
634374	4253930.16	3.01662E-05	0.000101594	5.71654E-05	6.35649E-05	0.000252491	0.86177	2.96965	0.92722	1.03102
634393.5	4253922.51	3.10063E-05	0.000109545	5.95803E-05	6.41919E-05	0.000264324	0.88577	3.20207	0.96639	1.04119
634432.3	4253907.22	3.26939E-05	0.000128569	6.4523E-05	6.53701E-05	0.000291156	0.93398	3.75815	1.04656	1.0603
634451.7	4253899.57	3.354E-05	0.000129393	6.69102E-05	6.61167E-05	0.00030656	0.95815	4.09209	1.08528	1.07241
634199	4254145.39	2.76357E-05		5.43657E-05		0.00033030			0.88181	
			6.44781E-05		9.25588E-05		0.78948	1.88473		1.5013
634109.9	4254113.51	2.21567E-05	4.86111E-05	4.06253E-05	6.30088E-05	0.000174402	0.63296	1.42093	0.65894	1.022
634119.8	4254094.57	2.21497E-05	4.92981E-05	4.02295E-05	6.12092E-05	0.000172886	0.63276	1.44101	0.65252	0.99281
634129.8	4254075.63	2.21399E-05	5.00021E-05	3.98928E-05	5.93799E-05	0.000171415	0.63248	1.46159	0.64706	0.96314
634139.8	4254056.69	2.2127E-05	5.0724E-05	3.96043E-05	5.7555E-05	0.00017001	0.63211	1.48269	0.64238	0.93354
634149.8	4254037.75	2.21091E-05	5.14588E-05	3.93133E-05	5.56802E-05	0.000168561	0.6316	1.50417	0.63766	0.90313
634159.8	4254018.82	2.2085E-05	5.22077E-05	3.90315E-05	5.38923E-05	0.000167216	0.63091	1.52606	0.63309	0.87413
634169.7	4253999.88	2.20528E-05	5.29696E-05	3.87856E-05	5.23189E-05	0.000166127	0.62999	1.54833	0.6291	0.84861
634179.7	4253980.94	2.20118E-05	5.37438E-05	3.85673E-05	5.09927E-05	0.000165316	0.62882	1.57096	0.62556	0.8271
634189.7	4253962	2.196E-05	5.45251E-05	3.83712E-05	4.98929E-05	0.000164749	0.62734	1.5938	0.62238	0.80926
634249.6	4253878.41	2.21963E-05	6.10433E-05	3.88429E-05	4.79514E-05	0.000170034	0.63409	1.78433	0.63003	0.77777
634269.5	4253870.56	2.27585E-05	6.46844E-05	4.01623E-05	4.91167E-05	0.000176722	0.65015	1.89076	0.65143	0.79667
634289.4	4253862.72	2.33259E-05	6.8687E-05	4.15519E-05	5.02548E-05	0.00018382	0.66636	2.00776	0.67397	0.81513
634309.3	4253854.88	2.38965E-05	7.31071E-05	4.30433E-05	5.14033E-05	0.00019145	0.68266	2.13696	0.69816	0.83376
634349.2	4253839.2	2.50436E-05	8.34712E-05	4.63676E-05	5.38472E-05	0.00020873	0.71543	2.43991	0.75208	0.8734
634369.1	4253831.35	2.56194E-05	8.95826E-05	4.82147E-05	5.52739E-05	0.000218691	0.73188	2.61855	0.78204	0.89654
634389	4253823.51	2.6197E-05	9.64525E-05	5.00414E-05	5.66845E-05	0.000229375	0.74838	2.81936	0.81167	0.91942
634408.9	4253815.67	2.67749E-05	0.000104209	5.18133E-05	5.82018E-05	0.000240999	0.76489	3.04609	0.84041	0.94403
634428.8	4253807.83	2.73501E-05	0.000113004	5.34847E-05	5.99527E-05	0.000253791	0.78132	3.30317	0.86752	0.97243
634468.7	4253792.14	2.848E-05	0.000134478	5.67166E-05	6.42838E-05	0.000283959	0.8136	3.93088	0.91994	1.04268
634099.9	4254132.45	2.21606E-05	4.79361E-05	4.10168E-05	6.4388E-05	0.000175501	0.63307	1.4012	0.66529	1.04437
634097	4254154.13	2.25404E-05	4.8267E-05	4.23639E-05	6.74398E-05	0.000180611	0.64392	1.41087	0.68714	1.09387
634010.8	4254100.27	1.8253E-05	3.75542E-05	3.20315E-05	4.72128E-05	0.000135052	0.52144	1.09773	0.51955	0.76579
634021	4254081.03	1.82614E-05	3.79723E-05	3.18392E-05	4.63657E-05	0.000134439	0.52168	1.10995	0.51643	0.75205
634031.1	4254061.8	1.8268E-05	3.83961E-05	3.16567E-05	4.54872E-05	0.000133808	0.52187	1.12234	0.51347	0.7378
634041.3	4254042.57	1.82712E-05	3.88241E-05	3.14662E-05	4.4481E-05	0.000133042	0.52196	1.13485	0.51038	0.72148
634051.4	4254023.33	1.82733E-05	3.92623E-05	3.13564E-05	4.35507E-05	0.000132443	0.52202	1.14766	0.5086	0.70639
634061.5	4254004.1	1.82719E-05	3.97091E-05	3.12862E-05	4.26727E-05	0.00013194	0.52198	1.16072	0.50746	0.69215
634071.7	4253984.86	1.82652E-05	4.01604E-05	3.12005E-05	4.18022E-05	0.000131428	0.52179	1.17391	0.50607	0.67803
634081.8	4253965.63	1.82533E-05	4.06164E-05	3.11135E-05	4.10057E-05	0.000130989	0.52145	1.18724	0.50466	0.66511
634092	4253946.4	1.82348E-05	4.10765E-05	3.10371E-05	4.03108E-05	0.000130659	0.52092	1.20069	0.50342	0.65384
634152.8	4253830.99	1.79684E-05	4.3822E-05	3.04532E-05	3.75987E-05	0.000130033	0.51331	1.28094	0.49395	0.60985
634183.2	4253803.79	1.82999E-05	4.65219E-05	3.12418E-05	3.83774E-05	0.000134441	0.52278	1.35986	0.50674	0.62248
634203.4	4253795.83	1.87094E-05	4.89546E-05	3.21209E-05	3.93762E-05	0.000139161	0.53448	1.43097	0.521	0.63868
634223.6	4253787.86	1.91215E-05	5.15902E-05	3.30574E-05	4.04058E-05	0.000144175	0.54625	1.50801	0.53619	0.65538
634264.1	4253771.93	1.99532E-05	5.75856E-05	3.52196E-05	4.27603E-05	0.000155519	0.57001	1.68326	0.57126	0.69357
634284.3	4253763.97	2.03722E-05	6.10098E-05	3.6354E-05	4.39052E-05	0.000161641	0.58198	1.78335	0.58966	0.71214
634304.5	4253756	2.07933E-05	6.4774E-05	3.75494E-05	4.51E-05	0.000168217	0.59401	1.89338	0.60905	0.73152
634324.8	4253748.04	2.12165E-05	6.8934E-05	3.87991E-05	4.63633E-05	0.000175313	0.6061	2.01498	0.62932	0.75201
634365.2	4253732.11	2.2065E-05	7.86855E-05	4.13854E-05	4.92831E-05	0.000191419	0.63034	2.30002	0.67127	0.79937
634385.5	4253724.14	2.24872E-05	8.44421E-05	4.26629E-05	5.09588E-05	0.000200551	0.6424	2.46829	0.69199	0.82655
634405.7	4253716.18	2.29065E-05	9.09254E-05	4.38959E-05	5.28842E-05	0.000210612	0.65438	2.6578	0.71199	0.85778
634425.9	4253708.21	2.33164E-05	9.82677E-05	4.50698E-05	5.48596E-05	0.000221514	0.66609	2.87242	0.73103	0.88982
634000.7	4254119.5	1.82439E-05	3.71437E-05	3.22714E-05	4.79946E-05	0.000221314	0.52118	1.08573	0.52344	0.77847
633997.9	4254141.18	1.85082E-05	3.74221E-05	3.31209E-05	4.97073E-05	0.000138759	0.52873	1.09387	0.53722	0.80625
633911.3	4254088.09	1.53472E-05	2.98277E-05	2.66104E-05	3.78225E-05	0.000109608	0.43843	0.87188	0.43162	0.61348
633921	4254069.63	1.53605E-05	3.00679E-05	2.64501E-05	3.73269E-05	0.000109205	0.43881	0.8789	0.42902	0.60544
633930.8	4254051.16	1.53735E-05	3.03094E-05	2.63139E-05	3.68077E-05	0.000108804	0.43918	0.88596	0.42681	0.59702
633940.5		1.53854E-05	3.05523E-05	2.62017E-05	3.62627E-05	0.000108402	0.43952	0.89306	0.42499	0.58818
633950.2	4254014.23	1.53955E-05	3.07969E-05	2.61098E-05	3.56998E-05	0.000108002	0.43981	0.90021	0.4235	0.57905
633960	4253995.77	1.54046E-05	3.10442E-05	2.60408E-05	3.51339E-05	0.000107623	0.44007	0.90744	0.42238	0.56987
633969.7	4253977.31	1.54113E-05	3.12943E-05	2.6005E-05	3.46043E-05	0.000107315	0.44026	0.91475	0.4218	0.56128
633979.4	4253958.84	1.54155E-05	3.15475E-05	2.60056E-05	3.41333E-05	0.000107102	0.44038	0.92215	0.42181	0.55364
633989.2	4253940.38	1.54158E-05	3.18013E-05	2.59773E-05	3.36388E-05	0.000106833	0.44039	0.92957	0.42135	0.54562
634047.6	4253829.59	1.53269E-05	3.33018E-05	2.57257E-05	3.14915E-05	0.000105846	0.43785	0.97343	0.41727	0.51079
634057.3	4253811.12	1.52954E-05	3.35389E-05	2.56567E-05	3.12603E-05	0.000105751	0.43695	0.98036	0.41615	0.50704
634067	4253792.66	1.52587E-05	3.37722E-05	2.56012E-05	3.10864E-05	0.000105731	0.4359	0.98718	0.41525	0.50422
634076.8	4253774.19	1.52152E-05	3.39983E-05	2.5529E-05	3.09187E-05	0.000105661	0.43466	0.99379	0.41408	0.5015
634086.5	4253755.73	1.51652E-05	3.422E-05	2.54884E-05	3.08262E-05	0.0001057	0.43323	1.00027	0.41342	0.5
634115.6	4253729.62	1.53997E-05	3.59169E-05	2.60272E-05	3.15032E-05	0.000108847	0.43993	1.04987	0.42216	0.51098
634135.1	4253721.97	1.56945E-05	3.75032E-05	2.66671E-05	3.23299E-05	0.000112195	0.44835	1.09624	0.43254	0.52439
634173.9	4253706.68	1.62882E-05	4.10119E-05	2.7976E-05	3.39649E-05	0.000119241	0.46531	1.1988	0.45377	0.55091
634193.3	4253699.03	1.65892E-05	4.29643E-05	2.87233E-05	3.48873E-05	0.000123164	0.47391	1.25587	0.46589	0.56587
634212.7	4253691.39	1.68916E-05	4.50648E-05	2.94551E-05	3.57572E-05	0.000127169	0.48255	1.31727	0.47776	0.57998
634232.2	4253683.74	1.71965E-05	4.73337E-05	3.02233E-05	3.66598E-05	0.000131413	0.49126	1.38359	0.49022	0.59462
634271	4253668.45	1.78133E-05	5.24571E-05	3.19218E-05	3.86752E-05	0.000140867	0.50888	1.53335	0.51777	0.62731
634290.4	4253660.8	1.81242E-05	5.53602E-05	3.28207E-05	3.9788E-05	0.000146093	0.51776	1.61821	0.53235	0.64536
634309.9	4253653.15	1.8435E-05	5.85281E-05	3.36998E-05	4.09058E-05	0.000140055	0.52664	1.71081	0.54661	0.66349
634329.3	4253645.51	1.87469E-05	6.20005E-05	3.45704E-05	4.21086E-05	0.000151309	0.53555	1.81231	0.56073	0.683
634387.5	4253622.57	1.96609E-05	7.46777E-05	3.71733E-05	4.64711E-05	0.000177983	0.56166	2.18287	0.60295	0.75376
634407	4253614.92	1.99451E-05	7.98616E-05	3.79668E-05	4.80421E-05	0.000185816	0.56978	2.3344	0.61582	0.77924
634426.4	4253607.28	2.02119E-05	8.56675E-05	3.8727E-05	4.96752E-05	0.000194282	0.5774	2.50411	0.62815	0.80573
634445.8	4253599.63	2.04551E-05	9.21984E-05	3.94471E-05	5.1346E-05	0.000203447	0.58435	2.69501	0.63983	0.83283
633901.6	4254106.56	1.53336E-05	2.95889E-05	2.67929E-05	3.82905E-05	0.000110006	0.43804	0.8649	0.43458	0.62107

622000.7	4254420.24	1 55255 05	2 002075 05	2 720775 05	2.020705.05	0.00011316	0.44251	0.07222	0.44430	0.62002
633898.7	4254128.24	1.5525E-05	2.98397E-05	2.73977E-05	3.93978E-05	0.00011216	0.44351	0.87223	0.44439	0.63903
633812.3	4254074.88	1.31199E-05	2.41774E-05	2.28558E-05	3.15328E-05	9.16858E-05	0.3748	0.70672	0.37072	0.51146
633822.1	4254056.15	1.31346E-05	2.43232E-05	2.27078E-05	3.11801E-05	9.13457E-05	0.37522	0.71098	0.36832	0.50574
633832	4254037.42	1.31489E-05	2.44682E-05	2.25814E-05	3.0812E-05	9.10106E-05	0.37563	0.71522	0.36627	0.49977
633841.9	4254018.69	1.31633E-05	2.46136E-05	2.24766E-05	3.04292E-05	9.06827E-05	0.37604	0.71947	0.36457	0.49356
633851.8	4253999.95	1.31769E-05	2.47577E-05	2.23916E-05	3.00352E-05	9.03613E-05	0.37643	0.72368	0.36319	0.48717
633861.6	4253981.22	1.31899E-05	2.49027E-05	2.23324E-05	2.96468E-05	9.00717E-05	0.3768	0.72792	0.36223	0.48087
633871.5	4253962.49	1.32021E-05	2.50498E-05	2.23182E-05	2.92991E-05	8.98692E-05	0.37715	0.73222	0.362	0.47523
633881.4	4253943.76	1.32119E-05	2.51956E-05	2.22978E-05	2.89292E-05	8.96345E-05	0.37743	0.73648	0.36167	0.46923
633891.3	4253925.02	1.32196E-05	2.53416E-05	2.22744E-05	2.85519E-05	8.93875E-05	0.37765	0.74075	0.36129	0.46311
633901.1	4253906.29	1.32245E-05	2.54874E-05	2.22578E-05	2.81943E-05	8.91639E-05	0.37779	0.74501	0.36102	0.45731
633911	4253887.56	1.32273E-05	2.56338E-05	2.22467E-05	2.78607E-05	8.89685E-05	0.37787	0.74929	0.36084	0.4519
633920.9	4253868.83	1.32266E-05	2.57792E-05	2.22362E-05	2.75556E-05	8.87976E-05	0.37785	0.75354	0.36067	0.44695
		1.32228E-05							0.36049	0.4425
633930.8	4253850.09		2.59232E-05	2.22251E-05	2.72812E-05	8.86523E-05	0.37774	0.75775		
633940.6	4253831.36	1.32161E-05	2.60662E-05	2.22084E-05	2.70358E-05	8.85266E-05	0.37755	0.76193	0.36022	0.43852
633950.5	4253812.63	1.32049E-05	2.62041E-05	2.21585E-05	2.67812E-05	8.83487E-05	0.37723	0.76596	0.35941	0.43439
633960.4	4253793.9	1.31913E-05	2.63399E-05	2.21209E-05	2.65833E-05	8.82354E-05	0.37684	0.76993	0.3588	0.43118
633970.3	4253775.17	1.31738E-05	2.64726E-05	2.20962E-05	2.64409E-05	8.81835E-05	0.37634	0.77381	0.3584	0.42887
633980.1	4253756.43	1.31528E-05	2.66016E-05	2.20685E-05	2.63268E-05	8.81497E-05	0.37574	0.77758	0.35795	0.42702
633990	4253737.7	1.31269E-05	2.67255E-05	2.20371E-05	2.62399E-05	8.81293E-05	0.375	0.7812	0.35744	0.42561
633999.9	4253718.97	1.30957E-05	2.68438E-05	2.20038E-05	2.61752E-05	8.81184E-05	0.37411	0.78466	0.3569	0.42456
634009.8	4253700.24	1.30593E-05	2.69577E-05	2.19705E-05	2.61314E-05	8.81189E-05	0.37307	0.78799	0.35636	0.42385
634019.6	4253681.5	1.30173E-05	2.70648E-05	2.19366E-05	2.60999E-05	8.81186E-05	0.37187	0.79112	0.35581	0.42334
634088.6	4253639.5	1.36621E-05	3.04958E-05	2.33231E-05	2.79723E-05	9.54534E-05	0.39029	0.89141	0.3783	0.45371
634108.3	4253631.74	1.38963E-05	3.17459E-05	2.382E-05	2.86154E-05	9.80776E-05	0.39698	0.92795	0.38636	0.46414
634128	4253623.99	1.41329E-05	3.30787E-05	2.43392E-05	2.92775E-05	0.000100828	0.40374	0.96691	0.39478	0.47488
634147.7	4253616.23	1.43723E-05	3.4504E-05	2.48897E-05	2.99723E-05	0.000103738	0.41058	1.00857	0.40371	0.48615
634187.1	4253600.71	1.48582E-05	3.76681E-05	2.60993E-05	3.14933E-05	0.000110119	0.42446	1.10106	0.42333	0.51082
634206.8	4253592.96	1.5105E-05	3.94296E-05	2.67165E-05	3.22633E-05	0.000113514	0.43151	1.15255	0.43334	0.52331
634226.5	4253585.2	1.53528E-05	4.1327E-05	2.73496E-05	3.30654E-05	0.000117095	0.43859	1.20801	0.44361	0.53632
634246.2	4253577.44	1.56028E-05	4.33765E-05	2.79976E-05	3.39119E-05	0.000120889	0.44573	1.26792	0.45412	0.55005
634285.6	4253561.93	1.61058E-05	4.80121E-05	2.9386E-05	3.5891E-05	0.000129395	0.4601	1.40342	0.47664	0.58215
634305.4	4253554.17	1.63561E-05	5.06364E-05	3.00389E-05	3.69107E-05	0.000133942	0.46725	1.48013	0.48723	0.59869
634325.1	4253534.17	1.66021E-05	5.34985E-05	3.06776E-05	3.79915E-05	0.000133342	0.47428	1.56379	0.49759	0.61622
634344.8	4253538.66	1.68412E-05	5.66315E-05	3.13034E-05	3.91357E-05	0.000143912	0.48111	1.65537	0.50774	0.63478
634384.2	4253523.14	1.72851E-05	6.38643E-05	3.25599E-05	4.17066E-05	0.000155416	0.49379	1.86679	0.52812	0.67648
634403.9	4253515.39	1.74836E-05	6.8061E-05	3.31166E-05	4.29699E-05	0.000161631	0.49946	1.98946	0.53715	0.69697
634423.6	4253507.63	1.76624E-05	7.2726E-05	3.36542E-05	4.4243E-05	0.000168286	0.50457	2.12582	0.54587	0.71762
634443.3	4253499.87	1.78196E-05	7.79356E-05	3.41468E-05	4.55162E-05	0.000175418	0.50906	2.2781	0.55386	0.73827
634463	4253492.11	1.79537E-05	8.37942E-05	3.46043E-05	4.67763E-05	0.000183128	0.51289	2.44935	0.56128	0.75871
633802.4	4254093.61	1.31052E-05	2.4032E-05	2.3026E-05	3.18651E-05	9.20282E-05	0.37438	0.70247	0.37348	0.51685
633799.6	4254115.29	1.32497E-05	2.42585E-05	2.35019E-05	3.26567E-05	9.36668E-05	0.37851	0.70909	0.3812	0.52969
634472.5	4254152.84	6.12047E-05	0.000191394	0.000122955	0.000262266	0.000637819	1.74846	5.59454	1.99433	4.25394
634467.2	4254139.57	5.80844E-05	0.000131334	0.000122333	0.000223945	0.000583975	1.65932	5.40543	1.89808	3.63238
634453	4254145.22	5.59015E-05	0.000173293	0.000113354	0.000227147	0.000569695	1.59696	5.06545	1.83859	3.68431
634308.1	4253741.59	2.05223E-05	6.45468E-05	3.71875E-05	4.46764E-05	0.000166933	0.58627	1.88674	0.60318	0.72465
634294	4253747.24	2.02402E-05	6.18897E-05	3.63719E-05	4.38324E-05	0.000162334	0.57821	1.80907	0.58995	0.71096
634233.9	4253555.87	1.50297E-05	4.06739E-05	2.69434E-05	3.25895E-05	0.000115236	0.42936	1.18892	0.43702	0.5286
634219.8	4253561.52	1.48613E-05	3.93301E-05	2.65112E-05	3.20161E-05	0.000112719	0.42455	1.14964	0.43001	0.5193
634461.6	4254227.16	7.07723E-05	0.000188812	0.000145195	0.000378253	0.000783032	2.02178	5.51909	2.35506	6.13524
634457.6	4254245.77	7.30105E-05	0.000186781	0.000151563	0.000390338	0.000801693	2.08572	5.45972	2.45835	6.33127
634453.6	4254264.38	7.52981E-05	0.000184712	0.000158483	0.000397967	0.00081646	2.15107	5.39922	2.57059	6.45501
634449.5	4254282.99	7.76147E-05	0.000182597	0.000165646	0.000401381	0.000827239	2.21725	5.33741	2.68677	6.51039
634447.6	4254224.15	6.61275E-05	0.000176437	0.000137926	0.00034924	0.00072973	1.88909	5.15735	2.23716	5.66465
634443.6	4254242.76	6.81123E-05	0.000174696	0.000137320	0.00034324	0.00072373	1.94579	5.10646	2.33561	5.86336
634439.6	4254261.38	7.01405E-05	0.000172906	0.000150549	0.000369078	0.000762673	2.00373	5.05413	2.4419	5.98643
634435.6	4254279.99	7.22033E-05	0.000171087	0.000157106	0.000372666	0.000773063	2.06266	5.00098	2.54826	6.04462
634429.6	4254239.76	6.37773E-05	0.000163695	0.000136789	0.000334553	0.000698814	1.82195	4.78491	2.21871	5.42643
634447.1	4254166.58	5.74673E-05	0.000170687	0.000117479	0.000266287	0.00061192	1.64169	4.98929	1.9055	4.31916
634419.7	4254218.14	5.83354E-05	0.000154933	0.000124543	0.000299549	0.000637361	1.66649	4.52879	2.02009	4.85867
634415.7	4254236.75	5.99155E-05	0.000153653	0.000130011	0.000310138	0.000653717	1.71163	4.49135	2.10878	5.03042
634405.7	4254215.14	5.50323E-05	0.000145529	0.000118489	0.000277901	0.000596952	1.57213	4.2539	1.92189	4.50754
634401.7	4254233.75	5.64514E-05	0.000144438	0.000123633	0.000287819	0.000612341	1.61267	4.222	2.00532	4.66841
634397.7	4254252.36	5.7901E-05	0.000143306	0.000129057	0.000294844	0.000625107	1.65408	4.18891	2.0933	4.78235
634393.7	4254270.97	5.93838E-05	0.000142153	0.000134572	0.000299489	0.000635598	1.69644	4.15521	2.18275	4.8577
634387.7	4254230.74	5.33258E-05	0.000112133	0.000131372	0.000267062	0.000573834	1.52338	3.97417	1.90563	4.33173
634373.8	4254227.74	5.04953E-05	0.000133333	0.000117725	0.000247656	0.000538019	1.44252	3.74568	1.81218	4.01697
634409.1	4254082.89	4.27309E-05	0.00013565	8.552E-05	0.00011393	0.000377831	1.22071	3.96513	1.38713	1.84794
634332.9	4254180	4.07199E-05	0.000105827	8.67684E-05	0.000177229	0.000410544	1.16326	3.09338	1.40738	2.87464
634328.9	4254198.61	4.15414E-05	0.000105452	9.02129E-05	0.000186288	0.000423494	1.18673	3.08243	1.46325	3.02158
634324.9	4254217.22	4.23815E-05	0.000105057	9.39318E-05	0.000193017	0.000434386	1.21073	3.07086	1.52357	3.13072
634320.9	4254235.83	4.32388E-05	0.000104634	9.79731E-05	0.000198998	0.000444844	1.23522	3.05852	1.58912	3.22774
634316.9	4254254.45	4.41167E-05	0.000104192	0.000101895	0.00020357	0.000453774	1.2603	3.0456	1.65273	3.30189
634379.1	4254044.72	3.68287E-05	0.000115479	7.20144E-05	8.67166E-05	0.000311039	1.0521	3.37553	1.16807	1.40654
634265.6	4254096.84	3.02086E-05	7.76561E-05	5.85452E-05	9.24781E-05	0.000258888	0.86298	2.26993	0.9496	1.49999
634273.3	4254081.31	3.01102E-05	7.88216E-05	5.77579E-05	8.75872E-05	0.000254277	0.86017	2.304	0.93683	1.42066
634344.7	4254009.76	3.20421E-05	9.71754E-05	6.08534E-05	7.30668E-05	0.000263138	0.91536	2.84049	0.98704	1.18514
634235.1	4254158.96	3.05586E-05	7.32196E-05	6.20458E-05	0.000110583	0.000205130	0.87298	2.14025	1.00638	1.79365
	4254156.96	3.10354E-05		6.42258E-05	0.000110383	0.000276407	0.8866	2.14025	1.00638	1.88433
634231.1			7.32042E-05							
634227.1	4254196.18	3.15213E-05	7.31721E-05	6.65415E-05	0.000120531	0.000291765	0.90048	2.13886	1.0793	1.955
634223.1	4254214.8	3.20159E-05	7.31248E-05	6.86993E-05	0.000123823	0.000297663	0.91461	2.13748	1.1143	2.0084
634219.1	4254233.41	3.25185E-05	7.30595E-05	7.08085E-05	0.000126688	0.000303075	0.92897	2.13557	1.14851	2.05488
634234.3	4254050.6	2.65656E-05	6.731E-05	4.91586E-05	7.0285E-05	0.000213319	0.75891	1.96751	0.79735	1.14002
634242.3	4254034.29	2.64805E-05	6.823E-05	4.86524E-05	6.72678E-05	0.000210631	0.75648	1.9944	0.78914	1.09108
634324	4253964.85	2.8654E-05	8.5996E-05	5.29699E-05	6.33393E-05	0.000230959	0.81857	2.51371	0.85917	1.02736
634104	4254095.78	2.15165E-05	4.72766E-05	3.88577E-05	5.88923E-05	0.000166543	0.61467	1.38192	0.63027	0.95523
634111.8	4254079.97	2.14878E-05	4.77425E-05	3.84989E-05	5.73676E-05	0.000165097	0.61385	1.39554	0.62445	0.9305
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624440.6	4254264.45	2 4 4 5 0 4 5 0 5	4 004045 05	2 025025 05	5 604275 05	0.0004.500.5	0.54204	4 400 40	0.62074	0.00054
634119.6	4254064.15	2.14584E-05	4.82194E-05	3.82683E-05	5.60137E-05	0.00016396	0.61301	1.40948	0.62071	0.90854
634127.3	4254048.34	2.14269E-05	4.87031E-05	3.80266E-05	5.46105E-05	0.000162767	0.61211	1.42362	0.61679	0.88578
634135.1	4254032.53	2.13919E-05	4.9192E-05	3.77782E-05	5.31678E-05	0.00016153	0.61111	1.43791	0.61276	0.86238
634142.9	4254016.72	2.1353E-05	4.9686E-05	3.75248E-05	5.17807E-05	0.000160344	0.61	1.45235	0.60865	0.83988
634150.6	4254000.9	2.13089E-05	5.01824E-05	3.72825E-05	5.04921E-05	0.000159266	0.60874	1.46686	0.60472	0.81898
634158.4	4253985.09	2.12603E-05	5.06839E-05	3.70445E-05	4.93312E-05	0.00015832	0.60735	1.48152	0.60086	0.80015
634166.2	4253969.28	2.12053E-05	5.11882E-05	3.68324E-05	4.83318E-05	0.000157558	0.60578	1.49626	0.59742	0.78394
634188.2	4253943.16	2.14517E-05	5.3454E-05	3.72239E-05	4.78238E-05	0.000159953	0.61282	1.56249	0.60377	0.7757
634231.1	4253912.24	2.23671E-05	5.93441E-05	3.90587E-05	4.89539E-05	0.000169724	0.63897	1.73466	0.63353	0.79403
634245.4	4253901.94	2.26675E-05	6.15387E-05	3.97245E-05	4.93879E-05	0.000173319	0.64755	1.79881	0.64433	0.80107
634259.7	4253891.63	2.29632E-05	6.38678E-05	4.04317E-05	4.98737E-05	0.000177136	0.656	1.86689	0.6558	0.80895
633998.9	4254089.64	1.77195E-05	3.62638E-05	3.08799E-05	4.50044E-05	0.000129868	0.5062	1.06001	0.50087	0.72997
634007.2	4254072.92	1.77094E-05	3.65474E-05	3.06807E-05	4.42492E-05	0.000129187	0.50591	1.0683	0.49764	0.71772
634015.4	4254056.19	1.76978E-05	3.6833E-05	3.05025E-05	4.34835E-05	0.000128517	0.50558	1.07665	0.49475	0.7053
634023.6	4254039.47	1.76848E-05	3.71201E-05	3.03386E-05	4.26789E-05	0.000127822	0.50521	1.08504	0.49209	0.69225
634031.8	4254022.74	1.76705E-05	3.74105E-05	3.02054E-05	4.18688E-05	0.000127155	0.5048	1.09353	0.48993	0.67911
634040	4254006.02	1.76547E-05	3.77054E-05	3.01049E-05	4.11086E-05	0.000126574	0.50435	1.10215	0.4883	0.66678
634048.2	4253989.29	1.76358E-05	3.80024E-05	3.00439E-05	4.04286E-05	0.000126111	0.50381	1.11083	0.48731	0.65575
634056.5	4253972.57	1.76131E-05	3.82983E-05	2.99236E-05	3.96777E-05	0.000125513	0.50316	1.11948	0.48536	0.64357
634064.7	4253955.84	1.75858E-05	3.85942E-05	2.98108E-05	3.89946E-05	0.000124985	0.50238	1.12813	0.48353	0.63249
634072.9	4253939.12	1.75553E-05	3.88925E-05	2.97263E-05	3.84187E-05	0.000124593	0.50151	1.13685	0.48216	0.62315
634081.1	4253922.39	1.75203E-05	3.91891E-05	2.96456E-05	3.79058E-05	0.000124261	0.50051	1.14552	0.48085	0.61483
634089.3	4253905.67	1.74808E-05	3.94827E-05	2.95642E-05	3.74545E-05	0.000124201	0.49938	1.1541	0.47953	0.60751
634158	4253845.34	1.83821E-05	4.5047E-05	3.1214E-05	3.86912E-05	0.000133334	0.52513	1.31675	0.50629	0.62757
634173.1	4253834.44	1.86135E-05	4.65373E-05	3.16949E-05	3.91795E-05	0.000136025	0.53174	1.36031	0.51409	0.63549
634188.2	4253823.54	1.88397E-05	4.81038E-05	3.21844E-05	3.96703E-05	0.000138798	0.5382	1.4061	0.52203	0.64345
634203.3	4253812.64	1.90602E-05	4.97541E-05	3.26998E-05	4.01826E-05	0.000141697	0.5445	1.45434	0.53039	0.65176
634218.4	4253801.74	1.92741E-05	5.14968E-05	3.32331E-05	4.07134E-05	0.000144717	0.55061	1.50528	0.53904	0.66037
633901	4254069.03	1.48866E-05	2.88031E-05	2.56462E-05	3.60198E-05	0.000105356	0.42527	0.84193	0.41598	0.58424
633909	4254052.72	1.48852E-05	2.89601E-05	2.5505E-05	3.55642E-05	0.000104914	0.42523	0.84652	0.41369	0.57685
633917	4254036.41	1.48831E-05	2.91164E-05	2.53798E-05	3.5092E-05	0.000104471	0.42517	0.85109	0.41166	0.56919
633925	4254020.1	1.48803E-05	2.92728E-05	2.52726E-05	3.46074E-05	0.000104471	0.42509	0.85566	0.40992	0.56133
633933	4254003.8	1.48768E-05	2.94291E-05	2.51813E-05	3.41172E-05	0.000103604	0.42499	0.86023	0.40844	0.55338
633941	4253987.49	1.48719E-05	2.95851E-05	2.51043E-05	3.36289E-05	0.00010319	0.42485	0.86479	0.40719	0.54546
633949	4253971.18	1.48663E-05	2.97435E-05	2.50728E-05	3.31955E-05	0.000102878	0.42469	0.86942	0.40668	0.53843
633957	4253954.88	1.48582E-05	2.99023E-05	2.50549E-05	3.27868E-05	0.000102602	0.42446	0.87406	0.40639	0.5318
633965.1	4253938.57	1.48473E-05	3.00586E-05	2.5005E-05	3.23416E-05	0.000102253	0.42415	0.87863	0.40558	0.52458
633973.1	4253922.26	1.4834E-05	3.02143E-05	2.49575E-05	3.19224E-05	0.000101928	0.42377	0.88318	0.40481	0.51778
633981.1	4253905.96	1.48179E-05	3.03692E-05	2.49125E-05	3.15334E-05	0.000101633	0.42331	0.88771	0.40408	0.51147
633989.1	4253889.65	1.4799E-05	3.05225E-05	2.48669E-05	3.11764E-05	0.000101365	0.42277	0.89219	0.40334	0.50568
										0.50044
633997.1	4253873.34	1.47773E-05	3.06741E-05	2.48207E-05	3.08534E-05	0.000101125	0.42215	0.89662	0.40259	
634005.1	4253857.04	1.47525E-05	3.08222E-05	2.47726E-05	3.05636E-05	0.000100911	0.42144	0.90095	0.40181	0.49574
634013.1	4253840.73	1.47248E-05	3.09669E-05	2.4722E-05	3.03077E-05	0.000100721	0.42065	0.90518	0.40099	0.49159
634094.8	4253771.29	1.55649E-05	3.54899E-05	2.61819E-05	3.17757E-05	0.000109012	0.44465	1.03739	0.42467	0.5154
634109.5	4253760.66	1.57323E-05	3.64793E-05	2.6513E-05	3.21844E-05	0.000110909	0.44943	1.06631	0.43004	0.52203
634124.3	4253750.03	1.58961E-05	3.75135E-05	2.68663E-05	3.26252E-05	0.000112901	0.45411	1.09654	0.43577	0.52918
634242.2	4253665.01	1.70688E-05	4.77401E-05	3.01992E-05	3.65975E-05	0.000131606	0.48761	1.39547	0.48983	0.59361
633893	4254085.33	1.48876E-05	2.86457E-05	2.58065E-05	3.64619E-05	0.000105802	0.4253	0.83733	0.41858	0.59141
633885	4254122.56	1.51274E-05	2.88896E-05	2.6645E-05	3.8079E-05	0.000108741	0.43215	0.84446	0.43218	0.61764
633880.9	4254141.17	1.52506E-05	2.90032E-05	2.71092E-05	3.88602E-05	0.000100741	0.43567	0.84778	0.43971	0.63031
633876.9	4254159.78	1.53763E-05	2.91123E-05	2.75987E-05	3.96234E-05	0.000111711	0.43926	0.85097	0.44765	0.64269
633803.5	4254047.39	1.27201E-05	2.33119E-05	2.19883E-05	2.99773E-05	8.79976E-05	0.36338	0.68142	0.35665	0.48623
633811.8	4254030.47	1.27222E-05	2.34009E-05	2.18638E-05	2.96376E-05	8.76244E-05	0.36344	0.68402	0.35463	0.48072
633820.1	4254013.56	1.27243E-05	2.3488E-05	2.17553E-05	2.92886E-05	8.7257E-05	0.3635	0.68659	0.35287	0.47506
633828.4	4253996.65	1.2726E-05	2.35757E-05	2.16622E-05	2.89335E-05	8.68974E-05	0.36355	0.68913	0.35136	0.4693
633836.7	4253979.74	1.27274E-05	2.36619E-05	2.15864E-05	2.85784E-05	8.65541E-05	0.36359	0.69165	0.35013	0.46354
633845	4253962.83	1.27281E-05	2.37481E-05	2.15358E-05	2.82411E-05	8.62532E-05	0.36361	0.69417	0.34931	0.45807
633853.4	4253945.92	1.27281E-05	2.3834E-05	2.15019E-05	2.79156E-05	8.59796E-05	0.36361	0.69668	0.34876	0.45279
633861.7	4253929.01	1.2726E-05	2.39185E-05	2.14748E-05	2.75938E-05	8.57131E-05	0.36355	0.69915	0.34832	0.44757
633870	4253912.1 4253895.19	1.27225E-05 1.27173E-05	2.40026E-05 2.40861E-05	2.1444E-05 2.14156E-05	2.7267E-05	8.54362E-05	0.36345	0.70161	0.34782	0.44227
633878.3					2.6952E-05	8.5171E-05	0.3633	0.70405	0.34736	0.43716
633886.6		1.27099E-05	2.41689E-05	2.13909E-05	2.66554E-05	8.49252E-05	0.36309	0.70647	0.34696	0.43235
633894.9	4253861.37	1.27005E-05	2.425E-05	2.13675E-05	2.63792E-05	8.46972E-05	0.36282	0.70884	0.34658	0.42787
633903.2	4253844.46	1.26889E-05	2.433E-05	2.13447E-05	2.61271E-05	8.44907E-05	0.36249	0.71118	0.34621	0.42378
633911.5	4253827.54	1.26753E-05	2.4408E-05	2.13206E-05	2.58983E-05	8.43023E-05	0.3621	0.71346	0.34582	0.42007
633919.8	4253810.63	1.26592E-05	2.44843E-05	2.12954E-05	2.56955E-05	8.41344E-05	0.36164	0.71569	0.34541	0.41678
633928.1	4253793.72	1.26403E-05	2.45558E-05	2.12424E-05	2.54828E-05	8.39213E-05	0.3611	0.71778	0.34455	0.41333
633936.4	4253776.81	1.26189E-05	2.46246E-05	2.11862E-05	2.52948E-05	8.37245E-05	0.36049	0.71979	0.34364	0.41028
633960	4253748.88	1.2739E-05	2.52691E-05	2.13897E-05	2.54255E-05	8.48233E-05	0.36392	0.73863	0.34694	0.4124
				2.16308E-05						
633975.3	4253737.86	1.28818E-05	2.58668E-05		2.57085E-05	8.60878E-05	0.368	0.7561	0.35085	0.41699
634036.4	4253693.77	1.34342E-05	2.84832E-05	2.26277E-05	2.70118E-05	9.15569E-05	0.38378	0.83258	0.36702	0.43813
634067	4253671.73	1.3695E-05	2.99433E-05	2.3185E-05	2.77713E-05	9.45947E-05	0.39123	0.87526	0.37606	0.45045
634082.3	4253660.71	1.38214E-05	3.07175E-05	2.34976E-05	2.81937E-05	9.62301E-05	0.39484	0.89789	0.38113	0.4573
634189.2	4253583.56	1.46429E-05	3.71064E-05	2.58096E-05	3.11185E-05	0.000108677	0.41831	1.08464	0.41863	0.50474
634204.5	4253572.54	1.47532E-05	3.81919E-05	2.61604E-05	3.15587E-05	0.000110664	0.42146	1.11637	0.42432	0.51188
633795.2	4254064.3	1.27176E-05	2.32216E-05	2.21301E-05	3.03053E-05	8.83746E-05	0.36331	0.67878	0.35895	0.49155
633791.2	4254082.91	1.28066E-05	2.33485E-05	2.2447E-05	3.08897E-05	8.94918E-05	0.36585	0.68249	0.36409	0.50103
633787.2	4254101.52	1.28965E-05	2.34713E-05	2.27874E-05	3.14674E-05	9.06226E-05	0.36842	0.68608	0.36961	0.5104
633783.2	4254101.32	1.29882E-05	2.35911E-05	2.27874E-03 2.31499E-05	3.20395E-05	9.17687E-05	0.37104	0.68958	0.37549	0.5104
633779.2	4254138.75	1.30813E-05	2.37064E-05	2.35352E-05	3.26037E-05	9.29266E-05	0.3737	0.69295	0.38174	0.52883
634486.2	4254300.58	9.87349E-05	0.000219636	0.000195973	0.000494937	0.001009281	2.8206	6.42007	3.17867	8.02786
634531.9	4254301.16	0.000132617	0.000282968	0.000231536	0.00064512	0.001292241	3.78851	8.27132	3.75551	10.46382
634486	4254314.86	0.000102899	0.000220368	0.000203071	0.000500501	0.00102684	2.93956	6.44147	3.29381	8.11811
634531.8	4254315.45	0.000139074	0.000283837	0.000243963	0.000648527	0.001315401	3.97298	8.29671	3.95707	10.51908
634600.4	4254316.33	0.000264332	0.00046554	0.000291477	0.000878201	0.001899551	7.55129	13.60799	4.72775	14.24438
634446.5	4254320.78	8.44627E-05	0.000182384	0.000179222	0.000410963	0.000857033	2.41288	5.3312	2.90697	6.66581
634485.8	4254329.15	0.000107184	0.000102301	0.00020844	0.000505712	0.001042355	3.06197	6.4605	3.38089	8.20262
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C24E24 C	425 4220 72	0.000145654	0.000304554	0.000353000	0.000050376	0.001241201	4.1C00F	0.21767	4 10100	10 6772
634531.6	4254329.73	0.000145654	0.000284554	0.000252898	0.000658276	0.001341381	4.16095	8.31767	4.10199	10.6772
634433.5	4254328.79	8.08663E-05	0.000172423	0.000172873	0.000387605	0.000813768	2.31014	5.04002	2.804	6.28694
634485.7	4254343.43	0.000111557	0.000221566	0.000211224	0.000510548	0.001054896	3.1869	6.47651	3.42605	8.28107
634531.4	4254344.02	0.000152341	0.000285093	0.00025742	0.000663495	0.00135835	4.35199	8.33344	4.17534	10.76186
634444.3	4254348.46	8.97282E-05	0.000181979	0.000181218	0.000413026	0.000865951	2.5633	5.31935	2.93935	6.69926
634403	4254310.67	6.7416E-05	0.000150253	0.000151604	0.000329604	0.000698878	1.9259	4.39199	2.45901	5.34617
634398.3	4254290.82	6.32095E-05	0.000146203	0.00014382	0.000315656	0.000668889	1.80573	4.2736	2.33275	5.11993
634485.5	4254357.72	0.000116001	0.000221997	0.000210795	0.000514421	0.001063214	3.31384	6.48909	3.41909	8.34389
634531.2	4254358.3	0.000159143	0.000285465	0.000258575	0.000665967	0.00136915	4.54631	8.34431	4.19407	10.80195
634429.5	4254355.57	8.47438E-05	0.000170687	0.000171531	0.000385083	0.000812045	2.42091	4.98927	2.78223	6.24603
634392.3	4254321.56	6.60526E-05	0.000144307	0.00014788	0.000315944	0.000674183	1.88695	4.21818	2.39861	5.12459
634388.1	4254303.7	6.24093E-05	0.000140876	0.000142407	0.000304714	0.000650405	1.78287	4.11788	2.30983	4.94244
634383.9	4254285.83	5.90568E-05	0.000137447	0.000112107	0.000391721	0.000624461	1.6871	4.01764	2.19876	4.7427
634485.3	4254372	0.000120512	0.000222334	0.000206377	0.000516919	0.001066142	3.4427	6.49894	3.34743	8.38441
634531	4254372.59	0.000166064	0.000285636	0.000254347	0.000670435	0.001376482	4.74402	8.34931	4.12549	10.87442
634485.1	4254386.29	0.000125081	0.000222563	0.000196747	0.000519638	0.00106403	3.57324	6.50565	3.19123	8.42851
634530.8	4254386.87	0.000173089	0.000285598	0.000242139	0.000672966	0.001373792	4.9447	8.34819	3.92748	10.91548
634423.1	4254417.16	9.49145E-05	0.000168225	0.000142972	0.000380566	0.000786677	2.71146	4.9173	2.319	6.17276
634384.7	4254398.33	7.57293E-05	0.000143354	0.000138043	0.000316336	0.000673462	2.16339	4.19032	2.23905	5.13095
634365.5	4254388.92	6.82897E-05	0.00013271	0.000133073	0.000289531	0.000623604	1.95086	3.8792	2.15844	4.69618
634341.3	4254358.66	5.82951E-05	0.000119898	0.000125971	0.000256271	0.000560434	1.66534	3.50468	2.04324	4.1567
634336.4	4254337.82	5.49466E-05	0.000116745	0.000123333	0.000247128	0.000542152	1.56968	3.41252	2.00046	4.0084
634331.5	4254316.97	5.1877E-05	0.000113713	0.0001191	0.000237063	0.000521636	1.48199	3.32047	1.9318	3.84515
634326.7	4254296.13	4.90696E-05	0.000110463	0.000114355	0.000226838	0.000500725	1.40179	3.2289	1.85483	3.6793
634321.8	4254275.29	4.64887E-05	0.000107325	0.000108572	0.000215686	0.000478071	1.32806	3.13716	1.76103	3.49841
634461.6	4254435.99	0.00012252	0.000199393	0.000136627	0.000463731	0.000922272	3.50009	5.82838	2.21609	7.52169
634484.5	4254436.28	0.000141483	0.000222253	0.00013868	0.000523045	0.00102546	4.04179	6.49658	2.24938	8.48376
634530.2	4254436.87	0.000198649	0.000283612	0.000145075	0.000671127	0.001298463	5.67487	8.29014	2.35311	10.88565
634553.1	4254437.16	0.000243609	0.000326421	0.000151071	0.000760717	0.001481817	6.95926	9.54146	2.45036	12.3388
634575.9	4254437.45	0.000307424	0.000382513	0.000161638	0.000854009	0.001705584	8.7823	11.18108	2.62176	13.85199
634422.5		0.000105445	0.000168291	0.000126786	0.000383342	0.000783865	3.0123	4.91925	2.05646	6.21779
634384	4254448.33	8.38589E-05	0.000100231	0.000125774	0.000318657	0.000763663	2.39563	4.21915	2.04005	5.1686
634364.8	4254438.91	7.54416E-05	0.000133991	0.000123148	0.000291578	0.000624159	2.15517	3.91662	1.99746	4.72939
634326.4	4254420.08	6.20263E-05	0.000115918	0.000115682	0.000246146	0.000539773	1.77193	3.38836	1.87636	3.99248
634302.2	4254389.83	5.35709E-05	0.000105365	0.000110714	0.000220125	0.000489774	1.53038	3.07989	1.79577	3.57041
634297.3	4254368.98	5.07099E-05	0.000102711	0.000109728	0.000213055	0.000476204	1.44865	3.00229	1.77978	3.45575
634292.4	4254348.14	4.80614E-05	0.000100033	0.000107378	0.000205074	0.000460547	1.37299	2.92402	1.74167	3.32629
634287.6	4254327.3	4.56233E-05	9.73663E-05	0.000104254	0.000197088	0.000444331	1.30334	2.84607	1.69099	3.19676
634282.7	4254306.46	4.33704E-05	9.47019E-05	0.000100323	0.000188588	0.000426984	1.23898	2.76819	1.62724	3.05889
634460.9	4254485.98	0.000136551	0.000197699	0.000121836	0.000460546	0.000916632	3.90092	5.77886	1.97617	7.47003
634483.8	4254486.28	0.000150551	0.000137033	0.000121030	0.000515896	0.001010965	4.52795	6.41484	1.89954	8.36781
634529.6	4254486.86	0.000225237	0.000277177	0.000108292	0.000645521	0.001256226	6.43442	8.10203	1.75649	10.47032
634421.9	4254517.15	0.000116242	0.000166968	0.000141121	0.000382249	0.000806581	3.32074	4.88056	2.28898	6.20007
634364.2	4254488.91	8.28819E-05	0.000134485	0.000126375	0.000292835	0.000636577	2.36772	3.93108	2.0498	4.74977
634325.7	4254470.08	6.79257E-05	0.000117021	0.000116347	0.000246955	0.000548249	1.94046	3.42059	1.88715	4.0056
634306.5	4254460.66	6.18985E-05	0.000109296	0.000111302	0.000227772	0.000510269	1.76828	3.19479	1.80532	3.69445
634287.3	4254451.25	5.66492E-05	0.000102169	0.000106547	0.000210661	0.000476026	1.61832	2.98646	1.72819	3.41691
634263.1	4254420.99	4.94137E-05	9.33533E-05	9.94941E-05	0.000189949	0.00043221	1.41162	2.72877	1.61379	3.08096
634243.6	4254337.62	4.05364E-05	8.42475E-05	9.14349E-05	0.000164934	0.000381153	1.15802	2.4626	1.48307	2.67522
634238.7	4254316.78	3.8692E-05	8.19612E-05	8.77623E-05	0.000157516	0.000365932	1.10533	2.39577	1.4235	2.55491
634233.8	4254295.94	3.69817E-05	7.96991E-05	8.39213E-05	0.000150417	0.000351019	1.05647	2.32965	1.3612	2.43976
634228.9	4254275.09	3.53882E-05	7.74566E-05	7.97271E-05	0.000142894	0.000335466	1.01095	2.2641	1.29317	2.31773
634224	4254254.25	3.39033E-05	7.52415E-05	7.52493E-05	0.000134783	0.000319177	0.96853	2.19935	1.22054	2.18617
634460.3	4254535.98	0.000151322	0.000193993	0.000152983	0.000453978	0.000952276	4.32288	5.67053	2.48137	7.3635
634483.2	4254536.27	0.00017648	0.00021406	0.000153938	0.000501801	0.001046278	5.04157	6.25708	2.49686	8.13919
634506	4254536.57	0.000209122	0.000237617	0.000156034	0.000554538	0.001157312	5.97407	6.94567	2.53087	8.99459
634528.9	4254536.86	0.000252242	0.00026564	0.000161524	0.000608255	0.001287661	7.20591	7.7648	2.61991	9.86587
634643.3	4254538.33	0.001020908	0.000506014	0.000369952	0.000714344	0.002611219	29.16469	14.79107	6.00061	11.58663
634421.2	4254567.15	0.00012741	0.000164109	0.000174552	0.000377233	0.000843304	3.63978	4.797	2.83122	6.11871
634363.5	4254538.9	9.0464E-05	0.000134091	0.000174332	0.000377233	0.000663576	2.58432	3.91954	2.35907	4.76184
634325.1	4254520.07	7.40309E-05	0.000137031	0.000113112	0.00024789	0.000567986	2.11487	3.43419	2.08553	4.02077
									1.96109	3.70627
634305.8	4254510.66		0.000110054	0.000120906	0.000228501	0.000526851	1.92517	3.21693		
634286.6	4254501.25	6.1587E-05	0.000103154	0.000114148	0.000211423	0.000490312	1.75938	3.01525	1.85148	3.42927
634267.4	4254491.83	5.64857E-05	9.67337E-05	0.000107781	0.000196125	0.000457125	1.61365	2.82758	1.7482	3.18114
634224	4254452.16	4.57336E-05	8.32926E-05	9.2552E-05	0.000165182	0.00038676	1.30649	2.43469	1.50119	2.67924
634219.1	4254431.32	4.35906E-05	8.13628E-05	8.9663E-05	0.000160592	0.000375208	1.24527	2.37828	1.45433	2.60479
634214.3	4254410.48	4.1582E-05	7.94083E-05	8.71118E-05	0.000155434	0.000363537	1.18789	2.32115	1.41295	2.52114
634209.4	4254389.63	3.97037E-05	7.74399E-05	8.49084E-05	0.000149981	0.000352033	1.13423	2.26361	1.37721	2.43268
634204.5	4254368.79	3.7952E-05	7.54707E-05	8.2687E-05	0.000144341	0.00034045	1.08419	2.20605	1.34118	2.3412
634199.6	4254347.95	3.63183E-05	7.3509E-05	8.01833E-05	0.000138754	0.000328764	1.03752	2.14871	1.30057	2.25058
634194.7	4254327.1	3.47893E-05	7.15532E-05	7.7081E-05	0.000132767	0.00031619	0.99384	2.09154	1.25025	2.15347
634189.8	4254306.26	3.47893E-05 3.33608E-05	6.96176E-05	7.7081L-03 7.35884E-05	0.000132707	0.00031019	0.95303	2.03134	1.1936	2.0543
634184.9	4254285.42	3.2025E-05	6.77093E-05	6.99891E-05	0.000120344	0.000290068	0.91487	1.97918	1.13522	1.95198
634459.7	4254585.98	0.000166673	0.000188119	0.000202086	0.000438872	0.00099575	4.76142	5.49883	3.27782	7.11848
634482.5	4254586.27	0.000195006	0.000206053	0.000213379	0.000480236	0.001094674	5.57082	6.02304	3.461	7.7894
634505.4	4254586.56	0.000231425	0.000226662	0.000227552	0.000522233	0.001207872	6.61121	6.62545	3.69089	8.4706
634528.3	4254586.86	0.000279031	0.000250494	0.00024788	0.000565053	0.001342458	7.97118	7.32207	4.0206	9.16514
634642.6	4254588.32	0.001157503	0.000394944	0.000470448	0.000616284	0.002639178	33.06683	11.54442	7.63064	9.9961
634417.4	4254665.88	0.000148435	0.000153337	0.000250585	0.000350498	0.000902855	4.2404	4.48213	4.06448	5.68506
634376.3	4254645.8	0.000114979	0.000135947	0.000209214	0.000303592	0.000763733	3.28466	3.9738	3.39345	4.92425
634355.8	4254635.76	0.000111373	0.000133317	0.000192828	0.000383332	0.000703832	2.92455	3.7391	3.12766	4.55315
634314.8	4254615.67	8.27097E-05	0.000127318	0.000152828	0.000230713	0.000703832	2.3628	3.30658	2.66402	3.87756
634294.3	4254605.63	7.49106E-05	0.000106332	0.000151541	0.000220567	0.00055335	2.14	3.10815	2.45799	3.57758
634273.8	4254595.59	6.81235E-05	9.99355E-05	0.000139857	0.000203671	0.000511587	1.94611	2.92117	2.26847	3.30354
634232.8	4254575.51	5.69352E-05	8.826E-05	0.000119334	0.000174811	0.00043934	1.62649	2.57989	1.9356	2.83542
634212.3	4254565.46	5.23002E-05	8.29498E-05	0.000110373	0.000162512	0.000408135	1.49408	2.42467	1.79025	2.63594
634191.8	4254555.42	4.81896E-05	7.79711E-05	0.000102219	0.000151479	0.000379859	1.37665	2.27914	1.65799	2.45698

C24171 2	425454520	4 452265 05	7 220025 05	0.404705.05	0.00014133	0.000252070	1 27221	2 1 4 2 0 4	1 52704	2 2022
634171.2	4254545.38	4.45336E-05	7.33082E-05	9.48178E-05	0.00014132	0.000353979	1.27221	2.14284	1.53794	2.2922
634129.9	4254446.41	3.44613E-05	6.27463E-05	7.25267E-05	0.000116865	0.0002866	0.98447	1.83411	1.17638	1.89555
634124.6	4254424.18	3.30051E-05	6.11747E-05	6.95766E-05	0.000112477	0.000276234	0.94287	1.78817	1.12853	1.82438
634119.4	4254401.94	3.16396E-05	5.96075E-05	6.67918E-05	0.000107951	0.00026599	0.90386	1.74236	1.08336	1.75096
634114.2	4254379.71	3.03598E-05	5.80533E-05	6.4203E-05	0.000103374	0.00025599	0.8673	1.69693	1.04137	1.67672
634109	4254357.48	2.91637E-05	5.65254E-05	6.17184E-05	9.90354E-05	0.000246443	0.83313	1.65227	1.00107	1.60635
634103.8	4254335.25	2.804E-05	5.50178E-05	5.91605E-05	9.46655E-05	0.000236884	0.80103	1.6082	0.95958	1.53547
634098.6	4254313.02	2.69836E-05	5.35358E-05	5.63818E-05	9.01907E-05	0.000227092	0.77085	1.56488	0.91451	1.46289
634093.3	4254290.78	2.59905E-05	5.20869E-05	5.35747E-05	8.57567E-05	0.000217409	0.74248	1.52253	0.86898	1.39097
634088.1	4254268.55	2.50565E-05	5.06744E-05	5.08602E-05	8.13806E-05	0.000207972	0.7158	1.48124	0.82495	1.31999
634082.9	4254246.32	2.41783E-05	4.93011E-05	4.82467E-05	7.71284E-05	0.000198855	0.69071	1.4411	0.78256	1.25102
634458.4	4254685.97	0.000198063	0.000172505	0.000307307	0.000392349	0.001070224	5.65815	5.04243	4.9845	6.36388
634504.1	4254686.55	0.000274576	0.00020004	0.000368685	0.00044244	0.001285741	7.84392	5.84729	5.98005	7.17636
634527	4254686.85	0.000330103	0.000214557	0.000414113	0.00046165	0.001420423	9.43017	6.27161	6.7169	7.48795
634416.6	4254766.14	0.000172944	0.000141737	0.000317596	0.000317288	0.000949566	4.94056	4.14305	5.1514	5.1464
634376.1	4254746.32	0.000172544	0.000141737	0.000317330	0.000317288	0.000812014	3.83013	3.75659	4.26564	4.64601
	4254746.32									
634355.9		0.000119154	0.000122143	0.000239777	0.000269567	0.000750642	3.40391	3.57032	3.88918	4.37237
634315.4	4254716.59	9.58575E-05	0.000110109	0.000201713	0.000235615	0.000643294	2.7384	3.21856	3.27177	3.82166
634295.2	4254706.68	8.67206E-05	0.000104459	0.000186409	0.000219599	0.000597188	2.47738	3.0534	3.02354	3.56189
634274.9	4254696.77	7.8836E-05	9.90375E-05	0.000172441	0.000204649	0.000554963	2.25214	2.89492	2.79698	3.3194
634254.7	4254686.86	7.19656E-05	9.38402E-05	0.000159477	0.000190727	0.00051601	2.05587	2.743	2.58671	3.09358
634214.2	4254667.04	6.05792E-05	8.4114E-05	0.000136241	0.000166094	0.000447028	1.73059	2.4587	2.20982	2.69403
634194	4254657.13	5.58182E-05	7.95845E-05	0.000125921	0.000155262	0.000416587	1.59458	2.3263	2.04244	2.51835
634173.7	4254647.22	5.15616E-05	7.52764E-05	0.000116421	0.000145462	0.000388721	1.47298	2.20037	1.88834	2.35939
634113	4254617.49	4.12239E-05	6.36601E-05	9.25107E-05	0.000120891	0.000318285	1.17766	1.86082	1.50052	1.96084
634092.8	4254607.58	3.84358E-05	6.0213E-05	8.59509E-05	0.000113907	0.000298506	1.09801	1.76006	1.39412	1.84756
634067.4	4254575.73	3.44788E-05	5.58183E-05	7.60612E-05	0.000104799	0.000271157	0.98497	1.6316	1.23371	1.69983
634062.2	4254553.79	3.31094E-05	5.46514E-05	7.2359E-05	0.000102051	0.000262171	0.94585	1.59749	1.17366	1.65526
634031.3	4254422.15	2.62824E-05	4.76539E-05	5.50507E-05	8.27055E-05	0.000211693	0.75082	1.39295	0.89292	1.34148
										1.28725
634026.2	4254400.22	2.53551E-05	4.65249E-05	5.2735E-05	7.93621E-05	0.000203977	0.72433	1.35995	0.85536	
634021	4254378.28	2.44786E-05	4.54145E-05	5.05427E-05	7.606E-05	0.000196496	0.69929	1.32749	0.8198	1.23369
634015.9	4254356.34	2.36504E-05	4.43242E-05	4.83787E-05	7.28417E-05	0.000189195	0.67563	1.29562	0.7847	1.18149
634010.7	4254334.4	2.28684E-05	4.32582E-05	4.63441E-05	6.98066E-05	0.000182277	0.65329	1.26446	0.7517	1.13226
634005.6	4254312.46	2.21284E-05	4.22154E-05	4.43787E-05	6.69003E-05	0.000175623	0.63215	1.23398	0.71982	1.08512
634000.5	4254290.52	2.14262E-05	4.11922E-05	4.237E-05	6.39324E-05	0.000168921	0.61209	1.20407	0.68724	1.03698
633995.3	4254268.58	2.076E-05	4.01905E-05	4.04119E-05	6.10618E-05	0.000162424	0.59306	1.17479	0.65548	0.99042
633990.2	4254246.64	2.01282E-05	3.92107E-05	3.85747E-05	5.82986E-05	0.000156212	0.57501	1.14615	0.62568	0.9456
633985	4254224.7	1.95279E-05	3.82507E-05	3.68232E-05	5.56413E-05	0.000150243	0.55786	1.11809	0.59727	0.9025
634457.1	4254785.96	0.000228658	0.000154175	0.000383172	0.000342339	0.001108345	6.53216	4.50663	6.21504	5.55273
634502.8	4254786.55	0.000315881	0.000169906	0.000462191	0.000369847	0.001317825	9.02389	4.96646	7.49671	5.9989
634415.7	4254866.3	0.000313881	0.000103300	0.000343924	0.000303047	0.001317823	5.60826	3.74337	5.57843	4.52018
	4254856.48	0.000130317		0.000343324	0.000270149				5.1712	4.3818
634395.6			0.000124024			0.000886013	4.94283	3.62528		
634355.5	4254836.83	0.000136342	0.000114735	0.000270905	0.00024939	0.000771372	3.89493	3.35377	4.39407	4.04509
634315.4	4254817.19	0.000109495	0.000105115	0.000227878	0.000224953	0.00066744	3.12799	3.07256	3.69617	3.64872
634295.3	4254807.36	9.88694E-05	0.00010046	0.000210652	0.000212763	0.000622744	2.82444	2.93651	3.41676	3.45101
634275.2	4254797.54	8.97212E-05	9.59513E-05	0.000195523	0.000200682	0.000581878	2.5631	2.80471	3.17137	3.25506
634255.2	4254787.71	8.17817E-05	9.15778E-05	0.000181432	0.00018875	0.000543541	2.33629	2.67687	2.94282	3.06151
634215.1	4254768.07	6.87746E-05	8.32656E-05	0.000156692	0.000166611	0.000475343	1.96471	2.4339	2.54153	2.70243
634195	4254758.24	6.33866E-05	7.93228E-05	0.000145816	0.00015666	0.000445186	1.81079	2.31865	2.36513	2.54102
634174.9	4254748.42	5.85853E-05	7.55234E-05	0.00013573	0.00014751	0.000417348	1.67363	2.20759	2.20153	2.3926
634154.9	4254738.6	5.42762E-05	7.18635E-05	0.000126299	0.000139009	0.000391447	1.55053	2.10061	2.04856	2.25472
634114.7	4254718.95	4.68842E-05	6.49803E-05	0.000109333	0.000124012	0.00034521	1.33936	1.89941	1.77338	2.01147
634094.7	4254709.12	4.37005E-05	6.17576E-05	0.000101751	0.000117391	0.0003246	1.24841	1.80521	1.6504	1.90407
634074.6	4254699.3	4.08098E-05	5.86862E-05	9.4753E-05	0.000117331	0.000305512	1.16583	1.71543	1.53689	1.80468
634054.5	4254689.48	3.81785E-05	5.57646E-05	8.83153E-05	0.000111203	0.000303312	1.09066	1.63003	1.43247	1.71233
634014.4	4254669.83	3.35928E-05	5.03767E-05	7.70286E-05	9.52093E-05	0.000256207	0.95966	1.47254	1.2494	1.54429
633989.2	4254638.26	3.04519E-05	4.70203E-05	6.89373E-05	8.84595E-05	0.000234869	0.86993	1.37443	1.11816	1.43481
633984.1	4254616.51	2.93569E-05	4.61257E-05	6.58991E-05	8.63529E-05	0.000227735	0.83865	1.34828	1.06888	1.40064
633979	4254594.76	2.83102E-05	4.5229E-05	6.30131E-05	8.41241E-05	0.000220677	0.80875	1.32207	1.02207	1.36449
633973.9	4254573.01	2.73105E-05	4.43313E-05	6.02813E-05	8.17715E-05	0.000213695	0.78019	1.29583	0.97776	1.32633
633968.8	4254551.26	2.63587E-05	4.34378E-05	5.76999E-05	7.93245E-05	0.000206821	0.753	1.26971	0.93589	1.28664
633963.7	4254529.51	2.54528E-05	4.25493E-05	5.52634E-05	7.679E-05	0.000200055	0.72712	1.24374	0.89637	1.24553
633933.1	4254399.02	2.09011E-05	3.74403E-05	4.30914E-05	6.14465E-05	0.000162879	0.59709	1.0944	0.69894	0.99666
633928	4254377.27	2.02693E-05	3.66295E-05	4.13546E-05	5.90723E-05	0.000157326	0.57904	1.0707	0.67077	0.95815
633922.9	4254355.52	1.96686E-05	3.58317E-05	3.9682E-05	5.67733E-05	0.000151956	0.56188	1.04738	0.64364	0.92086
633917.8	4254333.77	1.90966E-05	3.50448E-05	3.80581E-05	5.4563E-05	0.000146763	0.54554	1.02438	0.6173	0.88501
633912.7	4254312.02	1.85519E-05	3.42696E-05	3.6505E-05	5.24292E-05	0.000141756	0.52998	1.00172	0.59211	0.8504
633907.6	4254290.28	1.80328E-05	3.35047E-05	3.50032E-05	5.03836E-05	0.000136924	0.51515	0.97936	0.56775	0.81722
633902.5	4254268.53	1.75382E-05	3.27507E-05	3.3595E-05	4.84379E-05	0.000130324	0.50102	0.95732	0.54491	0.78566
633897.4	4254246.78	1.70653E-05	3.20049E-05	3.22282E-05	4.65402E-05	0.000132322	0.48751	0.93752	0.52274	0.75488
633892.3	4254225.03	1.66137E-05	3.1269E-05	3.09427E-05	4.47048E-05	0.00012353	0.47461	0.91401	0.50189	0.72511
633887.2	4254203.28	1.61824E-05	3.0542E-05	2.97504E-05	4.29496E-05	0.000115424	0.46229	0.89276	0.48255	0.69664
633882	4254181.53	1.57701E-05	2.98226E-05	2.86351E-05	4.12603E-05	0.000115488	0.45051	0.87173	0.46446	0.66924
634455.8	4254885.95	0.000257015	0.000133819	0.000394349	0.000289915	0.001075098	7.34224	3.91161	6.39633	4.70241
634501.6	4254886.54	0.000354463	0.000141492	0.000449803	0.000304958	0.001250715	10.12608	4.13588	7.29578	4.9464
634434.6	4254976.18	0.000247511	0.000114123	0.000350257	0.000244293	0.000956184	7.07073	3.33587	5.68116	3.96242
634394.7	4254956.65	0.000192748	0.000111259	0.000316068	0.000236872	0.000856947	5.50631	3.25217	5.12661	3.84205
634354.8	4254937.13	0.000152956	0.000106006	0.000279385	0.000225163	0.00076351	4.36955	3.09861	4.53161	3.65214
634295	4254907.84	0.000111309	9.54884E-05	0.000225613	0.000201197	0.000633607	3.17981	2.79118	3.65943	3.2634
634275.1	4254898.08	0.000100904	9.17882E-05	0.000209611	0.000192162	0.000594465	2.88257	2.68302	3.39988	3.11686
634255.1	4254888.31	9.18418E-05	8.81259E-05	0.000194645	0.000132132	0.000557437	2.62368	2.57597	3.15714	2.9654
634215.3	4254868.79	7.70151E-05	8.10511E-05	0.0001576	0.000164619	0.000492261	2.20012	2.36917	2.75052	2.67011
634195.3	4254859.02	7.70151E-05 7.09151E-05	7.76533E-05	0.000159370	0.000154613	0.000492201	2.02586	2.26985	2.56898	2.52492
634195.3	4254859.02			0.000138384	0.000133667	0.000485836		2.20985	2.40852	2.32492
		6.55191E-05	7.43602E-05				1.87171			
634155.4	4254839.5	6.07059E-05	7.11632E-05	0.000139147	0.000139582	0.000410599	1.73421	2.08014	2.25696	2.26402
634115.6	4254819.97	5.24868E-05	6.50621E-05	0.00012217	0.000125292	0.000365011	1.49941	1.9018	1.9816	2.03223
634095.6	4254810.21	4.89551E-05	6.21634E-05	0.000114614	0.000118989	0.000344721	1.39852	1.81707	1.85903	1.92999

634075.7	4254800.45	4.57399E-05	5.9366E-05	0.000107499	0.000113145	0.000325749	1.30667	1.7353	1.74363	1.8352
634055.7	4254790.68	4.2804E-05	5.66729E-05	0.000100811	0.000107715	0.000308003	1.2228	1.65658	1.63515	1.74714
634015.9	4254771.16	3.76566E-05	5.16073E-05	8.86661E-05	9.79386E-05	0.000275869	1.07575	1.50851	1.43816	1.58856
633995.9	4254761.39	3.53963E-05	4.92399E-05	8.31932E-05	9.35064E-05	0.000261336	1.01118	1.43931	1.34939	1.51667
633976	4254751.63	3.33195E-05	4.69851E-05	7.81087E-05	8.93221E-05	0.000247735	0.95185	1.3734	1.26692	1.4488
633956	4254741.87	3.14085E-05	4.48438E-05	7.34016E-05	8.53479E-05	0.000235002	0.89726	1.31081	1.19057	1.38434
633911.1	4254700.73	2.71047E-05	4.02117E-05	6.24989E-05	7.63991E-05	0.000206214	0.77431	1.17541	1.01373	1.23919
633906	4254679.11	2.6217E-05	3.95199E-05	6.00384E-05	7.47789E-05	0.000200554	0.74895	1.15519	0.97382	1.21291
633900.9	4254657.5	2.53632E-05	3.88272E-05	5.76734E-05	7.30625E-05	0.000194926	0.72456	1.13494	0.93546	1.18507
633895.9	4254635.88	2.45427E-05	3.81344E-05	5.54071E-05	7.1256E-05	0.00018934	0.70112	1.11469	0.8987	1.15577
633890.8	4254614.27	2.37572E-05	3.74454E-05	5.32461E-05	6.93713E-05	0.00018382	0.67868	1.09455	0.86365	1.1252
633885.7	4254592.65	2.30045E-05	3.67595E-05	5.11555E-05	6.73867E-05	0.000178306	0.65718	1.0745	0.82974	1.09301
633880.6	4254571.04	2.22848E-05	3.60777E-05	4.91222E-05	6.53017E-05	0.000172786	0.63662	1.05457	0.79676	1.05919
633875.6	4254549.42	2.15977E-05	3.54027E-05	4.72147E-05	6.32215E-05	0.000167437	0.61699	1.03484	0.76582	1.02545
633870.5	4254527.81	2.09438E-05	3.47369E-05	4.54409E-05	6.11814E-05	0.000162303	0.59831	1.01538	0.73705	0.99236
633865.4	4254506.19	2.03197E-05	3.40784E-05	4.3748E-05	5.91444E-05	0.00015729	0.58048	0.99613	0.70959	0.95932
633860.3	4254484.58	1.97253E-05	3.34284E-05	4.21814E-05	5.7195E-05	0.00015253	0.5635	0.97713	0.68418	0.9277
633855.3	4254462.97	1.91589E-05	3.27862E-05	4.06912E-05	5.5301E-05	0.000147937	0.54732	0.95836	0.66001	0.89698
633850.2	4254441.35	1.8617E-05	3.21475E-05	3.91888E-05	5.33694E-05	0.000143323	0.53184	0.93969	0.63564	0.86565
633845.1	4254419.74	1.80993E-05	3.15136E-05	3.77393E-05	5.14971E-05	0.000138849	0.51705	0.92116	0.61213	0.83528
633840.1	4254398.12	1.76047E-05	3.08855E-05	3.63398E-05	4.96888E-05	0.000134519	0.50292	0.9028	0.58943	0.80595
633835	4254376.51	1.71325E-05	3.02622E-05	3.49921E-05	4.79446E-05	0.000130331	0.48943	0.88458	0.56757	0.77766
633829.9	4254354.89	1.66802E-05	2.96426E-05	3.36918E-05	4.62683E-05	0.000126283	0.47651	0.86647	0.54648	0.75047
633824.8	4254333.28	1.62479E-05	2.90285E-05	3.24391E-05	4.46561E-05	0.000122372	0.46416	0.84852	0.52616	0.72432
633819.8	4254311.66	1.58341E-05	2.84185E-05	3.12368E-05	4.31086E-05	0.000118598	0.45234	0.83069	0.50666	0.69922
633814.7	4254290.05	1.54375E-05	2.78127E-05	3.00833E-05	4.16222E-05	0.000114956	0.44101	0.81298	0.48795	0.67511
633809.6	4254268.43	1.50577E-05	2.72102E-05	2.8981E-05	4.01912E-05	0.00011144	0.43016	0.79537	0.47007	0.6519
633804.5	4254246.82	1.46933E-05	2.66132E-05	2.79353E-05	3.88158E-05	0.000108058	0.41975	0.77792	0.45311	0.62959
633799.5	4254225.2	1.4344E-05	2.60207E-05	2.69434E-05	3.74884E-05	0.000104796	0.40977	0.7606	0.43702	0.60806
633794.4	4254203.59	1.40083E-05	2.54333E-05	2.60081E-05	3.62072E-05	0.000101657	0.40018	0.74343	0.42185	0.58728
633789.3	4254181.98	1.36866E-05	2.48517E-05	2.51295E-05	3.4968E-05	9.86359E-05	0.39099	0.72643	0.4076	0.56718
633784.3	4254160.36	1.33775E-05	2.4276E-05	2.43052E-05	3.3767E-05	9.57257E-05	0.38216	0.7096	0.39423	0.5477
634500.3	4254986.53	0.000391776	0.00011863	0.000399647	0.000256005	0.001166058	11.19202	3.46763	6.48225	4.15239
634614.6	4254988	0.001852046	0.000127038	0.000450072	0.000268659	0.002697814	52.90812	3.71338	7.30015	4.35763



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APPENDIX E

NOISE DATA/MODELING

Noise Measurement Survey – 24 HR

Project Number: MKT2	101	Test Personnel: <u>Jordan Roberts</u>				
Project Name: Elk Grov	e Station	Equipment: <u>Larson Davis Spark 706RC</u>				
Site Number: <u>LT-1</u>	Date: <u>8/24/21</u>	Time: From <u>11:00 a.m.</u> To <u>12:00 a.m.</u>				
Site Location: <u>Northeas</u> railway, approximately		industrial park, 165 feet west of center of sed station parking				
Primary Noise Sources:	Passing trains, commer	cial/industrial parking lot activity, wind.				
Note: 7' 6" sound walls	for homes on east side	of tracks				

Location Photo:



Noise Measurement Survey – 24 HR

Project Number: <u>MKT210</u>	01	Test Personnel: <u>Jordan Roberts</u>				
Project Name: Elk Grove	Station	Equipment: Larson Davis Spark 706RC				
Site Number: <u>LT-2</u>	Date: <u>8/24/21</u>	Time: From <u>12:00 p.m.</u> To <u>12:00 p.m.</u>				
		feet west of center of railway, approximately 700 feet north of Laguna Blvd traffic.				
Primary Noise Sources: <u>Pa</u>	assing trains, traffic or	ı Laguna Blvd.				
Note: 11, 2" sound wells:	agerby (sathaak from 1	mangurament location)				

Location Photo:



Noise Measurement Survey – 24 HR

Project Number: MKT2101 Test Personnel: Jordan Roberts
Project Name: Elk Grove Station Equipment: Larson Davis Spark 706RC

Site Number: LT-3 Date: 8/24/21 Time: From 1:00 p.m. To 1:00 p.m.

Site Location: <u>Eastern edge of Caterino Park, 90 feet west of center of railway, approximately ½</u> mile north of proposed southern terminus.

Primary Noise Sources: <u>Passing trains</u>, <u>distant Elk Grove Blvd traffic</u>, <u>Windy Cove Ln traffic</u>, <u>park activity</u>.

Note: 5' 10" sound wall at measurement location atop earth berm approximately 5' high

Location Photo:





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APPENDIX F

RIDERSHIP MEMORANDUM

MEMORANDUM

Date: November 19, 2021

To: David Williams, Mark Thomas

From: David B. Robinson, Fehr & Peers

Subject: SJRRC Elk Grove Station Ridership

RS20-3906

Fehr & Peers completed a ridership estimate of the Elk Grove Station proposed for the San Joaquin Regional Rail Commission (SJRRC) Valley Rail Sacramento Extension Project. This memorandum describes the proposed Project, the methodology used to estimate ridership, and presents daily and peak hour traffic volume forecasts.

SJRRC Elk Grove Station

The SJJPA and the SJRRC, which manage the Amtrak San Joaquins and the Altamont Corridor Express (ACE), respectively, are jointly undertaking the planning, design, and environmental review of the 2021 North Elk Grove Station Project (proposed project). The proposed project would result in the development of a passenger rail station and supporting siding track in the City of Elk Grove.

In March 2020, the SJJPA and SJRRC released the Valley Rail Sacramento Extension Project Draft Environmental Impact Report (EIR), which analyzed the extension of passenger rail service to new markets in San Joaquin and Sacramento counties. While the March 2020 Draft EIR evaluated six new station sites, including a proposed station site that would serve the Elk Grove community (i.e., the North Elk Grove Station), during project approval, SJJPA and SJRRC eliminated the North Elk Grove Station in unincorporated Sacramento County from further consideration, and the station site was not part of the project Final EIR certified by the SJRRC on October 2, 2020. SJRRC and SJJPA have continued coordination efforts with the City of Elk Grove to determine a new station site that would serve the Elk Grove community. Those discussions resulted in the identification of the currently proposed station location that is shown on **Figure 1** below, the proposed North Elk Grove Station would be located on Dwight Road, north of Laguna Boulevard. Station access would be provided by a new intersection on Dwight Road.

Figure 1 – Proposed Station Location



The Valley Rail Sacramento Extension Project, which is a proposed passenger rail service between Stockton and Sacramento, includes the following objectives:

- Expand passenger rail service to new markets in San Joaquin County and Sacramento County.
- Increase frequency of service.
- Increase passenger rail ridership.
- Reduce travel time between the San Joaquin Valle and Sacramento area.
- Augment existing transit capacity and provide transit connections.
- Provide an alternative to automobile traffic congestion.
- Improve air quality.
- Reduce greenhouse gas emissions.
- Support local and regional land use development plans and policies.

SJRRC Elk Grove Station VMT Evaluation November 19, 2021 P a g e | 3

The Valley Rail Sacramento Extension Project would expand Amtrak San Joaquins and Altamont Corridor Express (ACE) passenger rail service to the Greater Sacramento area and includes construction of six new rail stations and track improvements along the Union Pacific Railroad (UPRR) Sacramento Subdivision. The proposed stations would include one new station in Lodi (San Joaquin County) and five new stations in Sacramento County at the following locations:

- City of Elk Grove North Elk Grove Station (proposed project)
- City of Sacramento City College Station
- City of Sacramento Midtown Sacramento Station
- City of Sacramento Old North Sacramento Station
- Sacramento County Natomas/Sacramento Airport Station

The increased passenger rail service would add one additional round trip for the Amtrak San Joaquins service to the proposed Natomas/Sacramento Airport Station and the existing Fresno Amtrak Station and one additional round trip to the existing Bakersfield Amtrak Station. ACE service would also increase with one additional round trip between the proposed Natomas/Sacramento Airport Station and the existing San Jose Diridon Station, one additional round trip between the proposed Natomas/Sacramento Airport Station and the existing Stockton Downtown/ACE Station, which will connect to a San Joaquins train at Stockton that travels between Bakersfield and Oakland, and three round trips between the proposed Ceres Ace Station and the proposed Natomas/Sacramento Airport Station.

Table 1 summarizes estimated ridership for the SJRRC Elk Grove Station. Ridership was estimated based the following inputs:

- Reported total daily ridership from the Valley Rail Sacramento Extension Project Draft Environmental Impact Report (EIR)
- SJRRC Elk Grove Station parking
- Capitol Corridor Station Access Study for stations located in suburban communities similar to Elk Grove
- Operational and service characteristics of proposed transit service, relative to Capitol Corridor service
- Elk Grove land use context

As shown, total ridership is estimated at 890 (boardings/alightings with 667 accessing the station by auto, including park-and-ride (PNR), kiss-and-ride (KNR), taxi, and transportation network companies (TNC) trips. Ridership is representative of opening year 2025 conditions.

Table 1: SJRRC Elk Grove Station – Ridership

Mode	Ridership (Boardings/Alignthings)
Total	890
PNR	454
KNR/TNC/Taxi	213
Transit	129
Walk/Bike	94

SJRRC is coordinating with the Sacramento Regional Transit District (SacRT) to expand local and regional bus service for the new Elk Grove Station.

Table 2 summarizes the estimated vehicle trip generation based on expected operations and estimated ridership summarizes in **Table 1**. As shown, the project would generate 880 vehicle trip ends per day with 154 occurring during the AM peak hour and 88 occurring during the PM peak hour.

Table 2: SJRRC Elk Grove Station – Vehicle Trip Generation

Inputs				Notes
Access by PNR			454	Table 1
Access by KNR/TNC/Taxi			213	Table 1
Tota	Total Vehicle Trip Ends			Vehicle Trip Generation (454+213*2)
	AM	In	110	AM Peak Hour Begins – 7:15 AM PM Peak Hour Begins – 4:45 PM
Peak Hour of		Out	44	
Adjacent Street Traffic	PM	In	22	ACE Ceres-Merced Extension Project Draft Environmental Impact Report – Appendix D:
		Out	66	ACE Ceres-Merced Extension Ridership, Revenue, and Benefits Report.

Source: Fehr & Peers, 2021.

Table 3 daily roadway segment traffic volumes (two-way total) on Laguna Boulevard with and without the proposed project.

Table 3: Daily Roadway Segment Volumes (Two-way Total) - Existing and Future Conditions

	Segr	Existing Conditions		Future Conditions		
Roadway	From	То	No Project	Plus Project	No Project	Plus Project
Laguna Boulevard	Harbour Point Drive	Dwight Road/Babson Drive	32,228	32,484	42,300	42,556
	Dwight Road/Babson Drive	Franklin Boulevard	37,712	38,336	48,400	49,024

Notes: Existing Conditions represents 2019/2020 and Future Conditions represents 2040 conditions.

Source: Fehr & Peers, 2021



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APPENDIX G

DESIGN SCHEMATICS



UNION PACIFIC RAILROAD

PROJECT LOCATION -



VICINITY MAP

NOT TO SCALE



PROJECT LOCATION MAP

NOT TO SCALE



MARK THOMAS



PROJEC *IRACK IMPROVEMENT*

Progress Set

12/01/2021 12:49:08 AM

PROJECT INDEX

PROJECT DESIGN	DESCRIPTION
I KOSECI DESIGIA	

CT-601 to CT-602

CT-801 to CT-863

SHEET NAME	<u>TRACK</u>	ROADWAY	STRUCTURES

G-001	COVER SHEET
G-002	PROJECT INDEX AND REVISION SHEET
G-003	UPRR GENERAL NOTES
G-004	PROJECT GENERAL NOTES
G-005	LEGEND AND ABBREVIATIONS
G-006	CONTROL POINTS AND GEOMETRY SHEET
G-007	UPRR QUANTITY SUMMARY TABLE
G-009	KEY MAP AND PROJECT DESIGN NOTES
G-101 to G-102	TRACK TYPICAL SECTIONS
CT-101 to CT-106	TRACK ML1 PLAN AND PROFILE
CT-201 to CT-209	TRACK ML2 PLAN AND PROFILE
CG-101 to CG-109	GRADING AND DRAINAGE PLAN AND PROFILE
CT-501 to CT-502	TRACK DETAILS
CG-501 to CG-502	GRADING AND DRAINAGE DETAILS

CONSTRUCTION PHASING PLAN

TRACK A CROSS SECTION



	PROJECT REVISIONS			
REV.#	BY	DATE:	DESCRIPTION	
REV. A	AR	06/04/2021	10% PLAN SET SUBMITTAL	

	REV.#	BY	DATE	DESCRIPTION	_
					=
					=
7					-
7					-
Z/I.	Α	AR	6/4/2021	10% Submittal	

Ex. UPRR Track
Prop. UPRR Track Shift UPRR Track Future UPRR Track Ex. Ind. Track - - Prop. Ind. Track Remove Ind. Track

Remove UPRR Track





Hand Throw Turnout
Power Turnout Power Dera Hand Throw Derail Point of Curve ☐ Bridge





	(
	DRAW Z
C	CHEC
	DATE:
_	PAG

SHEET #:
G-002
DRAWN BY:
ZW/TC
CHECKED BY:
AR . 28/2021 GE NUMBER

UNION PACIFIC RAILROAD

Elk Grove, CA - Sacramento Sub MP 126.87 to 128.51 ACE Elk Grove Station Project

10% Design

For use in Agreement with: ACE

2 of 15 SHEET INDEX

- No work whatsoever shall be commenced without first notifying the UPRR
- The Contractor shall comply with all Federal, State, County, and City Laws and Ordinances and Regulations of the Department of Industrial Relations, OSHA, NPDES and Industrial Accident Commission related to the safety and character of the work, equipment and labor personnel.
- 4. Contractor shall be responsible for coordinating with all Utility agencies.
- Contractor shall protect in place (by any means necessary) all existing utilities to remain unless otherwise specified herein, contractor shall be responsible for the complete repair at his expense, for any damage to existing utilities, structures, or other site features, as a result of his work.
- Prior to placing curbs, pavements, base, subbase, track, etc., all underground utilities shall be installed, backfill completed, and the Engineer notified by each of the utility companies having facilities within the work area, that the utility installation has satisfactorily passed acceptance tests.
- 7. All existing underground utilities, that are not to be re-used shall be abandoned in place. All existing pipelines to be abandoned in place shall be cement slurry filled and capped at least 3'-0" below top of proposed subgrade.
- 8. Contractor shall verify locations and elevations of existing utilities whether known or unknown prior to beginning construction.
- Any underground structures such as cesspools, cisterns, mining shafts, tunnels, septic tanks, wells, and pipelines not located prior to construction shall be brought to the attention of the engineer for determiniation of appropriate action such as removal or treatment in a manner judged suitable to
- 10. Contractor shall coordinate location of all proposed utilities with UPRR to assure accuracy of utility connections and compliance with local codes.
- 11. Any existing conditions found to be a variance with these drawings must be nediately reported to the Engineer.
- 12. Contractor shall maintain and clean to the satisfaction of the Engineer, all access and service roads used during construction.
- 13. Contractor shall perform all construction in such a manner as to protect adjacent existing buildings, and other site elements which are to remain in
- 14. Contractor shall provide As-built Drawings for all improvements.

DESIGN CRITERIA

- 1. UPRR Engineering Track Standards
- 2. AREMA Manual for Railway Engineering
- 3 Caltrans Standard Plans

RR_pentable_half.tb GeneralNotes.dgn

-PW/Documents/Projects/20152-ACEEIkGrove/CAD Resource/UP app.jmacivil.com.jma-pw\jmacivil.zwang\dms40567\6-003 UPRR

APP.jmacıvıl.com:JMA-workingdir\jma-pw-a

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SURVEY NOTES

- Railroad stationing for project profiles and alignments is based on stations established for chord definition spiraled curves at the centerline of the existing UPRR Main Line unless otherwise noted.
- The contractor is responsible for the preservation of all survey control monuments. In the event monuments are damaged or destroyed by the contractor, the Engineer will replace the monument solely at the contractor's expense.
- Field survey was done by Mark Thomas Company, Inc. on September 8th 2021 Ground survey was performed by Cinquini & Passarino Inc. in August 2021.
- 4. All survey is performed on California State Plane, Zone 2.
- 5. Refer to sheet G-006 for Survey Control Points

	DATUM
HORIZONTAL	NAD 1983
VERTICAL	NAVD 88

- 15. No field changes will be permitted without direct written authorization from the UPRR Engineer or his representative
- Contractor shall coordinate work which affects adjacent property owners.

 Any questions or agreements between adjacent property owners and contractor shall be made in writing. A copy of such agreement shall be provided to the UPRR Engineer or his representative.
- The contractor is responsible for preparing a Stormwater Pollution Prevention Plan (SWPPP) to comply with State regulations. General specifications and typical erosion control details are included in the plan set.
- Right-of-way lines shown on the plans were taken from existing UPRR rightof-way map and are approximate
- Match lines for sheets are based on the existing Main Line stationing unless otherwise specified
- Track laying, ballasting, and installation of road crossing panels will be done by UPRR unless otherwise stated.
- Where existing culverts are to be extended, the contractor shall expose existing drainage structures and field verify size and type before ordering.
- The contractor is responsible for the removal of all pavement markings that will be in conflict with the proposed work.
- Contractor shall comply with all Caltrans and Elk Grove standard specifications for construction of public improvements requirements. Elk Grove standard specifications shall prevail.
- Contractor shall maintain at least one access to all affected business. If necessary, multiphase construction shall be utilized
- Contractor shall comply with UPRR General Conditions and Specifications.
- UPRR General Conditions and Specifications will be followed except where "Project" Conditions and Specifications are more stringent and deviations are approved by the UPRR Engineer.
- Owner and Railroad Submittals: Submit product data and shop drawings to Owner and Railroad for approval prior to construction for all materials shown on the plans, including, but not limited to rails, ties, turnouts, bumping posts, derails, fasteners, other track materials, crossing panels, subballast
- Track work materials and construction: All track work shall be constructed in accordance with UPRR mail line track standards.
- UPRR MP and Stationing established from Val Map CW34004E-V5 at Sims Road

TRAFFIC NOTES

- All barricades, warning signs, lights, devices, etc. for the guidance of vehicle traffic and pedestrians must conform to the installation shown in the CA Manual on Uniform Traffic Control Devices (MUTCD), current edition.
- Contractor shall make twice daily inspections of barricades and flashing lights to ensure proper placement and functioning of warning devices.
- Grade crossings closed to traffic during construction shall be barricaded in accordance with the CA MUTCD.
- At all grade crossings, all grade crossing warning signs (crossbuck) shall temporarily be relocated during construction and reset after the grade crossings construction is completed to a point adjacent to the roadway and 15 feet from the centerline of the near track as stated in the CA MUTCD except where automatic grade crossing warning signals/gates exisit. All automatic warning devices are the responsibility of UPRR. At no time shall a crossing be left open without proper warning signs in place.
- Contractor shall submit traffic control plans to Ceres Traffic Department for approval at least 2 weeks prior to each road closure. Plans shall be 11" x 17" engineered drawings, sealed by a professional engineer from Caltrans.
- The contractor is responsible for the prompt replacement and/or repair of all traffic control devices and appurtenances damaged or disturbed due to

UPRR GENERAL CONTACTS

ORGANIZATION PHONE NUMBER

(800) 336-9193 UPRR CALL BEFORE YOU DIG

(888) 258-0808 CALL BEFORE YOU DIG (NATIONAL DIRECTORY)

(888) 877-7267 UPRR Response Management Communications Center (RMCC)

UPRR PROJECT CONTACTS

NAME	PHONE NUMBER	<u>TITLE</u>
Timothy Barron	(916) 759-9206	UPRR Construction Supervisor
Ellis Mays	(402) 427-4231	UPRR Project Manager (Benesch)
Kevin Yoder	(530) 320-9943	UPRR Project Manager (Benesch)

ADDITIONAL PROJECT CONTACTS

NAME	PHONE NUMBER	IIILE
Bryan Pennino	(209) 370-1908	SJRRC Project Manager (Pennino Management Group)
David Williams	(916) 529-1951	Senior Project Manager (Mark Thomas)
Jon Marshall	(925) 400-4357	Rail Design Engineer (JMA Civil)



Ex. UPRR Track Prop. UPRR Track Remove UPRR Track Shift UPRR Track Future UPRR Track Ex. Ind. Track Prop. Ind. Track Remove Ind. Track

Shift Ind. Track Future Ind. Track Prop. Leased Ind. Track - + - + - + Ex. Leased Ind. Track No UPRR Operations Foreign Railroad or Ind. Track ____ Right of Way ---- Acquire Property



Hand Throw Turnout Power Turnout Power Deral Hand Throw Derai Point of Curve Bridge





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UNION PACIFIC **RAILROAD**

Elk Grove, CA - Sacramento Sub MP 126.87 to 128.51 ACE Elk Grove Station Project

10% Design

For use in Agreement with:

3 of 15 **UPRR GENERAL NOTES**

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Yard Limit

Whistle Post

Reduce Speed

Resume Speed

General Purpose

Cattle Guard

Paved Road

Interstate Highway

Federal Highway

State Highway

County Highway

Wetlands

Wetlands Impacted

Waters of the US

Note (Work by Contractor)

10% Design

LEGEND AND ABBREVIATIONS

For use in Agreement with:

Note (Work by Others)

River or Lake

Cut Lines

Fill Lines

Grading Limits

Permitted Boundary / Temporary Workspace

Flanger

Station

1 Mile to Yard Limit

4 of 15

T: 925.400.4356

SURVEY CONTROL POINTS

	CON	TROL POINT TA	ABLE
POINT	NORTHING	EASTING	DESCRIPTION
2101	1909269.920	6716926.213	SVFX W/ 100D NAIL
2102	1909196.632	6718177.326	SVFX W/ 100D NAIL
2103	1909333.469	6718508.164	SVFX SET 100D NAIL
2104	1912369.260	6716833.077	SVFX SET MAG NAIL
2105	1912367.322	6717856.159	SVFX SET MAG NAIL
2106	1912448.412	6718353.970	SVFX SET MAG NAIL
2107	1915552.930	6716365.904	SVFX SET MAG NAIL
2108	1915618.423	6717458.690	SVFX SET 100D NAIL
2109	1915660.653	6718123.306	SVFX SET MAG NAIL
2110	1917705.404	6716143.276	SVFX SET MAG NAIL
2111	1917797.986	6717239.266	SVFX SET MAG NAIL
2112	1917701.481	6717760.462	SVFX SET MAG NAIL
2113	1920898.750	6715936.532	SVFX SET 100D NAIL
2114	1921020.616	6717016.228	SVFX SET 100D NAIL
2115	1921126.435	6717645.127	SVFX SET 100D NAIL
2116	1924317.931	6715770.698	SVFX SET 100D NAIL
2117	1924246.398	6716553.226	SVFX W/ 100D NAIL
2118	1924325.738	6717445.813	SVFX SET 100D NAIL

Note:

SEE KEY MAP ON SHEET G-009 FOR CONTROL POINT LOCATIONS.

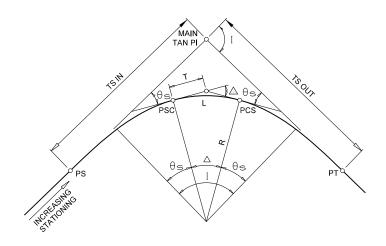


FIGURE A CIRCULAR CURVES WITH SPIRAL TRANSITION

[- TOTAL INTERSECTION ANGLE

 θ_{S} - SPIRAL ANGLE = $\frac{AL^2}{2}$

 \triangle - CENTRAL ANGLE OF CIRCULAR CURVE =] - 2 θ \lessgtr

Dc - DEGREE OF CURVE

A - RATE OF CHANGE OF DEGREE OF CURVE PER 100-ft. OF LENGTH = $\frac{Dc}{I}$

R - RADIUS OF CIRCULAR CURVE

T - TANGENT LENGTH OF CIRCULAR CURVE = R TAN $\frac{\triangle}{2}$

L - LENGTH OF CIRCULAR CURVE = $\frac{\triangle}{Dc}$ x 100

PS - TANGENT TO SPIRAL

PSC - SPIRAL TO CURVE

PCS - CURVE TO SPIRAL

PT - SPIRAL TO TANGENT

MAIN TAN PI - POINT OF INTERSECTION OF MAIN TANGENTS

(TS IN) (TS OUT) - TANGENT LENGTH OF COMPLETE CURVE = (R+o) TAN $\frac{1}{2}$ + t

(WHEN SPIRALS OF EQUAL LENGTH ARE USED ON BOTH SIDES OF CIRCULAR CURVE, SEE FIGURE C. FOR o AND t)

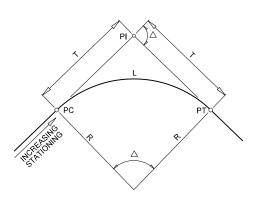


FIGURE B SIMPLE CIRCULAR CURVE

R = RADIUS OF CIRCULAR CURVE

△ = CENTRAL ANGLE OF CIRCULAR CURVE

 $T = R TAN \stackrel{\triangle}{=}$

 $L = \frac{\triangle}{Dc} \times 100$

Dc = 2 SIN⁻¹ (50/R) = DEGREE OF CURVE (CHORD DEFINITION)

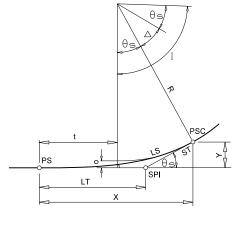


FIGURE C SPIRAL TRANSITION CURVE

SPIRAL TRANSITION CURVE DATA: THE SPIRAL USED IS DEFINED BY THE TALBOT SPIRAL.

LS = LENGTH OF SPIRAL (TS TO PSC)

 $X = 100 L_1 - 0.000762A^2L_1^5$

 $Y = 0.291AL_1^3 - 0.00000158A^3L_1^7$

0.0727AL₁

50L₁ - 0.000127A² L₁⁵

 $Dc = 2 SIN^{-1} (50/R) = DEGREE OF CURVE (CHORD DEFINITION)$

L₁ - TOTAL NO. OF STATIONS IN SPIRAL

SPI - SPIRAL POINT OF INTERSECTION

NOTE: Dc, θ _S, \triangle , AND [ARE IN DEGREES. ALL OTHERS DIMENSIONS ARE FEET.

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— — Prop. Ind. Track

Ex. UPRR Track Prop. UPRR Track Remove UPRR Track Shift UPRR Track Future UPRR Track Ex. Ind. Track Remove Ind. Track





Hand Throw Turnout Power Turnout Power Deral Hand Throw Derail Point of Curve ☐ Bridge







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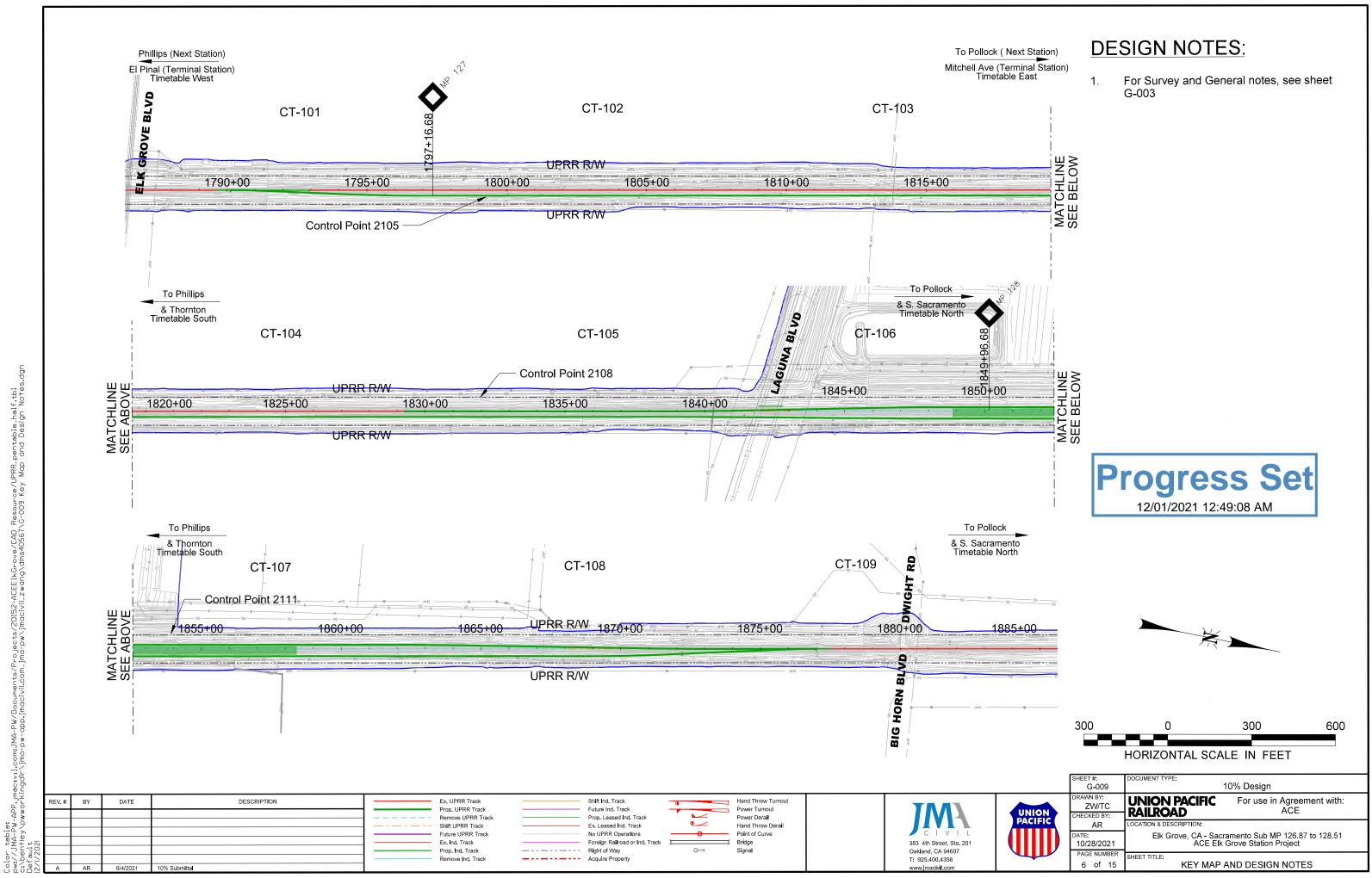
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Elk Grove, CA - Sacramento Sub MP 126.87 to 128.51 ACE Elk Grove Station Project

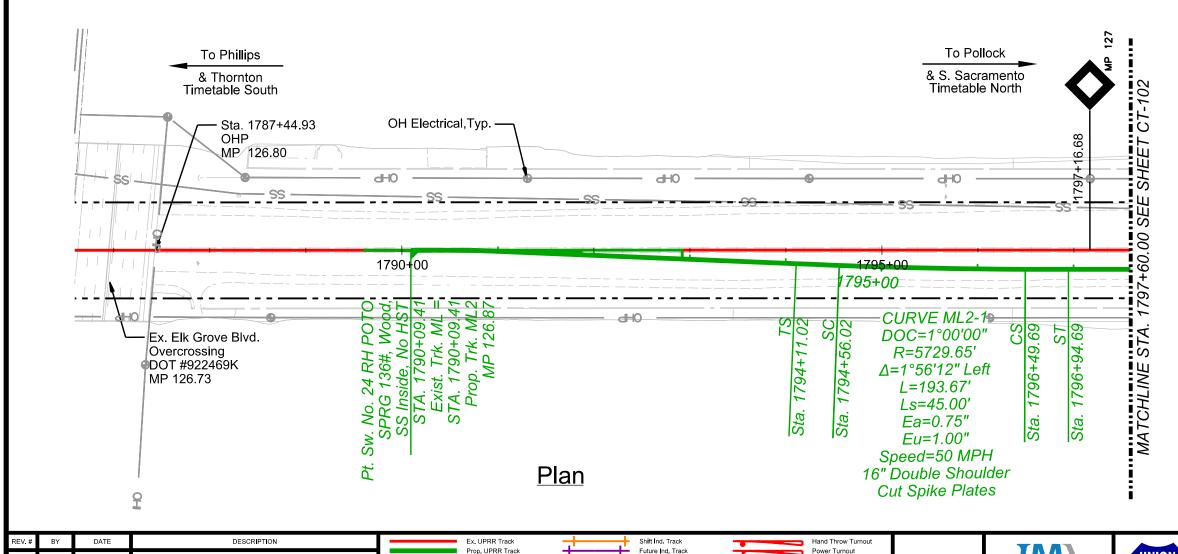
10% Design

5 of 15



DESIGN NOTES:

- Proposed Track Profile Will Be Provide at 25% Submittal Notes.
- Construction Notes with Quantities Will Be Provided at 25% Submittal.
- Typical Sections will be provided at 25% Submittal.



Remove UPRR Track

Future UPRR Track

Ex. Ind. Track

- - Shift UPRR Track

Prop. Ind. Track

Future Ind. Track

Ex. Leased Ind. Track

Acquire Property

Prop. Leased Ind. Track

No UPRR Operations

Foreign Railroad or Ind. Track

Power Derail

Point of Curve

Bridge

Hand Throw Derail

383 4th Street, Ste. 201

Oakland, CA 94607



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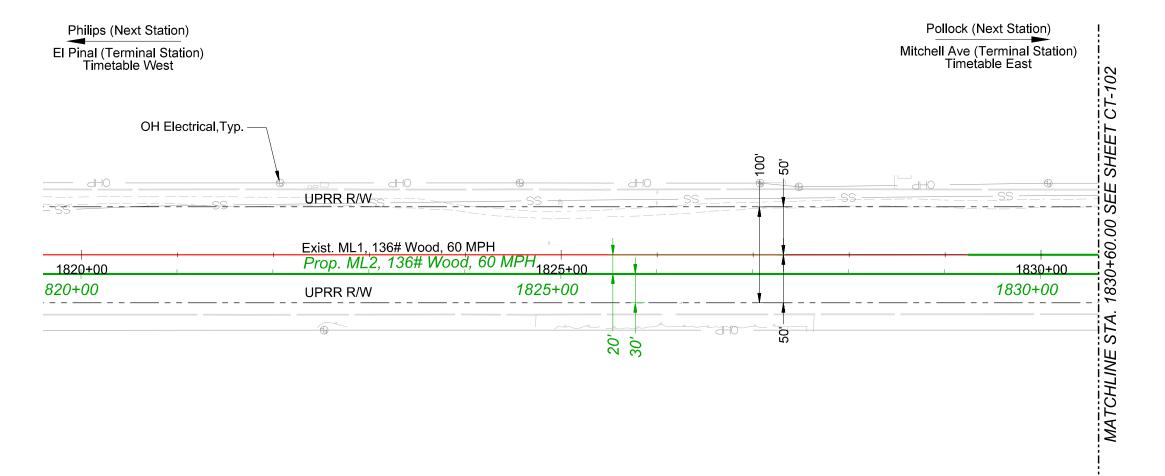
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	PAGE NUMBER \$CT-1013\$ \$#\$	SHEET TITLE: ML 1 TR	ACK PLAN AND PROFILE	

\$CT-1013 \$#\$

DESCRIPTION

DESIGN NOTES:

- Proposed Track Profile Will Be Provide at 25% Submittal Notes.
- Construction Notes with Quantities Will Be Provided at 25% Submittal.
- 3. Typical Sections will be provided at 25% Submittal.



Shift Ind. Track

- - - - - - - - Ex. Leased Ind. Track

---- Acquire Property

Future Ind. Track

Prop. Leased Ind. Track

No UPRR Operations

Foreign Railroad or Ind. Track

Hand Throw Turnout Power Turnout

Hand Throw Derail

Power Dera

Point of Curve

Bridge

Ex. UPRR Track

Prop. UPRR Track

Shift UPRR Track

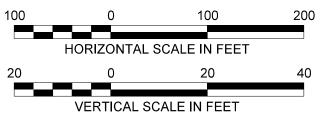
Future UPRR Track

Ex. Ind. Track

Prop. Ind. Track







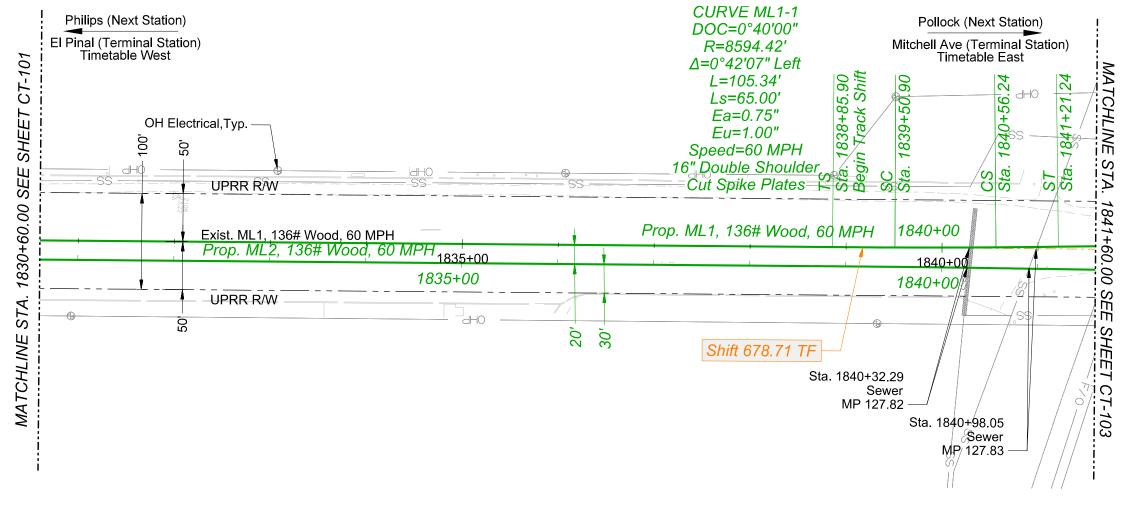
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	PAGE NUMBER 7 of 15	SHEET TITLE: MI 1 Plan and Profile

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DESCRIPTION

DESIGN NOTES:

- Proposed Track Profile Will Be Provide at 25% Submittal Notes.
- Construction Notes with Quantities Will Be Provided at 25% Submittal.
- 3. Typical Sections will be provided at 25% Submittal.



Shift Ind. Track

- + - + - + Ex. Leased Ind. Track

---- Acquire Property

Future Ind. Track

Prop. Leased Ind. Track

No UPRR Operations

Foreign Railroad or Ind. Track

Ex. UPRR Track

Prop. UPRR Track

Shift UPRR Track

Ex. Ind. Track

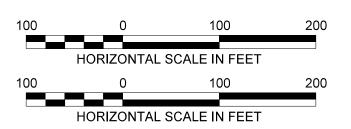
Prop. Ind. Track

Future UPRR Track

Remove UPRR Track







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PAGE NUMBER	SHEET TITLE: MI 1 Plan and Profile

Hand Throw Turnout Power Turnout

Hand Throw Derail

Power Dera

Point of Curve

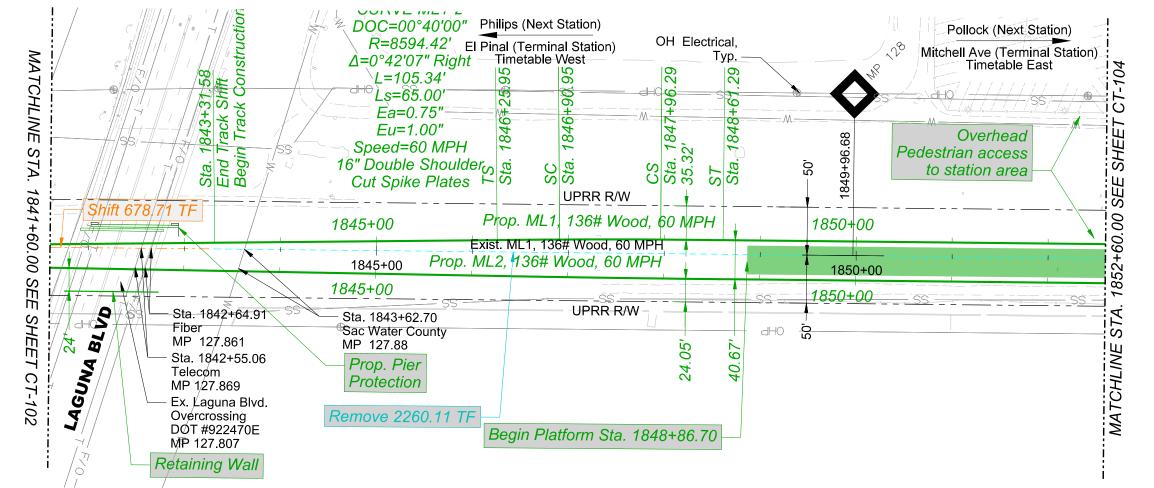
Bridge

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DESCRIPTION

DESIGN NOTES:

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- Construction Notes with Quantities Will Be Provided at 25% Submittal.
- Typical Sections will be provided at 25% Submittal.



Shift Ind. Track

- + - + - + Ex. Leased Ind. Track

---- Acquire Property

Future Ind. Track

Prop. Leased Ind. Track

Foreign Railroad or Ind. Track

No UPRR Operations

Hand Throw Turnout

Power Turnout

Power Deral

Point of Curve

Bridge

Hand Throw Derail

Ex. UPRR Track

Prop. UPRR Track

Shift UPRR Track

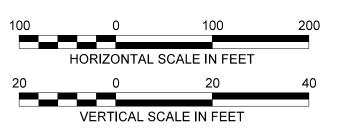
Ex. Ind. Track

Prop. Ind. Track

Future UPRR Track





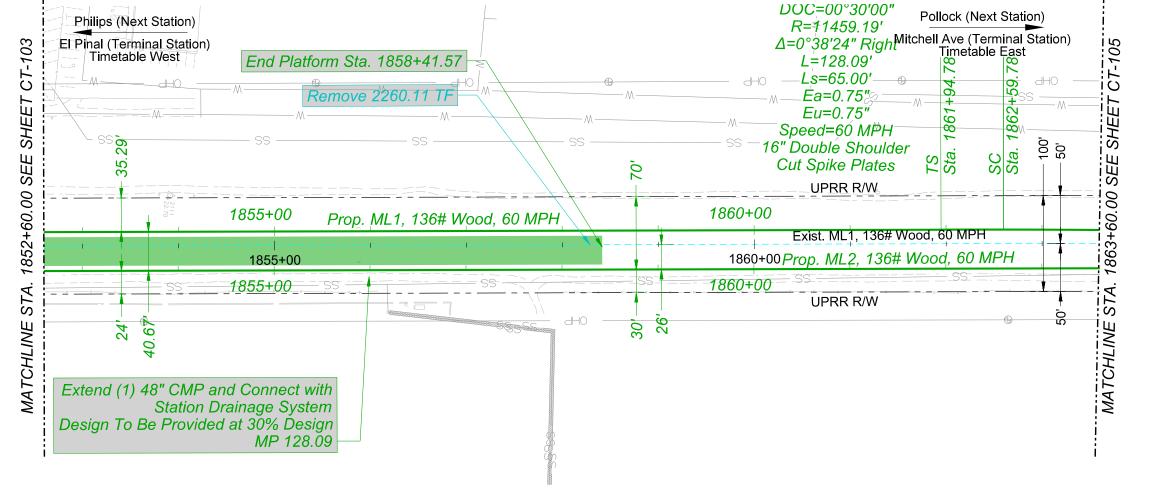


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DESCRIPTION

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Shift Ind. Track

---- Acquire Property

Future Ind. Track

Prop. Leased Ind. Track

Foreign Railroad or Ind. Track

Ex. Leased Ind. Track

No UPRR Operations

Hand Throw Turnout Power Turnout

Hand Throw Derail

Power Dera

Point of Curve

Bridge

Ex. UPRR Track

Prop. UPRR Track

Shift UPRR Track

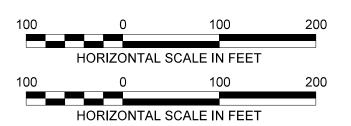
Ex. Ind. Track

Prop. Ind. Track

Future UPRR Track







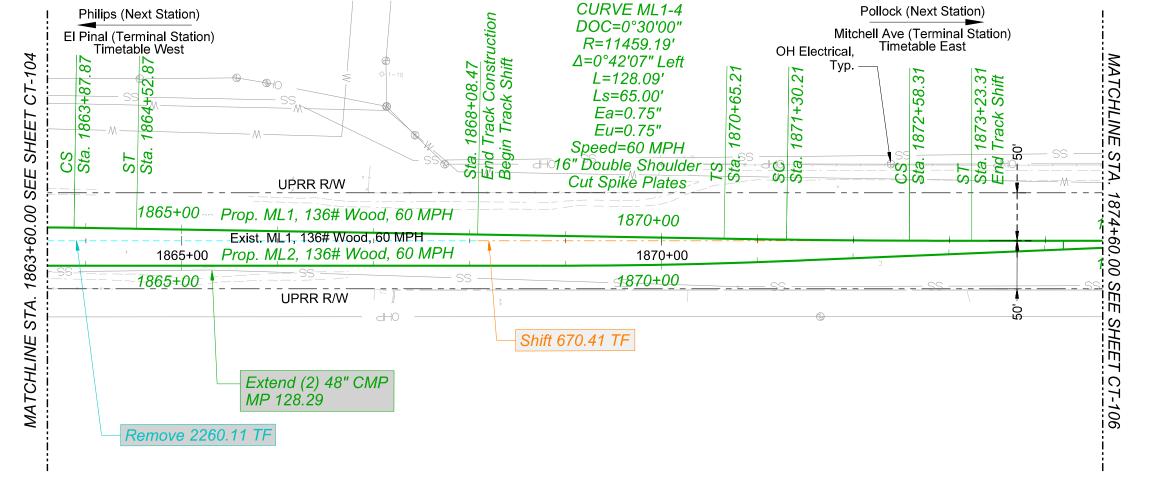
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DESCRIPTION

DESIGN NOTES:

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- Construction Notes with Quantities Will Be Provided at 25% Submittal.
- Typical Sections will be provided at 25% Submittal.



Shift Ind. Track

- + - + - + Ex. Leased Ind. Track

---- Acquire Property

Future Ind. Track

Prop. Leased Ind. Track

Foreign Railroad or Ind. Track

No UPRR Operations

Hand Throw Turnout Power Turnout

Hand Throw Derail

Power Dera

Point of Curve

Bridge

Ex. UPRR Track

Prop. UPRR Track

Shift UPRR Track

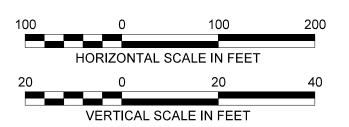
Ex. Ind. Track

Prop. Ind. Track

Future UPRR Track





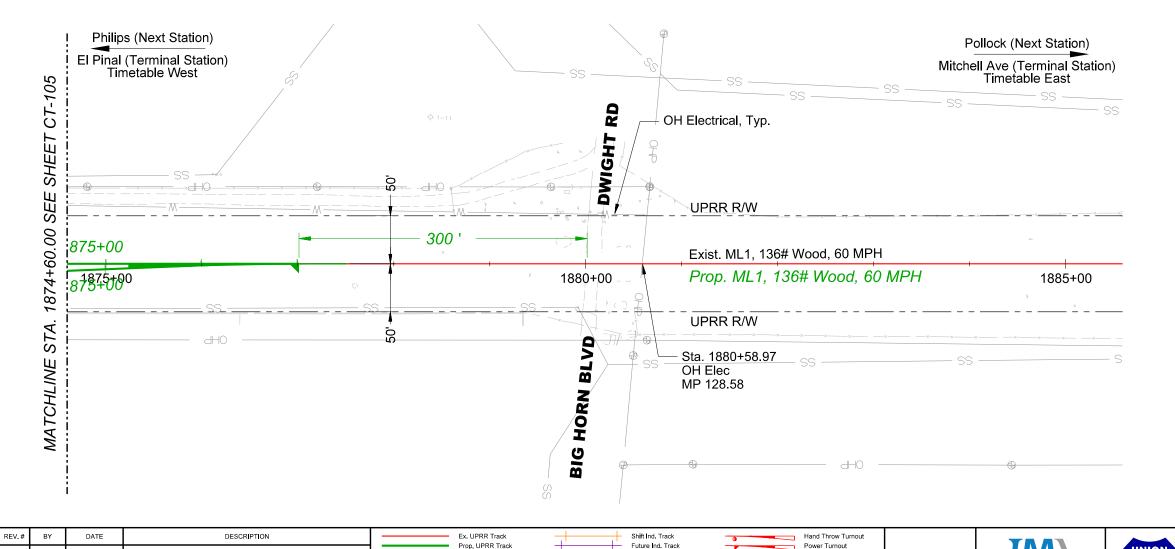


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PAGE NUMBER 11 of 15	SHEET TITLE: ML1 Plan and Profile

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DESIGN NOTES:

- Proposed Track Profile Will Be Provide at 25% Submittal Notes.
- Construction Notes with Quantities Will Be Provided at 25% Submittal.
- Typical Sections will be provided at 25% Submittal.



Future Ind. Track

- - - - - - - - Ex. Leased Ind. Track

---- Acquire Property

Prop. Leased Ind. Track

No UPRR Operations

Foreign Railroad or Ind. Track

Power Dera

Point of Curve

Bridge

Hand Throw Derail

Prop. UPRR Track

Shift UPRR Track

Future UPRR Track

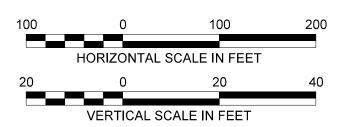
Ex. Ind. Track

Prop. Ind. Track

Remove UPRR Track







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Oakland, CA 94607



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