

~Version Information

VERS. 2.00: CWLS log ASCII Standard -VERSION 2.00
 WRAP. NO: One line per frame

~Well Information Block

#MNEM.UNIT	Data	Description
STRT.FT	1262.500	: Starting Depth
STOP.FT	2716.500	: Ending Depth
STEP.FT	0.500	: Level Spacing
NULL.	-999.2500	: Absent Value
COMP.		: Company
WELL.	CATOOSA TEST #2	: Well
FLD.	CATOOSA	: Field
LOC.		: Location
PROV.	PAWNEE	: County
CTRY.	XX	: Country
SRVC.	Baker Hughes	: Service Company
DATE.	18-Sep-2020	: Log Date
UWI.		: Unique Well ID
LIC.		: License Number

~Curve Information Block

#MNEM .UNIT	API Codes	Curve Description
DEPT .FT	0 1 0 0	: Depth
BVOL .ft3	70 995 99 1	: Borehole volume
CAL .in	70 280 99 1	: Caliper
CNC .pu	42 995 99 1	: Borehole size corrected compensated neutron porosity
CVOL .ft3	70 995 99 1	: Cement volume
GR .gAPI	30 310 1 1	: Gamma ray
PE .b/e	45 358 1 1	: Photo electric cross-section
PORZC .pu	99 995 99 1	: Corrected porosity
TEN .lbf	99 635 99 1	: Differential tension
ZCOR .g/cm3	45 356 99 1	: Density correction

~Parameter Information Block

#MNEM.UNIT	Value	Description
HIDE.	COMPENSATED Z-DENSILOG^S	: Header Identifier
HID1.	COMPENSATED NEUTRON LOG	: Header Identifier
HID2.	GAMMA RAY LOG	: Header Identifier
STAT.	OKLAHOMA	: State Or Province
OS1.	BHP	: Other Services Line 1
OS2.	HDIL/GR	: Other Services Line 2
PDAT.	GL	: Permanent Datum
EPD.FT	999	: Elevation Of Perm. Datum
LMF.	KB	: Log Measured From
APD.FT	22	: Above Permanent Datum
DMF.	KB	: Drilling Measured From
EKB.FT	1021	: Elevation Of Kelly Bushing
EDF.FT	1020	: Elevation Of Derrick Floor
EGL.FT	999	: Elevation Of Ground Level
RUN.	1	: Run Number
TRIP.	1	: Trip Number
SON.	171956	: Service Order Number

TDD .FT 2711 : Total Depth - Driller
TDL .FT 2711 : Total Depth - Logger
BLI .FT 2708 : Bottom Log Interval
TLI .FT 1300 : Top Log Interval
CSIZ.IN 9.625 : Casing Size
CBDR.FT 789 : Casing Bottom - Driller
BS .IN 6.125 : Bit Size
DFT . WBM : Drilling Fluid Type
DFD .LB/G 9.5 : Drilling Fluid Density
DFV .CP 37 : Drilling Fluid Viscosity
DFPH. 8.9 : Drilling Fluid Ph
DFL .C3 19 : Drilling Fluid Loss
MSS . FLOWLINE : Mud Sample Source
RMS .OHMM 1.363 : Resistivity Of Mud Sample
MST .DEGF 75 : Mud Sample Temperature
RMFS.OHMM 1.064 : Resistivity Of Mud Filtrate Sample
MFST.DEGF 75 : Mud Filtrate Sample Temperature
RMCS.OHMM 1.704 : Resistivity Of Mud Cake Sample
MCST.DEGF 75 : Mud Cake Sample Temperature
MFSS. CALCULATED : Mud Filtrate Sample Source
MCSS. CALCULATED : Mud Cake Sample Source
RMB .OHMM 0.924 : Mud Resistivity At Bht
BHT .DEGF 0.924 : Bottom Hole Temperature
TSC . 13 00 : Time Since Circulation
MRT .DEGF 114 : Maximum Recorded Temperature
LUN . HL-6845 : Logging Unit Number
LUL . VICTORIA,TX : Logging Unit Location
ENGI. R. ZUNIGA : Engineer's Name
WITN. RAMIL HASSANLI : Witness' Name
TSTR. ZDL/CN/GR : Title Service Mnemonic
TSTG. NA : Title Service Mnemonic
STUS. FINAL : Status
LCNM. Baker Hughes : Logging Company Name
LCC . 150 : Logging Company Code
OPMD. OH.WIRE : Operation Mode
PANA. R. ZUNIGA : Processing Analyst
PCON. Baker Hughes : Processing Contractor
APIN. : API Serial Number
LATI.DEG 0.0000 : Latitude
LONG.DEG 0.0000 : Longitude

~Other information

DENSITY MATRIX = LIMESTONE, 2.71 G/CC

NEUTRON MATRIX = LIMESTONE

HL-6845 R. ZUNIGA, L. ULLMANN, K. HADSALL

Curve Data

~A DEPT	BVOL	CAL	CNC	CVOL	GR	PE	PORZC	TEN	ZCOR
1262.500	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250
1263.000	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250
1263.500	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250
1264.000	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250
1264.500	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250
1265.000	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250
1265.500	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250
1266.000	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250

1293.500	-999.250	-999.250	-999.250	-999.250	113.299	-999.250	-999.250	-999.250	-999.250
1294.000	-999.250	-999.250	-999.250	-999.250	110.707	-999.250	-999.250	-999.250	-999.250
1294.500	-999.250	-999.250	-999.250	-999.250	110.937	-999.250	-999.250	-999.250	-999.250
1295.000	-999.250	-999.250	-999.250	-999.250	113.747	-999.250	-999.250	-999.250	-999.250
1295.500	-999.250	8.595	31.397	-999.250	116.416	-999.250	-999.250	-999.250	-999.250
1296.000	-999.250	8.598	31.135	-999.250	118.583	-999.250	-999.250	-999.250	-999.250
1296.500	296.338	8.593	30.917	296.338	121.183	-999.250	-999.250	-999.250	-999.250
1297.000	296.137	8.581	32.055	296.137	122.992	3.339	-999.250	-999.250	-999.250
1297.500	295.936	8.580	33.958	295.936	122.432	3.333	-999.250	-26.819	-999.250
1298.000	295.735	8.589	34.370	295.735	119.815	3.141	-999.250	-23.897	-999.250
1298.500	295.534	8.587	33.117	295.534	117.212	2.986	10.844	-19.647	0.004
1299.000	295.333	8.575	30.945	295.333	116.160	2.992	10.847	-25.153	0.001
1299.500	295.133	8.573	28.679	295.133	115.694	3.052	10.790	-36.435	-0.001
1300.000	294.932	8.589	27.964	294.932	114.227	3.043	10.614	-37.554	-0.001
1300.500	294.731	8.600	29.049	294.731	112.005	2.959	10.328	-28.755	0.002
1301.000	294.529	8.589	29.950	294.529	111.247	2.877	10.000	-26.684	0.005
1301.500	294.328	8.574	29.430	294.328	112.145	2.866	10.030	-32.779	0.006
1302.000	294.128	8.587	27.983	294.128	112.385	2.889	10.759	-36.912	0.003
1302.500	293.926	8.614	26.769	293.926	109.578	2.886	11.659	-35.722	-0.002
1303.000	293.724	8.624	26.137	293.724	103.941	2.887	11.882	-34.364	-0.002
1303.500	293.521	8.618	25.414	293.521	99.177	2.924	11.383	-33.767	-0.001
1304.000	293.318	8.620	24.796	293.318	100.531	2.964	10.699	-31.730	0.001
1304.500	293.116	8.620	25.801	293.116	107.397	3.049	10.260	-30.381	0.001
1305.000	292.913	8.600	28.730	292.913	112.900	3.191	10.150	-29.732	-0.000
1305.500	292.712	8.575	32.579	292.712	113.375	3.183	10.305	-26.802	-0.003
1306.000	292.511	8.575	35.384	292.511	113.652	2.961	10.463	-21.658	-0.004
1306.500	292.311	8.586	34.478	292.311	116.788	2.804	10.386	-18.814	-0.004
1307.000	292.110	8.583	32.158	292.110	120.399	2.911	10.395	-19.828	-0.004
1307.500	291.909	8.576	31.220	291.909	121.743	3.190	10.835	-22.236	-0.005
1308.000	291.708	8.587	30.151	291.708	119.286	3.393	11.387	-22.233	-0.007
1308.500	291.507	8.612	28.247	291.507	112.663	3.332	11.574	-18.067	-0.006
1309.000	291.304	8.630	27.839	291.304	106.285	3.051	11.448	-15.914	-0.002
1309.500	291.101	8.626	28.553	291.101	105.083	2.788	11.373	-21.445	0.002
1310.000	290.898	8.606	27.359	290.898	106.752	2.701	11.565	-29.058	0.004
1310.500	290.697	8.588	24.146	290.697	106.650	2.790	11.906	-32.407	0.001
1311.000	290.496	8.578	21.706	290.496	103.137	2.990	12.049	-31.880	-0.003
1311.500	290.295	8.570	21.447	290.295	98.485	3.157	11.887	-31.150	-0.006
1312.000	290.095	8.569	23.056	290.095	95.753	3.097	11.774	-30.623	-0.007
1312.500	289.895	8.583	25.377	289.895	97.553	2.881	11.964	-29.707	-0.006
1313.000	289.693	8.607	27.601	289.693	101.349	2.780	12.249	-26.302	-0.006
1313.500	289.491	8.616	30.571	289.491	104.404	2.850	12.320	-23.345	-0.005
1314.000	289.289	8.612	34.136	289.289	108.330	2.930	11.985	-23.654	-0.005
1314.500	289.087	8.605	35.740	289.087	113.539	2.930	11.241	-24.718	-0.004
1315.000	288.885	8.582	35.472	288.885	116.533	2.926	10.538	-24.194	-0.003
1315.500	288.685	8.530	35.203	288.685	116.701	2.993	10.223	-23.730	-0.002
1316.000	288.487	8.474	34.653	288.487	115.451	3.073	10.156	-26.012	0.000
1316.500	288.291	8.439	33.687	288.291	113.781	3.073	10.233	-33.051	0.003
1317.000	288.098	8.412	31.805	288.098	113.220	3.066	10.394	-38.950	0.004
1317.500	287.905	8.380	28.477	287.905	113.001	3.078	10.608	-38.526	0.003
1318.000	287.714	8.347	26.158	287.714	110.095	2.974	11.086	-30.322	-0.001
1318.500	287.524	8.298	26.557	287.524	105.803	2.824	11.535	-25.380	-0.007
1319.000	287.337	8.216	28.100	287.337	103.341	2.830	11.639	-28.319	-0.010
1319.500	287.154	8.151	27.725	287.154	102.586	2.889	11.576	-30.994	-0.010
1320.000	286.973	8.163	25.702	286.973	102.396	2.800	11.394	-24.519	-0.009

1320.500	286.791	8.226	24.968	286.791	103.733	2.698	10.932	-16.396	-0.006
1321.000	286.605	8.274	26.350	286.605	106.894	2.772	10.656	-13.395	-0.004
1321.500	286.419	8.291	28.337	286.419	108.885	2.939	10.907	-11.113	-0.004
1322.000	286.231	8.292	29.040	286.231	108.072	2.956	11.323	-5.614	-0.003
1322.500	286.044	8.265	28.580	286.044	108.304	2.751	11.534	1.934	-0.001
1323.000	285.858	8.199	27.778	285.858	111.575	2.548	11.294	5.870	0.004
1323.500	285.676	8.096	28.285	285.676	114.104	2.557	10.509	1.060	0.010
1324.000	285.498	7.969	30.058	285.498	114.585	2.714	9.681	-10.756	0.015
1324.500	285.327	7.850	30.349	285.327	115.220	2.853	9.493	-17.989	0.014
1325.000	285.159	7.778	29.028	285.159	116.558	2.981	9.841	-16.669	0.010
1325.500	284.995	7.757	28.852	284.995	117.400	3.132	10.267	-16.169	0.007
1326.000	284.831	7.772	29.780	284.831	118.003	3.219	10.769	-21.723	0.005
1326.500	284.666	7.812	30.573	284.666	119.482	3.240	11.199	-27.048	0.004
1327.000	284.499	7.849	31.541	284.499	121.395	3.297	11.184	-26.721	0.003
1327.500	284.330	7.866	32.536	284.330	121.840	3.354	10.994	-21.145	0.002
1328.000	284.161	7.903	33.261	284.161	120.952	3.229	10.960	-15.211	0.001
1328.500	283.990	8.010	33.678	283.990	120.683	2.969	10.555	-8.370	0.003
1329.000	283.814	8.160	33.108	283.814	120.775	2.856	9.650	0.043	0.010
1329.500	283.630	8.280	30.906	283.630	120.123	2.995	9.234	8.652	0.014
1330.000	283.443	8.333	28.861	283.443	120.128	3.182	9.671	8.681	0.012
1330.500	283.253	8.336	28.606	283.253	121.277	3.197	10.129	2.862	0.010
1331.000	283.064	8.324	30.227	283.064	121.294	3.105	10.108	2.862	0.012
1331.500	282.875	8.320	32.480	282.875	119.922	3.075	9.951	11.660	0.014
1332.000	282.686	8.328	34.282	282.686	120.382	3.120	10.001	12.337	0.013
1332.500	282.497	8.339	35.531	282.497	122.267	3.148	10.217	-3.680	0.010
1333.000	282.307	8.337	35.905	282.307	122.804	3.123	10.379	-19.940	0.008
1333.500	282.118	8.325	36.418	282.118	123.055	3.055	10.327	-24.229	0.009
1334.000	281.929	8.317	37.127	281.929	123.060	3.017	10.082	-23.946	0.011
1334.500	281.740	8.321	37.226	281.740	120.944	3.096	9.899	-26.318	0.011
1335.000	281.551	8.319	36.899	281.551	118.881	3.246	10.011	-28.256	0.008
1335.500	281.363	8.301	36.015	281.363	119.623	3.328	10.321	-31.005	0.003
1336.000	281.175	8.313	34.297	281.175	120.558	3.279	10.568	-36.686	-0.000
1336.500	280.986	8.382	33.256	280.986	119.256	3.152	10.584	-40.239	-0.001
1337.000	280.793	8.458	32.744	280.793	116.838	3.052	10.391	-38.280	-0.000
1337.500	280.598	8.492	31.809	280.598	113.731	3.048	10.157	-35.132	0.001
1338.000	280.401	8.493	31.620	280.401	110.846	3.109	10.321	-32.878	-0.001
1338.500	280.204	8.485	32.017	280.204	110.391	3.175	10.843	-24.652	-0.003
1339.000	280.008	8.483	31.752	280.008	112.881	3.202	11.099	-12.126	-0.004
1339.500	279.812	8.467	31.048	279.812	116.188	3.164	10.843	-11.725	-0.002
1340.000	279.617	8.398	30.580	279.617	118.906	3.012	10.638	-22.912	-0.000
1340.500	279.426	8.309	30.613	279.426	120.086	2.793	10.784	-26.122	-0.001
1341.000	279.238	8.265	31.125	279.238	120.104	2.639	10.938	-20.652	-0.002
1341.500	279.052	8.261	30.790	279.052	120.201	2.578	10.923	-24.177	-0.003
1342.000	278.866	8.258	29.421	278.866	120.606	2.522	10.867	-35.320	-0.003
1342.500	278.680	8.267	29.097	278.680	119.621	2.510	10.878	-38.179	-0.003
1343.000	278.493	8.332	30.987	278.493	116.184	2.659	11.023	-30.285	-0.004
1343.500	278.302	8.443	33.641	278.302	112.422	2.905	11.314	-19.420	-0.006
1344.000	278.107	8.534	34.274	278.107	111.116	3.033	11.584	-5.168	-0.007
1344.500	277.908	8.566	33.383	277.908	111.702	3.014	11.514	11.725	-0.005
1345.000	277.707	8.563	33.547	277.707	113.642	3.059	11.085	21.614	-0.002
1345.500	277.508	8.553	34.633	277.508	117.438	3.252	10.819	21.120	0.000
1346.000	277.308	8.548	34.631	277.308	119.690	3.434	11.098	19.362	-0.001
1346.500	277.109	8.548	33.879	277.109	118.535	3.492	11.517	14.400	-0.003
1347.000	276.910	8.554	33.967	276.910	118.999	3.383	11.622	-1.837	-0.003

1347.500	276.710	8.562	34.420	276.710	121.359	3.141	11.294	-20.265	-0.002
1348.000	276.510	8.563	34.303	276.510	121.522	2.989	10.720	-28.671	0.001
1348.500	276.310	8.558	34.658	276.310	120.939	3.089	10.436	-28.563	0.002
1349.000	276.110	8.560	35.623	276.110	123.414	3.319	10.713	-24.836	0.001
1349.500	275.911	8.564	35.324	275.911	126.263	3.461	10.920	-22.833	-0.001
1350.000	275.711	8.566	33.346	275.711	126.018	3.444	10.659	-26.245	0.001
1350.500	275.510	8.576	32.016	275.510	123.081	3.325	10.199	-28.663	0.004
1351.000	275.310	8.594	32.269	275.310	119.927	3.195	9.849	-28.110	0.007
1351.500	275.108	8.600	33.658	275.108	119.404	3.113	9.703	-26.553	0.008
1352.000	274.906	8.589	35.725	274.906	121.166	3.080	9.776	-22.118	0.008
1352.500	274.705	8.570	37.051	274.705	122.708	3.147	9.964	-16.911	0.006
1353.000	274.505	8.554	35.985	274.505	122.839	3.356	10.419	-17.273	0.003
1353.500	274.306	8.553	34.000	274.306	123.065	3.545	11.127	-21.334	-0.002
1354.000	274.106	8.561	33.845	274.106	124.636	3.488	11.417	-22.640	-0.003
1354.500	273.906	8.565	35.778	273.906	126.410	3.323	10.878	-21.400	-0.001
1355.000	273.706	8.567	37.468	273.706	126.732	3.350	10.101	-22.293	0.003
1355.500	273.506	8.571	37.142	273.506	125.674	3.515	9.984	-25.694	0.005
1356.000	273.306	8.554	35.354	273.306	124.967	3.556	10.407	-28.200	0.005
1356.500	273.107	8.504	33.881	273.107	124.158	3.491	10.692	-29.355	0.006
1357.000	272.910	8.455	32.976	272.910	122.575	3.471	10.648	-31.458	0.008
1357.500	272.716	8.435	32.591	272.716	122.543	3.510	10.465	-32.064	0.008
1358.000	272.522	8.401	32.435	272.522	124.898	3.527	10.335	-30.953	0.010
1358.500	272.330	8.311	32.748	272.330	126.294	3.442	10.646	-31.190	0.014
1359.000	272.143	8.184	32.712	272.143	124.806	3.275	11.554	-35.726	0.023
1359.500	271.962	8.054	31.713	271.962	122.469	3.167	12.370	-42.495	0.038
1360.000	271.787	7.941	31.228	271.787	121.714	3.183	12.393	-45.994	0.057
1360.500	271.616	7.849	32.735	271.616	122.331	3.244	11.717	-44.376	0.073
1361.000	271.449	7.750	35.364	271.449	122.274	3.236	11.023	-41.295	0.086
1361.500	271.286	7.594	35.845	271.286	121.807	3.161	11.111	-39.318	0.097
1362.000	271.131	7.334	34.473	271.131	123.626	3.047	12.437	-39.737	0.108
1362.500	270.988	6.945	34.095	270.988	126.218	2.918	14.419	-43.851	0.120
1363.000	270.861	6.536	34.623	270.861	126.803	2.807	15.682	-49.101	0.131
1363.500	270.747	6.281	33.949	270.747	127.969	2.748	15.126	-51.073	0.135
1364.000	270.640	6.212	32.713	270.640	132.315	2.778	12.808	-48.142	0.126
1364.500	270.535	6.209	32.226	270.535	136.979	2.953	10.062	-42.501	0.101
1365.000	270.430	6.206	32.687	270.430	139.141	3.188	8.819	-38.359	0.065
1365.500	270.325	6.207	33.549	270.325	138.989	3.287	9.488	-35.976	0.031
1366.000	270.220	6.216	33.802	270.220	137.556	3.235	10.503	-27.925	0.010
1366.500	270.114	6.224	33.608	270.114	136.943	3.145	10.631	-14.287	0.004
1367.000	270.009	6.233	33.964	270.009	137.737	3.130	10.118	-12.443	0.005
1367.500	269.902	6.264	34.537	269.902	137.987	3.197	9.744	-25.514	0.010
1368.000	269.795	6.314	34.332	269.795	136.834	3.182	9.496	-35.179	0.019
1368.500	269.686	6.357	33.957	269.686	136.178	3.021	8.905	-31.219	0.030
1369.000	269.575	6.376	34.227	269.575	137.144	2.943	8.235	-23.496	0.036
1369.500	269.465	6.385	34.807	269.465	138.807	3.082	8.205	-17.908	0.031
1370.000	269.353	6.408	34.147	269.353	140.301	3.186	8.857	-17.099	0.019
1370.500	269.241	6.426	32.502	269.241	141.660	3.061	9.442	-19.054	0.009
1371.000	269.128	6.413	31.328	269.128	142.342	2.921	9.341	-19.429	0.005
1371.500	269.016	6.391	30.309	269.016	141.133	2.997	8.858	-19.719	0.007
1372.000	268.905	6.391	29.136	268.905	139.835	3.213	8.853	-24.653	0.008
1372.500	268.794	6.407	29.212	268.794	141.008	3.337	9.396	-29.931	0.006
1373.000	268.682	6.419	30.643	268.682	142.388	3.236	9.746	-31.639	0.003
1373.500	268.569	6.421	31.933	268.569	141.361	3.019	9.697	-33.998	0.000
1374.000	268.457	6.418	32.856	268.457	139.179	2.919	9.679	-33.872	-0.002

1374.500	268.344	6.412	34.199	268.344	138.328	3.003	9.873	-24.947	-0.005
1375.000	268.232	6.413	35.171	268.232	138.472	3.142	9.875	-13.214	-0.005
1375.500	268.120	6.431	34.507	268.120	139.081	3.221	9.474	-5.530	-0.002
1376.000	268.007	6.454	32.980	268.007	140.278	3.255	9.087	-0.498	0.002
1376.500	267.893	6.467	32.504	267.893	141.475	3.319	9.142	-0.874	0.005
1377.000	267.779	6.472	33.690	267.779	142.044	3.450	9.520	-7.282	0.005
1377.500	267.665	6.480	34.836	267.665	142.164	3.515	9.842	-16.623	0.004
1378.000	267.550	6.489	34.420	267.550	140.618	3.371	9.813	-23.191	0.003
1378.500	267.435	6.495	33.215	267.435	137.108	3.213	9.449	-30.225	0.004
1379.000	267.320	6.506	33.195	267.320	134.591	3.270	9.337	-38.794	0.003
1379.500	267.205	6.507	34.013	267.205	135.291	3.421	9.755	-43.190	-0.001
1380.000	267.090	6.490	33.685	267.090	136.463	3.494	9.979	-40.179	-0.004
1380.500	266.975	6.472	32.130	266.975	137.302	3.484	9.603	-36.938	-0.002
1381.000	266.861	6.475	31.787	266.861	138.980	3.378	9.159	-34.584	0.000
1381.500	266.746	6.488	33.180	266.746	140.752	3.198	9.110	-29.316	0.003
1382.000	266.631	6.500	35.170	266.631	140.863	3.129	9.137	-24.648	0.006
1382.500	266.516	6.507	36.342	266.516	140.230	3.273	8.987	-24.979	0.010
1383.000	266.400	6.514	35.840	266.400	139.193	3.498	9.098	-29.943	0.011
1383.500	266.285	6.506	34.135	266.285	136.818	3.606	9.721	-35.922	0.007
1384.000	266.170	6.482	32.574	266.170	134.799	3.556	10.359	-37.074	0.001
1384.500	266.055	6.470	32.215	266.055	136.011	3.415	10.486	-33.564	-0.002
1385.000	265.941	6.483	33.130	265.941	140.022	3.256	10.204	-30.637	-0.000
1385.500	265.826	6.505	34.209	265.826	142.066	3.159	9.677	-31.218	0.004
1386.000	265.711	6.514	33.499	265.711	140.754	3.155	9.296	-33.470	0.007
1386.500	265.595	6.508	31.853	265.595	138.499	3.168	9.267	-32.374	0.005
1387.000	265.480	6.485	31.321	265.480	137.609	3.162	9.330	-27.681	0.001
1387.500	265.365	6.452	32.052	265.365	136.860	3.171	9.340	-27.317	-0.001
1388.000	265.252	6.421	33.012	265.252	135.641	3.176	9.419	-30.463	-0.001
1388.500	265.140	6.404	34.321	265.140	135.810	3.108	9.430	-30.776	0.002
1389.000	265.028	6.391	35.341	265.028	137.312	2.975	9.290	-30.412	0.007
1389.500	264.917	6.382	35.070	264.917	138.327	2.877	9.161	-33.016	0.008
1390.000	264.806	6.395	34.662	264.806	140.187	2.888	9.173	-35.838	0.006
1390.500	264.694	6.422	34.854	264.694	143.176	2.953	9.437	-36.860	0.003
1391.000	264.581	6.435	35.138	264.581	143.602	3.001	9.943	-38.282	0.002
1391.500	264.468	6.427	34.700	264.468	141.052	3.096	10.417	-39.439	0.003
1392.000	264.356	6.414	33.691	264.356	138.537	3.298	10.568	-42.538	0.005
1392.500	264.244	6.406	33.198	264.244	137.299	3.531	10.351	-50.033	0.006
1393.000	264.132	6.401	34.111	264.132	137.517	3.629	10.082	-55.726	0.004
1393.500	264.020	6.389	35.434	264.020	138.571	3.558	9.970	-52.640	0.002
1394.000	263.909	6.375	34.768	263.909	138.738	3.428	9.850	-44.665	0.002
1394.500	263.798	6.374	32.874	263.798	138.316	3.284	9.562	-38.224	0.005
1395.000	263.687	6.378	32.208	263.687	137.154	3.124	9.078	-37.468	0.009
1395.500	263.576	6.378	33.381	263.576	135.693	3.016	8.463	-41.880	0.013
1396.000	263.465	6.381	34.537	263.465	135.851	3.023	8.020	-46.210	0.014
1396.500	263.354	6.374	34.655	263.354	138.368	3.150	8.140	-50.042	0.012
1397.000	263.244	6.352	32.943	263.244	139.945	3.306	8.952	-54.869	0.007
1397.500	263.134	6.340	30.440	263.134	138.780	3.310	9.975	-56.941	0.006
1398.000	263.024	6.345	29.228	263.024	135.646	3.158	10.440	-54.724	0.011
1398.500	262.914	6.342	29.128	262.914	133.209	3.081	10.349	-49.891	0.020
1399.000	262.805	6.330	29.025	262.805	132.390	3.160	10.271	-42.517	0.022
1399.500	262.696	6.322	29.383	262.696	133.073	3.215	10.229	-37.937	0.017
1400.000	262.587	6.325	30.097	262.587	134.640	3.183	9.817	-41.425	0.012
1400.500	262.477	6.333	30.345	262.477	136.676	3.179	9.204	-41.382	0.010
1401.000	262.368	6.335	30.637	262.368	138.107	3.239	8.823	-28.535	0.009

1401.500	262.259	6.324	31.567	262.259	139.430	3.364	8.694	-10.659	0.008
1402.000	262.150	6.314	32.347	262.150	140.887	3.516	8.882	-1.732	0.006
1402.500	262.041	6.315	33.049	262.041	141.319	3.561	9.414	1.395	0.004
1403.000	261.932	6.321	33.911	261.932	140.138	3.498	9.885	4.014	0.002
1403.500	261.823	6.325	34.647	261.823	137.552	3.484	10.082	3.854	0.002
1404.000	261.714	6.333	34.777	261.714	135.860	3.525	10.321	-2.741	-0.000
1404.500	261.605	6.338	33.331	261.605	136.818	3.480	10.623	-11.151	-0.002
1405.000	261.495	6.337	31.079	261.495	138.377	3.306	10.672	-17.982	-0.002
1405.500	261.386	6.333	30.460	261.386	138.604	3.097	10.144	-21.600	0.003
1406.000	261.276	6.331	31.957	261.276	138.969	2.974	9.179	-24.305	0.013
1406.500	261.167	6.335	33.446	261.167	140.340	2.996	8.651	-32.282	0.019
1407.000	261.057	6.334	33.478	261.057	140.697	3.087	8.901	-39.416	0.018
1407.500	260.948	6.326	33.300	260.948	137.538	3.098	9.214	-38.654	0.014
1408.000	260.839	6.323	33.252	260.839	133.872	2.979	9.023	-36.444	0.013
1408.500	260.730	6.331	32.382	260.730	134.739	2.833	8.650	-37.725	0.016
1409.000	260.621	6.344	31.844	260.621	139.186	2.800	8.351	-35.028	0.019
1409.500	260.511	6.352	33.421	260.511	141.242	2.905	8.235	-26.205	0.020
1410.000	260.401	6.353	35.430	260.401	139.618	3.090	8.682	-19.656	0.018
1410.500	260.291	6.347	35.054	260.291	137.748	3.297	9.548	-20.722	0.013
1411.000	260.181	6.332	33.611	260.181	138.658	3.487	9.991	-21.682	0.011
1411.500	260.072	6.321	33.349	260.072	140.474	3.638	9.791	-18.824	0.013
1412.000	259.963	6.321	33.607	259.963	139.561	3.790	9.667	-19.116	0.014
1412.500	259.854	6.327	33.630	259.854	137.244	3.810	10.050	-26.127	0.011
1413.000	259.744	6.332	34.158	259.744	137.159	3.520	10.278	-30.776	0.011
1413.500	259.635	6.337	35.799	259.635	138.468	3.119	9.792	-30.189	0.015
1414.000	259.526	6.339	38.019	259.526	140.132	2.918	9.142	-29.145	0.019
1414.500	259.416	6.340	39.305	259.416	143.573	2.949	8.900	-30.660	0.018
1415.000	259.306	6.348	39.180	259.306	147.147	3.100	8.980	-37.160	0.015
1415.500	259.196	6.356	38.328	259.196	147.092	3.228	9.276	-47.420	0.013
1416.000	259.086	6.357	38.349	259.086	145.102	3.245	9.630	-51.095	0.011
1416.500	258.976	6.347	39.141	258.976	144.741	3.231	9.701	-41.264	0.012
1417.000	258.866	6.335	39.576	258.866	145.201	3.300	9.515	-24.823	0.013
1417.500	258.757	6.335	38.103	258.757	143.721	3.431	9.466	-10.457	0.013
1418.000	258.647	6.341	35.969	258.647	140.489	3.464	9.918	-1.568	0.016
1418.500	258.538	6.338	34.775	258.538	138.241	3.337	10.613	-4.711	0.026
1419.000	258.428	6.330	34.617	258.428	138.238	3.165	10.922	-17.620	0.042
1419.500	258.319	6.316	34.673	258.319	139.817	3.086	10.783	-26.173	0.053
1420.000	258.211	6.290	34.637	258.211	141.616	3.146	10.641	-22.746	0.050
1420.500	258.103	6.258	34.421	258.103	143.151	3.250	10.856	-19.949	0.033
1421.000	257.996	6.221	33.646	257.996	144.071	3.240	11.340	-23.608	0.013
1421.500	257.891	6.183	32.894	257.891	141.987	3.111	11.465	-28.929	-0.000
1422.000	257.787	6.155	32.168	257.787	134.075	3.008	10.573	-34.233	-0.001
1422.500	257.684	6.142	30.378	257.684	120.532	3.091	8.757	-41.301	0.005
1423.000	257.581	6.142	26.900	257.581	105.283	3.369	6.769	-48.614	0.013
1423.500	257.478	6.143	22.388	257.478	92.244	3.505	5.819	-55.858	0.016
1424.000	257.375	6.134	18.942	257.375	82.521	3.274	6.400	-62.782	0.015
1424.500	257.273	6.124	17.129	257.273	76.652	2.978	7.641	-65.217	0.016
1425.000	257.171	6.123	16.552	257.171	76.754	2.844	8.647	-62.051	0.021
1425.500	257.068	6.131	16.814	257.068	81.078	2.779	9.394	-54.122	0.028
1426.000	256.966	6.144	17.479	256.966	83.755	2.688	9.908	-48.381	0.033
1426.500	256.863	6.141	17.412	256.863	79.883	2.636	9.658	-46.305	0.035
1427.000	256.760	6.091	16.024	256.760	68.962	2.693	8.142	-42.720	0.037
1427.500	256.660	6.013	13.917	256.660	53.759	2.832	5.659	-33.282	0.038
1428.000	256.562	5.959	11.884	256.562	39.198	3.001	3.153	-23.025	0.036

1428.500	256.465	5.942	10.472	256.465	29.074	3.157	1.367	-16.912	0.032
1429.000	256.369	5.941	9.777	256.369	23.708	3.334	0.352	-14.414	0.028
1429.500	256.272	5.942	9.478	256.272	21.823	3.618	0.121	-18.289	0.026
1430.000	256.176	5.945	9.352	256.176	21.821	3.851	0.789	-28.507	0.025
1430.500	256.080	5.949	9.313	256.080	22.899	3.708	2.125	-37.348	0.025
1431.000	255.983	5.956	9.230	255.983	24.401	3.335	3.703	-40.175	0.029
1431.500	255.886	5.968	8.998	255.886	25.998	3.085	4.948	-41.715	0.035
1432.000	255.789	5.981	8.576	255.789	28.128	3.018	5.049	-46.902	0.044
1432.500	255.691	5.983	8.371	255.691	31.602	3.019	4.414	-55.707	0.053
1433.000	255.594	5.972	9.053	255.594	36.009	2.925	5.678	-61.520	0.053
1433.500	255.497	5.953	10.921	255.497	40.898	2.704	10.132	-55.620	0.041
1434.000	255.400	5.940	13.158	255.400	46.018	2.509	15.254	-43.175	0.029
1434.500	255.304	5.938	14.497	255.304	50.316	2.434	18.715	-38.073	0.022
1435.000	255.208	5.949	14.802	255.208	51.879	2.424	20.145	-41.514	0.018
1435.500	255.111	5.964	14.502	255.111	50.883	2.390	19.867	-41.669	0.016
1436.000	255.014	5.984	14.380	255.014	51.252	2.333	18.290	-37.704	0.017
1436.500	254.916	6.012	15.066	254.916	59.296	2.321	16.025	-42.614	0.019
1437.000	254.817	6.057	16.761	254.817	79.445	2.389	13.765	-53.877	0.022
1437.500	254.717	6.109	19.579	254.717	105.062	2.507	11.910	-59.952	0.024
1438.000	254.615	6.147	22.859	254.615	121.873	2.629	10.713	-59.190	0.025
1438.500	254.511	6.164	24.794	254.511	124.427	2.737	10.268	-53.509	0.022
1439.000	254.408	6.161	24.873	254.408	119.057	2.801	10.275	-44.609	0.018
1439.500	254.304	6.142	24.099	254.304	112.699	2.807	10.162	-41.919	0.015
1440.000	254.202	6.128	23.087	254.202	108.912	2.787	9.774	-41.297	0.012
1440.500	254.099	6.129	22.109	254.099	107.606	2.791	9.482	-30.796	0.009
1441.000	253.997	6.137	21.399	253.997	106.922	2.824	9.564	-16.330	0.006
1441.500	253.894	6.142	21.449	253.894	106.903	2.834	9.665	-11.505	0.004
1442.000	253.791	6.142	21.952	253.791	106.769	2.838	9.264	-14.154	0.006
1442.500	253.688	6.137	22.094	253.688	105.012	2.972	8.653	-13.843	0.008
1443.000	253.586	6.143	22.081	253.586	103.690	3.258	8.698	-6.979	0.005
1443.500	253.483	6.165	22.604	253.483	104.084	3.468	9.175	1.671	-0.002
1444.000	253.379	6.179	23.108	253.379	103.606	3.417	8.915	6.445	-0.003
1444.500	253.275	6.171	22.822	253.275	101.372	3.214	7.952	6.280	0.002
1445.000	253.171	6.161	22.138	253.171	100.363	3.031	7.364	0.245	0.007
1445.500	253.067	6.164	21.972	253.067	102.305	2.870	7.674	-10.446	0.008
1446.000	252.964	6.170	22.612	252.964	105.307	2.691	8.362	-16.620	0.006
1446.500	252.860	6.169	23.548	252.860	107.289	2.551	9.096	-13.641	0.004
1447.000	252.756	6.163	24.047	252.756	109.541	2.563	9.646	-8.618	0.003
1447.500	252.653	6.164	23.847	252.653	111.966	2.742	9.946	-4.622	0.003
1448.000	252.549	6.173	23.210	252.549	114.759	2.959	10.241	2.239	0.001
1448.500	252.445	6.171	23.175	252.445	117.849	3.105	10.477	10.798	-0.001
1449.000	252.341	6.152	23.992	252.341	119.050	3.199	10.511	14.094	-0.002
1449.500	252.238	6.130	24.632	252.238	117.262	3.232	10.536	13.322	-0.003
1450.000	252.136	6.125	24.377	252.136	116.478	3.184	10.612	11.963	-0.004
1450.500	252.033	6.136	24.180	252.033	118.949	3.129	10.391	9.043	-0.003
1451.000	251.931	6.146	25.129	251.931	121.434	3.082	9.923	4.800	-0.001
1451.500	251.828	6.149	26.549	251.828	120.889	2.986	9.760	-0.103	-0.001
1452.000	251.724	6.148	26.707	251.724	118.892	2.858	9.971	-4.992	-0.002
1452.500	251.621	6.146	25.887	251.621	118.278	2.773	10.067	-7.827	-0.002
1453.000	251.518	6.142	25.314	251.518	117.438	2.734	9.885	-9.777	-0.001
1453.500	251.416	6.154	25.102	251.416	115.988	2.734	9.733	-12.330	0.000
1454.000	251.312	6.179	25.181	251.312	116.523	2.775	9.875	-10.436	-0.000
1454.500	251.208	6.199	25.675	251.208	119.236	2.809	10.047	-2.612	-0.001
1455.000	251.103	6.198	26.543	251.103	120.668	2.793	9.949	2.753	0.000

1455.500	250.998	6.184	27.093	250.998	121.043	2.797	9.737	2.014	0.002
1456.000	250.894	6.163	26.618	250.894	121.729	2.922	9.662	0.983	0.002
1456.500	250.791	6.139	25.978	250.791	121.694	3.108	9.609	2.820	0.001
1457.000	250.688	6.124	25.994	250.688	120.369	3.200	9.485	2.222	0.000
1457.500	250.586	6.126	25.794	250.586	119.792	3.102	9.361	-2.920	0.000
1458.000	250.483	6.141	25.809	250.483	120.855	2.913	9.122	-7.871	0.002
1458.500	250.380	6.156	27.128	250.380	121.695	2.832	8.735	-10.864	0.005
1459.000	250.277	6.163	28.322	250.277	122.488	2.861	8.546	-14.200	0.005
1459.500	250.173	6.159	27.777	250.173	123.913	2.805	8.846	-18.428	0.003
1460.000	250.070	6.149	27.325	250.070	126.891	2.670	9.389	-20.388	-0.001
1460.500	249.967	6.135	28.221	249.967	130.862	2.665	9.895	-17.166	-0.003
1461.000	249.865	6.130	28.992	249.865	133.673	2.812	10.442	-9.887	-0.005
1461.500	249.762	6.142	28.209	249.762	133.782	2.992	10.785	-2.536	-0.006
1462.000	249.659	6.161	26.712	249.659	131.937	3.180	10.727	0.495	-0.005
1462.500	249.555	6.178	26.226	249.555	130.574	3.393	10.671	-4.057	-0.004
1463.000	249.451	6.192	26.953	249.451	130.386	3.489	10.874	-11.244	-0.005
1463.500	249.346	6.203	27.488	249.346	130.240	3.357	10.916	-12.679	-0.006
1464.000	249.241	6.200	27.273	249.241	129.422	3.162	10.616	-8.245	-0.004
1464.500	249.137	6.189	27.143	249.137	128.474	3.062	10.381	-8.419	-0.001
1465.000	249.032	6.175	27.228	249.032	127.447	2.985	10.375	-13.528	0.001
1465.500	248.928	6.170	26.749	248.928	126.079	2.889	10.344	-16.464	0.003
1466.000	248.825	6.170	25.518	248.825	123.965	2.877	10.230	-15.195	0.004
1466.500	248.721	6.164	24.330	248.721	120.755	2.986	10.285	-8.649	0.003
1467.000	248.617	6.155	23.841	248.617	118.469	3.144	10.506	0.870	-0.000
1467.500	248.514	6.156	24.184	248.514	118.764	3.299	10.542	1.564	-0.002
1468.000	248.411	6.161	25.517	248.411	120.628	3.390	10.359	-6.414	-0.002
1468.500	248.307	6.167	27.558	248.307	123.803	3.360	10.268	-11.387	-0.003
1469.000	248.203	6.171	28.733	248.203	128.440	3.303	10.460	-8.935	-0.004
1469.500	248.099	6.169	28.407	248.099	131.509	3.294	10.548	-2.661	-0.004
1470.000	247.996	6.168	27.643	247.996	129.834	3.245	10.015	4.971	0.000
1470.500	247.892	6.173	27.041	247.892	125.050	3.094	8.910	9.526	0.008
1471.000	247.788	6.172	26.494	247.788	123.112	2.960	8.323	7.527	0.014
1471.500	247.684	6.160	26.443	247.684	126.541	2.954	8.798	3.453	0.014
1472.000	247.581	6.152	27.231	247.581	130.760	3.038	9.662	0.831	0.011
1472.500	247.478	6.156	28.381	247.478	133.042	3.093	10.065	-1.845	0.009
1473.000	247.374	6.161	29.027	247.374	135.701	3.077	9.940	-5.272	0.008
1473.500	247.271	6.152	29.886	247.271	138.081	3.086	9.600	-8.752	0.006
1474.000	247.168	6.136	31.492	247.168	137.253	3.173	9.332	-11.405	0.004
1474.500	247.065	6.128	32.499	247.065	135.718	3.223	9.490	-11.594	0.002
1475.000	246.963	6.127	32.002	246.963	137.744	3.168	9.953	-7.615	-0.001
1475.500	246.860	6.132	31.342	246.860	141.952	3.112	10.245	-3.420	-0.001
1476.000	246.758	6.149	31.337	246.758	143.315	3.155	10.281	-1.233	0.000
1476.500	246.654	6.166	31.489	246.654	140.930	3.287	10.209	-0.217	0.002
1477.000	246.551	6.162	31.298	246.551	138.229	3.416	10.120	-1.241	0.005
1477.500	246.447	6.146	31.052	246.447	137.121	3.432	10.112	-0.010	0.009
1478.000	246.344	6.147	30.984	246.344	138.066	3.368	10.325	5.941	0.013
1478.500	246.241	6.157	30.933	246.241	140.687	3.322	10.857	8.173	0.015
1479.000	246.138	6.159	30.142	246.138	141.720	3.278	11.414	3.118	0.013
1479.500	246.034	6.160	28.627	246.034	137.745	3.229	11.353	-1.881	0.012
1480.000	245.931	6.159	27.849	245.931	132.202	3.183	10.689	-2.666	0.011
1480.500	245.827	6.148	28.366	245.827	130.488	3.065	10.217	-5.226	0.008
1481.000	245.724	6.138	28.674	245.724	131.612	2.917	10.151	-12.845	0.004
1481.500	245.622	6.137	27.786	245.622	131.654	2.924	10.024	-18.592	0.003
1482.000	245.519	6.147	27.334	245.519	130.565	3.084	10.051	-20.078	0.003

1482.500	245.416	6.161	28.613	245.416	131.997	3.178	10.644	-25.972	-0.000
1483.000	245.312	6.161	30.244	245.312	136.285	3.104	11.270	-36.258	-0.003
1483.500	245.209	6.141	30.986	245.209	139.347	3.027	11.449	-37.667	-0.002
1484.000	245.106	6.127	31.847	245.106	139.037	3.067	11.456	-26.542	-0.002
1484.500	245.004	6.130	32.270	245.004	138.805	3.138	11.523	-18.070	-0.002
1485.000	244.901	6.141	31.237	244.901	140.186	3.187	11.287	-21.482	-0.003
1485.500	244.798	6.147	30.125	244.798	141.148	3.344	10.715	-24.683	-0.004
1486.000	244.695	6.147	29.219	244.695	139.945	3.631	10.444	-15.347	-0.006
1486.500	244.592	6.150	27.943	244.592	137.916	3.786	10.871	-3.077	-0.007
1487.000	244.489	6.156	27.291	244.489	136.605	3.663	11.475	-2.188	-0.007
1487.500	244.386	6.159	27.703	244.386	135.427	3.492	11.620	-6.810	-0.004
1488.000	244.282	6.158	27.869	244.282	134.830	3.456	11.338	-7.056	-0.001
1488.500	244.179	6.148	27.674	244.179	136.869	3.517	11.067	-4.709	0.000
1489.000	244.076	6.136	28.790	244.076	139.588	3.637	11.053	-3.777	-0.002
1489.500	243.973	6.134	30.854	243.973	139.425	3.749	11.230	-1.568	-0.004
1490.000	243.870	6.147	31.560	243.870	138.300	3.714	11.405	-1.132	-0.005
1490.500	243.767	6.160	30.797	243.767	138.895	3.537	11.447	-5.482	-0.004
1491.000	243.664	6.163	30.154	243.664	138.696	3.347	11.352	-14.043	-0.002
1491.500	243.560	6.159	29.995	243.560	136.810	3.252	11.005	-20.313	0.002
1492.000	243.457	6.158	29.914	243.457	135.442	3.265	10.304	-22.228	0.005
1492.500	243.353	6.161	29.930	243.353	136.106	3.299	9.386	-21.486	0.009
1493.000	243.250	6.160	30.544	243.250	137.518	3.277	8.641	-19.481	0.011
1493.500	243.146	6.152	31.719	243.146	138.000	3.232	8.663	-16.796	0.010
1494.000	243.043	6.151	32.031	243.043	137.302	3.208	9.465	-15.261	0.007
1494.500	242.940	6.152	31.026	242.940	137.815	3.204	10.315	-17.921	0.007
1495.000	242.837	6.144	30.191	242.837	141.555	3.185	10.788	-25.698	0.010
1495.500	242.734	6.137	30.303	242.734	144.625	3.152	10.866	-32.423	0.013
1496.000	242.631	6.142	30.178	242.631	144.443	3.128	10.563	-32.583	0.015
1496.500	242.528	6.146	30.311	242.528	144.172	3.089	10.135	-29.570	0.017
1497.000	242.425	6.136	32.291	242.425	145.263	3.039	9.833	-25.471	0.018
1497.500	242.323	6.122	34.281	242.323	145.494	3.072	9.616	-19.762	0.018
1498.000	242.221	6.122	33.516	242.221	145.373	3.219	9.634	-16.932	0.017
1498.500	242.118	6.133	32.787	242.118	146.148	3.336	9.990	-21.298	0.015
1499.000	242.016	6.139	33.398	242.016	146.619	3.284	10.206	-28.883	0.014
1499.500	241.913	6.139	32.541	241.913	145.829	3.178	10.011	-34.197	0.016
1500.000	241.810	6.153	29.992	241.810	144.227	3.212	9.838	-34.825	0.018
1500.500	241.707	6.168	28.362	241.707	143.093	3.349	9.987	-33.876	0.016
1501.000	241.603	6.162	28.635	241.603	142.198	3.438	10.100	-35.117	0.014
1501.500	241.500	6.144	30.202	241.500	141.000	3.480	9.853	-35.080	0.014
1502.000	241.397	6.132	32.013	241.397	140.549	3.539	9.440	-31.819	0.017
1502.500	241.294	6.127	32.658	241.294	141.141	3.545	9.197	-28.191	0.020
1503.000	241.192	6.132	31.785	241.192	142.426	3.460	9.241	-28.363	0.020
1503.500	241.089	6.147	30.894	241.089	143.657	3.338	9.605	-28.613	0.018
1504.000	240.986	6.157	30.848	240.986	145.070	3.190	10.210	-26.851	0.014
1504.500	240.883	6.155	31.452	240.883	147.559	3.082	10.795	-27.288	0.010
1505.000	240.779	6.152	32.410	240.779	149.902	3.139	11.273	-30.539	0.006
1505.500	240.676	6.152	32.959	240.676	149.838	3.276	11.631	-29.457	0.004
1506.000	240.573	6.152	32.324	240.573	148.663	3.336	11.418	-25.944	0.004
1506.500	240.470	6.156	31.196	240.470	146.520	3.341	10.242	-26.364	0.008
1507.000	240.366	6.166	30.571	240.366	141.111	3.347	8.579	-27.180	0.015
1507.500	240.263	6.168	30.177	240.263	133.561	3.312	7.583	-23.701	0.020
1508.000	240.159	6.165	30.138	240.159	129.815	3.287	7.735	-22.804	0.024
1508.500	240.055	6.164	30.817	240.055	132.218	3.339	8.379	-23.981	0.028
1509.000	239.952	6.165	31.614	239.952	138.180	3.366	8.699	-18.027	0.035

1509.500	239.848	6.169	31.927	239.848	143.662	3.275	8.457	-6.113	0.041
1510.000	239.744	6.169	32.127	239.744	145.713	3.224	8.062	6.191	0.043
1510.500	239.640	6.167	32.238	239.640	144.788	3.359	8.186	15.577	0.037
1511.000	239.537	6.175	31.943	239.537	144.174	3.570	8.933	16.405	0.025
1511.500	239.433	6.192	32.263	239.433	145.540	3.720	9.701	8.489	0.014
1512.000	239.328	6.194	32.686	239.328	146.954	3.762	10.194	-0.997	0.007
1512.500	239.223	6.177	31.382	239.223	146.140	3.644	10.463	-8.364	0.003
1513.000	239.120	6.156	29.321	239.120	141.903	3.454	10.236	-11.494	0.004
1513.500	239.016	6.153	27.810	239.016	133.894	3.399	9.162	-8.813	0.008
1514.000	238.913	6.170	26.387	238.913	122.929	3.457	7.625	-5.935	0.013
1514.500	238.809	6.186	24.559	238.809	113.322	3.415	6.719	-10.727	0.015
1515.000	238.705	6.184	22.799	238.705	111.105	3.261	7.077	-20.557	0.014
1515.500	238.600	6.167	21.887	238.600	112.871	3.115	7.888	-24.071	0.013
1516.000	238.497	6.151	21.147	238.497	109.502	3.062	7.883	-16.710	0.017
1516.500	238.394	6.154	18.846	238.394	99.371	3.146	6.950	-6.023	0.022
1517.000	238.290	6.177	16.245	238.290	88.789	3.262	6.062	1.589	0.026
1517.500	238.186	6.192	15.193	238.186	82.244	3.263	5.895	7.351	0.025
1518.000	238.081	6.191	15.427	238.081	81.385	3.158	6.163	12.032	0.024
1518.500	237.977	6.194	16.040	237.977	85.873	3.016	6.440	12.655	0.025
1519.000	237.872	6.200	17.186	237.872	91.784	2.874	6.809	13.548	0.026
1519.500	237.767	6.189	19.426	237.767	96.411	2.819	7.464	22.533	0.025
1520.000	237.663	6.180	22.008	237.663	102.287	2.882	8.298	36.441	0.022
1520.500	237.559	6.196	23.928	237.559	111.755	2.959	9.030	42.702	0.017
1521.000	237.454	6.211	25.436	237.454	122.376	2.929	9.390	36.957	0.014
1521.500	237.349	6.198	26.826	237.349	129.221	2.816	9.210	28.007	0.013
1522.000	237.244	6.174	27.813	237.244	130.534	2.729	8.657	23.513	0.014
1522.500	237.141	6.167	28.433	237.141	128.156	2.736	8.120	24.091	0.014
1523.000	237.037	6.182	28.590	237.037	124.454	2.857	7.798	22.899	0.014
1523.500	236.932	6.212	28.330	236.932	122.065	3.067	7.827	15.546	0.013
1524.000	236.827	6.234	28.576	236.827	124.144	3.344	8.248	4.829	0.012
1524.500	236.721	6.219	29.222	236.721	128.302	3.644	8.864	-1.964	0.009
1525.000	236.616	6.187	29.148	236.616	129.535	3.782	9.346	-3.664	0.006
1525.500	236.511	6.189	28.456	236.511	129.945	3.619	9.289	-2.320	0.004
1526.000	236.407	6.211	28.376	236.407	131.838	3.371	8.520	3.667	0.006
1526.500	236.301	6.213	28.855	236.301	132.460	3.275	7.628	14.381	0.010
1527.000	236.196	6.200	28.851	236.196	130.586	3.250	7.443	20.617	0.013
1527.500	236.091	6.190	28.476	236.091	128.474	3.169	7.809	17.695	0.013
1528.000	235.987	6.185	28.339	235.987	127.298	3.084	8.089	12.553	0.013
1528.500	235.883	6.192	27.924	235.883	126.498	3.082	8.163	6.206	0.012
1529.000	235.778	6.210	26.688	235.778	125.503	3.134	8.227	-5.318	0.011
1529.500	235.673	6.225	25.639	235.673	125.157	3.199	8.302	-14.143	0.010
1530.000	235.567	6.226	25.644	235.567	125.068	3.288	8.585	-11.405	0.007
1530.500	235.461	6.209	25.926	235.461	122.348	3.373	9.245	-3.507	0.002
1531.000	235.356	6.192	25.418	235.356	119.227	3.382	9.727	-1.399	-0.001
1531.500	235.252	6.190	25.155	235.252	120.203	3.342	9.553	-4.986	-0.000
1532.000	235.147	6.189	26.488	235.147	123.526	3.364	8.959	-8.517	0.004
1532.500	235.043	6.185	28.733	235.043	124.541	3.423	8.690	-12.485	0.006
1533.000	234.939	6.186	30.284	234.939	124.211	3.403	8.896	-20.002	0.005
1533.500	234.834	6.185	30.831	234.834	124.956	3.282	9.122	-26.524	0.004
1534.000	234.730	6.180	30.719	234.730	125.834	3.175	8.979	-25.960	0.006
1534.500	234.626	6.188	30.139	234.626	126.299	3.149	8.644	-23.702	0.007
1535.000	234.521	6.207	29.666	234.521	127.034	3.099	8.404	-26.470	0.008
1535.500	234.416	6.223	28.875	234.416	127.473	2.942	8.103	-30.511	0.009
1536.000	234.310	6.221	27.748	234.310	126.890	2.798	7.683	-30.149	0.011

1536.500	234.205	6.201	26.835	234.205	124.573	2.774	7.364	-23.707	0.014
1537.000	234.100	6.179	26.104	234.100	119.569	2.874	6.832	-15.703	0.017
1537.500	233.996	6.177	24.610	233.996	113.499	3.132	5.615	-15.585	0.023
1538.000	233.892	6.197	22.832	233.892	109.291	3.461	4.705	-24.073	0.026
1538.500	233.787	6.208	22.080	233.787	107.289	3.557	5.730	-29.159	0.017
1539.000	233.682	6.194	22.407	233.682	106.844	3.371	8.139	-27.733	0.002
1539.500	233.578	6.175	22.480	233.578	108.691	3.181	9.877	-25.981	-0.005
1540.000	233.474	6.169	21.804	233.474	111.519	3.152	10.385	-25.831	-0.004
1540.500	233.370	6.176	21.477	233.370	112.412	3.203	10.037	-17.988	0.003
1541.000	233.266	6.187	21.875	233.266	109.805	3.292	9.449	-2.773	0.011
1541.500	233.161	6.198	22.652	233.161	105.884	3.419	9.458	6.025	0.013
1542.000	233.057	6.211	23.219	233.057	102.766	3.380	10.155	7.238	0.008
1542.500	232.951	6.228	22.697	232.951	101.171	3.104	10.685	9.698	0.002
1543.000	232.845	6.237	21.218	232.845	100.750	2.873	10.615	12.800	0.000
1543.500	232.739	6.233	20.102	232.739	100.630	2.839	10.417	12.852	0.001
1544.000	232.633	6.221	19.625	232.633	99.617	2.910	10.347	14.602	0.001
1544.500	232.528	6.200	19.619	232.528	97.134	3.031	10.079	16.525	0.002
1545.000	232.423	6.179	20.660	232.423	94.868	3.154	9.490	12.850	0.005
1545.500	232.319	6.169	22.387	232.319	94.754	3.161	8.945	4.724	0.010
1546.000	232.216	6.167	23.571	232.216	98.561	3.034	8.918	1.748	0.012
1546.500	232.112	6.173	24.070	232.112	105.597	2.921	9.269	4.820	0.013
1547.000	232.008	6.191	24.450	232.008	112.991	2.928	9.494	6.818	0.012
1547.500	231.903	6.210	25.033	231.903	118.076	2.993	9.528	6.250	0.010
1548.000	231.798	6.217	26.255	231.798	120.156	3.016	9.554	8.153	0.006
1548.500	231.693	6.211	27.320	231.693	119.907	3.040	9.497	12.149	0.002
1549.000	231.587	6.207	27.404	231.587	116.960	3.160	9.187	12.484	0.000
1549.500	231.482	6.204	26.757	231.482	112.526	3.292	8.642	9.443	0.001
1550.000	231.377	6.196	25.447	231.377	109.890	3.242	8.315	4.586	0.004
1550.500	231.273	6.190	24.023	231.273	110.456	3.060	8.557	-1.431	0.006
1551.000	231.168	6.187	23.531	231.168	110.981	2.954	8.984	-8.474	0.007
1551.500	231.064	6.189	23.708	231.064	109.938	2.961	9.132	-13.820	0.010
1552.000	230.959	6.192	23.703	230.959	109.802	3.023	9.249	-13.079	0.012
1552.500	230.855	6.198	23.548	230.855	110.074	3.103	9.719	-8.833	0.009
1553.000	230.750	6.208	23.878	230.750	107.760	3.172	10.164	-9.786	0.005
1553.500	230.645	6.222	24.333	230.645	104.382	3.220	10.050	-12.949	0.004
1554.000	230.539	6.231	24.136	230.539	102.456	3.239	9.679	-8.574	0.007
1554.500	230.433	6.230	23.219	230.433	101.620	3.181	9.769	-2.765	0.008
1555.000	230.327	6.220	22.108	230.327	101.541	3.029	10.382	-4.851	0.008
1555.500	230.222	6.207	21.081	230.222	103.275	2.828	10.871	-8.620	0.007
1556.000	230.117	6.204	20.683	230.117	104.496	2.695	10.764	-5.608	0.008
1556.500	230.012	6.207	20.662	230.012	102.088	2.756	10.098	0.651	0.012
1557.000	229.907	6.209	20.478	229.907	97.822	2.960	9.274	5.201	0.017
1557.500	229.802	6.210	20.292	229.802	95.453	3.077	8.818	7.912	0.021
1558.000	229.697	6.203	20.629	229.697	96.548	2.997	8.906	11.636	0.024
1558.500	229.592	6.182	21.635	229.592	101.459	2.874	9.129	13.826	0.024
1559.000	229.488	6.173	23.199	229.488	109.086	2.888	9.373	11.652	0.020
1559.500	229.384	6.189	24.782	229.384	114.970	2.980	9.994	10.114	0.013
1560.000	229.279	6.205	25.147	229.279	114.645	2.984	10.631	10.177	0.006
1560.500	229.174	6.202	23.782	229.174	109.425	2.934	10.460	4.092	0.006
1561.000	229.069	6.189	22.077	229.069	104.550	2.933	9.537	-5.583	0.010
1561.500	228.965	6.182	21.429	228.965	103.412	2.940	8.738	-4.064	0.015
1562.000	228.861	6.191	21.757	228.861	103.682	2.895	8.534	6.276	0.016
1562.500	228.756	6.199	21.914	228.756	103.237	2.810	8.486	12.006	0.017
1563.000	228.651	6.192	21.501	228.651	102.779	2.739	8.013	11.670	0.021

1563.500	228.547	6.186	20.824	228.547	102.029	2.760	7.095	14.346	0.026
1564.000	228.442	6.199	19.504	228.442	97.173	2.854	6.245	20.676	0.031
1564.500	228.337	6.214	18.288	228.337	88.417	2.947	5.950	23.273	0.034
1565.000	228.232	6.220	18.220	228.232	82.676	3.092	6.279	21.004	0.032
1565.500	228.127	6.237	18.716	228.127	83.575	3.281	6.810	19.409	0.026
1566.000	228.020	6.282	18.948	228.020	87.062	3.316	7.001	18.386	0.020
1566.500	227.912	6.319	19.792	227.912	90.855	3.171	6.822	14.548	0.016
1567.000	227.803	6.319	21.986	227.803	98.157	3.061	6.895	14.904	0.013
1567.500	227.694	6.307	24.363	227.694	109.247	3.101	7.501	22.684	0.008
1568.000	227.586	6.312	25.936	227.586	119.053	3.280	8.327	28.608	0.005
1568.500	227.477	6.325	27.732	227.477	124.121	3.447	9.252	28.207	0.002
1569.000	227.368	6.337	29.932	227.368	126.249	3.382	10.011	26.326	-0.001
1569.500	227.258	6.351	31.213	227.258	127.142	3.155	10.217	24.010	-0.002
1570.000	227.148	6.345	30.873	227.148	126.626	3.069	10.023	17.775	-0.002
1570.500	227.039	6.320	29.485	227.039	125.962	3.226	9.849	9.289	-0.003
1571.000	226.930	6.301	28.246	226.930	126.834	3.492	9.715	-0.575	-0.003
1571.500	226.822	6.297	29.089	226.822	129.001	3.665	9.615	-12.326	-0.002
1572.000	226.714	6.297	31.344	226.714	130.793	3.631	9.648	-22.813	-0.001
1572.500	226.605	6.297	32.693	226.605	130.095	3.487	9.658	-27.518	-0.000
1573.000	226.497	6.299	32.268	226.497	127.480	3.377	9.539	-26.626	0.000
1573.500	226.389	6.305	30.582	226.389	126.135	3.331	9.468	-26.793	-0.000
1574.000	226.281	6.315	28.726	226.281	126.908	3.356	9.519	-29.946	-0.002
1574.500	226.172	6.322	28.553	226.172	126.693	3.399	9.564	-30.297	-0.002
1575.000	226.063	6.322	29.394	226.063	124.571	3.338	9.445	-27.703	-0.001
1575.500	225.954	6.319	29.237	225.954	122.723	3.268	9.251	-28.038	0.001
1576.000	225.845	6.320	28.439	225.845	122.604	3.343	9.340	-32.044	0.001
1576.500	225.736	6.315	28.513	225.736	122.753	3.449	9.747	-34.031	-0.000
1577.000	225.627	6.305	29.143	225.627	120.966	3.496	9.913	-33.153	-0.001
1577.500	225.519	6.305	29.576	225.519	119.388	3.568	9.661	-33.612	-0.000
1578.000	225.410	6.316	29.112	225.410	119.665	3.593	9.307	-37.802	0.000
1578.500	225.302	6.320	28.132	225.302	120.444	3.462	8.999	-38.098	0.001
1579.000	225.193	6.312	28.091	225.193	121.457	3.351	8.796	-31.794	0.001
1579.500	225.084	6.312	28.636	225.084	123.288	3.382	8.942	-25.986	-0.000
1580.000	224.975	6.325	28.187	224.975	124.099	3.395	9.318	-25.595	-0.002
1580.500	224.866	6.339	27.347	224.866	123.479	3.289	9.499	-26.642	-0.002
1581.000	224.756	6.341	27.409	224.756	123.660	3.209	9.352	-27.811	-0.000
1581.500	224.647	6.328	27.782	224.647	124.612	3.238	9.060	-28.707	0.002
1582.000	224.538	6.315	28.141	224.538	124.565	3.289	8.839	-28.055	0.004
1582.500	224.429	6.315	28.256	224.429	123.720	3.287	8.770	-23.439	0.003
1583.000	224.320	6.317	27.574	224.320	123.871	3.252	8.852	-17.678	0.000
1583.500	224.211	6.311	26.817	224.211	124.582	3.272	8.891	-15.682	-0.001
1584.000	224.103	6.299	27.406	224.103	124.030	3.411	8.824	-18.338	-0.001
1584.500	223.995	6.293	28.678	223.995	123.932	3.586	8.813	-20.168	0.001
1585.000	223.887	6.299	29.009	223.887	125.397	3.621	9.066	-19.167	0.002
1585.500	223.778	6.312	28.950	223.778	126.255	3.510	9.390	-17.832	0.001
1586.000	223.670	6.316	29.760	223.670	123.804	3.413	9.328	-16.323	0.002
1586.500	223.561	6.310	30.803	223.561	120.730	3.429	8.964	-14.920	0.001
1587.000	223.452	6.311	31.029	223.452	121.866	3.521	8.832	-18.230	-0.001
1587.500	223.344	6.324	30.609	223.344	125.024	3.617	9.023	-26.081	-0.004
1588.000	223.235	6.334	29.270	223.235	124.906	3.620	9.285	-30.398	-0.005
1588.500	223.125	6.329	27.760	223.125	122.479	3.513	9.413	-29.423	-0.004
1589.000	223.016	6.311	26.966	223.016	120.895	3.438	9.263	-29.887	-0.001
1589.500	222.908	6.294	26.846	222.908	119.126	3.487	8.958	-33.255	0.001
1590.000	222.800	6.293	26.581	222.800	116.790	3.607	8.955	-35.017	-0.000

1590.500	222.692	6.312	25.609	222.692	115.372	3.745	9.266	-37.769	-0.003
1591.000	222.583	6.332	24.789	222.583	116.064	3.874	9.710	-45.792	-0.007
1591.500	222.473	6.336	25.706	222.473	116.413	3.929	10.165	-55.477	-0.009
1592.000	222.364	6.330	28.007	222.364	114.909	3.921	10.422	-59.209	-0.009
1592.500	222.255	6.332	30.144	222.255	114.202	3.945	10.386	-56.119	-0.008
1593.000	222.145	6.340	31.461	222.145	116.480	4.012	10.264	-51.354	-0.007
1593.500	222.036	6.335	31.607	222.036	118.393	3.982	10.214	-49.599	-0.006
1594.000	221.926	6.317	30.215	221.926	118.272	3.811	10.067	-49.903	-0.006
1594.500	221.818	6.298	28.891	221.818	118.767	3.657	9.758	-48.782	-0.006
1595.000	221.710	6.295	28.311	221.710	121.148	3.595	9.487	-46.143	-0.005
1595.500	221.601	6.304	28.325	221.601	123.633	3.568	9.274	-42.758	-0.004
1596.000	221.493	6.315	28.927	221.493	124.709	3.525	8.948	-40.271	-0.001
1596.500	221.384	6.321	29.583	221.384	125.087	3.427	8.628	-38.139	0.002
1597.000	221.275	6.327	30.267	221.275	125.820	3.325	8.743	-34.643	0.002
1597.500	221.166	6.336	31.031	221.166	126.088	3.378	9.319	-29.520	-0.001
1598.000	221.056	6.339	30.751	221.056	124.705	3.512	9.912	-26.547	-0.004
1598.500	220.947	6.327	29.432	220.947	123.580	3.430	9.896	-29.783	-0.002
1599.000	220.838	6.309	28.610	220.838	124.402	3.159	9.089	-38.309	0.003
1599.500	220.729	6.302	28.460	220.729	126.426	3.066	8.348	-43.637	0.009
1600.000	220.621	6.303	28.758	220.621	128.294	3.264	8.552	-43.515	0.009
1600.500	220.513	6.300	28.756	220.513	129.250	3.523	9.244	-45.660	0.006
1601.000	220.405	6.295	27.001	220.405	125.217	3.624	9.785	-50.788	0.004
1601.500	220.296	6.303	23.837	220.296	113.636	3.508	10.407	-48.737	0.005
1602.000	220.188	6.322	21.317	220.188	97.957	3.207	11.795	-38.799	0.010
1602.500	220.079	6.358	20.232	220.079	88.219	2.879	15.029	-33.721	0.022
1603.000	219.968	6.492	20.643	219.968	91.722	2.584	19.865	-34.605	0.040
1603.500	219.851	6.691	23.154	219.851	102.786	2.298	23.182	-33.311	0.060
1604.000	219.728	6.714	26.481	219.728	108.329	2.071	22.274	-28.973	0.078
1604.500	219.607	6.500	26.581	219.607	106.999	2.041	17.119	-24.404	0.091
1605.000	219.493	6.289	24.563	219.493	106.044	2.274	10.821	-14.673	0.093
1605.500	219.386	6.212	23.289	219.386	106.100	2.633	7.866	6.772	0.079
1606.000	219.282	6.163	22.647	219.282	103.321	2.949	8.692	32.384	0.058
1606.500	219.179	6.093	22.250	219.179	98.313	3.048	10.494	41.988	0.044
1607.000	219.078	6.028	22.116	219.078	92.598	2.848	11.764	24.183	0.042
1607.500	218.979	5.991	20.764	218.979	83.327	2.537	12.695	-4.001	0.048
1608.000	218.882	5.972	17.693	218.882	70.074	2.327	13.381	-16.068	0.057
1608.500	218.784	5.967	14.931	218.784	57.007	2.279	12.847	-12.061	0.067
1609.000	218.687	5.972	13.306	218.687	46.729	2.405	10.725	-14.750	0.077
1609.500	218.590	5.971	12.574	218.590	39.912	2.699	8.584	-25.781	0.079
1610.000	218.493	5.962	12.464	218.493	40.532	2.964	8.547	-32.451	0.069
1610.500	218.396	5.974	13.156	218.396	50.204	2.986	10.327	-30.129	0.055
1611.000	218.298	6.020	15.022	218.298	62.063	2.872	11.855	-29.925	0.049
1611.500	218.199	6.081	17.653	218.199	71.935	2.801	11.974	-35.342	0.052
1612.000	218.098	6.143	19.842	218.098	83.462	2.722	11.246	-39.697	0.055
1612.500	217.994	6.199	21.858	217.994	96.275	2.546	10.709	-42.571	0.055
1613.000	217.889	6.239	24.775	217.889	106.824	2.443	10.234	-49.187	0.058
1613.500	217.783	6.264	27.560	217.783	117.352	2.575	9.183	-46.935	0.072
1614.000	217.675	6.278	28.575	217.675	126.337	2.846	7.874	-23.414	0.090
1614.500	217.568	6.277	28.085	217.568	123.593	3.024	7.229	1.996	0.101
1615.000	217.460	6.269	26.390	217.460	106.602	2.967	8.266	14.110	0.094
1615.500	217.353	6.256	24.353	217.353	85.998	2.751	11.455	30.591	0.068
1616.000	217.247	6.244	22.635	217.247	75.242	2.530	14.958	52.634	0.040
1616.500	217.140	6.251	22.143	217.140	80.878	2.398	16.042	50.479	0.029
1617.000	217.034	6.278	23.632	217.034	98.984	2.444	14.012	32.814	0.042

1617.500	216.926	6.308	27.108	216.926	119.037	2.704	10.785	23.906	0.068
1618.000	216.817	6.326	30.829	216.817	133.706	3.059	8.836	16.754	0.087
1618.500	216.708	6.345	31.899	216.708	139.891	3.408	8.654	0.212	0.090
1619.000	216.598	6.338	29.932	216.598	135.932	3.580	9.498	-5.715	0.079
1619.500	216.489	6.255	26.353	216.489	123.721	3.301	11.144	6.979	0.061
1620.000	216.383	6.129	23.285	216.383	111.483	2.760	13.263	14.739	0.045
1620.500	216.282	6.048	21.439	216.282	104.026	2.347	15.170	9.111	0.037
1621.000	216.182	6.016	20.365	216.182	96.479	2.160	16.661	2.539	0.036
1621.500	216.084	5.983	19.250	216.084	83.523	2.115	17.886	-0.680	0.036
1622.000	215.987	5.958	18.394	215.987	68.756	2.149	18.891	-7.667	0.034
1622.500	215.890	5.957	17.983	215.890	58.113	2.198	19.525	-19.535	0.030
1623.000	215.793	5.959	17.585	215.793	52.332	2.191	19.601	-32.371	0.027
1623.500	215.696	5.954	17.622	215.696	50.362	2.164	19.447	-41.459	0.027
1624.000	215.600	5.957	18.948	215.600	54.265	2.218	19.613	-46.347	0.028
1624.500	215.503	5.979	21.006	215.503	66.912	2.372	19.531	-50.606	0.034
1625.000	215.405	6.003	22.168	215.405	85.066	2.597	18.097	-52.897	0.051
1625.500	215.307	6.022	22.295	215.307	97.448	2.792	15.930	-51.926	0.074
1626.000	215.207	6.052	22.758	215.207	95.180	2.754	15.030	-50.236	0.088
1626.500	215.107	6.091	23.951	215.107	86.497	2.588	15.671	-47.352	0.094
1627.000	215.006	6.124	24.890	215.006	89.524	2.580	16.151	-39.666	0.104
1627.500	214.903	6.155	25.365	214.903	104.798	2.736	15.297	-34.134	0.123
1628.000	214.800	6.177	25.459	214.800	115.195	2.790	13.312	-34.934	0.136
1628.500	214.696	6.170	23.794	214.696	109.742	2.619	11.215	-24.989	0.130
1629.000	214.592	6.134	20.898	214.592	95.350	2.457	10.428	-1.533	0.103
1629.500	214.490	6.063	19.031	214.490	81.782	2.434	11.660	6.918	0.071
1630.000	214.390	5.981	18.564	214.390	69.619	2.432	13.964	-6.024	0.049
1630.500	214.293	5.931	18.182	214.293	56.461	2.399	15.777	-12.312	0.041
1631.000	214.198	5.923	17.406	214.198	48.771	2.380	16.510	-5.058	0.042
1631.500	214.102	5.945	17.251	214.102	56.977	2.380	16.410	-4.181	0.049
1632.000	214.005	6.014	18.841	214.005	80.853	2.426	15.634	-20.693	0.066
1632.500	213.905	6.134	22.921	213.905	107.324	2.576	14.476	-36.584	0.095
1633.000	213.802	6.292	28.496	213.802	125.218	2.751	13.870	-41.820	0.126
1633.500	213.692	6.432	31.338	213.692	134.715	2.779	13.868	-41.514	0.144
1634.000	213.579	6.487	31.468	213.579	138.840	2.680	13.310	-39.429	0.146
1634.500	213.464	6.458	31.286	213.464	138.151	2.623	11.996	-32.002	0.136
1635.000	213.351	6.425	30.504	213.351	136.166	2.697	10.923	-19.195	0.120
1635.500	213.238	6.422	30.255	213.238	136.215	2.885	10.435	-5.423	0.110
1636.000	213.126	6.430	32.187	213.126	137.328	3.058	10.223	6.354	0.111
1636.500	213.013	6.474	35.670	213.013	139.056	3.040	10.539	11.836	0.117
1637.000	212.897	6.628	38.488	212.897	140.632	2.944	11.691	5.444	0.131
1637.500	212.775	6.994	38.868	212.775	139.616	2.938	14.458	-5.120	0.154
1638.000	212.636	7.665	38.004	212.636	136.357	2.885	19.625	-4.787	0.174
1638.500	212.467	8.478	37.677	212.467	132.455	2.723	25.261	3.794	0.185
1639.000	212.263	8.999	37.226	212.263	127.640	2.570	28.600	3.231	0.192
1639.500	212.041	8.997	36.565	212.041	123.738	2.520	28.773	-8.975	0.196
1640.000	211.824	8.599	37.693	211.824	124.177	2.609	26.927	-15.706	0.195
1640.500	211.629	7.959	40.664	211.629	127.438	2.842	24.585	-3.721	0.188
1641.000	211.463	7.373	43.844	211.463	132.094	3.000	23.717	19.718	0.181
1641.500	211.318	7.219	44.087	211.318	137.373	2.827	27.182	28.984	0.168
1642.000	211.174	7.491	38.509	211.174	139.663	2.533	32.596	9.530	0.152
1642.500	211.018	7.660	29.704	211.018	134.131	2.318	34.444	-20.206	0.139
1643.000	210.860	7.310	21.306	210.860	117.806	2.276	30.755	-36.339	0.118
1643.500	210.721	6.650	15.055	210.721	93.902	2.445	22.554	-39.526	0.086
1644.000	210.605	6.197	11.417	210.605	72.340	2.701	13.376	-27.699	0.055

1644.500	210.502	6.088	10.117	210.502	60.084	2.828	7.705	4.411	0.031
1645.000	210.400	6.107	10.840	210.400	57.542	2.766	6.436	32.351	0.019
1645.500	210.298	6.158	13.163	210.298	64.330	2.648	7.309	26.003	0.019
1646.000	210.194	6.237	16.702	210.194	79.240	2.657	8.809	2.954	0.028
1646.500	210.088	6.309	21.045	210.088	97.948	2.792	10.638	-5.855	0.045
1647.000	209.979	6.351	24.284	209.979	113.195	2.863	12.365	-1.800	0.070
1647.500	209.868	6.372	25.312	209.868	117.779	2.742	13.226	3.939	0.093
1648.000	209.758	6.348	25.137	209.758	110.287	2.471	13.088	14.973	0.102
1648.500	209.649	6.258	23.493	209.649	95.015	2.233	12.645	30.863	0.091
1649.000	209.543	6.165	21.352	209.543	80.397	2.134	12.732	40.281	0.064
1649.500	209.439	6.140	19.942	209.439	73.374	2.111	13.324	38.830	0.038
1650.000	209.336	6.159	19.611	209.336	74.346	2.128	13.730	31.880	0.022
1650.500	209.233	6.168	20.130	209.233	81.560	2.235	13.755	21.903	0.013
1651.000	209.129	6.156	21.052	209.129	95.082	2.392	13.578	5.068	0.008
1651.500	209.026	6.144	21.891	209.026	110.263	2.475	13.069	-11.105	0.006
1652.000	208.923	6.135	22.368	208.923	119.746	2.487	12.140	-15.998	0.009
1652.500	208.821	6.109	21.823	208.821	118.523	2.543	10.988	-13.417	0.012
1653.000	208.719	6.050	19.489	208.719	104.995	2.706	9.688	-14.184	0.013
1653.500	208.620	5.973	16.523	208.620	84.465	2.859	8.568	-19.200	0.013
1654.000	208.523	5.913	14.835	208.523	68.060	2.788	8.629	-26.278	0.011
1654.500	208.428	5.867	14.815	208.428	59.551	2.535	10.315	-32.204	0.012
1655.000	208.335	5.800	15.567	208.335	54.054	2.335	12.333	-33.447	0.019
1655.500	208.244	5.721	15.739	208.244	49.114	2.287	13.248	-34.825	0.031
1656.000	208.155	5.673	15.288	208.155	46.843	2.380	12.897	-38.833	0.041
1656.500	208.067	5.652	15.067	208.067	46.921	2.593	12.085	-42.301	0.046
1657.000	207.980	5.647	15.471	207.980	47.198	2.785	12.235	-41.317	0.043
1657.500	207.893	5.663	16.389	207.893	46.382	2.770	14.025	-40.653	0.032
1658.000	207.806	5.675	17.256	207.806	43.854	2.646	15.907	-46.281	0.025
1658.500	207.718	5.676	17.608	207.718	41.176	2.516	16.488	-53.308	0.027
1659.000	207.630	5.679	17.809	207.630	40.084	2.329	16.915	-52.364	0.033
1659.500	207.542	5.679	18.453	207.542	40.960	2.122	18.541	-45.607	0.036
1660.000	207.454	5.667	19.333	207.454	42.772	1.967	20.311	-39.569	0.041
1660.500	207.367	5.660	19.707	207.367	43.713	1.862	21.007	-40.227	0.048
1661.000	207.279	5.664	19.450	207.279	43.735	1.841	20.947	-49.734	0.053
1661.500	207.192	5.672	18.966	207.192	46.087	1.920	20.723	-57.934	0.054
1662.000	207.104	5.660	18.781	207.104	50.541	1.995	20.270	-58.299	0.057
1662.500	207.017	5.619	18.889	207.017	51.512	1.990	19.331	-60.006	0.066
1663.000	206.931	5.570	18.951	206.931	47.852	2.001	17.966	-62.304	0.077
1663.500	206.847	5.547	19.186	206.847	48.029	2.145	16.498	-56.697	0.086
1664.000	206.763	5.564	19.887	206.763	63.359	2.418	15.099	-46.835	0.090
1664.500	206.678	5.652	21.268	206.678	93.769	2.685	13.457	-43.919	0.093
1665.000	206.590	5.859	23.498	206.590	123.258	2.776	11.368	-44.641	0.093
1665.500	206.494	6.126	26.113	206.494	137.415	2.720	9.472	-39.955	0.085
1666.000	206.390	6.311	27.913	206.390	137.695	2.701	8.660	-28.208	0.066
1666.500	206.280	6.371	28.758	206.280	133.870	2.802	8.844	-7.825	0.044
1667.000	206.169	6.376	29.258	206.169	130.378	3.048	9.321	29.428	0.028
1667.500	206.059	6.374	29.609	206.059	127.883	3.380	9.792	82.622	0.018
1668.000	205.948	6.378	29.777	205.948	127.870	3.580	10.289	123.551	0.011
1668.500	205.837	6.387	29.382	205.837	129.608	3.551	10.702	115.823	0.005
1669.000	205.725	6.406	29.307	205.725	130.485	3.435	10.845	69.076	0.001
1669.500	205.613	6.444	29.875	205.613	131.056	3.342	10.670	27.562	-0.000
1670.000	205.500	6.489	30.155	205.500	132.795	3.296	10.457	13.322	-0.000
1670.500	205.384	6.540	29.865	205.384	132.404	3.294	10.610	5.815	-0.001
1671.000	205.267	6.602	29.829	205.267	129.009	3.331	11.104	-1.769	-0.003

1671.500	205.148	6.658	29.644	205.148	125.570	3.435	11.548	-2.650	-0.003
1672.000	205.026	6.700	28.622	205.026	123.973	3.578	11.738	0.191	-0.002
1672.500	204.904	6.727	27.266	204.904	122.550	3.643	11.644	-5.006	-0.000
1673.000	204.780	6.735	26.480	204.780	120.402	3.605	11.151	-11.761	0.004
1673.500	204.657	6.728	26.885	204.657	118.488	3.506	10.596	-14.164	0.007
1674.000	204.533	6.716	28.312	204.533	117.764	3.392	10.468	-17.245	0.005
1674.500	204.410	6.705	29.418	204.410	118.371	3.333	10.732	-20.462	0.001
1675.000	204.288	6.700	29.278	204.288	120.962	3.338	10.986	-21.058	-0.000
1675.500	204.165	6.705	28.520	204.165	123.586	3.313	11.031	-25.422	0.002
1676.000	204.043	6.728	28.001	204.043	123.826	3.208	10.816	-32.666	0.008
1676.500	203.919	6.755	27.645	203.919	123.417	3.066	10.371	-35.073	0.013
1677.000	203.794	6.763	27.479	203.794	124.137	2.948	9.798	-31.063	0.014
1677.500	203.670	6.757	27.753	203.670	123.724	2.910	9.339	-31.149	0.012
1678.000	203.545	6.756	27.939	203.545	122.133	2.976	9.297	-37.286	0.008
1678.500	203.421	6.749	27.533	203.421	121.444	3.128	9.603	-39.531	0.006
1679.000	203.297	6.710	27.410	203.297	120.797	3.306	9.884	-37.748	0.008
1679.500	203.175	6.650	27.966	203.175	118.048	3.403	9.920	-40.275	0.013
1680.000	203.054	6.603	28.007	203.054	114.426	3.372	9.663	-45.379	0.018
1680.500	202.936	6.571	27.181	202.936	113.581	3.280	9.385	-45.894	0.022
1681.000	202.818	6.528	26.396	202.818	116.444	3.178	9.471	-44.490	0.020
1681.500	202.703	6.463	26.104	202.703	118.797	3.063	9.712	-47.431	0.016
1682.000	202.589	6.406	26.198	202.589	118.464	2.969	9.563	-53.318	0.014
1682.500	202.478	6.378	26.348	202.478	118.117	2.984	9.112	-56.238	0.016
1683.000	202.367	6.357	26.086	202.367	118.080	3.141	8.959	-52.781	0.018
1683.500	202.257	6.320	25.505	202.257	116.913	3.338	9.371	-44.201	0.016
1684.000	202.148	6.293	25.269	202.148	117.325	3.411	9.950	-35.423	0.010
1684.500	202.040	6.293	25.528	202.040	120.638	3.353	10.247	-32.026	0.005
1685.000	201.932	6.302	25.706	201.932	123.141	3.331	10.286	-34.480	0.002
1685.500	201.824	6.303	25.306	201.824	122.235	3.432	10.404	-37.081	0.001
1686.000	201.716	6.305	24.465	201.716	120.376	3.529	10.719	-37.911	0.001
1686.500	201.607	6.306	24.230	201.607	119.377	3.486	10.906	-37.722	0.002
1687.000	201.499	6.307	24.807	201.499	118.833	3.353	10.611	-31.423	0.004
1687.500	201.390	6.317	25.705	201.390	118.884	3.249	10.052	-21.500	0.006
1688.000	201.281	6.331	26.443	201.281	119.915	3.220	9.789	-16.004	0.007
1688.500	201.172	6.332	26.840	201.172	121.108	3.256	9.905	-12.917	0.006
1689.000	201.063	6.316	26.855	201.063	121.631	3.299	10.111	-9.589	0.005
1689.500	200.954	6.302	26.589	200.954	121.643	3.309	10.249	-7.656	0.004
1690.000	200.846	6.299	25.501	200.846	119.820	3.322	10.302	-6.958	0.003
1690.500	200.738	6.295	23.887	200.738	115.398	3.327	10.243	-7.998	0.002
1691.000	200.630	6.295	22.856	200.630	110.417	3.233	9.976	-12.132	0.002
1691.500	200.522	6.299	22.388	200.522	106.851	3.073	9.376	-14.556	0.006
1692.000	200.413	6.304	21.738	200.413	105.805	3.005	8.628	-12.732	0.013
1692.500	200.305	6.308	21.474	200.305	107.352	3.034	8.414	-8.984	0.017
1693.000	200.196	6.307	22.066	200.196	109.189	3.053	9.093	-6.679	0.015
1693.500	200.088	6.299	22.309	200.088	108.316	3.076	10.005	-6.731	0.010
1694.000	199.980	6.299	21.363	199.980	106.605	3.075	10.240	-4.959	0.009
1694.500	199.872	6.307	20.855	199.872	107.067	2.953	9.652	1.219	0.012
1695.000	199.763	6.305	22.048	199.763	109.039	2.812	8.926	5.843	0.016
1695.500	199.655	6.302	24.213	199.655	110.350	2.806	8.570	6.729	0.016
1696.000	199.546	6.313	25.458	199.546	110.957	2.915	8.474	8.290	0.014
1696.500	199.437	6.326	24.674	199.437	111.355	3.064	8.537	13.414	0.012
1697.000	199.328	6.315	23.185	199.328	111.337	3.143	8.679	21.091	0.012
1697.500	199.220	6.291	22.689	199.220	110.165	3.083	8.434	24.352	0.014
1698.000	199.112	6.283	23.360	199.112	109.070	2.997	7.714	17.751	0.019

1698.500	199.004	6.298	23.937	199.004	108.859	3.018	7.220	7.326	0.021
1699.000	198.896	6.318	23.727	198.896	109.171	3.191	7.354	5.258	0.018
1699.500	198.787	6.330	23.489	198.787	109.665	3.516	7.786	11.518	0.014
1700.000	198.678	6.333	23.388	198.678	110.842	3.855	8.072	18.330	0.012
1700.500	198.568	6.326	23.388	198.568	113.165	3.938	8.301	20.446	0.011
1701.000	198.459	6.312	23.783	198.459	115.926	3.703	8.696	17.849	0.008
1701.500	198.351	6.300	24.365	198.351	116.453	3.365	8.852	11.485	0.007
1702.000	198.243	6.291	24.829	198.243	114.883	3.162	8.443	5.559	0.009
1702.500	198.135	6.285	25.066	198.135	114.373	3.166	8.127	3.927	0.010
1703.000	198.027	6.290	24.712	198.027	115.332	3.224	8.480	10.660	0.007
1703.500	197.919	6.297	24.180	197.919	116.011	3.135	8.927	19.707	0.003
1704.000	197.811	6.307	24.460	197.811	116.721	2.951	8.781	26.250	0.001
1704.500	197.702	6.314	25.137	197.702	117.402	2.931	8.259	26.569	0.002
1705.000	197.594	6.307	25.009	197.594	116.756	3.126	8.119	19.983	0.002
1705.500	197.485	6.294	24.530	197.485	115.683	3.271	8.607	12.199	-0.000
1706.000	197.377	6.296	24.797	197.377	116.446	3.214	9.000	11.910	-0.001
1706.500	197.269	6.312	25.994	197.269	118.849	3.091	8.893	16.212	0.001
1707.000	197.160	6.325	27.243	197.160	122.216	3.071	8.608	19.840	0.006
1707.500	197.051	6.331	27.786	197.051	126.965	3.146	8.775	22.859	0.010
1708.000	196.942	6.341	27.635	196.942	133.772	3.256	9.223	22.365	0.012
1708.500	196.832	6.368	27.929	196.832	142.191	3.365	9.339	16.143	0.011
1709.000	196.721	6.403	28.956	196.721	149.699	3.437	8.899	10.821	0.009
1709.500	196.609	6.421	29.496	196.609	152.731	3.434	8.153	11.647	0.006
1710.000	196.496	6.411	29.921	196.496	151.949	3.374	7.341	15.556	0.004
1710.500	196.385	6.389	31.759	196.385	151.792	3.395	6.630	18.079	0.004
1711.000	196.273	6.375	34.443	196.273	153.542	3.583	6.437	19.267	0.005
1711.500	196.163	6.373	35.592	196.163	153.798	3.802	6.843	23.323	0.003
1712.000	196.052	6.376	34.909	196.052	150.279	3.870	7.374	30.915	0.000
1712.500	195.941	6.378	33.893	195.941	146.397	3.759	7.703	30.453	-0.002
1713.000	195.830	6.385	33.753	195.830	145.571	3.558	7.885	17.180	-0.003
1713.500	195.719	6.425	34.281	195.719	146.829	3.430	7.851	2.965	-0.004
1714.000	195.605	6.501	34.093	195.605	147.793	3.481	7.731	-4.699	-0.004
1714.500	195.489	6.588	32.773	195.489	147.324	3.617	7.694	-13.883	-0.004
1715.000	195.370	6.666	31.273	195.370	144.890	3.685	7.591	-18.529	-0.002
1715.500	195.248	6.732	30.570	195.248	140.765	3.638	7.396	-16.684	0.001
1716.000	195.124	6.778	30.555	195.124	137.091	3.538	7.420	-15.218	0.003
1716.500	194.999	6.813	30.937	194.999	135.684	3.480	7.717	-14.903	0.000
1717.000	194.872	6.840	31.188	194.872	137.481	3.506	7.904	-11.217	-0.002
1717.500	194.744	6.860	31.615	194.744	141.281	3.634	7.786	-7.603	-0.001
1718.000	194.616	6.873	31.988	194.616	143.800	3.826	7.470	-5.760	0.006
1718.500	194.487	6.874	32.119	194.487	142.177	3.898	7.424	-3.942	0.015
1719.000	194.358	6.850	31.901	194.358	137.377	3.790	7.595	-3.809	0.020
1719.500	194.230	6.824	31.018	194.230	132.364	3.655	7.457	-5.936	0.021
1720.000	194.104	6.817	29.955	194.104	129.479	3.577	6.982	-10.060	0.019
1720.500	193.977	6.827	30.160	193.977	129.650	3.531	6.570	-14.985	0.017
1721.000	193.849	6.843	31.816	193.849	132.462	3.479	6.344	-18.015	0.015
1721.500	193.722	6.849	32.316	193.722	136.902	3.441	6.009	-18.246	0.014
1722.000	193.594	6.838	31.556	193.594	140.220	3.516	5.585	-17.656	0.013
1722.500	193.466	6.826	32.369	193.466	140.118	3.712	5.734	-16.078	0.013
1723.000	193.339	6.810	34.722	193.339	139.683	3.867	6.690	-13.086	0.011
1723.500	193.213	6.761	34.945	193.213	142.438	3.875	7.719	-12.601	0.012
1724.000	193.089	6.664	32.947	193.089	145.868	3.772	8.230	-16.496	0.013
1724.500	192.970	6.510	31.791	192.970	146.273	3.570	8.189	-22.335	0.013
1725.000	192.856	6.340	31.625	192.856	145.797	3.338	7.770	-24.886	0.012

1725.500	192.747	6.226	31.619	192.747	146.192	3.245	7.303	-23.981	0.008
1726.000	192.642	6.184	32.070	192.642	146.517	3.421	6.980	-25.677	0.003
1726.500	192.538	6.167	33.274	192.538	146.616	3.759	6.955	-33.622	0.000
1727.000	192.434	6.158	34.269	192.434	148.063	3.988	7.320	-45.801	-0.001
1727.500	192.331	6.162	33.825	192.331	150.237	3.946	7.684	-55.077	0.000
1728.000	192.227	6.174	32.997	192.227	152.036	3.734	7.471	-54.489	0.004
1728.500	192.123	6.184	33.267	192.123	152.985	3.610	6.905	-44.244	0.009
1729.000	192.019	6.186	34.063	192.019	151.795	3.748	6.535	-33.154	0.010
1729.500	191.914	6.191	33.845	191.914	149.088	4.040	6.677	-28.069	0.007
1730.000	191.810	6.201	32.584	191.810	147.362	4.163	7.198	-26.772	0.001
1730.500	191.705	6.210	31.307	191.705	147.526	3.975	7.463	-23.430	-0.003
1731.000	191.600	6.209	30.963	191.600	147.335	3.592	7.302	-20.879	-0.003
1731.500	191.495	6.197	32.070	191.495	145.328	3.220	6.986	-23.240	-0.002
1732.000	191.390	6.186	33.660	191.390	143.902	3.089	6.759	-26.722	-0.001
1732.500	191.286	6.192	33.714	191.286	143.658	3.254	6.537	-27.919	-0.001
1733.000	191.181	6.203	32.441	191.181	143.532	3.470	6.126	-27.278	0.001
1733.500	191.076	6.200	31.340	191.076	143.736	3.518	5.618	-29.506	0.005
1734.000	190.971	6.186	30.983	190.971	144.207	3.429	5.578	-33.439	0.007
1734.500	190.867	6.179	31.493	190.867	143.655	3.287	6.017	-33.292	0.005
1735.000	190.763	6.184	31.989	190.763	143.426	3.212	6.253	-27.972	0.003
1735.500	190.658	6.190	31.270	190.658	144.434	3.347	6.187	-21.834	0.000
1736.000	190.554	6.188	30.910	190.554	144.275	3.605	6.351	-18.411	-0.002
1736.500	190.450	6.188	32.233	190.450	143.238	3.747	6.682	-17.756	-0.004
1737.000	190.345	6.195	33.438	190.345	142.954	3.720	6.579	-21.536	-0.002
1737.500	190.240	6.202	32.810	190.240	143.912	3.629	6.180	-29.445	0.001
1738.000	190.135	6.200	31.880	190.135	145.919	3.541	6.161	-32.028	0.003
1738.500	190.031	6.186	32.330	190.031	148.215	3.468	6.718	-24.830	0.002
1739.000	189.927	6.174	34.080	189.927	149.300	3.353	7.305	-17.294	-0.000
1739.500	189.823	6.180	36.053	189.823	150.731	3.148	7.268	-16.424	0.001
1740.000	189.718	6.187	37.249	189.718	152.946	3.028	6.449	-20.713	0.006
1740.500	189.614	6.182	37.955	189.614	153.470	3.224	5.605	-26.963	0.009
1741.000	189.510	6.184	37.590	189.510	151.656	3.632	5.660	-32.513	0.008
1741.500	189.405	6.201	36.080	189.405	149.536	3.912	6.503	-38.472	0.002
1742.000	189.300	6.217	34.349	189.300	147.780	3.920	7.270	-43.038	-0.002
1742.500	189.195	6.216	32.988	189.195	146.406	3.747	7.613	-43.264	-0.002
1743.000	189.090	6.201	32.429	189.090	144.400	3.536	7.550	-42.883	-0.001
1743.500	188.985	6.189	33.053	188.985	142.812	3.384	7.192	-37.912	0.002
1744.000	188.880	6.186	33.237	188.880	144.372	3.326	6.876	-27.733	0.002
1744.500	188.776	6.190	32.324	188.776	146.841	3.291	6.910	-21.575	-0.000
1745.000	188.671	6.195	31.947	188.671	145.958	3.221	7.016	-22.197	-0.003
1745.500	188.567	6.192	32.581	188.567	144.631	3.202	6.973	-23.448	-0.004
1746.000	188.462	6.186	33.079	188.462	146.366	3.333	6.881	-25.634	-0.004
1746.500	188.358	6.190	33.187	188.358	149.327	3.552	6.756	-29.714	-0.003
1747.000	188.253	6.202	33.278	188.253	150.934	3.669	6.558	-30.287	-0.001
1747.500	188.148	6.210	32.971	188.148	151.137	3.606	6.519	-27.424	0.000
1748.000	188.043	6.211	31.661	188.043	148.600	3.505	6.742	-24.198	-0.001
1748.500	187.938	6.205	30.588	187.938	144.572	3.502	7.042	-21.404	-0.002
1749.000	187.833	6.201	31.117	187.833	142.942	3.544	7.322	-18.242	-0.003
1749.500	187.728	6.198	32.411	187.728	145.395	3.516	7.433	-14.253	-0.003
1750.000	187.624	6.189	32.373	187.624	148.082	3.454	7.173	-13.159	-0.001
1750.500	187.519	6.178	31.136	187.519	148.309	3.468	6.742	-19.128	0.002
1751.000	187.415	6.172	30.522	187.415	149.178	3.577	6.516	-22.694	0.004
1751.500	187.311	6.175	31.389	187.311	152.001	3.695	6.565	-23.491	0.003
1752.000	187.207	6.188	33.453	187.207	152.204	3.730	6.925	-26.685	0.001

1752.500	187.103	6.199	35.584	187.103	148.336	3.689	7.528	-28.381	-0.001
1753.000	186.998	6.197	36.255	186.998	147.161	3.662	8.030	-23.072	-0.001
1753.500	186.893	6.193	35.096	186.893	150.102	3.738	8.138	-13.746	0.001
1754.000	186.789	6.198	34.050	186.789	151.846	3.832	8.053	-8.690	0.003
1754.500	186.684	6.200	34.069	186.684	151.945	3.724	8.004	-11.184	0.001
1755.000	186.579	6.200	33.602	186.579	151.937	3.386	7.748	-16.839	-0.001
1755.500	186.474	6.206	32.793	186.474	150.475	3.125	7.077	-21.125	0.001
1756.000	186.369	6.207	33.228	186.369	149.339	3.215	6.353	-22.051	0.003
1756.500	186.264	6.196	34.723	186.264	151.713	3.568	6.436	-16.204	0.001
1757.000	186.159	6.195	35.620	186.159	153.948	3.766	7.280	-10.897	-0.004
1757.500	186.055	6.208	35.734	186.055	152.770	3.609	8.046	-11.584	-0.009
1758.000	185.949	6.209	35.019	185.949	151.365	3.423	8.053	-16.444	-0.011
1758.500	185.844	6.192	34.026	185.844	151.521	3.523	7.316	-21.059	-0.009
1759.000	185.740	6.180	34.265	185.740	149.529	3.769	6.627	-20.731	-0.007
1759.500	185.636	6.186	34.780	185.636	145.593	3.780	6.618	-16.302	-0.007
1760.000	185.531	6.202	33.331	185.531	142.735	3.547	6.748	-13.389	-0.005
1760.500	185.426	6.215	30.884	185.426	140.997	3.356	6.500	-13.613	0.001
1761.000	185.321	6.220	29.590	185.321	138.961	3.343	6.423	-13.583	0.008
1761.500	185.215	6.210	29.560	185.215	136.459	3.435	7.222	-13.446	0.009
1762.000	185.110	6.191	29.951	185.110	132.542	3.504	8.373	-14.638	0.006
1762.500	185.006	6.182	30.436	185.006	127.416	3.434	9.196	-15.480	0.003
1763.000	184.902	6.190	30.461	184.902	123.710	3.266	9.442	-13.780	0.003
1763.500	184.797	6.207	29.294	184.797	123.071	3.191	9.367	-11.378	0.005
1764.000	184.692	6.224	27.810	184.692	124.264	3.262	9.409	-13.052	0.005
1764.500	184.586	6.223	27.199	184.586	126.641	3.331	9.762	-15.988	0.003
1765.000	184.481	6.202	27.379	184.481	130.854	3.342	10.188	-9.164	-0.001
1765.500	184.376	6.190	28.245	184.376	135.139	3.350	10.484	-1.329	-0.003
1766.000	184.271	6.197	29.628	184.271	136.867	3.322	10.649	-6.482	-0.003
1766.500	184.167	6.199	30.461	184.167	136.347	3.228	10.584	-14.574	-0.003
1767.000	184.062	6.194	29.755	184.062	134.250	3.130	10.072	-11.590	-0.000
1767.500	183.957	6.198	28.282	183.957	130.337	3.050	8.975	-5.121	0.006
1768.000	183.852	6.214	27.377	183.852	126.284	2.982	7.978	-2.759	0.012
1768.500	183.747	6.223	26.886	183.747	124.450	2.992	7.837	-4.580	0.013
1769.000	183.641	6.213	26.575	183.641	124.270	3.048	8.466	-8.284	0.010
1769.500	183.536	6.196	26.451	183.536	123.948	3.040	9.146	-10.822	0.006
1770.000	183.432	6.188	25.932	183.432	123.012	2.969	9.388	-11.865	0.004
1770.500	183.327	6.186	24.981	183.327	121.725	2.883	9.184	-12.647	0.005
1771.000	183.223	6.187	24.741	183.223	120.936	2.837	8.836	-11.051	0.008
1771.500	183.119	6.189	25.228	183.119	121.430	2.881	8.682	-8.992	0.009
1772.000	183.014	6.190	25.070	183.014	122.704	2.994	8.801	-7.447	0.009
1772.500	182.910	6.196	24.341	182.910	122.778	3.074	9.080	-8.479	0.007
1773.000	182.805	6.205	24.417	182.805	120.384	3.062	9.375	-13.980	0.005
1773.500	182.700	6.212	25.360	182.700	118.035	2.922	9.655	-21.212	0.003
1774.000	182.595	6.208	25.566	182.595	118.850	2.719	9.780	-22.904	0.002
1774.500	182.490	6.198	24.491	182.490	121.133	2.650	9.580	-18.564	0.002
1775.000	182.385	6.195	23.395	182.385	122.493	2.784	9.330	-16.409	0.002
1775.500	182.280	6.193	23.102	182.280	122.980	2.950	9.536	-21.152	0.001
1776.000	182.176	6.194	23.534	182.176	122.394	2.990	9.919	-21.483	-0.001
1776.500	182.071	6.199	24.050	182.071	119.808	2.974	9.834	-12.540	-0.001
1777.000	181.966	6.208	24.275	181.966	117.835	2.957	9.261	-6.915	0.001
1777.500	181.861	6.212	24.576	181.861	117.760	2.928	8.782	-5.796	0.003
1778.000	181.756	6.208	25.126	181.756	118.477	2.935	8.813	0.138	0.001
1778.500	181.651	6.208	25.342	181.651	119.486	2.980	9.209	8.331	-0.002
1779.000	181.545	6.209	24.984	181.545	121.310	3.049	9.696	8.576	-0.004

1779.500	181.440	6.206	24.671	181.440	123.271	3.167	10.159	-0.149	-0.005
1780.000	181.335	6.199	25.123	181.335	124.490	3.252	10.522	-5.938	-0.002
1780.500	181.231	6.197	26.431	181.231	125.025	3.224	10.456	-7.320	0.005
1781.000	181.126	6.198	27.190	181.126	125.000	3.206	10.027	-9.933	0.011
1781.500	181.021	6.205	26.059	181.021	123.790	3.249	9.818	-12.738	0.012
1782.000	180.916	6.211	24.001	180.916	121.079	3.213	9.805	-14.574	0.008
1782.500	180.811	6.200	22.758	180.811	118.403	3.073	9.477	-16.422	0.009
1783.000	180.706	6.182	22.799	180.706	118.010	2.993	8.846	-18.820	0.015
1783.500	180.602	6.185	23.514	180.602	119.931	3.061	8.399	-20.490	0.020
1784.000	180.498	6.205	23.994	180.498	122.488	3.160	8.370	-16.274	0.020
1784.500	180.392	6.207	23.781	180.392	124.135	3.151	8.596	-9.044	0.015
1785.000	180.288	6.191	23.688	180.288	123.519	3.070	8.852	-8.372	0.008
1785.500	180.183	6.187	24.102	180.183	120.477	3.057	9.140	-15.410	0.003
1786.000	180.079	6.199	24.247	180.079	117.119	3.158	9.465	-21.687	-0.000
1786.500	179.974	6.206	23.771	179.974	116.367	3.319	9.739	-22.547	-0.002
1787.000	179.869	6.202	23.414	179.869	117.117	3.467	9.919	-17.764	-0.003
1787.500	179.764	6.192	24.014	179.764	116.653	3.562	9.787	-12.483	-0.004
1788.000	179.659	6.184	25.215	179.659	116.222	3.643	9.194	-12.014	-0.004
1788.500	179.555	6.187	26.858	179.555	118.990	3.710	8.589	-15.279	-0.002
1789.000	179.451	6.204	28.704	179.451	123.806	3.671	8.421	-13.508	0.002
1789.500	179.345	6.221	29.592	179.345	128.516	3.562	8.389	-8.040	0.011
1790.000	179.240	6.222	28.823	179.240	132.918	3.516	8.317	-6.865	0.027
1790.500	179.134	6.219	28.063	179.134	135.665	3.480	8.349	-8.728	0.045
1791.000	179.029	6.224	28.744	179.029	135.790	3.348	8.073	-11.269	0.062
1791.500	178.923	6.225	30.774	178.923	135.492	3.192	6.985	-10.028	0.074
1792.000	178.818	6.210	32.946	178.818	137.519	3.135	5.848	-5.736	0.073
1792.500	178.713	6.192	33.446	178.713	140.868	3.204	5.987	-7.222	0.055
1793.000	178.608	6.195	33.037	178.608	142.190	3.371	7.326	-12.919	0.030
1793.500	178.503	6.218	33.417	178.503	141.598	3.550	8.680	-14.058	0.011
1794.000	178.398	6.235	34.594	178.398	142.226	3.569	9.431	-11.382	0.002
1794.500	178.292	6.231	34.528	178.292	143.872	3.438	9.639	-3.622	0.001
1795.000	178.186	6.218	31.409	178.186	143.531	3.410	9.837	3.562	0.002
1795.500	178.080	6.212	27.243	178.080	139.440	3.510	10.434	-0.126	0.001
1796.000	177.975	6.208	24.434	177.975	128.033	3.565	10.663	-12.960	0.001
1796.500	177.870	6.197	22.624	177.870	109.544	3.638	9.345	-21.186	0.005
1797.000	177.766	6.184	21.127	177.766	96.964	3.853	6.776	-19.961	0.013
1797.500	177.661	6.194	20.469	177.661	102.327	3.855	5.113	-20.254	0.017
1798.000	177.556	6.226	21.282	177.556	117.838	3.477	5.887	-25.805	0.014
1798.500	177.450	6.247	22.481	177.450	127.422	3.141	7.829	-30.126	0.011
1799.000	177.344	6.243	22.320	177.344	127.041	3.006	9.280	-29.256	0.013
1799.500	177.238	6.219	21.815	177.238	120.198	2.909	10.116	-21.541	0.016
1800.000	177.133	6.187	21.535	177.133	109.969	2.835	10.616	-4.702	0.016
1800.500	177.029	6.168	20.470	177.029	99.719	2.911	10.637	9.829	0.013
1801.000	176.925	6.165	19.380	176.925	92.964	3.070	10.264	7.529	0.008
1801.500	176.821	6.167	19.144	176.821	91.120	3.097	9.983	-6.178	0.004
1802.000	176.717	6.171	19.316	176.717	94.260	2.972	9.867	-17.228	0.005
1802.500	176.614	6.174	19.195	176.614	100.400	2.778	9.683	-24.681	0.013
1803.000	176.510	6.176	18.929	176.510	105.551	2.581	9.555	-28.582	0.023
1803.500	176.406	6.169	18.349	176.406	104.297	2.504	9.523	-23.507	0.028
1804.000	176.302	6.143	17.082	176.302	95.754	2.601	9.380	-11.552	0.026
1804.500	176.199	6.110	15.762	176.199	84.871	2.771	9.222	2.210	0.021
1805.000	176.098	6.095	15.380	176.098	77.468	2.863	9.488	12.823	0.015
1805.500	175.996	6.102	16.168	175.996	74.803	2.795	10.275	12.203	0.011
1806.000	175.895	6.116	17.740	175.895	76.725	2.626	10.979	1.964	0.010

1806.500	175.793	6.134	19.605	175.793	84.503	2.558	11.106	-8.357	0.011
1807.000	175.690	6.187	21.421	175.690	97.618	2.664	10.953	-13.561	0.011
1807.500	175.584	6.279	22.978	175.584	111.777	2.795	10.829	-12.303	0.006
1808.000	175.476	6.354	24.859	175.476	125.194	2.887	10.274	-4.072	0.001
1808.500	175.366	6.377	27.251	175.366	137.380	3.063	9.055	8.017	0.000
1809.000	175.255	6.372	28.534	175.255	142.589	3.363	8.111	17.531	0.003
1809.500	175.144	6.368	28.449	175.144	136.683	3.680	8.279	19.885	0.004
1810.000	175.034	6.361	29.075	175.034	126.668	3.897	8.805	22.730	0.005
1810.500	174.923	6.350	30.317	174.923	123.652	3.940	8.504	25.480	0.006
1811.000	174.814	6.349	30.949	174.814	130.317	3.848	7.434	14.344	0.008
1811.500	174.703	6.360	31.130	174.703	139.097	3.698	6.636	-8.618	0.009
1812.000	174.593	6.359	31.604	174.593	141.792	3.476	6.740	-21.080	0.010
1812.500	174.483	6.331	32.663	174.483	139.327	3.225	7.365	-17.022	0.010
1813.000	174.374	6.291	33.026	174.374	136.113	3.059	7.887	-10.530	0.008
1813.500	174.266	6.254	31.345	174.266	133.890	3.062	8.104	-11.310	0.007
1814.000	174.160	6.221	28.625	174.160	132.234	3.240	8.219	-14.763	0.005
1814.500	174.055	6.189	26.289	174.055	130.107	3.464	8.490	-16.581	0.005
1815.000	173.951	6.168	24.363	173.951	125.062	3.514	8.994	-17.035	0.003
1815.500	173.847	6.167	22.775	173.847	118.129	3.347	9.564	-18.054	-0.001
1816.000	173.743	6.177	21.852	173.743	114.733	3.177	9.808	-17.847	-0.003
1816.500	173.639	6.181	22.372	173.639	118.386	3.180	9.596	-13.392	-0.004
1817.000	173.535	6.172	25.086	173.535	128.583	3.267	9.196	-8.048	-0.004
1817.500	173.431	6.171	29.386	173.431	140.251	3.230	8.826	-7.068	-0.003
1818.000	173.327	6.181	32.489	173.327	146.359	3.098	8.238	-2.163	-0.002
1818.500	173.223	6.183	33.310	173.223	146.678	3.046	7.282	13.027	0.001
1819.000	173.119	6.177	33.423	173.119	147.079	3.122	6.383	24.666	0.005
1819.500	173.015	6.182	33.080	173.015	149.217	3.247	5.973	23.928	0.007
1820.000	172.910	6.189	31.465	172.910	149.501	3.284	5.788	17.712	0.009
1820.500	172.806	6.184	29.589	172.806	147.549	3.159	5.602	10.140	0.011
1821.000	172.702	6.178	28.963	172.702	146.360	3.004	5.470	-5.278	0.011
1821.500	172.597	6.186	29.379	172.597	147.397	2.919	5.550	-19.191	0.010
1822.000	172.493	6.193	29.935	172.493	148.023	2.884	5.955	-20.647	0.007
1822.500	172.388	6.186	30.521	172.388	146.846	2.959	6.458	-17.157	0.004
1823.000	172.284	6.176	31.943	172.284	145.507	3.234	6.967	-22.047	0.003
1823.500	172.180	6.176	34.090	172.180	144.019	3.518	8.518	-32.917	-0.001
1824.000	172.076	6.178	35.165	172.076	140.239	3.555	11.780	-41.955	-0.008
1824.500	171.972	6.166	33.489	171.972	135.782	3.401	14.961	-48.185	-0.013
1825.000	171.869	6.146	30.618	171.869	134.600	3.269	15.394	-48.117	-0.011
1825.500	171.766	6.139	28.134	171.766	136.122	3.284	12.771	-39.584	-0.003
1826.000	171.663	6.148	25.979	171.663	135.388	3.337	9.471	-31.612	0.005
1826.500	171.560	6.154	24.485	171.560	131.499	3.298	8.340	-31.625	0.002
1827.000	171.456	6.152	23.850	171.456	127.828	3.254	9.154	-33.523	-0.005
1827.500	171.353	6.142	23.562	171.353	125.690	3.290	10.477	-29.918	-0.009
1828.000	171.251	6.126	23.273	171.251	122.605	3.387	11.449	-23.857	-0.010
1828.500	171.148	6.114	22.835	171.148	118.512	3.421	11.934	-16.080	-0.008
1829.000	171.046	6.114	22.062	171.046	115.847	3.278	12.137	-2.637	-0.005
1829.500	170.944	6.112	21.560	170.944	116.110	3.045	11.975	12.448	-0.003
1830.000	170.843	6.104	21.908	170.843	118.568	2.880	11.414	17.200	0.001
1830.500	170.741	6.095	22.555	170.741	120.292	2.777	10.788	8.516	0.005
1831.000	170.640	6.087	22.731	170.640	118.839	2.661	10.507	0.764	0.008
1831.500	170.539	6.085	22.398	170.539	116.480	2.562	10.447	3.801	0.009
1832.000	170.438	6.106	22.110	170.438	117.471	2.592	10.242	9.047	0.010
1832.500	170.336	6.136	22.382	170.336	122.674	2.758	9.855	7.982	0.010
1833.000	170.233	6.153	23.801	170.233	131.011	2.920	9.452	4.638	0.008

1833.500	170.130	6.155	26.112	170.130	140.580	3.000	8.944	6.966	0.006
1834.000	170.026	6.146	27.508	170.026	146.512	3.112	8.546	16.320	0.006
1834.500	169.924	6.124	26.581	169.924	143.864	3.271	8.917	26.786	0.007
1835.000	169.822	6.108	24.992	169.822	133.076	3.278	9.880	27.076	0.006
1835.500	169.720	6.114	23.811	169.720	119.638	3.073	10.404	14.493	0.006
1836.000	169.618	6.131	22.640	169.618	110.613	2.888	10.031	-5.034	0.010
1836.500	169.515	6.137	21.667	169.515	107.464	2.898	9.424	-24.585	0.015
1837.000	169.412	6.123	21.761	169.412	108.346	2.998	9.533	-36.788	0.017
1837.500	169.310	6.112	22.867	169.310	112.788	3.020	10.111	-38.413	0.015
1838.000	169.208	6.111	24.129	169.208	119.647	2.990	10.075	-32.649	0.014
1838.500	169.107	6.119	25.236	169.107	124.413	3.012	9.471	-22.406	0.015
1839.000	169.004	6.120	25.855	169.004	124.278	3.067	9.647	-11.156	0.014
1839.500	168.902	6.094	25.161	168.902	119.503	3.055	11.196	-5.600	0.010
1840.000	168.802	6.037	23.558	168.802	112.469	2.920	13.164	-2.403	0.009
1840.500	168.703	5.976	22.691	168.703	107.060	2.700	14.480	0.584	0.013
1841.000	168.606	5.942	22.657	168.606	103.546	2.524	14.789	1.425	0.020
1841.500	168.510	5.929	22.029	168.510	99.397	2.494	14.261	-1.905	0.027
1842.000	168.414	5.928	20.504	168.414	94.799	2.592	13.283	-11.882	0.032
1842.500	168.318	5.940	19.682	168.318	93.079	2.738	12.528	-24.379	0.032
1843.000	168.221	5.952	20.485	168.221	96.696	2.869	12.718	-28.700	0.026
1843.500	168.125	5.950	22.608	168.125	105.154	2.972	13.532	-27.111	0.017
1844.000	168.028	5.962	25.263	168.028	118.324	3.081	13.742	-31.032	0.011
1844.500	167.931	6.019	27.769	167.931	133.204	3.189	12.862	-35.974	0.009
1845.000	167.831	6.097	29.253	167.831	141.948	3.207	11.541	-34.891	0.010
1845.500	167.730	6.149	28.901	167.730	138.167	3.118	10.580	-27.416	0.011
1846.000	167.626	6.156	27.310	167.626	126.439	3.085	10.277	-18.401	0.012
1846.500	167.523	6.143	25.898	167.523	117.527	3.165	10.492	-10.828	0.012
1847.000	167.420	6.131	25.607	167.420	117.673	3.223	10.658	-4.822	0.011
1847.500	167.318	6.126	26.630	167.318	124.721	3.183	10.287	-1.073	0.011
1848.000	167.215	6.127	28.461	167.215	133.835	3.113	9.513	0.400	0.013
1848.500	167.113	6.134	30.027	167.113	140.569	3.063	9.009	-3.133	0.014
1849.000	167.010	6.137	30.240	167.010	143.603	3.095	9.409	-10.787	0.012
1849.500	166.908	6.133	29.539	166.908	145.755	3.215	10.717	-16.447	0.004
1850.000	166.805	6.140	29.133	166.805	147.443	3.269	11.931	-16.978	-0.003
1850.500	166.702	6.158	28.647	166.702	145.486	3.157	12.054	-15.470	-0.005
1851.000	166.599	6.171	27.063	166.599	139.382	3.011	11.202	-14.406	-0.002
1851.500	166.495	6.165	25.197	166.495	132.383	2.975	10.282	-16.607	0.003
1852.000	166.391	6.135	24.190	166.391	126.633	2.986	10.050	-22.323	0.005
1852.500	166.289	6.086	24.173	166.289	121.909	2.959	10.388	-28.132	0.005
1853.000	166.188	6.051	24.489	166.188	117.398	2.940	10.980	-34.408	0.004
1853.500	166.089	6.048	24.224	166.089	114.389	2.900	11.694	-34.884	0.004
1854.000	165.989	6.059	23.453	165.989	113.537	2.786	12.201	-24.575	0.005
1854.500	165.889	6.059	22.957	165.889	113.691	2.740	12.163	-15.602	0.007
1855.000	165.789	6.043	23.238	165.789	114.262	2.899	11.714	-19.396	0.007
1855.500	165.689	6.018	24.380	165.689	117.085	3.110	11.347	-24.586	0.005
1856.000	165.591	6.008	25.996	165.591	125.028	3.180	11.340	-19.030	0.001
1856.500	165.492	6.016	27.855	165.492	136.743	3.179	11.555	-8.552	-0.002
1857.000	165.393	6.020	29.858	165.393	145.219	3.264	11.587	-3.176	-0.004
1857.500	165.295	6.006	30.447	165.295	146.687	3.440	11.088	-6.077	-0.004
1858.000	165.196	5.989	28.410	165.196	142.959	3.565	10.345	-12.552	-0.002
1858.500	165.099	5.981	26.215	165.099	135.312	3.509	10.071	-16.834	-0.001
1859.000	165.001	5.978	25.130	165.001	126.214	3.343	10.412	-21.417	-0.000
1859.500	164.904	5.970	24.579	164.904	120.076	3.212	10.889	-29.488	-0.001
1860.000	164.807	5.960	23.899	164.807	119.066	3.224	10.974	-35.026	-0.001

1860.500	164.710	5.961	22.982	164.710	120.097	3.397	10.579	-33.363	0.000
1861.000	164.613	5.971	22.366	164.613	120.860	3.471	10.261	-27.576	-0.000
1861.500	164.515	5.975	22.748	164.515	122.003	3.189	10.280	-22.089	-0.002
1862.000	164.418	5.969	23.395	164.418	124.140	2.811	10.130	-18.325	-0.001
1862.500	164.321	5.968	23.890	164.321	126.181	2.683	9.615	-16.199	0.002
1863.000	164.224	5.971	24.372	164.224	126.952	2.742	9.237	-16.011	0.005
1863.500	164.127	5.977	24.273	164.127	126.486	2.767	9.218	-16.663	0.005
1864.000	164.029	5.982	23.558	164.029	125.117	2.717	9.327	-15.940	0.005
1864.500	163.932	5.977	23.410	163.932	123.985	2.687	9.329	-15.359	0.006
1865.000	163.834	5.972	23.754	163.834	124.074	2.712	9.027	-15.061	0.009
1865.500	163.737	5.973	24.007	163.737	125.395	2.810	8.487	-12.722	0.011
1866.000	163.640	5.975	24.577	163.640	126.156	2.990	8.158	-7.087	0.012
1866.500	163.542	5.979	25.554	163.542	125.098	3.221	8.439	-4.623	0.008
1867.000	163.445	5.985	26.342	163.445	124.262	3.451	9.277	-5.976	0.002
1867.500	163.347	5.984	26.499	163.347	126.102	3.625	9.919	-8.514	-0.003
1868.000	163.249	5.981	26.160	163.249	128.912	3.663	9.889	-10.999	-0.003
1868.500	163.152	5.975	25.335	163.152	130.342	3.516	9.576	-13.539	-0.001
1869.000	163.055	5.963	24.290	163.055	129.992	3.289	9.646	-15.147	0.003
1869.500	162.958	5.953	23.133	162.958	127.782	3.158	10.185	-13.740	0.005
1870.000	162.861	5.957	22.449	162.861	124.233	3.146	10.721	-9.257	0.006
1870.500	162.764	5.963	22.597	162.764	122.216	3.153	10.772	-4.822	0.007
1871.000	162.667	5.960	23.309	162.667	123.020	3.169	10.360	-6.807	0.008
1871.500	162.570	5.950	23.546	162.570	124.690	3.230	10.143	-17.682	0.008
1872.000	162.474	5.943	22.987	162.474	125.383	3.289	10.478	-27.765	0.005
1872.500	162.378	5.944	22.663	162.378	124.942	3.263	11.077	-26.557	0.001
1873.000	162.281	5.960	23.142	162.281	122.141	3.101	11.666	-19.166	-0.001
1873.500	162.184	5.974	23.647	162.184	115.734	2.834	12.180	-15.301	-0.003
1874.000	162.087	5.972	23.616	162.087	108.937	2.644	12.509	-17.609	-0.002
1874.500	161.990	5.965	22.752	161.990	104.549	2.633	12.720	-21.505	-0.001
1875.000	161.893	5.961	21.447	161.893	103.349	2.703	12.859	-21.855	-0.001
1875.500	161.796	5.954	21.132	161.796	105.650	2.724	12.855	-20.647	-0.002
1876.000	161.699	5.948	22.170	161.699	109.655	2.650	12.849	-22.277	-0.002
1876.500	161.603	5.953	22.881	161.603	112.287	2.534	12.987	-21.761	-0.003
1877.000	161.506	5.957	22.427	161.506	113.521	2.523	13.056	-17.648	-0.002
1877.500	161.409	5.960	21.930	161.409	113.563	2.658	12.755	-17.962	0.002
1878.000	161.312	5.959	22.031	161.312	111.967	2.801	12.061	-23.532	0.007
1878.500	161.216	5.952	22.382	161.216	109.536	2.841	11.218	-25.973	0.011
1879.000	161.119	5.944	22.603	161.119	108.832	2.839	10.451	-23.356	0.012
1879.500	161.023	5.944	22.849	161.023	111.708	2.874	9.926	-21.178	0.011
1880.000	160.926	5.950	23.238	160.926	116.772	2.944	9.887	-24.563	0.009
1880.500	160.830	5.952	23.595	160.830	119.481	3.029	10.533	-30.034	0.005
1881.000	160.733	5.946	24.140	160.733	118.467	3.155	11.515	-30.366	0.001
1881.500	160.637	5.941	24.435	160.637	115.094	3.282	12.172	-25.662	-0.001
1882.000	160.541	5.944	24.011	160.541	112.148	3.269	12.230	-24.152	-0.000
1882.500	160.444	5.946	23.530	160.444	112.533	3.184	11.823	-25.958	0.002
1883.000	160.348	5.944	23.803	160.348	116.339	3.215	11.580	-23.992	0.003
1883.500	160.252	5.938	24.524	160.252	119.596	3.248	11.875	-20.533	0.001
1884.000	160.155	5.926	25.318	160.155	120.442	3.103	12.205	-23.009	-0.000
1884.500	160.060	5.918	25.720	160.060	123.111	2.921	11.943	-25.783	0.002
1885.000	159.964	5.918	25.577	159.964	131.226	2.892	11.094	-21.520	0.007
1885.500	159.869	5.921	25.582	159.869	140.944	3.018	10.238	-18.436	0.014
1886.000	159.773	5.924	24.961	159.773	144.001	3.187	10.190	-20.698	0.020
1886.500	159.677	5.927	23.209	159.677	133.012	3.204	11.297	-21.922	0.022
1887.000	159.582	5.925	21.089	159.582	109.790	3.015	12.884	-18.323	0.024

1887.500	159.486	5.923	19.071	159.486	88.900	2.830	14.134	-14.364	0.026
1888.000	159.390	5.937	17.945	159.390	80.566	2.770	14.834	-13.701	0.027
1888.500	159.294	5.957	18.280	159.294	79.056	2.771	15.011	-14.772	0.027
1889.000	159.197	5.959	19.532	159.197	78.307	2.802	14.782	-13.514	0.028
1889.500	159.100	5.949	20.865	159.100	81.660	2.871	14.408	-13.839	0.027
1890.000	159.004	5.949	22.631	159.004	91.705	2.880	13.694	-17.749	0.027
1890.500	158.907	5.967	24.969	158.907	107.554	2.801	12.053	-20.252	0.030
1891.000	158.810	5.998	26.735	158.810	123.694	2.767	9.865	-19.742	0.034
1891.500	158.711	6.030	26.887	158.711	130.608	2.830	8.609	-22.394	0.035
1892.000	158.612	6.044	25.414	158.612	127.049	2.888	8.902	-28.256	0.032
1892.500	158.512	6.037	23.604	158.512	121.297	2.908	9.808	-27.931	0.031
1893.000	158.413	6.013	22.579	158.413	117.415	2.940	10.526	-20.496	0.032
1893.500	158.315	5.992	22.386	158.315	113.078	3.006	11.007	-17.907	0.031
1894.000	158.217	5.995	22.561	158.217	109.028	3.089	11.315	-21.544	0.031
1894.500	158.119	6.017	23.085	158.119	107.828	3.140	11.437	-18.776	0.031
1895.000	158.020	6.027	23.868	158.020	109.253	3.095	11.579	-11.191	0.033
1895.500	157.921	6.023	24.139	157.921	110.057	2.941	12.039	-13.337	0.032
1896.000	157.822	6.022	23.759	157.822	108.365	2.820	12.698	-17.914	0.027
1896.500	157.723	6.033	23.471	157.723	107.773	2.897	13.011	-13.727	0.020
1897.000	157.624	6.054	23.999	157.624	113.225	3.123	12.616	-9.376	0.016
1897.500	157.523	6.076	25.173	157.523	123.946	3.239	11.736	-16.418	0.014
1898.000	157.423	6.092	25.988	157.423	133.737	3.156	10.835	-23.044	0.013
1898.500	157.321	6.103	25.537	157.321	135.946	3.091	10.186	-23.861	0.015
1899.000	157.220	6.109	24.408	157.220	129.054	3.162	10.193	-26.687	0.017
1899.500	157.118	6.102	23.175	157.118	117.174	3.234	11.077	-27.557	0.018
1900.000	157.017	6.096	22.411	157.017	104.484	3.152	11.819	-16.358	0.021
1900.500	156.915	6.110	22.006	156.915	95.202	2.983	11.063	-1.967	0.029
1901.000	156.813	6.133	21.374	156.813	93.490	2.913	9.291	2.651	0.038
1901.500	156.710	6.150	20.789	156.710	98.581	2.913	8.717	-1.335	0.036
1902.000	156.607	6.166	21.347	156.607	104.566	2.887	9.900	-3.661	0.023
1902.500	156.503	6.182	23.007	156.503	109.848	2.965	10.976	1.864	0.009
1903.000	156.399	6.186	24.870	156.399	117.762	3.191	10.838	12.585	0.002
1903.500	156.295	6.176	26.687	156.295	128.327	3.313	9.843	18.040	-0.001
1904.000	156.191	6.162	28.169	156.191	137.250	3.232	8.627	23.965	-0.000
1904.500	156.087	6.148	28.827	156.087	141.964	3.128	7.688	33.671	0.002
1905.000	155.984	6.143	29.080	155.984	142.145	3.084	7.222	35.235	0.002
1905.500	155.881	6.149	28.768	155.881	140.113	3.087	6.994	25.788	0.001
1906.000	155.778	6.159	27.542	155.778	140.068	3.106	7.018	31.184	-0.001
1906.500	155.675	6.167	26.597	155.675	143.495	3.072	7.258	44.766	-0.004
1907.000	155.571	6.171	26.595	155.571	145.988	3.012	7.187	38.066	-0.005
1907.500	155.467	6.172	27.383	155.467	145.134	3.026	6.662	20.251	-0.002
1908.000	155.363	6.174	28.376	155.363	141.918	3.069	6.251	18.005	0.001
1908.500	155.259	6.184	29.634	155.259	139.389	3.049	6.188	24.225	0.002
1909.000	155.155	6.195	30.032	155.155	138.822	3.017	6.239	18.553	0.002
1909.500	155.050	6.195	28.979	155.050	139.891	3.035	6.374	6.339	0.001
1910.000	154.946	6.179	27.977	154.946	140.085	3.087	6.597	0.525	-0.001
1910.500	154.842	6.164	27.964	154.842	139.626	3.146	6.781	-0.001	-0.001
1911.000	154.738	6.157	28.301	154.738	140.244	3.214	6.907	-4.860	-0.000
1911.500	154.635	6.151	28.239	154.635	142.239	3.316	7.067	-8.766	-0.000
1912.000	154.532	6.146	27.916	154.532	144.295	3.453	7.268	-5.966	-0.001
1912.500	154.428	6.152	28.015	154.428	145.827	3.552	7.494	-3.606	-0.004
1913.000	154.325	6.157	28.810	154.325	146.242	3.569	7.711	-5.210	-0.005
1913.500	154.222	6.148	29.199	154.222	143.709	3.566	7.881	-2.217	-0.004
1914.000	154.119	6.135	28.940	154.119	138.817	3.628	7.864	4.922	0.000

1914.500	154.016	6.129	29.114	154.016	136.052	3.770	7.590	6.640	0.007
1915.000	153.914	6.134	29.560	153.914	138.373	3.875	7.465	-1.167	0.010
1915.500	153.811	6.149	29.392	153.811	143.088	3.809	7.543	-11.055	0.008
1916.000	153.708	6.168	29.124	153.708	145.404	3.610	7.615	-14.359	0.006
1916.500	153.604	6.189	29.584	153.604	144.967	3.441	7.567	-11.058	0.005
1917.000	153.499	6.211	30.439	153.499	144.031	3.328	7.407	-9.365	0.008
1917.500	153.394	6.234	31.187	153.394	143.120	3.220	7.156	-8.389	0.012
1918.000	153.288	6.247	31.565	153.288	140.442	3.179	6.840	-3.511	0.016
1918.500	153.181	6.241	31.452	153.181	137.097	3.316	6.637	-0.149	0.017
1919.000	153.075	6.221	30.873	153.075	135.192	3.572	6.856	-1.736	0.014
1919.500	152.970	6.207	29.959	152.970	135.114	3.698	7.340	-5.189	0.012
1920.000	152.865	6.198	29.048	152.865	136.064	3.538	7.358	-9.950	0.015
1920.500	152.760	6.180	29.002	152.760	136.507	3.218	6.716	-16.858	0.023
1921.000	152.656	6.159	29.607	152.656	136.260	3.038	6.068	-20.684	0.028
1921.500	152.553	6.152	30.179	152.553	137.179	3.178	6.036	-15.875	0.028
1922.000	152.450	6.164	30.363	152.450	138.818	3.519	6.652	-9.244	0.021
1922.500	152.346	6.175	29.934	152.346	138.666	3.726	7.547	-6.125	0.012
1923.000	152.242	6.169	29.496	152.242	137.470	3.662	8.239	-5.631	0.003
1923.500	152.138	6.166	29.654	152.138	137.051	3.499	8.360	-9.377	-0.002
1924.000	152.035	6.177	29.737	152.035	139.253	3.395	7.880	-18.257	-0.002
1924.500	151.930	6.184	29.212	151.930	143.812	3.365	6.992	-27.329	0.003
1925.000	151.826	6.182	29.238	151.826	146.466	3.341	6.220	-26.977	0.008
1925.500	151.722	6.177	29.966	151.722	145.212	3.221	6.120	-17.612	0.010
1926.000	151.618	6.167	30.680	151.618	143.177	3.055	6.476	-9.771	0.008
1926.500	151.514	6.157	31.660	151.514	142.492	2.970	6.770	-7.929	0.006
1927.000	151.411	6.152	33.078	151.411	143.418	2.984	6.702	-6.901	0.007
1927.500	151.308	6.153	33.541	151.308	144.870	3.099	6.394	-6.786	0.011
1928.000	151.205	6.167	32.546	151.205	144.758	3.298	6.386	-10.360	0.012
1928.500	151.101	6.189	31.600	151.101	143.667	3.474	6.782	-13.678	0.009
1929.000	150.996	6.194	31.534	150.996	144.323	3.571	7.082	-17.173	0.006
1929.500	150.892	6.183	31.403	150.892	145.912	3.626	7.114	-23.834	0.005
1930.000	150.787	6.182	30.837	150.787	146.362	3.610	7.101	-28.159	0.004
1930.500	150.683	6.186	30.930	150.683	145.151	3.504	7.079	-27.016	0.003
1931.000	150.579	6.173	31.315	150.579	143.062	3.359	7.006	-24.996	0.002
1931.500	150.475	6.155	30.620	150.475	141.885	3.266	6.830	-23.622	0.001
1932.000	150.372	6.148	29.336	150.372	142.369	3.249	6.453	-16.696	0.002
1932.500	150.269	6.150	29.153	150.269	143.491	3.227	5.928	-8.591	0.006
1933.000	150.166	6.156	30.349	150.166	144.349	3.204	5.564	-8.213	0.009
1933.500	150.062	6.167	31.679	150.062	145.303	3.279	5.832	-11.356	0.008
1934.000	149.958	6.170	32.006	149.958	145.047	3.413	6.700	-12.345	0.003
1934.500	149.855	6.156	31.464	149.855	142.237	3.495	7.311	-12.450	-0.001
1935.000	149.751	6.154	30.728	149.751	139.266	3.475	7.035	-12.016	0.001
1935.500	149.648	6.176	30.213	149.648	139.461	3.297	6.057	-12.853	0.007
1936.000	149.544	6.197	30.154	149.544	142.295	2.978	5.147	-17.883	0.013
1936.500	149.439	6.189	30.328	149.439	144.004	2.742	4.806	-22.472	0.016
1937.000	149.335	6.162	30.826	149.335	142.764	2.799	5.120	-23.143	0.014
1937.500	149.231	6.143	30.963	149.231	139.447	3.101	5.914	-21.080	0.010
1938.000	149.128	6.151	29.248	149.128	136.490	3.387	6.845	-16.639	0.004
1938.500	149.025	6.168	26.841	149.025	135.690	3.477	7.515	-10.781	-0.001
1939.000	148.921	6.170	25.466	148.921	136.324	3.407	7.811	-8.261	-0.003
1939.500	148.817	6.167	25.293	148.817	137.037	3.270	7.768	-10.616	-0.003
1940.000	148.714	6.171	25.914	148.714	137.361	3.105	7.317	-12.500	-0.001
1940.500	148.610	6.174	27.336	148.610	138.485	3.013	6.645	-7.481	0.003
1941.000	148.506	6.179	29.084	148.506	141.116	3.122	6.403	1.626	0.004

1941.500	148.402	6.190	30.647	148.402	144.139	3.359	6.632	7.262	0.002
1942.000	148.297	6.202	31.812	148.297	145.613	3.495	6.703	8.732	0.002
1942.500	148.192	6.216	31.810	148.192	145.363	3.435	6.336	10.610	0.006
1943.000	148.087	6.222	31.217	148.087	144.685	3.271	5.888	11.062	0.010
1943.500	147.981	6.208	30.961	147.981	143.710	3.151	5.852	8.337	0.011
1944.000	147.876	6.180	31.392	147.876	143.609	3.131	6.219	5.685	0.008
1944.500	147.772	6.163	32.813	147.772	146.267	3.124	6.495	5.482	0.005
1945.000	147.669	6.169	34.836	147.669	150.353	3.092	6.522	6.075	0.003
1945.500	147.565	6.186	34.718	147.565	151.683	3.178	6.762	3.069	-0.000
1946.000	147.460	6.185	32.767	147.460	149.307	3.426	7.443	-3.419	-0.004
1946.500	147.356	6.170	31.491	147.356	146.248	3.647	8.150	-5.721	-0.007
1947.000	147.252	6.171	30.649	147.252	143.352	3.653	8.266	-3.365	-0.007
1947.500	147.148	6.186	29.584	147.148	140.237	3.515	7.887	-6.542	-0.005
1948.000	147.044	6.191	29.451	147.044	137.982	3.404	7.590	-13.314	-0.003
1948.500	146.940	6.179	30.141	146.940	136.998	3.354	7.499	-14.541	-0.001
1949.000	146.836	6.160	30.253	146.836	135.998	3.286	7.315	-12.416	0.005
1949.500	146.732	6.140	29.806	146.732	135.098	3.164	7.059	-12.431	0.011
1950.000	146.630	6.133	29.138	146.630	134.902	3.094	6.742	-10.181	0.017
1950.500	146.527	6.138	28.630	146.527	136.658	3.133	6.306	-4.001	0.022
1951.000	146.424	6.137	29.031	146.424	140.116	3.189	5.851	2.153	0.024
1951.500	146.321	6.137	29.949	146.321	143.641	3.192	5.420	6.064	0.025
1952.000	146.219	6.139	30.438	146.219	147.718	3.206	5.049	7.542	0.025
1952.500	146.116	6.139	31.153	146.116	150.858	3.270	4.975	9.045	0.023
1953.000	146.013	6.134	31.825	146.013	149.349	3.320	5.273	12.536	0.020
1953.500	145.911	6.130	30.075	145.911	143.209	3.315	5.731	14.191	0.018
1954.000	145.808	6.134	27.457	145.808	136.460	3.308	6.180	11.936	0.017
1954.500	145.705	6.151	26.621	145.705	134.036	3.359	6.526	10.626	0.015
1955.000	145.602	6.180	27.503	145.602	137.553	3.479	6.765	10.710	0.012
1955.500	145.498	6.204	28.600	145.498	143.127	3.634	7.134	3.784	0.007
1956.000	145.393	6.205	29.608	145.393	146.035	3.726	7.627	-0.743	0.000
1956.500	145.288	6.190	31.085	145.288	146.870	3.631	7.914	8.595	-0.002
1957.000	145.183	6.186	31.860	145.183	147.155	3.335	7.922	21.023	-0.000
1957.500	145.079	6.197	30.699	145.079	145.857	3.029	7.404	19.599	0.005
1958.000	144.974	6.203	29.048	144.974	141.621	2.937	6.395	7.241	0.011
1958.500	144.869	6.194	28.289	144.869	136.927	3.087	5.478	-4.258	0.015
1959.000	144.765	6.187	28.224	144.765	136.916	3.337	5.077	-12.053	0.017
1959.500	144.660	6.201	28.375	144.660	142.580	3.558	5.209	-13.633	0.016
1960.000	144.555	6.220	29.809	144.555	147.870	3.658	5.948	-11.223	0.015
1960.500	144.450	6.223	32.468	144.450	148.709	3.619	6.951	-6.848	0.012
1961.000	144.344	6.215	33.631	144.344	147.796	3.522	7.454	-0.594	0.010
1961.500	144.239	6.209	32.531	144.239	147.350	3.401	7.343	6.801	0.007
1962.000	144.134	6.204	31.375	144.134	145.955	3.248	7.007	11.160	0.005
1962.500	144.029	6.201	30.220	144.029	143.430	3.142	6.622	7.592	0.004
1963.000	143.924	6.208	28.799	143.924	141.043	3.098	6.297	-2.847	0.006
1963.500	143.819	6.213	28.461	143.819	139.776	3.014	6.314	-14.668	0.008
1964.000	143.714	6.202	29.372	143.714	140.070	2.925	6.533	-18.386	0.008
1964.500	143.609	6.193	29.953	143.609	140.992	2.963	6.533	-12.400	0.007
1965.000	143.504	6.196	29.607	143.504	143.176	3.120	6.407	-5.743	0.006
1965.500	143.399	6.197	29.653	143.399	147.883	3.230	6.475	-6.537	0.004
1966.000	143.295	6.194	30.365	143.295	151.648	3.199	6.460	-11.820	0.002
1966.500	143.190	6.200	30.896	143.190	151.256	3.167	6.133	-14.493	0.005
1967.000	143.085	6.216	31.262	143.085	149.597	3.275	6.066	-15.831	0.007
1967.500	142.980	6.218	31.806	142.980	150.358	3.414	6.602	-18.498	0.005
1968.000	142.874	6.203	32.501	142.874	153.560	3.416	7.112	-21.488	0.004

1968.500	142.769	6.200	33.157	142.769	157.180	3.355	7.018	-22.632	0.004
1969.000	142.665	6.215	33.133	142.665	157.649	3.413	6.708	-21.477	0.004
1969.500	142.559	6.218	32.433	142.559	154.744	3.635	6.819	-20.372	0.001
1970.000	142.454	6.197	32.445	142.454	152.128	3.886	7.232	-24.795	-0.003
1970.500	142.349	6.176	33.802	142.349	150.229	3.925	7.577	-34.235	-0.006
1971.000	142.245	6.176	35.036	142.245	148.667	3.632	7.573	-38.560	-0.006
1971.500	142.141	6.189	34.747	142.141	149.128	3.282	7.180	-35.345	-0.004
1972.000	142.037	6.200	34.202	142.037	150.956	3.255	6.822	-34.197	-0.002
1972.500	141.932	6.206	34.487	141.932	152.762	3.532	6.853	-36.743	-0.003
1973.000	141.827	6.216	33.970	141.827	153.935	3.749	6.895	-37.344	-0.002
1973.500	141.721	6.227	32.293	141.721	153.952	3.739	6.550	-35.941	0.002
1974.000	141.615	6.226	31.577	141.615	152.408	3.698	6.148	-37.455	0.007
1974.500	141.510	6.213	32.626	141.510	151.195	3.731	6.242	-35.060	0.008
1975.000	141.405	6.198	34.544	141.405	151.157	3.731	6.703	-26.845	0.005
1975.500	141.300	6.190	36.328	141.300	150.292	3.656	7.007	-25.406	0.001
1976.000	141.195	6.195	36.761	141.195	148.695	3.605	6.853	-32.817	-0.001
1976.500	141.091	6.204	35.973	141.091	149.073	3.609	6.447	-37.155	-0.001
1977.000	140.986	6.203	35.574	140.986	152.846	3.647	6.084	-35.574	-0.000
1977.500	140.881	6.204	34.782	140.881	157.146	3.752	6.088	-34.003	-0.002
1978.000	140.776	6.216	33.563	140.776	158.609	3.798	6.735	-35.584	-0.005
1978.500	140.670	6.227	32.487	140.670	157.558	3.617	7.583	-37.057	-0.009
1979.000	140.565	6.227	31.615	140.565	156.914	3.343	7.794	-35.160	-0.009
1979.500	140.459	6.225	30.987	140.459	155.439	3.216	7.274	-31.594	-0.005
1980.000	140.353	6.225	30.996	140.353	152.806	3.242	6.693	-29.019	-0.002
1980.500	140.247	6.224	32.059	140.247	152.203	3.272	6.623	-29.526	-0.001
1981.000	140.142	6.222	33.471	140.142	152.231	3.237	7.003	-33.941	-0.000
1981.500	140.036	6.221	33.349	140.036	148.059	3.230	7.314	-40.595	0.001
1982.000	139.931	6.215	30.940	139.931	140.505	3.340	7.258	-45.827	0.005
1982.500	139.826	6.197	28.332	139.826	133.883	3.470	7.125	-46.193	0.008
1983.000	139.721	6.186	26.602	139.721	129.890	3.453	7.235	-43.071	0.007
1983.500	139.617	6.192	25.675	139.617	128.341	3.347	7.571	-40.110	0.003
1984.000	139.512	6.199	25.444	139.512	129.894	3.344	7.805	-36.064	-0.000
1984.500	139.407	6.189	25.856	139.407	134.407	3.515	7.844	-27.552	-0.002
1985.000	139.303	6.184	26.803	139.303	138.760	3.731	8.076	-15.439	-0.006
1985.500	139.199	6.197	27.792	139.199	141.067	3.786	8.574	-1.796	-0.010
1986.000	139.094	6.213	28.699	139.094	142.613	3.608	8.725	10.899	-0.011
1986.500	138.988	6.216	29.402	138.988	144.259	3.438	8.087	19.856	-0.008
1987.000	138.883	6.211	29.748	138.883	146.684	3.484	7.234	23.230	-0.003
1987.500	138.778	6.202	30.196	138.778	149.221	3.594	6.909	20.885	-0.001
1988.000	138.673	6.195	31.069	138.673	150.140	3.604	6.909	13.468	-0.001
1988.500	138.568	6.201	31.808	138.568	150.414	3.657	6.805	6.166	-0.001
1989.000	138.463	6.213	31.516	138.463	152.351	3.854	6.908	-0.026	-0.001
1989.500	138.358	6.215	30.731	138.358	153.232	4.018	7.354	-9.502	-0.003
1990.000	138.253	6.206	30.347	138.253	149.399	3.971	7.761	-18.850	-0.005
1990.500	138.148	6.203	30.828	138.148	144.326	3.751	7.915	-20.106	-0.006
1991.000	138.043	6.215	31.522	138.043	144.289	3.482	7.763	-17.398	-0.006
1991.500	137.937	6.228	31.444	137.937	147.802	3.247	7.246	-18.903	-0.004
1992.000	137.832	6.222	30.491	137.832	147.551	3.144	6.603	-22.010	-0.001
1992.500	137.726	6.201	29.271	137.726	145.169	3.239	6.144	-20.503	0.001
1993.000	137.622	6.188	28.375	137.622	146.433	3.389	5.914	-17.078	0.001
1993.500	137.517	6.194	28.419	137.517	148.569	3.402	5.843	-18.254	0.001
1994.000	137.412	6.202	29.466	137.412	146.819	3.339	5.958	-25.127	0.000
1994.500	137.307	6.202	30.638	137.307	143.804	3.381	6.261	-32.240	-0.001
1995.000	137.203	6.197	31.459	137.203	142.686	3.560	6.562	-34.425	-0.002

1995.500	137.098	6.191	31.651	137.098	143.247	3.737	6.651	-30.828	-0.002
1996.000	136.993	6.190	31.190	136.993	144.695	3.784	6.513	-24.103	-0.002
1996.500	136.889	6.198	30.719	136.889	147.016	3.768	6.350	-21.496	-0.001
1997.000	136.784	6.213	30.627	136.784	148.392	3.774	6.441	-25.290	-0.000
1997.500	136.679	6.223	30.656	136.679	148.590	3.734	6.853	-32.309	-0.001
1998.000	136.573	6.220	30.881	136.573	149.147	3.600	7.178	-37.587	-0.002
1998.500	136.468	6.214	31.416	136.468	149.880	3.474	7.053	-39.206	-0.001
1999.000	136.362	6.213	32.033	136.362	148.682	3.475	6.671	-36.147	0.002
1999.500	136.257	6.208	31.843	136.257	146.697	3.575	6.535	-31.032	0.004
2000.000	136.152	6.202	30.715	136.152	146.209	3.608	6.814	-25.196	0.002
2000.500	136.047	6.199	29.997	136.047	147.548	3.512	7.161	-20.859	-0.001
2001.000	135.942	6.194	30.722	135.942	148.705	3.418	7.396	-21.552	-0.004
2001.500	135.838	6.194	31.791	135.838	147.760	3.428	7.587	-27.122	-0.006
2002.000	135.733	6.216	32.118	135.733	145.059	3.465	7.562	-30.516	-0.006
2002.500	135.627	6.243	32.100	135.627	143.177	3.457	7.229	-27.891	-0.003
2003.000	135.521	6.245	31.925	135.521	143.383	3.488	6.887	-19.303	0.000
2003.500	135.415	6.233	31.051	135.415	146.116	3.664	6.844	-10.633	0.001
2004.000	135.309	6.233	29.753	135.309	150.121	3.891	7.209	-8.719	-0.002
2004.500	135.203	6.235	28.856	135.203	151.879	3.978	7.786	-13.054	-0.005
2005.000	135.097	6.221	29.079	135.097	149.568	3.887	8.217	-17.824	-0.007
2005.500	134.992	6.199	29.358	134.992	145.197	3.726	8.215	-21.211	-0.006
2006.000	134.887	6.191	28.972	134.887	141.600	3.597	7.834	-20.821	-0.004
2006.500	134.782	6.194	29.009	134.782	140.523	3.525	7.501	-19.755	-0.003
2007.000	134.678	6.197	29.438	134.678	141.222	3.524	7.472	-23.045	-0.005
2007.500	134.573	6.198	29.033	134.573	142.184	3.605	7.592	-31.813	-0.007
2008.000	134.468	6.193	28.820	134.468	143.453	3.667	7.682	-35.704	-0.007
2008.500	134.364	6.187	29.624	134.364	144.218	3.618	7.681	-30.243	-0.006
2009.000	134.259	6.198	30.052	134.259	143.320	3.558	7.493	-24.111	-0.003
2009.500	134.154	6.222	29.166	134.154	141.264	3.573	7.290	-23.695	-0.001
2010.000	134.049	6.225	28.433	134.049	139.486	3.603	7.306	-26.157	-0.000
2010.500	133.943	6.207	29.075	133.943	140.435	3.583	7.425	-30.023	-0.001
2011.000	133.838	6.198	30.723	133.838	144.624	3.513	7.258	-32.644	-0.002
2011.500	133.733	6.205	31.136	133.733	148.238	3.477	6.533	-29.740	-0.000
2012.000	133.628	6.205	30.330	133.628	148.611	3.605	5.680	-25.748	0.004
2012.500	133.523	6.195	30.084	133.523	148.458	3.785	5.833	-23.664	0.002
2013.000	133.419	6.190	30.255	133.419	148.392	3.828	6.720	-22.858	-0.002
2013.500	133.314	6.197	30.111	133.314	147.019	3.783	7.124	-23.140	-0.004
2014.000	133.209	6.207	30.488	133.209	145.134	3.755	6.851	-23.256	-0.003
2014.500	133.104	6.202	31.333	133.104	146.246	3.721	6.678	-23.622	-0.002
2015.000	133.000	6.192	31.397	133.000	150.979	3.673	7.023	-29.775	-0.003
2015.500	132.895	6.198	30.664	132.895	154.550	3.664	7.504	-37.694	-0.004
2016.000	132.790	6.211	29.731	132.790	151.621	3.662	7.733	-40.554	-0.001
2016.500	132.685	6.217	28.410	132.685	143.659	3.596	7.769	-39.538	0.004
2017.000	132.579	6.217	26.527	132.579	136.187	3.500	7.858	-36.167	0.009
2017.500	132.474	6.213	24.908	132.474	132.341	3.463	8.067	-31.938	0.011
2018.000	132.369	6.210	23.981	132.369	129.620	3.465	8.557	-30.023	0.008
2018.500	132.264	6.209	23.642	132.264	124.998	3.399	9.320	-26.205	0.003
2019.000	132.159	6.214	23.281	132.159	121.323	3.241	9.839	-19.045	-0.002
2019.500	132.053	6.213	22.904	132.053	122.858	3.116	9.846	-15.867	-0.003
2020.000	131.948	6.201	23.083	131.948	126.711	3.149	9.646	-19.040	-0.004
2020.500	131.843	6.193	23.751	131.843	127.871	3.283	9.504	-17.990	-0.005
2021.000	131.739	6.200	24.075	131.739	126.841	3.353	9.297	-10.725	-0.005
2021.500	131.634	6.205	24.412	131.634	126.080	3.349	8.919	-4.383	-0.004
2022.000	131.529	6.201	25.388	131.529	126.499	3.354	8.605	0.110	-0.003

2022.500	131.424	6.190	26.204	131.424	127.646	3.362	8.577	6.533	-0.004
2023.000	131.320	6.175	26.103	131.320	128.984	3.335	8.692	11.058	-0.004
2023.500	131.216	6.173	25.800	131.216	131.186	3.269	8.581	12.927	-0.002
2024.000	131.112	6.193	26.012	131.112	133.077	3.172	7.996	15.958	0.003
2024.500	131.007	6.213	26.053	131.007	132.151	3.088	7.096	17.703	0.009
2025.000	130.902	6.222	25.468	130.902	130.489	3.084	6.407	17.408	0.012
2025.500	130.796	6.216	25.349	130.796	131.244	3.101	6.132	17.328	0.013
2026.000	130.691	6.200	25.638	130.691	132.197	3.044	5.976	17.015	0.012
2026.500	130.586	6.191	25.317	130.586	130.660	2.960	5.877	16.054	0.012
2027.000	130.481	6.208	25.133	130.481	129.009	2.933	6.169	14.590	0.010
2027.500	130.376	6.234	26.140	130.376	131.022	2.983	6.699	10.017	0.008
2028.000	130.270	6.250	27.425	130.270	136.685	3.121	7.021	3.283	0.007
2028.500	130.163	6.257	27.757	130.163	141.055	3.277	7.369	2.199	0.004
2029.000	130.057	6.266	27.083	130.057	138.585	3.294	8.042	8.202	-0.001
2029.500	129.949	6.273	26.022	129.949	131.949	3.145	8.667	13.889	-0.006
2030.000	129.842	6.267	25.199	129.842	129.105	3.011	8.924	14.205	-0.007
2030.500	129.735	6.257	24.795	129.735	130.701	3.084	8.842	14.814	-0.007
2031.000	129.628	6.255	24.848	129.628	132.649	3.313	8.677	17.068	-0.005
2031.500	129.522	6.262	25.278	129.522	134.109	3.426	8.417	12.163	-0.004
2032.000	129.415	6.260	25.897	129.415	136.263	3.349	7.854	2.647	-0.001
2032.500	129.308	6.249	26.878	129.308	138.145	3.321	7.165	0.784	0.003
2033.000	129.201	6.242	27.896	129.201	137.553	3.423	7.071	7.033	0.003
2033.500	129.095	6.238	28.254	129.095	133.804	3.518	7.550	12.730	-0.000
2034.000	128.989	6.229	27.639	128.989	131.354	3.585	7.895	17.654	-0.002
2034.500	128.883	6.225	26.771	128.883	134.059	3.675	7.905	21.487	-0.001
2035.000	128.778	6.233	26.577	128.778	138.253	3.708	7.708	23.957	0.002
2035.500	128.672	6.246	27.315	128.672	139.772	3.609	7.512	23.589	0.004
2036.000	128.565	6.257	28.430	128.565	138.273	3.482	7.366	22.460	0.005
2036.500	128.458	6.256	29.222	128.458	136.732	3.447	7.248	24.892	0.005
2037.000	128.352	6.241	29.749	128.352	137.527	3.536	7.104	26.769	0.005
2037.500	128.246	6.225	29.921	128.246	140.318	3.695	7.003	24.911	0.003
2038.000	128.140	6.216	29.517	128.140	141.852	3.739	7.210	22.306	-0.000
2038.500	128.035	6.210	28.963	128.035	142.699	3.539	7.541	22.815	-0.004
2039.000	127.930	6.207	29.544	127.930	144.727	3.274	7.537	20.700	-0.005
2039.500	127.824	6.209	31.522	127.824	145.828	3.195	7.115	14.461	-0.003
2040.000	127.719	6.215	32.991	127.719	145.601	3.231	6.823	6.872	-0.001
2040.500	127.614	6.214	32.941	127.614	146.462	3.189	6.828	-1.881	-0.001
2041.000	127.509	6.212	32.231	127.509	148.296	3.135	6.877	-5.092	-0.003
2041.500	127.403	6.210	31.534	127.403	149.769	3.158	7.012	-0.360	-0.005
2042.000	127.298	6.202	30.209	127.298	151.703	3.171	7.240	-0.047	-0.007
2042.500	127.194	6.192	28.351	127.194	152.895	3.164	7.212	-8.512	-0.005
2043.000	127.089	6.200	27.422	127.089	151.385	3.256	6.849	-15.667	0.001
2043.500	126.984	6.217	28.115	126.984	148.550	3.469	6.435	-15.018	0.008
2044.000	126.879	6.218	29.418	126.879	147.611	3.650	6.503	-8.595	0.010
2044.500	126.773	6.208	29.525	126.773	149.455	3.671	6.966	-3.357	0.006
2045.000	126.668	6.224	28.618	126.668	150.073	3.551	7.419	-2.608	-0.000
2045.500	126.562	6.293	28.101	126.562	147.136	3.358	7.370	-3.903	-0.003
2046.000	126.453	6.397	28.277	126.453	144.108	3.179	6.905	-3.224	-0.002
2046.500	126.341	6.504	28.927	126.341	143.684	3.152	6.534	-4.452	0.000
2047.000	126.224	6.598	30.281	126.224	143.259	3.274	6.788	-4.872	0.002
2047.500	126.105	6.668	31.493	126.105	141.037	3.424	7.333	1.163	0.002
2048.000	125.983	6.703	30.939	125.983	138.094	3.555	7.483	15.478	0.006
2048.500	125.861	6.717	29.298	125.861	136.679	3.639	7.587	28.123	0.011
2049.000	125.737	6.724	28.095	125.737	138.046	3.625	7.990	27.856	0.014

2049.500	125.614	6.714	27.643	125.614	141.603	3.538	8.076	20.589	0.016
2050.000	125.491	6.681	28.044	125.491	144.496	3.452	7.551	15.019	0.016
2050.500	125.370	6.644	28.787	125.370	144.719	3.431	6.961	10.043	0.015
2051.000	125.250	6.626	29.589	125.250	143.059	3.501	6.658	6.603	0.016
2051.500	125.130	6.636	30.411	125.130	143.017	3.578	6.675	4.895	0.023
2052.000	125.010	6.647	31.015	125.010	146.208	3.494	6.946	-2.158	0.033
2052.500	124.890	6.599	31.549	124.890	149.260	3.214	7.008	-10.452	0.039
2053.000	124.772	6.462	32.576	124.772	148.526	2.964	6.547	-5.706	0.041
2053.500	124.660	6.295	32.884	124.660	146.865	2.982	6.103	9.991	0.037
2054.000	124.553	6.186	31.583	124.553	147.281	3.216	6.313	18.759	0.027
2054.500	124.449	6.152	30.267	124.449	147.576	3.414	6.843	16.158	0.017
2055.000	124.346	6.153	29.860	124.346	146.744	3.531	7.086	9.158	0.011
2055.500	124.242	6.146	30.320	124.242	147.390	3.706	7.073	-1.753	0.007
2056.000	124.140	6.128	31.001	124.140	149.209	3.898	7.020	-12.386	0.003
2056.500	124.037	6.129	31.078	124.037	150.248	3.964	7.001	-18.292	-0.000
2057.000	123.935	6.133	31.014	123.935	152.019	3.932	7.088	-15.263	-0.003
2057.500	123.832	6.117	30.994	123.832	155.091	3.932	7.219	-10.157	-0.004
2058.000	123.730	6.106	30.387	123.730	156.902	3.980	7.120	-11.852	-0.002
2058.500	123.629	6.116	30.123	123.629	156.126	3.967	6.798	-16.636	0.001
2059.000	123.526	6.125	30.905	123.526	155.020	3.900	6.445	-12.628	0.003
2059.500	123.424	6.116	31.679	123.424	154.897	3.885	6.447	-5.126	0.003
2060.000	123.322	6.101	31.796	123.322	153.978	3.848	6.774	-4.294	0.000
2060.500	123.221	6.099	31.199	123.221	150.908	3.700	6.884	-8.022	0.000
2061.000	123.119	6.103	29.835	123.119	146.554	3.564	6.613	-9.944	0.003
2061.500	123.018	6.096	28.842	123.018	144.133	3.467	6.504	-13.179	0.006
2062.000	122.917	6.086	29.661	122.917	145.145	3.376	6.770	-20.210	0.004
2062.500	122.816	6.086	32.137	122.816	148.486	3.415	7.055	-23.229	0.000
2063.000	122.715	6.099	33.761	122.715	152.905	3.624	7.136	-18.113	-0.003
2063.500	122.613	6.112	33.396	122.613	157.195	3.795	7.157	-11.266	-0.005
2064.000	122.511	6.112	33.213	122.511	157.596	3.799	7.045	-8.423	-0.006
2064.500	122.409	6.101	34.232	122.409	154.946	3.786	6.789	-5.281	-0.004
2065.000	122.308	6.089	35.188	122.308	153.772	3.848	6.614	-1.890	-0.002
2065.500	122.207	6.093	34.609	122.207	153.646	3.789	6.601	-2.658	-0.001
2066.000	122.105	6.115	33.489	122.105	153.348	3.530	6.498	-7.283	-0.001
2066.500	122.003	6.125	33.566	122.003	153.949	3.376	6.109	-10.381	0.000
2067.000	121.901	6.115	34.088	121.901	154.257	3.583	5.659	-9.799	0.001
2067.500	121.799	6.110	33.354	121.799	154.087	3.941	5.570	-8.497	0.001
2068.000	121.697	6.111	32.135	121.697	154.695	4.014	5.628	-8.531	-0.000
2068.500	121.595	6.100	31.568	121.595	155.169	3.722	5.428	-8.019	0.002
2069.000	121.494	6.086	31.304	121.494	155.723	3.357	5.359	-6.752	0.005
2069.500	121.393	6.080	30.854	121.393	157.286	3.156	5.921	-10.051	0.004
2070.000	121.292	6.080	30.486	121.292	157.635	3.175	6.612	-18.563	0.002
2070.500	121.192	6.086	30.737	121.192	157.439	3.374	6.853	-25.099	0.001
2071.000	121.090	6.086	31.926	121.090	158.026	3.579	6.832	-25.505	0.000
2071.500	120.989	6.086	33.215	120.989	157.770	3.627	6.683	-24.609	0.000
2072.000	120.888	6.097	32.900	120.888	156.483	3.625	6.102	-27.074	0.004
2072.500	120.787	6.107	31.605	120.787	155.940	3.725	5.436	-27.350	0.008
2073.000	120.685	6.098	31.827	120.685	156.700	3.854	5.629	-21.489	0.007
2073.500	120.584	6.088	33.353	120.584	156.860	3.903	6.707	-16.285	0.001
2074.000	120.483	6.092	33.946	120.483	154.684	3.888	7.583	-17.364	-0.003
2074.500	120.382	6.096	33.293	120.382	152.577	3.821	7.710	-17.601	-0.004
2075.000	120.280	6.095	32.568	120.280	156.211	3.776	7.293	-11.232	-0.002
2075.500	120.179	6.096	31.650	120.179	166.277	3.806	7.056	-4.004	0.002
2076.000	120.078	6.099	30.090	120.078	177.098	3.833	7.655	-3.632	0.003

2076.500	119.976	6.095	29.020	119.976	180.069	3.758	8.628	-7.184	0.003
2077.000	119.875	6.083	28.863	119.875	170.693	3.550	8.864	-9.061	0.005
2077.500	119.774	6.088	28.802	119.774	154.863	3.296	8.153	-11.151	0.010
2078.000	119.673	6.116	28.718	119.673	142.238	3.160	7.379	-17.174	0.013
2078.500	119.571	6.130	29.173	119.571	136.115	3.185	7.189	-21.246	0.012
2079.000	119.468	6.122	29.154	119.468	134.671	3.285	7.398	-18.716	0.009
2079.500	119.366	6.118	27.926	119.366	135.389	3.357	7.810	-11.303	0.005
2080.000	119.264	6.120	26.998	119.264	136.334	3.356	8.460	-4.884	0.001
2080.500	119.162	6.119	27.477	119.162	136.486	3.374	9.000	-0.252	-0.001
2081.000	119.060	6.123	28.485	119.060	136.661	3.509	9.233	4.267	-0.001
2081.500	118.957	6.132	28.607	118.957	136.825	3.602	9.324	4.123	0.000
2082.000	118.855	6.130	28.101	118.855	137.003	3.421	9.227	-1.973	0.002
2082.500	118.752	6.117	27.878	118.752	137.295	3.112	8.762	-7.420	0.004
2083.000	118.650	6.108	27.674	118.650	137.155	2.980	8.230	-8.438	0.006
2083.500	118.549	6.110	27.391	118.549	135.940	3.040	8.039	-8.519	0.005
2084.000	118.447	6.116	27.286	118.447	135.593	3.104	7.958	-8.624	0.005
2084.500	118.345	6.122	27.173	118.345	136.526	3.088	7.609	-8.901	0.007
2085.000	118.243	6.119	27.002	118.243	137.203	3.093	7.173	-11.369	0.010
2085.500	118.140	6.110	27.216	118.140	137.990	3.228	7.186	-16.262	0.009
2086.000	118.039	6.106	27.730	118.039	138.640	3.475	7.810	-19.610	0.003
2086.500	117.937	6.116	27.872	117.937	138.234	3.711	8.482	-20.062	-0.002
2087.000	117.835	6.125	27.973	117.835	137.041	3.804	8.647	-20.926	-0.003
2087.500	117.733	6.130	28.905	117.733	136.007	3.741	8.449	-22.556	-0.001
2088.000	117.630	6.131	30.070	117.630	135.147	3.616	8.395	-21.030	0.001
2088.500	117.528	6.122	30.174	117.528	134.477	3.474	8.299	-16.796	0.003
2089.000	117.426	6.103	29.554	117.426	133.155	3.316	7.511	-12.113	0.009
2089.500	117.324	6.097	28.560	117.324	133.307	3.138	6.328	-11.776	0.015
2090.000	117.223	6.118	27.317	117.223	136.322	3.019	5.802	-15.359	0.016
2090.500	117.120	6.144	27.052	117.120	139.249	3.072	6.346	-16.436	0.013
2091.000	117.017	6.149	27.914	117.017	139.165	3.247	7.519	-11.832	0.006
2091.500	116.914	6.148	27.874	116.914	138.034	3.366	8.783	-4.735	-0.000
2092.000	116.811	6.157	26.670	116.811	137.210	3.412	9.716	2.917	-0.004
2092.500	116.708	6.158	25.958	116.708	136.440	3.500	10.182	9.548	-0.006
2093.000	116.604	6.140	26.651	116.604	135.855	3.639	9.972	10.999	-0.004
2093.500	116.502	6.122	27.907	116.502	136.154	3.720	9.284	4.460	-0.001
2094.000	116.400	6.115	28.331	116.400	137.315	3.635	8.697	-8.185	0.003
2094.500	116.298	6.116	27.859	116.298	138.559	3.420	8.638	-19.922	0.004
2095.000	116.196	6.111	27.129	116.196	139.400	3.221	8.907	-27.455	0.004
2095.500	116.094	6.110	26.393	116.094	140.317	3.137	9.096	-30.906	0.005
2096.000	115.992	6.127	25.967	115.992	141.651	3.161	8.962	-29.759	0.007
2096.500	115.889	6.154	26.369	115.889	143.015	3.210	8.630	-27.070	0.009
2097.000	115.786	6.159	27.481	115.786	142.049	3.241	8.487	-28.720	0.010
2097.500	115.683	6.138	28.889	115.683	139.122	3.305	8.620	-32.059	0.010
2098.000	115.580	6.114	29.441	115.580	137.998	3.402	8.708	-32.996	0.009
2098.500	115.478	6.108	28.954	115.478	139.834	3.398	8.415	-34.338	0.010
2099.000	115.376	6.120	28.861	115.376	140.908	3.287	7.869	-37.643	0.013
2099.500	115.274	6.135	30.209	115.274	139.903	3.247	7.847	-38.762	0.013
2100.000	115.171	6.148	31.870	115.171	138.922	3.279	8.688	-34.665	0.008
2100.500	115.068	6.144	32.308	115.068	139.282	3.265	9.471	-28.829	0.001
2101.000	114.965	6.123	31.430	114.965	139.910	3.268	9.460	-26.027	-0.001
2101.500	114.863	6.103	29.881	114.863	139.247	3.349	9.295	-25.321	-0.001
2102.000	114.762	6.102	28.414	114.762	138.259	3.305	9.520	-25.933	-0.000
2102.500	114.660	6.101	27.627	114.660	138.981	3.059	9.652	-30.712	0.002
2103.000	114.559	6.095	27.591	114.559	140.661	2.897	9.344	-35.514	0.006

2103.500	114.458	6.087	27.741	114.458	142.192	2.948	9.043	-34.434	0.009
2104.000	114.357	6.084	27.919	114.357	144.397	2.981	8.986	-32.622	0.009
2104.500	114.256	6.090	27.713	114.256	146.016	2.899	8.916	-34.395	0.009
2105.000	114.154	6.105	27.093	114.154	145.919	2.876	8.779	-33.896	0.010
2105.500	114.053	6.117	26.678	114.053	145.901	2.931	8.645	-28.240	0.012
2106.000	113.951	6.123	26.574	113.951	146.650	2.942	8.375	-24.156	0.015
2106.500	113.848	6.122	25.697	113.848	144.522	2.878	7.985	-25.104	0.018
2107.000	113.746	6.108	24.387	113.746	138.462	2.801	7.524	-26.961	0.020
2107.500	113.645	6.099	24.124	113.645	132.606	2.781	7.199	-28.956	0.020
2108.000	113.543	6.101	25.077	113.543	131.066	2.854	7.515	-32.263	0.017
2108.500	113.442	6.105	25.687	113.442	132.375	2.934	8.323	-34.405	0.012
2109.000	113.340	6.099	25.114	113.340	132.763	2.916	8.757	-33.988	0.009
2109.500	113.239	6.091	24.691	113.239	132.342	2.822	8.656	-30.761	0.009
2110.000	113.138	6.087	24.789	113.138	132.349	2.745	8.751	-28.106	0.007
2110.500	113.036	6.083	24.388	113.036	132.984	2.693	9.229	-30.677	0.005
2111.000	112.936	6.071	22.880	112.936	132.131	2.659	9.226	-34.022	0.006
2111.500	112.835	6.051	21.601	112.835	125.403	2.735	7.859	-31.834	0.010
2112.000	112.736	6.028	20.404	112.736	107.314	3.107	4.796	-24.259	0.015
2112.500	112.637	6.016	17.840	112.637	78.894	3.928	0.251	-15.919	0.018
2113.000	112.538	6.020	14.661	112.538	51.228	4.879	-4.682	-8.799	0.017
2113.500	112.439	6.019	12.471	112.439	34.621	5.213	-8.295	-6.705	0.011
2114.000	112.340	6.005	11.513	112.340	28.883	5.021	-10.145	-11.741	0.004
2114.500	112.242	5.999	11.294	112.242	29.106	4.870	-10.952	-16.593	0.000
2115.000	112.144	6.007	11.256	112.144	31.391	4.831	-10.448	-12.925	-0.002
2115.500	112.045	6.024	11.162	112.045	33.523	4.796	-7.930	-4.537	-0.006
2116.000	111.946	6.037	11.242	111.946	37.782	4.799	-4.036	-3.679	-0.011
2116.500	111.847	6.052	11.830	111.847	51.761	4.691	-0.107	-5.218	-0.011
2117.000	111.747	6.084	13.242	111.747	78.729	4.229	3.244	4.475	-0.008
2117.500	111.645	6.136	16.117	111.645	106.787	3.642	6.012	17.895	-0.004
2118.000	111.542	6.197	20.440	111.542	122.469	3.317	8.107	22.420	-0.002
2118.500	111.437	6.255	23.230	111.437	125.637	3.273	9.540	24.461	-0.002
2119.000	111.330	6.291	22.871	111.330	124.131	3.251	10.489	34.661	-0.001
2119.500	111.222	6.298	22.255	111.222	122.536	3.139	10.846	47.294	0.001
2120.000	111.114	6.302	22.131	111.114	121.021	3.014	10.489	51.847	0.006
2120.500	111.005	6.318	22.293	111.005	118.555	2.921	9.960	46.203	0.010
2121.000	110.896	6.331	22.940	110.896	116.301	2.846	9.852	32.922	0.008
2121.500	110.787	6.323	23.928	110.787	116.237	2.818	9.892	14.982	0.005
2122.000	110.678	6.308	24.865	110.678	118.271	2.886	9.634	-2.764	0.005
2122.500	110.570	6.301	25.413	110.570	119.725	2.999	9.377	-15.784	0.006
2123.000	110.461	6.308	25.370	110.461	120.245	3.060	9.488	-24.680	0.005
2123.500	110.353	6.328	25.101	110.353	122.458	3.064	9.773	-33.068	0.004
2124.000	110.243	6.336	25.106	110.243	127.078	3.070	10.026	-38.820	0.004
2124.500	110.134	6.312	25.422	110.134	130.677	3.080	10.160	-36.239	0.005
2125.000	110.026	6.273	26.075	110.026	131.493	3.118	9.935	-27.557	0.009
2125.500	109.919	6.242	27.304	109.919	131.307	3.156	9.461	-22.317	0.013
2126.000	109.813	6.212	28.972	109.813	130.658	3.105	9.026	-21.771	0.015
2126.500	109.708	6.181	29.672	109.708	130.157	3.034	8.695	-20.204	0.016
2127.000	109.604	6.165	28.168	109.604	130.698	3.092	8.566	-17.589	0.016
2127.500	109.500	6.159	25.794	109.500	131.950	3.237	8.711	-18.627	0.015
2128.000	109.397	6.141	24.043	109.397	131.797	3.335	9.034	-24.227	0.015
2128.500	109.294	6.118	23.283	109.294	130.486	3.398	9.634	-29.866	0.012
2129.000	109.192	6.107	23.261	109.192	129.323	3.419	10.523	-31.819	0.007
2129.500	109.090	6.100	23.765	109.090	127.780	3.277	11.162	-33.835	0.001
2130.000	108.989	6.087	23.981	108.989	124.808	2.996	11.097	-37.762	-0.002

2130.500	108.888	6.083	23.299	108.888	121.343	2.759	10.544	-38.158	-0.002
2131.000	108.787	6.084	22.595	108.787	117.726	2.693	9.834	-34.868	-0.001
2131.500	108.686	6.077	22.631	108.686	115.189	2.839	9.353	-31.999	0.001
2132.000	108.586	6.064	22.770	108.586	116.539	3.120	9.409	-27.776	0.002
2132.500	108.485	6.060	22.413	108.485	121.070	3.331	9.588	-20.932	0.000
2133.000	108.385	6.059	22.294	108.385	124.114	3.361	8.868	-14.973	-0.001
2133.500	108.285	6.049	23.070	108.285	122.929	3.257	7.115	-8.835	0.001
2134.000	108.186	6.037	24.199	108.186	121.129	3.051	5.837	-2.897	0.002
2134.500	108.086	6.040	24.641	108.086	123.252	2.849	6.452	-3.257	-0.002
2135.000	107.987	6.052	24.335	107.987	128.753	2.798	7.956	-9.310	-0.006
2135.500	107.887	6.055	24.363	107.887	133.101	2.944	8.743	-14.270	-0.006
2136.000	107.787	6.060	25.232	107.787	134.654	3.189	8.759	-15.691	-0.004
2136.500	107.686	6.071	26.368	107.686	135.104	3.257	8.850	-13.480	-0.004
2137.000	107.586	6.072	26.619	107.586	134.830	3.019	8.945	-8.909	-0.004
2137.500	107.485	6.059	26.420	107.485	133.696	2.778	8.481	-8.249	-0.000
2138.000	107.385	6.054	26.692	107.385	132.145	2.824	7.671	-14.664	0.008
2138.500	107.285	6.061	26.324	107.285	131.820	3.065	7.323	-23.360	0.016
2139.000	107.185	6.058	24.820	107.185	129.695	3.268	7.216	-29.123	0.021
2139.500	107.085	6.044	23.839	107.085	122.700	3.362	6.885	-32.601	0.027
2140.000	106.986	6.040	24.248	106.986	116.712	3.415	6.557	-34.517	0.028
2140.500	106.886	6.042	25.415	106.886	118.998	3.511	6.661	-35.001	0.024
2141.000	106.787	6.043	26.648	106.787	126.418	3.607	7.214	-36.750	0.014
2141.500	106.687	6.059	27.460	106.687	133.194	3.638	7.661	-39.603	0.006
2142.000	106.587	6.078	27.781	106.587	139.181	3.648	7.635	-35.781	0.002
2142.500	106.486	6.071	28.415	106.486	144.776	3.664	7.562	-23.366	0.000
2143.000	106.386	6.050	29.561	106.386	148.702	3.621	7.738	-7.736	-0.001
2143.500	106.286	6.041	31.439	106.286	149.313	3.484	7.697	1.874	-0.000
2144.000	106.186	6.049	33.479	106.186	144.961	3.262	7.680	0.615	0.004
2144.500	106.086	6.054	34.455	106.086	138.158	2.990	9.529	-9.490	0.005
2145.000	105.987	6.048	33.618	105.987	133.439	2.754	12.972	-20.367	-0.001
2145.500	105.887	6.052	31.131	105.887	129.980	2.666	14.932	-27.623	-0.002
2146.000	105.787	6.071	27.546	105.787	124.126	2.804	13.909	-32.110	0.004
2146.500	105.686	6.079	24.455	105.686	117.608	3.056	11.224	-35.224	0.013
2147.000	105.585	6.080	22.798	105.585	114.493	3.121	9.470	-34.907	0.017
2147.500	105.485	6.091	22.114	105.485	114.466	2.950	9.317	-28.188	0.016
2148.000	105.383	6.097	21.676	105.383	116.058	2.717	9.660	-19.434	0.015
2148.500	105.282	6.088	21.662	105.282	119.024	2.540	9.648	-15.516	0.014
2149.000	105.181	6.079	22.456	105.181	122.106	2.512	9.269	-14.775	0.014
2149.500	105.080	6.067	23.304	105.080	124.124	2.685	8.954	-10.060	0.011
2150.000	104.980	6.053	23.693	104.980	126.627	2.994	8.685	-1.155	0.008
2150.500	104.880	6.053	24.470	104.880	131.801	3.298	8.165	7.665	0.007
2151.000	104.780	6.066	25.341	104.780	137.151	3.487	7.726	11.139	0.006
2151.500	104.680	6.076	24.818	104.680	136.910	3.500	7.808	8.626	0.003
2152.000	104.579	6.076	23.853	104.579	131.895	3.349	8.135	1.871	0.000
2152.500	104.478	6.070	23.874	104.478	128.845	3.193	8.369	-7.902	-0.000
2153.000	104.378	6.071	24.140	104.378	128.974	3.187	8.669	-13.274	-0.000
2153.500	104.277	6.080	23.552	104.277	127.991	3.226	9.178	-7.841	0.001
2154.000	104.176	6.092	22.781	104.176	124.834	3.107	9.688	-5.553	0.003
2154.500	104.075	6.096	22.054	104.075	121.356	2.919	9.746	-13.504	0.007
2155.000	103.974	6.086	21.407	103.974	119.737	2.843	9.220	-18.353	0.013
2155.500	103.873	6.069	21.356	103.873	120.103	2.843	8.445	-13.054	0.018
2156.000	103.773	6.052	22.232	103.773	120.790	2.860	7.855	-8.978	0.021
2156.500	103.673	6.043	23.329	103.673	120.650	2.952	7.842	-8.795	0.020
2157.000	103.573	6.054	23.925	103.573	120.108	3.088	8.419	-6.639	0.016

2157.500	103.473	6.069	23.770	103.473	119.273	3.128	8.964	-1.926	0.013
2158.000	103.373	6.066	22.705	103.373	118.602	3.066	9.011	0.829	0.012
2158.500	103.272	6.053	21.577	103.272	118.326	3.033	8.867	1.593	0.013
2159.000	103.173	6.056	21.242	103.173	118.953	3.066	8.913	4.215	0.011
2159.500	103.072	6.072	21.582	103.072	120.113	3.133	8.917	6.639	0.009
2160.000	102.972	6.095	21.673	102.972	120.228	3.192	8.675	2.624	0.009
2160.500	102.870	6.115	20.971	102.870	119.594	3.211	8.488	-1.995	0.012
2161.000	102.768	6.114	20.140	102.768	120.453	3.218	8.666	4.135	0.015
2161.500	102.666	6.093	20.542	102.666	123.415	3.262	9.058	15.492	0.016
2162.000	102.565	6.077	22.382	102.565	127.452	3.328	9.339	18.204	0.015
2162.500	102.465	6.082	24.122	102.465	131.108	3.365	9.472	15.477	0.013
2163.000	102.364	6.097	24.389	102.364	131.314	3.345	9.617	15.525	0.010
2163.500	102.262	6.112	23.806	102.262	129.463	3.285	9.693	16.545	0.009
2164.000	102.160	6.117	23.514	102.160	128.716	3.262	9.419	14.195	0.009
2164.500	102.058	6.106	23.726	102.058	128.635	3.278	8.789	10.120	0.010
2165.000	101.957	6.090	23.865	101.957	128.021	3.244	8.215	7.140	0.010
2165.500	101.856	6.086	23.305	101.856	128.010	3.201	8.015	6.508	0.008
2166.000	101.755	6.083	22.712	101.755	129.188	3.216	8.226	5.495	0.004
2166.500	101.654	6.078	22.723	101.654	130.245	3.247	8.649	5.507	-0.000
2167.000	101.553	6.079	23.372	101.553	130.579	3.262	8.964	5.086	-0.001
2167.500	101.452	6.076	24.405	101.452	128.482	3.275	9.086	1.913	-0.001
2168.000	101.352	6.061	25.735	101.352	123.826	3.231	9.070	-5.263	-0.000
2168.500	101.252	6.050	26.659	101.252	119.874	3.153	8.881	-12.051	0.001
2169.000	101.152	6.050	26.419	101.152	119.822	3.125	8.469	-14.026	0.004
2169.500	101.052	6.049	25.271	101.052	122.087	3.107	7.966	-12.627	0.006
2170.000	100.952	6.051	24.247	100.952	124.421	3.025	7.588	-14.648	0.008
2170.500	100.852	6.053	23.905	100.852	126.800	2.916	7.642	-20.813	0.007
2171.000	100.752	6.056	24.069	100.752	129.740	2.848	8.106	-24.197	0.003
2171.500	100.652	6.063	24.823	100.652	131.154	2.854	8.421	-21.396	-0.000
2172.000	100.552	6.080	26.646	100.552	129.468	2.948	8.274	-17.765	-0.001
2172.500	100.451	6.098	29.505	100.451	127.331	3.113	8.184	-17.033	0.001
2173.000	100.349	6.099	33.022	100.349	127.811	3.178	9.919	-16.380	0.001
2173.500	100.248	6.081	36.913	100.248	128.847	2.973	15.987	-12.601	-0.004
2174.000	100.147	6.076	40.303	100.147	127.956	2.626	23.899	-6.502	-0.008
2174.500	100.047	6.092	39.947	100.047	126.430	2.319	27.728	-1.145	0.003
2175.000	99.945	6.102	34.797	99.945	124.724	2.232	24.603	-1.163	0.031
2175.500	99.844	6.102	29.117	99.844	124.025	2.597	16.389	-9.618	0.058
2176.000	99.742	6.101	25.148	99.742	127.272	3.305	8.603	-18.658	0.064
2176.500	99.641	6.098	23.238	99.641	129.949	3.832	6.141	-19.806	0.043
2177.000	99.539	6.100	21.593	99.539	122.672	4.145	6.517	-14.367	0.022
2177.500	99.438	6.107	18.334	99.438	107.639	4.295	6.517	-7.621	0.018
2178.000	99.336	6.099	15.360	99.336	95.548	4.114	6.268	-2.727	0.022
2178.500	99.235	6.089	14.401	99.235	90.858	3.572	6.202	0.281	0.027
2179.000	99.134	6.091	15.214	99.134	92.156	2.988	6.081	2.678	0.031
2179.500	99.032	6.086	16.471	99.032	97.162	2.681	6.053	4.884	0.035
2180.000	98.932	6.069	17.167	98.932	102.891	2.690	6.437	8.124	0.037
2180.500	98.831	6.062	17.686	98.831	107.739	2.918	6.989	15.843	0.038
2181.000	98.731	6.068	18.745	98.731	111.214	3.235	7.522	21.090	0.037
2181.500	98.630	6.075	19.939	98.630	113.414	3.484	8.082	16.255	0.031
2182.000	98.530	6.077	20.651	98.530	115.758	3.538	8.469	9.490	0.022
2182.500	98.429	6.075	21.044	98.429	117.373	3.453	8.413	8.102	0.015
2183.000	98.328	6.082	21.158	98.328	116.515	3.378	8.152	8.023	0.011
2183.500	98.227	6.097	20.764	98.227	114.587	3.335	8.169	9.253	0.007
2184.000	98.126	6.099	19.948	98.126	114.890	3.236	8.400	14.610	0.003

2184.500	98.025	6.084	19.278	98.025	116.020	3.072	8.321	20.367	0.001
2185.000	97.924	6.077	19.525	97.924	116.188	2.984	7.814	21.995	0.006
2185.500	97.823	6.091	20.500	97.823	117.683	3.076	7.345	20.170	0.013
2186.000	97.722	6.104	21.247	97.722	121.837	3.207	7.208	18.670	0.020
2186.500	97.620	6.101	21.209	97.620	124.888	3.144	7.262	18.896	0.023
2187.000	97.519	6.094	20.948	97.519	124.507	2.920	7.208	18.428	0.023
2187.500	97.417	6.101	21.145	97.417	123.183	2.751	6.929	20.966	0.019
2188.000	97.316	6.106	21.878	97.316	123.429	2.730	6.676	31.433	0.013
2188.500	97.214	6.090	22.577	97.214	123.963	2.837	6.802	42.814	0.008
2189.000	97.113	6.072	23.163	97.113	123.630	3.027	7.135	40.407	0.004
2189.500	97.013	6.069	23.625	97.013	123.393	3.242	7.219	26.884	0.004
2190.000	96.912	6.085	23.721	96.912	125.402	3.426	7.109	18.267	0.006
2190.500	96.811	6.099	23.821	96.811	128.068	3.550	7.197	21.416	0.006
2191.000	96.710	6.090	24.479	96.710	128.934	3.554	7.669	25.321	0.003
2191.500	96.609	6.069	25.243	96.609	129.425	3.418	8.098	24.061	-0.000
2192.000	96.508	6.065	24.887	96.508	132.409	3.247	7.942	22.286	0.001
2192.500	96.408	6.084	23.642	96.408	135.244	3.131	7.347	22.067	0.005
2193.000	96.307	6.103	22.832	96.307	133.371	3.054	6.953	18.410	0.008
2193.500	96.205	6.108	22.847	96.205	128.986	2.985	6.965	11.509	0.007
2194.000	96.103	6.104	23.044	96.103	127.519	2.996	7.080	10.545	0.005
2194.500	96.002	6.103	23.290	96.002	130.495	3.152	7.069	15.292	0.005
2195.000	95.900	6.098	23.509	95.900	134.349	3.354	7.007	15.045	0.005
2195.500	95.799	6.084	23.859	95.799	134.659	3.454	7.155	8.042	0.005
2196.000	95.698	6.079	24.545	95.698	132.701	3.504	7.446	3.880	0.003
2196.500	95.597	6.086	25.020	95.597	133.925	3.637	7.613	2.979	0.001
2197.000	95.496	6.084	25.040	95.496	139.285	3.829	7.662	2.685	-0.002
2197.500	95.395	6.075	25.635	95.395	143.759	3.896	7.689	2.970	-0.004
2198.000	95.295	6.076	26.523	95.295	144.312	3.750	7.499	3.349	-0.005
2198.500	95.194	6.087	26.428	95.194	142.893	3.576	7.121	2.682	-0.005
2199.000	95.093	6.107	26.024	95.093	141.139	3.531	7.058	5.039	-0.004
2199.500	94.991	6.121	25.919	94.991	138.961	3.561	7.415	8.030	-0.004
2200.000	94.889	6.121	25.684	94.889	136.836	3.616	7.616	4.777	-0.002
2200.500	94.787	6.107	25.564	94.787	137.804	3.692	7.516	-5.846	0.001
2201.000	94.685	6.088	25.836	94.685	142.460	3.710	7.698	-14.959	0.002
2201.500	94.584	6.077	25.972	94.584	146.961	3.621	8.220	-17.486	0.001
2202.000	94.483	6.081	26.252	94.483	146.604	3.465	8.314	-16.929	0.002
2202.500	94.383	6.089	27.042	94.383	143.017	3.332	7.676	-17.100	0.005
2203.000	94.281	6.091	27.405	94.281	141.214	3.306	6.974	-17.433	0.008
2203.500	94.180	6.085	26.594	94.180	142.372	3.378	6.952	-15.956	0.004
2204.000	94.079	6.071	25.728	94.079	143.788	3.489	7.329	-13.561	-0.001
2204.500	93.979	6.062	25.495	93.979	143.753	3.546	7.390	-14.416	-0.004
2205.000	93.879	6.067	25.225	93.879	142.849	3.466	7.027	-19.395	-0.003
2205.500	93.778	6.070	24.868	93.778	142.124	3.365	6.540	-21.242	-0.000
2206.000	93.678	6.076	24.998	93.678	142.163	3.395	6.376	-17.827	0.002
2206.500	93.577	6.082	25.094	93.577	141.900	3.439	6.732	-13.549	0.001
2207.000	93.476	6.069	24.632	93.476	140.908	3.334	7.016	-11.743	-0.001
2207.500	93.376	6.049	24.318	93.376	139.385	3.175	6.945	-7.962	-0.002
2208.000	93.276	6.045	24.478	93.276	138.867	3.149	6.815	-2.419	-0.002
2208.500	93.177	6.051	25.012	93.177	140.374	3.226	6.598	-0.702	-0.000
2209.000	93.077	6.062	25.593	93.077	142.509	3.247	5.976	-2.112	0.006
2209.500	92.976	6.072	25.998	92.976	143.324	3.215	5.445	-1.282	0.011
2210.000	92.876	6.068	26.210	92.876	143.193	3.259	5.594	0.878	0.011
2210.500	92.775	6.061	26.398	92.775	142.933	3.356	6.237	0.215	0.007
2211.000	92.675	6.061	25.722	92.675	142.996	3.445	6.868	0.146	0.000

2211.500	92.575	6.059	24.266	92.575	142.880	3.554	7.234	0.853	-0.003
2212.000	92.475	6.054	24.098	92.475	141.795	3.659	7.387	-0.584	-0.006
2212.500	92.375	6.048	25.683	92.375	141.030	3.633	7.382	-2.850	-0.007
2213.000	92.275	6.049	27.451	92.275	141.186	3.492	7.300	-2.697	-0.007
2213.500	92.175	6.067	28.442	92.175	142.718	3.440	7.226	1.747	-0.007
2214.000	92.075	6.088	28.951	92.075	145.347	3.528	7.331	6.330	-0.007
2214.500	91.974	6.094	28.582	91.974	146.058	3.603	7.570	5.565	-0.006
2215.000	91.873	6.093	26.848	91.873	142.742	3.595	7.617	0.416	-0.004
2215.500	91.771	6.088	24.429	91.771	135.649	3.606	7.370	-3.579	0.001
2216.000	91.670	6.083	22.423	91.670	124.170	3.675	7.020	-7.763	0.008
2216.500	91.569	6.088	21.602	91.569	114.126	3.705	6.863	-13.136	0.013
2217.000	91.468	6.095	22.045	91.468	116.852	3.628	6.993	-18.212	0.014
2217.500	91.367	6.086	24.014	91.367	135.720	3.513	7.836	-22.204	0.011
2218.000	91.266	6.065	27.563	91.266	165.235	3.415	9.844	-23.417	0.005
2218.500	91.166	6.064	31.120	91.166	190.025	3.305	12.128	-21.916	-0.001
2219.000	91.065	6.108	32.320	91.065	193.503	3.199	12.925	-17.234	-0.004
2219.500	90.963	6.187	30.869	90.963	176.761	3.175	11.728	-10.679	-0.003
2220.000	90.858	6.273	28.714	90.858	156.524	3.235	9.674	-2.810	-0.002
2220.500	90.750	6.344	27.420	90.750	142.466	3.294	8.233	2.338	-0.003
2221.000	90.640	6.391	27.321	90.640	134.220	3.368	7.723	3.351	-0.001
2221.500	90.528	6.415	27.542	90.528	129.409	3.458	7.653	0.176	0.004
2222.000	90.416	6.428	27.804	90.416	126.368	3.495	7.720	-0.955	0.011
2222.500	90.303	6.428	28.077	90.303	126.326	3.482	7.781	2.816	0.013
2223.000	90.190	6.415	28.709	90.190	130.695	3.489	7.661	7.619	0.013
2223.500	90.078	6.401	30.056	90.078	136.751	3.561	7.316	6.746	0.012
2224.000	89.967	6.392	31.163	89.967	139.462	3.702	6.904	1.905	0.014
2224.500	89.855	6.367	30.461	89.855	139.118	3.850	6.538	0.156	0.017
2225.000	89.745	6.302	28.455	89.745	138.471	3.851	6.317	1.596	0.019
2225.500	89.638	6.219	27.240	89.638	138.437	3.588	6.413	1.448	0.017
2226.000	89.533	6.162	27.579	89.533	138.289	3.140	6.679	-3.134	0.014
2226.500	89.429	6.149	28.210	89.429	138.180	2.817	6.727	-10.111	0.013
2227.000	89.326	6.161	27.739	89.326	138.888	2.814	6.580	-15.199	0.012
2227.500	89.223	6.176	27.312	89.223	141.337	2.992	6.465	-20.948	0.011
2228.000	89.118	6.185	28.098	89.118	144.432	3.115	6.411	-28.939	0.010
2228.500	89.014	6.188	29.356	89.014	145.812	3.151	6.512	-32.990	0.010
2229.000	88.910	6.185	30.446	88.910	144.849	3.196	6.816	-28.129	0.012
2229.500	88.805	6.172	31.343	88.805	143.373	3.270	7.178	-19.983	0.013
2230.000	88.702	6.157	30.777	88.702	142.378	3.352	7.509	-15.440	0.014
2230.500	88.598	6.151	28.463	88.598	140.291	3.433	7.872	-17.902	0.011
2231.000	88.495	6.150	26.618	88.495	137.098	3.516	8.367	-21.576	0.006
2231.500	88.392	6.141	27.193	88.392	135.146	3.610	8.966	-20.859	0.000
2232.000	88.289	6.121	29.680	88.289	135.300	3.712	9.411	-21.417	-0.004
2232.500	88.187	6.103	31.323	88.187	137.534	3.758	9.658	-24.916	-0.006
2233.000	88.086	6.094	30.601	88.086	141.983	3.656	9.724	-24.973	-0.005
2233.500	87.985	6.094	29.341	87.985	146.173	3.407	9.664	-24.177	-0.001
2234.000	87.883	6.102	28.823	87.883	146.427	3.128	9.285	-29.120	0.004
2234.500	87.782	6.115	28.646	87.782	143.543	2.949	8.404	-36.553	0.010
2235.000	87.680	6.131	28.645	87.680	142.955	2.974	7.356	-40.065	0.014
2235.500	87.577	6.142	29.525	87.577	144.730	3.193	7.025	-41.297	0.015
2236.000	87.474	6.144	31.072	87.474	143.709	3.475	7.499	-39.311	0.014
2236.500	87.371	6.141	31.405	87.371	140.741	3.746	7.820	-31.846	0.014
2237.000	87.268	6.136	30.127	87.268	141.079	3.960	7.648	-23.156	0.015
2237.500	87.166	6.137	29.179	87.166	143.893	3.979	7.665	-19.255	0.014
2238.000	87.063	6.147	28.862	87.063	144.127	3.730	8.247	-16.024	0.011

2238.500	86.960	6.158	28.567	86.960	141.483	3.320	8.814	-11.078	0.010
2239.000	86.856	6.161	28.473	86.856	138.573	2.939	8.662	-8.570	0.012
2239.500	86.753	6.156	28.561	86.753	136.488	2.744	7.827	-9.852	0.013
2240.000	86.649	6.142	28.188	86.649	135.780	2.771	7.074	-11.475	0.011
2240.500	86.547	6.124	27.744	86.547	137.494	2.932	6.932	-11.551	0.006
2241.000	86.445	6.114	27.632	86.445	140.325	3.180	7.215	-14.228	0.002
2241.500	86.343	6.111	27.476	86.343	141.653	3.503	7.467	-20.763	-0.000
2242.000	86.241	6.109	26.563	86.241	140.797	3.765	7.452	-22.888	0.000
2242.500	86.139	6.103	25.449	86.139	138.552	3.780	7.265	-15.081	0.003
2243.000	86.038	6.091	25.577	86.038	136.180	3.592	7.196	-4.049	0.006
2243.500	85.937	6.077	27.208	85.937	134.288	3.403	7.290	4.359	0.008
2244.000	85.836	6.078	28.849	85.836	133.948	3.283	7.381	7.984	0.009
2244.500	85.735	6.090	29.402	85.735	136.952	3.194	7.518	5.085	0.008
2245.000	85.634	6.104	29.248	85.634	141.385	3.129	7.739	1.381	0.006
2245.500	85.532	6.117	28.738	85.532	142.908	3.111	7.763	4.659	0.006
2246.000	85.430	6.127	28.176	85.430	142.380	3.181	7.450	11.225	0.007
2246.500	85.328	6.139	27.941	85.328	142.255	3.346	7.301	14.749	0.007
2247.000	85.225	6.157	28.514	85.225	142.219	3.480	7.648	8.963	0.004
2247.500	85.121	6.170	29.537	85.121	142.170	3.436	8.026	-2.962	0.001
2248.000	85.017	6.167	30.202	85.017	143.205	3.280	8.029	-11.254	0.001
2248.500	84.914	6.160	29.918	84.914	144.538	3.228	7.826	-8.394	0.004
2249.000	84.810	6.167	29.381	84.810	144.362	3.289	7.670	-1.543	0.006
2249.500	84.706	6.187	29.574	84.706	142.012	3.281	7.458	2.389	0.007
2250.000	84.602	6.205	29.927	84.602	139.863	3.179	7.084	2.738	0.008
2250.500	84.497	6.211	29.329	84.497	139.457	3.133	6.826	-0.283	0.009
2251.000	84.391	6.210	28.040	84.391	140.646	3.161	6.887	-4.416	0.011
2251.500	84.286	6.211	27.424	84.286	145.104	3.200	7.001	-5.769	0.013
2252.000	84.181	6.209	27.923	84.181	150.506	3.279	7.147	-5.301	0.015
2252.500	84.076	6.198	29.344	84.076	150.755	3.398	7.534	-9.266	0.015
2253.000	83.971	6.191	30.740	83.971	148.227	3.515	7.871	-16.304	0.013
2253.500	83.867	6.188	30.831	83.867	147.364	3.608	7.866	-21.672	0.011
2254.000	83.762	6.178	29.789	83.762	146.546	3.597	7.697	-23.515	0.009
2254.500	83.658	6.173	29.090	83.658	146.780	3.414	7.386	-25.092	0.007
2255.000	83.554	6.189	29.152	83.554	148.780	3.171	6.894	-26.275	0.008
2255.500	83.450	6.200	29.318	83.450	150.377	3.070	6.520	-23.259	0.011
2256.000	83.345	6.182	29.375	83.345	150.914	3.130	6.330	-17.603	0.013
2256.500	83.241	6.156	29.259	83.241	150.143	3.213	6.022	-14.569	0.015
2257.000	83.138	6.146	28.902	83.138	147.243	3.200	5.682	-12.420	0.015
2257.500	83.035	6.156	28.736	83.035	144.285	3.137	5.657	-9.591	0.011
2258.000	82.931	6.170	29.369	82.931	143.086	3.175	6.041	-9.012	0.004
2258.500	82.827	6.173	30.072	82.827	143.472	3.309	6.598	-14.022	-0.002
2259.000	82.724	6.177	29.657	82.724	145.142	3.376	6.863	-15.846	-0.004
2259.500	82.619	6.195	29.275	82.619	146.700	3.346	6.630	-7.246	-0.002
2260.000	82.515	6.206	30.038	82.515	146.711	3.354	6.311	6.283	0.003
2260.500	82.410	6.192	30.846	82.410	144.902	3.422	6.466	12.120	0.007
2261.000	82.305	6.174	31.280	82.305	142.970	3.440	6.918	10.629	0.008
2261.500	82.201	6.174	32.435	82.201	143.607	3.321	7.205	8.789	0.008
2262.000	82.097	6.183	32.868	82.097	146.823	3.127	7.162	6.694	0.007
2262.500	81.993	6.192	30.806	81.993	150.685	3.052	7.008	-0.415	0.007
2263.000	81.888	6.198	27.856	81.888	154.666	3.174	7.091	-9.612	0.005
2263.500	81.784	6.197	25.272	81.784	158.076	3.378	7.282	-16.883	0.003
2264.000	81.679	6.186	22.406	81.679	158.549	3.503	7.245	-24.215	0.003
2264.500	81.575	6.177	19.713	81.575	155.902	3.458	7.232	-29.525	0.004
2265.000	81.471	6.180	18.467	81.471	151.088	3.282	7.558	-24.473	0.003

2265.500	81.367	6.180	19.135	81.367	143.769	3.098	7.898	-10.814	0.003
2266.000	81.262	6.168	20.927	81.262	135.934	2.980	7.818	-0.898	0.004
2266.500	81.159	6.163	22.297	81.159	131.018	2.889	7.485	0.270	0.006
2267.000	81.055	6.173	22.669	81.055	129.952	2.818	7.317	4.334	0.007
2267.500	80.951	6.181	23.042	80.951	131.841	2.868	7.418	16.455	0.006
2268.000	80.847	6.185	23.797	80.847	134.977	3.055	7.721	25.144	0.003
2268.500	80.743	6.183	23.995	80.743	136.153	3.182	8.072	20.846	0.000
2269.000	80.638	6.178	23.427	80.638	135.050	3.091	8.063	8.995	-0.001
2269.500	80.534	6.167	23.336	80.534	133.099	2.956	7.555	1.818	0.002
2270.000	80.431	6.148	24.204	80.431	130.099	3.019	7.148	-0.216	0.006
2270.500	80.328	6.123	24.696	80.328	125.225	3.206	7.466	-5.138	0.008
2271.000	80.226	6.100	23.811	80.226	119.172	3.282	8.053	-13.995	0.009
2271.500	80.125	6.077	22.459	80.125	116.815	3.228	8.201	-22.088	0.012
2272.000	80.024	6.060	22.009	80.024	120.483	3.182	8.238	-30.303	0.011
2272.500	79.924	6.065	22.732	79.924	124.714	3.209	8.783	-36.498	0.004
2273.000	79.823	6.081	23.667	79.823	125.975	3.310	9.420	-36.110	-0.004
2273.500	79.722	6.082	23.753	79.722	127.706	3.485	9.318	-31.287	-0.007
2274.000	79.622	6.064	23.373	79.622	130.432	3.695	8.207	-25.183	-0.003
2274.500	79.522	6.055	23.542	79.522	131.141	3.847	6.697	-20.106	0.005
2275.000	79.422	6.058	24.060	79.422	130.755	3.834	6.007	-17.707	0.011
2275.500	79.321	6.061	24.234	79.321	131.106	3.614	6.407	-15.633	0.010
2276.000	79.221	6.067	23.766	79.221	133.275	3.269	6.869	-13.450	0.010
2276.500	79.121	6.076	23.044	79.121	135.533	3.012	6.917	-14.866	0.011
2277.000	79.020	6.074	22.718	79.020	134.840	3.003	7.007	-19.719	0.012
2277.500	78.920	6.058	22.933	78.920	133.087	3.152	7.432	-20.529	0.010
2278.000	78.820	6.041	23.311	78.820	133.789	3.243	7.896	-14.182	0.007
2278.500	78.720	6.041	23.437	78.720	134.927	3.223	8.122	-6.570	0.005
2279.000	78.621	6.056	23.114	78.621	134.511	3.203	8.126	-7.307	0.006
2279.500	78.520	6.066	22.809	78.520	134.228	3.202	8.091	-14.644	0.008
2280.000	78.420	6.064	23.115	78.420	135.511	3.096	8.101	-18.412	0.010
2280.500	78.320	6.061	23.598	78.320	137.307	2.869	7.988	-17.266	0.011
2281.000	78.220	6.062	23.468	78.220	138.509	2.666	7.701	-15.587	0.011
2281.500	78.119	6.072	23.516	78.119	138.958	2.601	7.366	-12.988	0.012
2282.000	78.019	6.083	24.456	78.019	138.796	2.716	7.163	-9.315	0.012
2282.500	77.918	6.085	24.827	77.918	136.155	2.955	7.367	-12.048	0.011
2283.000	77.817	6.082	23.707	77.817	131.421	3.114	8.114	-18.986	0.006
2283.500	77.716	6.073	23.013	77.716	128.455	3.096	8.888	-22.448	-0.000
2284.000	77.616	6.057	23.453	77.616	130.276	3.067	9.033	-22.963	-0.003
2284.500	77.516	6.053	23.950	77.516	133.574	3.150	8.715	-26.087	-0.001
2285.000	77.416	6.057	23.998	77.416	133.283	3.227	8.333	-26.174	0.003
2285.500	77.316	6.060	24.329	77.316	129.976	3.173	8.143	-21.981	0.007
2286.000	77.215	6.064	24.394	77.215	128.981	3.075	8.272	-22.138	0.010
2286.500	77.115	6.054	23.413	77.115	131.506	3.065	8.672	-28.187	0.011
2287.000	77.015	6.025	22.485	77.015	133.948	3.103	8.996	-33.586	0.012
2287.500	76.917	6.008	22.607	76.917	134.605	3.079	8.992	-34.452	0.015
2288.000	76.818	6.021	23.295	76.818	133.693	3.008	8.932	-32.194	0.018
2288.500	76.719	6.027	24.058	76.719	131.186	2.984	9.162	-30.641	0.020
2289.000	76.620	6.007	24.993	76.620	126.347	3.052	9.503	-31.165	0.019
2289.500	76.522	5.979	25.142	76.522	121.411	3.168	9.713	-27.497	0.018
2290.000	76.425	5.946	24.421	76.425	119.362	3.286	9.958	-18.735	0.017
2290.500	76.329	5.875	24.005	76.329	121.167	3.364	10.404	-14.155	0.016
2291.000	76.236	5.769	23.456	76.236	122.930	3.317	11.153	-16.307	0.017
2291.500	76.146	5.677	21.809	76.146	117.957	3.116	12.523	-22.523	0.017
2292.000	76.058	5.625	19.722	76.058	102.914	2.867	14.226	-28.810	0.016

2292.500	75.972	5.601	18.166	75.972	83.936	2.706	15.377	-34.507	0.019
2293.000	75.887	5.592	17.698	75.887	71.692	2.630	15.802	-37.897	0.025
2293.500	75.801	5.587	18.539	75.801	68.061	2.557	16.117	-38.124	0.034
2294.000	75.716	5.586	19.907	75.716	68.379	2.476	16.588	-35.421	0.042
2294.500	75.631	5.589	20.454	75.631	71.141	2.432	16.864	-35.230	0.050
2295.000	75.546	5.591	20.658	75.546	76.405	2.399	16.678	-42.531	0.058
2295.500	75.461	5.587	21.581	75.461	84.996	2.373	15.991	-52.399	0.067
2296.000	75.376	5.578	22.592	75.376	98.024	2.502	15.225	-57.733	0.076
2296.500	75.291	5.569	23.186	75.291	110.049	2.789	15.556	-56.771	0.078
2297.000	75.206	5.553	23.911	75.206	111.872	2.912	17.236	-51.234	0.071
2297.500	75.123	5.523	24.495	75.123	102.141	2.713	18.664	-48.154	0.063
2298.000	75.040	5.500	23.975	75.040	88.753	2.443	18.787	-53.268	0.061
2298.500	74.957	5.505	23.129	74.957	79.398	2.331	18.413	-60.890	0.061
2299.000	74.874	5.520	22.651	74.874	75.550	2.356	18.463	-59.293	0.062
2299.500	74.791	5.529	22.194	74.791	76.568	2.414	18.577	-53.444	0.064
2300.000	74.708	5.531	21.591	74.708	82.947	2.464	17.987	-54.647	0.072
2300.500	74.624	5.522	21.552	74.624	90.229	2.513	16.842	-61.330	0.081
2301.000	74.541	5.504	22.142	74.541	90.719	2.504	16.366	-62.749	0.082
2301.500	74.459	5.493	22.260	74.459	85.459	2.373	17.163	-59.034	0.072
2302.000	74.377	5.495	21.663	74.377	82.397	2.229	18.049	-57.460	0.060
2302.500	74.294	5.496	21.382	74.294	83.667	2.217	17.933	-57.141	0.055
2303.000	74.212	5.487	21.874	74.212	83.045	2.289	17.440	-52.497	0.052
2303.500	74.130	5.477	22.513	74.130	75.557	2.319	17.690	-44.631	0.047
2304.000	74.048	5.474	22.187	74.048	64.363	2.312	18.639	-40.469	0.040
2304.500	73.966	5.480	21.162	73.966	55.579	2.299	19.528	-37.573	0.037
2305.000	73.884	5.489	20.654	73.884	50.482	2.278	20.038	-31.867	0.038
2305.500	73.802	5.495	20.977	73.802	47.078	2.265	20.354	-25.943	0.040
2306.000	73.720	5.506	21.337	73.720	44.917	2.259	20.614	-23.827	0.042
2306.500	73.637	5.523	21.401	73.637	45.765	2.229	20.702	-23.970	0.044
2307.000	73.554	5.532	21.541	73.554	50.223	2.191	20.501	-23.386	0.046
2307.500	73.470	5.529	21.898	73.470	54.396	2.200	20.332	-19.047	0.048
2308.000	73.387	5.523	22.326	73.387	53.961	2.276	20.570	-13.255	0.046
2308.500	73.304	5.518	22.338	73.304	51.745	2.364	20.835	-13.454	0.044
2309.000	73.221	5.518	21.675	73.221	53.533	2.384	20.510	-18.990	0.045
2309.500	73.138	5.521	20.865	73.138	58.649	2.308	20.007	-22.410	0.047
2310.000	73.055	5.526	20.747	73.055	64.404	2.186	20.188	-25.870	0.045
2310.500	72.971	5.532	21.470	72.971	70.394	2.087	20.757	-29.780	0.042
2311.000	72.888	5.534	22.157	72.888	74.275	2.057	20.726	-28.668	0.043
2311.500	72.804	5.529	21.780	72.804	72.788	2.104	19.982	-25.109	0.048
2312.000	72.721	5.515	20.922	72.721	68.445	2.186	19.404	-25.415	0.051
2312.500	72.638	5.499	20.519	72.638	66.210	2.238	19.513	-26.361	0.049
2313.000	72.556	5.495	20.646	72.556	67.499	2.246	19.827	-22.907	0.046
2313.500	72.473	5.501	21.043	72.473	71.724	2.269	19.790	-19.260	0.044
2314.000	72.391	5.500	21.572	72.391	77.950	2.308	19.429	-19.299	0.043
2314.500	72.308	5.498	21.766	72.308	83.024	2.298	19.058	-21.653	0.043
2315.000	72.226	5.501	21.941	72.226	83.203	2.265	19.014	-22.445	0.043
2315.500	72.143	5.503	22.698	72.143	78.402	2.282	19.458	-21.223	0.042
2316.000	72.061	5.502	23.239	72.061	72.280	2.317	20.011	-20.050	0.041
2316.500	71.978	5.502	22.863	71.978	70.380	2.315	20.044	-19.541	0.041
2317.000	71.896	5.498	22.316	71.896	74.873	2.296	19.390	-18.278	0.042
2317.500	71.813	5.489	22.335	71.813	80.650	2.281	18.775	-17.904	0.043
2318.000	71.731	5.483	22.596	71.731	80.545	2.240	19.096	-21.115	0.040
2318.500	71.649	5.482	22.906	71.649	76.972	2.174	19.902	-22.011	0.035
2319.000	71.567	5.490	23.052	71.567	78.181	2.157	19.906	-17.810	0.034

2319.500	71.485	5.512	23.215	71.485	83.325	2.236	19.024	-15.889	0.039
2320.000	71.402	5.527	23.498	71.402	84.915	2.354	18.616	-20.680	0.041
2320.500	71.319	5.518	23.641	71.319	82.077	2.440	19.399	-26.214	0.038
2321.000	71.236	5.504	23.272	71.236	78.734	2.480	20.451	-27.275	0.032
2321.500	71.153	5.499	22.572	71.153	77.201	2.451	20.571	-26.062	0.033
2322.000	71.071	5.492	21.917	71.071	78.464	2.338	19.541	-24.604	0.039
2322.500	70.989	5.483	21.839	70.989	79.270	2.198	18.276	-21.521	0.048
2323.000	70.907	5.485	21.924	70.907	76.512	2.108	17.887	-16.264	0.051
2323.500	70.824	5.508	21.446	70.824	74.449	2.075	18.338	-13.175	0.049
2324.000	70.742	5.535	20.834	70.742	76.277	2.065	18.617	-14.712	0.047
2324.500	70.658	5.541	21.001	70.658	78.206	2.049	18.257	-15.436	0.048
2325.000	70.574	5.522	21.496	70.574	78.995	2.059	17.776	-11.288	0.050
2325.500	70.491	5.503	21.180	70.491	82.077	2.189	17.786	-9.976	0.048
2326.000	70.409	5.503	20.643	70.409	86.902	2.420	18.260	-12.140	0.044
2326.500	70.326	5.513	20.763	70.326	88.378	2.563	18.949	-8.550	0.039
2327.000	70.243	5.520	21.154	70.243	88.917	2.569	19.742	-3.918	0.034
2327.500	70.160	5.517	20.937	70.160	100.263	2.575	20.298	-6.276	0.030
2328.000	70.077	5.512	20.655	70.077	123.583	2.596	20.061	-10.179	0.030
2328.500	69.994	5.511	20.903	69.994	139.870	2.554	19.102	-8.862	0.035
2329.000	69.911	5.514	21.414	69.911	134.079	2.467	18.311	-3.499	0.041
2329.500	69.828	5.520	21.809	69.828	112.865	2.378	18.277	2.434	0.043
2330.000	69.745	5.521	22.196	69.745	92.731	2.303	18.666	4.705	0.042
2330.500	69.662	5.516	22.273	69.662	82.744	2.272	19.150	0.935	0.041
2331.000	69.579	5.507	21.910	69.579	79.850	2.281	19.744	-5.204	0.038
2331.500	69.497	5.498	21.525	69.497	79.361	2.258	20.181	-10.184	0.036
2332.000	69.414	5.499	20.908	69.414	84.714	2.201	19.904	-15.758	0.036
2332.500	69.332	5.512	20.276	69.332	95.667	2.213	18.974	-22.143	0.039
2333.000	69.249	5.511	20.596	69.249	102.866	2.312	18.374	-24.738	0.040
2333.500	69.166	5.499	21.592	69.166	103.580	2.376	18.676	-23.577	0.035
2334.000	69.084	5.496	22.170	69.084	101.837	2.379	19.230	-20.678	0.030
2334.500	69.001	5.491	22.504	69.001	96.798	2.374	19.423	-16.496	0.029
2335.000	68.919	5.483	22.765	68.919	89.711	2.348	19.424	-14.605	0.030
2335.500	68.837	5.492	22.332	68.837	89.320	2.320	19.318	-18.025	0.031
2336.000	68.755	5.509	21.648	68.755	97.265	2.351	18.912	-22.281	0.035
2336.500	68.672	5.520	21.702	68.672	101.850	2.375	18.333	-24.282	0.038
2337.000	68.589	5.529	22.033	68.589	94.817	2.288	17.868	-24.763	0.042
2337.500	68.505	5.527	21.656	68.505	82.600	2.185	17.486	-25.007	0.047
2338.000	68.422	5.514	21.186	68.422	73.319	2.234	17.263	-23.760	0.053
2338.500	68.339	5.502	21.531	68.339	66.589	2.399	17.758	-22.489	0.055
2339.000	68.257	5.495	21.941	68.257	61.464	2.489	19.052	-25.112	0.051
2339.500	68.174	5.495	21.614	68.174	60.457	2.464	20.226	-29.925	0.047
2340.000	68.092	5.500	21.213	68.092	63.145	2.397	20.483	-33.331	0.047
2340.500	68.010	5.497	21.297	68.010	65.705	2.273	19.984	-33.577	0.051
2341.000	67.927	5.504	21.465	67.927	65.150	2.127	19.494	-29.235	0.055
2341.500	67.844	5.529	21.457	67.844	60.610	2.094	19.594	-21.937	0.055
2342.000	67.761	5.551	21.442	67.761	54.388	2.179	20.150	-19.167	0.053
2342.500	67.677	5.563	21.422	67.677	49.565	2.257	20.782	-23.257	0.048
2343.000	67.592	5.574	21.069	67.592	46.707	2.274	21.448	-30.531	0.043
2343.500	67.507	5.575	20.549	67.507	45.432	2.244	21.992	-35.460	0.039
2344.000	67.423	5.564	20.185	67.423	47.372	2.198	21.845	-32.038	0.040
2344.500	67.338	5.565	19.770	67.338	53.723	2.180	20.786	-25.596	0.046
2345.000	67.254	5.571	19.301	67.254	61.877	2.210	19.410	-27.205	0.051
2345.500	67.169	5.563	19.703	67.169	65.852	2.245	18.752	-34.099	0.051
2346.000	67.085	5.555	21.255	67.085	62.101	2.232	19.358	-35.855	0.045

2346.500	67.001	5.566	22.440	67.001	54.483	2.180	20.616	-34.777	0.037
2347.000	66.916	5.581	22.227	66.916	49.678	2.123	21.506	-36.629	0.033
2347.500	66.831	5.581	21.846	66.831	48.869	2.091	21.601	-36.222	0.033
2348.000	66.746	5.572	21.781	66.746	50.094	2.121	21.115	-29.909	0.033
2348.500	66.662	5.564	21.539	66.662	52.716	2.211	20.475	-24.098	0.033
2349.000	66.577	5.556	21.263	66.577	57.901	2.286	20.043	-24.429	0.033
2349.500	66.493	5.558	21.181	66.493	66.267	2.318	19.909	-27.667	0.032
2350.000	66.409	5.578	21.097	66.409	76.317	2.333	20.057	-29.537	0.030
2350.500	66.324	5.596	21.710	66.324	83.333	2.309	20.397	-30.674	0.029
2351.000	66.238	5.599	23.104	66.238	83.643	2.234	20.690	-33.296	0.030
2351.500	66.153	5.593	23.716	66.153	78.516	2.181	20.677	-34.294	0.034
2352.000	66.068	5.588	23.050	66.068	72.086	2.200	20.360	-30.898	0.041
2352.500	65.982	5.583	22.315	65.982	68.410	2.233	20.008	-27.727	0.046
2353.000	65.898	5.582	21.879	65.898	68.757	2.226	19.766	-30.565	0.049
2353.500	65.813	5.586	21.609	65.813	70.171	2.238	19.708	-37.000	0.048
2354.000	65.727	5.597	21.509	65.727	69.888	2.340	19.957	-39.652	0.044
2354.500	65.642	5.613	21.423	65.642	68.556	2.489	20.281	-39.270	0.040
2355.000	65.556	5.617	21.096	65.556	66.638	2.625	20.160	-39.376	0.038
2355.500	65.470	5.611	20.455	65.470	62.891	2.718	19.738	-36.696	0.039
2356.000	65.384	5.608	19.944	65.384	60.145	2.737	19.465	-28.720	0.039
2356.500	65.298	5.616	19.815	65.298	64.205	2.695	18.901	-23.227	0.041
2357.000	65.212	5.626	19.934	65.212	74.233	2.612	17.546	-25.613	0.048
2357.500	65.126	5.626	20.336	65.126	79.323	2.502	16.164	-29.742	0.054
2358.000	65.039	5.624	20.774	65.039	72.990	2.450	15.785	-33.188	0.053
2358.500	64.953	5.630	20.840	64.953	63.798	2.528	16.137	-39.554	0.046
2359.000	64.867	5.654	20.855	64.867	65.858	2.688	15.984	-46.080	0.038
2359.500	64.779	5.714	21.094	64.779	83.627	2.837	14.470	-47.472	0.038
2360.000	64.689	5.811	21.292	64.689	104.556	2.886	12.176	-45.294	0.043
2360.500	64.596	5.896	21.318	64.596	110.943	2.761	10.780	-44.274	0.043
2361.000	64.501	5.942	20.478	64.501	100.227	2.540	11.136	-44.676	0.034
2361.500	64.405	5.957	18.918	64.405	85.516	2.348	12.395	-43.606	0.022
2362.000	64.308	5.960	18.004	64.308	75.761	2.214	13.260	-37.613	0.013
2362.500	64.211	5.962	17.985	64.211	70.137	2.188	13.073	-27.862	0.012
2363.000	64.114	5.964	18.582	64.114	66.450	2.338	12.228	-15.500	0.014
2363.500	64.017	5.964	19.499	64.017	66.922	2.585	11.269	-2.802	0.016
2364.000	63.920	5.965	20.401	63.920	77.935	2.809	9.925	5.018	0.016
2364.500	63.823	5.960	21.461	63.823	100.626	3.003	8.172	4.352	0.015
2365.000	63.726	5.943	23.598	63.726	124.563	3.116	7.050	-0.924	0.011
2365.500	63.630	5.941	26.375	63.630	140.937	3.097	7.028	-1.481	0.004
2366.000	63.534	5.960	27.463	63.534	148.440	3.110	7.345	4.339	0.001
2366.500	63.437	5.970	27.086	63.437	149.177	3.276	7.621	8.514	0.002
2367.000	63.340	5.959	26.483	63.340	147.428	3.494	7.954	8.314	0.002
2367.500	63.243	5.940	25.853	63.243	148.384	3.614	8.138	6.069	0.003
2368.000	63.147	5.929	25.983	63.147	152.311	3.605	7.919	-1.199	0.004
2368.500	63.051	5.932	27.265	63.051	154.699	3.497	7.465	-14.889	0.007
2369.000	62.955	5.936	28.510	62.955	153.246	3.331	7.173	-26.542	0.009
2369.500	62.859	5.938	28.750	62.859	149.924	3.242	7.141	-27.560	0.011
2370.000	62.763	5.948	28.966	62.763	150.281	3.325	7.312	-23.589	0.012
2370.500	62.666	5.960	29.501	62.666	153.439	3.492	7.860	-25.395	0.011
2371.000	62.569	5.963	30.149	62.569	153.778	3.598	8.715	-31.234	0.005
2371.500	62.472	5.960	30.126	62.472	150.387	3.641	9.267	-34.025	-0.001
2372.000	62.375	5.954	29.537	62.375	147.800	3.611	9.196	-33.624	-0.003
2372.500	62.279	5.951	28.612	62.279	147.303	3.440	8.826	-29.287	-0.003
2373.000	62.182	5.958	27.383	62.182	145.952	3.215	8.440	-22.511	-0.003

2373.500	62.085	5.964	26.412	62.085	142.535	3.124	8.114	-15.979	-0.002
2374.000	61.988	5.959	26.209	61.988	138.643	3.153	7.901	-12.931	-0.001
2374.500	61.891	5.949	26.499	61.891	136.402	3.144	7.915	-14.659	-0.000
2375.000	61.795	5.940	26.872	61.795	135.902	3.126	8.105	-17.579	0.000
2375.500	61.699	5.935	27.275	61.699	136.179	3.180	8.364	-16.310	0.000
2376.000	61.603	5.942	27.782	61.603	136.814	3.250	8.664	-13.867	-0.001
2376.500	61.506	5.953	28.476	61.506	138.100	3.312	8.949	-14.023	-0.003
2377.000	61.410	5.957	28.856	61.410	140.026	3.396	9.101	-14.944	-0.004
2377.500	61.313	5.954	28.403	61.313	142.594	3.457	9.029	-15.996	-0.004
2378.000	61.216	5.950	27.800	61.216	144.260	3.515	8.747	-16.381	-0.002
2378.500	61.120	5.950	28.128	61.120	142.807	3.592	8.525	-18.233	-0.000
2379.000	61.023	5.954	28.734	61.023	139.319	3.611	8.430	-23.163	-0.001
2379.500	60.926	5.970	28.512	60.926	137.966	3.547	8.153	-23.714	0.000
2380.000	60.829	5.991	27.701	60.829	141.253	3.469	7.734	-15.563	0.004
2380.500	60.731	5.992	26.914	60.731	146.274	3.380	7.749	-7.057	0.008
2381.000	60.633	5.967	26.815	60.633	147.797	3.276	8.176	-5.707	0.009
2381.500	60.537	5.940	27.722	60.537	143.731	3.189	8.404	-10.531	0.010
2382.000	60.440	5.934	28.834	60.440	139.012	3.147	8.257	-18.448	0.012
2382.500	60.344	5.939	29.288	60.344	138.605	3.142	8.129	-22.646	0.013
2383.000	60.248	5.937	29.032	60.248	141.876	3.144	8.220	-20.541	0.014
2383.500	60.152	5.929	28.129	60.152	145.111	3.115	8.202	-15.248	0.014
2384.000	60.056	5.929	27.225	60.056	147.782	3.046	7.811	-13.106	0.016
2384.500	59.960	5.934	27.125	59.960	149.212	3.014	7.381	-21.800	0.018
2385.000	59.864	5.941	27.279	59.864	147.108	3.025	7.576	-35.716	0.017
2385.500	59.768	5.954	26.860	59.768	141.515	2.997	8.174	-39.470	0.013
2386.000	59.671	5.960	25.711	59.671	135.016	3.010	8.117	-34.799	0.011
2386.500	59.574	5.953	24.493	59.574	128.864	3.248	7.251	-31.908	0.011
2387.000	59.478	5.944	23.821	59.478	123.522	3.588	6.756	-28.171	0.008
2387.500	59.381	5.949	23.627	59.381	120.652	3.638	7.210	-21.456	0.002
2388.000	59.285	5.966	23.813	59.285	120.993	3.343	7.702	-17.804	0.000
2388.500	59.188	5.979	24.455	59.188	123.162	3.042	7.520	-17.722	0.003
2389.000	59.090	5.967	24.660	59.090	125.374	2.964	7.083	-17.882	0.007
2389.500	58.993	5.942	23.942	58.993	126.730	3.007	7.112	-17.166	0.008
2390.000	58.897	5.930	23.430	58.897	127.936	3.012	7.610	-12.526	0.005
2390.500	58.801	5.938	23.510	58.801	129.749	3.024	7.947	-3.251	0.004
2391.000	58.705	5.948	23.568	58.705	131.990	3.149	7.685	7.710	0.007
2391.500	58.608	5.944	23.839	58.608	132.766	3.352	7.305	13.884	0.009
2392.000	58.512	5.940	24.598	58.512	132.046	3.560	7.512	11.161	0.006
2392.500	58.416	5.952	25.158	58.416	131.234	3.706	8.193	4.437	0.001
2393.000	58.319	5.973	25.171	58.319	129.489	3.685	8.621	2.059	-0.002
2393.500	58.222	5.983	24.610	58.222	126.411	3.538	8.521	2.615	-0.001
2394.000	58.124	5.980	23.552	58.124	122.882	3.428	8.111	1.206	0.002
2394.500	58.027	5.973	22.735	58.027	119.787	3.389	7.972	-0.254	0.003
2395.000	57.929	5.960	22.877	57.929	119.142	3.314	8.314	1.322	-0.000
2395.500	57.833	5.941	23.722	57.833	123.789	3.224	8.527	0.197	-0.002
2396.000	57.737	5.928	24.260	57.737	130.885	3.220	8.225	-4.008	-0.002
2396.500	57.641	5.933	24.234	57.641	135.490	3.291	7.633	-5.177	0.001
2397.000	57.545	5.947	24.293	57.545	136.143	3.301	7.345	-0.239	0.003
2397.500	57.448	5.956	24.396	57.448	133.477	3.207	7.438	4.086	0.003
2398.000	57.351	5.956	24.047	57.351	130.680	3.144	7.431	3.668	0.004
2398.500	57.255	5.954	23.695	57.255	131.033	3.215	7.478	2.299	0.005
2399.000	57.158	5.948	23.791	57.158	132.811	3.320	7.942	4.538	0.002
2399.500	57.062	5.940	23.679	57.062	132.578	3.339	8.371	6.963	-0.001
2400.000	56.965	5.931	23.310	56.965	130.120	3.288	8.403	7.630	-0.003

2400.500	56.870	5.933	23.173	56.870	127.192	3.230	8.186	5.506	-0.002
2401.000	56.773	5.961	23.230	56.773	124.573	3.202	7.736	1.089	0.000
2401.500	56.676	5.989	23.354	56.676	123.343	3.220	7.085	-2.035	0.006
2402.000	56.578	5.979	23.391	56.578	124.680	3.278	6.728	-1.027	0.011
2402.500	56.481	5.949	23.251	56.481	128.263	3.340	6.906	1.787	0.013
2403.000	56.385	5.930	23.111	56.385	131.412	3.318	7.536	3.618	0.011
2403.500	56.289	5.923	23.160	56.289	131.706	3.145	8.123	4.945	0.007
2404.000	56.193	5.925	23.049	56.193	129.841	2.865	7.976	4.840	0.006
2404.500	56.098	5.927	22.982	56.098	128.039	2.601	7.077	-0.591	0.008
2405.000	56.002	5.919	23.201	56.002	126.774	2.511	6.073	-7.581	0.013
2405.500	55.906	5.906	23.612	55.906	127.462	2.636	5.588	-8.392	0.016
2406.000	55.811	5.910	23.901	55.811	131.475	2.906	5.798	-3.266	0.016
2406.500	55.716	5.933	24.037	55.716	135.016	3.264	6.552	0.570	0.011
2407.000	55.620	5.951	23.806	55.620	133.535	3.550	7.668	-0.203	0.004
2407.500	55.523	5.958	23.594	55.523	130.464	3.565	8.568	-2.334	-0.002
2408.000	55.426	5.962	24.077	55.426	130.428	3.415	8.729	-0.741	-0.004
2408.500	55.329	5.955	24.749	55.329	130.746	3.312	8.423	3.859	-0.003
2409.000	55.233	5.944	24.686	55.233	128.099	3.241	8.225	6.053	-0.003
2409.500	55.136	5.944	24.304	55.136	125.859	3.111	8.044	4.617	-0.004
2410.000	55.040	5.948	24.177	55.040	126.585	2.928	7.565	2.177	-0.002
2410.500	54.943	5.942	24.027	54.943	128.859	2.770	7.030	-0.160	0.001
2411.000	54.847	5.935	23.566	54.847	131.443	2.785	6.812	-1.787	0.003
2411.500	54.751	5.936	22.893	54.751	133.603	3.009	7.030	1.464	0.003
2412.000	54.655	5.946	22.705	54.655	133.056	3.261	7.437	11.375	0.002
2412.500	54.559	5.951	23.381	54.559	130.809	3.337	7.682	20.501	0.003
2413.000	54.462	5.943	23.965	54.462	128.634	3.254	7.517	19.770	0.007
2413.500	54.366	5.935	23.252	54.366	125.844	3.149	7.099	10.623	0.012
2414.000	54.270	5.942	22.242	54.270	123.557	3.033	6.760	0.679	0.015
2414.500	54.173	5.957	22.083	54.173	123.124	2.905	6.577	-4.004	0.016
2415.000	54.076	5.960	22.467	54.076	122.925	2.865	6.532	-2.986	0.015
2415.500	53.980	5.953	22.943	53.980	122.026	2.948	6.704	2.459	0.012
2416.000	53.883	5.950	23.650	53.883	123.167	3.069	6.961	7.018	0.009
2416.500	53.786	5.955	24.424	53.786	125.744	3.162	7.047	4.880	0.007
2417.000	53.690	5.960	24.827	53.690	126.965	3.188	7.065	0.593	0.005
2417.500	53.593	5.956	24.791	53.593	127.637	3.146	7.127	2.021	0.002
2418.000	53.496	5.949	24.292	53.496	128.991	3.148	7.228	4.137	-0.001
2418.500	53.400	5.941	23.697	53.400	129.341	3.234	7.532	2.110	-0.003
2419.000	53.304	5.931	23.464	53.304	127.229	3.277	7.883	1.384	-0.005
2419.500	53.208	5.928	23.848	53.208	126.327	3.205	7.762	3.677	-0.004
2420.000	53.112	5.941	24.364	53.112	128.841	3.138	7.406	3.610	-0.001
2420.500	53.015	5.943	24.359	53.015	130.730	3.183	7.536	2.370	-0.001
2421.000	52.919	5.932	23.671	52.919	129.754	3.270	8.117	3.994	-0.004
2421.500	52.823	5.933	23.316	52.823	128.537	3.244	8.579	7.778	-0.007
2422.000	52.727	5.948	23.197	52.727	128.406	3.096	8.526	8.536	-0.007
2422.500	52.631	5.958	22.398	52.631	129.102	2.979	8.069	4.036	-0.004
2423.000	52.534	5.952	21.338	52.534	130.333	2.999	7.791	-0.494	-0.001
2423.500	52.437	5.936	21.253	52.437	128.490	3.087	7.968	-2.945	0.001
2424.000	52.341	5.928	21.744	52.341	122.094	3.173	8.226	-5.082	0.001
2424.500	52.245	5.938	21.387	52.245	115.228	3.279	8.401	-3.338	0.000
2425.000	52.149	5.953	20.373	52.149	110.491	3.370	8.604	3.260	-0.001
2425.500	52.052	5.958	19.529	52.052	107.470	3.363	8.712	6.258	-0.002
2426.000	51.956	5.958	18.764	51.956	104.350	3.274	8.505	0.668	-0.002
2426.500	51.859	5.958	17.744	51.859	99.683	3.135	8.051	-7.733	0.001
2427.000	51.762	5.959	16.818	51.762	96.077	3.021	7.507	-10.374	0.004

2427.500	51.665	5.960	16.497	51.665	97.245	3.102	7.068	-7.441	0.004
2428.000	51.568	5.958	17.145	51.568	101.914	3.386	6.881	-5.061	0.002
2428.500	51.472	5.954	18.709	51.472	105.329	3.613	6.844	-5.239	-0.001
2429.000	51.375	5.959	20.405	51.375	105.530	3.633	6.622	-7.311	-0.001
2429.500	51.278	5.966	21.369	51.278	104.911	3.607	6.064	-10.107	0.002
2430.000	51.181	5.966	21.862	51.181	106.075	3.647	5.571	-9.305	0.005
2430.500	51.084	5.963	22.056	51.084	108.344	3.680	5.638	-6.616	0.006
2431.000	50.987	5.963	22.150	50.987	110.655	3.698	6.043	-8.143	0.004
2431.500	50.890	5.962	22.468	50.890	115.285	3.838	6.264	-12.173	0.004
2432.000	50.793	5.955	23.525	50.793	127.515	4.014	6.802	-15.576	0.005
2432.500	50.696	5.944	25.415	50.696	150.135	3.867	8.788	-19.501	0.002
2433.000	50.600	5.936	28.074	50.600	177.113	3.480	11.706	-23.724	-0.002
2433.500	50.504	5.941	30.990	50.504	200.851	3.256	14.223	-26.799	-0.003
2434.000	50.408	5.959	34.263	50.408	222.249	3.300	16.136	-24.578	-0.002
2434.500	50.311	5.973	37.833	50.311	244.879	3.384	17.794	-15.642	-0.003
2435.000	50.213	5.969	38.611	50.213	261.295	3.329	18.838	-8.198	-0.004
2435.500	50.116	5.954	36.509	50.116	257.305	3.199	18.525	-9.791	-0.004
2436.000	50.020	5.949	33.582	50.020	228.769	3.146	16.447	-15.854	-0.002
2436.500	49.923	5.955	30.770	49.923	189.954	3.257	12.852	-18.327	0.004
2437.000	49.826	5.958	28.578	49.826	159.280	3.480	9.166	-12.342	0.011
2437.500	49.730	5.950	27.301	49.730	142.716	3.640	7.244	-7.479	0.010
2438.000	49.633	5.946	26.151	49.633	134.872	3.644	7.059	-12.943	0.003
2438.500	49.537	5.947	25.310	49.537	130.936	3.597	7.273	-23.215	-0.004
2439.000	49.440	5.947	25.661	49.440	129.418	3.620	7.361	-29.094	-0.007
2439.500	49.344	5.946	27.060	49.344	130.055	3.662	7.191	-30.891	-0.007
2440.000	49.247	5.950	28.076	49.247	133.141	3.598	6.625	-28.187	-0.003
2440.500	49.151	5.960	28.376	49.151	138.359	3.428	6.089	-23.755	0.004
2441.000	49.054	5.963	28.962	49.054	144.302	3.296	6.388	-23.141	0.008
2441.500	48.957	5.952	29.635	48.957	149.444	3.257	7.520	-27.333	0.010
2442.000	48.861	5.934	29.581	48.861	153.561	3.230	8.588	-29.736	0.010
2442.500	48.765	5.926	29.896	48.765	157.124	3.200	8.985	-27.258	0.010
2443.000	48.669	5.938	30.697	48.669	159.251	3.296	8.863	-25.983	0.006
2443.500	48.572	5.964	30.786	48.572	158.492	3.549	8.702	-28.573	0.000
2444.000	48.475	5.973	30.959	48.475	156.491	3.736	8.600	-28.847	-0.003
2444.500	48.378	5.959	31.802	48.378	155.928	3.714	8.709	-26.759	-0.002
2445.000	48.281	5.945	31.651	48.281	155.938	3.593	9.016	-27.174	0.001
2445.500	48.185	5.951	30.098	48.185	153.033	3.430	9.225	-27.883	0.004
2446.000	48.088	5.960	27.494	48.088	145.352	3.222	8.797	-22.064	0.006
2446.500	47.991	5.960	23.951	47.991	133.548	3.150	7.218	-13.767	0.007
2447.000	47.895	5.950	20.597	47.895	122.453	3.391	4.715	-12.145	0.010
2447.500	47.798	5.940	18.334	47.798	120.698	3.605	2.762	-16.702	0.014
2448.000	47.702	5.942	17.768	47.702	129.637	3.342	2.920	-20.343	0.012
2448.500	47.606	5.949	19.716	47.606	140.249	2.943	4.659	-17.777	0.007
2449.000	47.509	5.947	24.209	47.509	144.746	2.799	6.488	-11.580	0.004
2449.500	47.413	5.942	28.055	47.413	145.002	2.877	7.673	-5.783	0.002
2450.000	47.316	5.945	28.875	47.316	145.006	3.024	8.110	1.461	0.001
2450.500	47.220	5.955	28.604	47.220	145.766	3.168	7.979	10.004	0.001
2451.000	47.123	5.965	28.340	47.123	145.800	3.294	7.723	10.151	0.001
2451.500	47.026	5.974	28.040	47.026	145.744	3.460	7.631	-0.317	0.001
2452.000	46.929	5.972	27.703	46.929	147.839	3.647	7.855	-13.249	-0.001
2452.500	46.831	5.964	27.723	46.831	149.932	3.690	8.375	-23.475	-0.003
2453.000	46.735	5.956	27.953	46.735	149.261	3.553	8.890	-29.056	-0.006
2453.500	46.638	5.943	27.413	46.638	148.867	3.393	9.142	-26.188	-0.007
2454.000	46.542	5.919	25.647	46.542	150.236	3.326	9.216	-20.080	-0.006

2454.500	46.447	5.873	23.871	46.447	150.308	3.361	9.199	-21.486	-0.004
2455.000	46.353	5.793	23.179	46.353	144.433	3.503	9.088	-30.069	-0.001
2455.500	46.262	5.698	21.895	46.262	127.643	3.777	8.895	-30.675	0.002
2456.000	46.174	5.625	18.410	46.174	98.885	4.156	8.742	-21.339	0.009
2456.500	46.088	5.572	14.593	46.088	66.943	4.453	8.967	-13.985	0.017
2457.000	46.004	5.535	12.161	46.004	42.326	4.514	9.337	-15.648	0.025
2457.500	45.921	5.518	10.902	45.921	29.251	4.401	8.980	-21.256	0.032
2458.000	45.838	5.524	10.220	45.838	24.785	4.280	7.612	-26.921	0.039
2458.500	45.754	5.534	10.049	45.754	24.240	4.308	6.171	-32.711	0.045
2459.000	45.671	5.532	10.353	45.671	26.220	4.483	5.892	-38.017	0.046
2459.500	45.588	5.500	10.807	45.588	31.382	4.659	6.830	-37.553	0.044
2460.000	45.506	5.422	11.225	45.506	39.132	4.760	8.080	-27.186	0.040
2460.500	45.426	5.339	11.786	45.426	47.176	4.745	9.083	-18.037	0.036
2461.000	45.349	5.316	12.469	45.349	52.405	4.593	9.563	-22.617	0.033
2461.500	45.271	5.346	12.942	45.271	52.146	4.440	9.131	-32.796	0.035
2462.000	45.193	5.374	13.195	45.193	46.740	4.460	8.042	-32.593	0.039
2462.500	45.114	5.408	13.453	45.114	40.011	4.592	7.135	-30.007	0.040
2463.000	45.034	5.471	13.505	45.034	35.420	4.566	6.473	-27.327	0.041
2463.500	44.952	5.543	13.009	44.952	33.938	4.364	5.583	-12.267	0.045
2464.000	44.868	5.611	12.110	44.868	34.785	4.275	4.911	3.884	0.048
2464.500	44.781	5.710	10.942	44.781	36.477	4.378	5.106	-0.138	0.045
2465.000	44.691	5.834	9.568	44.691	36.323	4.462	5.481	10.464	0.039
2465.500	44.598	5.925	8.215	44.598	33.457	4.414	4.935	48.706	0.034
2466.000	44.501	5.952	6.945	44.501	30.669	4.351	3.597	63.190	0.030
2466.500	44.405	5.948	5.662	44.405	32.209	4.392	2.594	35.010	0.021
2467.000	44.308	5.948	4.520	44.308	38.987	4.521	2.482	-8.066	0.007
2467.500	44.212	5.967	3.710	44.212	45.356	4.669	2.619	-14.659	-0.003
2468.000	44.115	5.991	3.221	44.115	46.200	4.833	2.528	57.552	-0.007
2468.500	44.017	6.002	3.010	44.017	43.057	4.957	2.635	150.595	-0.009
2469.000	43.918	6.006	3.085	43.918	39.874	4.903	3.095	159.744	-0.011
2469.500	43.820	6.003	3.350	43.820	38.057	4.712	3.313	97.275	-0.011
2470.000	43.722	5.979	3.659	43.722	37.809	4.597	2.970	44.539	-0.009
2470.500	43.625	5.956	4.074	43.625	38.862	4.685	2.535	22.532	-0.007
2471.000	43.528	5.955	4.908	43.528	41.174	4.874	2.466	19.393	-0.007
2471.500	43.431	5.964	6.442	43.431	48.797	4.850	2.728	21.678	-0.007
2472.000	43.334	5.962	8.797	43.334	67.230	4.429	3.233	23.518	-0.003
2472.500	43.237	5.961	12.059	43.237	91.378	3.834	3.859	22.322	0.001
2473.000	43.140	5.969	15.839	43.140	103.499	3.320	4.022	22.744	0.003
2473.500	43.043	5.974	17.369	43.043	94.202	3.077	2.864	26.053	0.004
2474.000	42.946	5.972	15.913	42.946	77.418	3.259	0.792	26.202	0.005
2474.500	42.848	5.981	14.537	42.848	71.168	3.610	0.141	21.863	0.003
2475.000	42.751	6.000	14.635	42.751	77.876	3.682	1.957	19.541	-0.002
2475.500	42.652	6.001	16.158	42.652	89.146	3.499	4.311	19.483	-0.004
2476.000	42.554	5.982	17.959	42.554	98.935	3.255	5.598	15.789	-0.001
2476.500	42.457	5.975	18.751	42.457	104.179	3.073	5.779	11.350	0.004
2477.000	42.359	5.988	19.002	42.359	104.042	3.068	5.755	11.405	0.006
2477.500	42.261	6.001	19.358	42.261	101.317	3.267	6.111	11.926	0.005
2478.000	42.163	5.998	19.448	42.163	99.728	3.483	6.649	6.681	0.003
2478.500	42.065	5.983	19.195	42.065	100.257	3.449	6.918	0.443	0.003
2479.000	41.968	5.975	18.955	41.968	100.980	3.237	6.556	-1.963	0.007
2479.500	41.870	5.977	18.842	41.870	98.551	3.185	5.321	-2.098	0.012
2480.000	41.773	5.977	18.666	41.773	92.296	3.409	3.506	-2.649	0.018
2480.500	41.676	5.970	18.301	41.676	87.414	3.595	2.191	-3.176	0.020
2481.000	41.578	5.970	18.107	41.578	89.366	3.562	2.389	-0.579	0.017

2481.500	41.481	5.979	18.709	41.481	97.591	3.478	3.866	4.205	0.011
2482.000	41.384	5.986	19.947	41.384	108.705	3.442	5.557	6.708	0.006
2482.500	41.286	5.975	21.237	41.286	118.556	3.403	6.918	8.209	0.002
2483.000	41.189	5.963	22.335	41.189	123.390	3.318	7.712	8.573	-0.001
2483.500	41.092	5.970	22.907	41.092	122.170	3.241	7.686	4.797	-0.001
2484.000	40.994	5.989	22.567	40.994	118.033	3.255	7.146	-1.717	0.001
2484.500	40.896	6.000	22.144	40.896	117.259	3.362	6.933	-6.879	0.001
2485.000	40.798	5.998	22.575	40.798	122.990	3.510	7.203	-10.107	-0.002
2485.500	40.700	5.995	23.847	40.700	131.556	3.614	7.573	-12.056	-0.003
2486.000	40.602	5.994	25.869	40.602	137.123	3.553	7.996	-12.996	-0.004
2486.500	40.504	5.993	28.163	40.504	139.120	3.391	8.386	-13.144	-0.004
2487.000	40.406	5.989	28.512	40.406	138.786	3.309	8.479	-12.781	-0.002
2487.500	40.308	5.989	26.993	40.308	136.784	3.269	8.372	-15.562	0.000
2488.000	40.211	5.991	26.826	40.211	137.001	3.174	8.327	-20.931	0.002
2488.500	40.113	5.986	28.411	40.113	141.383	3.104	8.491	-21.933	0.002
2489.000	40.015	5.981	29.036	40.015	145.019	3.111	8.918	-18.233	-0.000
2489.500	39.918	5.972	27.826	39.918	144.377	3.137	9.465	-17.521	-0.003
2490.000	39.820	5.957	26.725	39.820	143.273	3.164	9.861	-22.297	-0.004
2490.500	39.724	5.947	26.704	39.724	144.452	3.211	10.007	-26.463	-0.004
2491.000	39.627	5.957	27.986	39.627	149.688	3.315	10.269	-26.130	-0.003
2491.500	39.530	5.976	30.303	39.530	164.154	3.427	11.304	-25.796	-0.004
2492.000	39.433	5.987	33.131	39.433	190.786	3.392	13.543	-29.688	-0.006
2492.500	39.335	5.976	35.970	39.335	224.839	3.236	16.479	-30.801	-0.009
2493.000	39.238	5.957	37.046	39.238	252.769	3.113	18.884	-24.985	-0.011
2493.500	39.141	5.948	34.766	39.141	253.548	3.083	19.577	-21.702	-0.011
2494.000	39.045	5.955	30.480	39.045	219.576	3.141	17.935	-27.161	-0.009
2494.500	38.948	5.973	26.467	38.948	172.513	3.313	14.414	-30.348	-0.006
2495.000	38.850	5.998	23.736	38.850	140.207	3.573	10.829	-24.585	-0.003
2495.500	38.752	6.015	22.911	38.752	127.309	3.780	8.829	-20.282	-0.003
2496.000	38.653	6.014	23.413	38.653	123.588	3.840	7.936	-21.695	-0.004
2496.500	38.555	6.008	24.059	38.555	121.964	3.841	7.097	-21.993	-0.003
2497.000	38.456	6.017	24.548	38.456	121.111	3.920	6.413	-16.077	-0.002
2497.500	38.357	6.034	25.270	38.357	121.359	4.053	6.176	-14.249	-0.002
2498.000	38.258	6.035	25.641	38.258	121.598	4.150	6.167	-16.820	-0.001
2498.500	38.159	6.029	25.410	38.159	122.074	4.168	6.335	-12.506	-0.000
2499.000	38.060	6.035	25.552	38.060	122.655	4.118	6.861	-0.419	0.000
2499.500	37.960	6.048	26.631	37.960	121.784	4.033	7.664	1.571	0.000
2500.000	37.860	6.063	27.669	37.860	122.849	3.976	8.535	-8.629	0.001
2500.500	37.760	6.073	27.794	37.760	131.065	3.934	9.460	-17.408	0.001
2501.000	37.660	6.069	27.559	37.660	141.964	3.861	10.303	-16.368	0.000
2501.500	37.559	6.055	27.276	37.559	144.375	3.723	10.594	-8.371	-0.001
2502.000	37.459	6.041	26.097	37.459	134.812	3.481	9.989	-0.189	-0.001
2502.500	37.360	6.035	24.527	37.360	122.175	3.220	8.703	1.664	-0.000
2503.000	37.261	6.033	23.909	37.261	116.412	3.162	7.459	-5.747	0.000
2503.500	37.161	6.031	24.257	37.161	118.234	3.385	6.907	-15.044	-0.000
2504.000	37.062	6.026	24.751	37.062	120.669	3.676	7.035	-11.568	-0.003
2504.500	36.963	6.020	25.382	36.963	121.091	3.786	7.299	-0.527	-0.005
2505.000	36.864	6.016	26.591	36.864	121.658	3.703	7.104	1.068	-0.004
2505.500	36.766	6.022	27.465	36.766	122.450	3.616	6.498	-3.656	-0.000
2506.000	36.667	6.040	26.525	36.667	122.097	3.617	6.076	-0.706	0.003
2506.500	36.567	6.051	24.607	36.567	119.237	3.658	5.865	2.440	0.003
2507.000	36.467	6.049	23.230	36.467	112.939	3.708	4.974	-3.785	0.006
2507.500	36.367	6.045	22.292	36.367	106.844	3.740	3.364	-13.069	0.012
2508.000	36.268	6.050	21.687	36.268	105.821	3.715	2.194	-18.262	0.017

2508.500	36.168	6.049	21.762	36.168	109.182	3.682	2.290	-17.666	0.015
2509.000	36.068	6.044	22.611	36.068	114.859	3.723	3.293	-11.865	0.010
2509.500	35.969	6.043	23.545	35.969	121.419	3.799	4.323	-5.558	0.006
2510.000	35.869	6.059	24.372	35.869	124.863	3.828	4.964	-0.881	0.005
2510.500	35.769	6.100	25.375	35.769	124.672	3.816	5.368	3.691	0.005
2511.000	35.667	6.141	25.916	35.667	125.842	3.768	5.597	3.572	0.006
2511.500	35.564	6.150	25.731	35.564	129.167	3.572	5.678	-2.563	0.011
2512.000	35.461	6.141	25.776	35.461	131.771	3.254	5.762	-8.228	0.021
2512.500	35.358	6.138	26.294	35.358	134.926	3.105	5.686	-11.328	0.032
2513.000	35.255	6.118	26.882	35.255	140.165	3.278	5.554	-12.107	0.037
2513.500	35.153	6.061	27.443	35.153	144.107	3.510	5.946	-7.312	0.031
2514.000	35.054	6.000	27.601	35.054	142.959	3.474	6.643	-3.129	0.020
2514.500	34.956	5.971	27.173	34.956	140.265	3.284	6.883	-8.211	0.016
2515.000	34.859	5.974	27.155	34.859	141.781	3.202	6.871	-17.924	0.018
2515.500	34.761	5.983	27.927	34.761	145.554	3.211	7.223	-24.949	0.018
2516.000	34.664	5.991	28.369	34.664	145.689	3.173	7.806	-23.070	0.011
2516.500	34.566	5.991	27.933	34.566	141.515	3.080	8.198	-11.980	0.002
2517.000	34.468	5.983	26.820	34.468	135.760	3.042	8.027	-6.869	-0.003
2517.500	34.370	5.982	25.272	34.370	130.765	3.147	7.369	-12.840	-0.002
2518.000	34.273	6.003	24.275	34.273	129.336	3.331	6.638	-17.474	0.003
2518.500	34.174	6.025	24.539	34.174	133.056	3.386	6.338	-15.945	0.007
2519.000	34.075	6.026	24.982	34.075	137.642	3.301	6.381	-16.604	0.009
2519.500	33.976	6.005	24.456	33.976	133.921	3.263	6.157	-17.427	0.011
2520.000	33.878	5.980	23.268	33.878	116.014	3.344	4.910	-12.637	0.014
2520.500	33.781	5.968	21.470	33.781	93.017	3.468	2.197	-3.699	0.021
2521.000	33.684	5.966	19.734	33.684	86.211	3.553	-0.508	-1.132	0.029
2521.500	33.586	5.969	19.623	33.586	112.569	3.586	0.679	-6.472	0.025
2522.000	33.489	5.975	22.466	33.489	178.122	3.546	7.258	-13.798	0.009
2522.500	33.392	5.972	28.445	33.392	278.195	3.414	15.446	-17.655	-0.005
2523.000	33.295	5.956	32.328	33.295	379.023	3.274	21.327	-17.390	-0.009
2523.500	33.198	5.948	26.679	33.198	410.218	3.288	22.958	-10.989	-0.009
2524.000	33.102	5.963	16.486	33.102	326.762	3.600	19.896	-4.697	-0.007
2524.500	33.004	5.981	9.496	33.004	182.598	4.172	13.322	-6.541	-0.003
2525.000	32.907	5.987	6.110	32.907	73.881	4.654	6.509	-16.186	0.000
2525.500	32.809	5.990	4.839	32.809	31.932	4.903	2.990	-24.564	-0.003
2526.000	32.711	5.997	4.605	32.711	24.393	4.982	2.603	-25.838	-0.007
2526.500	32.613	5.991	4.488	32.613	24.077	4.964	2.819	-24.719	-0.007
2527.000	32.515	5.970	3.939	32.515	23.830	5.101	2.412	-21.613	-0.004
2527.500	32.418	5.960	3.070	32.418	22.911	5.398	1.675	-9.458	-0.002
2528.000	32.321	5.975	2.344	32.321	21.936	5.430	1.061	6.728	-0.003
2528.500	32.224	5.986	1.956	32.224	22.039	5.137	0.702	13.864	-0.004
2529.000	32.126	5.976	1.763	32.126	24.495	4.943	0.485	15.603	-0.004
2529.500	32.029	5.970	1.688	32.029	28.465	4.944	0.234	22.756	-0.003
2530.000	31.932	5.979	1.803	31.932	31.444	4.933	0.035	29.824	-0.002
2530.500	31.834	5.981	1.998	31.834	33.283	4.904	0.271	27.993	-0.004
2531.000	31.737	5.966	2.077	31.737	34.618	4.966	0.988	22.442	-0.008
2531.500	31.640	5.952	2.009	31.640	33.695	5.088	1.713	25.176	-0.011
2532.000	31.543	5.946	1.912	31.543	29.807	5.174	2.074	33.358	-0.012
2532.500	31.447	5.945	1.923	31.447	27.224	5.131	2.097	34.111	-0.010
2533.000	31.350	5.954	2.205	31.350	29.273	4.911	1.912	28.334	-0.006
2533.500	31.254	5.968	2.744	31.254	32.949	4.625	1.639	23.806	-0.003
2534.000	31.156	5.972	3.144	31.156	34.066	4.463	1.299	18.476	-0.002
2534.500	31.059	5.964	3.087	31.059	33.059	4.515	0.911	14.140	-0.001
2535.000	30.962	5.955	2.912	30.962	33.027	4.748	0.748	17.179	-0.000

2535.500	30.866	5.950	3.023	30.866	34.870	5.002	1.020	23.288	-0.000
2536.000	30.769	5.953	3.480	30.769	37.002	5.080	1.381	21.239	0.001
2536.500	30.672	5.959	4.195	30.672	38.962	4.839	1.569	16.263	0.002
2537.000	30.575	5.962	5.048	30.575	41.678	4.359	1.777	16.260	0.002
2537.500	30.478	5.966	5.755	30.478	44.535	4.038	2.033	18.733	0.001
2538.000	30.381	5.973	5.931	30.381	46.158	4.185	2.288	17.992	0.000
2538.500	30.284	5.973	5.637	30.284	46.543	4.592	2.675	16.975	-0.001
2539.000	30.187	5.964	5.448	30.187	45.894	4.739	3.109	19.407	-0.003
2539.500	30.090	5.963	5.701	30.090	45.235	4.545	3.415	26.123	-0.004
2540.000	29.993	5.970	6.447	29.993	46.572	4.308	3.713	31.668	-0.003
2540.500	29.896	5.973	7.554	29.896	50.325	4.163	4.067	31.604	-0.001
2541.000	29.798	5.966	8.715	29.798	54.706	4.129	4.213	28.723	0.001
2541.500	29.701	5.959	9.295	29.701	56.627	4.263	4.066	26.712	0.005
2542.000	29.605	5.957	8.879	29.605	55.177	4.443	4.037	26.215	0.004
2542.500	29.508	5.951	7.762	29.508	54.905	4.430	4.147	27.987	0.001
2543.000	29.411	5.939	6.705	29.411	59.875	4.283	3.774	29.952	-0.001
2543.500	29.315	5.934	5.845	29.315	64.925	4.325	2.737	28.623	-0.001
2544.000	29.219	5.943	5.080	29.219	63.444	4.662	1.591	25.148	0.002
2544.500	29.123	5.955	4.771	29.123	56.293	4.974	1.130	22.047	0.004
2545.000	29.026	5.962	5.340	29.026	48.461	4.917	1.682	19.502	0.005
2545.500	28.929	5.967	6.986	28.929	43.693	4.595	3.000	18.900	0.004
2546.000	28.832	5.972	9.616	28.832	43.428	4.260	4.555	22.864	0.000
2546.500	28.735	5.971	12.119	28.735	46.278	4.020	5.785	24.632	-0.003
2547.000	28.637	5.965	12.238	28.637	50.392	3.930	6.193	22.577	-0.005
2547.500	28.540	5.955	10.136	28.540	54.229	4.036	5.386	21.124	-0.005
2548.000	28.444	5.943	7.802	28.444	55.459	4.308	3.984	24.405	-0.002
2548.500	28.347	5.943	5.958	28.347	51.797	4.643	3.527	29.019	-0.004
2549.000	28.251	5.952	4.855	28.251	45.593	4.909	4.473	30.890	-0.009
2549.500	28.154	5.951	4.608	28.154	41.143	5.018	5.526	25.103	-0.012
2550.000	28.058	5.939	4.979	28.058	39.788	4.984	5.683	18.364	-0.013
2550.500	27.962	5.934	5.273	27.962	39.818	4.875	5.062	19.732	-0.012
2551.000	27.866	5.951	5.031	27.866	39.402	4.706	4.174	28.047	-0.012
2551.500	27.769	5.966	4.307	27.769	36.049	4.514	3.186	31.872	-0.011
2552.000	27.672	5.959	3.494	27.672	30.155	4.380	1.920	30.576	-0.008
2552.500	27.575	5.945	3.181	27.575	26.742	4.311	0.446	32.707	-0.004
2553.000	27.479	5.946	3.791	27.479	30.820	4.270	-0.533	40.347	-0.000
2553.500	27.382	5.951	5.595	27.382	45.133	4.115	-0.009	42.112	0.001
2554.000	27.286	5.945	8.794	27.286	70.672	3.713	2.013	40.734	-0.002
2554.500	27.190	5.933	13.391	27.190	101.387	3.303	4.176	40.594	-0.002
2555.000	27.094	5.931	18.487	27.094	125.273	3.183	5.636	39.007	0.000
2555.500	26.998	5.939	22.444	26.998	135.583	3.222	6.540	31.287	0.003
2556.000	26.901	5.943	24.390	26.901	136.868	3.139	7.057	26.016	0.004
2556.500	26.805	5.949	24.842	26.805	136.051	3.029	7.115	28.154	0.004
2557.000	26.708	5.965	24.831	26.708	134.574	3.089	7.014	31.547	0.005
2557.500	26.611	5.971	24.925	26.611	132.143	3.216	6.976	23.393	0.005
2558.000	26.514	5.963	25.058	26.514	130.590	3.275	7.026	6.707	0.006
2558.500	26.417	5.953	25.192	26.417	131.038	3.352	7.266	-4.802	0.005
2559.000	26.321	5.951	25.147	26.321	132.607	3.487	7.650	-7.722	0.003
2559.500	26.224	5.953	24.973	26.224	134.276	3.487	7.960	-10.829	0.002
2560.000	26.127	5.955	25.681	26.127	136.424	3.279	8.289	-16.602	0.002
2560.500	26.031	5.961	28.289	26.031	146.780	3.205	9.711	-21.433	0.001
2561.000	25.934	5.977	32.227	25.934	182.299	3.451	13.764	-25.576	-0.006
2561.500	25.836	5.988	35.556	25.836	248.910	3.723	19.645	-28.045	-0.017
2562.000	25.738	5.982	34.941	25.738	317.480	3.784	23.959	-26.950	-0.025

2562.500	25.641	5.976	29.480	25.641	335.497	3.709	24.110	-21.637	-0.025
2563.000	25.543	5.982	23.380	25.543	278.177	3.758	19.601	-16.564	-0.018
2563.500	25.446	5.994	19.243	25.446	188.528	3.990	12.348	-13.486	-0.006
2564.000	25.348	6.001	17.591	25.348	130.268	3.959	6.903	-9.793	0.001
2564.500	25.249	5.997	18.501	25.249	116.542	3.578	5.869	-6.050	-0.002
2565.000	25.151	5.987	20.903	25.151	118.752	3.241	6.497	-5.967	-0.006
2565.500	25.054	5.983	22.213	25.054	120.791	3.101	6.660	-6.022	-0.006
2566.000	24.956	5.982	22.165	24.956	122.991	3.113	6.488	2.494	-0.004
2566.500	24.859	5.973	22.076	24.859	124.489	3.230	6.240	16.200	-0.002
2567.000	24.761	5.969	22.367	24.761	123.232	3.390	5.934	19.592	0.002
2567.500	24.664	5.978	22.520	24.664	119.404	3.503	5.755	11.783	0.005
2568.000	24.567	5.992	22.377	24.567	114.587	3.522	5.770	7.230	0.007
2568.500	24.468	6.009	22.225	24.468	110.832	3.428	5.894	9.533	0.007
2569.000	24.370	6.019	22.039	24.370	109.475	3.249	6.043	7.902	0.007
2569.500	24.271	6.007	21.462	24.271	110.919	3.092	5.924	1.980	0.006
2570.000	24.173	5.992	20.744	24.173	113.923	3.123	5.387	-3.526	0.007
2570.500	24.075	5.987	20.796	24.075	117.313	3.384	5.010	-8.092	0.007
2571.000	23.977	5.983	21.720	23.977	119.035	3.669	5.426	-12.713	0.003
2571.500	23.880	5.986	22.509	23.880	118.225	3.753	6.245	-12.525	-0.002
2572.000	23.782	5.997	21.636	23.782	116.370	3.640	6.769	-4.126	-0.004
2572.500	23.684	5.995	18.935	23.684	112.826	3.504	6.576	6.472	-0.004
2573.000	23.586	5.981	15.383	23.586	101.673	3.504	5.181	9.098	-0.003
2573.500	23.488	5.974	12.088	23.488	80.432	3.687	2.447	4.753	0.001
2574.000	23.391	5.984	9.901	23.391	59.509	3.900	-0.446	4.920	0.006
2574.500	23.293	5.994	9.132	23.293	55.157	3.954	-1.092	11.631	0.006
2575.000	23.195	5.996	10.060	23.195	72.841	3.826	1.014	13.861	0.001
2575.500	23.097	5.993	13.051	23.097	103.920	3.596	3.876	10.582	-0.001
2576.000	22.999	6.000	18.072	22.999	135.717	3.373	6.188	14.313	0.002
2576.500	22.901	6.020	24.115	22.901	159.997	3.225	7.848	29.410	0.006
2577.000	22.802	6.043	29.407	22.802	172.865	3.178	8.532	44.026	0.009
2577.500	22.702	6.060	31.249	22.702	174.575	3.294	7.651	50.488	0.015
2578.000	22.602	6.075	30.370	22.602	166.795	3.598	5.882	49.835	0.021
2578.500	22.501	6.075	30.206	22.501	154.523	3.831	5.067	41.976	0.020
2579.000	22.401	6.051	32.424	22.401	142.804	3.664	7.383	26.961	0.010
2579.500	22.301	6.019	38.025	22.301	129.146	3.134	18.204	12.440	-0.019
2580.000	22.203	5.999	47.835	22.203	108.916	2.547	38.186	7.038	-0.062
2580.500	22.105	5.989	60.794	22.105	88.914	2.091	55.221	5.438	-0.082
2581.000	22.007	5.986	66.718	22.007	84.817	1.797	62.844	-6.669	-0.078
2581.500	21.909	6.006	53.229	21.909	102.220	1.708	60.732	-24.648	-0.068
2582.000	21.810	6.058	37.180	21.810	129.021	1.973	49.343	-32.526	-0.053
2582.500	21.710	6.116	27.952	21.710	148.445	2.612	30.799	-30.176	-0.023
2583.000	21.607	6.135	24.226	21.607	154.801	2.923	13.352	-31.598	0.017
2583.500	21.505	6.120	23.862	21.505	152.577	2.959	6.057	-39.242	0.032
2584.000	21.403	6.104	24.519	21.403	148.804	2.997	5.283	-42.980	0.028
2584.500	21.301	6.099	24.694	21.301	148.897	3.029	5.575	-37.761	0.023
2585.000	21.200	6.095	24.493	21.200	153.868	3.195	5.337	-29.044	0.021
2585.500	21.099	6.096	23.996	21.099	159.922	3.541	4.793	-21.123	0.022
2586.000	20.997	6.089	23.438	20.997	162.186	3.839	4.787	-13.537	0.023
2586.500	20.896	6.042	23.495	20.896	159.129	3.862	5.412	-4.853	0.024
2587.000	20.798	5.940	24.022	20.798	152.276	3.619	6.465	5.175	0.028
2587.500	20.702	5.819	23.921	20.702	142.154	3.329	8.334	14.448	0.033
2588.000	20.611	5.722	22.650	20.611	129.315	3.165	11.036	15.889	0.038
2588.500	20.522	5.668	21.129	20.522	116.912	3.012	13.578	6.073	0.045
2589.000	20.435	5.658	20.173	20.435	107.974	2.715	15.061	-7.095	0.054

2589.500	20.347	5.662	19.924	20.347	101.463	2.344	15.666	-14.917	0.063
2590.000	20.260	5.657	19.968	20.260	95.644	2.082	16.058	-18.357	0.067
2590.500	20.173	5.649	20.028	20.173	91.215	2.020	16.462	-20.874	0.068
2591.000	20.086	5.633	19.983	20.086	89.826	2.126	16.767	-24.298	0.066
2591.500	20.000	5.602	19.771	20.000	92.797	2.261	16.844	-28.636	0.062
2592.000	19.914	5.588	19.321	19.914	98.415	2.330	16.695	-32.918	0.061
2592.500	19.829	5.595	18.851	19.829	100.781	2.365	16.677	-37.437	0.060
2593.000	19.743	5.594	18.542	19.743	95.688	2.369	17.092	-42.183	0.058
2593.500	19.658	5.583	18.191	19.658	86.531	2.299	17.528	-41.318	0.056
2594.000	19.573	5.575	17.687	19.573	79.495	2.221	17.492	-36.201	0.056
2594.500	19.489	5.583	17.470	19.489	76.321	2.245	17.175	-34.362	0.058
2595.000	19.403	5.609	18.144	19.403	75.849	2.357	16.866	-33.806	0.062
2595.500	19.317	5.638	19.299	19.317	76.377	2.473	16.501	-32.962	0.064
2596.000	19.231	5.644	19.978	19.231	75.147	2.587	16.010	-34.851	0.065
2596.500	19.144	5.630	20.048	19.144	71.758	2.629	15.672	-36.209	0.064
2597.000	19.057	5.626	19.671	19.057	68.513	2.511	16.025	-32.441	0.061
2597.500	18.971	5.625	19.012	18.971	66.502	2.345	17.062	-30.782	0.059
2598.000	18.885	5.608	18.328	18.885	65.632	2.252	17.931	-34.947	0.059
2598.500	18.799	5.591	18.134	18.799	65.418	2.214	18.105	-37.483	0.061
2599.000	18.714	5.589	18.382	18.714	65.690	2.192	17.915	-35.436	0.062
2599.500	18.629	5.588	18.516	18.629	66.846	2.197	17.825	-26.188	0.058
2600.000	18.544	5.582	18.186	18.544	68.867	2.201	17.925	-9.681	0.052
2600.500	18.459	5.594	17.957	18.459	69.776	2.191	18.006	0.072	0.045
2601.000	18.373	5.620	18.199	18.373	68.794	2.214	17.929	-10.499	0.042
2601.500	18.287	5.631	18.402	18.287	66.470	2.276	17.883	-27.218	0.042
2602.000	18.201	5.613	18.407	18.201	64.923	2.302	17.992	-31.522	0.044
2602.500	18.115	5.588	18.838	18.115	65.189	2.271	18.075	-28.954	0.047
2603.000	18.030	5.578	19.659	18.030	65.901	2.225	18.020	-28.426	0.052
2603.500	17.945	5.583	20.106	17.945	65.221	2.196	17.884	-28.670	0.056
2604.000	17.860	5.596	20.028	17.860	64.276	2.221	17.840	-27.576	0.057
2604.500	17.774	5.604	19.875	17.774	64.536	2.312	18.189	-26.345	0.055
2605.000	17.689	5.603	19.460	17.689	65.059	2.400	19.001	-25.200	0.051
2605.500	17.603	5.608	18.754	17.603	65.243	2.394	19.821	-25.505	0.047
2606.000	17.517	5.620	18.303	17.517	66.113	2.286	19.955	-26.857	0.049
2606.500	17.431	5.620	18.163	17.431	69.639	2.161	19.205	-28.946	0.054
2607.000	17.345	5.602	18.004	17.345	75.357	2.110	18.160	-32.467	0.056
2607.500	17.260	5.590	17.917	17.260	79.830	2.145	17.474	-36.896	0.053
2608.000	17.174	5.602	18.161	17.174	81.433	2.193	17.077	-40.498	0.047
2608.500	17.089	5.627	18.413	17.089	83.055	2.198	16.525	-42.659	0.044
2609.000	17.002	5.640	18.400	17.002	85.459	2.183	15.662	-45.338	0.046
2609.500	16.915	5.627	18.427	16.915	84.751	2.212	14.891	-47.308	0.052
2610.000	16.829	5.599	18.664	16.829	79.711	2.245	14.954	-43.820	0.056
2610.500	16.744	5.579	19.010	16.744	75.371	2.199	15.955	-36.571	0.055
2611.000	16.659	5.574	19.206	16.659	76.571	2.152	17.119	-32.303	0.052
2611.500	16.574	5.582	19.391	16.574	81.823	2.227	18.002	-31.031	0.049
2612.000	16.489	5.593	20.078	16.489	84.821	2.359	18.768	-27.527	0.048
2612.500	16.404	5.595	20.604	16.404	81.232	2.378	19.295	-24.149	0.049
2613.000	16.319	5.595	19.904	16.319	74.669	2.293	19.088	-25.080	0.054
2613.500	16.233	5.611	18.853	16.233	72.119	2.253	18.075	-25.397	0.058
2614.000	16.147	5.633	18.484	16.147	74.569	2.309	16.783	-22.010	0.060
2614.500	16.061	5.633	18.631	16.061	76.310	2.400	15.704	-22.475	0.057
2615.000	15.974	5.614	18.853	15.974	75.908	2.520	14.817	-28.125	0.054
2615.500	15.888	5.603	19.056	15.888	77.598	2.681	14.036	-30.765	0.054
2616.000	15.803	5.608	19.073	15.803	83.504	2.754	13.803	-30.337	0.054

2616.500	15.717	5.617	18.816	15.717	88.843	2.707	14.352	-30.458	0.052
2617.000	15.631	5.618	18.523	15.631	88.702	2.661	15.188	-30.587	0.050
2617.500	15.545	5.610	18.302	15.545	84.453	2.636	15.977	-29.975	0.049
2618.000	15.459	5.601	18.262	15.459	81.350	2.573	16.778	-30.278	0.046
2618.500	15.373	5.596	18.523	15.373	80.722	2.516	17.146	-32.925	0.040
2619.000	15.288	5.589	18.931	15.288	79.973	2.496	16.518	-38.041	0.038
2619.500	15.203	5.582	19.296	15.203	78.699	2.397	15.477	-42.224	0.040
2620.000	15.118	5.584	19.445	15.118	78.679	2.245	15.134	-43.666	0.042
2620.500	15.033	5.592	19.288	15.033	79.724	2.239	15.345	-43.291	0.044
2621.000	14.948	5.601	18.787	14.948	78.679	2.347	15.425	-41.629	0.047
2621.500	14.862	5.605	18.056	14.862	74.848	2.319	15.520	-39.118	0.047
2622.000	14.776	5.612	17.625	14.776	71.951	2.162	15.955	-36.438	0.043
2622.500	14.690	5.624	18.132	14.690	73.287	2.055	16.570	-32.963	0.037
2623.000	14.604	5.629	19.033	14.604	76.798	2.010	17.111	-28.459	0.032
2623.500	14.518	5.615	19.330	14.518	79.240	2.005	17.360	-25.772	0.030
2624.000	14.432	5.595	19.343	14.432	78.954	2.118	16.803	-28.278	0.033
2624.500	14.347	5.580	19.876	14.347	76.373	2.436	15.078	-34.130	0.039
2625.000	14.262	5.580	20.575	14.262	72.165	2.765	13.171	-36.136	0.045
2625.500	14.177	5.595	20.257	14.177	68.798	2.663	13.094	-32.961	0.043
2626.000	14.091	5.615	18.864	14.091	68.153	2.277	14.779	-31.211	0.037
2626.500	14.005	5.625	17.534	14.005	69.497	2.044	16.106	-35.896	0.037
2627.000	13.919	5.627	17.193	13.919	71.090	2.100	16.416	-42.283	0.041
2627.500	13.832	5.620	17.798	13.832	71.801	2.328	16.545	-43.335	0.042
2628.000	13.746	5.602	18.415	13.746	70.731	2.527	16.781	-38.573	0.039
2628.500	13.661	5.591	18.362	13.661	69.586	2.575	16.688	-34.538	0.037
2629.000	13.576	5.599	17.958	13.576	69.833	2.517	16.162	-35.008	0.040
2629.500	13.490	5.613	17.655	13.490	69.725	2.466	15.610	-38.763	0.044
2630.000	13.404	5.622	17.303	13.404	67.955	2.432	15.195	-43.025	0.049
2630.500	13.318	5.622	16.747	13.318	66.031	2.346	14.690	-45.985	0.055
2631.000	13.232	5.615	16.278	13.232	67.399	2.250	14.041	-47.108	0.061
2631.500	13.146	5.606	16.325	13.146	72.288	2.242	13.593	-46.256	0.065
2632.000	13.060	5.604	16.793	13.060	74.452	2.317	13.407	-46.210	0.066
2632.500	12.975	5.604	16.717	12.975	70.648	2.396	12.904	-49.154	0.065
2633.000	12.889	5.605	15.586	12.889	65.028	2.437	11.660	-51.374	0.064
2633.500	12.803	5.609	14.258	12.803	60.900	2.455	9.962	-48.990	0.062
2634.000	12.717	5.617	13.545	12.717	58.105	2.538	8.176	-45.637	0.058
2634.500	12.631	5.623	13.612	12.631	57.436	2.764	6.444	-41.800	0.052
2635.000	12.545	5.633	14.367	12.545	59.485	3.089	4.895	-36.096	0.043
2635.500	12.458	5.647	15.421	12.458	61.829	3.515	3.102	-31.826	0.034
2636.000	12.371	5.653	16.111	12.371	62.686	4.064	0.776	-32.263	0.026
2636.500	12.284	5.652	15.415	12.284	64.272	4.440	-0.899	-33.282	0.018
2637.000	12.197	5.657	12.860	12.197	66.823	4.392	-1.428	-29.072	0.008
2637.500	12.110	5.662	10.426	12.110	65.231	4.210	-2.400	-21.242	0.006
2638.000	12.022	5.667	9.776	12.022	59.383	4.146	-3.983	-17.419	0.010
2638.500	11.935	5.669	11.252	11.935	63.056	4.136	-3.752	-14.904	0.009
2639.000	11.847	5.665	14.733	11.847	93.119	4.089	0.121	-0.965	-0.001
2639.500	11.760	5.655	20.087	11.760	149.986	3.938	6.178	18.877	-0.009
2640.000	11.672	5.651	27.153	11.672	212.384	3.704	12.112	26.334	-0.011
2640.500	11.585	5.657	33.408	11.585	257.794	3.516	16.657	19.282	-0.011
2641.000	11.498	5.664	35.725	11.498	281.364	3.476	19.549	10.313	-0.010
2641.500	11.410	5.658	37.245	11.410	289.546	3.559	20.791	2.447	-0.009
2642.000	11.323	5.646	39.790	11.323	288.830	3.560	21.652	-3.618	-0.007
2642.500	11.236	5.647	43.373	11.236	281.724	3.255	26.527	-7.145	-0.013
2643.000	11.149	5.666	45.739	11.149	259.006	2.762	37.073	-6.258	-0.028

2643.500	11.062	5.677	45.276	11.062	211.066	2.255	46.174	-4.240	-0.036
2644.000	10.974	5.659	40.353	10.974	153.757	1.838	48.034	-5.594	-0.032
2644.500	10.887	5.637	31.650	10.887	114.512	1.677	41.125	-10.107	-0.021
2645.000	10.800	5.638	25.223	10.800	100.365	2.173	26.326	-13.359	-0.002
2645.500	10.713	5.658	22.170	10.713	102.869	3.235	9.339	-19.619	0.029
2646.000	10.626	5.681	21.532	10.626	114.920	3.767	0.916	-28.377	0.032
2646.500	10.538	5.695	22.592	10.538	130.945	3.985	-0.294	-27.758	0.019
2647.000	10.449	5.683	25.107	10.449	145.041	4.111	0.235	-15.878	0.009
2647.500	10.361	5.660	27.513	10.361	152.746	4.121	1.186	-2.703	0.002
2648.000	10.274	5.651	27.789	10.274	155.038	4.031	2.091	7.568	-0.003
2648.500	10.187	5.651	27.407	10.187	158.705	3.887	2.531	16.099	-0.004
2649.000	10.100	5.643	27.356	10.100	167.539	3.697	2.773	18.396	-0.003
2649.500	10.013	5.630	26.782	10.013	174.352	3.510	3.339	11.500	-0.003
2650.000	9.927	5.620	25.590	9.927	166.585	3.573	3.869	3.154	-0.003
2650.500	9.841	5.612	23.601	9.841	143.897	4.011	4.016	0.458	-0.002
2651.000	9.755	5.612	21.224	9.755	123.734	4.408	4.160	0.973	-0.002
2651.500	9.669	5.610	19.974	9.669	119.975	4.286	4.487	-2.238	0.000
2652.000	9.583	5.588	20.057	9.583	124.254	3.861	4.867	-5.922	0.009
2652.500	9.498	5.540	19.957	9.498	124.160	3.454	6.064	-3.841	0.021
2653.000	9.415	5.495	19.488	9.415	119.807	3.133	8.926	0.000	0.027
2653.500	9.333	5.475	19.554	9.333	118.307	2.898	12.577	2.452	0.027
2654.000	9.251	5.467	20.029	9.251	121.211	2.729	14.930	5.571	0.029
2654.500	9.170	5.458	20.550	9.170	122.640	2.620	15.122	8.333	0.035
2655.000	9.089	5.455	21.402	9.089	117.029	2.535	14.693	2.964	0.041
2655.500	9.007	5.457	22.190	9.007	106.820	2.417	15.333	-6.282	0.041
2656.000	8.926	5.455	22.216	8.926	101.293	2.325	16.079	-12.018	0.040
2656.500	8.845	5.456	22.192	8.845	103.410	2.374	15.467	-17.692	0.044
2657.000	8.764	5.469	22.707	8.764	106.190	2.540	14.021	-28.004	0.047
2657.500	8.682	5.480	23.142	8.682	103.097	2.659	13.177	-35.914	0.047
2658.000	8.600	5.475	22.568	8.600	96.571	2.648	13.461	-35.183	0.045
2658.500	8.519	5.458	21.447	8.519	91.766	2.589	14.479	-30.866	0.043
2659.000	8.438	5.446	20.341	8.438	90.078	2.545	15.822	-27.496	0.042
2659.500	8.357	5.441	19.362	8.357	89.740	2.504	17.244	-26.994	0.040
2660.000	8.276	5.441	19.030	8.276	88.804	2.481	18.471	-28.768	0.037
2660.500	8.195	5.439	19.646	8.195	88.556	2.514	19.144	-28.207	0.034
2661.000	8.115	5.443	20.592	8.115	91.088	2.596	18.844	-25.549	0.033
2661.500	8.034	5.454	21.591	8.034	95.134	2.690	17.430	-22.703	0.035
2662.000	7.953	5.462	22.529	7.953	99.202	2.746	15.578	-19.808	0.037
2662.500	7.871	5.465	22.922	7.871	104.361	2.778	14.233	-18.500	0.037
2663.000	7.790	5.472	23.169	7.790	112.502	2.907	13.445	-21.956	0.036
2663.500	7.708	5.478	24.263	7.708	121.408	3.087	12.710	-26.576	0.036
2664.000	7.626	5.477	25.317	7.626	126.812	3.076	11.721	-25.421	0.040
2664.500	7.544	5.467	25.145	7.544	128.017	2.936	10.384	-17.123	0.047
2665.000	7.463	5.454	24.606	7.463	129.370	2.955	8.942	-7.407	0.056
2665.500	7.382	5.451	24.986	7.382	133.199	3.172	7.944	0.482	0.062
2666.000	7.301	5.464	26.188	7.301	137.550	3.422	7.714	8.005	0.061
2666.500	7.219	5.475	27.088	7.219	141.052	3.605	8.098	11.071	0.057
2667.000	7.138	5.470	27.114	7.138	143.614	3.687	8.799	4.430	0.054
2667.500	7.056	5.463	26.855	7.056	143.767	3.614	9.407	-5.987	0.054
2668.000	6.975	5.465	26.666	6.975	141.770	3.425	9.351	-8.277	0.059
2668.500	6.893	5.473	25.998	6.893	140.153	3.263	8.537	-0.706	0.068
2669.000	6.811	5.487	24.694	6.811	138.894	3.179	7.664	5.894	0.074
2669.500	6.729	5.491	23.976	6.729	137.974	3.096	7.282	6.775	0.077
2670.000	6.647	5.473	24.149	6.647	139.054	2.993	7.239	6.692	0.078

2670.500	6.566	5.450	24.691	6.566	141.004	2.983	7.345	7.516	0.077
2671.000	6.485	5.441	25.778	6.485	140.385	3.146	7.603	3.839	0.075
2671.500	6.404	5.447	26.798	6.404	138.360	3.392	7.873	-1.229	0.072
2672.000	6.323	5.456	26.468	6.323	138.761	3.542	8.033	-1.044	0.072
2672.500	6.242	5.464	25.378	6.242	141.745	3.550	8.163	4.323	0.073
2673.000	6.160	5.469	24.583	6.160	143.691	3.544	8.315	6.713	0.075
2673.500	6.079	5.462	24.141	6.079	143.049	3.581	8.441	6.355	0.077
2674.000	5.997	5.452	24.077	5.997	140.988	3.558	8.404	9.466	0.079
2674.500	5.916	5.446	24.476	5.916	139.210	3.407	7.935	14.673	0.082
2675.000	5.836	5.444	25.095	5.836	140.116	3.254	7.085	15.620	0.087
2675.500	5.755	5.441	25.670	5.755	143.535	3.224	6.403	12.801	0.089
2676.000	5.674	5.451	25.752	5.674	146.699	3.259	6.238	15.375	0.089
2676.500	5.593	5.475	25.617	5.593	148.421	3.266	6.481	22.902	0.087
2677.000	5.511	5.487	26.005	5.511	148.384	3.302	6.757	23.329	0.084
2677.500	5.429	5.469	27.240	5.429	146.863	3.477	6.666	14.485	0.085
2678.000	5.347	5.448	29.040	5.347	145.246	3.751	6.290	8.306	0.087
2678.500	5.267	5.443	30.083	5.267	145.196	3.832	6.051	6.527	0.088
2679.000	5.186	5.448	29.341	5.186	146.029	3.573	5.804	2.660	0.091
2679.500	5.105	5.457	27.924	5.105	147.823	3.261	5.203	-1.098	0.098
2680.000	5.024	5.455	27.913	5.024	150.684	3.165	4.537	0.138	0.107
2680.500	4.942	5.445	29.311	4.942	154.804	3.246	4.345	2.510	0.111
2681.000	4.862	5.448	29.987	4.862	159.162	3.371	4.660	1.668	0.109
2681.500	4.781	5.463	29.349	4.781	161.453	3.413	4.938	1.083	0.104
2682.000	4.699	5.463	29.485	4.699	162.154	3.318	4.744	2.553	0.100
2682.500	4.618	5.451	30.905	4.618	164.938	3.257	4.398	4.189	0.099
2683.000	4.537	5.452	32.362	4.537	170.100	3.371	4.555	5.391	0.098
2683.500	4.456	5.471	32.943	4.456	173.748	3.562	4.991	7.711	0.097
2684.000	4.374	5.482	32.714	4.374	174.470	3.742	5.043	9.648	0.098
2684.500	4.292	5.477	32.232	4.292	174.746	3.889	4.544	10.364	0.100
2685.000	4.210	5.476	32.203	4.210	174.096	3.977	3.381	9.014	0.102
2685.500	4.128	5.476	32.857	4.128	170.896	4.099	1.552	8.112	0.107
2686.000	4.047	5.466	34.095	4.047	167.931	4.231	0.370	7.921	0.114
2686.500	3.965	5.458	35.215	3.965	169.597	4.189	1.267	5.713	0.117
2687.000	3.884	5.456	34.724	3.884	174.131	3.981	3.221	1.945	0.118
2687.500	3.803	5.448	33.324	3.803	176.605	3.704	4.384	2.903	0.123
2688.000	3.722	5.438	32.498	3.722	175.848	3.480	4.184	8.353	0.129
2688.500	3.641	5.439	32.608	3.641	171.839	3.453	3.076	11.810	0.134
2689.000	3.561	5.448	33.573	3.561	165.294	3.655	1.654	10.247	0.137
2689.500	3.480	5.466	34.537	3.480	160.355	3.958	0.548	5.048	0.138
2690.000	3.398	5.486	34.273	3.398	161.046	4.149	0.546	-0.607	0.136
2690.500	3.316	5.485	33.739	3.316	164.484	4.131	1.938	-4.422	0.134
2691.000	3.234	5.465	34.429	3.234	166.135	3.948	4.264	-6.230	0.132
2691.500	3.153	5.453	34.789	3.153	166.533	3.672	6.965	-2.656	0.130
2692.000	3.072	5.462	34.107	3.072	167.458	3.398	9.017	5.536	0.126
2692.500	2.990	5.474	34.015	2.990	168.009	3.293	8.913	13.194	0.128
2693.000	2.908	5.470	34.783	2.908	167.863	3.444	6.782	16.926	0.139
2693.500	2.827	5.450	35.018	2.827	167.055	3.680	6.240	23.791	0.144
2694.000	2.746	5.435	33.864	2.746	165.979	3.758	9.768	28.650	0.129
2694.500	2.665	5.432	30.626	2.665	-999.250	3.656	13.211	24.939	0.117
2695.000	2.585	5.442	26.489	2.585	-999.250	3.469	12.445	15.722	0.123
2695.500	2.504	5.463	23.166	2.504	-999.250	3.303	8.102	15.513	0.143
2696.000	2.423	5.475	21.282	2.423	-999.250	3.206	4.010	20.623	0.157
2696.500	2.341	5.461	20.532	2.341	-999.250	3.210	2.805	22.644	0.156
2697.000	2.260	5.444	20.273	2.260	-999.250	3.283	3.624	16.575	0.149

2697.500	2.179	5.450	20.020	2.179	-999.250	3.294	4.866	15.652	0.145
2698.000	2.098	5.464	19.728	2.098	-999.250	3.255	5.976	24.631	0.145
2698.500	2.016	5.459	19.492	2.016	-999.250	3.245	6.838	33.510	0.146
2699.000	1.935	5.444	19.516	1.935	-999.250	3.255	6.923	36.959	0.151
2699.500	1.854	5.446	19.718	1.854	-999.250	3.265	5.962	39.067	0.159
2700.000	1.773	5.462	19.971	1.773	-999.250	3.283	4.799	37.930	0.167
2700.500	1.692	5.467	20.446	1.692	-999.250	3.253	4.357	30.687	0.171
2701.000	1.610	5.457	-999.250	1.610	-999.250	3.156	4.357	27.308	0.172
2701.500	1.529	5.442	-999.250	1.529	-999.250	3.081	4.417	28.998	0.174
2702.000	1.449	5.437	-999.250	1.449	-999.250	3.107	5.028	26.511	0.172
2702.500	1.368	5.446	-999.250	1.368	-999.250	3.193	6.646	19.991	0.163
2703.000	1.287	5.453	-999.250	1.287	-999.250	3.251	8.643	20.296	0.150
2703.500	1.206	5.452	-999.250	1.206	-999.250	3.236	9.883	26.336	0.142
2704.000	1.125	5.458	-999.250	1.125	-999.250	3.212	9.855	30.483	0.143
2704.500	1.044	5.477	-999.250	1.044	-999.250	3.265	8.816	31.206	0.150
2705.000	0.962	5.491	-999.250	0.962	-999.250	3.368	7.423	30.223	0.159
2705.500	0.879	5.490	-999.250	0.879	-999.250	3.426	6.365	30.431	0.166
2706.000	0.797	5.488	-999.250	0.797	-999.250	3.435	5.809	34.842	0.171
2706.500	0.715	5.494	-999.250	0.715	-999.250	3.438	5.571	36.028	0.176
2707.000	0.633	5.472	-999.250	0.633	-999.250	3.442	5.659	32.168	0.176
2707.500	0.552	5.385	-999.250	0.552	-999.250	3.421	5.868	28.348	0.172
2708.000	0.473	5.280	-999.250	0.473	-999.250	3.384	5.844	23.601	0.166
2708.500	0.398	5.225	-999.250	0.398	-999.250	3.361	5.929	19.581	0.161
2709.000	0.324	5.210	-999.250	0.324	-999.250	3.313	6.626	125.587	0.155
2709.500	0.250	5.202	-999.250	0.250	-999.250	3.283	7.507	458.048	0.152
2710.000	0.176	5.193	-999.250	0.176	-999.250	3.387	7.949	870.667	0.152
2710.500	0.102	-999.250	-999.250	0.102	-999.250	-999.250	7.915	1093.830	0.156
2711.000	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	1065.229	-999.250
2711.500	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	914.773	-999.250
2712.000	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	728.451	-999.250
2712.500	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	541.830	-999.250
2713.000	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	361.327	-999.250
2713.500	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	219.313	-999.250
2714.000	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	145.808	-999.250
2714.500	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	124.142	-999.250
2715.000	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	119.543	-999.250
2715.500	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250
2716.000	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250
2716.500	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250	-999.250