Draft Wasteload Evaluation for HF Sinclair-West facility (OK0000876) and Kimberly-Clark (OK0040827)

Arkansas River
OKWBID #OK120420010010_10 and OK120420010010_00

Model originally developed by INCOG in 2009
Model updated and report revised on August 13, 2025 by DEQ

Contents

1. Problem Definition....2
2. Endpoint Identification....2
3. Source Analysis....3
    3.1. Point Sources....3
    3.2. Non-Point Sources....4
    3.3. Background....4
4. Linkage between Sources and Receiving Water....4
    4.1. Model Inputs....5
    4.2. Maximum Assimilative Capacity....5
5. Margin of Safety....6
6. Allocations....6
7. Final Recommendations....7
8. Public Participation....7

Tables

Table 1. Maximum Assimilative Capacity....6
Table 2. DO Load Allocations for HF Sinclair-West....6
Table 3. DO Load Allocations for Kimberly-Clark....7
Table 4. Sensitivity Analysis for Minimum DO at Zink Dam....9

Figures

Figure 1. Location of HF Sinclair Refinery-West Facility and Kimberly-Clark....8
Figure 2. Seasonal DO Profile....9

1. Problem Definition

This wasteload allocation (WLA) addresses the impact of in-stream organic enrichment on dissolved oxygen (DO) resulting from the discharge of treated wastewater from the HF Sinclair Tulsa Refining Company-West facility (OK0000876) and Kimberly-Clark (OK0040827). Under seven-day, two-year low flow (7Q2) critical conditions, the WLA allocates DO-demanding substances (BOD and Ammonia) to ensure water quality standards are met.

The analysis also accounts for non-point source impacts through the use of conservative kinetic inputs / assumptions, and incorporates Sediment Oxygen Demand (SOD) to calculate the Load Allocation (LA).

Currently, the HF Sinclair Refinery-West facility and Kimberly-Clark operate as a permitted dischargers at river mile 524.3 and 510.5, respectively, on the Arkansas River in Tulsa County, Oklahoma. To remain consistent with existing permit conditions, the Oklahoma Department of Environmental Quality (DEQ) has requested a design flow of 3.75 MGD for HF Sinclair Refinery-West and 3.69 MGD for Kimberly-Clark.

Segments OK120420010010_10 and OK120420010010_00 of the Arkansas River are classified in the Oklahoma Water Quality Standards for the following beneficial uses:

- Warm Water Aquatic Community (WWAC)
- Primary Body Contact Recreation (PBCR)
- Emergency Water Supply
- Fish Consumption
- Agriculture
- Aesthetics
- Navigation

These segments of the Arkansas River are listed in Oklahoma's 2022 303(d) list for the following impairments; however, this modeling assessment focuses only on DO demanding substances and does not have any impact on the current 303(d) list status.

OK120420010010_10
- Cadmium

OK120420010010_00
- Enterococcus
- Lead
- Turbidity

In November 2007, INCOG completed a draft bacteria TMDL for segment OK120420010010_00 for fecal coliform and enterococcus. The report was approved by EPA in November 2008.

This WLA has been developed in order to ensure that the limits assigned to the discharge are stringent enough to maintain DO standards under critical conditions.

A map of the study area (Figures 1) is included in the report.

2. Endpoint Identification

The Oklahoma Water Quality Standards define DO criteria for two flow regimes: critical low-flow and nuisance conditions. The critical low-flow is evaluated at either 7Q2 or 1.0 cfs, whichever is greater.

Nuisance conditions apply only when there is no upstream flow. Since the Arkansas River has a 7Q2 greater than 1.0 cfs, a nuisance condition determination is not needed.

The following numerical dissolved oxygen criteria for WWAC apply to the Arkansas River:

DO Numeric Criteria	
Summer (Jun–Oct):	5.0 mg/L
Spring (Apr–May):	6.0 mg/L
Winter (Nov–Mar):	5.0 mg/L

The Arkansas River has perennial flow which is regulated by the upstream Keystone Reservoir hydropower generation. The annual regulated 7Q2 is 221 cfs. The USGS flow gage at 11th Street in Tulsa (07164500), located approximately 1.2 river miles downstream of HF Sinclair-West and 13.1 river miles upstream of Kimberly-Clark, serves as the reference point for the 7Q2 flows used in all water quality modeling within the Tulsa area of the Arkansas River. The regulated seasonal flows for this gage from 2000 to 2024 were used in this study. They are:

- Summer: 706 cfs
- Spring: 1,592 cfs
- Winter: 289 cfs

Oklahoma's antidegradation policy (OAC 252:730-3) requires protecting all waters of the state from degradation of water quality. The allocated loadings/concentrations in this report were set with regard to all elements of the Oklahoma Water Quality Standards which include the antidegradation policy.

3. Source Analysis

3.1. Point Sources

HF Sinclair Wastewater Treatment Facility (WWTF) - West

Facility Legal Description:	SE¼, SE¼, NE¼, S 10, T 19N, R 12E IM
Receiving Stream:	Arkansas River
Point of Discharge (POD)	NE¼, SE¼, NE¼, S 10, T 19N, R 12E IM

Kimberly-Clark WWTF

Facility Legal Description:	NE¼, SW¼, NW¼, S 10, T 17N, R 13E IM
Receiving Stream:	Arkansas River
Point of Discharge (POD)	NE¼, NW¼, NW¼, S 10, T 17N, R 17E IM

Current Permit limit:

Permitted Flow:	3.75 MGD for HF Sinclair-West and 2.28 MGD for Kimberly-Clark
Summer (Jun - Oct):	Technology limits
Spring (Apr - May):	Technology limits
Winter (Nov - Mar):	Technology limits

While there are numerous dischargers to the Arkansas River located far upstream and downstream of the study area, there are no significant dischargers of oxygen-demanding substances within four miles upstream of the HF Sinclair-West discharge or within four miles downstream of the Kimberly-Clark discharge, except the Tulsa South Side WWTF (see Figure 1). The Tulsa South Side WWTF discharges to the Arkansas River approximately four miles downstream of HF Sinclair-West and nine miles upstream of Kimberly-Clark. Its effluent contributes a substantial oxygen demand load in the modeling boundary.

3.2. Non-Point Sources

The modeling for DO focuses on critical conditions (i.e., low-flow and high temperature); therefore, only minor impacts are expected from non-point source (NPS) runoff during low flow conditions. The model incorporates a separate safety factor (see below), which should also account for the uncertainties in NPS loadings. It is assumed that the Sediment Oxygen Demand (SOD) includes the residual effects from NPS at low flows. The SOD was used in the calculation of the Load Allocation (LA) at low flow.

3.3. Background Conditions Used in Modeling

Arkansas River Headwater:

Flow ($7Q_2$):	Seasonal flows cited above
BOD_5:	2.0 mg/L
Ammonia:	0.15 mg/L
DO:	85% saturation at the regulatory seasonal temperature

Polecat Creek Tributary:

Flow:	18.9 cfs
BOD_5:	5.0 mg/L
Ammonia:	1.92 mg/L
DO:	5.8 mg/L

4. Linkage between Sources and Receiving Water

The links between sources and the receiving stream can be established through the LAQUAL desktop water quality model. This model is a one-dimensional, steady-state, mass balance, Streeter-Phelps model, developed originally by Texas Natural Resource Conservation Commission as a DOS-based program called QUALTX. The State of Louisiana hired the programmer to develop a Windows text-entry GUI version, now called LAQUAL. LAQUAL is used extensively by Louisiana and has been used to prepare numerous WLA and TMDL studies for Oklahoma approved by ODEQ and EPA.

The seasonal LAQUAL models used in this study were originally developed and used by INCOG for EPA approved WLAs in 1995 and subsequent discharge scenarios for the Arkansas River. In 2005, INCOG revised the hydraulics and reach configurations to conform to recently obtained (from US Army Corps of Engineers' consultants) HEC-RAS hydraulic modeling of the entire study area (Keystone Dam to Coweta). Updates to the HEC-RAS modeling were generated in early 2009, and INCOG examined these as well.

The hydraulics used in this study reflect the eventual cleanout of the Zink Lake pool. The method of calculating reaeration at the Zink dam spillway that was used in the EPA approved 1995 models is retained (adding a few tenths of a mg/L DO across the channel as a nonpoint source due to turbulent mechanical aeration from an approximately 5-foot spillway height).

In 2025, DEQ updated the 2009 LAQUAL model to incorporate current seasonal 7Q2 flows and updated design flows for the facilities (HF Sinclair East and West facilities, Kimberly-Clark, Glenpool, Bixby, and Coweta) in the model boundary.

4.1. Model Inputs

The LAQUAL model used in this study determines the impact of DO-demanding substances on the instream DO concentration based upon a modified version of the Streeter-Phelps equation. The primary kinetic inputs were derived from literature values and the past WLAs performed by INCOG and ODEQ. The O'Conner-Dobbins equation was used to calculate the reaeration rates used in the model. This equation was previously approved by ODEQ and EPA as most suitable for this system. The other primary kinetic inputs (20ºC) were derived from literature values and are as follows:

Arkansas River:

BOD decay rate (**K_1**):	0.30-0.40/day
Reaeration Rate & Formula (**K_2**):	0.95 – 20.38/day
NBOD decay rate (**K_n**):	0.3-0.4/day
BOD settling rate (**K_s**):	0.10/day
Sediment Oxygen Demand (**SOD**):	0.060-0.070 g/ft^2/day

LAQUAL hydraulic parameters were derived from US Army Corps of Engineers (COE) HEC modeling calibrated from an extensive COE field cross section and flow study in 2005 and 2006. INCOG used a spreadsheet to develop coefficients and exponents for the LAQUAL model that gave a good fit to the HEC model outputs for summer and spring flows. The following exponential equations were used to calculate appropriate LAQUAL coefficients and exponents for velocity and depth of each reach:

$V = a*Q^b$ $D = c*Q^d + e$

Where: V = mean velocity (ft/sec)
Q = mean discharge (ft3/sec)
D = mean depth (ft)
a,b,c,d,e = constants

Sensitivity analysis on three model kinetics were performed. LAQUAL was set to calculate ±10%, ±25% and ±50% of BOD decay rate, BOD settling rate and ammonia decay rate. The results of all sensitivity analyses are presented in Appendix A. The HF Sinclair West discharges into Element 148 (mile 524.3), and the Kimberly-Clark discharges into Element 286 (mile 510.5). The results of the sensitivity analyses (see Appendix A) show that there were no significant changes to stream DO even with ±50% manipulation of the three parameters (BOD decay, BOD settling, and NH3 decay).

The model used for this report is based upon LAQUAL models prepared by INCOG in 2009 wasteload allocation study and updated by ODEQ in 2025. These models have used seasonal critical temperatures (OAC 252:730) with seasonal 7Q2 flows.

4.2. Maximum Assimilative Capacity

To estimate the maximum assimilative capacity of the Arkansas River, the concentrations of BOD_5 and NH_3-N from the point sources (HF Sinclair West and Kimberly-Clark) were incrementally increased at equal rates until the predicted instream dissolved oxygen (DO) concentration reached the applicable DO criterion.

The Load Capacity was calculated separately for two segments of the river: upstream of Zink Dam, where HF Sinclair West is located, and downstream of Zink Dam, where Kimberly-Clark discharges. The resulting mass loading, when combined with the mass loading from the river's headwater conditions, represents the maximum assimilative capacity of the stream for DO-demanding substances.

The results of this analysis are presented in Table 1.

Table 1. Maximum Assimilative Capacity

Season	Maximum Assimilative Capacity (lbs/day)	
	Upstream of Zink Dam	Downstream of Zink Dam
Summer (Jun–Oct)	22,270.5	39,147.2
Spring (Apr–May)	148,476.3	133,769.0
Winter (Nov–Mar)	18,187.7	67,813.2

Max. Assimil. Cap. = Max. Effluent load (lbs/d) + Headwater load (lbs/d)

Where: Max. BODu Effluent Load = {max. [BOD5] to just meet DO target x 2.3 x 8.34 x MGD} + {max. [NH3] to just meet DO target x 4.33 x 8.34 x MGD}

Headwater BODu Load = {[BOD5] x 2.3 x 8.34 x MGD} + {[NH3] x 4.33 x 8.34 x MGD}

5. *Margin of Safety*

The CPP specifies a 25% Margin of Safety (MOS) for uncalibrated, multiple source desktop models. Therefore, the inputs for HF Sinclair East and West facilities and Kimberly-Clark to the LAQUAL model were increased 25%. The MOS, load allocation, wasteload allocation and reserved capacity are calculated in the model and presented in the next section.

6. *Allocations*

The seasonal load allocations for HF Sinclair-West, calculated using spreadsheet analysis, are presented in Table 2, and those for Kimberly-Clark are shown in Table 3. In Table 2, the LAs represent contributions from Arkansas River headwater concentrations of BOD_5 and NH_3, converted to mass loads (lbs/d) at each season. In Table 3, the LAs reflect loads from both the Arkansas River Headwater and Polecat Creek.

The WLAs in Tables 2 and 3 represent the permitted mass loads for each facility: HF Sinclair-West is allocated 12.0 mg/L BOD_5 and 5.0 mg/L NH_3 at a Qe(30) flow of 3.75 MGD, while Kimberly-Clark is allocated 33.0 mg/L BOD_5 and 3.2 mg/L NH at a Qe(30) flow of 3.69 MGD. A 25% MOS is applied, representing 25% of the seasonal loads from HF Sinclair-West and Kimberly-Clark.

The Reserved Capacities are calculated within the seasonal LAQUAL models when the estimated DO in the receiving stream reaches the water quality standards, accounting for additional loads from the study facilities.

Table 2. DO Load Allocations for HF Sinclair-West

Season	LA (lb/day)	WLA (lb/day)	MOS (25%) (lbs/day)	Reserved Capacity (lbs/day)
Summer	19,985.4	1,540.3	385.1	359.7
Spring	45,047.8	1,540.3	385.1	101,503.1
Winter	8,177.7	1,540.3	385.1	8,084.6

Where LA = loads from headwater, and WLA = HF Sinclair-West limits without MOS.

Table 3. DO Load Allocations for Kimberly-Clark

Season	LA (lb/day)	WLA (lb/day)	MOS (25%) (lbs/day)	Reserved Capacity (lbs/day)
Summer	21,993.7	2,762.6	690.6	13,700.3
Spring	47,056.1	2,762.6	690.6	83,259.7
Winter	10,186.0	2,762.6	690.6	54,174.0

Where LA = loads from headwater and tributary, and WLA = Kimberly-Clark limits without MOS.

7. Final Recommendations

The following recommendations are proposed for inclusion in the Oklahoma Water Quality Management Plan (208 Plan). The LAQUAL model was run using the critical effluent flow, the highest monthly average flow over the two year period of record or $Q_{e(30)}$, as provided in the current permits.

HF Sinclair - West WWTF

Critical Effluent Flow ($Q_{e(30)}$): 3.75 MGD
Year Round: 375.3 lbs BOD_5/d and 156.4 lbs NH_3-N/d at 2 mg/L DO

Kimberly-Clark WWTF

Critical Effluent Flow ($Q_{e(30)}$): 3.69 MGD
Year Round: 1,015.6 lbs BOD_5/d and 98.5 lbs NH_3-N/d at 2 mg/L DO

The WLA evaluation indicates that the Arkansas River can assimilate the proposed mass loads from both facilities without exceeding seasonal DO targets, even with a 25% MOS. Therefore, these limits are recommended for incorporation into the 208 Plan for HF Sinclair-West and Kimberly Clark.

While reserve capacity in the Arkansas River is limited during the summer months upstream of Zink Dam, seasonal capacities presented in Tables 2 and 3 demonstrate sufficient remaining capacity to support the proposed limits. In accordance with OAC 252:690-3-59(a), the regulatory effluent flow used for permitting purposes shall not exceed the critical effluent flow of 3.75 MGD for HF Sinclair-West and 3.69 MGD for Kimberly-Clark.

8. Public Participation

This Draft WLA report will be submitted to EPA for technical approval. After technical approval is received, the proposed permit limits will be sent for public comments. Public comments received during this period will be responded to and become part of the WLA report.

The proposed limits will be implemented through the OPDES permit for HF Sinclair-West and Kimberly Clark, which represents an adequate implementation of the wasteload allocation. The water quality model in this report shows clearly that the recommended allocation of dissolved oxygen-demanding substances adequately addresses the stream's dissolved oxygen requirements. With the recommended limits in place, the stream will meet Oklahoma Water Quality Standards.

HF Sinclair-West and Kimberly-Clark are required to submit monthly Discharge Monitoring Reports (DMR) to the Oklahoma Department of Environmental Quality. The DMR will ensure that the beneficial uses will be maintained in the Arkansas River.

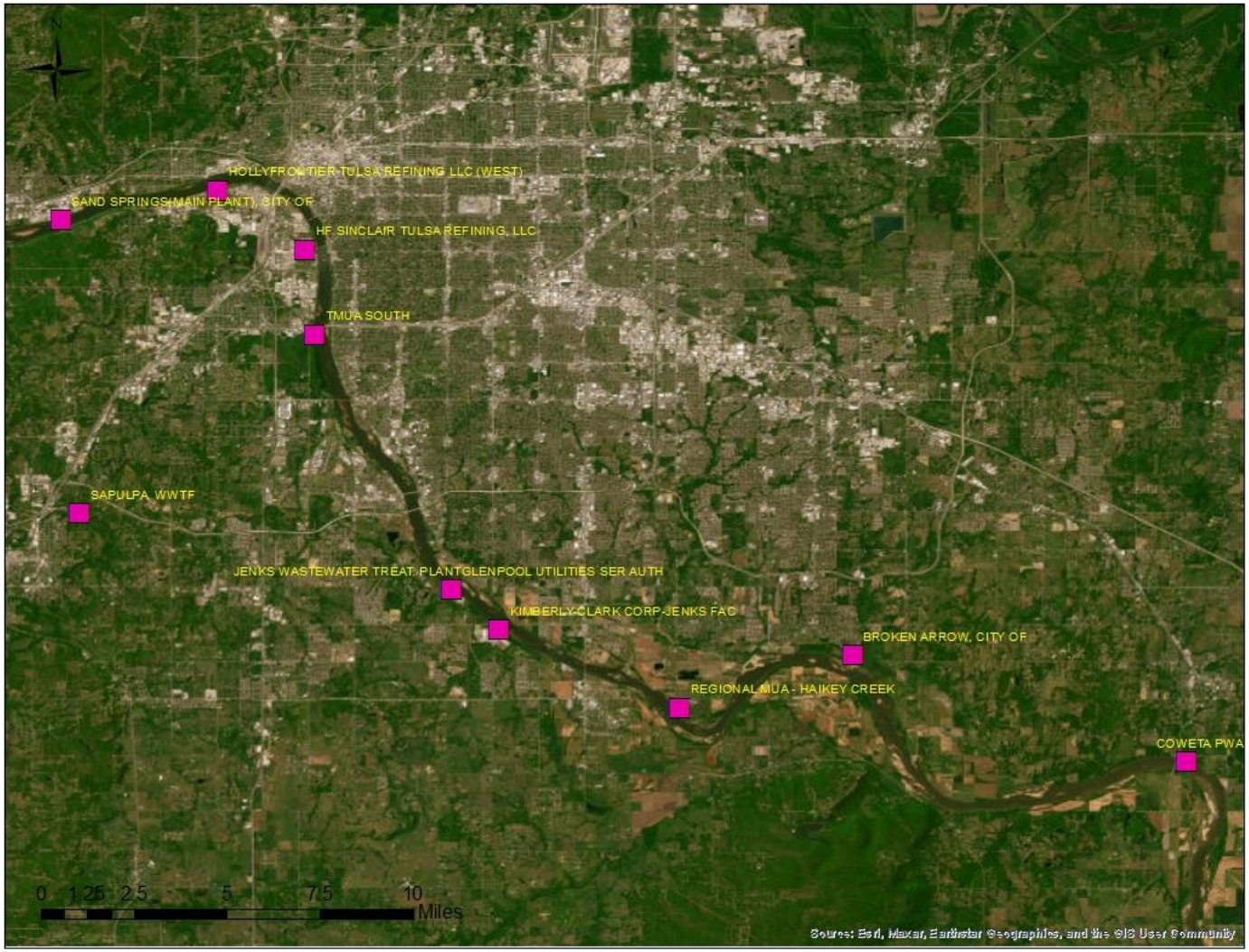

Figure 1. Location of HF Sinclair Refinery-West Facility and Kimberly-Clark

Appendix A: LAQUAL Model Outputs:

Table 4. Sensitivity Analysis for Minimum DO at Zink Dam

Minimum DO (mg/L)	Parameter	Parameter Change					
		+10%	-10%	+25%	-25%	+50%	-50%
5.02 for summer	CBOD Aerobic Decay Rate	4.99	5.07	4.95	5.15	4.91	5.33
	CBOD Settling Rate	5.03	5.02	5.03	5.01	5.04	5.00
	Ammonia Decay Rate	5.00	5.04	4.98	5.08	4.95	5.16
7.02 for spring	CBOD Aerobic Decay Rate	7.02	7.02	7.02	7.02	7.02	7.02
	CBOD Settling Rate	7.02	7.02	7.02	7.02	7.02	7.02
	Ammonia Decay Rate	7.02	7.02	7.02	7.02	7.02	7.02
6.41 for winter	CBOD Aerobic Decay Rate	6.34	6.49	6.26	6.63	6.15	6.92
	CBOD Settling Rate	6.42	6.40	6.43	6.40	6.44	6.38
	Ammonia Decay Rate	6.37	6.46	6.31	6.54	6.23	6.70

Plots for Seasonal DO:

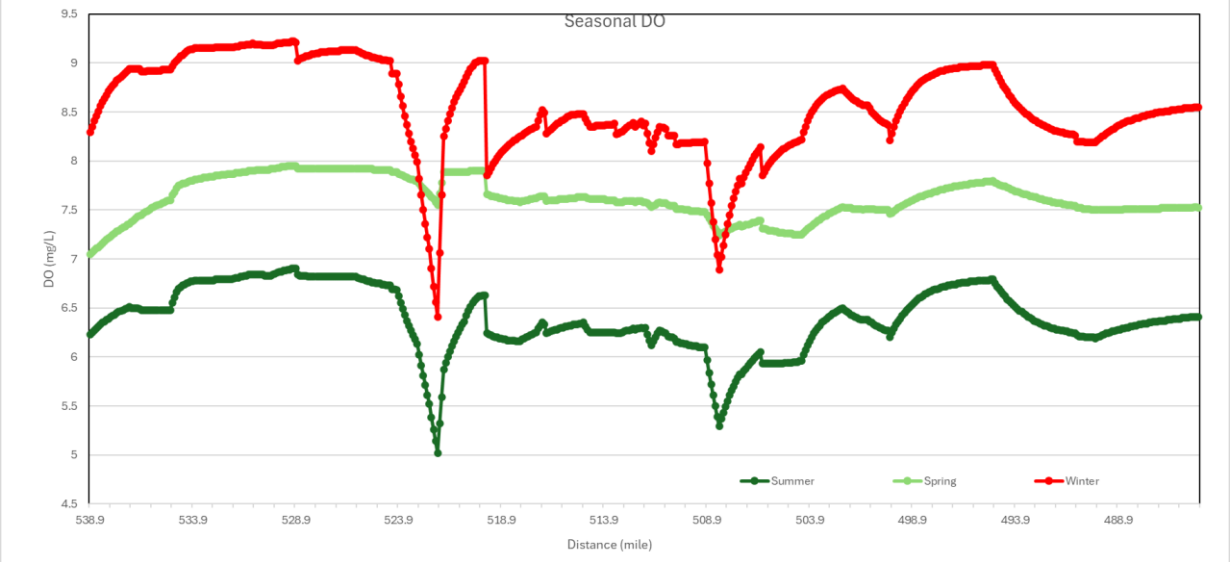

Figure 2. Seasonal DO Profile

LAQUAL SUMMER WASTELOAD ALLOCATION MODEL INPUT AND OUTPUT FILES

```
LA-QUAL Version 8.11

Input file is C:\Users\257691\Documents\LAQUAL\KimberlyClark\ShareWithKimberlyClark\Sinclair_July24_2025Update_Summer.txt
Output produced at 08:07 on 09/03/2025

$$$ DATA TYPE 1 (TITLES AND CONTROL CARDS) $$$

CARD TYPE       CONTROL TITLES

TITLE01         LA-QUAL Arkansas River Sinclair 208 limits (32C)
TITLE02         Summer WLA
CNTROL03  YES   ECHO DATA INPUT             <Warning: legacy control - line ignored>
CNTROL04  YES   INTERMEDIATE SUMMARY       <Warning: legacy control - line ignored>
CNTROL05   NO   CAPSULE SUMMARY            <Warning: legacy control - line ignored>
CNTROL06  YES   FINAL REPORT               <Warning: legacy control - line ignored>
CNTROL07   NO   LOADING SUMMARY            <Warning: legacy control - line ignored>
CNTROL08  YES   SPECIAL REPORT             <Warning: legacy control - line ignored>
CNTROL09   NO   LINE PRINTER PLOT          <Warning: legacy control - line ignored>
CNTROL10   NO   GRAPHICS CAPABILITY        <Warning: legacy control - line ignored>
CNTROL11   NO   SEQUENCING OUTPUT          <Warning: legacy control - line ignored>
CNTROL12   NO   METRIC UNITS
CNTROL13  YES   OXYGEN DEPENDENT RATES     <Warning: legacy control - line ignored>
CNTROL14   NO   SENSITIVITY ANALYSIS       <Warning: legacy control - line ignored>
CNTROL15   NO   FLOW AUGMENTATION          <Warning: legacy control - line ignored>
ENDATA01

$$$ DATA TYPE 2 (MODEL OPTIONS) $$$

CARD TYPE       MODEL OPTION

MODOPT01   NO   TEMPERATURE
MODOPT02   NO   SALINITY
MODOPT03   NO   CONSERVATIVE MATERIAL I  = Chlorides                IN mg/L     Cl
MODOPT04   NO   CONSERVATIVE MATERIAL II = Sulfates                 IN mg/L     SO4
MODOPT05  YES   DISSOLVED OXYGEN
MODOPT06  YES   BIOCHEMICAL OXYGEN DEMAND
MODOPT07  YES   NITROGEN
MODOPT08   NO   PHOSPHORUS
MODOPT09   NO   CHLOROPHYLL A
MODOPT10   NO   MACROPHYTES
MODOPT11   NO   COLIFORM
MODOPT12   NO   NONCONSERVATIVE MATERIAL =
ENDATA02

$$$ DATA TYPE 3 (PROGRAM CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                      VALUE

PROGRAM         FINAL REPORT TYPE                =         1.00000 <Warning: legacy constant - value ignored>
PROGRAM         BAROMETRIC PRESSURE (MBARS)      =      1013.25000 millibars
PROGRAM         INHIBITION CONTROL VALUE         =         4.00000 (inhibit all rates)
PROGRAM         KL MINIMUM (M/DAY)               =         0.60000 meters/day
PROGRAM         K2 MAXIMUM                       =       100.00000 per day
PROGRAM         OXYGEN DEPENDENCE THRESHOLD      =         2.00000 <Warning: legacy constant - value ignored>
PROGRAM         MACROPHYTE OXYGEN PRODUCTION     =         0.05000 mg O/mg macrophyte/day
ENDATA03

$$$ DATA TYPE 4 (TEMPERATURE CORRECTION CONSTANTS FOR RATE COEFFICIENTS) $$$

 CARD TYPE     RATE CODE     THETA VALUE
```

```
THETA        NH3 DECA       1.04700
THETA        BENTHAL        1.06000
ENDATA04

$$$ CONSTANTS TYPE 5 (TEMPERATURE DATA) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

ENDATA05

$$$ DATA TYPE 6 (ALGAE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

ENDATA06

$$$ DATA TYPE 7 (MACROPHYTE CONSTANTS) $$$

CARD TYPE       DESCRIPTION OF CONSTANT                       VALUE

ENDATA07

$$$ DATA TYPE 8 (REACH IDENTIFICATION DATA) $$$
```

CARD TYPE	REACH	ID	NAME	BEGIN REACH mi		END REACH mi	ELEM LENGTH mi	REACH LENGTH mi	ELEMS PER RCH	BEGIN ELEM NUM	END ELEM NUM
REACH ID	1	KE	Keystone to middle Dam-8 pool	539.00	TO	537.00	0.1000	2.00	20	1	20
REACH ID	2	M8	Middle of Dam-8 pool	537.00	TO	535.00	0.1000	2.00	20	21	40
REACH ID	3	L8	Lower Dam-8 pool to Dam-8	535.00	TO	534.60	0.1000	0.40	4	41	44
REACH ID	4	D8	Dam #8 to downstream	534.60	TO	534.00	0.1000	0.60	6	45	50
REACH ID	5	T7	Top of Dam-7 pool	534.00	TO	532.00	0.1000	2.00	20	51	70
REACH ID	6	M7	Middle of Dam-7 pool	532.00	TO	531.00	0.1000	1.00	10	71	80
REACH ID	7	L7	Lower Dam-7 pool	531.00	TO	530.10	0.1000	0.90	9	81	89
REACH ID	8	D7	Dam #7 to S-Springs WWTP	530.10	TO	529.00	0.1000	1.10	11	90	100
REACH ID	9	SS	S-Springs Main to downstream	529.00	TO	526.00	0.1000	3.00	30	101	130
REACH ID	10	CH	Channel u/s Sun Refinery	526.00	TO	524.00	0.1000	2.00	20	131	150
REACH ID	11	SR	Sun Refinery to Zink L pool	524.00	TO	523.00	0.1000	1.00	10	151	160
REACH ID	12	MZ	Middle of Zink Lake pool	523.00	TO	522.40	0.1000	0.60	6	161	166
REACH ID	13	LZ	Lower Zink Lake pool	522.40	TO	522.00	0.1000	0.40	4	167	170
REACH ID	14	ZD	Zink Dam and Sinclair Refinery	522.00	TO	521.70	0.1000	0.30	3	171	173
REACH ID	15	T6	Top of Dam-6 pool and PSO-Tulsa	521.70	TO	520.70	0.1000	1.00	10	174	183
REACH ID	16	M6	Middle of Dam-6 pool	520.70	TO	520.20	0.1000	0.50	5	184	188
REACH ID	17	L6	Lower Dam-6 pool	520.20	TO	520.00	0.1000	0.20	2	189	190
REACH ID	18	D6	Dam #6 and Tulsa S-Side WWTP	520.00	TO	518.00	0.1000	2.00	20	191	210
REACH ID	19	M5	Middle of Dam-5 pool	518.00	TO	517.20	0.1000	0.80	8	211	218
REACH ID	20	L5	Lower Dam-5 pool	517.20	TO	516.90	0.1000	0.30	3	219	221
REACH ID	21	D5	Dam #5 and Sapulpa WWTP dschg	516.90	TO	516.70	0.1000	0.20	2	222	223
REACH ID	22	T4	Top of Dam-4 pool	516.70	TO	515.50	0.1000	1.20	12	224	235
REACH ID	23	M4	Middle of Dam-4 pool /S. villa	515.50	TO	514.90	0.1000	0.60	6	236	241
REACH ID	24	L4	Lower Dam-4 pool	514.90	TO	514.60	0.1000	0.30	3	242	244
REACH ID	25	D4	Dam #4 and top of Dam-3 pool	514.60	TO	513.00	0.1000	1.60	16	245	260
REACH ID	26	M3	Middle of Dam-3 pool	513.00	TO	511.90	0.1000	1.10	11	261	271
REACH ID	27	L3	Lower Dam-3 pool	511.90	TO	511.60	0.1000	0.30	3	272	274
REACH ID	28	D3	Dam #3 and downstream	511.60	TO	511.20	0.1000	0.40	4	275	278
REACH ID	29	T2	Top of Dam-2 pool to Bixby N	511.20	TO	509.00	0.1000	2.20	22	279	300
REACH ID	30	M2	Middle of Dam-2 pool / Bixby N	509.00	TO	508.50	0.1000	0.50	5	301	305
REACH ID	31	L2	Lower Dam-2 pool	508.50	TO	508.30	0.1000	0.20	2	306	307
REACH ID	32	D2	Dam #2 d/stream to RMUA Haikey	508.30	TO	506.30	0.1000	2.00	20	308	327
REACH ID	33	T1	Top of Dam-1 pool / RMUA Haikey	506.30	TO	504.30	0.1000	2.00	20	328	347
REACH ID	34	M1	MIddle of Dam-1 pool	504.30	TO	502.30	0.1000	2.00	20	348	367

```
REACH ID     35   L1   Lower Dam-1 pool just u/s dam      502.30  TO  501.30   0.1000     1.00      10      368    377
REACH ID     36   X1   Lowest Dam-1 pool                  501.30  TO  501.10   0.1000     0.20       2      378    379
REACH ID     37   D1   Dam #1 d/s past BA WWTP            501.10  TO  500.00   0.1000     1.10      11      380    390
REACH ID     38   BA   Downstream of Broken Arrow STP     500.00  TO  495.00   0.1000     5.00      50      391    440
REACH ID     39   BF   Further d/s to Coweta WWTP         495.00  TO  490.00   0.1000     5.00      50      441    490
REACH ID     40   CO   Downstream of Coweta to end        490.00  TO  485.00   0.1000     5.00      50      491    540
ENDATA08

$$$ DATA TYPE 9 (ADVECTIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID       VELOCITY       VELOCITY          DEPTH          DEPTH          DEPTH         MANNINGS
                             "A"            "B"             "D"            "E"            "F"           "N"

HYDR-1         1   KE     0.60000002          0.100          0.070          0.460          0.000          0.020
HYDR-1         2   M8     0.08500000          0.300          0.200          0.300          0.000          0.020
HYDR-1         3   L8     0.00400000          0.790          0.180          0.200          0.000          0.020
HYDR-1         4   D8     1.29999995          0.000          0.042          0.480          0.000          0.020
HYDR-1         5   T7     0.17000000          0.250          0.054          0.450          0.000          0.020
HYDR-1         6   M7     0.80000001          0.100          0.080          0.400          0.000          0.020
HYDR-1         7   L7     1.29999995          0.000          0.350          0.200          0.000          0.020
HYDR-1         8   D7     0.31000000          0.200          0.061          0.400          0.000          0.020
HYDR-1         9   SS     0.23000000          0.220          0.063          0.420          0.000          0.020
HYDR-1        10   CH     0.14000000          0.300          0.280          0.250          0.000          0.020
HYDR-1        11   SR     0.00070000          0.900          1.500          0.100          0.000          0.020
HYDR-1        12   MZ     0.00040000          0.900          2.500          0.100          0.000          0.020
HYDR-1        13   LZ     0.00020000          0.940          5.000          0.050          0.000          0.020
HYDR-1        14   ZD     0.56999999          0.220          0.600          0.150          0.000          0.020
HYDR-1        15   T6     0.23999999          0.220          0.083          0.400          0.000          0.020
HYDR-1        16   M6     0.25000000          0.220          0.065          0.400          0.000          0.020
HYDR-1        17   L6     0.28999999          0.220          0.113          0.350          0.000          0.020
HYDR-1        18   D6     0.21500000          0.220          0.115          0.350          0.000          0.020
HYDR-1        19   M5     0.36000001          0.200          0.320          0.200          0.000          0.020
HYDR-1        20   L5     0.60000002          0.200          0.035          0.500          0.000          0.020
HYDR-1        21   D5     0.05200000          0.400          0.145          0.350          0.000          0.020
HYDR-1        22   T4     0.25000000          0.250          0.120          0.350          0.000          0.020
HYDR-1        23   M4     0.69999999          0.100          0.350          0.200          0.000          0.020
HYDR-1        24   L4     0.04500000          0.400          0.210          0.300          0.000          0.020
HYDR-1        25   D4     0.10500000          0.310          0.150          0.320          0.000          0.020
HYDR-1        26   M3     0.60000002          0.100          0.150          0.320          0.000          0.020
HYDR-1        27   L3     0.01600000          0.500          0.260          0.300          0.000          0.020
HYDR-1        28   D3     1.00000000          0.100          0.070          0.395          0.000          0.020
HYDR-1        29   T2     0.16300000          0.250          0.143          0.350          0.000          0.020
HYDR-1        30   M2     0.00500000          0.600          0.970          0.200          0.000          0.020
HYDR-1        31   L2     0.01000000          0.500          0.975          0.200          0.000          0.020
HYDR-1        32   D2     0.20999999          0.200          0.120          0.350          0.000          0.020
HYDR-1        33   T1     0.19000000          0.200          0.041          0.500          0.000          0.020
HYDR-1        34   M1     0.06400000          0.400          0.032          0.500          0.000          0.020
HYDR-1        35   L1     0.14800000          0.250          0.064          0.440          0.000          0.020
HYDR-1        36   X1     0.05700000          0.350          0.054          0.430          0.000          0.020
HYDR-1        37   D1     0.02400000          0.500          0.074          0.400          0.000          0.020
HYDR-1        38   BA     0.46000001          0.200          0.043          0.450          0.000          0.020
HYDR-1        39   BF     0.09000000          0.350          0.154          0.350          0.000          0.020
HYDR-1        40   CO     0.14300001          0.320          0.076          0.440          0.000          0.020
ENDATA09

$$$ DATA TYPE 10 (DISPERSIVE HYDRAULIC COEFFICIENTS) $$$

CARD TYPE  REACH  ID      TIDAL      DISPERSION      DISPERSION      DISPERSION      DISPERSION
                           RANGE         "A"             "B"             "C"             "D"

ENDATA10
```

$$$ DATA TYPE 11 (INITIAL CONDITIONS) $$$

CARD TYPE	REACH	ID	TEMP	SALIN	DO	NH3	NO3+2	PHOS	CHL A	MACRO
INITIAL	1	KE	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	2	M8	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	3	L8	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	4	D8	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	5	T7	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	6	M7	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	7	L7	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	8	D7	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	9	SS	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	10	CH	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	11	SR	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	12	MZ	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	13	LZ	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	14	ZD	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	15	T6	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	16	M6	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	17	L6	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	18	D6	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	19	M5	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	20	L5	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	21	D5	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	22	T4	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	23	M4	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	24	L4	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	25	D4	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	26	M3	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	27	L3	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	28	D3	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	29	T2	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	30	M2	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	31	L2	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	32	D2	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	33	T1	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	34	M1	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	35	L1	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	36	X1	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	37	D1	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	38	BA	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	39	BF	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00
INITIAL	40	CO	32.00	1.00	5.00	0.15	0.05	0.00	0.00	0.00

ENDATA11

$$$ DATA TYPE 12 (REAERATION, SEDIMENT OXYGEN DEMAND, BOD COEFFICIENTS) $$$

CARD TYPE	RCH NUM	RCH ID	K2 OPT		K2 "A"	K2 "B"	K2 "C"	BKGRND SOD mg/ft²/d	BOD DECAY per day	BOD SETT ft/d	BOD CONV TO SOD	ANAER BOD2 DECAY per day	BOD2 DECAY per day	BOD2 SETT ft/d	BOD2 CONV TO SOD	ANAER BOD2 DECAY per day
COEF-1	1	KE	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	2	M8	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	3	L8	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	4	D8	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	5	T7	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	6	M7	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	7	L7	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	8	D7	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	9	SS	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	10	CH	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000

COEF-1	11	SR	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	12	MZ	3	OCONNER-DOBB	0.000	0.000	0.000	70.000	0.350	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	13	LZ	3	OCONNER-DOBB	0.000	0.000	0.000	70.000	0.350	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	14	ZD	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	15	T6	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	16	M6	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	17	L6	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	18	D6	3	OCONNER-DOBB	0.000	0.000	0.000	70.000	0.400	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	19	M5	3	OCONNER-DOBB	0.000	0.000	0.000	70.000	0.350	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	20	L5	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	21	D5	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	22	T4	3	OCONNER-DOBB	0.000	0.000	0.000	70.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	23	M4	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	24	L4	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	25	D4	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	26	M3	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	27	L3	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	28	D3	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	29	T2	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	30	M2	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	31	L2	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	32	D2	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	33	T1	3	OCONNER-DOBB	0.000	0.000	0.000	70.000	0.350	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	34	M1	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	35	L1	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	36	X1	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	37	D1	3	OCONNER-DOBB	0.000	0.000	0.000	70.000	0.350	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	38	BA	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	39	BF	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000
COEF-1	40	CO	3	OCONNER-DOBB	0.000	0.000	0.000	60.000	0.300	0.100	1.000	0.000	0.000	0.000	0.000	0.000

ENDATA12

$$$ DATA TYPE 13 (NITROGEN AND PHOSPHORUS COEFFICIENTS) $$$

CARD TYPE	REACH	ID	ORG-N DECA	ORG-N SETT	ORGN CONV TO NH3 SRCE	NH3 DECA	NH3 SRCE	PHOS SRCE	DENIT RATE
COEF-2	1	KE	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	2	M8	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	3	L8	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	4	D8	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	5	T7	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	6	M7	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	7	L7	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	8	D7	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	9	SS	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	10	CH	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	11	SR	0.150	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	12	MZ	0.150	0.050	1.000	0.350	0.010	0.000	0.050
COEF-2	13	LZ	0.200	0.050	1.000	0.350	0.010	0.000	0.050
COEF-2	14	ZD	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	15	T6	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	16	M6	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	17	L6	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	18	D6	0.200	0.050	1.000	0.400	0.010	0.000	0.050
COEF-2	19	M5	0.150	0.050	1.000	0.350	0.010	0.000	0.050
COEF-2	20	L5	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	21	D5	0.100	0.050	1.000	0.350	0.010	0.000	0.050
COEF-2	22	T4	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	23	M4	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	24	L4	0.100	0.050	1.000	0.300	0.010	0.000	0.050
COEF-2	25	D4	0.100	0.050	1.000	0.300	0.010	0.000	0.050

```
COEF-2           26   M3       0.100     0.050     1.000       0.300     0.010     0.000     0.050
COEF-2           27   L3       0.100     0.050     1.000       0.300     0.010     0.000     0.050
COEF-2           28   D3       0.100     0.050     1.000       0.300     0.010     0.000     0.050
COEF-2           29   T2       0.100     0.050     1.000       0.300     0.010     0.000     0.050
COEF-2           30   M2       0.100     0.050     1.000       0.300     0.010     0.000     0.050
COEF-2           31   L2       0.100     0.050     1.000       0.300     0.010     0.000     0.050
COEF-2           32   D2       0.100     0.050     1.000       0.300     0.010     0.000     0.050
COEF-2           33   T1       0.200     0.050     1.000       0.400     0.010     0.000     0.050
COEF-2           34   M1       0.100     0.050     1.000       0.300     0.010     0.000     0.050
COEF-2           35   L1       0.100     0.050     1.000       0.300     0.010     0.000     0.050
COEF-2           36   X1       0.100     0.050     1.000       0.300     0.010     0.000     0.050
COEF-2           37   D1       0.200     0.050     1.000       0.400     0.010     0.000     0.050
COEF-2           38   BA       0.100     0.050     1.000       0.300     0.010     0.000     0.050
COEF-2           39   BF       0.100     0.050     1.000       0.300     0.010     0.000     0.050
COEF-2           40   CO       0.100     0.050     1.000       0.300     0.010     0.000     0.050
ENDATA13

$$$ DATA TYPE 14 (ALGAE AND MACROPHYTE COEFFICIENTS) $$$

CARD TYPE      REACH  ID       SECCHI    ALGAE:     ALGAE    ALG CONV     ALGAE     ALGAE     MACRO     MACRO
                               DEPTH     CHL A      SETT     TO SOD       GROW      RESP      GROW      RESP   SHADING

ENDATA14

$$$ DATA TYPE 15 (COLIFORM AND NONCONSERVATIVE COEFFICIENTS) $$$

CARD TYPE      REACH  ID    COLIFORM       NCM       NCM    NCM CONV
                            DIE-OFF     DECAY      SETT     TO SOD

ENDATA15

$$$ DATA TYPE 16 (INCREMENTAL DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE      REACH  ID       OUTFLOW      INFLOW      TEMP     SALIN      CM-I     CM-II   IN/DIST  OUT/DIST

ENDATA16

$$$ DATA TYPE 17 (INCREMENTAL DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE      REACH  ID          DO       BOD     ORG-N     NH3-N     NO3-N     BOD#2

ENDATA17

$$$ DATA TYPE 18 (INCREMENTAL DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

 CARD TYPE      REACH  ID        PHOS     CHL A      COLI       NCM

ENDATA18

$$$ DATA TYPE 19 (NONPOINT SOURCE DATA) $$$

CARD TYPE      REACH  ID       BOD#1     ORG-N      COLI       NCM        DO     BOD#2

NONPOINT         14   ZD        0.00      0.00      0.00      0.00   2901.30      0.00
ENDATA19

$$$ DATA TYPE 20 (HEADWATER FOR FLOW, TEMPERATURE, SALINITY AND CONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                 UNIT     FLOW      FLOW    TEMP    SALIN      CM-I      CM-II
                                                       m³/s       cfs   deg C      ppt      mg/L       mg/L

HDWTR-1           1     Arkansas River          0  20.00255  706.290   32.00     1.00     0.000     0.000   0.00
```

```
ENDATA20

$$$ DATA TYPE 21 (HEADWATER DATA FOR DO, BOD, AND NITROGEN) $$$

CARD TYPE     ELEMENT   NAME                        DO      BOD#1     ORG-N     NH3-N     NO3-N     BOD#2
                                                    mg/L      mg/L      mg/L      mg/L      mg/L      mg/L

HDWTR-2           1     Arkansas River             6.21      4.60      0.02      0.15      0.02      0.00
ENDATA21

$$$ DATA TYPE 22 (HEADWATER DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                       PHOS     CHL A      COLI       NCM
                                                    mg/L      mg/L      mg/L      mg/L

HDWTR-3           1     Arkansas River             0.00      0.00      0.00      0.00
ENDATA22

$$$ DATA TYPE 23 (JUNCTION DATA) $$$

CARD TYPE   JUNCTION   UPSTRM     RIVER     NAME
             ELEMENT  ELEMENT     KILOM

ENDATA23

$$$ DATA TYPE 24 (WASTELOAD DATA FOR FLOW, TEMPERATURE, SALINITY, AND CONSERVATIVES) $$$

CARD TYPE  ELEMENT    RKILO  NAME                      FLOW       FLOW      FLOW    TEMP     SALIN      CM-I      CM-II
                                                       m³/s        cfs       MGD   deg C      ppt      mg/L      mg/L

WSTLD-1       26     536.50  Sand Cr Lagoon         0.03285    1.16000     0.750   32.00     1.00     0.000     0.000
WSTLD-1      102     528.90  Sand Springs WWTP      0.24101    8.51000     5.501   32.00     1.00     0.000     0.000
WSTLD-1      148     524.30  HF Sinclair-West       0.16432    5.80211     3.751   32.00     1.00     0.000     0.000
WSTLD-1      153     523.80  11th St Storm Drain    0.00566    0.20000     0.129   32.00     1.00     0.000     0.000
WSTLD-1      165     522.60  21st St Storm Drain    0.00566    0.20000     0.129   32.00     1.00     0.000     0.000
WSTLD-1      172     521.90  Sinclair Refinery      0.07887    2.78500     1.800   32.00     1.00     0.000     0.000
WSTLD-1      174     521.70  PSO Tulsa Station      0.01756    0.62000     0.401   32.00     1.00     0.000     0.000
WSTLD-1      194     519.70  Tulsa Southside WWTP   1.83772   64.89000    41.946   32.00     1.00     0.000     0.000
WSTLD-1      223     516.80  Sapulpa WWTP           0.30671   10.83000     7.001   32.00     1.00     0.000     0.000
WSTLD-1      237     515.40  S Villa MHP Lagoon     0.00170    0.06000     0.039   32.00     1.00     0.000     0.000
WSTLD-1      257     513.40  Polecat Creek          0.53526   18.90000    12.217   32.00     1.00     0.000     0.000
WSTLD-1      266     512.50  PSO Riverside Sta      0.10960    3.87000     2.502   32.00     1.00     0.000     0.000
WSTLD-1      270     512.10  Jenks WWTP             0.08751    3.09000     1.997   32.00     1.00     0.000     0.000
WSTLD-1      273     511.80  Cogentrix Power        0.08100    2.86000     1.849   32.00     1.00     0.000     0.000
WSTLD-1      282     510.90  Glenpool WWTP          0.13141    4.64000     2.999   32.00     1.00     0.000     0.000
WSTLD-1      286     510.50  Kimberly Clark WWTP    0.16171    5.71000     3.691   32.00     1.00     0.000     0.000
WSTLD-1      301     509.00  Bixby North Lagoon     0.00000    0.00000     0.000   32.00     1.00     0.000     0.000
WSTLD-1      318     507.30  Bixby South Lagoon     0.21920    7.74000     5.003   32.00     1.00     0.000     0.000
WSTLD-1      328     506.30  RMUA Haikey Cr WWTP    0.70093   24.75000    15.999   32.00     1.00     0.000     0.000
WSTLD-1      390     500.10  Broken Arrow WWTP      0.35061   12.38000     8.003   32.00     1.00     0.000     0.000
WSTLD-1      481     491.00  Coweta WWTP            0.13141    4.64000     2.999   32.00     1.00     0.000     0.000
ENDATA24

$$$ DATA TYPE 25 (WASTELOAD DATA FOR DO, BOD, AND NITROGEN) $$$
                                                                  % BOD                          %
CARD TYPE     ELEMENT   NAME                        DO       BOD      RMVL     ORG-N     NH3-N    NITRIF     NO3-N     BOD#2
                                                    mg/L      mg/L                mg/L      mg/L                mg/L      mg/L

WSTLD-2          26     Sand Cr Lagoon             2.00     69.00      0.00      5.00      7.20      0.00      3.00      0.00
WSTLD-2         102     Sand Springs WWTP          2.00     69.00      0.00      5.00     12.00      0.00      3.00      0.00
WSTLD-2         148     HF Sinclair-West           2.00     34.50      0.00      5.00      6.25      0.00      3.00      0.00
WSTLD-2         153     11th St Storm Drain        2.00     11.50      0.00      5.00      0.50      0.00      3.00      0.00
```

```
WSTLD-2         165     21st St Storm Drain         2.00     11.50      0.00      5.00      0.50      0.00      3.00      0.00
WSTLD-2         172     Sinclair Refinery           2.00     96.60      0.00      5.00     23.60      0.00      3.00      0.00
WSTLD-2         174     PSO Tulsa Station           2.00     46.00      0.00      5.00     12.00      0.00      3.00      0.00
WSTLD-2         194     Tulsa Southside WWTP        2.00     69.00      0.00      5.00     12.00      0.00      3.00      0.00
WSTLD-2         223     Sapulpa WWTP                2.00     69.00      0.00      5.00     12.00      0.00      3.00      0.00
WSTLD-2         237     S Villa MHP Lagoon          2.00     69.00      0.00      5.00      7.20      0.00      3.00      0.00
WSTLD-2         257     Polecat Creek               5.77     11.40      0.00      5.00      1.92      0.00      3.00      0.00
WSTLD-2         266     PSO Riverside Sta           2.00     46.00      0.00      5.00     12.00      0.00      3.00      0.00
WSTLD-2         270     Jenks WWTP                  2.00     69.00      0.00      5.00     12.00      0.00      3.00      0.00
WSTLD-2         273     Cogentrix Power             6.32      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WSTLD-2         282     Glenpool WWTP               2.00     69.00      0.00      5.00      7.20      0.00      3.00      0.00
WSTLD-2         286     Kimberly Clark WWTP         2.00     94.90      0.00      5.00      4.00      0.00      3.00      0.00
WSTLD-2         301     Bixby North Lagoon          2.00     69.00      0.00      5.00      7.20      0.00      3.00      0.00
WSTLD-2         318     Bixby South Lagoon          2.00     69.00      0.00      5.00      7.20      0.00      3.00      0.00
WSTLD-2         328     RMUA Haikey Cr WWTP         2.00     69.00      0.00      5.00     12.00      0.00      3.00      0.00
WSTLD-2         390     Broken Arrow WWTP           2.00     69.00      0.00      5.00     12.00      0.00      3.00      0.00
WSTLD-2         481     Coweta WWTP                 2.00     69.00      0.00      5.00      7.20      0.00      3.00      0.00
ENDATA25

$$$ DATA TYPE 26 (WASTELOAD DATA FOR PHOSPHORUS, CHLOROPHYLL, COLIFORM, AND NONCONSERVATIVES) $$$

CARD TYPE     ELEMENT   NAME                        PHOS      CHL A      COLI       NCM
                                                    mg/L       mg/L      mg/L      mg/L

ENDATA26

$$$ DATA TYPE 27 (LOWER BOUNDARY CONDITIONS) $$$

CARD TYPE    CONSTITUENT                    CONCENTRATION

ENDATA27

$$$ DATA TYPE 28 (DAM DATA) $$$

CARD TYPE     ELEMENT   NAME                   EQN       "A"       "B"       "H"

ENDATA28

$$$ DATA TYPE 29 (SENSITIVITY ANALYSIS DATA) $$$

CARD TYPE       PARAMETER     COL 1     COL 2     COL 3     COL 4     COL 5     COL 6     COL 7     COL 8

SENSIT           HDW FLOW      10.0      25.0      50.0      75.0     -10.0     -25.0     -50.0     -75.0
SENSIT           BOD DECA      10.0      25.0      50.0      75.0     -10.0     -25.0     -50.0     -75.0
SENSIT           BOD SETT      10.0      25.0      50.0      75.0     -10.0     -25.0     -50.0     -75.0
SENSIT           NH3 DECA      10.0      25.0      50.0      75.0     -10.0     -25.0     -50.0     -75.0
ENDATA29

$$$ DATA TYPE 30 (PLOT CONTROL CARDS) $$$


NUMBER OF PLOTS =  2
NUMBER OF REACHES IN PLOT 1 =  20
PLOT RCH  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20
NUMBER OF REACHES IN PLOT 2 =  20
PLOT RCH 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34
ENDATA30

$$$ DATA TYPE 31 (OVERLAY PLOT DATA) $$$


ENDATA31
```

```
     .....NO ERRORS DETECTED IN INPUT DATA
     .....HYDRAULIC CALCULATIONS COMPLETED
     .....TRIDIAGONAL MATRIX TERMS INITIALIZED
     .....OXYGEN DEPENDENT RATES CONVERGENT IN   7 ITERATIONS
     .....CONSTITUENT CALCULATIONS COMPLETED


 SPECIAL REPORT: Arkansas River
 WATER QUALITY CONSTITUENT VALUES
```

ELEM NO.	ENDING mi	TEMP deg C	SALN ppt	Cl *	SO4 *	DO mg/L	BOD1 mg/L	BOD2 mg/L	EBOD#1 mg/L	EBOD#2 mg/L	ORG-N mg/L	NH3-N mg/L	NO3-N mg/L	TOTN mg/L	PHOS mg/L	CHL A µg/L	MACRO **	COLI #/100mL	NCM *
1	538.900	32.00	1.0	0.0	0.0	6.23	4.59	0.00	4.59	0.00	0.02	0.15	0.02	0.19	0.00	0.0	0.0	0.	0.00
2	538.800	32.00	1.0	0.0	0.0	6.25	4.57	0.00	4.57	0.00	0.02	0.15	0.02	0.19	0.00	0.0	0.0	0.	0.00
3	538.700	32.00	1.0	0.0	0.0	6.27	4.56	0.00	4.56	0.00	0.02	0.15	0.02	0.19	0.00	0.0	0.0	0.	0.00
4	538.600	32.00	1.0	0.0	0.0	6.29	4.54	0.00	4.54	0.00	0.02	0.15	0.02	0.19	0.00	0.0	0.0	0.	0.00
5	538.500	32.00	1.0	0.0	0.0	6.31	4.53	0.00	4.53	0.00	0.02	0.15	0.02	0.19	0.00	0.0	0.0	0.	0.00
6	538.400	32.00	1.0	0.0	0.0	6.33	4.51	0.00	4.51	0.00	0.02	0.15	0.02	0.19	0.00	0.0	0.0	0.	0.00
7	538.300	32.00	1.0	0.0	0.0	6.35	4.50	0.00	4.50	0.00	0.02	0.15	0.02	0.19	0.00	0.0	0.0	0.	0.00
8	538.200	32.00	1.0	0.0	0.0	6.36	4.48	0.00	4.48	0.00	0.02	0.15	0.02	0.19	0.00	0.0	0.0	0.	0.00
9	538.100	32.00	1.0	0.0	0.0	6.38	4.47	0.00	4.47	0.00	0.02	0.15	0.02	0.19	0.00	0.0	0.0	0.	0.00
10	538.000	32.00	1.0	0.0	0.0	6.39	4.45	0.00	4.45	0.00	0.02	0.15	0.02	0.19	0.00	0.0	0.0	0.	0.00
11	537.900	32.00	1.0	0.0	0.0	6.41	4.44	0.00	4.44	0.00	0.02	0.15	0.02	0.19	0.00	0.0	0.0	0.	0.00
12	537.800	32.00	1.0	0.0	0.0	6.42	4.42	0.00	4.42	0.00	0.02	0.15	0.02	0.19	0.00	0.0	0.0	0.	0.00
13	537.700	32.00	1.0	0.0	0.0	6.43	4.41	0.00	4.41	0.00	0.02	0.15	0.03	0.19	0.00	0.0	0.0	0.	0.00
14	537.600	32.00	1.0	0.0	0.0	6.45	4.40	0.00	4.40	0.00	0.02	0.14	0.03	0.19	0.00	0.0	0.0	0.	0.00
15	537.500	32.00	1.0	0.0	0.0	6.46	4.38	0.00	4.38	0.00	0.02	0.14	0.03	0.19	0.00	0.0	0.0	0.	0.00
16	537.400	32.00	1.0	0.0	0.0	6.47	4.37	0.00	4.37	0.00	0.02	0.14	0.03	0.19	0.00	0.0	0.0	0.	0.00
17	537.300	32.00	1.0	0.0	0.0	6.48	4.35	0.00	4.35	0.00	0.02	0.14	0.03	0.19	0.00	0.0	0.0	0.	0.00
18	537.200	32.00	1.0	0.0	0.0	6.49	4.34	0.00	4.34	0.00	0.02	0.14	0.03	0.19	0.00	0.0	0.0	0.	0.00
19	537.100	32.00	1.0	0.0	0.0	6.50	4.33	0.00	4.33	0.00	0.02	0.14	0.03	0.19	0.00	0.0	0.0	0.	0.00
20	537.000	32.00	1.0	0.0	0.0	6.51	4.31	0.00	4.31	0.00	0.02	0.14	0.03	0.19	0.00	0.0	0.0	0.	0.00
21	536.900	32.00	1.0	0.0	0.0	6.50	4.29	0.00	4.29	0.00	0.02	0.14	0.03	0.19	0.00	0.0	0.0	0.	0.00
22	536.800	32.00	1.0	0.0	0.0	6.50	4.26	0.00	4.26	0.00	0.02	0.14	0.03	0.19	0.00	0.0	0.0	0.	0.00
23	536.700	32.00	1.0	0.0	0.0	6.50	4.23	0.00	4.23	0.00	0.02	0.14	0.03	0.19	0.00	0.0	0.0	0.	0.00
24	536.600	32.00	1.0	0.0	0.0	6.50	4.21	0.00	4.21	0.00	0.02	0.14	0.03	0.19	0.00	0.0	0.0	0.	0.00
25	536.500	32.00	1.0	0.0	0.0	6.49	4.18	0.00	4.18	0.00	0.02	0.14	0.03	0.19	0.00	0.0	0.0	0.	0.00
26	536.400	32.00	1.0	0.0	0.0	6.48	4.26	0.00	4.26	0.00	0.03	0.15	0.04	0.21	0.00	0.0	0.0	0.	0.00
27	536.300	32.00	1.0	0.0	0.0	6.48	4.24	0.00	4.24	0.00	0.03	0.15	0.04	0.21	0.00	0.0	0.0	0.	0.00
28	536.200	32.00	1.0	0.0	0.0	6.48	4.21	0.00	4.21	0.00	0.03	0.15	0.04	0.21	0.00	0.0	0.0	0.	0.00
29	536.100	32.00	1.0	0.0	0.0	6.48	4.18	0.00	4.18	0.00	0.03	0.15	0.04	0.21	0.00	0.0	0.0	0.	0.00
30	536.000	32.00	1.0	0.0	0.0	6.48	4.16	0.00	4.16	0.00	0.03	0.15	0.04	0.21	0.00	0.0	0.0	0.	0.00
31	535.900	32.00	1.0	0.0	0.0	6.48	4.13	0.00	4.13	0.00	0.03	0.15	0.04	0.21	0.00	0.0	0.0	0.	0.00
32	535.800	32.00	1.0	0.0	0.0	6.48	4.11	0.00	4.11	0.00	0.03	0.15	0.04	0.21	0.00	0.0	0.0	0.	0.00
33	535.700	32.00	1.0	0.0	0.0	6.48	4.08	0.00	4.08	0.00	0.03	0.15	0.04	0.21	0.00	0.0	0.0	0.	0.00
34	535.600	32.00	1.0	0.0	0.0	6.48	4.06	0.00	4.06	0.00	0.03	0.14	0.04	0.21	0.00	0.0	0.0	0.	0.00
35	535.500	32.00	1.0	0.0	0.0	6.48	4.03	0.00	4.03	0.00	0.03	0.14	0.04	0.21	0.00	0.0	0.0	0.	0.00
36	535.400	32.00	1.0	0.0	0.0	6.48	4.01	0.00	4.01	0.00	0.03	0.14	0.04	0.21	0.00	0.0	0.0	0.	0.00
37	535.300	32.00	1.0	0.0	0.0	6.48	3.98	0.00	3.98	0.00	0.03	0.14	0.04	0.21	0.00	0.0	0.0	0.	0.00
38	535.200	32.00	1.0	0.0	0.0	6.48	3.96	0.00	3.96	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00
39	535.100	32.00	1.0	0.0	0.0	6.48	3.93	0.00	3.93	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00
40	535.000	32.00	1.0	0.0	0.0	6.48	3.91	0.00	3.91	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00
41	534.900	32.00	1.0	0.0	0.0	6.55	3.89	0.00	3.89	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00
42	534.800	32.00	1.0	0.0	0.0	6.61	3.86	0.00	3.86	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00
43	534.700	32.00	1.0	0.0	0.0	6.66	3.84	0.00	3.84	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00
44	534.600	32.00	1.0	0.0	0.0	6.70	3.82	0.00	3.82	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00
45	534.500	32.00	1.0	0.0	0.0	6.71	3.80	0.00	3.80	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00
46	534.400	32.00	1.0	0.0	0.0	6.73	3.79	0.00	3.79	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00

47	534.300	32.00	1.0	0.0	0.0	6.74	3.78	0.00	3.78	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00
48	534.200	32.00	1.0	0.0	0.0	6.75	3.77	0.00	3.77	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00
49	534.100	32.00	1.0	0.0	0.0	6.76	3.76	0.00	3.76	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00
50	534.000	32.00	1.0	0.0	0.0	6.77	3.75	0.00	3.75	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00
51	533.900	32.00	1.0	0.0	0.0	6.77	3.73	0.00	3.73	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00
52	533.800	32.00	1.0	0.0	0.0	6.78	3.71	0.00	3.71	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00
53	533.700	32.00	1.0	0.0	0.0	6.78	3.70	0.00	3.70	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00
54	533.600	32.00	1.0	0.0	0.0	6.78	3.68	0.00	3.68	0.00	0.03	0.14	0.05	0.21	0.00	0.0	0.0	0.	0.00
55	533.500	32.00	1.0	0.0	0.0	6.78	3.66	0.00	3.66	0.00	0.03	0.13	0.05	0.21	0.00	0.0	0.0	0.	0.00
56	533.400	32.00	1.0	0.0	0.0	6.78	3.65	0.00	3.65	0.00	0.03	0.13	0.05	0.21	0.00	0.0	0.0	0.	0.00
57	533.300	32.00	1.0	0.0	0.0	6.78	3.63	0.00	3.63	0.00	0.03	0.13	0.05	0.21	0.00	0.0	0.0	0.	0.00
58	533.200	32.00	1.0	0.0	0.0	6.78	3.61	0.00	3.61	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
59	533.100	32.00	1.0	0.0	0.0	6.78	3.60	0.00	3.60	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
60	533.000	32.00	1.0	0.0	0.0	6.78	3.58	0.00	3.58	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
61	532.900	32.00	1.0	0.0	0.0	6.78	3.56	0.00	3.56	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
62	532.800	32.00	1.0	0.0	0.0	6.79	3.55	0.00	3.55	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
63	532.700	32.00	1.0	0.0	0.0	6.79	3.53	0.00	3.53	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
64	532.600	32.00	1.0	0.0	0.0	6.79	3.52	0.00	3.52	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
65	532.500	32.00	1.0	0.0	0.0	6.79	3.50	0.00	3.50	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
66	532.400	32.00	1.0	0.0	0.0	6.79	3.48	0.00	3.48	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
67	532.300	32.00	1.0	0.0	0.0	6.79	3.47	0.00	3.47	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
68	532.200	32.00	1.0	0.0	0.0	6.79	3.45	0.00	3.45	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
69	532.100	32.00	1.0	0.0	0.0	6.79	3.44	0.00	3.44	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
70	532.000	32.00	1.0	0.0	0.0	6.79	3.42	0.00	3.42	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
71	531.900	32.00	1.0	0.0	0.0	6.80	3.41	0.00	3.41	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
72	531.800	32.00	1.0	0.0	0.0	6.81	3.40	0.00	3.40	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
73	531.700	32.00	1.0	0.0	0.0	6.81	3.40	0.00	3.40	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
74	531.600	32.00	1.0	0.0	0.0	6.82	3.39	0.00	3.39	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
75	531.500	32.00	1.0	0.0	0.0	6.82	3.38	0.00	3.38	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
76	531.400	32.00	1.0	0.0	0.0	6.83	3.37	0.00	3.37	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
77	531.300	32.00	1.0	0.0	0.0	6.83	3.36	0.00	3.36	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
78	531.200	32.00	1.0	0.0	0.0	6.84	3.35	0.00	3.35	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
79	531.100	32.00	1.0	0.0	0.0	6.84	3.34	0.00	3.34	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
80	531.000	32.00	1.0	0.0	0.0	6.84	3.34	0.00	3.34	0.00	0.03	0.13	0.06	0.21	0.00	0.0	0.0	0.	0.00
81	530.900	32.00	1.0	0.0	0.0	6.84	3.33	0.00	3.33	0.00	0.03	0.13	0.06	0.22	0.00	0.0	0.0	0.	0.00
82	530.800	32.00	1.0	0.0	0.0	6.84	3.32	0.00	3.32	0.00	0.03	0.13	0.06	0.22	0.00	0.0	0.0	0.	0.00
83	530.700	32.00	1.0	0.0	0.0	6.84	3.31	0.00	3.31	0.00	0.03	0.13	0.06	0.22	0.00	0.0	0.0	0.	0.00
84	530.600	32.00	1.0	0.0	0.0	6.84	3.30	0.00	3.30	0.00	0.03	0.12	0.06	0.22	0.00	0.0	0.0	0.	0.00
85	530.500	32.00	1.0	0.0	0.0	6.84	3.29	0.00	3.29	0.00	0.03	0.12	0.06	0.22	0.00	0.0	0.0	0.	0.00
86	530.400	32.00	1.0	0.0	0.0	6.83	3.28	0.00	3.28	0.00	0.03	0.12	0.07	0.22	0.00	0.0	0.0	0.	0.00
87	530.300	32.00	1.0	0.0	0.0	6.83	3.27	0.00	3.27	0.00	0.03	0.12	0.07	0.22	0.00	0.0	0.0	0.	0.00
88	530.200	32.00	1.0	0.0	0.0	6.83	3.26	0.00	3.26	0.00	0.03	0.12	0.07	0.22	0.00	0.0	0.0	0.	0.00
89	530.100	32.00	1.0	0.0	0.0	6.83	3.25	0.00	3.25	0.00	0.03	0.12	0.07	0.22	0.00	0.0	0.0	0.	0.00
90	530.000	32.00	1.0	0.0	0.0	6.84	3.24	0.00	3.24	0.00	0.03	0.12	0.07	0.22	0.00	0.0	0.0	0.	0.00
91	529.900	32.00	1.0	0.0	0.0	6.85	3.23	0.00	3.23	0.00	0.03	0.12	0.07	0.22	0.00	0.0	0.0	0.	0.00
92	529.800	32.00	1.0	0.0	0.0	6.86	3.21	0.00	3.21	0.00	0.03	0.12	0.07	0.22	0.00	0.0	0.0	0.	0.00
93	529.700	32.00	1.0	0.0	0.0	6.87	3.20	0.00	3.20	0.00	0.03	0.12	0.07	0.22	0.00	0.0	0.0	0.	0.00
94	529.600	32.00	1.0	0.0	0.0	6.87	3.19	0.00	3.19	0.00	0.03	0.12	0.07	0.22	0.00	0.0	0.0	0.	0.00
95	529.500	32.00	1.0	0.0	0.0	6.88	3.18	0.00	3.18	0.00	0.03	0.12	0.07	0.22	0.00	0.0	0.0	0.	0.00
96	529.400	32.00	1.0	0.0	0.0	6.88	3.17	0.00	3.17	0.00	0.03	0.12	0.07	0.22	0.00	0.0	0.0	0.	0.00
97	529.300	32.00	1.0	0.0	0.0	6.89	3.16	0.00	3.16	0.00	0.03	0.12	0.07	0.22	0.00	0.0	0.0	0.	0.00
98	529.200	32.00	1.0	0.0	0.0	6.89	3.15	0.00	3.15	0.00	0.03	0.12	0.07	0.22	0.00	0.0	0.0	0.	0.00
99	529.100	32.00	1.0	0.0	0.0	6.90	3.14	0.00	3.14	0.00	0.03	0.12	0.07	0.22	0.00	0.0	0.0	0.	0.00
100	529.000	32.00	1.0	0.0	0.0	6.90	3.12	0.00	3.12	0.00	0.03	0.12	0.07	0.22	0.00	0.0	0.0	0.	0.00
101	528.900	32.00	1.0	0.0	0.0	6.90	3.11	0.00	3.11	0.00	0.03	0.12	0.07	0.22	0.00	0.0	0.0	0.	0.00
102	528.800	32.00	1.0	0.0	0.0	6.84	3.88	0.00	3.88	0.00	0.08	0.26	0.11	0.45	0.00	0.0	0.0	0.	0.00
103	528.700	32.00	1.0	0.0	0.0	6.83	3.86	0.00	3.86	0.00	0.08	0.26	0.11	0.45	0.00	0.0	0.0	0.	0.00
104	528.600	32.00	1.0	0.0	0.0	6.83	3.85	0.00	3.85	0.00	0.08	0.26	0.11	0.45	0.00	0.0	0.0	0.	0.00
105	528.500	32.00	1.0	0.0	0.0	6.83	3.83	0.00	3.83	0.00	0.08	0.26	0.11	0.45	0.00	0.0	0.0	0.	0.00
106	528.400	32.00	1.0	0.0	0.0	6.83	3.82	0.00	3.82	0.00	0.08	0.26	0.11	0.45	0.00	0.0	0.0	0.	0.00
107	528.300	32.00	1.0	0.0	0.0	6.82	3.80	0.00	3.80	0.00	0.08	0.26	0.11	0.45	0.00	0.0	0.0	0.	0.00
108	528.200	32.00	1.0	0.0	0.0	6.82	3.78	0.00	3.78	0.00	0.08	0.26	0.11	0.45	0.00	0.0	0.0	0.	0.00

109	528.100	32.00	1.0	0.0	0.0	6.82	3.77	0.00	3.77	0.00	0.08	0.26	0.11	0.45	0.00	0.0	0.0	0.	0.00
110	528.000	32.00	1.0	0.0	0.0	6.82	3.75	0.00	3.75	0.00	0.08	0.25	0.11	0.45	0.00	0.0	0.0	0.	0.00
111	527.900	32.00	1.0	0.0	0.0	6.82	3.74	0.00	3.74	0.00	0.08	0.25	0.11	0.45	0.00	0.0	0.0	0.	0.00
112	527.800	32.00	1.0	0.0	0.0	6.82	3.72	0.00	3.72	0.00	0.08	0.25	0.11	0.45	0.00	0.0	0.0	0.	0.00
113	527.700	32.00	1.0	0.0	0.0	6.82	3.71	0.00	3.71	0.00	0.08	0.25	0.11	0.45	0.00	0.0	0.0	0.	0.00
114	527.600	32.00	1.0	0.0	0.0	6.82	3.69	0.00	3.69	0.00	0.08	0.25	0.12	0.45	0.00	0.0	0.0	0.	0.00
115	527.500	32.00	1.0	0.0	0.0	6.82	3.68	0.00	3.68	0.00	0.08	0.25	0.12	0.45	0.00	0.0	0.0	0.	0.00
116	527.400	32.00	1.0	0.0	0.0	6.82	3.66	0.00	3.66	0.00	0.08	0.25	0.12	0.45	0.00	0.0	0.0	0.	0.00
117	527.300	32.00	1.0	0.0	0.0	6.82	3.65	0.00	3.65	0.00	0.08	0.25	0.12	0.45	0.00	0.0	0.0	0.	0.00
118	527.200	32.00	1.0	0.0	0.0	6.82	3.63	0.00	3.63	0.00	0.08	0.25	0.12	0.45	0.00	0.0	0.0	0.	0.00
119	527.100	32.00	1.0	0.0	0.0	6.82	3.62	0.00	3.62	0.00	0.08	0.25	0.12	0.45	0.00	0.0	0.0	0.	0.00
120	527.000	32.00	1.0	0.0	0.0	6.82	3.60	0.00	3.60	0.00	0.08	0.25	0.12	0.45	0.00	0.0	0.0	0.	0.00
121	526.901	32.00	1.0	0.0	0.0	6.82	3.59	0.00	3.59	0.00	0.08	0.25	0.12	0.45	0.00	0.0	0.0	0.	0.00
122	526.801	32.00	1.0	0.0	0.0	6.82	3.57	0.00	3.57	0.00	0.08	0.25	0.12	0.45	0.00	0.0	0.0	0.	0.00
123	526.701	32.00	1.0	0.0	0.0	6.82	3.56	0.00	3.56	0.00	0.08	0.25	0.12	0.45	0.00	0.0	0.0	0.	0.00
124	526.601	32.00	1.0	0.0	0.0	6.82	3.55	0.00	3.55	0.00	0.08	0.25	0.12	0.45	0.00	0.0	0.0	0.	0.00
125	526.501	32.00	1.0	0.0	0.0	6.82	3.53	0.00	3.53	0.00	0.08	0.24	0.12	0.45	0.00	0.0	0.0	0.	0.00
126	526.401	32.00	1.0	0.0	0.0	6.82	3.52	0.00	3.52	0.00	0.08	0.24	0.12	0.45	0.00	0.0	0.0	0.	0.00
127	526.301	32.00	1.0	0.0	0.0	6.82	3.50	0.00	3.50	0.00	0.08	0.24	0.13	0.45	0.00	0.0	0.0	0.	0.00
128	526.201	32.00	1.0	0.0	0.0	6.82	3.49	0.00	3.49	0.00	0.08	0.24	0.13	0.45	0.00	0.0	0.0	0.	0.00
129	526.101	32.00	1.0	0.0	0.0	6.82	3.47	0.00	3.47	0.00	0.08	0.24	0.13	0.45	0.00	0.0	0.0	0.	0.00
130	526.001	32.00	1.0	0.0	0.0	6.82	3.46	0.00	3.46	0.00	0.08	0.24	0.13	0.45	0.00	0.0	0.0	0.	0.00
131	525.900	32.00	1.0	0.0	0.0	6.81	3.45	0.00	3.45	0.00	0.08	0.24	0.13	0.45	0.00	0.0	0.0	0.	0.00
132	525.800	32.00	1.0	0.0	0.0	6.80	3.43	0.00	3.43	0.00	0.08	0.24	0.13	0.45	0.00	0.0	0.0	0.	0.00
133	525.700	32.00	1.0	0.0	0.0	6.79	3.42	0.00	3.42	0.00	0.08	0.24	0.13	0.45	0.00	0.0	0.0	0.	0.00
134	525.600	32.00	1.0	0.0	0.0	6.79	3.41	0.00	3.41	0.00	0.08	0.24	0.13	0.45	0.00	0.0	0.0	0.	0.00
135	525.500	32.00	1.0	0.0	0.0	6.78	3.40	0.00	3.40	0.00	0.08	0.24	0.13	0.45	0.00	0.0	0.0	0.	0.00
136	525.400	32.00	1.0	0.0	0.0	6.77	3.38	0.00	3.38	0.00	0.08	0.24	0.13	0.45	0.00	0.0	0.0	0.	0.00
137	525.300	32.00	1.0	0.0	0.0	6.77	3.37	0.00	3.37	0.00	0.08	0.24	0.13	0.45	0.00	0.0	0.0	0.	0.00
138	525.200	32.00	1.0	0.0	0.0	6.76	3.36	0.00	3.36	0.00	0.08	0.24	0.13	0.45	0.00	0.0	0.0	0.	0.00
139	525.100	32.00	1.0	0.0	0.0	6.76	3.35	0.00	3.35	0.00	0.08	0.24	0.13	0.45	0.00	0.0	0.0	0.	0.00
140	525.000	32.00	1.0	0.0	0.0	6.75	3.33	0.00	3.33	0.00	0.08	0.23	0.13	0.45	0.00	0.0	0.0	0.	0.00
141	524.900	32.00	1.0	0.0	0.0	6.75	3.32	0.00	3.32	0.00	0.08	0.23	0.14	0.45	0.00	0.0	0.0	0.	0.00
142	524.800	32.00	1.0	0.0	0.0	6.75	3.31	0.00	3.31	0.00	0.08	0.23	0.14	0.45	0.00	0.0	0.0	0.	0.00
143	524.700	32.00	1.0	0.0	0.0	6.74	3.30	0.00	3.30	0.00	0.08	0.23	0.14	0.45	0.00	0.0	0.0	0.	0.00
144	524.600	32.00	1.0	0.0	0.0	6.74	3.28	0.00	3.28	0.00	0.08	0.23	0.14	0.45	0.00	0.0	0.0	0.	0.00
145	524.500	32.00	1.0	0.0	0.0	6.73	3.27	0.00	3.27	0.00	0.08	0.23	0.14	0.45	0.00	0.0	0.0	0.	0.00
146	524.400	32.00	1.0	0.0	0.0	6.73	3.26	0.00	3.26	0.00	0.08	0.23	0.14	0.45	0.00	0.0	0.0	0.	0.00
147	524.300	32.00	1.0	0.0	0.0	6.73	3.25	0.00	3.25	0.00	0.08	0.23	0.14	0.45	0.00	0.0	0.0	0.	0.00
148	524.200	32.00	1.0	0.0	0.0	6.69	3.49	0.00	3.49	0.00	0.12	0.28	0.16	0.56	0.00	0.0	0.0	0.	0.00
149	524.100	32.00	1.0	0.0	0.0	6.69	3.47	0.00	3.47	0.00	0.12	0.28	0.16	0.56	0.00	0.0	0.0	0.	0.00
150	524.000	32.00	1.0	0.0	0.0	6.68	3.46	0.00	3.46	0.00	0.12	0.28	0.17	0.56	0.00	0.0	0.0	0.	0.00
151	523.900	32.00	1.0	0.0	0.0	6.62	3.42	0.00	3.42	0.00	0.12	0.27	0.17	0.56	0.00	0.0	0.0	0.	0.00
152	523.800	32.00	1.0	0.0	0.0	6.55	3.37	0.00	3.37	0.00	0.12	0.27	0.17	0.56	0.00	0.0	0.0	0.	0.00
153	523.700	32.00	1.0	0.0	0.0	6.49	3.33	0.00	3.33	0.00	0.12	0.27	0.18	0.56	0.00	0.0	0.0	0.	0.00
154	523.600	32.00	1.0	0.0	0.0	6.43	3.29	0.00	3.29	0.00	0.12	0.27	0.18	0.56	0.00	0.0	0.0	0.	0.00
155	523.500	32.00	1.0	0.0	0.0	6.37	3.24	0.00	3.24	0.00	0.12	0.26	0.18	0.56	0.00	0.0	0.0	0.	0.00
156	523.400	32.00	1.0	0.0	0.0	6.32	3.20	0.00	3.20	0.00	0.12	0.26	0.19	0.56	0.00	0.0	0.0	0.	0.00
157	523.300	32.00	1.0	0.0	0.0	6.27	3.16	0.00	3.16	0.00	0.12	0.26	0.19	0.56	0.00	0.0	0.0	0.	0.00
158	523.200	32.00	1.0	0.0	0.0	6.22	3.12	0.00	3.12	0.00	0.12	0.26	0.19	0.56	0.00	0.0	0.0	0.	0.00
159	523.100	32.00	1.0	0.0	0.0	6.18	3.08	0.00	3.08	0.00	0.12	0.25	0.19	0.56	0.00	0.0	0.0	0.	0.00
160	523.000	32.00	1.0	0.0	0.0	6.13	3.04	0.00	3.04	0.00	0.11	0.25	0.20	0.56	0.00	0.0	0.0	0.	0.00
161	522.900	32.00	1.0	0.0	0.0	6.02	2.96	0.00	2.96	0.00	0.11	0.25	0.20	0.56	0.00	0.0	0.0	0.	0.00
162	522.800	32.00	1.0	0.0	0.0	5.91	2.88	0.00	2.88	0.00	0.11	0.24	0.21	0.56	0.00	0.0	0.0	0.	0.00
163	522.700	32.00	1.0	0.0	0.0	5.81	2.81	0.00	2.81	0.00	0.11	0.24	0.21	0.56	0.00	0.0	0.0	0.	0.00
164	522.600	32.00	1.0	0.0	0.0	5.71	2.74	0.00	2.74	0.00	0.11	0.23	0.22	0.56	0.00	0.0	0.0	0.	0.00
165	522.500	32.00	1.0	0.0	0.0	5.61	2.67	0.00	2.67	0.00	0.11	0.23	0.23	0.57	0.00	0.0	0.0	0.	0.00
166	522.400	32.00	1.0	0.0	0.0	5.52	2.61	0.00	2.61	0.00	0.11	0.22	0.23	0.57	0.00	0.0	0.0	0.	0.00
167	522.300	32.00	1.0	0.0	0.0	5.38	2.51	0.00	2.51	0.00	0.11	0.22	0.24	0.57	0.00	0.0	0.0	0.	0.00
168	522.200	32.00	1.0	0.0	0.0	5.26	2.41	0.00	2.41	0.00	0.11	0.21	0.25	0.57	0.00	0.0	0.0	0.	0.00
169	522.100	32.00	1.0	0.0	0.0	5.14	2.32	0.00	2.32	0.00	0.11	0.21	0.25	0.57	0.00	0.0	0.0	0.	0.00
170	522.000	32.00	1.0	0.0	0.0	5.02	2.23	0.00	2.23	0.00	0.10	0.20	0.26	0.57	0.00	0.0	0.0	0.	0.00

171	521.900	32.00	1.0	0.0	0.0	5.32	2.23	0.00	2.23	0.00	0.10	0.20	0.26	0.57	0.00	0.0	0.0	0.	0.00
172	521.800	32.00	1.0	0.0	0.0	5.59	2.59	0.00	2.59	0.00	0.12	0.29	0.27	0.69	0.00	0.0	0.0	0.	0.00
173	521.700	32.00	1.0	0.0	0.0	5.87	2.58	0.00	2.58	0.00	0.12	0.29	0.27	0.69	0.00	0.0	0.0	0.	0.00
174	521.600	32.00	1.0	0.0	0.0	5.94	2.61	0.00	2.61	0.00	0.13	0.30	0.28	0.70	0.00	0.0	0.0	0.	0.00
175	521.500	32.00	1.0	0.0	0.0	6.00	2.60	0.00	2.60	0.00	0.13	0.30	0.28	0.70	0.00	0.0	0.0	0.	0.00
176	521.400	32.00	1.0	0.0	0.0	6.06	2.59	0.00	2.59	0.00	0.13	0.30	0.28	0.70	0.00	0.0	0.0	0.	0.00
177	521.300	32.00	1.0	0.0	0.0	6.11	2.58	0.00	2.58	0.00	0.13	0.30	0.28	0.70	0.00	0.0	0.0	0.	0.00
178	521.200	32.00	1.0	0.0	0.0	6.16	2.57	0.00	2.57	0.00	0.13	0.30	0.28	0.70	0.00	0.0	0.0	0.	0.00
179	521.100	32.00	1.0	0.0	0.0	6.21	2.56	0.00	2.56	0.00	0.13	0.30	0.28	0.70	0.00	0.0	0.0	0.	0.00
180	521.000	32.00	1.0	0.0	0.0	6.25	2.55	0.00	2.55	0.00	0.13	0.30	0.28	0.70	0.00	0.0	0.0	0.	0.00
181	520.900	32.00	1.0	0.0	0.0	6.29	2.54	0.00	2.54	0.00	0.13	0.30	0.28	0.70	0.00	0.0	0.0	0.	0.00
182	520.800	32.00	1.0	0.0	0.0	6.33	2.53	0.00	2.53	0.00	0.12	0.29	0.28	0.70	0.00	0.0	0.0	0.	0.00
183	520.700	32.00	1.0	0.0	0.0	6.36	2.52	0.00	2.52	0.00	0.12	0.29	0.28	0.70	0.00	0.0	0.0	0.	0.00
184	520.600	32.00	1.0	0.0	0.0	6.42	2.51	0.00	2.51	0.00	0.12	0.29	0.28	0.70	0.00	0.0	0.0	0.	0.00
185	520.500	32.00	1.0	0.0	0.0	6.47	2.50	0.00	2.50	0.00	0.12	0.29	0.28	0.70	0.00	0.0	0.0	0.	0.00
186	520.400	32.00	1.0	0.0	0.0	6.51	2.50	0.00	2.50	0.00	0.12	0.29	0.29	0.70	0.00	0.0	0.0	0.	0.00
187	520.300	32.00	1.0	0.0	0.0	6.55	2.49	0.00	2.49	0.00	0.12	0.29	0.29	0.70	0.00	0.0	0.0	0.	0.00
188	520.200	32.00	1.0	0.0	0.0	6.58	2.48	0.00	2.48	0.00	0.12	0.29	0.29	0.70	0.00	0.0	0.0	0.	0.00
189	520.100	32.00	1.0	0.0	0.0	6.60	2.47	0.00	2.47	0.00	0.12	0.29	0.29	0.70	0.00	0.0	0.0	0.	0.00
190	520.000	32.00	1.0	0.0	0.0	6.62	2.46	0.00	2.46	0.00	0.12	0.29	0.29	0.70	0.00	0.0	0.0	0.	0.00
191	519.900	32.00	1.0	0.0	0.0	6.62	2.45	0.00	2.45	0.00	0.12	0.29	0.29	0.70	0.00	0.0	0.0	0.	0.00
192	519.800	32.00	1.0	0.0	0.0	6.63	2.43	0.00	2.43	0.00	0.12	0.29	0.29	0.70	0.00	0.0	0.0	0.	0.00
193	519.700	32.00	1.0	0.0	0.0	6.63	2.43	0.00	2.43	0.00	0.12	0.29	0.29	0.70	0.00	0.0	0.0	0.	0.00
194	519.600	32.00	1.0	0.0	0.0	6.24	7.85	0.00	7.85	0.00	0.52	1.24	0.52	2.29	0.00	0.0	0.0	0.	0.00
195	519.500	32.00	1.0	0.0	0.0	6.23	7.80	0.00	7.80	0.00	0.52	1.24	0.53	2.29	0.00	0.0	0.0	0.	0.00
196	519.400	32.00	1.0	0.0	0.0	6.22	7.76	0.00	7.76	0.00	0.52	1.23	0.53	2.29	0.00	0.0	0.0	0.	0.00
197	519.300	32.00	1.0	0.0	0.0	6.21	7.72	0.00	7.72	0.00	0.52	1.23	0.54	2.29	0.00	0.0	0.0	0.	0.00
198	519.200	32.00	1.0	0.0	0.0	6.20	7.68	0.00	7.68	0.00	0.52	1.23	0.54	2.29	0.00	0.0	0.0	0.	0.00
199	519.100	32.00	1.0	0.0	0.0	6.20	7.64	0.00	7.64	0.00	0.52	1.22	0.55	2.29	0.00	0.0	0.0	0.	0.00
200	519.000	32.00	1.0	0.0	0.0	6.19	7.60	0.00	7.60	0.00	0.52	1.22	0.55	2.29	0.00	0.0	0.0	0.	0.00
201	518.900	32.00	1.0	0.0	0.0	6.19	7.56	0.00	7.56	0.00	0.52	1.21	0.56	2.29	0.00	0.0	0.0	0.	0.00
202	518.800	32.00	1.0	0.0	0.0	6.18	7.52	0.00	7.52	0.00	0.51	1.21	0.56	2.29	0.00	0.0	0.0	0.	0.00
203	518.700	32.00	1.0	0.0	0.0	6.18	7.48	0.00	7.48	0.00	0.51	1.21	0.57	2.29	0.00	0.0	0.0	0.	0.00
204	518.600	32.00	1.0	0.0	0.0	6.17	7.44	0.00	7.44	0.00	0.51	1.20	0.57	2.29	0.00	0.0	0.0	0.	0.00
205	518.500	32.00	1.0	0.0	0.0	6.17	7.40	0.00	7.40	0.00	0.51	1.20	0.58	2.29	0.00	0.0	0.0	0.	0.00
206	518.400	32.00	1.0	0.0	0.0	6.17	7.37	0.00	7.37	0.00	0.51	1.19	0.58	2.29	0.00	0.0	0.0	0.	0.00
207	518.300	32.00	1.0	0.0	0.0	6.17	7.33	0.00	7.33	0.00	0.51	1.19	0.59	2.29	0.00	0.0	0.0	0.	0.00
208	518.200	32.00	1.0	0.0	0.0	6.16	7.29	0.00	7.29	0.00	0.51	1.18	0.59	2.29	0.00	0.0	0.0	0.	0.00
209	518.100	32.00	1.0	0.0	0.0	6.16	7.25	0.00	7.25	0.00	0.51	1.18	0.60	2.29	0.00	0.0	0.0	0.	0.00
210	518.000	32.00	1.0	0.0	0.0	6.16	7.21	0.00	7.21	0.00	0.51	1.18	0.60	2.29	0.00	0.0	0.0	0.	0.00
211	517.900	32.00	1.0	0.0	0.0	6.18	7.19	0.00	7.19	0.00	0.51	1.17	0.61	2.29	0.00	0.0	0.0	0.	0.00
212	517.800	32.00	1.0	0.0	0.0	6.19	7.17	0.00	7.17	0.00	0.50	1.17	0.61	2.29	0.00	0.0	0.0	0.	0.00
213	517.700	32.00	1.0	0.0	0.0	6.20	7.14	0.00	7.14	0.00	0.50	1.17	0.61	2.29	0.00	0.0	0.0	0.	0.00
214	517.600	32.00	1.0	0.0	0.0	6.21	7.12	0.00	7.12	0.00	0.50	1.17	0.62	2.29	0.00	0.0	0.0	0.	0.00
215	517.500	32.00	1.0	0.0	0.0	6.22	7.10	0.00	7.10	0.00	0.50	1.16	0.62	2.29	0.00	0.0	0.0	0.	0.00
216	517.400	32.00	1.0	0.0	0.0	6.23	7.07	0.00	7.07	0.00	0.50	1.16	0.62	2.29	0.00	0.0	0.0	0.	0.00
217	517.300	32.00	1.0	0.0	0.0	6.24	7.05	0.00	7.05	0.00	0.50	1.16	0.62	2.29	0.00	0.0	0.0	0.	0.00
218	517.200	32.00	1.0	0.0	0.0	6.25	7.03	0.00	7.03	0.00	0.50	1.16	0.63	2.29	0.00	0.0	0.0	0.	0.00
219	517.100	32.00	1.0	0.0	0.0	6.29	7.02	0.00	7.02	0.00	0.50	1.16	0.63	2.29	0.00	0.0	0.0	0.	0.00
220	517.000	32.00	1.0	0.0	0.0	6.32	7.00	0.00	7.00	0.00	0.50	1.15	0.63	2.29	0.00	0.0	0.0	0.	0.00
221	516.900	32.00	1.0	0.0	0.0	6.35	6.99	0.00	6.99	0.00	0.50	1.15	0.63	2.29	0.00	0.0	0.0	0.	0.00
222	516.800	32.00	1.0	0.0	0.0	6.33	6.96	0.00	6.96	0.00	0.50	1.15	0.64	2.29	0.00	0.0	0.0	0.	0.00
223	516.700	32.00	1.0	0.0	0.0	6.24	7.76	0.00	7.76	0.00	0.56	1.29	0.68	2.53	0.00	0.0	0.0	0.	0.00
224	516.600	32.00	1.0	0.0	0.0	6.25	7.74	0.00	7.74	0.00	0.56	1.29	0.68	2.53	0.00	0.0	0.0	0.	0.00
225	516.500	32.00	1.0	0.0	0.0	6.26	7.71	0.00	7.71	0.00	0.56	1.28	0.68	2.53	0.00	0.0	0.0	0.	0.00
226	516.400	32.00	1.0	0.0	0.0	6.27	7.69	0.00	7.69	0.00	0.56	1.28	0.68	2.53	0.00	0.0	0.0	0.	0.00
227	516.300	32.00	1.0	0.0	0.0	6.28	7.67	0.00	7.67	0.00	0.56	1.28	0.69	2.53	0.00	0.0	0.0	0.	0.00
228	516.200	32.00	1.0	0.0	0.0	6.28	7.65	0.00	7.65	0.00	0.56	1.28	0.69	2.53	0.00	0.0	0.0	0.	0.00
229	516.100	32.00	1.0	0.0	0.0	6.29	7.63	0.00	7.63	0.00	0.56	1.27	0.69	2.53	0.00	0.0	0.0	0.	0.00
230	516.000	32.00	1.0	0.0	0.0	6.30	7.60	0.00	7.60	0.00	0.56	1.27	0.70	2.53	0.00	0.0	0.0	0.	0.00
231	515.900	32.00	1.0	0.0	0.0	6.30	7.58	0.00	7.58	0.00	0.56	1.27	0.70	2.53	0.00	0.0	0.0	0.	0.00
232	515.800	32.00	1.0	0.0	0.0	6.31	7.56	0.00	7.56	0.00	0.56	1.27	0.70	2.53	0.00	0.0	0.0	0.	0.00

233	515.700	32.00	1.0	0.0	0.0	6.31	7.54	0.00	7.54	0.00	0.56	1.27	0.71	2.53	0.00	0.0	0.0	0.	0.00
234	515.600	32.00	1.0	0.0	0.0	6.32	7.52	0.00	7.52	0.00	0.55	1.26	0.71	2.53	0.00	0.0	0.0	0.	0.00
235	515.500	32.00	1.0	0.0	0.0	6.32	7.50	0.00	7.50	0.00	0.55	1.26	0.71	2.53	0.00	0.0	0.0	0.	0.00
236	515.400	32.00	1.0	0.0	0.0	6.33	7.47	0.00	7.47	0.00	0.55	1.26	0.71	2.53	0.00	0.0	0.0	0.	0.00
237	515.300	32.00	1.0	0.0	0.0	6.33	7.46	0.00	7.46	0.00	0.55	1.26	0.72	2.53	0.00	0.0	0.0	0.	0.00
238	515.200	32.00	1.0	0.0	0.0	6.33	7.44	0.00	7.44	0.00	0.55	1.25	0.72	2.53	0.00	0.0	0.0	0.	0.00
239	515.100	32.00	1.0	0.0	0.0	6.34	7.42	0.00	7.42	0.00	0.55	1.25	0.72	2.53	0.00	0.0	0.0	0.	0.00
240	515.000	32.00	1.0	0.0	0.0	6.34	7.40	0.00	7.40	0.00	0.55	1.25	0.73	2.53	0.00	0.0	0.0	0.	0.00
241	514.900	32.00	1.0	0.0	0.0	6.35	7.38	0.00	7.38	0.00	0.55	1.25	0.73	2.53	0.00	0.0	0.0	0.	0.00
242	514.800	32.00	1.0	0.0	0.0	6.31	7.33	0.00	7.33	0.00	0.55	1.24	0.73	2.53	0.00	0.0	0.0	0.	0.00
243	514.700	32.00	1.0	0.0	0.0	6.28	7.29	0.00	7.29	0.00	0.55	1.24	0.74	2.53	0.00	0.0	0.0	0.	0.00
244	514.600	32.00	1.0	0.0	0.0	6.25	7.25	0.00	7.25	0.00	0.55	1.23	0.75	2.53	0.00	0.0	0.0	0.	0.00
245	514.500	32.00	1.0	0.0	0.0	6.25	7.22	0.00	7.22	0.00	0.55	1.23	0.75	2.53	0.00	0.0	0.0	0.	0.00
246	514.400	32.00	1.0	0.0	0.0	6.25	7.19	0.00	7.19	0.00	0.55	1.22	0.75	2.53	0.00	0.0	0.0	0.	0.00
247	514.300	32.00	1.0	0.0	0.0	6.25	7.15	0.00	7.15	0.00	0.55	1.22	0.76	2.53	0.00	0.0	0.0	0.	0.00
248	514.200	32.00	1.0	0.0	0.0	6.25	7.12	0.00	7.12	0.00	0.55	1.22	0.76	2.53	0.00	0.0	0.0	0.	0.00
249	514.100	32.00	1.0	0.0	0.0	6.25	7.09	0.00	7.09	0.00	0.55	1.21	0.77	2.53	0.00	0.0	0.0	0.	0.00
250	514.000	32.00	1.0	0.0	0.0	6.25	7.06	0.00	7.06	0.00	0.55	1.21	0.77	2.53	0.00	0.0	0.0	0.	0.00
251	513.900	32.00	1.0	0.0	0.0	6.25	7.02	0.00	7.02	0.00	0.54	1.21	0.78	2.53	0.00	0.0	0.0	0.	0.00
252	513.800	32.00	1.0	0.0	0.0	6.25	6.99	0.00	6.99	0.00	0.54	1.20	0.78	2.53	0.00	0.0	0.0	0.	0.00
253	513.700	32.00	1.0	0.0	0.0	6.25	6.96	0.00	6.96	0.00	0.54	1.20	0.78	2.53	0.00	0.0	0.0	0.	0.00
254	513.600	32.00	1.0	0.0	0.0	6.25	6.93	0.00	6.93	0.00	0.54	1.19	0.79	2.53	0.00	0.0	0.0	0.	0.00
255	513.500	32.00	1.0	0.0	0.0	6.25	6.90	0.00	6.90	0.00	0.54	1.19	0.79	2.53	0.00	0.0	0.0	0.	0.00
256	513.400	32.00	1.0	0.0	0.0	6.25	6.87	0.00	6.87	0.00	0.54	1.19	0.80	2.53	0.00	0.0	0.0	0.	0.00
257	513.300	32.00	1.0	0.0	0.0	6.24	6.94	0.00	6.94	0.00	0.64	1.20	0.85	2.70	0.00	0.0	0.0	0.	0.00
258	513.200	32.00	1.0	0.0	0.0	6.24	6.91	0.00	6.91	0.00	0.64	1.20	0.86	2.70	0.00	0.0	0.0	0.	0.00
259	513.100	32.00	1.0	0.0	0.0	6.24	6.88	0.00	6.88	0.00	0.64	1.19	0.86	2.70	0.00	0.0	0.0	0.	0.00
260	513.000	32.00	1.0	0.0	0.0	6.25	6.84	0.00	6.84	0.00	0.64	1.19	0.87	2.70	0.00	0.0	0.0	0.	0.00
261	512.900	32.00	1.0	0.0	0.0	6.26	6.82	0.00	6.82	0.00	0.64	1.19	0.87	2.70	0.00	0.0	0.0	0.	0.00
262	512.800	32.00	1.0	0.0	0.0	6.27	6.80	0.00	6.80	0.00	0.64	1.19	0.87	2.70	0.00	0.0	0.0	0.	0.00
263	512.700	32.00	1.0	0.0	0.0	6.27	6.78	0.00	6.78	0.00	0.64	1.18	0.88	2.70	0.00	0.0	0.0	0.	0.00
264	512.600	32.00	1.0	0.0	0.0	6.28	6.76	0.00	6.76	0.00	0.64	1.18	0.88	2.70	0.00	0.0	0.0	0.	0.00
265	512.500	32.00	1.0	0.0	0.0	6.29	6.73	0.00	6.73	0.00	0.64	1.18	0.88	2.70	0.00	0.0	0.0	0.	0.00
266	512.400	32.00	1.0	0.0	0.0	6.28	6.90	0.00	6.90	0.00	0.66	1.23	0.89	2.78	0.00	0.0	0.0	0.	0.00
267	512.300	32.00	1.0	0.0	0.0	6.29	6.87	0.00	6.87	0.00	0.66	1.22	0.90	2.78	0.00	0.0	0.0	0.	0.00
268	512.200	32.00	1.0	0.0	0.0	6.29	6.85	0.00	6.85	0.00	0.66	1.22	0.90	2.78	0.00	0.0	0.0	0.	0.00
269	512.100	32.00	1.0	0.0	0.0	6.30	6.83	0.00	6.83	0.00	0.66	1.22	0.90	2.78	0.00	0.0	0.0	0.	0.00
270	512.000	32.00	1.0	0.0	0.0	6.29	7.04	0.00	7.04	0.00	0.67	1.26	0.91	2.84	0.00	0.0	0.0	0.	0.00
271	511.900	32.00	1.0	0.0	0.0	6.30	7.02	0.00	7.02	0.00	0.67	1.25	0.92	2.84	0.00	0.0	0.0	0.	0.00
272	511.800	32.00	1.0	0.0	0.0	6.23	6.96	0.00	6.96	0.00	0.67	1.25	0.93	2.84	0.00	0.0	0.0	0.	0.00
273	511.700	32.00	1.0	0.0	0.0	6.17	6.88	0.00	6.88	0.00	0.67	1.24	0.93	2.83	0.00	0.0	0.0	0.	0.00
274	511.600	32.00	1.0	0.0	0.0	6.12	6.83	0.00	6.83	0.00	0.66	1.23	0.94	2.83	0.00	0.0	0.0	0.	0.00
275	511.500	32.00	1.0	0.0	0.0	6.16	6.82	0.00	6.82	0.00	0.66	1.23	0.94	2.83	0.00	0.0	0.0	0.	0.00
276	511.400	32.00	1.0	0.0	0.0	6.20	6.80	0.00	6.80	0.00	0.66	1.23	0.94	2.83	0.00	0.0	0.0	0.	0.00
277	511.300	32.00	1.0	0.0	0.0	6.24	6.79	0.00	6.79	0.00	0.66	1.23	0.95	2.83	0.00	0.0	0.0	0.	0.00
278	511.200	32.00	1.0	0.0	0.0	6.27	6.78	0.00	6.78	0.00	0.66	1.22	0.95	2.83	0.00	0.0	0.0	0.	0.00
279	511.100	32.00	1.0	0.0	0.0	6.26	6.75	0.00	6.75	0.00	0.66	1.22	0.95	2.83	0.00	0.0	0.0	0.	0.00
280	511.000	32.00	1.0	0.0	0.0	6.25	6.72	0.00	6.72	0.00	0.66	1.22	0.96	2.83	0.00	0.0	0.0	0.	0.00
281	510.900	32.00	1.0	0.0	0.0	6.24	6.69	0.00	6.69	0.00	0.66	1.21	0.96	2.83	0.00	0.0	0.0	0.	0.00
282	510.800	32.00	1.0	0.0	0.0	6.21	7.01	0.00	7.01	0.00	0.68	1.24	0.98	2.90	0.00	0.0	0.0	0.	0.00
283	510.700	32.00	1.0	0.0	0.0	6.20	6.98	0.00	6.98	0.00	0.68	1.24	0.98	2.90	0.00	0.0	0.0	0.	0.00
284	510.600	32.00	1.0	0.0	0.0	6.20	6.95	0.00	6.95	0.00	0.68	1.24	0.98	2.90	0.00	0.0	0.0	0.	0.00
285	510.500	32.00	1.0	0.0	0.0	6.19	6.92	0.00	6.92	0.00	0.68	1.23	0.99	2.90	0.00	0.0	0.0	0.	0.00
286	510.400	32.00	1.0	0.0	0.0	6.15	7.48	0.00	7.48	0.00	0.71	1.25	1.01	2.96	0.00	0.0	0.0	0.	0.00
287	510.300	32.00	1.0	0.0	0.0	6.15	7.45	0.00	7.45	0.00	0.71	1.24	1.01	2.96	0.00	0.0	0.0	0.	0.00
288	510.200	32.00	1.0	0.0	0.0	6.14	7.42	0.00	7.42	0.00	0.71	1.24	1.01	2.96	0.00	0.0	0.0	0.	0.00
289	510.100	32.00	1.0	0.0	0.0	6.14	7.39	0.00	7.39	0.00	0.71	1.24	1.02	2.96	0.00	0.0	0.0	0.	0.00
290	510.000	32.00	1.0	0.0	0.0	6.13	7.36	0.00	7.36	0.00	0.71	1.23	1.02	2.96	0.00	0.0	0.0	0.	0.00
291	509.900	32.00	1.0	0.0	0.0	6.13	7.33	0.00	7.33	0.00	0.71	1.23	1.03	2.96	0.00	0.0	0.0	0.	0.00
292	509.800	32.00	1.0	0.0	0.0	6.12	7.30	0.00	7.30	0.00	0.70	1.23	1.03	2.96	0.00	0.0	0.0	0.	0.00
293	509.700	32.00	1.0	0.0	0.0	6.12	7.27	0.00	7.27	0.00	0.70	1.22	1.04	2.96	0.00	0.0	0.0	0.	0.00
294	509.600	32.00	1.0	0.0	0.0	6.11	7.23	0.00	7.23	0.00	0.70	1.22	1.04	2.96	0.00	0.0	0.0	0.	0.00

295	509.500	32.00	1.0	0.0	0.0	6.11	7.20	0.00	7.20	0.00	0.70	1.22	1.04	2.96	0.00	0.0	0.0	0.	0.00
296	509.400	32.00	1.0	0.0	0.0	6.11	7.17	0.00	7.17	0.00	0.70	1.21	1.05	2.96	0.00	0.0	0.0	0.	0.00
297	509.300	32.00	1.0	0.0	0.0	6.10	7.14	0.00	7.14	0.00	0.70	1.21	1.05	2.96	0.00	0.0	0.0	0.	0.00
298	509.200	32.00	1.0	0.0	0.0	6.10	7.11	0.00	7.11	0.00	0.70	1.21	1.06	2.96	0.00	0.0	0.0	0.	0.00
299	509.100	32.00	1.0	0.0	0.0	6.10	7.08	0.00	7.08	0.00	0.70	1.20	1.06	2.96	0.00	0.0	0.0	0.	0.00
300	509.000	32.00	1.0	0.0	0.0	6.10	7.05	0.00	7.05	0.00	0.70	1.20	1.07	2.96	0.00	0.0	0.0	0.	0.00
301	508.900	32.00	1.0	0.0	0.0	5.97	6.97	0.00	6.97	0.00	0.70	1.19	1.08	2.96	0.00	0.0	0.0	0.	0.00
302	508.800	32.00	1.0	0.0	0.0	5.84	6.89	0.00	6.89	0.00	0.69	1.18	1.09	2.96	0.00	0.0	0.0	0.	0.00
303	508.700	32.00	1.0	0.0	0.0	5.72	6.81	0.00	6.81	0.00	0.69	1.17	1.10	2.96	0.00	0.0	0.0	0.	0.00
304	508.600	32.00	1.0	0.0	0.0	5.61	6.73	0.00	6.73	0.00	0.69	1.16	1.11	2.96	0.00	0.0	0.0	0.	0.00
305	508.500	32.00	1.0	0.0	0.0	5.50	6.65	0.00	6.65	0.00	0.69	1.15	1.13	2.96	0.00	0.0	0.0	0.	0.00
306	508.400	32.00	1.0	0.0	0.0	5.39	6.57	0.00	6.57	0.00	0.68	1.14	1.14	2.96	0.00	0.0	0.0	0.	0.00
307	508.300	32.00	1.0	0.0	0.0	5.29	6.49	0.00	6.49	0.00	0.68	1.13	1.15	2.96	0.00	0.0	0.0	0.	0.00
308	508.200	32.00	1.0	0.0	0.0	5.37	6.46	0.00	6.46	0.00	0.68	1.13	1.15	2.96	0.00	0.0	0.0	0.	0.00
309	508.100	32.00	1.0	0.0	0.0	5.43	6.43	0.00	6.43	0.00	0.68	1.12	1.16	2.96	0.00	0.0	0.0	0.	0.00
310	508.000	32.00	1.0	0.0	0.0	5.49	6.40	0.00	6.40	0.00	0.68	1.12	1.16	2.96	0.00	0.0	0.0	0.	0.00
311	507.900	32.00	1.0	0.0	0.0	5.55	6.37	0.00	6.37	0.00	0.68	1.12	1.17	2.96	0.00	0.0	0.0	0.	0.00
312	507.800	32.00	1.0	0.0	0.0	5.61	6.34	0.00	6.34	0.00	0.68	1.12	1.17	2.96	0.00	0.0	0.0	0.	0.00
313	507.700	32.00	1.0	0.0	0.0	5.66	6.31	0.00	6.31	0.00	0.68	1.11	1.17	2.96	0.00	0.0	0.0	0.	0.00
314	507.600	32.00	1.0	0.0	0.0	5.70	6.28	0.00	6.28	0.00	0.68	1.11	1.18	2.96	0.00	0.0	0.0	0.	0.00
315	507.500	32.00	1.0	0.0	0.0	5.75	6.25	0.00	6.25	0.00	0.68	1.11	1.18	2.96	0.00	0.0	0.0	0.	0.00
316	507.400	32.00	1.0	0.0	0.0	5.79	6.22	0.00	6.22	0.00	0.67	1.10	1.19	2.96	0.00	0.0	0.0	0.	0.00
317	507.300	32.00	1.0	0.0	0.0	5.82	6.19	0.00	6.19	0.00	0.67	1.10	1.19	2.96	0.00	0.0	0.0	0.	0.00
318	507.200	32.00	1.0	0.0	0.0	5.82	6.74	0.00	6.74	0.00	0.71	1.15	1.21	3.08	0.00	0.0	0.0	0.	0.00
319	507.100	32.00	1.0	0.0	0.0	5.86	6.70	0.00	6.70	0.00	0.71	1.15	1.22	3.08	0.00	0.0	0.0	0.	0.00
320	507.000	32.00	1.0	0.0	0.0	5.88	6.67	0.00	6.67	0.00	0.71	1.14	1.22	3.08	0.00	0.0	0.0	0.	0.00
321	506.900	32.00	1.0	0.0	0.0	5.91	6.64	0.00	6.64	0.00	0.71	1.14	1.22	3.08	0.00	0.0	0.0	0.	0.00
322	506.800	32.00	1.0	0.0	0.0	5.94	6.61	0.00	6.61	0.00	0.71	1.14	1.23	3.08	0.00	0.0	0.0	0.	0.00
323	506.700	32.00	1.0	0.0	0.0	5.96	6.58	0.00	6.58	0.00	0.71	1.14	1.23	3.08	0.00	0.0	0.0	0.	0.00
324	506.600	32.00	1.0	0.0	0.0	5.99	6.55	0.00	6.55	0.00	0.71	1.13	1.24	3.08	0.00	0.0	0.0	0.	0.00
325	506.500	32.00	1.0	0.0	0.0	6.01	6.52	0.00	6.52	0.00	0.71	1.13	1.24	3.08	0.00	0.0	0.0	0.	0.00
326	506.400	32.00	1.0	0.0	0.0	6.03	6.49	0.00	6.49	0.00	0.70	1.13	1.25	3.08	0.00	0.0	0.0	0.	0.00
327	506.300	32.00	1.0	0.0	0.0	6.05	6.46	0.00	6.46	0.00	0.70	1.12	1.25	3.08	0.00	0.0	0.0	0.	0.00
328	506.200	32.00	1.0	0.0	0.0	5.93	8.18	0.00	8.18	0.00	0.82	1.42	1.31	3.56	0.00	0.0	0.0	0.	0.00
329	506.100	32.00	1.0	0.0	0.0	5.93	8.13	0.00	8.13	0.00	0.82	1.42	1.31	3.56	0.00	0.0	0.0	0.	0.00
330	506.000	32.00	1.0	0.0	0.0	5.93	8.08	0.00	8.08	0.00	0.82	1.41	1.32	3.56	0.00	0.0	0.0	0.	0.00
331	505.900	32.00	1.0	0.0	0.0	5.93	8.04	0.00	8.04	0.00	0.82	1.41	1.33	3.56	0.00	0.0	0.0	0.	0.00
332	505.800	32.00	1.0	0.0	0.0	5.93	7.99	0.00	7.99	0.00	0.81	1.40	1.34	3.56	0.00	0.0	0.0	0.	0.00
333	505.700	32.00	1.0	0.0	0.0	5.93	7.94	0.00	7.94	0.00	0.81	1.40	1.35	3.56	0.00	0.0	0.0	0.	0.00
334	505.600	32.00	1.0	0.0	0.0	5.93	7.89	0.00	7.89	0.00	0.81	1.39	1.35	3.56	0.00	0.0	0.0	0.	0.00
335	505.500	32.00	1.0	0.0	0.0	5.93	7.85	0.00	7.85	0.00	0.81	1.39	1.36	3.56	0.00	0.0	0.0	0.	0.00
336	505.400	32.00	1.0	0.0	0.0	5.93	7.80	0.00	7.80	0.00	0.81	1.38	1.37	3.56	0.00	0.0	0.0	0.	0.00
337	505.300	32.00	1.0	0.0	0.0	5.93	7.75	0.00	7.75	0.00	0.80	1.38	1.38	3.56	0.00	0.0	0.0	0.	0.00
338	505.200	32.00	1.0	0.0	0.0	5.93	7.71	0.00	7.71	0.00	0.80	1.37	1.38	3.56	0.00	0.0	0.0	0.	0.00
339	505.100	32.00	1.0	0.0	0.0	5.94	7.66	0.00	7.66	0.00	0.80	1.36	1.39	3.56	0.00	0.0	0.0	0.	0.00
340	505.000	32.00	1.0	0.0	0.0	5.94	7.62	0.00	7.62	0.00	0.80	1.36	1.40	3.56	0.00	0.0	0.0	0.	0.00
341	504.900	32.00	1.0	0.0	0.0	5.94	7.57	0.00	7.57	0.00	0.80	1.35	1.41	3.56	0.00	0.0	0.0	0.	0.00
342	504.800	32.00	1.0	0.0	0.0	5.94	7.53	0.00	7.53	0.00	0.79	1.35	1.41	3.56	0.00	0.0	0.0	0.	0.00
343	504.700	32.00	1.0	0.0	0.0	5.95	7.48	0.00	7.48	0.00	0.79	1.34	1.42	3.56	0.00	0.0	0.0	0.	0.00
344	504.600	32.00	1.0	0.0	0.0	5.95	7.44	0.00	7.44	0.00	0.79	1.34	1.43	3.56	0.00	0.0	0.0	0.	0.00
345	504.500	32.00	1.0	0.0	0.0	5.95	7.40	0.00	7.40	0.00	0.79	1.33	1.43	3.56	0.00	0.0	0.0	0.	0.00
346	504.400	32.00	1.0	0.0	0.0	5.96	7.35	0.00	7.35	0.00	0.79	1.33	1.44	3.56	0.00	0.0	0.0	0.	0.00
347	504.300	32.00	1.0	0.0	0.0	5.96	7.31	0.00	7.31	0.00	0.78	1.32	1.45	3.56	0.00	0.0	0.0	0.	0.00
348	504.200	32.00	1.0	0.0	0.0	6.02	7.28	0.00	7.28	0.00	0.78	1.32	1.45	3.56	0.00	0.0	0.0	0.	0.00
349	504.100	32.00	1.0	0.0	0.0	6.07	7.25	0.00	7.25	0.00	0.78	1.32	1.46	3.56	0.00	0.0	0.0	0.	0.00
350	504.000	32.00	1.0	0.0	0.0	6.12	7.22	0.00	7.22	0.00	0.78	1.31	1.46	3.56	0.00	0.0	0.0	0.	0.00
351	503.900	32.00	1.0	0.0	0.0	6.16	7.19	0.00	7.19	0.00	0.78	1.31	1.47	3.56	0.00	0.0	0.0	0.	0.00
352	503.800	32.00	1.0	0.0	0.0	6.20	7.16	0.00	7.16	0.00	0.78	1.31	1.47	3.56	0.00	0.0	0.0	0.	0.00
353	503.700	32.00	1.0	0.0	0.0	6.24	7.13	0.00	7.13	0.00	0.78	1.30	1.47	3.56	0.00	0.0	0.0	0.	0.00
354	503.600	32.00	1.0	0.0	0.0	6.27	7.10	0.00	7.10	0.00	0.78	1.30	1.48	3.56	0.00	0.0	0.0	0.	0.00
355	503.500	32.00	1.0	0.0	0.0	6.30	7.07	0.00	7.07	0.00	0.78	1.30	1.48	3.56	0.00	0.0	0.0	0.	0.00
356	503.400	32.00	1.0	0.0	0.0	6.32	7.04	0.00	7.04	0.00	0.78	1.29	1.49	3.56	0.00	0.0	0.0	0.	0.00

357	503.300	32.00	1.0	0.0	0.0	6.35	7.01	0.00	7.01	0.00	0.77	1.29	1.49	3.56	0.00	0.0	0.0	0.	0.00
358	503.200	32.00	1.0	0.0	0.0	6.37	6.98	0.00	6.98	0.00	0.77	1.29	1.49	3.56	0.00	0.0	0.0	0.	0.00
359	503.100	32.00	1.0	0.0	0.0	6.39	6.95	0.00	6.95	0.00	0.77	1.28	1.50	3.56	0.00	0.0	0.0	0.	0.00
360	503.000	32.00	1.0	0.0	0.0	6.41	6.92	0.00	6.92	0.00	0.77	1.28	1.50	3.56	0.00	0.0	0.0	0.	0.00
361	502.900	32.00	1.0	0.0	0.0	6.42	6.89	0.00	6.89	0.00	0.77	1.28	1.51	3.56	0.00	0.0	0.0	0.	0.00
362	502.800	32.00	1.0	0.0	0.0	6.44	6.86	0.00	6.86	0.00	0.77	1.28	1.51	3.56	0.00	0.0	0.0	0.	0.00
363	502.700	32.00	1.0	0.0	0.0	6.45	6.83	0.00	6.83	0.00	0.77	1.27	1.51	3.56	0.00	0.0	0.0	0.	0.00
364	502.600	32.00	1.0	0.0	0.0	6.46	6.80	0.00	6.80	0.00	0.77	1.27	1.52	3.56	0.00	0.0	0.0	0.	0.00
365	502.500	32.00	1.0	0.0	0.0	6.48	6.78	0.00	6.78	0.00	0.77	1.27	1.52	3.56	0.00	0.0	0.0	0.	0.00
366	502.400	32.00	1.0	0.0	0.0	6.49	6.75	0.00	6.75	0.00	0.77	1.26	1.53	3.56	0.00	0.0	0.0	0.	0.00
367	502.300	32.00	1.0	0.0	0.0	6.50	6.72	0.00	6.72	0.00	0.76	1.26	1.53	3.56	0.00	0.0	0.0	0.	0.00
368	502.200	32.00	1.0	0.0	0.0	6.48	6.69	0.00	6.69	0.00	0.76	1.26	1.54	3.56	0.00	0.0	0.0	0.	0.00
369	502.100	32.00	1.0	0.0	0.0	6.46	6.66	0.00	6.66	0.00	0.76	1.25	1.54	3.56	0.00	0.0	0.0	0.	0.00
370	502.000	32.00	1.0	0.0	0.0	6.45	6.62	0.00	6.62	0.00	0.76	1.25	1.55	3.56	0.00	0.0	0.0	0.	0.00
371	501.900	32.00	1.0	0.0	0.0	6.43	6.59	0.00	6.59	0.00	0.76	1.25	1.55	3.56	0.00	0.0	0.0	0.	0.00
372	501.800	32.00	1.0	0.0	0.0	6.42	6.56	0.00	6.56	0.00	0.76	1.24	1.55	3.56	0.00	0.0	0.0	0.	0.00
373	501.700	32.00	1.0	0.0	0.0	6.41	6.53	0.00	6.53	0.00	0.76	1.24	1.56	3.56	0.00	0.0	0.0	0.	0.00
374	501.600	32.00	1.0	0.0	0.0	6.40	6.50	0.00	6.50	0.00	0.76	1.23	1.56	3.56	0.00	0.0	0.0	0.	0.00
375	501.500	32.00	1.0	0.0	0.0	6.39	6.47	0.00	6.47	0.00	0.76	1.23	1.57	3.56	0.00	0.0	0.0	0.	0.00
376	501.400	32.00	1.0	0.0	0.0	6.38	6.44	0.00	6.44	0.00	0.76	1.23	1.57	3.56	0.00	0.0	0.0	0.	0.00
377	501.300	32.00	1.0	0.0	0.0	6.38	6.41	0.00	6.41	0.00	0.75	1.22	1.58	3.56	0.00	0.0	0.0	0.	0.00
378	501.200	32.00	1.0	0.0	0.0	6.38	6.37	0.00	6.37	0.00	0.75	1.22	1.58	3.56	0.00	0.0	0.0	0.	0.00
379	501.100	32.00	1.0	0.0	0.0	6.38	6.32	0.00	6.32	0.00	0.75	1.21	1.59	3.56	0.00	0.0	0.0	0.	0.00
380	501.000	32.00	1.0	0.0	0.0	6.36	6.29	0.00	6.29	0.00	0.75	1.21	1.60	3.56	0.00	0.0	0.0	0.	0.00
381	500.900	32.00	1.0	0.0	0.0	6.35	6.25	0.00	6.25	0.00	0.75	1.20	1.60	3.56	0.00	0.0	0.0	0.	0.00
382	500.800	32.00	1.0	0.0	0.0	6.33	6.21	0.00	6.21	0.00	0.75	1.20	1.61	3.56	0.00	0.0	0.0	0.	0.00
383	500.700	32.00	1.0	0.0	0.0	6.32	6.17	0.00	6.17	0.00	0.74	1.19	1.62	3.56	0.00	0.0	0.0	0.	0.00
384	500.600	32.00	1.0	0.0	0.0	6.31	6.13	0.00	6.13	0.00	0.74	1.19	1.62	3.56	0.00	0.0	0.0	0.	0.00
385	500.500	32.00	1.0	0.0	0.0	6.30	6.09	0.00	6.09	0.00	0.74	1.19	1.63	3.56	0.00	0.0	0.0	0.	0.00
386	500.400	32.00	1.0	0.0	0.0	6.29	6.05	0.00	6.05	0.00	0.74	1.18	1.64	3.56	0.00	0.0	0.0	0.	0.00
387	500.300	32.00	1.0	0.0	0.0	6.28	6.02	0.00	6.02	0.00	0.74	1.18	1.64	3.56	0.00	0.0	0.0	0.	0.00
388	500.200	32.00	1.0	0.0	0.0	6.27	5.98	0.00	5.98	0.00	0.73	1.17	1.65	3.56	0.00	0.0	0.0	0.	0.00
389	500.100	32.00	1.0	0.0	0.0	6.27	5.94	0.00	5.94	0.00	0.73	1.17	1.66	3.56	0.00	0.0	0.0	0.	0.00
390	500.000	32.00	1.0	0.0	0.0	6.20	6.78	0.00	6.78	0.00	0.79	1.31	1.68	3.79	0.00	0.0	0.0	0.	0.00
391	499.900	32.00	1.0	0.0	0.0	6.25	6.77	0.00	6.77	0.00	0.79	1.31	1.69	3.79	0.00	0.0	0.0	0.	0.00
392	499.800	32.00	1.0	0.0	0.0	6.29	6.75	0.00	6.75	0.00	0.79	1.31	1.69	3.79	0.00	0.0	0.0	0.	0.00
393	499.700	32.00	1.0	0.0	0.0	6.33	6.74	0.00	6.74	0.00	0.79	1.31	1.69	3.79	0.00	0.0	0.0	0.	0.00
394	499.600	32.00	1.0	0.0	0.0	6.36	6.72	0.00	6.72	0.00	0.79	1.31	1.69	3.79	0.00	0.0	0.0	0.	0.00
395	499.500	32.00	1.0	0.0	0.0	6.39	6.70	0.00	6.70	0.00	0.79	1.30	1.70	3.79	0.00	0.0	0.0	0.	0.00
396	499.400	32.00	1.0	0.0	0.0	6.42	6.69	0.00	6.69	0.00	0.79	1.30	1.70	3.79	0.00	0.0	0.0	0.	0.00
397	499.300	32.00	1.0	0.0	0.0	6.45	6.67	0.00	6.67	0.00	0.79	1.30	1.70	3.79	0.00	0.0	0.0	0.	0.00
398	499.200	32.00	1.0	0.0	0.0	6.48	6.66	0.00	6.66	0.00	0.78	1.30	1.70	3.79	0.00	0.0	0.0	0.	0.00
399	499.100	32.00	1.0	0.0	0.0	6.50	6.64	0.00	6.64	0.00	0.78	1.30	1.70	3.79	0.00	0.0	0.0	0.	0.00
400	499.000	32.00	1.0	0.0	0.0	6.52	6.63	0.00	6.63	0.00	0.78	1.30	1.71	3.79	0.00	0.0	0.0	0.	0.00
401	498.900	32.00	1.0	0.0	0.0	6.54	6.61	0.00	6.61	0.00	0.78	1.29	1.71	3.79	0.00	0.0	0.0	0.	0.00
402	498.800	32.00	1.0	0.0	0.0	6.56	6.60	0.00	6.60	0.00	0.78	1.29	1.71	3.79	0.00	0.0	0.0	0.	0.00
403	498.700	32.00	1.0	0.0	0.0	6.58	6.58	0.00	6.58	0.00	0.78	1.29	1.71	3.79	0.00	0.0	0.0	0.	0.00
404	498.600	32.00	1.0	0.0	0.0	6.60	6.57	0.00	6.57	0.00	0.78	1.29	1.72	3.79	0.00	0.0	0.0	0.	0.00
405	498.500	32.00	1.0	0.0	0.0	6.61	6.55	0.00	6.55	0.00	0.78	1.29	1.72	3.79	0.00	0.0	0.0	0.	0.00
406	498.400	32.00	1.0	0.0	0.0	6.62	6.54	0.00	6.54	0.00	0.78	1.29	1.72	3.79	0.00	0.0	0.0	0.	0.00
407	498.300	32.00	1.0	0.0	0.0	6.64	6.52	0.00	6.52	0.00	0.78	1.28	1.72	3.79	0.00	0.0	0.0	0.	0.00
408	498.200	32.00	1.0	0.0	0.0	6.65	6.51	0.00	6.51	0.00	0.78	1.28	1.72	3.79	0.00	0.0	0.0	0.	0.00
409	498.100	32.00	1.0	0.0	0.0	6.66	6.49	0.00	6.49	0.00	0.78	1.28	1.73	3.79	0.00	0.0	0.0	0.	0.00
410	498.000	32.00	1.0	0.0	0.0	6.67	6.48	0.00	6.48	0.00	0.78	1.28	1.73	3.79	0.00	0.0	0.0	0.	0.00
411	497.900	32.00	1.0	0.0	0.0	6.68	6.47	0.00	6.47	0.00	0.78	1.28	1.73	3.79	0.00	0.0	0.0	0.	0.00
412	497.800	32.00	1.0	0.0	0.0	6.69	6.45	0.00	6.45	0.00	0.78	1.28	1.73	3.79	0.00	0.0	0.0	0.	0.00
413	497.700	32.00	1.0	0.0	0.0	6.69	6.44	0.00	6.44	0.00	0.78	1.27	1.74	3.79	0.00	0.0	0.0	0.	0.00
414	497.600	32.00	1.0	0.0	0.0	6.70	6.42	0.00	6.42	0.00	0.78	1.27	1.74	3.79	0.00	0.0	0.0	0.	0.00
415	497.500	32.00	1.0	0.0	0.0	6.71	6.41	0.00	6.41	0.00	0.78	1.27	1.74	3.79	0.00	0.0	0.0	0.	0.00
416	497.400	32.00	1.0	0.0	0.0	6.72	6.39	0.00	6.39	0.00	0.78	1.27	1.74	3.79	0.00	0.0	0.0	0.	0.00
417	497.300	32.00	1.0	0.0	0.0	6.72	6.38	0.00	6.38	0.00	0.77	1.27	1.74	3.79	0.00	0.0	0.0	0.	0.00
418	497.200	32.00	1.0	0.0	0.0	6.73	6.36	0.00	6.36	0.00	0.77	1.27	1.75	3.79	0.00	0.0	0.0	0.	0.00

419	497.100	32.00	1.0	0.0	0.0	6.73	6.35	0.00	6.35	0.00	0.77	1.26	1.75	3.79	0.00	0.0	0.0	0.	0.00
420	497.000	32.00	1.0	0.0	0.0	6.74	6.33	0.00	6.33	0.00	0.77	1.26	1.75	3.79	0.00	0.0	0.0	0.	0.00
421	496.900	32.00	1.0	0.0	0.0	6.74	6.32	0.00	6.32	0.00	0.77	1.26	1.75	3.79	0.00	0.0	0.0	0.	0.00
422	496.800	32.00	1.0	0.0	0.0	6.74	6.31	0.00	6.31	0.00	0.77	1.26	1.75	3.79	0.00	0.0	0.0	0.	0.00
423	496.700	32.00	1.0	0.0	0.0	6.75	6.29	0.00	6.29	0.00	0.77	1.26	1.76	3.79	0.00	0.0	0.0	0.	0.00
424	496.600	32.00	1.0	0.0	0.0	6.75	6.28	0.00	6.28	0.00	0.77	1.26	1.76	3.79	0.00	0.0	0.0	0.	0.00
425	496.500	32.00	1.0	0.0	0.0	6.76	6.26	0.00	6.26	0.00	0.77	1.25	1.76	3.79	0.00	0.0	0.0	0.	0.00
426	496.400	32.00	1.0	0.0	0.0	6.76	6.25	0.00	6.25	0.00	0.77	1.25	1.76	3.79	0.00	0.0	0.0	0.	0.00
427	496.300	32.00	1.0	0.0	0.0	6.76	6.23	0.00	6.23	0.00	0.77	1.25	1.77	3.79	0.00	0.0	0.0	0.	0.00
428	496.200	32.00	1.0	0.0	0.0	6.76	6.22	0.00	6.22	0.00	0.77	1.25	1.77	3.79	0.00	0.0	0.0	0.	0.00
429	496.100	32.00	1.0	0.0	0.0	6.77	6.21	0.00	6.21	0.00	0.77	1.25	1.77	3.79	0.00	0.0	0.0	0.	0.00
430	496.000	32.00	1.0	0.0	0.0	6.77	6.19	0.00	6.19	0.00	0.77	1.25	1.77	3.79	0.00	0.0	0.0	0.	0.00
431	495.900	32.00	1.0	0.0	0.0	6.77	6.18	0.00	6.18	0.00	0.77	1.24	1.77	3.79	0.00	0.0	0.0	0.	0.00
432	495.800	32.00	1.0	0.0	0.0	6.77	6.16	0.00	6.16	0.00	0.77	1.24	1.78	3.79	0.00	0.0	0.0	0.	0.00
433	495.700	32.00	1.0	0.0	0.0	6.78	6.15	0.00	6.15	0.00	0.77	1.24	1.78	3.79	0.00	0.0	0.0	0.	0.00
434	495.600	32.00	1.0	0.0	0.0	6.78	6.14	0.00	6.14	0.00	0.77	1.24	1.78	3.79	0.00	0.0	0.0	0.	0.00
435	495.500	32.00	1.0	0.0	0.0	6.78	6.12	0.00	6.12	0.00	0.77	1.24	1.78	3.79	0.00	0.0	0.0	0.	0.00
436	495.400	32.00	1.0	0.0	0.0	6.78	6.11	0.00	6.11	0.00	0.76	1.24	1.78	3.79	0.00	0.0	0.0	0.	0.00
437	495.300	32.00	1.0	0.0	0.0	6.78	6.09	0.00	6.09	0.00	0.76	1.23	1.79	3.79	0.00	0.0	0.0	0.	0.00
438	495.200	32.00	1.0	0.0	0.0	6.78	6.08	0.00	6.08	0.00	0.76	1.23	1.79	3.79	0.00	0.0	0.0	0.	0.00
439	495.100	32.00	1.0	0.0	0.0	6.79	6.07	0.00	6.07	0.00	0.76	1.23	1.79	3.79	0.00	0.0	0.0	0.	0.00
440	495.000	32.00	1.0	0.0	0.0	6.79	6.05	0.00	6.05	0.00	0.76	1.23	1.79	3.79	0.00	0.0	0.0	0.	0.00
441	494.900	32.00	1.0	0.0	0.0	6.75	6.03	0.00	6.03	0.00	0.76	1.23	1.80	3.79	0.00	0.0	0.0	0.	0.00
442	494.800	32.00	1.0	0.0	0.0	6.72	6.01	0.00	6.01	0.00	0.76	1.22	1.80	3.79	0.00	0.0	0.0	0.	0.00
443	494.700	32.00	1.0	0.0	0.0	6.70	5.98	0.00	5.98	0.00	0.76	1.22	1.80	3.79	0.00	0.0	0.0	0.	0.00
444	494.600	32.00	1.0	0.0	0.0	6.67	5.96	0.00	5.96	0.00	0.76	1.22	1.81	3.79	0.00	0.0	0.0	0.	0.00
445	494.500	32.00	1.0	0.0	0.0	6.64	5.94	0.00	5.94	0.00	0.76	1.21	1.81	3.79	0.00	0.0	0.0	0.	0.00
446	494.400	32.00	1.0	0.0	0.0	6.62	5.92	0.00	5.92	0.00	0.76	1.21	1.82	3.79	0.00	0.0	0.0	0.	0.00
447	494.300	32.00	1.0	0.0	0.0	6.59	5.89	0.00	5.89	0.00	0.76	1.21	1.82	3.79	0.00	0.0	0.0	0.	0.00
448	494.200	32.00	1.0	0.0	0.0	6.57	5.87	0.00	5.87	0.00	0.76	1.21	1.82	3.79	0.00	0.0	0.0	0.	0.00
449	494.100	32.00	1.0	0.0	0.0	6.55	5.85	0.00	5.85	0.00	0.76	1.20	1.83	3.79	0.00	0.0	0.0	0.	0.00
450	494.000	32.00	1.0	0.0	0.0	6.53	5.83	0.00	5.83	0.00	0.75	1.20	1.83	3.79	0.00	0.0	0.0	0.	0.00
451	493.900	32.00	1.0	0.0	0.0	6.51	5.81	0.00	5.81	0.00	0.75	1.20	1.84	3.79	0.00	0.0	0.0	0.	0.00
452	493.800	32.00	1.0	0.0	0.0	6.49	5.78	0.00	5.78	0.00	0.75	1.19	1.84	3.79	0.00	0.0	0.0	0.	0.00
453	493.700	32.00	1.0	0.0	0.0	6.47	5.76	0.00	5.76	0.00	0.75	1.19	1.84	3.79	0.00	0.0	0.0	0.	0.00
454	493.600	32.00	1.0	0.0	0.0	6.46	5.74	0.00	5.74	0.00	0.75	1.19	1.85	3.79	0.00	0.0	0.0	0.	0.00
455	493.500	32.00	1.0	0.0	0.0	6.44	5.72	0.00	5.72	0.00	0.75	1.18	1.85	3.79	0.00	0.0	0.0	0.	0.00
456	493.400	32.00	1.0	0.0	0.0	6.43	5.70	0.00	5.70	0.00	0.75	1.18	1.85	3.79	0.00	0.0	0.0	0.	0.00
457	493.300	32.00	1.0	0.0	0.0	6.41	5.67	0.00	5.67	0.00	0.75	1.18	1.86	3.79	0.00	0.0	0.0	0.	0.00
458	493.200	32.00	1.0	0.0	0.0	6.40	5.65	0.00	5.65	0.00	0.75	1.18	1.86	3.79	0.00	0.0	0.0	0.	0.00
459	493.100	32.00	1.0	0.0	0.0	6.39	5.63	0.00	5.63	0.00	0.75	1.17	1.87	3.79	0.00	0.0	0.0	0.	0.00
460	493.000	32.00	1.0	0.0	0.0	6.37	5.61	0.00	5.61	0.00	0.75	1.17	1.87	3.79	0.00	0.0	0.0	0.	0.00
461	492.900	32.00	1.0	0.0	0.0	6.36	5.59	0.00	5.59	0.00	0.75	1.17	1.87	3.79	0.00	0.0	0.0	0.	0.00
462	492.800	32.00	1.0	0.0	0.0	6.35	5.57	0.00	5.57	0.00	0.74	1.16	1.88	3.79	0.00	0.0	0.0	0.	0.00
463	492.700	32.00	1.0	0.0	0.0	6.34	5.55	0.00	5.55	0.00	0.74	1.16	1.88	3.79	0.00	0.0	0.0	0.	0.00
464	492.600	32.00	1.0	0.0	0.0	6.33	5.53	0.00	5.53	0.00	0.74	1.16	1.88	3.79	0.00	0.0	0.0	0.	0.00
465	492.500	32.00	1.0	0.0	0.0	6.32	5.51	0.00	5.51	0.00	0.74	1.16	1.89	3.79	0.00	0.0	0.0	0.	0.00
466	492.400	32.00	1.0	0.0	0.0	6.32	5.48	0.00	5.48	0.00	0.74	1.15	1.89	3.79	0.00	0.0	0.0	0.	0.00
467	492.300	32.00	1.0	0.0	0.0	6.31	5.46	0.00	5.46	0.00	0.74	1.15	1.89	3.79	0.00	0.0	0.0	0.	0.00
468	492.200	32.00	1.0	0.0	0.0	6.30	5.44	0.00	5.44	0.00	0.74	1.15	1.90	3.79	0.00	0.0	0.0	0.	0.00
469	492.100	32.00	1.0	0.0	0.0	6.29	5.42	0.00	5.42	0.00	0.74	1.14	1.90	3.79	0.00	0.0	0.0	0.	0.00
470	492.000	32.00	1.0	0.0	0.0	6.29	5.40	0.00	5.40	0.00	0.74	1.14	1.91	3.79	0.00	0.0	0.0	0.	0.00
471	491.900	32.00	1.0	0.0	0.0	6.28	5.38	0.00	5.38	0.00	0.74	1.14	1.91	3.79	0.00	0.0	0.0	0.	0.00
472	491.800	32.00	1.0	0.0	0.0	6.28	5.36	0.00	5.36	0.00	0.74	1.14	1.91	3.79	0.00	0.0	0.0	0.	0.00
473	491.700	32.00	1.0	0.0	0.0	6.27	5.34	0.00	5.34	0.00	0.74	1.13	1.92	3.79	0.00	0.0	0.0	0.	0.00
474	491.600	32.00	1.0	0.0	0.0	6.27	5.32	0.00	5.32	0.00	0.74	1.13	1.92	3.79	0.00	0.0	0.0	0.	0.00
475	491.500	32.00	1.0	0.0	0.0	6.26	5.30	0.00	5.30	0.00	0.73	1.13	1.92	3.79	0.00	0.0	0.0	0.	0.00
476	491.400	32.00	1.0	0.0	0.0	6.26	5.28	0.00	5.28	0.00	0.73	1.13	1.93	3.79	0.00	0.0	0.0	0.	0.00
477	491.300	32.00	1.0	0.0	0.0	6.25	5.26	0.00	5.26	0.00	0.73	1.12	1.93	3.79	0.00	0.0	0.0	0.	0.00
478	491.200	32.00	1.0	0.0	0.0	6.25	5.24	0.00	5.24	0.00	0.73	1.12	1.93	3.79	0.00	0.0	0.0	0.	0.00
479	491.100	32.00	1.0	0.0	0.0	6.24	5.22	0.00	5.22	0.00	0.73	1.12	1.94	3.79	0.00	0.0	0.0	0.	0.00
480	491.000	32.00	1.0	0.0	0.0	6.24	5.20	0.00	5.20	0.00	0.73	1.11	1.94	3.79	0.00	0.0	0.0	0.	0.00

481	490.900	32.00	1.0	0.0	0.0	6.22	5.51	0.00	5.51	0.00	0.75	1.14	1.95	3.85	0.00	0.0	0.0	0.	0.00
482	490.800	32.00	1.0	0.0	0.0	6.21	5.49	0.00	5.49	0.00	0.75	1.14	1.95	3.85	0.00	0.0	0.0	0.	0.00
483	490.700	32.00	1.0	0.0	0.0	6.21	5.47	0.00	5.47	0.00	0.75	1.14	1.96	3.85	0.00	0.0	0.0	0.	0.00
484	490.600	32.00	1.0	0.0	0.0	6.21	5.45	0.00	5.45	0.00	0.75	1.13	1.96	3.85	0.00	0.0	0.0	0.	0.00
485	490.500	32.00	1.0	0.0	0.0	6.20	5.43	0.00	5.43	0.00	0.75	1.13	1.96	3.85	0.00	0.0	0.0	0.	0.00
486	490.400	32.00	1.0	0.0	0.0	6.20	5.41	0.00	5.41	0.00	0.75	1.13	1.97	3.85	0.00	0.0	0.0	0.	0.00
487	490.300	32.00	1.0	0.0	0.0	6.20	5.39	0.00	5.39	0.00	0.75	1.13	1.97	3.85	0.00	0.0	0.0	0.	0.00
488	490.200	32.00	1.0	0.0	0.0	6.20	5.37	0.00	5.37	0.00	0.75	1.12	1.97	3.85	0.00	0.0	0.0	0.	0.00
489	490.100	32.00	1.0	0.0	0.0	6.20	5.35	0.00	5.35	0.00	0.75	1.12	1.98	3.85	0.00	0.0	0.0	0.	0.00
490	490.000	32.00	1.0	0.0	0.0	6.19	5.33	0.00	5.33	0.00	0.75	1.12	1.98	3.85	0.00	0.0	0.0	0.	0.00
491	489.900	32.00	1.0	0.0	0.0	6.20	5.31	0.00	5.31	0.00	0.74	1.12	1.98	3.85	0.00	0.0	0.0	0.	0.00
492	489.800	32.00	1.0	0.0	0.0	6.21	5.30	0.00	5.30	0.00	0.74	1.11	1.99	3.85	0.00	0.0	0.0	0.	0.00
493	489.700	32.00	1.0	0.0	0.0	6.22	5.28	0.00	5.28	0.00	0.74	1.11	1.99	3.85	0.00	0.0	0.0	0.	0.00
494	489.600	32.00	1.0	0.0	0.0	6.23	5.27	0.00	5.27	0.00	0.74	1.11	1.99	3.85	0.00	0.0	0.0	0.	0.00
495	489.500	32.00	1.0	0.0	0.0	6.24	5.25	0.00	5.25	0.00	0.74	1.11	2.00	3.85	0.00	0.0	0.0	0.	0.00
496	489.400	32.00	1.0	0.0	0.0	6.24	5.23	0.00	5.23	0.00	0.74	1.11	2.00	3.85	0.00	0.0	0.0	0.	0.00
497	489.300	32.00	1.0	0.0	0.0	6.25	5.22	0.00	5.22	0.00	0.74	1.10	2.00	3.85	0.00	0.0	0.0	0.	0.00
498	489.200	32.00	1.0	0.0	0.0	6.26	5.20	0.00	5.20	0.00	0.74	1.10	2.00	3.85	0.00	0.0	0.0	0.	0.00
499	489.100	32.00	1.0	0.0	0.0	6.26	5.19	0.00	5.19	0.00	0.74	1.10	2.01	3.85	0.00	0.0	0.0	0.	0.00
500	489.000	32.00	1.0	0.0	0.0	6.27	5.17	0.00	5.17	0.00	0.74	1.10	2.01	3.85	0.00	0.0	0.0	0.	0.00
501	488.900	32.00	1.0	0.0	0.0	6.28	5.16	0.00	5.16	0.00	0.74	1.10	2.01	3.85	0.00	0.0	0.0	0.	0.00
502	488.800	32.00	1.0	0.0	0.0	6.28	5.14	0.00	5.14	0.00	0.74	1.09	2.01	3.85	0.00	0.0	0.0	0.	0.00
503	488.700	32.00	1.0	0.0	0.0	6.29	5.13	0.00	5.13	0.00	0.74	1.09	2.02	3.85	0.00	0.0	0.0	0.	0.00
504	488.600	32.00	1.0	0.0	0.0	6.29	5.11	0.00	5.11	0.00	0.74	1.09	2.02	3.85	0.00	0.0	0.0	0.	0.00
505	488.500	32.00	1.0	0.0	0.0	6.30	5.10	0.00	5.10	0.00	0.74	1.09	2.02	3.85	0.00	0.0	0.0	0.	0.00
506	488.400	32.00	1.0	0.0	0.0	6.30	5.08	0.00	5.08	0.00	0.74	1.09	2.02	3.85	0.00	0.0	0.0	0.	0.00
507	488.300	32.00	1.0	0.0	0.0	6.31	5.07	0.00	5.07	0.00	0.73	1.08	2.03	3.85	0.00	0.0	0.0	0.	0.00
508	488.200	32.00	1.0	0.0	0.0	6.31	5.05	0.00	5.05	0.00	0.73	1.08	2.03	3.85	0.00	0.0	0.0	0.	0.00
509	488.100	32.00	1.0	0.0	0.0	6.32	5.04	0.00	5.04	0.00	0.73	1.08	2.03	3.85	0.00	0.0	0.0	0.	0.00
510	488.000	32.00	1.0	0.0	0.0	6.32	5.02	0.00	5.02	0.00	0.73	1.08	2.03	3.85	0.00	0.0	0.0	0.	0.00
511	487.900	32.00	1.0	0.0	0.0	6.33	5.01	0.00	5.01	0.00	0.73	1.08	2.04	3.85	0.00	0.0	0.0	0.	0.00
512	487.800	32.00	1.0	0.0	0.0	6.33	4.99	0.00	4.99	0.00	0.73	1.07	2.04	3.85	0.00	0.0	0.0	0.	0.00
513	487.700	32.00	1.0	0.0	0.0	6.34	4.98	0.00	4.98	0.00	0.73	1.07	2.04	3.85	0.00	0.0	0.0	0.	0.00
514	487.600	32.00	1.0	0.0	0.0	6.34	4.96	0.00	4.96	0.00	0.73	1.07	2.05	3.85	0.00	0.0	0.0	0.	0.00
515	487.500	32.00	1.0	0.0	0.0	6.34	4.95	0.00	4.95	0.00	0.73	1.07	2.05	3.85	0.00	0.0	0.0	0.	0.00
516	487.400	32.00	1.0	0.0	0.0	6.35	4.93	0.00	4.93	0.00	0.73	1.07	2.05	3.85	0.00	0.0	0.0	0.	0.00
517	487.300	32.00	1.0	0.0	0.0	6.35	4.92	0.00	4.92	0.00	0.73	1.06	2.05	3.85	0.00	0.0	0.0	0.	0.00
518	487.200	32.00	1.0	0.0	0.0	6.36	4.91	0.00	4.91	0.00	0.73	1.06	2.06	3.85	0.00	0.0	0.0	0.	0.00
519	487.100	32.00	1.0	0.0	0.0	6.36	4.89	0.00	4.89	0.00	0.73	1.06	2.06	3.85	0.00	0.0	0.0	0.	0.00
520	487.000	32.00	1.0	0.0	0.0	6.36	4.88	0.00	4.88	0.00	0.73	1.06	2.06	3.85	0.00	0.0	0.0	0.	0.00
521	486.900	32.00	1.0	0.0	0.0	6.37	4.86	0.00	4.86	0.00	0.73	1.06	2.06	3.85	0.00	0.0	0.0	0.	0.00
522	486.800	32.00	1.0	0.0	0.0	6.37	4.85	0.00	4.85	0.00	0.73	1.05	2.07	3.85	0.00	0.0	0.0	0.	0.00
523	486.700	32.00	1.0	0.0	0.0	6.37	4.83	0.00	4.83	0.00	0.73	1.05	2.07	3.85	0.00	0.0	0.0	0.	0.00
524	486.600	32.00	1.0	0.0	0.0	6.37	4.82	0.00	4.82	0.00	0.72	1.05	2.07	3.85	0.00	0.0	0.0	0.	0.00
525	486.500	32.00	1.0	0.0	0.0	6.38	4.80	0.00	4.80	0.00	0.72	1.05	2.07	3.85	0.00	0.0	0.0	0.	0.00
526	486.400	32.00	1.0	0.0	0.0	6.38	4.79	0.00	4.79	0.00	0.72	1.05	2.08	3.85	0.00	0.0	0.0	0.	0.00
527	486.300	32.00	1.0	0.0	0.0	6.38	4.78	0.00	4.78	0.00	0.72	1.04	2.08	3.85	0.00	0.0	0.0	0.	0.00
528	486.200	32.00	1.0	0.0	0.0	6.39	4.76	0.00	4.76	0.00	0.72	1.04	2.08	3.85	0.00	0.0	0.0	0.	0.00
529	486.100	32.00	1.0	0.0	0.0	6.39	4.75	0.00	4.75	0.00	0.72	1.04	2.08	3.85	0.00	0.0	0.0	0.	0.00
530	486.000	32.00	1.0	0.0	0.0	6.39	4.73	0.00	4.73	0.00	0.72	1.04	2.09	3.85	0.00	0.0	0.0	0.	0.00
531	485.900	32.00	1.0	0.0	0.0	6.39	4.72	0.00	4.72	0.00	0.72	1.04	2.09	3.85	0.00	0.0	0.0	0.	0.00
532	485.800	32.00	1.0	0.0	0.0	6.40	4.71	0.00	4.71	0.00	0.72	1.03	2.09	3.85	0.00	0.0	0.0	0.	0.00
533	485.700	32.00	1.0	0.0	0.0	6.40	4.69	0.00	4.69	0.00	0.72	1.03	2.09	3.85	0.00	0.0	0.0	0.	0.00
534	485.600	32.00	1.0	0.0	0.0	6.40	4.68	0.00	4.68	0.00	0.72	1.03	2.10	3.85	0.00	0.0	0.0	0.	0.00
535	485.500	32.00	1.0	0.0	0.0	6.40	4.66	0.00	4.66	0.00	0.72	1.03	2.10	3.85	0.00	0.0	0.0	0.	0.00
536	485.400	32.00	1.0	0.0	0.0	6.41	4.65	0.00	4.65	0.00	0.72	1.03	2.10	3.85	0.00	0.0	0.0	0.	0.00
537	485.300	32.00	1.0	0.0	0.0	6.41	4.64	0.00	4.64	0.00	0.72	1.03	2.10	3.85	0.00	0.0	0.0	0.	0.00
538	485.200	32.00	1.0	0.0	0.0	6.41	4.62	0.00	4.62	0.00	0.72	1.02	2.11	3.85	0.00	0.0	0.0	0.	0.00
539	485.100	32.00	1.0	0.0	0.0	6.41	4.61	0.00	4.61	0.00	0.72	1.02	2.11	3.85	0.00	0.0	0.0	0.	0.00
540	485.000	32.00	1.0	0.0	0.0	6.41	4.59	0.00	4.59	0.00	0.71	1.02	2.11	3.84	0.00	0.0	0.0	0.	0.00

SPECIAL REPORT: Arkansas River
BIOLOGICAL AND PHYSICAL COEFFICIENTS

ELEM NO.	ENDING DIST mi	SAT D.O. mg/L	REAER RATE 1/da	BOD#1 DECAY 1/da	BOD#1 SETT 1/da	ABOD#1 DECAY 1/da	BOD#1 DECAY 1/da	BOD#2 SETT 1/da	ABOD#2 DECAY 1/da	FULL SOD *	CORR SOD *	ORG-N DECAY 1/da	ORG-N SETT 1/da	NH3 DECAY 1/da	NH3 SRCE *	DENIT RATE 1/da	PO4 SRCE *	ALG PROD **	MAC PROD **	COLI DECAY 1/da	NCM DECAY 1/da	NCM SETT 1/da
1	538.900	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00138	00138.00		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	538.800	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	94137.94		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	538.700	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	88137.88		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	538.600	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	83137.83		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	538.500	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	77137.77		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	538.400	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	72137.72		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	538.300	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	66137.66		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	538.200	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	61137.61		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	538.100	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	55137.55		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	538.000	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	50137.50		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	537.900	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	45137.45		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	537.800	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	39137.39		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	537.700	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	34137.34		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	537.600	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	28137.28		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	537.500	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	23137.23		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	537.400	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	18137.18		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	537.300	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	12137.12		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	537.200	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	07137.07		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	537.100	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00137	02137.02		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	537.000	7.27	10.08	0.52	0.09	0.00	0.00	0.00	0.00136	97136.97		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	536.900	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00136	87136.87		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	536.800	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00136	77136.77		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	536.700	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00136	67136.67		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	536.600	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00136	57136.57		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	536.500	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00136	47136.47		0.13	0.05	0.50	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	536.400	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00136	78136.78		0.13	0.05	0.50	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	536.300	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00136	68136.68		0.13	0.05	0.50	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	536.200	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00136	58136.58		0.13	0.05	0.50	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	536.100	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00136	48136.48		0.13	0.05	0.50	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	536.000	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00136	39136.39		0.13	0.05	0.50	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	535.900	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00136	29136.29		0.13	0.05	0.50	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	535.800	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00136	20136.20		0.13	0.05	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	535.700	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00136	10136.10		0.13	0.05	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	535.600	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00136	01136.01		0.13	0.05	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	535.500	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00135	91135.91		0.13	0.05	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	535.400	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00135	82135.82		0.13	0.05	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	535.300	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00135	73135.73		0.13	0.05	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	535.200	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00135	64135.64		0.13	0.05	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	535.100	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00135	54135.54		0.13	0.05	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	535.000	7.27	7.31	0.52	0.09	0.00	0.00	0.00	0.00135	45135.45		0.13	0.05	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	534.900	7.27	24.79	0.52	0.20	0.00	0.00	0.00	0.00135	36135.36		0.13	0.10	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	534.800	7.27	24.79	0.52	0.20	0.00	0.00	0.00	0.00135	27135.27		0.13	0.10	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	534.700	7.27	24.79	0.52	0.20	0.00	0.00	0.00	0.00135	19135.19		0.13	0.10	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	534.600	7.27	24.79	0.52	0.20	0.00	0.00	0.00	0.00135	10135.10		0.13	0.10	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	534.500	7.27	18.87	0.52	0.14	0.00	0.00	0.00	0.00135	05135.05		0.13	0.07	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	534.400	7.27	18.87	0.52	0.14	0.00	0.00	0.00	0.00135	01135.01		0.13	0.07	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	534.300	7.27	18.87	0.52	0.14	0.00	0.00	0.00	0.00134	96134.96		0.13	0.07	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	534.200	7.27	18.87	0.52	0.14	0.00	0.00	0.00	0.00134	92134.92		0.13	0.07	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	534.100	7.27	18.87	0.52	0.14	0.00	0.00	0.00	0.00134	88134.88		0.13	0.07	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	534.000	7.27	18.87	0.52	0.14	0.00	0.00	0.00	0.00134	83134.83		0.13	0.07	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	533.900	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00134	77134.77		0.13	0.06	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52	533.800	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00134	71134.71		0.13	0.06	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53	533.700	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00134	64134.64		0.13	0.06	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54	533.600	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00134	58134.58		0.13	0.06	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	533.500	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00134	52134.52		0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00

56	533.400	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00134.46134.46	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57	533.300	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00134.40134.40	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
58	533.200	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00134.33134.33	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	533.100	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00134.27134.27	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	533.000	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00134.21134.21	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61	532.900	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00134.15134.15	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62	532.800	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00134.09134.09	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63	532.700	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00134.03134.03	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64	532.600	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00133.97133.97	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	532.500	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00133.91133.91	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
66	532.400	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00133.85133.85	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67	532.300	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00133.79133.79	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68	532.200	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00133.73133.73	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69	532.100	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00133.67133.67	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	532.000	7.27	14.28	0.52	0.13	0.00	0.00	0.00	0.00133.62133.62	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71	531.900	7.27	17.18	0.52	0.12	0.00	0.00	0.00	0.00133.58133.58	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72	531.800	7.27	17.18	0.52	0.12	0.00	0.00	0.00	0.00133.55133.55	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73	531.700	7.27	17.18	0.52	0.12	0.00	0.00	0.00	0.00133.52133.52	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
74	531.600	7.27	17.18	0.52	0.12	0.00	0.00	0.00	0.00133.49133.49	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	531.500	7.27	17.18	0.52	0.12	0.00	0.00	0.00	0.00133.45133.45	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76	531.400	7.27	17.18	0.52	0.12	0.00	0.00	0.00	0.00133.42133.42	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77	531.300	7.27	17.18	0.52	0.12	0.00	0.00	0.00	0.00133.39133.39	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	531.200	7.27	17.18	0.52	0.12	0.00	0.00	0.00	0.00133.36133.36	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79	531.100	7.27	17.18	0.52	0.12	0.00	0.00	0.00	0.00133.33133.33	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	531.000	7.27	17.18	0.52	0.12	0.00	0.00	0.00	0.00133.29133.29	0.13	0.06	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
81	530.900	7.27	12.34	0.52	0.10	0.00	0.00	0.00	0.00133.26133.26	0.13	0.05	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82	530.800	7.27	12.34	0.52	0.10	0.00	0.00	0.00	0.00133.22133.22	0.13	0.05	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83	530.700	7.27	12.34	0.52	0.10	0.00	0.00	0.00	0.00133.18133.18	0.13	0.05	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	530.600	7.27	12.34	0.52	0.10	0.00	0.00	0.00	0.00133.15133.15	0.13	0.05	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	530.500	7.27	12.34	0.52	0.10	0.00	0.00	0.00	0.00133.11133.11	0.13	0.05	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	530.400	7.27	12.34	0.52	0.10	0.00	0.00	0.00	0.00133.08133.08	0.13	0.05	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87	530.300	7.27	12.34	0.52	0.10	0.00	0.00	0.00	0.00133.04133.04	0.13	0.05	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	530.200	7.27	12.34	0.52	0.10	0.00	0.00	0.00	0.00133.00133.00	0.13	0.05	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	530.100	7.27	12.34	0.52	0.10	0.00	0.00	0.00	0.00132.97132.97	0.13	0.05	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	530.000	7.27	22.30	0.52	0.16	0.00	0.00	0.00	0.00132.92132.92	0.13	0.08	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91	529.900	7.27	22.30	0.52	0.16	0.00	0.00	0.00	0.00132.88132.88	0.13	0.08	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92	529.800	7.27	22.30	0.52	0.16	0.00	0.00	0.00	0.00132.84132.84	0.13	0.08	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93	529.700	7.27	22.30	0.52	0.16	0.00	0.00	0.00	0.00132.79132.79	0.13	0.08	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94	529.600	7.27	22.30	0.52	0.16	0.00	0.00	0.00	0.00132.75132.75	0.13	0.08	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	529.500	7.27	22.30	0.52	0.16	0.00	0.00	0.00	0.00132.71132.71	0.13	0.08	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96	529.400	7.27	22.30	0.52	0.16	0.00	0.00	0.00	0.00132.66132.66	0.13	0.08	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97	529.300	7.27	22.30	0.52	0.16	0.00	0.00	0.00	0.00132.62132.62	0.13	0.08	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98	529.200	7.27	22.30	0.52	0.16	0.00	0.00	0.00	0.00132.58132.58	0.13	0.08	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99	529.100	7.27	22.30	0.52	0.16	0.00	0.00	0.00	0.00132.54132.54	0.13	0.08	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	529.000	7.27	22.30	0.52	0.16	0.00	0.00	0.00	0.00132.49132.49	0.13	0.08	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101	528.900	7.27	16.05	0.52	0.13	0.00	0.00	0.00	0.00132.45132.45	0.13	0.07	0.51	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102	528.800	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00135.33135.33	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103	528.700	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00135.27135.27	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
104	528.600	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00135.22135.22	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	528.500	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00135.16135.16	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106	528.400	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00135.10135.10	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107	528.300	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00135.04135.04	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	528.200	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.98134.98	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	528.100	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.92134.92	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	528.000	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.86134.86	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	527.900	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.81134.81	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112	527.800	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.75134.75	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113	527.700	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.69134.69	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	527.600	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.64134.64	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	527.500	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.58134.58	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116	527.400	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.52134.52	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	527.300	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.47134.47	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00

118	527.200	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.41134.41	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119	527.100	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.35134.35	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	527.000	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.30134.30	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121	526.901	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.24134.24	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122	526.801	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.19134.19	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	526.701	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.13134.13	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124	526.601	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.08134.08	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	526.501	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00134.03134.03	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	526.401	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00133.97133.97	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127	526.301	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00133.92133.92	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128	526.201	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00133.86133.86	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	526.101	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00133.81133.81	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	526.001	7.27	15.95	0.52	0.13	0.00	0.00	0.00	0.00133.76133.76	0.13	0.07	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
131	525.900	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00133.71133.71	0.13	0.05	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	525.800	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00133.66133.66	0.13	0.05	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133	525.700	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00133.61133.61	0.13	0.05	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
134	525.600	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00133.56133.56	0.13	0.05	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	525.500	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00133.52133.52	0.13	0.05	0.51	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
136	525.400	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00133.47133.47	0.13	0.05	0.50	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	525.300	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00133.42133.42	0.13	0.05	0.50	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	525.200	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00133.38133.38	0.13	0.05	0.50	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139	525.100	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00133.33133.33	0.13	0.05	0.50	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	525.000	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00133.28133.28	0.13	0.05	0.50	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	524.900	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00133.24133.24	0.13	0.05	0.50	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	524.800	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00133.19133.19	0.13	0.05	0.50	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143	524.700	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00133.14133.14	0.13	0.05	0.50	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	524.600	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00133.10133.10	0.13	0.05	0.50	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	524.500	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00133.05133.05	0.13	0.05	0.50	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	524.400	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00133.01133.01	0.13	0.05	0.50	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	524.300	7.27	9.24	0.52	0.09	0.00	0.00	0.00	0.00132.96132.96	0.13	0.05	0.50	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	524.200	7.27	9.22	0.52	0.09	0.00	0.00	0.00	0.00133.86133.86	0.13	0.05	0.50	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
149	524.100	7.27	9.22	0.52	0.09	0.00	0.00	0.00	0.00133.81133.81	0.13	0.05	0.50	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	524.000	7.27	9.22	0.52	0.09	0.00	0.00	0.00	0.00133.76133.76	0.13	0.05	0.50	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
151	523.900	7.27	1.66	0.52	0.05	0.00	0.00	0.00	0.00133.59133.59	0.19	0.02	0.50	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152	523.800	7.27	1.66	0.52	0.05	0.00	0.00	0.00	0.00133.42133.42	0.19	0.02	0.50	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	523.700	7.27	1.67	0.52	0.05	0.00	0.00	0.00	0.00133.26133.26	0.19	0.02	0.50	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	523.600	7.27	1.67	0.52	0.05	0.00	0.00	0.00	0.00133.10133.10	0.19	0.02	0.50	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	523.500	7.27	1.67	0.52	0.05	0.00	0.00	0.00	0.00132.94132.94	0.19	0.02	0.50	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	523.400	7.27	1.67	0.52	0.05	0.00	0.00	0.00	0.00132.78132.78	0.19	0.02	0.50	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157	523.300	7.27	1.67	0.52	0.05	0.00	0.00	0.00	0.00132.62132.62	0.19	0.02	0.50	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
158	523.200	7.27	1.67	0.52	0.05	0.00	0.00	0.00	0.00132.47132.47	0.19	0.02	0.50	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159	523.100	7.27	1.67	0.52	0.05	0.00	0.00	0.00	0.00132.31132.31	0.19	0.02	0.50	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	523.000	7.27	1.67	0.52	0.05	0.00	0.00	0.00	0.00132.16132.16	0.19	0.02	0.50	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
161	522.900	7.27	0.58	0.61	0.03	0.00	0.00	0.00	0.00152.00152.00	0.19	0.01	0.58	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	522.800	7.27	0.58	0.61	0.03	0.00	0.00	0.00	0.00151.71151.71	0.19	0.01	0.57	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
163	522.700	7.27	0.58	0.61	0.03	0.00	0.00	0.00	0.00151.44151.44	0.19	0.01	0.57	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164	522.600	7.27	0.58	0.61	0.03	0.00	0.00	0.00	0.00151.17151.17	0.19	0.01	0.57	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	522.500	7.27	0.59	0.61	0.03	0.00	0.00	0.00	0.00150.92150.92	0.19	0.01	0.57	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166	522.400	7.27	0.59	0.61	0.03	0.00	0.00	0.00	0.00150.66150.66	0.19	0.01	0.57	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167	522.300	7.27	0.35	0.61	0.02	0.00	0.00	0.00	0.00150.29150.29	0.25	0.01	0.56	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	522.200	7.27	0.35	0.61	0.02	0.00	0.00	0.00	0.00149.94149.94	0.25	0.01	0.56	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169	522.100	7.27	0.35	0.61	0.02	0.00	0.00	0.00	0.00149.59149.59	0.25	0.01	0.56	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	522.000	7.27	0.35	0.61	0.02	0.00	0.00	0.00	0.00149.26149.26	0.25	0.01	0.56	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	521.900	7.27	12.23	0.52	0.08	0.00	0.00	0.00	0.00129.13129.13	0.13	0.04	0.48	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172	521.800	7.27	12.22	0.52	0.08	0.00	0.00	0.00	0.00130.48130.48	0.13	0.04	0.49	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173	521.700	7.27	12.22	0.52	0.08	0.00	0.00	0.00	0.00130.46130.46	0.13	0.04	0.49	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	521.600	7.27	13.04	0.52	0.11	0.00	0.00	0.00	0.00130.57130.57	0.13	0.06	0.49	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	521.500	7.27	13.04	0.52	0.11	0.00	0.00	0.00	0.00130.53130.53	0.13	0.06	0.49	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176	521.400	7.27	13.04	0.52	0.11	0.00	0.00	0.00	0.00130.49130.49	0.13	0.06	0.49	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	521.300	7.27	13.04	0.52	0.11	0.00	0.00	0.00	0.00130.45130.45	0.13	0.06	0.50	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
178	521.200	7.27	13.04	0.52	0.11	0.00	0.00	0.00	0.00130.42130.42	0.13	0.06	0.50	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
179	521.100	7.27	13.04	0.52	0.11	0.00	0.00	0.00	0.00130.38130.38	0.13	0.06	0.50	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00

180	521.000	7.27	13.04	0.52	0.11	0.00	0.00	0.00	0.00130.34130.34	0.13	0.06	0.50	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
181	520.900	7.27	13.04	0.52	0.11	0.00	0.00	0.00	0.00130.31130.31	0.13	0.06	0.50	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
182	520.800	7.27	13.04	0.52	0.11	0.00	0.00	0.00	0.00130.27130.27	0.13	0.06	0.50	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
183	520.700	7.27	13.04	0.52	0.11	0.00	0.00	0.00	0.00130.24130.24	0.13	0.06	0.50	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
184	520.600	7.27	19.20	0.52	0.15	0.00	0.00	0.00	0.00130.20130.20	0.13	0.07	0.50	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
185	520.500	7.27	19.20	0.52	0.15	0.00	0.00	0.00	0.00130.16130.16	0.13	0.07	0.50	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
186	520.400	7.27	19.20	0.52	0.15	0.00	0.00	0.00	0.00130.13130.13	0.13	0.07	0.50	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
187	520.300	7.27	19.20	0.52	0.15	0.00	0.00	0.00	0.00130.09130.09	0.13	0.07	0.50	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
188	520.200	7.27	19.20	0.52	0.15	0.00	0.00	0.00	0.00130.06130.06	0.13	0.07	0.50	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
189	520.100	7.27	14.79	0.52	0.12	0.00	0.00	0.00	0.00130.03130.03	0.13	0.06	0.50	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	520.000	7.27	14.79	0.52	0.12	0.00	0.00	0.00	0.00130.00130.00	0.13	0.06	0.50	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
191	519.900	7.27	12.40	0.69	0.12	0.00	0.00	0.00	0.00150.07150.07	0.25	0.06	0.67	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
192	519.800	7.27	12.40	0.69	0.12	0.00	0.00	0.00	0.00150.02150.02	0.25	0.06	0.67	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
193	519.700	7.27	12.40	0.69	0.12	0.00	0.00	0.00	0.00149.99149.99	0.25	0.06	0.67	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
194	519.600	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00170.39170.39	0.25	0.06	0.66	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195	519.500	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00170.24170.24	0.25	0.06	0.66	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
196	519.400	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00170.08170.08	0.25	0.06	0.66	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	519.300	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00169.93169.93	0.25	0.06	0.66	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
198	519.200	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00169.78169.78	0.25	0.06	0.66	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199	519.100	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00169.63169.63	0.25	0.06	0.66	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200	519.000	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00169.47169.47	0.25	0.06	0.66	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
201	518.900	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00169.32169.32	0.25	0.06	0.66	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202	518.800	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00169.17169.17	0.25	0.06	0.66	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
203	518.700	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00169.03169.03	0.25	0.06	0.66	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
204	518.600	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00168.88168.88	0.25	0.06	0.66	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
205	518.500	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00168.73168.73	0.25	0.06	0.66	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
206	518.400	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00168.58168.58	0.25	0.06	0.66	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
207	518.300	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00168.44168.44	0.25	0.06	0.66	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208	518.200	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00168.29168.29	0.25	0.06	0.66	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
209	518.100	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00168.15168.15	0.25	0.06	0.66	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210	518.000	7.27	11.97	0.69	0.11	0.00	0.00	0.00	0.00168.01168.01	0.25	0.06	0.66	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
211	517.900	7.27	14.01	0.61	0.11	0.00	0.00	0.00	0.00167.92167.92	0.19	0.05	0.58	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
212	517.800	7.27	14.01	0.61	0.11	0.00	0.00	0.00	0.00167.83167.83	0.19	0.05	0.58	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
213	517.700	7.27	14.01	0.61	0.11	0.00	0.00	0.00	0.00167.75167.75	0.19	0.05	0.58	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
214	517.600	7.27	14.01	0.61	0.11	0.00	0.00	0.00	0.00167.66167.66	0.19	0.05	0.58	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
215	517.500	7.27	14.01	0.61	0.11	0.00	0.00	0.00	0.00167.58167.58	0.19	0.05	0.58	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
216	517.400	7.27	14.01	0.61	0.11	0.00	0.00	0.00	0.00167.49167.49	0.19	0.05	0.58	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
217	517.300	7.27	14.01	0.61	0.11	0.00	0.00	0.00	0.00167.41167.41	0.19	0.05	0.58	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
218	517.200	7.27	14.01	0.61	0.11	0.00	0.00	0.00	0.00167.32167.32	0.19	0.05	0.58	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
219	517.100	7.27	24.82	0.52	0.14	0.00	0.00	0.00	0.00147.15147.15	0.13	0.07	0.50	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
220	517.000	7.27	24.82	0.52	0.14	0.00	0.00	0.00	0.00147.11147.11	0.13	0.07	0.50	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
221	516.900	7.27	24.82	0.52	0.14	0.00	0.00	0.00	0.00147.06147.06	0.13	0.07	0.50	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
222	516.800	7.27	7.58	0.52	0.09	0.00	0.00	0.00	0.00146.93146.93	0.13	0.04	0.58	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223	516.700	7.27	7.55	0.52	0.09	0.00	0.00	0.00	0.00149.94149.94	0.13	0.04	0.58	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
224	516.600	7.27	13.31	0.52	0.11	0.00	0.00	0.00	0.00169.98169.98	0.13	0.05	0.50	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225	516.500	7.27	13.31	0.52	0.11	0.00	0.00	0.00	0.00169.90169.90	0.13	0.05	0.50	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
226	516.400	7.27	13.31	0.52	0.11	0.00	0.00	0.00	0.00169.81169.81	0.13	0.05	0.50	1.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
227	516.300	7.27	13.31	0.52	0.11	0.00	0.00	0.00	0.00169.73169.73	0.13	0.05	0.50	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
228	516.200	7.27	13.31	0.52	0.11	0.00	0.00	0.00	0.00169.65169.65	0.13	0.05	0.50	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
229	516.100	7.27	13.31	0.52	0.11	0.00	0.00	0.00	0.00169.56169.56	0.13	0.05	0.50	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
230	516.000	7.27	13.31	0.52	0.11	0.00	0.00	0.00	0.00169.48169.48	0.13	0.05	0.50	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
231	515.900	7.27	13.31	0.52	0.11	0.00	0.00	0.00	0.00169.40169.40	0.13	0.05	0.50	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
232	515.800	7.27	13.31	0.52	0.11	0.00	0.00	0.00	0.00169.32169.32	0.13	0.05	0.50	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
233	515.700	7.27	13.31	0.52	0.11	0.00	0.00	0.00	0.00169.24169.24	0.13	0.05	0.50	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
234	515.600	7.27	13.31	0.52	0.11	0.00	0.00	0.00	0.00169.15169.15	0.13	0.05	0.50	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
235	515.500	7.27	13.31	0.52	0.11	0.00	0.00	0.00	0.00169.07169.07	0.13	0.05	0.50	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
236	515.400	7.27	12.19	0.52	0.10	0.00	0.00	0.00	0.00148.87148.87	0.13	0.05	0.50	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
237	515.300	7.27	12.19	0.52	0.10	0.00	0.00	0.00	0.00148.81148.81	0.13	0.05	0.50	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
238	515.200	7.27	12.19	0.52	0.10	0.00	0.00	0.00	0.00148.74148.74	0.13	0.05	0.50	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
239	515.100	7.27	12.19	0.52	0.10	0.00	0.00	0.00	0.00148.66148.66	0.13	0.05	0.50	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240	515.000	7.27	12.19	0.52	0.10	0.00	0.00	0.00	0.00148.58148.58	0.13	0.05	0.50	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
241	514.900	7.27	12.19	0.52	0.10	0.00	0.00	0.00	0.00148.50148.50	0.13	0.05	0.50	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00

242	514.800	7.27	6.65	0.52	0.09	0.00	0.00	0.00	0.00148.35148.35	0.13	0.04	0.50	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
243	514.700	7.27	6.65	0.52	0.09	0.00	0.00	0.00	0.00148.19148.19	0.13	0.04	0.50	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
244	514.600	7.27	6.65	0.52	0.09	0.00	0.00	0.00	0.00148.04148.04	0.13	0.04	0.50	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
245	514.500	7.27	10.19	0.52	0.10	0.00	0.00	0.00	0.00147.91147.91	0.13	0.05	0.50	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
246	514.400	7.27	10.19	0.52	0.10	0.00	0.00	0.00	0.00147.79147.79	0.13	0.05	0.50	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247	514.300	7.27	10.19	0.52	0.10	0.00	0.00	0.00	0.00147.66147.66	0.13	0.05	0.50	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248	514.200	7.27	10.19	0.52	0.10	0.00	0.00	0.00	0.00147.54147.54	0.13	0.05	0.50	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
249	514.100	7.27	10.19	0.52	0.10	0.00	0.00	0.00	0.00147.42147.42	0.13	0.05	0.50	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
250	514.000	7.27	10.19	0.52	0.10	0.00	0.00	0.00	0.00147.30147.30	0.13	0.05	0.50	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
251	513.900	7.27	10.19	0.52	0.10	0.00	0.00	0.00	0.00147.18147.18	0.13	0.05	0.50	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
252	513.800	7.27	10.19	0.52	0.10	0.00	0.00	0.00	0.00147.06147.06	0.13	0.05	0.50	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
253	513.700	7.27	10.19	0.52	0.10	0.00	0.00	0.00	0.00146.94146.94	0.13	0.05	0.50	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
254	513.600	7.27	10.19	0.52	0.10	0.00	0.00	0.00	0.00146.82146.82	0.13	0.05	0.50	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255	513.500	7.27	10.19	0.52	0.10	0.00	0.00	0.00	0.00146.70146.70	0.13	0.05	0.50	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
256	513.400	7.27	10.19	0.52	0.10	0.00	0.00	0.00	0.00146.58146.58	0.13	0.05	0.50	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
257	513.300	7.27	10.11	0.52	0.10	0.00	0.00	0.00	0.00146.86146.86	0.13	0.05	0.50	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
258	513.200	7.27	10.11	0.52	0.10	0.00	0.00	0.00	0.00146.74146.74	0.13	0.05	0.50	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
259	513.100	7.27	10.11	0.52	0.10	0.00	0.00	0.00	0.00146.62146.62	0.13	0.05	0.50	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
260	513.000	7.27	10.11	0.52	0.10	0.00	0.00	0.00	0.00146.50146.50	0.13	0.05	0.50	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
261	512.900	7.27	11.95	0.52	0.10	0.00	0.00	0.00	0.00146.42146.42	0.13	0.05	0.50	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
262	512.800	7.27	11.95	0.52	0.10	0.00	0.00	0.00	0.00146.34146.34	0.13	0.05	0.50	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
263	512.700	7.27	11.95	0.52	0.10	0.00	0.00	0.00	0.00146.25146.25	0.13	0.05	0.50	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
264	512.600	7.27	11.95	0.52	0.10	0.00	0.00	0.00	0.00146.17146.17	0.13	0.05	0.50	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
265	512.500	7.27	11.95	0.52	0.10	0.00	0.00	0.00	0.00146.09146.09	0.13	0.05	0.50	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
266	512.400	7.27	11.93	0.52	0.10	0.00	0.00	0.00	0.00146.70146.70	0.13	0.05	0.50	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
267	512.300	7.27	11.93	0.52	0.10	0.00	0.00	0.00	0.00146.61146.61	0.13	0.05	0.50	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
268	512.200	7.27	11.93	0.52	0.10	0.00	0.00	0.00	0.00146.53146.53	0.13	0.05	0.50	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
269	512.100	7.27	11.93	0.52	0.10	0.00	0.00	0.00	0.00146.45146.45	0.13	0.05	0.50	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270	512.000	7.27	11.91	0.52	0.10	0.00	0.00	0.00	0.00147.24147.24	0.13	0.05	0.50	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
271	511.900	7.27	11.91	0.52	0.10	0.00	0.00	0.00	0.00147.15147.15	0.13	0.05	0.50	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
272	511.800	7.27	4.00	0.52	0.07	0.00	0.00	0.00	0.00146.94146.94	0.13	0.03	0.50	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
273	511.700	7.27	3.99	0.52	0.07	0.00	0.00	0.00	0.00146.65146.65	0.13	0.03	0.50	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	511.600	7.27	3.99	0.52	0.07	0.00	0.00	0.00	0.00146.45146.45	0.13	0.03	0.50	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
275	511.500	7.27	22.61	0.52	0.13	0.00	0.00	0.00	0.00146.40146.40	0.13	0.07	0.50	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
276	511.400	7.27	22.61	0.52	0.13	0.00	0.00	0.00	0.00146.35146.35	0.13	0.07	0.50	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
277	511.300	7.27	22.61	0.52	0.13	0.00	0.00	0.00	0.00146.29146.29	0.13	0.07	0.50	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
278	511.200	7.27	22.61	0.52	0.13	0.00	0.00	0.00	0.00146.24146.24	0.13	0.07	0.50	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
279	511.100	7.27	8.15	0.52	0.09	0.00	0.00	0.00	0.00146.13146.13	0.13	0.04	0.50	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
280	511.000	7.27	8.15	0.52	0.09	0.00	0.00	0.00	0.00146.03146.03	0.13	0.04	0.50	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
281	510.900	7.27	8.15	0.52	0.09	0.00	0.00	0.00	0.00145.92145.92	0.13	0.04	0.50	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
282	510.800	7.27	8.13	0.52	0.09	0.00	0.00	0.00	0.00147.11147.11	0.13	0.04	0.50	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
283	510.700	7.27	8.13	0.52	0.09	0.00	0.00	0.00	0.00147.00147.00	0.13	0.04	0.50	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
284	510.600	7.27	8.13	0.52	0.09	0.00	0.00	0.00	0.00146.89146.89	0.13	0.04	0.50	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285	510.500	7.27	8.13	0.52	0.09	0.00	0.00	0.00	0.00146.78146.78	0.13	0.04	0.50	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
286	510.400	7.27	8.11	0.52	0.09	0.00	0.00	0.00	0.00148.91148.91	0.13	0.04	0.50	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
287	510.300	7.27	8.11	0.52	0.09	0.00	0.00	0.00	0.00148.79148.79	0.13	0.04	0.50	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
288	510.200	7.27	8.11	0.52	0.09	0.00	0.00	0.00	0.00148.67148.67	0.13	0.04	0.50	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
289	510.100	7.27	8.11	0.52	0.09	0.00	0.00	0.00	0.00148.55148.55	0.13	0.04	0.50	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
290	510.000	7.27	8.11	0.52	0.09	0.00	0.00	0.00	0.00148.44148.44	0.13	0.04	0.50	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
291	509.900	7.27	8.11	0.52	0.09	0.00	0.00	0.00	0.00148.32148.32	0.13	0.04	0.50	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292	509.800	7.27	8.11	0.52	0.09	0.00	0.00	0.00	0.00148.20148.20	0.13	0.04	0.50	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293	509.700	7.27	8.11	0.52	0.09	0.00	0.00	0.00	0.00148.09148.09	0.13	0.04	0.50	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
294	509.600	7.27	8.11	0.52	0.09	0.00	0.00	0.00	0.00147.97147.97	0.13	0.04	0.50	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
295	509.500	7.27	8.11	0.52	0.09	0.00	0.00	0.00	0.00147.86147.86	0.13	0.04	0.50	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
296	509.400	7.27	8.11	0.52	0.09	0.00	0.00	0.00	0.00147.74147.74	0.13	0.04	0.50	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
297	509.300	7.27	8.11	0.52	0.09	0.00	0.00	0.00	0.00147.63147.63	0.13	0.04	0.50	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
298	509.200	7.27	8.11	0.52	0.09	0.00	0.00	0.00	0.00147.52147.52	0.13	0.04	0.50	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
299	509.100	7.27	8.11	0.52	0.09	0.00	0.00	0.00	0.00147.40147.40	0.13	0.04	0.50	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300	509.000	7.27	8.11	0.52	0.09	0.00	0.00	0.00	0.00147.29147.29	0.13	0.04	0.50	1.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
301	508.900	7.27	1.19	0.52	0.04	0.00	0.00	0.00	0.00146.98146.98	0.13	0.02	0.49	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
302	508.800	7.27	1.19	0.52	0.04	0.00	0.00	0.00	0.00146.67146.67	0.13	0.02	0.49	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
303	508.700	7.27	1.19	0.52	0.04	0.00	0.00	0.00	0.00146.36146.36	0.13	0.02	0.49	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00

304	508.600	7.27	1.19	0.52	0.04	0.00	0.00	0.00	0.00146.06146.06	0.13	0.02	0.49	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
305	508.500	7.27	1.19	0.52	0.04	0.00	0.00	0.00	0.00145.76145.76	0.13	0.02	0.49	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
306	508.400	7.27	1.19	0.52	0.04	0.00	0.00	0.00	0.00145.47145.47	0.13	0.02	0.48	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
307	508.300	7.27	1.19	0.52	0.04	0.00	0.00	0.00	0.00145.18145.18	0.13	0.02	0.48	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
308	508.200	7.27	10.11	0.52	0.10	0.00	0.00	0.00	0.00145.07145.07	0.13	0.05	0.48	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
309	508.100	7.27	10.11	0.52	0.10	0.00	0.00	0.00	0.00144.95144.95	0.13	0.05	0.48	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
310	508.000	7.27	10.11	0.52	0.10	0.00	0.00	0.00	0.00144.84144.84	0.13	0.05	0.49	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
311	507.900	7.27	10.11	0.52	0.10	0.00	0.00	0.00	0.00144.72144.72	0.13	0.05	0.49	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
312	507.800	7.27	10.11	0.52	0.10	0.00	0.00	0.00	0.00144.61144.61	0.13	0.05	0.49	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
313	507.700	7.27	10.11	0.52	0.10	0.00	0.00	0.00	0.00144.50144.50	0.13	0.05	0.49	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
314	507.600	7.27	10.11	0.52	0.10	0.00	0.00	0.00	0.00144.39144.39	0.13	0.05	0.49	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315	507.500	7.27	10.11	0.52	0.10	0.00	0.00	0.00	0.00144.27144.27	0.13	0.05	0.49	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
316	507.400	7.27	10.11	0.52	0.10	0.00	0.00	0.00	0.00144.16144.16	0.13	0.05	0.49	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
317	507.300	7.27	10.11	0.52	0.10	0.00	0.00	0.00	0.00144.06144.06	0.13	0.05	0.49	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
318	507.200	7.27	10.07	0.52	0.10	0.00	0.00	0.00	0.00146.09146.09	0.13	0.05	0.49	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
319	507.100	7.27	10.07	0.52	0.10	0.00	0.00	0.00	0.00145.97145.97	0.13	0.05	0.49	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
320	507.000	7.27	10.07	0.52	0.10	0.00	0.00	0.00	0.00145.85145.85	0.13	0.05	0.49	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
321	506.900	7.27	10.07	0.52	0.10	0.00	0.00	0.00	0.00145.74145.74	0.13	0.05	0.49	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
322	506.800	7.27	10.07	0.52	0.10	0.00	0.00	0.00	0.00145.62145.62	0.13	0.05	0.49	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
323	506.700	7.27	10.07	0.52	0.10	0.00	0.00	0.00	0.00145.50145.50	0.13	0.05	0.49	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
324	506.600	7.27	10.07	0.52	0.10	0.00	0.00	0.00	0.00145.38145.38	0.13	0.05	0.49	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
325	506.500	7.27	10.07	0.52	0.10	0.00	0.00	0.00	0.00145.27145.27	0.13	0.05	0.49	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
326	506.400	7.27	10.07	0.52	0.10	0.00	0.00	0.00	0.00145.15145.15	0.13	0.05	0.49	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
327	506.300	7.27	10.07	0.52	0.10	0.00	0.00	0.00	0.00145.04145.04	0.13	0.05	0.49	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
328	506.200	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00171.65171.65	0.25	0.05	0.66	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
329	506.100	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00171.47171.47	0.25	0.05	0.66	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330	506.000	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00171.29171.29	0.25	0.05	0.66	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
331	505.900	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00171.11171.11	0.25	0.05	0.66	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
332	505.800	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00170.93170.93	0.25	0.05	0.66	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
333	505.700	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00170.75170.75	0.25	0.05	0.66	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00
334	505.600	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00170.58170.58	0.25	0.05	0.66	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00
335	505.500	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00170.40170.40	0.25	0.05	0.66	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00
336	505.400	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00170.23170.23	0.25	0.05	0.66	1.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337	505.300	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00170.05170.05	0.25	0.05	0.66	1.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
338	505.200	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00169.88169.88	0.25	0.05	0.66	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
339	505.100	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00169.71169.71	0.25	0.05	0.66	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
340	505.000	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00169.54169.54	0.25	0.05	0.66	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
341	504.900	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00169.37169.37	0.25	0.05	0.66	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
342	504.800	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00169.20169.20	0.25	0.05	0.66	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
343	504.700	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00169.03169.03	0.25	0.05	0.66	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
344	504.600	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00168.86168.86	0.25	0.05	0.66	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345	504.500	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00168.70168.70	0.25	0.05	0.66	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
346	504.400	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00168.53168.53	0.25	0.05	0.66	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
347	504.300	7.27	10.33	0.61	0.11	0.00	0.00	0.00	0.00168.37168.37	0.25	0.05	0.66	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
348	504.200	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00148.13148.13	0.13	0.07	0.49	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
349	504.100	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00148.02148.02	0.13	0.07	0.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
350	504.000	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00147.90147.90	0.13	0.07	0.50	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
351	503.900	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00147.79147.79	0.13	0.07	0.50	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
352	503.800	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00147.68147.68	0.13	0.07	0.50	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
353	503.700	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00147.56147.56	0.13	0.07	0.50	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
354	503.600	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00147.45147.45	0.13	0.07	0.50	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
355	503.500	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00147.34147.34	0.13	0.07	0.50	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
356	503.400	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00147.23147.23	0.13	0.07	0.50	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
357	503.300	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00147.12147.12	0.13	0.07	0.50	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
358	503.200	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00147.01147.01	0.13	0.07	0.50	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
359	503.100	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00146.90146.90	0.13	0.07	0.50	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360	503.000	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00146.79146.79	0.13	0.07	0.50	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
361	502.900	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00146.68146.68	0.13	0.07	0.50	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
362	502.800	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00146.57146.57	0.13	0.07	0.50	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
363	502.700	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00146.46146.46	0.13	0.07	0.50	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
364	502.600	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00146.35146.35	0.13	0.07	0.50	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
365	502.500	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00146.24146.24	0.13	0.07	0.50	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00

366	502.400	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00146.14146.14	0.13	0.07	0.50	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
367	502.300	7.27	17.11	0.52	0.14	0.00	0.00	0.00	0.00146.03146.03	0.13	0.07	0.50	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
368	502.200	7.27	10.18	0.52	0.11	0.00	0.00	0.00	0.00145.91145.91	0.13	0.05	0.50	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
369	502.100	7.27	10.18	0.52	0.11	0.00	0.00	0.00	0.00145.79145.79	0.13	0.05	0.50	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
370	502.000	7.27	10.18	0.52	0.11	0.00	0.00	0.00	0.00145.67145.67	0.13	0.05	0.50	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
371	501.900	7.27	10.18	0.52	0.11	0.00	0.00	0.00	0.00145.56145.56	0.13	0.05	0.50	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
372	501.800	7.27	10.18	0.52	0.11	0.00	0.00	0.00	0.00145.44145.44	0.13	0.05	0.50	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
373	501.700	7.27	10.18	0.52	0.11	0.00	0.00	0.00	0.00145.32145.32	0.13	0.05	0.50	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
374	501.600	7.27	10.18	0.52	0.11	0.00	0.00	0.00	0.00145.21145.21	0.13	0.05	0.50	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
375	501.500	7.27	10.18	0.52	0.11	0.00	0.00	0.00	0.00145.09145.09	0.13	0.05	0.50	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
376	501.400	7.27	10.18	0.52	0.11	0.00	0.00	0.00	0.00144.97144.97	0.13	0.05	0.50	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
377	501.300	7.27	10.18	0.52	0.11	0.00	0.00	0.00	0.00144.86144.86	0.13	0.05	0.50	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
378	501.200	7.27	12.66	0.52	0.13	0.00	0.00	0.00	0.00144.70144.70	0.13	0.07	0.50	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
379	501.100	7.27	12.66	0.52	0.13	0.00	0.00	0.00	0.00144.55144.55	0.13	0.07	0.50	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
380	501.000	7.27	11.54	0.61	0.12	0.00	0.00	0.00	0.00164.52164.52	0.25	0.06	0.67	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
381	500.900	7.27	11.54	0.61	0.12	0.00	0.00	0.00	0.00164.37164.37	0.25	0.06	0.67	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
382	500.800	7.27	11.54	0.61	0.12	0.00	0.00	0.00	0.00164.23164.23	0.25	0.06	0.67	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
383	500.700	7.27	11.54	0.61	0.12	0.00	0.00	0.00	0.00164.08164.08	0.25	0.06	0.67	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
384	500.600	7.27	11.54	0.61	0.12	0.00	0.00	0.00	0.00163.94163.94	0.25	0.06	0.66	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
385	500.500	7.27	11.54	0.61	0.12	0.00	0.00	0.00	0.00163.79163.79	0.25	0.06	0.66	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
386	500.400	7.27	11.54	0.61	0.12	0.00	0.00	0.00	0.00163.65163.65	0.25	0.06	0.66	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
387	500.300	7.27	11.54	0.61	0.12	0.00	0.00	0.00	0.00163.51163.51	0.25	0.06	0.66	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
388	500.200	7.27	11.54	0.61	0.12	0.00	0.00	0.00	0.00163.37163.37	0.25	0.06	0.66	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
389	500.100	7.27	11.54	0.61	0.12	0.00	0.00	0.00	0.00163.23163.23	0.25	0.06	0.66	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
390	500.000	7.27	11.49	0.61	0.12	0.00	0.00	0.00	0.00166.39166.39	0.25	0.06	0.66	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
391	499.900	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00146.21146.21	0.13	0.07	0.50	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
392	499.800	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00146.15146.15	0.13	0.07	0.50	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
393	499.700	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00146.09146.09	0.13	0.07	0.50	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
394	499.600	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00146.03146.03	0.13	0.07	0.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
395	499.500	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.98145.98	0.13	0.07	0.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
396	499.400	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.92145.92	0.13	0.07	0.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
397	499.300	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.86145.86	0.13	0.07	0.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
398	499.200	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.80145.80	0.13	0.07	0.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
399	499.100	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.75145.75	0.13	0.07	0.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400	499.000	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.69145.69	0.13	0.07	0.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
401	498.900	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.63145.63	0.13	0.07	0.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
402	498.800	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.58145.58	0.13	0.07	0.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
403	498.700	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.52145.52	0.13	0.07	0.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
404	498.600	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.46145.46	0.13	0.07	0.50	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
405	498.500	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.41145.41	0.13	0.07	0.50	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
406	498.400	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.35145.35	0.13	0.07	0.50	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
407	498.300	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.30145.30	0.13	0.07	0.50	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
408	498.200	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.24145.24	0.13	0.07	0.50	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
409	498.100	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.18145.18	0.13	0.07	0.50	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
410	498.000	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.13145.13	0.13	0.07	0.50	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
411	497.900	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.07145.07	0.13	0.07	0.50	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
412	497.800	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00145.02145.02	0.13	0.07	0.50	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
413	497.700	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.96144.96	0.13	0.07	0.50	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
414	497.600	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.91144.91	0.13	0.07	0.50	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
415	497.500	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.85144.85	0.13	0.07	0.50	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
416	497.400	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.80144.80	0.13	0.07	0.50	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
417	497.300	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.74144.74	0.13	0.07	0.50	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
418	497.200	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.69144.69	0.13	0.07	0.50	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
419	497.100	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.63144.63	0.13	0.07	0.50	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
420	497.000	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.58144.58	0.13	0.07	0.50	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
421	496.900	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.53144.53	0.13	0.07	0.50	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
422	496.800	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.47144.47	0.13	0.07	0.50	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
423	496.700	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.42144.42	0.13	0.07	0.50	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
424	496.600	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.36144.36	0.13	0.07	0.50	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
425	496.500	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.31144.31	0.13	0.07	0.50	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
426	496.400	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.26144.26	0.13	0.07	0.50	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
427	496.300	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.20144.20	0.13	0.07	0.50	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00

428	496.200	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.15144.15	0.13	0.07	0.50	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
429	496.100	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.10144.10	0.13	0.07	0.50	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
430	496.000	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00144.04144.04	0.13	0.07	0.50	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
431	495.900	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00143.99143.99	0.13	0.07	0.50	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
432	495.800	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00143.94143.94	0.13	0.07	0.50	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
433	495.700	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00143.88143.88	0.13	0.07	0.50	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
434	495.600	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00143.83143.83	0.13	0.07	0.51	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
435	495.500	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00143.78143.78	0.13	0.07	0.51	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
436	495.400	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00143.73143.73	0.13	0.07	0.51	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
437	495.300	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00143.67143.67	0.13	0.07	0.51	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
438	495.200	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00143.62143.62	0.13	0.07	0.51	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
439	495.100	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00143.57143.57	0.13	0.07	0.51	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
440	495.000	7.27	24.66	0.52	0.15	0.00	0.00	0.00	0.00143.52143.52	0.13	0.07	0.51	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
441	494.900	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00143.43143.43	0.13	0.04	0.50	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
442	494.800	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00143.35143.35	0.13	0.04	0.50	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
443	494.700	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00143.26143.26	0.13	0.04	0.50	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
444	494.600	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00143.18143.18	0.13	0.04	0.50	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
445	494.500	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00143.09143.09	0.13	0.04	0.50	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
446	494.400	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00143.01143.01	0.13	0.04	0.50	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
447	494.300	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00142.92142.92	0.13	0.04	0.50	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
448	494.200	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00142.84142.84	0.13	0.04	0.50	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
449	494.100	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00142.75142.75	0.13	0.04	0.50	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
450	494.000	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00142.67142.67	0.13	0.04	0.50	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
451	493.900	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00142.59142.59	0.13	0.04	0.50	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
452	493.800	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00142.51142.51	0.13	0.04	0.50	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
453	493.700	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00142.42142.42	0.13	0.04	0.50	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
454	493.600	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00142.34142.34	0.13	0.04	0.50	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
455	493.500	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00142.26142.26	0.13	0.04	0.50	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
456	493.400	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00142.18142.18	0.13	0.04	0.50	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
457	493.300	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00142.10142.10	0.13	0.04	0.50	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
458	493.200	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00142.02142.02	0.13	0.04	0.50	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
459	493.100	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00141.94141.94	0.13	0.04	0.50	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
460	493.000	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00141.86141.86	0.13	0.04	0.50	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
461	492.900	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00141.78141.78	0.13	0.04	0.50	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
462	492.800	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00141.70141.70	0.13	0.04	0.50	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
463	492.700	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00141.62141.62	0.13	0.04	0.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
464	492.600	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00141.54141.54	0.13	0.04	0.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
465	492.500	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00141.46141.46	0.13	0.04	0.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
466	492.400	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00141.38141.38	0.13	0.04	0.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
467	492.300	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00141.30141.30	0.13	0.04	0.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
468	492.200	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00141.23141.23	0.13	0.04	0.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
469	492.100	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00141.15141.15	0.13	0.04	0.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
470	492.000	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00141.07141.07	0.13	0.04	0.50	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
471	491.900	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00140.99140.99	0.13	0.04	0.50	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
472	491.800	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00140.92140.92	0.13	0.04	0.50	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
473	491.700	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00140.84140.84	0.13	0.04	0.50	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
474	491.600	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00140.77140.77	0.13	0.04	0.50	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
475	491.500	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00140.69140.69	0.13	0.04	0.50	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
476	491.400	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00140.61140.61	0.13	0.04	0.50	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
477	491.300	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00140.54140.54	0.13	0.04	0.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
478	491.200	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00140.46140.46	0.13	0.04	0.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
479	491.100	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00140.39140.39	0.13	0.04	0.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
480	491.000	7.27	7.41	0.52	0.08	0.00	0.00	0.00	0.00140.32140.32	0.13	0.04	0.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
481	490.900	7.27	7.40	0.52	0.08	0.00	0.00	0.00	0.00141.49141.49	0.13	0.04	0.50	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
482	490.800	7.27	7.40	0.52	0.08	0.00	0.00	0.00	0.00141.41141.41	0.13	0.04	0.50	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
483	490.700	7.27	7.40	0.52	0.08	0.00	0.00	0.00	0.00141.33141.33	0.13	0.04	0.50	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
484	490.600	7.27	7.40	0.52	0.08	0.00	0.00	0.00	0.00141.25141.25	0.13	0.04	0.50	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
485	490.500	7.27	7.40	0.52	0.08	0.00	0.00	0.00	0.00141.18141.18	0.13	0.04	0.50	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
486	490.400	7.27	7.40	0.52	0.08	0.00	0.00	0.00	0.00141.10141.10	0.13	0.04	0.50	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
487	490.300	7.27	7.40	0.52	0.08	0.00	0.00	0.00	0.00141.02141.02	0.13	0.04	0.50	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
488	490.200	7.27	7.40	0.52	0.08	0.00	0.00	0.00	0.00140.95140.95	0.13	0.04	0.50	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
489	490.100	7.27	7.40	0.52	0.08	0.00	0.00	0.00	0.00140.87140.87	0.13	0.04	0.50	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00

490	490.000	7.27	7.40	0.52	0.08	0.00	0.00	0.00	0.00140.79140.79	0.13	0.04	0.50	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
491	489.900	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00140.74140.74	0.13	0.04	0.50	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
492	489.800	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00140.68140.68	0.13	0.04	0.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
493	489.700	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00140.62140.62	0.13	0.04	0.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
494	489.600	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00140.56140.56	0.13	0.04	0.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
495	489.500	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00140.50140.50	0.13	0.04	0.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
496	489.400	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00140.44140.44	0.13	0.04	0.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
497	489.300	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00140.38140.38	0.13	0.04	0.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
498	489.200	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00140.33140.33	0.13	0.04	0.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
499	489.100	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00140.27140.27	0.13	0.04	0.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500	489.000	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00140.21140.21	0.13	0.04	0.50	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
501	488.900	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00140.15140.15	0.13	0.04	0.50	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
502	488.800	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00140.10140.10	0.13	0.04	0.50	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
503	488.700	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00140.04140.04	0.13	0.04	0.50	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
504	488.600	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.98139.98	0.13	0.04	0.50	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
505	488.500	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.92139.92	0.13	0.04	0.50	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
506	488.400	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.87139.87	0.13	0.04	0.50	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
507	488.300	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.81139.81	0.13	0.04	0.50	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
508	488.200	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.76139.76	0.13	0.04	0.50	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
509	488.100	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.70139.70	0.13	0.04	0.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
510	488.000	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.64139.64	0.13	0.04	0.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
511	487.900	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.59139.59	0.13	0.04	0.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
512	487.800	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.53139.53	0.13	0.04	0.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
513	487.700	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.48139.48	0.13	0.04	0.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
514	487.600	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.42139.42	0.13	0.04	0.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
515	487.500	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.37139.37	0.13	0.04	0.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
516	487.400	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.31139.31	0.13	0.04	0.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
517	487.300	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.26139.26	0.13	0.04	0.50	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
518	487.200	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.20139.20	0.13	0.04	0.50	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
519	487.100	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.15139.15	0.13	0.04	0.50	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
520	487.000	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.09139.09	0.13	0.04	0.50	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
521	486.900	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00139.04139.04	0.13	0.04	0.50	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
522	486.800	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.98138.98	0.13	0.04	0.50	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
523	486.700	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.93138.93	0.13	0.04	0.50	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
524	486.600	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.88138.88	0.13	0.04	0.50	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
525	486.500	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.82138.82	0.13	0.04	0.50	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
526	486.400	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.77138.77	0.13	0.04	0.50	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
527	486.300	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.72138.72	0.13	0.04	0.50	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
528	486.200	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.66138.66	0.13	0.04	0.50	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
529	486.100	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.61138.61	0.13	0.04	0.50	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
530	486.000	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.56138.56	0.13	0.04	0.50	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
531	485.900	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.50138.50	0.13	0.04	0.50	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
532	485.800	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.45138.45	0.13	0.04	0.50	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
533	485.700	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.40138.40	0.13	0.04	0.50	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
534	485.600	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.35138.35	0.13	0.04	0.50	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
535	485.500	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.30138.30	0.13	0.04	0.50	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
536	485.400	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.24138.24	0.13	0.04	0.50	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
537	485.300	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.19138.19	0.13	0.04	0.50	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
538	485.200	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.14138.14	0.13	0.04	0.50	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
539	485.100	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.09138.09	0.13	0.04	0.50	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
540	485.000	7.27	9.71	0.52	0.09	0.00	0.00	0.00	0.00138.00138.00	0.13	0.04	0.50	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00

.....EXECUTION COMPLETED