Abbreviations: D_H: average hydrodynamic diameter; Fe_3O_4 (magnetite); RGO (reduced graphene oxide); SRHA (Suwannee River humic acid); TiO_2 (titanium dioxide); ZnO (zinc oxide).

Table 1. Electrokinetic properties and hydrodynamic sizes of RGO—metal oxide (RGO-Fe_3O_4, RGO-TiO_2, and RGO-ZnO) nanohybrids in the influent suspensions; and mass recoveries of the nanohybrids in column experiments for different solution chemistries.

Type	NaCl (mM)	$CaCl_2$ (mM)	SRHA (mg C/L)	ζ-potential (mV)	D_H (nm)	Mass recovery (%)		
						M_{eff}	M_{ret}	M_{tot}
RGO-Fe_3O_4	1	0	0	–36.0±4.7	1075±46	89.9±2.0	10.1±2.0	100±0.02
	10	0	0	–28.3±3.7	1146±34	74.0±2.7	25.4±1.7	99.4±0.94
	50	0	0	–26.3±4.4	1178±24	67.9±1.7	32.4±2.1	100±0.45
	100	0	0	–23.9±3.6	1363±37	64.8±1.5	35.5±1.9	100±0.39
	0	0.5	0	–18.5±3.0	1386±58	64.9±3.3	36.7±2.9	102±0.37
	0	1	0	–14.6±3.0	1443±25	60.9±2.4	38.9±2.0	99.8±0.38
	0	5	0	–12.8±3.0	1488±6	50.5±0.12	49.5±0.14	100±0.02
	0	10	0	–7.5±1.2	1552±42	45.6±0.80	54.4±0.81	100±0.01
	10	0	1	–45.9±2.4	888±163	76.9±0.88	23.1±0.95	100±0.06
	10	0	5	–48.6±4.5	866±86	90.8±2.6	11.3±2.9	102±0.25
	10	0	10	–52.7±2.6	851±74	94.8±1.2	5.4±1.2	100±0.04
RGO-TiO_2	1	0	1	–47.4±3.0	247±67	85.5±2.8	14.7±1.9	100±0.87
	10	0	1	–45.8±2.7	293±107	38.2±0.41	67.3±0.89	106±0.47
	50	0	1	–39.8±2.3	398±117	14.5±1.0	85.4±1.1	99.9±0.10
	100	0	1	–37.2±2.3	446±139	10.0±0.13	90.7±0.90	101±1.0
	0	0.5	1	–20.7±1.2	331±137	53.9±2.4	48.5±1.7	102±0.67
	0	1	1	–19.6±1.2	391±183	10.0±0.35	90.3±0.91	100±0.56
	0	5	1	–0.22±0.23	531±120	6.3±0.21	94.1±0.13	100±0.19
	0	10	1	–0.14±0.11	562±126	5.2±0.26	95.1±0.47	100±0.21
	10	0	0	–18.8±0.86	481±143	2.0±0.49	98.0±0.41	100±0.08
	10	0	5	–48.4±3.1	271±67	84.6±0.47	15.4±0.30	100±0.17
	10	0	10	–51.3±2.2	250±48	90.3±0.90	9.8±0.89	100±0.01
RGO-ZnO	1	0	5	–35.4±3.1	2663±260	92.8±1.4	7.0±1.7	99.8±0.31
	10	0	5	–32.8±2.4	3171±280	85.5±1.4	14.7±1.3	100±0.10
	50	0	5	–30.9±0.42	3287±185	76.6±3.5	23.3±3.3	99.9±0.18
	100	0	5	–27.8±2.3	3485±132	73.5±4.3	26.5±3.9	100±0.42
	0	0.5	5	–17.8±2.0	3311±173	78.6±1.8	21.4±0.59	100±1.2
	0	1	5	–16.0±1.4	3591±142	67.4±1.3	32.7±1.4	100±0.08
	0	5	5	–15.2±0.94	3712±188	41.1±0.37	58.6±0.05	99.7±0.32
	0	10	5	–9.2±1.4	3970±135	30.0±2.0	69.4±1.8	99.3±0.28
	10	0	0	–19.7±1.7	5328±348	2.4±0.02	102±0.10	104±0.11
	10	0	1	–27.8±4.1	2500±263	68.4±1.4	31.2±1.3	99.6±0.15
	10	0	10	–35.0±2.2	2259±139	92.2±0.06	7.8±0.03	100±0.03

SRHA: Suwannee River humic acid; ζ-potential: zeta potential; D_H: average hydrodynamic diameter; and M_{eff}, M_{ret}, and M_{tot} are mass percentages of nanohybrids recovered from effluent, retentate, and total column, respectively. Mean values ± standard deviations are reported.

Figure 1. Representative high-resolution transmission electron microscope images of RGO-Fe_3O_4 (a), RGO-TiO_2 (b), and RGO-ZnO nanohybrids (c); and corresponding mapping of individual elements (C, O, Fe, Ti, and Zn) and conjugated nanohybrids using high-angle annular dark-field (HAADF) imaging technique.

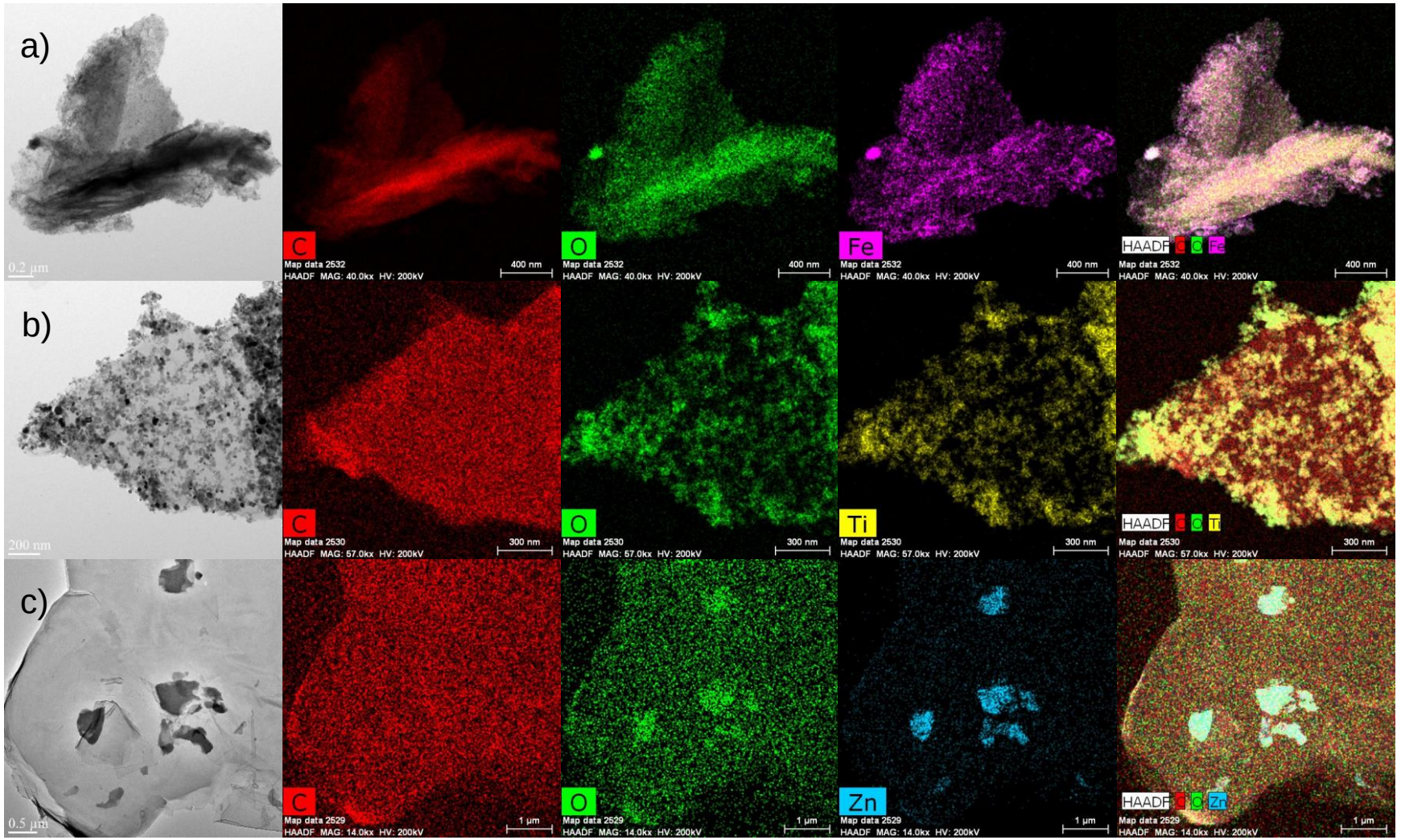

Figure 2. Observed (dots) and fitted (lines) breakthrough curves (a, c, and e) and retention profiles (b, d, and f) of RGO-Fe_3O_4 (a−b; no SRHA), RGO-TiO_2 (c−d; in 1 mg C/L SRHA), and RGO-ZnO nanohybrids (e−f; in 5 mg C/L SRHA) in water-saturated sand columns under 1 mM NaCl (pH=7.0−7.5) via inverse-fitting. Breakthrough curve describes the normalized effluent concentration of nanohybrids, C/C_o (where C_o is the initial influent concentration of nanohybrids) as a function of pore volume; and retention profile shows the normalized solid-phase retention concentration of nanohybrids, S/C_o (where S is retention amount of nanohybrids per gram dry sand) as a function of distance from the column inlet. Six particle transport models (M1−M6) based on the one-dimensional convection-dispersion equation (CDE) were used to simulate the breakthrough curves and retention profiles simultaneously including: classical colloid filtration theory model (M1), Langmuirian attachment model (M2), depth-dependent retention model (M3), time- and depth-dependent retention model (M4), two-site kinetic retention model with Langmuirian attachment on one site (M5), and two-site kinetic retention model with depth-dependent retention on one site (M6). Models 1 to 4 (M1−M4) are one site kinetic retention models (particle retention occurs on one type of site; Site 1); whereas, models 5 and 6 (M5−M6) are two site kinetic retention models with two different types of retention sites (Site 1 and Site 2, respectively). Column experiments were performed in water-saturated sands having an average grain size of 360-µm at a Darcy velocity of 0.441 cm min^{-1}. The error bars represent the standard deviations between duplicate experiments (n = 2).

Data for Figure 2a – RGO-Fe_3O_4								
Pore volume	C/C_o							
	Obs	Obs_STD	M1	M2	M3	M4	M5	M6
0.5	0.0132	0.008	1.68E-04	2.93E-05	1.68E-04	1.64E-04	3.00E-05	3.42E-06
1	0.12926	0.05789	0.49866	0.08207	0.49953	0.48106	0.11948	0.20116
1.5	0.86769	0.06094	0.88754	0.82508	0.88964	0.86431	0.84564	0.83239
2	0.90135	0.04151	0.8963	0.99855	0.89845	0.88689	0.92497	0.90276
2.5	0.91104	0.02628	0.89633	1	0.89849	0.89904	0.95124	0.90405
3	0.91751	0.01028	0.89633	1	0.89849	0.90942	0.96827	0.90406
3.5	0.90862	0.00533	0.89616	0.99983	0.89832	0.91825	0.97919	0.90406
4	0.67217	0.06779	0.39767	0.45181	0.39896	0.41234	0.50516	0.70199
4.5	0.01993	0.01676	0.00879	0.01049	0.00885	0.00927	0.10391	0.07153
5	0.01373	0.00571	3.64E-05	4.58E-05	3.67E-05	3.90E-05	0.06274	0.00132
5.5	0.00969	0.00229	7.19E-08	9.57E-08	7.30E-08	7.83E-08	0.04088	1.07E-05
6	0.00943	0.00419	9.81E-11	1.38E-10	1.00E-10	1.09E-10	0.02664	5.70E-08
6.5	0.00592	0.00229	1.09E-13	1.62E-13	1.12E-13	1.23E-13	0.01735	2.39E-10
7	0.00592	7.62E-04	1.06E-16	1.67E-16	1.10E-16	1.22E-16	0.01129	8.98E-13
7.5	0.00323	0.00229	9.60E-20	1.60E-19	1.00E-19	1.12E-19	0.00735	3.31E-15
8	0.00296	0.0019	2.66E-23	1.47E-22	2.81E-23	1.02E-22	0.00478	1.22E-17
8.5	0.00135	0.0019	5.03E-23	4.40E-23	5.27E-23	1.45E-23	0.00311	4.39E-20
9	0.00135	3.81E-04	3.15E-23	5.53E-23	3.36E-23	3.20E-23	0.00202	1.41E-19
9.5	2.69E-04	3.81E-04	2.19E-22	2.46E-22	2.57E-22	1.72E-22	0.00131	3.73E-20
10	0.00189	0.00114	1.10E-21	2.07E-21	1.39E-21	9.33E-22	8.53E-04	7.51E-21

Data for Figure 2b – RGO-Fe_3O_4	
Depth	S/C_o (cm^3/g)

	Obs	Obs_STD	M1	M2	M3	M4	M5	M6
0.5	0.1358	0.00636	0.08264	0.07676	0.16571	0.13407	0.06123	0.15628
1.5	0.10342	0.0089	0.08174	0.07676	0.10348	0.10289	0.06287	0.09768
2.5	0.08724	0.00127	0.08084	0.07676	0.08232	0.08814	0.06464	0.07776
3.5	0.07824	0.00636	0.07996	0.07676	0.07057	0.07877	0.06652	0.06671
4.5	0.07195	0.01017	0.07908	0.07676	0.06279	0.07204	0.06852	0.05942
5.5	0.06565	0.01145	0.07822	0.07676	0.05713	0.06686	0.07065	0.05427
6.5	0.06205	0.01653	0.07736	0.07676	0.05276	0.06268	0.07288	0.05081
7.5	0.05756	0.02289	0.0765	0.07676	0.04924	0.0592	0.07521	0.04933
8.5	0.05576	0.02289	0.0756	0.07676	0.0463	0.05621	0.07757	0.05051
9.5	0.05306	0.02162	0.07462	0.07676	0.04376	0.05356	0.07985	0.05442

Data for Figure 2c – RGO-TiO_2								
Pore volume	C/C_o							
	Obs	Obs_STD	M1	M2	M3	M4	M5	M6
0.5	0.01185	0.00197	1.63E-04	6.01E-05	1.68E-04	1.35E-04	2.54E-06	8.62E-06
1	0.05424	0.0248	0.47217	0.12027	0.49953	0.36211	0.09088	0.09592
1.5	0.47616	0.05157	0.83371	0.48261	0.88964	0.71988	0.47474	0.62711
2	0.81737	0.02595	0.84162	0.85831	0.89845	0.82013	0.79658	0.85361
2.5	0.92108	0.02053	0.84165	0.97865	0.89849	0.88207	0.94717	0.87718
3	0.95255	0.01577	0.84165	0.99729	0.89849	0.92247	0.98858	0.8783
3.5	0.96881	0.01347	0.84148	0.99949	0.89832	0.9487	0.99765	0.87832
4	0.75651	0.01314	0.36948	0.45178	0.39896	0.43267	0.76456	0.78229
4.5	0.07828	0.00296	0.00794	0.01049	0.00885	0.00993	0.07424	0.25107
5	0.02601	6.57E-04	3.18E-05	4.58E-05	3.67E-05	4.27E-05	0.00137	0.0247
5.5	0.01893	0.00214	6.10E-08	9.57E-08	7.30E-08	8.77E-08	1.21E-05	1.15E-03
6	0.0151	0.00131	8.06E-11	1.38E-10	1.00E-10	1.24E-10	7.65E-08	3.38E-05
6.5	0.01173	1.64E-04	8.65E-14	1.62E-13	1.12E-13	1.43E-13	6.63E-10	7.39E-07
7	0.01173	8.21E-04	8.20E-17	1.67E-16	1.10E-16	1.46E-16	1.08E-11	1.33E-08
7.5	0.00917	0.00115	7.16E-20	1.60E-19	1.00E-19	1.37E-19	1.45E-13	2.07E-10
8	0	0	5.83E-23	1.47E-22	2.81E-23	1.25E-22	1.56E-15	2.92E-12
8.5	0	0	5.47E-23	4.40E-23	5.27E-23	3.86E-23	1.59E-17	3.84E-14
9	0	0.00E+00	3.92E-23	5.98E-23	3.36E-23	5.11E-23	1.65E-19	4.77E-16
9.5	0.00E+00	0.00E+00	3.52E-22	2.46E-22	2.57E-22	1.36E-22	1.33E-20	5.67E-18
10	0	0	1.94E-21	2.03E-21	1.39E-21	1.26E-21	3.02E-21	6.52E-20

Data for Figure 2d – RGO-TiO_2								
Depth	S/C_o (cm^3/g)							
	Obs	Obs_STD	M1	M2	M3	M4	M5	M6
0.5	0.13056	0.01173	0.12977	0.13474	0.16571	0.12275	0.10922	0.20005
1.5	0.12669	0.01171	0.12755	0.13474	0.10348	0.12134	0.10922	0.1245
2.5	0.12206	0.01168	0.12535	0.13474	0.08232	0.11906	0.10922	0.09883
3.5	0.11665	0.01164	0.1232	0.13474	0.07057	0.11649	0.10922	0.08481
4.5	0.11125	0.01379	0.12109	0.13474	0.06279	0.11385	0.10926	0.0764
5.5	0.10739	0.01159	0.11901	0.13474	0.05713	0.11123	0.10943	0.07254
6.5	0.10507	0.01157	0.11695	0.13474	0.05276	0.10867	0.11007	0.07372
7.5	0.10121	0.01155	0.11492	0.13473	0.04924	0.10618	0.11192	0.08011

8.5	0.09928	0.01317	0.11286	0.13473	0.0463	0.10374	0.11597	0.09017
9.5	0.09197	0.02132	0.11071	0.13473	0.04376	0.10132	0.12263	0.1007

Data for Figure 2e – RGO-ZnO								
Pore volume	C/C_o							
	Obs	Obs_STD	M1	M2	M3	M4	M5	M6
0.5	0.00694	0.00113	8.58E-05	1.81E-05	8.59E-05	8.32E-05	4.60E-06	1.01E-06
1	0.03232	0.00416	0.5048	0.08388	0.50649	0.4828	0.03933	0.10019
1.5	0.70339	0.13693	0.90651	0.74055	0.91022	0.88681	0.70298	0.76106
2	0.9172	0.0068	0.91326	0.99497	0.91702	0.91766	0.98474	0.92721
2.5	0.94832	0.02512	0.91327	0.99996	0.91704	0.93544	0.99954	0.93333
3	0.96007	0.03985	0.91327	1	0.91704	0.94878	0.99999	0.93342
3.5	0.97008	0.04231	0.91319	0.99991	0.91695	0.95894	0.99997	0.93342
4	0.76963	0.06138	0.40848	0.45369	0.41055	0.43569	0.75843	0.83293
4.5	0.11886	0.02795	0.00677	0.00783	0.00682	0.00742	0.13425	0.17208
5	0.0426	3.21E-03	1.67E-05	2.02E-05	1.69E-05	1.89E-05	0.00789	0.00619
5.5	0.02871	0.00661	1.79E-08	2.26E-08	1.82E-08	2.07E-08	2.53E-04	8.30E-05
6	0.02137	0.00604	1.25E-11	1.66E-11	1.28E-11	1.49E-11	5.61E-06	6.45E-07
6.5	0.01629	4.91E-03	6.89E-15	9.58E-15	7.10E-15	8.48E-15	9.71E-08	3.63E-09
7	0.01442	7.55E-03	3.30E-18	4.80E-18	3.42E-18	4.17E-18	1.41E-09	1.67E-11
7.5	0.01135	0.00585	1.39E-21	2.07E-21	1.45E-21	1.84E-21	1.79E-11	6.68E-14
8	8.01E-04	0	2.98E-23	0.00E+00	3.12E-23	7.69E-24	2.06E-13	2.44E-16
8.5	8.01E-04	0	7.43E-23	4.31E-22	7.77E-23	4.83E-23	2.19E-15	8.34E-19
9	8.01E-04	0.00E+00	5.26E-22	1.45E-21	5.50E-22	1.45E-22	2.18E-17	2.60E-21
9.5	8.01E-04	0.00E+00	1.55E-20	4.92E-21	1.62E-20	7.44E-22	2.07E-19	6.24E-21
10	8.01E-04	0	4.67E-21	6.44E-21	4.71E-21	2.22E-20	1.75E-21	3.88E-19

Data for Figure 2f – RGO-ZnO								
Depth	S/C_o (cm^3/g)							
	Obs	Obs_STD	M1	M2	M3	M4	M5	M6
0.5	0.07603	0.01317	0.06821	0.08639	0.13382	0.07078	0.04772	0.10678
1.5	0.06534	0.00725	0.06759	0.08639	0.08381	0.06398	0.04773	0.06706
2.5	0.05862	0.0149	0.06698	0.08639	0.06683	0.05907	0.04776	0.05358
3.5	0.05448	0.01333	0.06637	0.08639	0.0574	0.05533	0.04793	0.04615
4.5	0.05013	0.01637	0.06577	0.08639	0.05117	0.05233	0.0485	0.04153
5.5	0.04753	0.01882	0.06517	0.08639	0.04663	0.04984	0.05006	0.03933
6.5	0.04447	0.01633	0.06457	0.08639	0.04312	0.04771	0.0534	0.04073
7.5	0.04272	0.01447	0.06397	0.08639	0.0403	0.04586	0.05916	0.0473
8.5	0.04119	0.01292	0.06331	0.08639	0.03793	0.04419	0.06726	0.05876
9.5	0.03988	0.01168	0.06255	0.08639	0.03585	0.04264	0.07649	0.07169

Figure 3. Observed (dots) and fitted (lines) breakthrough curves (a, c, and e) and retention profiles (b, d, and f) of RGO-Fe_3O_4 (a–b; no SRHA), RGO-TiO_2 (c–d; in 1 mg C/L SRHA), and RGO-ZnO (e–f; in 5 mg C/L SRHA) nanohybrids in water-saturated sand columns at different concentrations of NaCl (1, 10, 50, and 100 mM) using the time- and depth-dependent retention model (M4) via inverse-fitting. Column experiments were performed in water-saturated sands having an average grain size of 360-µm at a Darcy velocity of 0.441 cm min^{-1}. The error bars represent the standard deviations between duplicate experiments (n = 2).

Data for Figure 3a – RGO-Fe_3O_4

Pore volume	C/C_o											
	1 mM NaCl			10 mM NaCl			50 mM NaCl			100 mM NaCl		
	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted
0.5	0.0132	0.008	1.64E-04	2.15E-02	9.63E-03	6.95E-05	3.00E-02	9.85E-03	1.27E-04	2.26E-02	1.07E-02	4.62E-05
1	0.12926	0.05789	0.48106	0.08255	0.02273	0.35941	0.12943	0.03297	0.31505	0.11914	0.02897	0.28557
1.5	0.86769	0.06094	0.86431	0.68219	0.01079	0.66004	0.65119	0.02425	0.5713	0.6097	0.00915	0.54301
2	0.90135	0.04151	0.88689	0.72306	0.02235	0.71179	0.66888	0.0235	0.62691	0.62642	0.01144	0.5918
2.5	0.91104	0.02628	0.89904	0.72524	0.03545	0.75176	0.67317	0.02274	0.67168	0.62615	0.01182	0.63199
3	0.91751	0.01028	0.90942	0.72033	0.03005	0.78555	0.66566	0.01516	0.71076	0.62291	0.01105	0.66789
3.5	0.90862	0.00533	0.91825	0.72006	0.0289	0.81433	0.66352	0.01592	0.74498	0.62669	0.01105	0.70018
4	0.67217	0.06779	0.41234	0.61817	0.0027	0.36779	0.43359	0.0811	0.33238	0.42183	0.03393	0.40236
4.5	0.01993	0.01676	0.00927	0.06321	0.00694	0.0059	0.02975	0.00644	0.00693	0.031	0.00267	0.00902
5	0.01373	5.71E-03	3.90E-05	1.83E-02	2.70E-03	1.40E-05	1.31E-02	4.93E-03	2.67E-05	0.02372	0.00457	2.55E-05
5.5	0.00969	0.00229	7.83E-08	1.42E-02	1.54E-03	1.43E-08	1.15E-02	1.89E-03	4.90E-08	1.86E-02	8.77E-03	2.92E-08
6	0.00943	0.00419	1.09E-10	1.04E-02	7.71E-04	9.57E-12	1.15E-02	2.65E-03	6.20E-11	1.83E-02	5.34E-03	2.12E-11
6.5	0.00592	2.29E-03	1.23E-13	6.27E-03	3.47E-03	5.05E-15	1.10E-02	2.65E-03	6.37E-14	1.81E-02	5.72E-03	1.20E-14
7	0.00592	7.62E-04	1.22E-16	6.54E-03	3.08E-03	2.31E-18	1.13E-02	3.03E-03	5.77E-17	1.86E-02	6.48E-03	5.80E-18
7.5	0.00323	0.00229	1.12E-19	7.08E-03	3.85E-03	9.35E-22	1.18E-02	2.27E-03	4.82E-20	1.89E-02	7.62E-03	2.50E-21
8	0.00296	0.0019	1.02E-22	4.36E-03	7.71E-04	0.00E+00	1.13E-02	3.03E-03	3.63E-23	1.46E-02	2.29E-03	1.91E-23
8.5	0.00135	0.0019	1.45E-23	4.63E-03	3.85E-04	3.55E-23	1.21E-02	2.65E-03	1.85E-23	1.43E-02	2.67E-03	2.31E-22
9	0.00135	3.81E-04	3.20E-23	3.81E-03	7.71E-04	1.42E-22	1.13E-02	2.27E-03	1.09E-23	1.46E-02	3.05E-03	6.11E-22
9.5	2.69E-04	3.81E-04	1.72E-22	4.63E-03	3.85E-04	5.02E-22	1.13E-02	2.27E-03	1.26E-22	1.40E-02	3.05E-03	1.41E-20
10	0.00189	0.00114	9.33E-22	4.90E-03	1.54E-03	1.13E-20	1.13E-02	2.27E-03	9.07E-22	1.05E-02	1.91E-03	4.56E-21

Data for Figure 3b – RGO-Fe_3O_4

Depth	S/C_o (cm^3/g)											
	1 mM NaCl			10 mM NaCl			50 mM NaCl			100 mM NaCl		
	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted
0.5	0.1358	0.00636	0.13407	0.30388	0.01801	0.30335	0.42152	0.03923	0.42027	0.48003	0.02872	0.49663
1.5	0.10342	0.0089	0.10289	0.25566	0.03731	0.25408	0.33918	0.02911	0.34516	0.38218	0.06005	0.3907
2.5	0.08724	0.00127	0.08814	0.222	0.03088	0.22374	0.29086	0.01898	0.29954	0.30925	0.02742	0.33158
3.5	0.07824	0.00636	0.07877	0.20107	0.0193	0.20202	0.25864	0.01139	0.26702	0.27417	0.0248	0.29105
4.5	0.07195	0.01017	0.07204	0.18379	0.00772	0.1852	0.23179	0.01139	0.24193	0.24186	0.02872	0.26055
5.5	0.06565	0.01908	0.06686	0.17014	0.00643	0.17155	0.2121	0.02911	0.22163	0.22986	0.0248	0.23633
6.5	0.06205	0.02162	0.06268	0.15922	0.00129	0.16011	0.1951	0.02784	0.20468	0.21509	0.01436	0.21641

7.5	0.05756	0.03052	0.0592	0.14921	0	0.15027	0.18078	0.01519	0.19018	0.20032	0.00914	0.19957
8.5	0.05576	0.03052	0.05621	0.14011	0.01029	0.1416	0.17004	0.02784	0.1775	0.18647	0.01044	0.18497
9.5	0.05306	0.02925	0.05356	0.13739	0.01158	0.13371	0.16109	0.01772	0.1662	0.1717	0.0235	0.17198

Data for Figure 3c – RGO-TiO_2

Pore volume	C/C_o											
	1 mM NaCl			10 mM NaCl			50 mM NaCl			100 mM NaCl		
	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted
0.5	0.01185	0.00197	1.35E-04	1.02E-02	3.74E-03	4.44E-06	7.05E-03	2.06E-03	4.01E-07	8.24E-03	2.69E-03	3.36E-09
1	0.05424	0.0248	0.36211	0.01979	0.00521	0.00764	0.02128	0.00396	1.66E-04	0.02186	0.00134	1.08E-06
1.5	0.47616	0.05157	0.71988	0.08099	0.04198	0.03392	0.0467	0.00275	0.00136	0.02946	0.00224	2.31E-05
2	0.81737	0.02595	0.82013	0.13875	0.01009	0.09468	0.07261	8.60E-04	0.00709	0.03754	6.72E-04	2.93E-04
2.5	0.92108	0.02053	0.88207	0.2278	0.01529	0.21036	0.10387	0.00138	0.02929	0.05369	6.72E-04	0.00277
3	0.95255	0.01577	0.92247	0.36171	0.00716	0.3863	0.14242	0.00258	0.10106	0.07777	0.00381	0.02124
3.5	0.96881	0.01347	0.9487	0.5084	0.04507	0.59003	0.18183	1.72E-04	0.28235	0.11167	0.00246	0.13159
4	0.75651	0.01314	0.43267	0.55269	0.00618	0.39282	0.1648	0.03526	0.22309	0.11673	0.00739	0.18146
4.5	0.07828	0.00296	0.00993	0.27267	0.04914	0.14477	0.04111	0.00688	0.01998	0.03184	0.00291	0.01796
5	0.02601	6.57E-04	4.27E-05	4.94E-02	3.95E-02	1.31E-01	2.26E-02	6.88E-04	1.55E-02	0.02186	0.00179	1.40E-02
5.5	0.01893	0.00214	8.77E-08	2.15E-02	8.30E-03	1.21E-01	1.67E-02	3.61E-03	1.53E-02	1.71E-02	8.96E-04	1.38E-02
6	0.0151	0.00131	1.24E-10	1.54E-02	3.25E-03	1.14E-01	1.51E-02	3.10E-03	1.51E-02	1.49E-02	4.48E-04	1.36E-02
6.5	0.01173	1.64E-04	1.43E-13	1.30E-02	3.09E-03	1.07E-01	1.31E-02	3.10E-03	1.50E-02	1.27E-02	8.96E-04	1.34E-02
7	0.01173	8.21E-04	1.46E-16	1.10E-02	2.93E-03	1.01E-01	1.25E-02	2.58E-03	1.48E-02	1.09E-02	2.02E-03	1.32E-02
7.5	0.00917	0.00115	1.37E-19	1.01E-02	3.58E-03	9.54E-02	9.24E-03	3.44E-04	1.46E-02	9.82E-03	4.48E-04	1.31E-02
8	0	0	1.25E-22	0.00E+00	0.00E+00	9.06E-02	0.00E+00	0.00E+00	1.45E-02	6.34E-03	0.00E+00	1.29E-02
8.5	0	0	3.86E-23	0.00E+00	0.00E+00	8.63E-02	0.00E+00	0.00E+00	1.43E-02	6.18E-03	2.24E-04	1.27E-02
9	0	0.00E+00	5.11E-23	0.00E+00	0.00E+00	8.24E-02	0.00E+00	0.00E+00	1.42E-02	3.96E-03	1.12E-03	1.26E-02
9.5	0.00E+00	0.00E+00	1.36E-22	0.00E+00	0.00E+00	7.88E-02	0.00E+00	0.00E+00	1.41E-02	3.64E-03	1.57E-03	1.24E-02
10	0	0	1.26E-21	0.00E+00	0.00E+00	7.55E-02	0.00E+00	0.00E+00	1.39E-02	3.17E-03	2.24E-03	1.23E-02

Data for Figure 3d – RGO-TiO_2

Depth	S/C_o (cm^3/g)											
	1 mM NaCl			10 mM NaCl			50 mM NaCl			100 mM NaCl		
	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted
0.5	0.13056	0.01173	0.12275	0.5237	0.01546	0.53777	0.6915	0.00259	0.71077	0.7194	2.04E-05	0.72936
1.5	0.12669	0.01171	0.12134	0.52405	0.00751	0.53901	0.68385	0.00594	0.7111	0.71782	7.75E-04	0.72993
2.5	0.12206	0.01168	0.11906	0.52368	0.0091	0.54077	0.68344	0.00423	0.71154	0.71728	0.00301	0.73053
3.5	0.11665	0.01164	0.11649	0.52367	0.00591	0.54115	0.68341	0.00378	0.71183	0.71939	0.00151	0.73114
4.5	0.11125	0.01379	0.11385	0.5233	0.00644	0.53851	0.68301	0.00436	0.71107	0.71886	0.00226	0.73173
5.5	0.10739	0.01159	0.11123	0.51503	0.00214	0.53108	0.68221	2.15E-04	0.70639	0.72098	7.55E-04	0.73213
6.5	0.10507	0.01157	0.10867	0.50714	4.88E-04	0.51696	0.65832	0.00851	0.69083	0.71098	0.00291	0.73072
7.5	0.10121	0.01155	0.10618	0.48271	0.01507	0.49436	0.62722	0.00102	0.65142	0.68615	0.02182	0.71786
8.5	0.09928	0.01317	0.10374	0.44418	0.01595	0.46193	0.58357	0.0099	0.57257	0.64518	0.01218	0.65467
9.5	0.09197	0.02132	0.10132	0.41454	0.01308	0.41949	0.46951	0.00462	0.45243	0.49031	7.97E-04	0.47751

Data for Figure 3e – RGO-ZnO												
Pore volume	C/C_o											
	1 mM NaCl			10 mM NaCl			50 mM NaCl			100 mM NaCl		
	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted
0.5	0.00694	0.00113	8.32E-05	3.61E-03	1.84E-03	7.78E-05	1.72E-03	2.21E-04	1.31E-04	8.44E-04	1.19E-03	5.28E-05
1	0.03232	0.00416	0.4828	0.01359	0.00164	0.4328	0.0128	0.00132	0.33845	0.01705	0.00119	0.24327
1.5	0.70339	0.13693	0.88681	0.28375	0.0415	0.79338	0.14643	0.01457	0.64304	0.09894	0.00621	0.51686
2	0.9172	0.0068	0.91766	0.84374	0.02392	0.83292	0.69423	0.0064	0.7235	0.58537	0.02555	0.64523
2.5	0.94832	0.02512	0.93544	0.94088	0.07625	0.86006	0.8519	0.01258	0.78259	0.8209	0.00764	0.74373
3	0.96007	0.03985	0.94878	0.94955	0.07053	0.88201	0.88983	0.00442	0.82893	0.89857	0.03152	0.81787
3.5	0.97008	0.04231	0.95894	0.9549	0.06378	0.89999	0.90529	0.00287	0.86522	0.94044	0.00382	0.87198
4	0.76963	0.06138	0.43569	0.73504	0.02065	0.40791	0.71312	0.12937	0.39377	0.71166	0.1287	0.40414
4.5	0.11886	0.02795	0.00742	0.11434	0.02065	0.00678	0.13223	0.04438	0.00875	0.12359	0.0277	0.00675
5	0.0426	3.21E-03	1.89E-05	6.26E-02	1.33E-02	1.68E-05	7.34E-02	2.69E-02	3.62E-05	0.05741	0.01242	1.67E-05
5.5	0.02871	0.00661	2.07E-08	5.23E-02	1.55E-02	1.79E-08	5.51E-02	2.05E-02	7.15E-08	3.93E-02	3.10E-03	1.78E-08
6	0.02137	0.00604	1.49E-11	4.64E-02	1.29E-02	1.26E-11	4.03E-02	1.41E-02	9.75E-11	3.53E-02	7.88E-03	1.25E-11
6.5	0.01629	4.91E-03	8.48E-15	4.09E-02	9.20E-03	6.93E-15	3.03E-02	1.06E-02	1.08E-13	2.94E-02	6.69E-03	6.88E-15
7	0.01442	7.55E-03	4.17E-18	3.56E-02	7.77E-03	3.31E-18	2.44E-02	5.30E-03	1.05E-16	2.53E-02	7.16E-03	3.29E-18
7.5	0.01135	0.00585	1.84E-21	3.08E-02	3.07E-03	1.40E-21	2.39E-02	2.21E-04	9.48E-20	2.25E-02	4.54E-03	1.39E-21
8	8.01E-04	0	7.69E-24	1.45E-02	0.00E+00	3.00E-23	0.00E+00	0.00E+00	2.79E-23	3.38E-03	0.00E+00	2.97E-23
8.5	8.01E-04	0	4.83E-23	5.78E-03	0.00E+00	7.37E-23	0.00E+00	0.00E+00	8.77E-24	1.35E-03	0.00E+00	7.24E-23
9	8.01E-04	0.00E+00	1.45E-22	2.89E-03	0.00E+00	5.25E-22	0.00E+00	0.00E+00	3.10E-23	0.00E+00	0.00E+00	5.17E-22
9.5	8.01E-04	0.00E+00	7.44E-22	0.00E+00	0.00E+00	1.54E-20	0.00E+00	0.00E+00	1.20E-22	0.00E+00	0.00E+00	1.52E-20
10	8.01E-04	0	2.22E-20	0.00E+00	0.00E+00	4.14E-21	0.00E+00	0.00E+00	4.95E-22	0.00E+00	0.00E+00	4.38E-21

Data for Figure 3f – RGO-ZnO												
Depth	S/C_o (cm^3/g)											
	1 mM NaCl			10 mM NaCl			50 mM NaCl			100 mM NaCl		
	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted	Obs	Obs_STD	M4-fitted
0.5	0.07603	0.01317	0.07078	0.17009	0.0141	0.16452	0.23687	0.05872	0.22939	0.26063	0.04607	0.24731
1.5	0.06534	0.00725	0.06398	0.13996	0.00499	0.14036	0.21815	0.04539	0.21398	0.24432	0.03883	0.24315
2.5	0.05862	0.0149	0.05907	0.12351	0.00889	0.12547	0.19422	0.0291	0.19993	0.23475	0.03003	0.23664
3.5	0.05448	0.01333	0.05533	0.11459	0.01749	0.11486	0.18433	0.01949	0.18789	0.22351	0.0252	0.22931
4.5	0.05013	0.01637	0.05233	0.10565	0.02343	0.10666	0.17445	0.01282	0.17744	0.21958	0.02597	0.22172
5.5	0.04753	0.01882	0.04984	0.09669	0.02136	0.10003	0.16459	0.01497	0.16824	0.2106	0.02591	0.21411
6.5	0.04447	0.01633	0.04771	0.09102	0.01732	0.09447	0.15474	0.01857	0.16002	0.20274	0.02428	0.20659
7.5	0.04272	0.01447	0.04586	0.08584	0.01928	0.08969	0.14797	0.01193	0.15259	0.19656	0.02503	0.1992
8.5	0.04119	0.01292	0.04419	0.08207	0.01792	0.08547	0.14433	0.0097	0.14576	0.18926	0.02419	0.1919
9.5	0.03988	0.01168	0.04264	0.07831	0.02056	0.0816	0.14174	0.01042	0.13938	0.18085	0.02811	0.1846

Figure 4. Simulated retention profiles of RGO-Fe_3O_4 (a; no SRHA), RGO-TiO_2 (b; in 1 mg C/L SRHA), and RGO-ZnO nanohybrids (c; in 5 mg C/L SRHA) under 1 mM NaCl in 500-cm long columns packed with sands having an average grain size of 360-μm at a Darcy velocity of 0.441 cm min^{-1} using six different models (M1−M6) via forward simulation. Specifically, forward simulation was performed for each model (from M1 to M6) using the inversely-fitted parameters obtained from the paired model as initial input conditions. The normalized solid-phase concentration (S/C_o) is plotted as a function of distance from the column inlet on a log-scale. Simulations of M6 for RGO-Fe_3O_4 (a) and M5 for RGO-TiO_2 (b) nanohybrids were not shown because model-predicted retention profiles exhibited multiple retention peaks, which is inconsistent with the results of observed retention profiles shown in Figures 2−3 above.

Data for Figure 4a – RGO-Fe_3O_4					
Depth (cm)	S/C_o (cm^3/g)				
	M1-fitted	M2-fitted	M3-fitted	M4-fitted	M5-fitted
0	0.08317	0.07675	0.5374	0.1798	0.04644
-0.5005	0.08269	0.07675	0.1646	0.1343	0.04644
-1.001	0.08224	0.07675	0.1227	0.1149	0.04644
-1.5015	0.08179	0.07675	0.1028	0.103	0.04644
-2.002	0.08134	0.07675	0.09042	0.09464	0.04644
-2.5025	0.08089	0.07675	0.08176	0.08823	0.04644
-3.003	0.08045	0.07675	0.07524	0.0831	0.04644
-3.5035	0.08001	0.07675	0.0701	0.07884	0.04644
-4.004	0.07957	0.07675	0.06589	0.07522	0.04644
-4.5045	0.07913	0.07675	0.06237	0.07209	0.04644
-5.005	0.0787	0.07675	0.05936	0.06935	0.04644
-5.5055	0.07826	0.07675	0.05675	0.0669	0.04644
-6.006	0.07783	0.07675	0.05445	0.06471	0.04644
-6.5065	0.07741	0.07675	0.05241	0.06272	0.04644
-7.007	0.07698	0.07675	0.05058	0.06091	0.04644
-7.5075	0.07656	0.07675	0.04893	0.05925	0.04644
-8.008	0.07614	0.07675	0.04742	0.05771	0.04644
-8.5085	0.07572	0.07675	0.04605	0.05629	0.04644
-9.009	0.07531	0.07675	0.04478	0.05497	0.04644
-9.5095	0.07489	0.07675	0.04361	0.05373	0.04644
-10.01	0.07448	0.07675	0.04252	0.05258	0.04644
-10.5105	0.07407	0.07675	0.04151	0.05149	0.04644
-11.011	0.07367	0.07675	0.04056	0.05046	0.04644
-11.5115	0.07326	0.07675	0.03967	0.04949	0.04644
-12.012	0.07286	0.07675	0.03884	0.04857	0.04644
-12.5125	0.07246	0.07675	0.03805	0.0477	0.04644
-13.013	0.07206	0.07675	0.03731	0.04687	0.04644
-13.5135	0.07167	0.07675	0.03661	0.04608	0.04644
-14.014	0.07127	0.07675	0.03594	0.04532	0.04644
-14.5145	0.07088	0.07675	0.0353	0.0446	0.04644
-15.015	0.07049	0.07675	0.0347	0.04391	0.04644
-15.5155	0.07011	0.07675	0.03412	0.04325	0.04644
-16.016	0.06972	0.07675	0.03357	0.04261	0.04644
-16.5165	0.06934	0.07675	0.03305	0.042	0.04644

-17.017	0.06896	0.07675	0.03254	0.04141	0.04644
-17.5175	0.06858	0.07675	0.03206	0.04085	0.04644
-18.018	0.0682	0.07675	0.03159	0.0403	0.04644
-18.5185	0.06783	0.07675	0.03115	0.03977	0.04644
-19.019	0.06746	0.07675	0.03072	0.03926	0.04644
-19.5195	0.06709	0.07675	0.0303	0.03877	0.04644
-20.02	0.06672	0.07675	0.0299	0.03829	0.04644
-20.5205	0.06635	0.07675	0.02952	0.03783	0.04644
-21.021	0.06599	0.07675	0.02915	0.03739	0.04644
-21.5215	0.06563	0.07675	0.02879	0.03695	0.04644
-22.022	0.06526	0.07675	0.02844	0.03653	0.04644
-22.5225	0.06491	0.07675	0.0281	0.03612	0.04644
-23.023	0.06455	0.07675	0.02778	0.03572	0.04644
-23.5235	0.0642	0.07675	0.02746	0.03534	0.04644
-24.024	0.06384	0.07675	0.02715	0.03496	0.04644
-24.5245	0.06349	0.07675	0.02686	0.0346	0.04644
-25.025	0.06314	0.07675	0.02657	0.03424	0.04644
-25.5255	0.0628	0.07675	0.02629	0.03389	0.04644
-26.026	0.06245	0.07675	0.02601	0.03355	0.04644
-26.5265	0.06211	0.07675	0.02575	0.03322	0.04644
-27.027	0.06177	0.07675	0.02549	0.0329	0.04644
-27.5275	0.06143	0.07675	0.02524	0.03259	0.04644
-28.028	0.06109	0.07675	0.025	0.03228	0.04644
-28.5285	0.06076	0.07675	0.02476	0.03198	0.04644
-29.029	0.06042	0.07675	0.02452	0.03169	0.04644
-29.5295	0.06009	0.07675	0.0243	0.0314	0.04644
-30.03	0.05976	0.07675	0.02407	0.03112	0.04644
-30.5305	0.05943	0.07675	0.02386	0.03085	0.04644
-31.031	0.05911	0.07675	0.02364	0.03058	0.04644
-31.5315	0.05878	0.07675	0.02344	0.03032	0.04644
-32.032	0.05846	0.07675	0.02323	0.03006	0.04644
-32.5325	0.05814	0.07675	0.02303	0.02981	0.04644
-33.033	0.05782	0.07675	0.02284	0.02956	0.04644
-33.5335	0.0575	0.07675	0.02265	0.02932	0.04644
-34.034	0.05719	0.07675	0.02246	0.02908	0.04644
-34.5345	0.05687	0.07675	0.02228	0.02885	0.04644
-35.035	0.05656	0.07675	0.0221	0.02862	0.04644
-35.5355	0.05625	0.07675	0.02192	0.02839	0.04644
-36.036	0.05594	0.07675	0.02175	0.02817	0.04644
-36.5365	0.05564	0.07675	0.02158	0.02796	0.04644
-37.037	0.05533	0.07675	0.02141	0.02775	0.04644
-37.5375	0.05503	0.07675	0.02125	0.02754	0.04644
-38.038	0.05473	0.07675	0.02109	0.02733	0.04644
-38.5385	0.05442	0.07675	0.02093	0.02713	0.04644
-39.039	0.05413	0.07675	0.02078	0.02693	0.04644
-39.5395	0.05383	0.07675	0.02063	0.02674	0.04644
-40.04	0.05353	0.07675	0.02048	0.02655	0.04644
-40.5405	0.05324	0.07675	0.02034	0.02636	0.04644
-41.041	0.05295	0.07675	0.0202	0.02618	0.04644

-41.5415	0.05266	0.07675	0.02006	0.02599	0.04644
-42.042	0.05237	0.07675	0.01992	0.02581	0.04644
-42.5425	0.05208	0.07675	0.01978	0.02564	0.04644
-43.043	0.05179	0.07675	0.01965	0.02547	0.04644
-43.5435	0.05151	0.07675	0.01952	0.02529	0.04644
-44.044	0.05123	0.07675	0.01939	0.02513	0.04644
-44.5445	0.05095	0.07675	0.01927	0.02496	0.04644
-45.045	0.05067	0.07675	0.01914	0.0248	0.04644
-45.5455	0.05039	0.07675	0.01902	0.02464	0.04644
-46.0461	0.05011	0.07675	0.0189	0.02448	0.04644
-46.5466	0.04984	0.07675	0.01878	0.02432	0.04644
-47.0471	0.04956	0.07675	0.01866	0.02417	0.04644
-47.5476	0.04929	0.07675	0.01855	0.02402	0.04644
-48.048	0.04902	0.07675	0.01843	0.02387	0.04644
-48.5485	0.04875	0.07675	0.01832	0.02372	0.04644
-49.049	0.04848	0.07675	0.01821	0.02358	0.04644
-49.5495	0.04822	0.07675	0.0181	0.02343	0.04644
-50.05	0.04795	0.07675	0.018	0.02329	0.04644
-50.5505	0.04769	0.07675	0.01789	0.02315	0.04644
-51.051	0.04743	0.07675	0.01779	0.02301	0.04644
-51.5516	0.04717	0.07675	0.01769	0.02288	0.04644
-52.0521	0.04691	0.07675	0.01759	0.02274	0.04644
-52.5526	0.04665	0.07675	0.01749	0.02261	0.04644
-53.0531	0.0464	0.07675	0.01739	0.02248	0.04644
-53.5536	0.04614	0.07675	0.01729	0.02235	0.04644
-54.0541	0.04589	0.07675	0.01719	0.02223	0.04644
-54.5546	0.04564	0.07675	0.0171	0.0221	0.04644
-55.055	0.04539	0.07675	0.01701	0.02198	0.04644
-55.5556	0.04514	0.07675	0.01692	0.02185	0.04644
-56.0561	0.04489	0.07675	0.01683	0.02173	0.04644
-56.5566	0.04464	0.07675	0.01674	0.02161	0.04644
-57.0571	0.0444	0.07675	0.01665	0.0215	0.04644
-57.5576	0.04415	0.07675	0.01656	0.02138	0.04644
-58.0581	0.04391	0.07675	0.01647	0.02126	0.04644
-58.5586	0.04367	0.07675	0.01639	0.02115	0.04644
-59.0591	0.04343	0.07675	0.0163	0.02104	0.04644
-59.5596	0.04319	0.07675	0.01622	0.02092	0.04644
-60.0601	0.04295	0.07675	0.01614	0.02081	0.04644
-60.5606	0.04272	0.07675	0.01606	0.02071	0.04644
-61.0611	0.04248	0.07675	0.01598	0.0206	0.04644
-61.5616	0.04225	0.07675	0.0159	0.02049	0.04644
-62.0621	0.04202	0.07675	0.01582	0.02039	0.04644
-62.5626	0.04179	0.07675	0.01574	0.02028	0.04644
-63.0631	0.04156	0.07675	0.01567	0.02018	0.04644
-63.5636	0.04133	0.07675	0.01559	0.02008	0.04644
-64.0641	0.0411	0.07675	0.01552	0.01998	0.04644
-64.5646	0.04088	0.07675	0.01544	0.01988	0.04644
-65.0651	0.04065	0.07675	0.01537	0.01978	0.04644
-65.5656	0.04043	0.07675	0.0153	0.01968	0.04644

-66.0661	0.04021	0.07675	0.01523	0.01959	0.04644
-66.5666	0.03999	0.07675	0.01516	0.01949	0.04644
-67.0671	0.03977	0.07675	0.01509	0.0194	0.04644
-67.5676	0.03955	0.07675	0.01502	0.0193	0.04644
-68.0681	0.03933	0.07675	0.01495	0.01921	0.04644
-68.5686	0.03912	0.07675	0.01488	0.01912	0.04644
-69.0691	0.0389	0.07675	0.01481	0.01903	0.04644
-69.5696	0.03869	0.07675	0.01475	0.01894	0.04644
-70.0701	0.03848	0.07675	0.01468	0.01885	0.04644
-70.5706	0.03827	0.07674	0.01462	0.01876	0.04644
-71.0711	0.03806	0.07674	0.01455	0.01867	0.04644
-71.5716	0.03785	0.07674	0.01449	0.01859	0.04644
-72.0721	0.03764	0.07674	0.01443	0.0185	0.04644
-72.5726	0.03743	0.07673	0.01436	0.01842	0.04644
-73.0731	0.03723	0.07672	0.0143	0.01833	0.04644
-73.5736	0.03702	0.07672	0.01424	0.01825	0.04644
-74.0741	0.03682	0.07671	0.01418	0.01817	0.04644
-74.5746	0.03662	0.07669	0.01412	0.01809	0.04644
-75.0751	0.03642	0.07668	0.01406	0.01801	0.04644
-75.5756	0.03622	0.07666	0.014	0.01793	0.04644
-76.0761	0.03602	0.07664	0.01394	0.01785	0.04644
-76.5766	0.03582	0.07661	0.01389	0.01777	0.04644
-77.0771	0.03562	0.07657	0.01383	0.01769	0.04644
-77.5776	0.03543	0.07653	0.01377	0.01761	0.04644
-78.0781	0.03523	0.07648	0.01372	0.01754	0.04644
-78.5786	0.03504	0.07641	0.01366	0.01746	0.04644
-79.0791	0.03485	0.07633	0.01361	0.01739	0.04644
-79.5796	0.03466	0.07623	0.01355	0.01731	0.04644
-80.0801	0.03447	0.0761	0.0135	0.01724	0.04644
-80.5806	0.03428	0.07595	0.01344	0.01717	0.04644
-81.0811	0.03409	0.07577	0.01339	0.01709	0.04644
-81.5816	0.0339	0.07554	0.01334	0.01702	0.04644
-82.0821	0.03372	0.07526	0.01329	0.01695	0.04644
-82.5826	0.03353	0.07493	0.01323	0.01688	0.04644
-83.0831	0.03335	0.07453	0.01318	0.01681	0.04644
-83.5836	0.03316	0.07404	0.01313	0.01674	0.04644
-84.0841	0.03298	0.07346	0.01308	0.01667	0.04644
-84.5846	0.0328	0.07277	0.01303	0.0166	0.04644
-85.0851	0.03262	0.07194	0.01298	0.01653	0.04644
-85.5856	0.03244	0.07096	0.01293	0.01647	0.04644
-86.0861	0.03226	0.06981	0.01288	0.0164	0.04644
-86.5866	0.03209	0.06847	0.01284	0.01634	0.04644
-87.0871	0.03191	0.06691	0.01279	0.01627	0.04644
-87.5876	0.03173	0.06513	0.01274	0.0162	0.04644
-88.0881	0.03156	0.0631	0.01269	0.01614	0.04644
-88.5886	0.03139	0.06083	0.01265	0.01608	0.04644
-89.0891	0.03122	0.0583	0.0126	0.01601	0.04644
-89.5896	0.03104	0.05553	0.01255	0.01595	0.04644
-90.0901	0.03087	0.05254	0.01251	0.01589	0.04644

-90.5906	0.0307	0.04935	0.01246	0.01583	0.04644
-91.0911	0.03054	0.04601	0.01242	0.01576	0.04644
-91.5916	0.03037	0.04257	0.01237	0.0157	0.04644
-92.0921	0.0302	0.03908	0.01233	0.01564	0.04644
-92.5926	0.03004	0.0356	0.01229	0.01558	0.04644
-93.0931	0.02987	0.03218	0.01224	0.01552	0.04644
-93.5936	0.02971	0.02887	0.0122	0.01546	0.04644
-94.0941	0.02954	0.02572	0.01216	0.01541	0.04644
-94.5946	0.02938	0.02276	0.01212	0.01535	0.04644
-95.0951	0.02922	0.02002	0.01207	0.01529	0.04644
-95.5956	0.02906	0.01751	0.01203	0.01523	0.04644
-96.0961	0.0289	0.01523	0.01199	0.01517	0.04644
-96.5966	0.02874	0.01319	0.01195	0.01512	0.04644
-97.0971	0.02858	0.01138	0.01191	0.01506	0.04644
-97.5976	0.02843	0.00978	0.01187	0.01501	0.04644
-98.0981	0.02827	0.00838	0.01183	0.01495	0.04644
-98.5986	0.02812	0.00716	0.01179	0.0149	0.04644
-99.0991	0.02796	0.0061	0.01175	0.01484	0.04644
-99.5996	0.02781	0.00519	0.01171	0.01479	0.04644
-100.1001	0.02766	0.0044	0.01167	0.01473	0.04644
-100.6006	0.0275	0.00373	0.01163	0.01468	0.04644
-101.1011	0.02735	0.00316	0.01159	0.01463	0.04644
-101.6016	0.0272	0.00267	0.01155	0.01457	0.04644
-102.1021	0.02705	0.00226	0.01152	0.01452	0.04644
-102.6026	0.0269	0.00191	0.01148	0.01447	0.04644
-103.1031	0.02676	0.00161	0.01144	0.01442	0.04644
-103.6036	0.02661	0.00136	0.0114	0.01437	0.04644
-104.1041	0.02646	0.00114	0.01137	0.01432	0.04644
-104.6046	0.02632	9.62E-04	0.01133	0.01427	0.04644
-105.1051	0.02617	8.10E-04	0.01129	0.01422	0.04644
-105.6056	0.02603	6.82E-04	0.01126	0.01417	0.04644
-106.1061	0.02589	5.74E-04	0.01122	0.01412	0.04644
-106.6066	0.02575	4.83E-04	0.01119	0.01407	0.04644
-107.1071	0.0256	4.06E-04	0.01115	0.01402	0.04644
-107.6076	0.02546	3.42E-04	0.01112	0.01397	0.04644
-108.1081	0.02532	2.87E-04	0.01108	0.01392	0.04644
-108.6086	0.02518	2.42E-04	0.01105	0.01388	0.04644
-109.1091	0.02505	2.03E-04	0.01101	0.01383	0.04644
-109.6096	0.02491	1.71E-04	0.01098	0.01378	0.04644
-110.1101	0.02477	1.44E-04	0.01095	0.01374	0.04644
-110.6106	0.02464	1.21E-04	0.01091	0.01369	0.04644
-111.1111	0.0245	1.02E-04	0.01088	0.01364	0.04644
-111.6116	0.02437	8.53E-05	0.01085	0.0136	0.04644
-112.1121	0.02423	7.17E-05	0.01081	0.01355	0.04644
-112.6126	0.0241	6.03E-05	0.01078	0.01351	0.04644
-113.1131	0.02397	5.07E-05	0.01075	0.01346	0.04644
-113.6136	0.02384	4.26E-05	0.01072	0.01342	0.04644
-114.1141	0.02371	3.58E-05	0.01068	0.01337	0.04644
-114.6146	0.02358	3.01E-05	0.01065	0.01333	0.04644

-115.1151	0.02345	2.53E-05	0.01062	0.01328	0.04644
-115.6156	0.02332	2.13E-05	0.01059	0.01324	0.04644
-116.1161	0.02319	1.79E-05	0.01056	0.0132	0.04644
-116.6166	0.02306	1.50E-05	0.01053	0.01315	0.04644
-117.1171	0.02294	1.26E-05	0.0105	0.01311	0.04644
-117.6176	0.02281	1.06E-05	0.01046	0.01307	0.04644
-118.1181	0.02268	8.92E-06	0.01043	0.01303	0.04644
-118.6186	0.02256	7.49E-06	0.0104	0.01298	0.04644
-119.1191	0.02244	6.30E-06	0.01037	0.01294	0.04644
-119.6196	0.02231	5.29E-06	0.01034	0.0129	0.04644
-120.1201	0.02219	4.45E-06	0.01031	0.01286	0.04644
-120.6206	0.02207	3.74E-06	0.01028	0.01282	0.04644
-121.1211	0.02195	3.14E-06	0.01025	0.01278	0.04644
-121.6216	0.02183	2.64E-06	0.01023	0.01274	0.04644
-122.1221	0.02171	2.22E-06	0.0102	0.0127	0.04644
-122.6226	0.02159	1.87E-06	0.01017	0.01266	0.04644
-123.1231	0.02147	1.57E-06	0.01014	0.01262	0.04644
-123.6236	0.02135	1.32E-06	0.01011	0.01258	0.04644
-124.1241	0.02123	1.11E-06	0.01008	0.01254	0.04644
-124.6246	0.02112	9.31E-07	0.01005	0.0125	0.04644
-125.1251	0.021	7.82E-07	0.01003	0.01246	0.04644
-125.6256	0.02089	6.58E-07	0.01	0.01242	0.04644
-126.1261	0.02077	5.53E-07	0.00997	0.01239	0.04644
-126.6266	0.02066	4.65E-07	0.00994	0.01235	0.04644
-127.1271	0.02054	3.90E-07	0.00992	0.01231	0.04644
-127.6276	0.02043	3.28E-07	0.00989	0.01227	0.04644
-128.1281	0.02032	2.76E-07	0.00986	0.01223	0.04644
-128.6286	0.02021	2.32E-07	0.00984	0.0122	0.04644
-129.1291	0.0201	1.95E-07	0.00981	0.01216	0.04644
-129.6296	0.01999	1.64E-07	0.00978	0.01212	0.04643
-130.1301	0.01988	1.38E-07	0.00975	0.01209	0.04643
-130.6306	0.01977	1.16E-07	0.00973	0.01205	0.04643
-131.1311	0.01966	9.72E-08	0.0097	0.01201	0.04643
-131.6316	0.01955	8.17E-08	0.00968	0.01198	0.04642
-132.1321	0.01944	6.87E-08	0.00965	0.01194	0.04642
-132.6326	0.01934	5.77E-08	0.00962	0.01191	0.04642
-133.1331	0.01923	4.85E-08	0.0096	0.01187	0.04641
-133.6336	0.01913	4.08E-08	0.00957	0.01184	0.0464
-134.1341	0.01902	3.43E-08	0.00955	0.0118	0.0464
-134.6346	0.01892	2.88E-08	0.00952	0.01177	0.04639
-135.1351	0.01881	2.42E-08	0.0095	0.01173	0.04637
-135.6356	0.01871	2.03E-08	0.00947	0.0117	0.04636
-136.1361	0.01861	1.71E-08	0.00945	0.01166	0.04634
-136.6366	0.0185	1.44E-08	0.00942	0.01163	0.04632
-137.1371	0.0184	1.21E-08	0.0094	0.0116	0.0463
-137.6376	0.0183	1.02E-08	0.00937	0.01156	0.04627
-138.1381	0.0182	8.53E-09	0.00935	0.01153	0.04624
-138.6386	0.0181	7.17E-09	0.00933	0.01149	0.0462
-139.1391	0.018	6.03E-09	0.0093	0.01146	0.04615

-139.6396	0.0179	5.06E-09	0.00928	0.01143	0.04609
-140.1401	0.0178	4.26E-09	0.00925	0.0114	0.04602
-140.6406	0.01771	3.58E-09	0.00923	0.01136	0.04594
-141.1411	0.01761	3.01E-09	0.00921	0.01133	0.04584
-141.6416	0.01751	2.53E-09	0.00919	0.0113	0.04572
-142.1421	0.01742	2.12E-09	0.00916	0.01127	0.04558
-142.6426	0.01732	1.79E-09	0.00914	0.01123	0.04541
-143.1431	0.01723	1.50E-09	0.00911	0.0112	0.04521
-143.6436	0.01713	1.26E-09	0.00909	0.01117	0.04498
-144.1441	0.01704	1.06E-09	0.00907	0.01114	0.0447
-144.6446	0.01694	8.91E-10	0.00905	0.01111	0.04437
-145.1451	0.01685	7.49E-10	0.00903	0.01108	0.04399
-145.6456	0.01676	6.29E-10	0.009	0.01105	0.04354
-146.1461	0.01667	5.29E-10	0.00898	0.01102	0.04302
-146.6467	0.01658	4.44E-10	0.00896	0.01098	0.04241
-147.1471	0.01648	3.74E-10	0.00894	0.01095	0.04171
-147.6476	0.01639	3.14E-10	0.00891	0.01092	0.04091
-148.1481	0.0163	2.64E-10	0.00889	0.01089	0.03999
-148.6487	0.01621	2.22E-10	0.00887	0.01086	0.03895
-149.1492	0.01613	1.86E-10	0.00885	0.01083	0.03778
-149.6496	0.01604	1.57E-10	0.00883	0.0108	0.03647
-150.1501	0.01595	1.32E-10	0.00881	0.01077	0.03504
-150.6507	0.01586	1.11E-10	0.00878	0.01075	0.03348
-151.1512	0.01577	9.30E-11	0.00876	0.01072	0.0318
-151.6517	0.01569	7.82E-11	0.00874	0.01069	0.03001
-152.1521	0.0156	6.57E-11	0.00872	0.01066	0.02814
-152.6526	0.01552	5.52E-11	0.0087	0.01063	0.0262
-153.1532	0.01543	4.64E-11	0.00868	0.0106	0.02422
-153.6537	0.01535	3.90E-11	0.00866	0.01057	0.02224
-154.1542	0.01526	3.28E-11	0.00864	0.01054	0.02028
-154.6546	0.01518	2.75E-11	0.00862	0.01052	0.01836
-155.1552	0.01509	2.32E-11	0.0086	0.01049	0.01652
-155.6557	0.01501	1.95E-11	0.00858	0.01046	0.01476
-156.1562	0.01493	1.64E-11	0.00856	0.01043	0.01312
-156.6567	0.01485	1.37E-11	0.00854	0.0104	0.0116
-157.1572	0.01477	1.16E-11	0.00852	0.01038	0.0102
-157.6577	0.01469	9.71E-12	0.0085	0.01035	0.00892
-158.1582	0.0146	8.16E-12	0.00848	0.01032	0.00778
-158.6587	0.01452	6.86E-12	0.00846	0.01029	0.00675
-159.1592	0.01444	5.76E-12	0.00844	0.01027	0.00585
-159.6597	0.01437	4.84E-12	0.00842	0.01024	0.00505
-160.1602	0.01429	4.07E-12	0.0084	0.01021	0.00434
-160.6607	0.01421	3.42E-12	0.00838	0.01019	0.00373
-161.1612	0.01413	2.88E-12	0.00836	0.01016	0.0032
-161.6617	0.01405	2.42E-12	0.00834	0.01013	0.00274
-162.1622	0.01398	2.03E-12	0.00832	0.01011	0.00234
-162.6627	0.0139	1.71E-12	0.0083	0.01008	0.002
-163.1632	0.01382	1.44E-12	0.00829	0.01005	0.0017
-163.6637	0.01375	1.21E-12	0.00827	0.01003	0.00145

-164.1642	0.01367	1.01E-12	0.00825	0.01	0.00123
-164.6647	0.0136	8.52E-13	0.00823	0.00998	0.00105
-165.1652	0.01352	7.16E-13	0.00821	0.00995	8.92E-04
-165.6657	0.01345	6.02E-13	0.00819	0.00993	7.58E-04
-166.1662	0.01337	5.06E-13	0.00817	0.0099	6.44E-04
-166.6667	0.0133	4.25E-13	0.00816	0.00988	5.47E-04
-167.1672	0.01323	3.57E-13	0.00814	0.00985	4.64E-04
-167.6677	0.01315	3.00E-13	0.00812	0.00983	3.94E-04
-168.1682	0.01308	2.52E-13	0.0081	0.0098	3.34E-04
-168.6687	0.01301	2.12E-13	0.00808	0.00978	2.83E-04
-169.1692	0.01294	1.78E-13	0.00806	0.00975	2.40E-04
-169.6697	0.01287	1.50E-13	0.00805	0.00973	2.04E-04
-170.1702	0.0128	1.26E-13	0.00803	0.0097	1.73E-04
-170.6707	0.01273	1.06E-13	0.00801	0.00968	1.46E-04
-171.1712	0.01266	8.90E-14	0.008	0.00965	1.24E-04
-171.6717	0.01259	7.48E-14	0.00798	0.00963	1.05E-04
-172.1722	0.01252	6.28E-14	0.00796	0.00961	8.92E-05
-172.6727	0.01245	5.28E-14	0.00794	0.00958	7.56E-05
-173.1732	0.01238	4.44E-14	0.00792	0.00956	6.41E-05
-173.6737	0.01231	3.73E-14	0.00791	0.00953	5.43E-05
-174.1742	0.01225	3.14E-14	0.00789	0.00951	4.60E-05
-174.6747	0.01218	2.64E-14	0.00787	0.00949	3.90E-05
-175.1752	0.01211	2.22E-14	0.00786	0.00946	3.30E-05
-175.6757	0.01205	1.86E-14	0.00784	0.00944	2.80E-05
-176.1762	0.01198	1.56E-14	0.00782	0.00942	2.37E-05
-176.6767	0.01191	1.32E-14	0.00781	0.00939	2.01E-05
-177.1772	0.01185	1.11E-14	0.00779	0.00937	1.70E-05
-177.6777	0.01178	9.29E-15	0.00777	0.00935	1.44E-05
-178.1782	0.01172	7.81E-15	0.00776	0.00933	1.22E-05
-178.6787	0.01165	6.56E-15	0.00774	0.0093	1.04E-05
-179.1792	0.01159	5.51E-15	0.00772	0.00928	8.78E-06
-179.6797	0.01153	4.63E-15	0.00771	0.00926	7.44E-06
-180.1802	0.01146	3.90E-15	0.00769	0.00924	6.30E-06
-180.6807	0.0114	3.27E-15	0.00768	0.00921	5.34E-06
-181.1812	0.01134	2.75E-15	0.00766	0.00919	4.53E-06
-181.6817	0.01128	2.31E-15	0.00764	0.00917	3.83E-06
-182.1822	0.01121	1.94E-15	0.00763	0.00915	3.25E-06
-182.6827	0.01115	1.63E-15	0.00761	0.00912	2.75E-06
-183.1832	0.01109	1.37E-15	0.0076	0.0091	2.33E-06
-183.6837	0.01103	1.15E-15	0.00758	0.00908	1.98E-06
-184.1842	0.01097	9.70E-16	0.00756	0.00906	1.67E-06
-184.6847	0.01091	8.15E-16	0.00755	0.00904	1.42E-06
-185.1852	0.01085	6.85E-16	0.00753	0.00902	1.20E-06
-185.6857	0.01079	5.76E-16	0.00752	0.00899	1.02E-06
-186.1862	0.01073	4.84E-16	0.0075	0.00897	8.63E-07
-186.6867	0.01067	4.07E-16	0.00749	0.00895	7.31E-07
-187.1872	0.01061	3.42E-16	0.00747	0.00893	6.20E-07
-187.6877	0.01055	2.87E-16	0.00746	0.00891	5.25E-07
-188.1882	0.0105	2.41E-16	0.00744	0.00889	4.45E-07

-188.6887	0.01044	2.03E-16	0.00743	0.00887	3.77E-07
-189.1892	0.01038	1.71E-16	0.00741	0.00885	3.19E-07
-189.6897	0.01032	1.43E-16	0.00739	0.00883	2.71E-07
-190.1902	0.01027	1.21E-16	0.00738	0.00881	2.29E-07
-190.6907	0.01021	1.01E-16	0.00737	0.00879	1.94E-07
-191.1912	0.01016	8.51E-17	0.00735	0.00877	1.65E-07
-191.6917	0.0101	7.15E-17	0.00734	0.00875	1.39E-07
-192.1922	0.01004	6.01E-17	0.00732	0.00873	1.18E-07
-192.6927	0.00999	5.05E-17	0.00731	0.0087	1.00E-07
-193.1932	0.00993	4.25E-17	0.00729	0.00869	8.48E-08
-193.6937	0.00988	3.57E-17	0.00728	0.00867	7.19E-08
-194.1942	0.00983	3.00E-17	0.00726	0.00864	6.09E-08
-194.6947	0.00977	2.52E-17	0.00725	0.00863	5.16E-08
-195.1952	0.00972	2.12E-17	0.00723	0.00861	4.37E-08
-195.6957	0.00967	1.78E-17	0.00722	0.00859	3.70E-08
-196.1962	0.00961	1.50E-17	0.0072	0.00857	3.14E-08
-196.6967	0.00956	1.26E-17	0.00719	0.00855	2.66E-08
-197.1972	0.00951	1.06E-17	0.00718	0.00853	2.25E-08
-197.6977	0.00945	8.89E-18	0.00716	0.00851	1.91E-08
-198.1982	0.0094	7.47E-18	0.00715	0.00849	1.62E-08
-198.6987	0.00935	6.28E-18	0.00713	0.00847	1.37E-08
-199.1992	0.0093	5.28E-18	0.00712	0.00845	1.16E-08
-199.6997	0.00925	4.44E-18	0.00711	0.00843	9.84E-09
-200.2002	0.0092	3.73E-18	0.00709	0.00841	8.34E-09
-200.7007	0.00915	3.14E-18	0.00708	0.00839	7.06E-09
-201.2012	0.0091	2.64E-18	0.00707	0.00838	5.99E-09
-201.7017	0.00905	2.22E-18	0.00705	0.00836	5.07E-09
-202.2022	0.009	1.87E-18	0.00704	0.00834	4.30E-09
-202.7027	0.00895	1.57E-18	0.00703	0.00832	3.64E-09
-203.2032	0.0089	1.33E-18	0.00701	0.0083	3.09E-09
-203.7037	0.00885	1.12E-18	0.007	0.00828	2.61E-09
-204.2042	0.0088	9.42E-19	0.00698	0.00826	2.22E-09
-204.7047	0.00875	7.95E-19	0.00697	0.00825	1.88E-09
-205.2052	0.0087	6.72E-19	0.00696	0.00823	1.59E-09
-205.7057	0.00866	5.68E-19	0.00694	0.00821	1.35E-09
-206.2062	0.00861	4.82E-19	0.00693	0.00819	1.14E-09
-206.7067	0.00856	4.09E-19	0.00692	0.00817	9.67E-10
-207.2072	0.00852	3.50E-19	0.0069	0.00815	8.19E-10
-207.7077	0.00847	2.96E-19	0.00689	0.00814	6.94E-10
-208.2082	0.00842	2.54E-19	0.00688	0.00812	5.88E-10
-208.7087	0.00838	2.16E-19	0.00687	0.0081	4.98E-10
-209.2092	0.00833	1.86E-19	0.00685	0.00808	4.22E-10
-209.7097	0.00829	1.58E-19	0.00684	0.00806	3.58E-10
-210.2102	0.00824	1.38E-19	0.00683	0.00805	3.03E-10
-210.7107	0.00819	1.19E-19	0.00681	0.00803	2.57E-10
-211.2112	0.00815	1.04E-19	0.0068	0.00801	2.18E-10
-211.7117	0.0081	9.05E-20	0.00679	0.008	1.84E-10
-212.2122	0.00806	7.97E-20	0.00678	0.00798	1.56E-10
-212.7127	0.00801	7.02E-20	0.00676	0.00796	1.32E-10

-213.2132	0.00797	6.31E-20	0.00675	0.00794	1.12E-10
-213.7137	0.00793	5.65E-20	0.00674	0.00793	9.51E-11
-214.2142	0.00788	5.06E-20	0.00673	0.00791	8.05E-11
-214.7147	0.00784	4.71E-20	0.00671	0.00789	6.82E-11
-215.2152	0.0078	4.33E-20	0.0067	0.00788	5.78E-11
-215.7157	0.00775	4.21E-20	0.00669	0.00786	4.90E-11
-216.2162	0.00771	3.82E-20	0.00668	0.00784	4.15E-11
-216.7167	0.00767	3.79E-20	0.00666	0.00782	3.52E-11
-217.2172	0.00763	3.33E-20	0.00665	0.00781	2.98E-11
-217.7177	0.00759	3.57E-20	0.00664	0.00779	2.53E-11
-218.2182	0.00754	3.22E-20	0.00663	0.00777	2.14E-11
-218.7187	0.0075	3.53E-20	0.00662	0.00776	1.81E-11
-219.2192	0.00746	3.04E-20	0.0066	0.00774	1.54E-11
-219.7197	0.00742	3.22E-20	0.00659	0.00773	1.30E-11
-220.2202	0.00738	2.92E-20	0.00658	0.00771	1.10E-11
-220.7207	0.00734	3.09E-20	0.00657	0.00769	9.34E-12
-221.2212	0.0073	2.93E-20	0.00656	0.00768	7.92E-12
-221.7217	0.00726	3.03E-20	0.00654	0.00766	6.71E-12
-222.2222	0.00722	3.05E-20	0.00653	0.00764	5.68E-12
-222.7227	0.00718	2.97E-20	0.00652	0.00763	4.82E-12
-223.2232	0.00714	3.11E-20	0.00651	0.00761	4.08E-12
-223.7237	0.0071	2.94E-20	0.0065	0.0076	3.46E-12
-224.2242	0.00706	3.21E-20	0.00649	0.00758	2.93E-12
-224.7247	0.00702	2.91E-20	0.00647	0.00756	2.48E-12
-225.2252	0.00698	3.09E-20	0.00646	0.00755	2.10E-12
-225.7257	0.00695	2.76E-20	0.00645	0.00753	1.78E-12
-226.2262	0.00691	2.95E-20	0.00644	0.00752	1.51E-12
-226.7267	0.00687	2.82E-20	0.00643	0.0075	1.28E-12
-227.2272	0.00683	2.90E-20	0.00642	0.00749	1.08E-12
-227.7277	0.00679	2.75E-20	0.00641	0.00747	9.18E-13
-228.2282	0.00676	2.79E-20	0.00639	0.00745	7.78E-13
-228.7287	0.00672	2.74E-20	0.00638	0.00744	6.59E-13
-229.2292	0.00668	2.79E-20	0.00637	0.00742	5.59E-13
-229.7297	0.00665	2.74E-20	0.00636	0.00741	4.73E-13
-230.2302	0.00661	2.63E-20	0.00635	0.00739	4.01E-13
-230.7307	0.00658	2.63E-20	0.00634	0.00738	3.40E-13
-231.2312	0.00654	2.43E-20	0.00633	0.00736	2.88E-13
-231.7317	0.0065	2.54E-20	0.00632	0.00735	2.44E-13
-232.2322	0.00647	2.39E-20	0.0063	0.00733	2.07E-13
-232.7327	0.00643	2.40E-20	0.00629	0.00732	1.75E-13
-233.2332	0.0064	2.35E-20	0.00628	0.0073	1.48E-13
-233.7337	0.00636	2.36E-20	0.00627	0.00729	1.26E-13
-234.2342	0.00633	2.21E-20	0.00626	0.00727	1.07E-13
-234.7347	0.00629	2.34E-20	0.00625	0.00726	9.03E-14
-235.2352	0.00626	2.08E-20	0.00624	0.00724	7.65E-14
-235.7357	0.00622	2.20E-20	0.00623	0.00723	6.48E-14
-236.2362	0.00619	2.10E-20	0.00622	0.00722	5.49E-14
-236.7367	0.00615	2.12E-20	0.00621	0.0072	4.65E-14
-237.2372	0.00612	2.06E-20	0.0062	0.00719	3.94E-14

-237.7377	0.00609	2.04E-20	0.00619	0.00717	3.34E-14
-238.2382	0.00605	1.99E-20	0.00617	0.00716	2.83E-14
-238.7387	0.00602	2.00E-20	0.00617	0.00714	2.40E-14
-239.2392	0.00599	1.99E-20	0.00615	0.00713	2.03E-14
-239.7397	0.00596	1.93E-20	0.00614	0.00711	1.72E-14
-240.2402	0.00592	1.96E-20	0.00613	0.0071	1.46E-14
-240.7407	0.00589	1.88E-20	0.00612	0.00709	1.24E-14
-241.2412	0.00586	1.90E-20	0.00611	0.00707	1.05E-14
-241.7417	0.00583	1.78E-20	0.0061	0.00706	8.87E-15
-242.2422	0.00579	1.86E-20	0.00609	0.00704	7.52E-15
-242.7427	0.00576	1.73E-20	0.00608	0.00703	6.37E-15
-243.2432	0.00573	1.73E-20	0.00607	0.00702	5.40E-15
-243.7437	0.0057	1.61E-20	0.00606	0.007	4.57E-15
-244.2442	0.00567	1.56E-20	0.00605	0.00699	3.87E-15
-244.7448	0.00564	1.62E-20	0.00604	0.00697	3.28E-15
-245.2452	0.0056	1.54E-20	0.00603	0.00696	2.78E-15
-245.7457	0.00557	1.58E-20	0.00602	0.00695	2.36E-15
-246.2462	0.00554	1.41E-20	0.00601	0.00693	2.00E-15
-246.7467	0.00551	1.35E-20	0.006	0.00692	1.69E-15
-247.2473	0.00548	1.28E-20	0.00599	0.00691	1.43E-15
-247.7477	0.00545	1.26E-20	0.00598	0.00689	1.21E-15
-248.2482	0.00542	1.33E-20	0.00597	0.00688	1.03E-15
-248.7487	0.00539	1.22E-20	0.00596	0.00686	8.72E-16
-249.2493	0.00536	1.20E-20	0.00595	0.00685	7.39E-16
-249.7498	0.00533	9.93E-21	0.00594	0.00684	6.26E-16
-250.2502	0.0053	9.80E-21	0.00593	0.00683	5.30E-16
-250.7507	0.00528	9.78E-21	0.00592	0.00681	4.49E-16
-251.2513	0.00525	9.87E-21	0.00591	0.0068	3.81E-16
-251.7518	0.00522	9.57E-21	0.0059	0.00679	3.23E-16
-252.2523	0.00519	8.57E-21	0.00589	0.00677	2.73E-16
-252.7527	0.00516	7.55E-21	0.00588	0.00676	2.32E-16
-253.2533	0.00513	6.77E-21	0.00587	0.00675	1.96E-16
-253.7538	0.0051	7.06E-21	0.00586	0.00673	1.66E-16
-254.2543	0.00508	7.57E-21	0.00585	0.00672	1.41E-16
-254.7548	0.00505	7.04E-21	0.00585	0.00671	1.19E-16
-255.2552	0.00502	6.56E-21	0.00583	0.0067	1.01E-16
-255.7558	0.00499	5.30E-21	0.00583	0.00668	8.57E-17
-256.2563	0.00496	4.98E-21	0.00582	0.00667	7.26E-17
-256.7567	0.00494	5.57E-21	0.00581	0.00666	6.15E-17
-257.2573	0.00491	5.61E-21	0.0058	0.00664	5.21E-17
-257.7578	0.00488	5.74E-21	0.00579	0.00663	4.42E-17
-258.2583	0.00486	4.86E-21	0.00578	0.00662	3.74E-17
-258.7588	0.00483	4.43E-21	0.00577	0.00661	3.17E-17
-259.2592	0.0048	4.09E-21	0.00576	0.00659	2.69E-17
-259.7598	0.00478	4.29E-21	0.00575	0.00658	2.28E-17
-260.2603	0.00475	4.21E-21	0.00574	0.00657	1.93E-17
-260.7608	0.00473	4.09E-21	0.00573	0.00656	1.63E-17
-261.2613	0.0047	4.04E-21	0.00572	0.00654	1.39E-17
-261.7617	0.00467	3.41E-21	0.00571	0.00653	1.17E-17

-262.2623	0.00465	3.75E-21	0.00571	0.00652	9.94E-18
-262.7628	0.00462	3.23E-21	0.0057	0.00651	8.42E-18
-263.2633	0.0046	3.58E-21	0.00569	0.00649	7.14E-18
-263.7638	0.00457	3.24E-21	0.00568	0.00648	6.05E-18
-264.2643	0.00455	3.22E-21	0.00567	0.00647	5.12E-18
-264.7648	0.00452	2.97E-21	0.00566	0.00646	4.34E-18
-265.2653	0.0045	2.94E-21	0.00565	0.00645	3.68E-18
-265.7658	0.00447	2.99E-21	0.00564	0.00643	3.12E-18
-266.2663	0.00445	2.78E-21	0.00563	0.00642	2.64E-18
-266.7668	0.00442	2.76E-21	0.00562	0.00641	2.24E-18
-267.2673	0.0044	2.46E-21	0.00562	0.0064	1.90E-18
-267.7678	0.00438	2.46E-21	0.00561	0.00639	1.61E-18
-268.2683	0.00435	2.34E-21	0.0056	0.00637	1.36E-18
-268.7688	0.00433	2.31E-21	0.00559	0.00636	1.15E-18
-269.2693	0.0043	2.20E-21	0.00558	0.00635	9.77E-19
-269.7698	0.00428	2.10E-21	0.00557	0.00634	8.28E-19
-270.2703	0.00426	1.99E-21	0.00556	0.00633	7.01E-19
-270.7708	0.00423	1.93E-21	0.00555	0.00632	5.94E-19
-271.2713	0.00421	1.83E-21	0.00555	0.0063	5.04E-19
-271.7718	0.00419	1.72E-21	0.00554	0.00629	4.27E-19
-272.2723	0.00416	1.53E-21	0.00553	0.00628	3.62E-19
-272.7728	0.00414	1.52E-21	0.00552	0.00627	3.06E-19
-273.2733	0.00412	1.37E-21	0.00551	0.00626	2.60E-19
-273.7738	0.00409	1.43E-21	0.0055	0.00624	2.20E-19
-274.2743	0.00407	1.22E-21	0.00549	0.00623	1.86E-19
-274.7748	0.00405	1.13E-21	0.00549	0.00622	1.58E-19
-275.2753	0.00403	9.71E-22	0.00548	0.00621	1.34E-19
-275.7758	0.00401	9.23E-22	0.00547	0.0062	1.13E-19
-276.2763	0.00398	1.03E-21	0.00546	0.00619	9.60E-20
-276.7768	0.00396	9.02E-22	0.00545	0.00618	8.14E-20
-277.2773	0.00394	9.20E-22	0.00544	0.00617	6.89E-20
-277.7778	0.00392	7.33E-22	0.00543	0.00615	5.84E-20
-278.2783	0.0039	7.73E-22	0.00543	0.00614	4.95E-20
-278.7788	0.00388	7.15E-22	0.00542	0.00613	4.19E-20
-279.2793	0.00385	7.47E-22	0.00541	0.00612	3.55E-20
-279.7798	0.00383	6.72E-22	0.0054	0.00611	3.01E-20
-280.2803	0.00381	6.59E-22	0.00539	0.0061	2.55E-20
-280.7808	0.00379	5.87E-22	0.00539	0.00609	2.16E-20
-281.2813	0.00377	5.35E-22	0.00538	0.00608	1.83E-20
-281.7818	0.00375	5.17E-22	0.00537	0.00607	1.55E-20
-282.2823	0.00373	4.39E-22	0.00536	0.00605	1.32E-20
-282.7828	0.00371	5.14E-22	0.00535	0.00604	1.11E-20
-283.2833	0.00369	4.23E-22	0.00534	0.00603	9.44E-21
-283.7838	0.00367	4.61E-22	0.00534	0.00602	8.00E-21
-284.2843	0.00365	3.64E-22	0.00533	0.00601	6.78E-21
-284.7848	0.00363	3.91E-22	0.00532	0.006	5.74E-21
-285.2853	0.00361	3.67E-22	0.00531	0.00599	4.87E-21
-285.7858	0.00359	3.68E-22	0.0053	0.00598	4.12E-21
-286.2863	0.00357	3.41E-22	0.0053	0.00597	3.49E-21

-286.7868	0.00355	3.29E-22	0.00529	0.00596	2.96E-21
-287.2873	0.00353	3.01E-22	0.00528	0.00595	2.51E-21
-287.7878	0.00351	2.73E-22	0.00527	0.00594	2.12E-21
-288.2883	0.00349	2.63E-22	0.00526	0.00593	1.80E-21
-288.7888	0.00347	2.16E-22	0.00526	0.00592	1.53E-21
-289.2893	0.00345	2.40E-22	0.00525	0.0059	1.29E-21
-289.7898	0.00343	1.93E-22	0.00524	0.0059	1.10E-21
-290.2903	0.00342	2.05E-22	0.00523	0.00588	9.28E-22
-290.7908	0.0034	1.57E-22	0.00523	0.00587	7.86E-22
-291.2913	0.00338	1.48E-22	0.00522	0.00586	6.66E-22
-291.7918	0.00336	1.48E-22	0.00521	0.00585	5.64E-22
-292.2923	0.00334	1.37E-22	0.0052	0.00584	4.78E-22
-292.7928	0.00332	1.46E-22	0.0052	0.00583	4.05E-22
-293.2933	0.0033	1.19E-22	0.00519	0.00582	3.43E-22
-293.7938	0.00329	1.19E-22	0.00518	0.00581	2.91E-22
-294.2943	0.00327	1.02E-22	0.00517	0.0058	2.46E-22
-294.7948	0.00325	1.08E-22	0.00517	0.00579	2.09E-22
-295.2953	0.00323	9.60E-23	0.00516	0.00578	1.77E-22
-295.7958	0.00322	9.65E-23	0.00515	0.00577	1.50E-22
-296.2963	0.0032	8.23E-23	0.00514	0.00576	1.27E-22
-296.7968	0.00318	7.89E-23	0.00513	0.00575	1.08E-22
-297.2973	0.00316	7.20E-23	0.00513	0.00574	9.12E-23
-297.7978	0.00314	6.18E-23	0.00512	0.00573	7.73E-23
-298.2983	0.00313	6.05E-23	0.00511	0.00572	6.55E-23
-298.7988	0.00311	5.20E-23	0.00511	0.00571	5.55E-23
-299.2993	0.00309	5.87E-23	0.0051	0.0057	4.70E-23
-299.7998	0.00308	4.84E-23	0.00509	0.00569	3.98E-23
-300.3003	0.00306	5.10E-23	0.00508	0.00568	3.37E-23
-300.8008	0.00304	4.05E-23	0.00508	0.00567	2.86E-23
-301.3013	0.00303	4.18E-23	0.00507	0.00566	2.42E-23
-301.8018	0.00301	3.71E-23	0.00506	0.00565	2.05E-23
-302.3023	0.00299	3.53E-23	0.00505	0.00564	1.74E-23
-302.8028	0.00298	3.11E-23	0.00505	0.00563	1.47E-23
-303.3033	0.00296	2.66E-23	0.00504	0.00562	1.25E-23
-303.8038	0.00294	2.79E-23	0.00503	0.00561	1.06E-23
-304.3043	0.00293	2.38E-23	0.00503	0.0056	8.96E-24
-304.8048	0.00291	2.64E-23	0.00502	0.00559	7.59E-24
-305.3053	0.0029	1.97E-23	0.00501	0.00558	6.43E-24
-305.8058	0.00288	2.08E-23	0.005	0.00558	5.45E-24
-306.3063	0.00286	1.77E-23	0.005	0.00557	4.62E-24
-306.8068	0.00285	1.76E-23	0.00499	0.00556	3.91E-24
-307.3073	0.00283	1.55E-23	0.00498	0.00555	3.32E-24
-307.8078	0.00282	1.35E-23	0.00498	0.00554	2.81E-24
-308.3083	0.0028	1.26E-23	0.00497	0.00553	2.38E-24
-308.8088	0.00279	1.11E-23	0.00496	0.00552	2.02E-24
-309.3093	0.00277	1.28E-23	0.00495	0.00551	1.71E-24
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-310.8108	0.00273	8.48E-24	0.00493	0.00548	1.04E-24

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-311.8118	0.00269	7.67E-24	0.00492	0.00546	7.46E-25
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-312.8128	0.00267	6.22E-24	0.0049	0.00544	5.36E-25
-313.3133	0.00265	5.27E-24	0.0049	0.00543	4.54E-25
-313.8138	0.00264	5.64E-24	0.00489	0.00543	3.85E-25
-314.3143	0.00262	4.69E-24	0.00488	0.00542	3.26E-25
-314.8148	0.00261	5.03E-24	0.00488	0.00541	2.76E-25
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-315.8158	0.00258	3.40E-24	0.00486	0.00539	1.98E-25
-316.3163	0.00257	3.22E-24	0.00486	0.00538	1.68E-25
-316.8168	0.00255	2.97E-24	0.00485	0.00537	1.42E-25
-317.3173	0.00254	3.20E-24	0.00484	0.00536	1.21E-25
-317.8178	0.00252	2.54E-24	0.00484	0.00535	1.02E-25
-318.3183	0.00251	2.33E-24	0.00483	0.00534	8.66E-26
-318.8188	0.0025	1.75E-24	0.00482	0.00534	7.34E-26
-319.3193	0.00248	1.70E-24	0.00482	0.00533	6.22E-26
-319.8198	0.00247	1.99E-24	0.00481	0.00532	5.27E-26
-320.3203	0.00246	1.71E-24	0.0048	0.00531	4.46E-26
-320.8208	0.00244	1.69E-24	0.0048	0.0053	3.78E-26
-321.3213	0.00243	1.23E-24	0.00479	0.00529	3.20E-26
-321.8218	0.00241	1.11E-24	0.00478	0.00528	2.71E-26
-322.3223	0.0024	1.10E-24	0.00478	0.00527	2.30E-26
-322.8228	0.00239	1.03E-24	0.00477	0.00526	1.95E-26
-323.3233	0.00237	1.13E-24	0.00476	0.00526	1.65E-26
-323.8238	0.00236	8.91E-25	0.00476	0.00525	1.40E-26
-324.3243	0.00235	8.94E-25	0.00475	0.00524	1.19E-26
-324.8248	0.00234	7.21E-25	0.00474	0.00523	1.00E-26
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-325.8258	0.00231	6.35E-25	0.00473	0.00521	7.21E-27
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-331.8318	0.00216	1.91E-25	0.00466	0.00511	9.84E-28
-332.3323	0.00215	1.76E-25	0.00465	0.0051	8.34E-28
-332.8328	0.00214	1.52E-25	0.00464	0.0051	7.06E-28
-333.3333	0.00213	1.45E-25	0.00464	0.00509	5.98E-28
-333.8338	0.00212	1.64E-25	0.00463	0.00508	5.06E-28
-334.3343	0.0021	1.34E-25	0.00462	0.00507	4.28E-28
-334.8348	0.00209	1.32E-25	0.00462	0.00506	3.62E-28
-335.3353	0.00208	1.02E-25	0.00461	0.00505	3.07E-28

-335.8358	0.00207	1.09E-25	0.0046	0.00505	2.59E-28
-336.3363	0.00206	9.55E-26	0.0046	0.00504	2.19E-28
-336.8368	0.00205	9.22E-26	0.00459	0.00503	1.85E-28
-337.3373	0.00204	7.70E-26	0.00459	0.00502	1.56E-28
-337.8378	0.00202	6.67E-26	0.00458	0.00501	1.32E-28
-338.3383	0.00201	6.41E-26	0.00458	0.00501	1.11E-28
-338.8388	0.002	5.51E-26	0.00457	0.005	9.35E-29
-339.3393	0.00199	6.25E-26	0.00456	0.00499	7.86E-29
-339.8398	0.00198	4.84E-26	0.00456	0.00498	6.60E-29
-340.3403	0.00197	4.88E-26	0.00455	0.00497	5.51E-29
-340.8409	0.00196	3.62E-26	0.00454	0.00497	4.60E-29
-341.3413	0.00195	3.26E-26	0.00454	0.00496	3.81E-29
-341.8418	0.00194	3.65E-26	0.00453	0.00495	3.15E-29
-342.3423	0.00193	3.19E-26	0.00453	0.00494	2.57E-29
-342.8428	0.00192	3.36E-26	0.00452	0.00494	2.07E-29
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-344.3443	0.00189	1.98E-26	0.0045	0.00491	0
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-345.3453	0.00186	2.09E-26	0.00449	0.0049	0
-345.8459	0.00185	1.76E-26	0.00449	0.00489	0
-346.3463	0.00184	1.80E-26	0.00448	0.00488	0
-346.8468	0.00183	1.36E-26	0.00447	0.00487	0
-347.3474	0.00182	1.43E-26	0.00447	0.00487	0
-347.8478	0.00181	1.27E-26	0.00446	0.00486	0
-348.3484	0.0018	1.30E-26	0.00446	0.00485	0
-348.8488	0.00179	1.13E-26	0.00445	0.00484	0
-349.3493	0.00178	1.12E-26	0.00444	0.00483	0
-349.8499	0.00177	1.00E-26	0.00444	0.00483	0
-350.3503	0.00176	9.73E-27	0.00443	0.00482	0
-350.8509	0.00176	8.96E-27	0.00443	0.00481	0
-351.3513	0.00175	8.13E-27	0.00442	0.0048	0
-351.8518	0.00174	7.33E-27	0.00441	0.0048	0
-352.3524	0.00173	6.16E-27	0.00441	0.00479	0
-352.8528	0.00172	7.01E-27	0.0044	0.00478	0
-353.3534	0.00171	6.09E-27	0.0044	0.00477	0
-353.8539	0.0017	6.42E-27	0.00439	0.00477	0
-354.3543	0.00169	4.89E-27	0.00439	0.00476	0
-354.8549	0.00168	4.52E-27	0.00438	0.00475	0
-355.3553	0.00167	4.61E-27	0.00438	0.00474	0
-355.8559	0.00166	4.35E-27	0.00437	0.00474	0
-356.3564	0.00165	4.71E-27	0.00436	0.00473	0
-356.8568	0.00164	3.77E-27	0.00436	0.00472	0
-357.3574	0.00163	3.75E-27	0.00435	0.00471	0
-357.8578	0.00162	3.19E-27	0.00435	0.00471	0
-358.3584	0.00162	3.44E-27	0.00434	0.0047	0
-358.8589	0.00161	3.01E-27	0.00434	0.00469	0
-359.3593	0.0016	3.04E-27	0.00433	0.00469	0
-359.8599	0.00159	2.57E-27	0.00432	0.00468	0

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-360.8609	0.00157	2.44E-27	0.00431	0.00466	0
-361.3614	0.00156	2.38E-27	0.00431	0.00466	0
-361.8618	0.00155	2.26E-27	0.0043	0.00465	0
-362.3624	0.00155	2.18E-27	0.0043	0.00464	0
-362.8629	0.00154	2.08E-27	0.00429	0.00464	0
-363.3634	0.00153	2.14E-27	0.00429	0.00463	0
-363.8639	0.00152	2.09E-27	0.00428	0.00462	0
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-365.3654	0.0015	1.88E-27	0.00427	0.0046	0
-365.8659	0.00149	1.80E-27	0.00426	0.00459	0
-366.3664	0.00148	1.57E-27	0.00426	0.00459	0
-366.8669	0.00147	1.68E-27	0.00425	0.00458	0
-367.3674	0.00146	1.43E-27	0.00424	0.00457	0
-367.8679	0.00145	1.52E-27	0.00424	0.00456	0
-368.3684	0.00145	1.22E-27	0.00423	0.00456	0
-368.8689	0.00144	1.15E-27	0.00423	0.00455	0
-369.3694	0.00143	1.19E-27	0.00422	0.00454	0
-369.8699	0.00142	1.16E-27	0.00422	0.00454	0
-370.3704	0.00142	1.30E-27	0.00421	0.00453	0
-370.8709	0.00141	1.10E-27	0.00421	0.00452	0
-371.3714	0.0014	1.15E-27	0.0042	0.00452	0
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-372.3724	0.00138	1.14E-27	0.00419	0.0045	0
-372.8729	0.00138	1.03E-27	0.00419	0.0045	0
-373.3734	0.00137	1.03E-27	0.00418	0.00449	0
-373.8739	0.00136	9.61E-28	0.00418	0.00448	0
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-374.8749	0.00135	1.03E-27	0.00417	0.00447	0
-375.3754	0.00134	9.44E-28	0.00416	0.00446	0
-375.8759	0.00133	9.92E-28	0.00415	0.00446	0
-376.3764	0.00133	9.24E-28	0.00415	0.00445	0
-376.8769	0.00132	9.17E-28	0.00415	0.00444	0
-377.3774	0.00131	8.98E-28	0.00414	0.00444	0
-377.8779	0.0013	8.91E-28	0.00413	0.00443	0
-378.3784	0.0013	8.36E-28	0.00413	0.00442	0
-378.8789	0.00129	7.77E-28	0.00413	0.00442	0
-379.3794	0.00128	7.64E-28	0.00412	0.00441	0
-379.8799	0.00128	6.65E-28	0.00411	0.0044	0
-380.3804	0.00127	7.53E-28	0.00411	0.0044	0
-380.8809	0.00126	6.43E-28	0.00411	0.00439	0
-381.3814	0.00125	7.49E-28	0.0041	0.00438	0
-381.8819	0.00125	6.24E-28	0.00409	0.00438	0
-382.3824	0.00124	6.97E-28	0.00409	0.00437	0
-382.8829	0.00123	6.76E-28	0.00409	0.00436	0
-383.3834	0.00123	7.38E-28	0.00408	0.00436	0
-383.8839	0.00122	7.66E-28	0.00407	0.00435	0
-384.3844	0.00121	7.69E-28	0.00407	0.00434	0

-384.8849	0.00121	7.77E-28	0.00407	0.00434	0
-385.3854	0.0012	7.25E-28	0.00406	0.00433	0
-385.8859	0.00119	8.15E-28	0.00405	0.00432	0
-386.3864	0.00119	6.93E-28	0.00405	0.00432	0
-386.8869	0.00118	7.89E-28	0.00405	0.00431	0
-387.3874	0.00117	6.29E-28	0.00404	0.00431	0
-387.8879	0.00117	7.09E-28	0.00404	0.0043	0
-388.3884	0.00116	6.13E-28	0.00403	0.00429	0
-388.8889	0.00116	6.37E-28	0.00403	0.00429	0
-389.3894	0.00115	5.73E-28	0.00402	0.00428	0
-389.8899	0.00114	5.62E-28	0.00402	0.00427	0
-390.3904	0.00114	4.97E-28	0.00401	0.00427	0
-390.8909	0.00113	4.79E-28	0.00401	0.00426	0
-391.3914	0.00112	4.63E-28	0.004	0.00426	0
-391.8919	0.00112	4.45E-28	0.004	0.00425	0
-392.3924	0.00111	4.42E-28	0.00399	0.00424	0
-392.8929	0.00111	3.94E-28	0.00399	0.00424	0
-393.3934	0.0011	4.37E-28	0.00398	0.00423	0
-393.8939	0.00109	4.07E-28	0.00398	0.00422	0
-394.3944	0.00109	5.00E-28	0.00397	0.00422	0
-394.8949	0.00108	4.35E-28	0.00397	0.00421	0
-395.3954	0.00108	4.80E-28	0.00396	0.00421	0
-395.8959	0.00107	4.17E-28	0.00396	0.0042	0
-396.3964	0.00106	4.45E-28	0.00395	0.00419	0
-396.8969	0.00106	5.00E-28	0.00395	0.00419	0
-397.3974	0.00105	4.82E-28	0.00394	0.00418	0
-397.8979	0.00105	5.23E-28	0.00394	0.00418	0
-398.3984	0.00104	4.28E-28	0.00394	0.00417	0
-398.8989	0.00103	4.41E-28	0.00393	0.00416	0
-399.3994	0.00103	3.49E-28	0.00393	0.00416	0
-399.8999	0.00102	3.40E-28	0.00392	0.00415	0
-400.4004	0.00102	2.59E-28	0.00392	0.00415	0
-400.9009	0.00101	2.53E-28	0.00391	0.00414	0
-401.4014	0.00101	2.17E-28	0.00391	0.00413	0
-401.9019	0.001	2.20E-28	0.0039	0.00413	0
-402.4024	9.95E-04	2.05E-28	0.0039	0.00412	0
-402.9029	9.90E-04	2.19E-28	0.00389	0.00412	0
-403.4034	9.84E-04	2.14E-28	0.00389	0.00411	0
-403.9039	9.79E-04	2.28E-28	0.00389	0.0041	0
-404.4044	9.74E-04	2.33E-28	0.00388	0.0041	0
-404.9049	9.68E-04	2.54E-28	0.00388	0.00409	0
-405.4054	9.63E-04	2.72E-28	0.00387	0.00409	0
-405.9059	9.58E-04	2.73E-28	0.00387	0.00408	0
-406.4064	9.52E-04	2.99E-28	0.00386	0.00407	0
-406.9069	9.47E-04	2.72E-28	0.00386	0.00407	0
-407.4074	9.42E-04	3.41E-28	0.00385	0.00406	0
-407.9079	9.37E-04	3.00E-28	0.00385	0.00406	0
-408.4084	9.32E-04	3.69E-28	0.00384	0.00405	0
-408.9089	9.27E-04	2.84E-28	0.00384	0.00405	0

-409.4094	9.22E-04	3.09E-28	0.00383	0.00404	0
-409.9099	9.16E-04	2.75E-28	0.00383	0.00403	0
-410.4104	9.11E-04	2.68E-28	0.00383	0.00403	0
-410.9109	9.06E-04	2.19E-28	0.00382	0.00402	0
-411.4114	9.01E-04	1.93E-28	0.00382	0.00402	0
-411.9119	8.97E-04	1.57E-28	0.00381	0.00401	0
-412.4124	8.92E-04	1.43E-28	0.00381	0.004	0
-412.9129	8.87E-04	1.16E-28	0.0038	0.004	0
-413.4134	8.82E-04	1.09E-28	0.0038	0.00399	0
-413.9139	8.77E-04	1.21E-28	0.0038	0.00399	0
-414.4144	8.72E-04	1.04E-28	0.00379	0.00398	0
-414.9149	8.67E-04	1.19E-28	0.00379	0.00398	0
-415.4154	8.63E-04	1.01E-28	0.00378	0.00397	0
-415.9159	8.58E-04	1.24E-28	0.00378	0.00397	0
-416.4164	8.53E-04	1.31E-28	0.00377	0.00396	0
-416.9169	8.49E-04	1.58E-28	0.00377	0.00396	0
-417.4174	8.44E-04	1.68E-28	0.00376	0.00395	0
-417.9179	8.39E-04	1.75E-28	0.00376	0.00394	0
-418.4184	8.35E-04	2.00E-28	0.00376	0.00394	0
-418.9189	8.30E-04	1.83E-28	0.00375	0.00393	0
-419.4194	8.25E-04	2.60E-28	0.00375	0.00393	0
-419.9199	8.21E-04	2.14E-28	0.00374	0.00392	0
-420.4204	8.16E-04	2.32E-28	0.00374	0.00392	0
-420.9209	8.12E-04	1.48E-28	0.00373	0.00391	0
-421.4214	8.08E-04	1.39E-28	0.00373	0.00391	0
-421.9219	8.03E-04	1.81E-28	0.00373	0.0039	0
-422.4224	7.99E-04	1.42E-28	0.00372	0.00389	0
-422.9229	7.94E-04	1.39E-28	0.00372	0.00389	0
-423.4234	7.90E-04	1.06E-28	0.00371	0.00388	0
-423.9239	7.86E-04	9.75E-29	0.00371	0.00388	0
-424.4244	7.81E-04	8.21E-29	0.00371	0.00387	0
-424.9249	7.77E-04	7.52E-29	0.0037	0.00387	0
-425.4254	7.73E-04	5.46E-29	0.0037	0.00386	0
-425.9259	7.68E-04	5.06E-29	0.00369	0.00386	0
-426.4264	7.64E-04	4.07E-29	0.00369	0.00385	0
-426.9269	7.60E-04	3.88E-29	0.00368	0.00385	0
-427.4274	7.56E-04	3.55E-29	0.00368	0.00384	0
-427.9279	7.52E-04	4.42E-29	0.00367	0.00383	0
-428.4284	7.48E-04	4.23E-29	0.00367	0.00383	0
-428.9289	7.44E-04	5.51E-29	0.00367	0.00382	0
-429.4294	7.39E-04	5.23E-29	0.00366	0.00382	0
-429.9299	7.35E-04	6.82E-29	0.00366	0.00381	0
-430.4304	7.31E-04	5.66E-29	0.00365	0.00381	0
-430.9309	7.27E-04	5.84E-29	0.00365	0.0038	0
-431.4314	7.23E-04	3.81E-29	0.00365	0.0038	0
-431.9319	7.19E-04	3.00E-29	0.00364	0.00379	0
-432.4324	7.15E-04	4.45E-29	0.00364	0.00379	0
-432.9329	7.12E-04	3.40E-29	0.00363	0.00378	0
-433.4334	7.08E-04	3.05E-29	0.00363	0.00378	0

-433.9339	7.04E-04	1.96E-29	0.00363	0.00377	0
-434.4344	7.00E-04	1.59E-29	0.00362	0.00377	0
-434.9349	6.96E-04	1.47E-29	0.00362	0.00376	0
-435.4354	6.92E-04	1.07E-29	0.00361	0.00376	0
-435.9359	6.88E-04	8.23E-30	0.00361	0.00375	0
-436.4364	6.85E-04	6.94E-30	0.00361	0.00375	0
-436.937	6.81E-04	6.22E-30	0.0036	0.00374	0
-437.4374	6.77E-04	3.90E-30	0.0036	0.00374	0
-437.9379	6.73E-04	3.39E-30	0.00359	0.00373	0
-438.4384	6.70E-04	2.75E-30	0.00359	0.00373	0
-438.9389	6.66E-04	2.04E-30	0.00359	0.00372	0
-439.4395	6.62E-04	1.09E-30	0.00358	0.00372	0
-439.9399	6.59E-04	1.01E-30	0.00358	0.00371	0
-440.4404	6.55E-04	8.07E-31	0.00357	0.00371	0
-440.9409	6.52E-04	4.31E-31	0.00357	0.0037	0
-441.4414	6.48E-04	1.76E-31	0.00357	0.00369	0
-441.942	6.44E-04	9.62E-32	0.00356	0.00369	0
-442.4424	6.41E-04	1.03E-31	0.00356	0.00368	0
-442.9429	6.37E-04	0	0.00355	0.00368	0
-443.4435	6.34E-04	0	0.00355	0.00367	0
-443.9439	6.30E-04	0	0.00355	0.00367	0
-444.4445	6.27E-04	0	0.00354	0.00366	0
-444.9449	6.23E-04	0	0.00354	0.00366	0
-445.4454	6.20E-04	0	0.00353	0.00366	0
-445.946	6.17E-04	0	0.00353	0.00365	0
-446.4464	6.13E-04	0	0.00353	0.00365	0
-446.947	6.10E-04	0	0.00352	0.00364	0
-447.4474	6.07E-04	0	0.00352	0.00364	0
-447.9479	6.03E-04	0	0.00351	0.00363	0
-448.4485	6.00E-04	0	0.00351	0.00363	0
-448.9489	5.97E-04	0	0.00351	0.00362	0
-449.4495	5.93E-04	0	0.0035	0.00362	0
-449.95	5.90E-04	0	0.0035	0.00361	0
-450.4504	5.87E-04	0	0.0035	0.00361	0
-450.951	5.84E-04	0	0.00349	0.0036	0
-451.4514	5.80E-04	0	0.00349	0.0036	0
-451.952	5.77E-04	0	0.00348	0.00359	0
-452.4525	5.74E-04	0	0.00348	0.00359	0
-452.9529	5.71E-04	0	0.00348	0.00358	0
-453.4535	5.68E-04	0	0.00347	0.00358	0
-453.9539	5.65E-04	0	0.00347	0.00357	0
-454.4545	5.62E-04	0	0.00347	0.00357	0
-454.955	5.58E-04	0	0.00346	0.00356	0
-455.4554	5.55E-04	0	0.00346	0.00356	0
-455.956	5.52E-04	0	0.00346	0.00355	0
-456.4565	5.49E-04	0	0.00345	0.00355	0
-456.957	5.46E-04	0	0.00345	0.00354	0
-457.4575	5.43E-04	0	0.00344	0.00354	0
-457.9579	5.40E-04	0	0.00344	0.00353	0

-458.4585	5.37E-04	0	0.00344	0.00353	0
-458.959	5.34E-04	0	0.00343	0.00353	0
-459.4595	5.31E-04	0	0.00343	0.00352	0
-459.96	5.29E-04	0	0.00343	0.00352	0
-460.4604	5.26E-04	0	0.00342	0.00351	0
-460.961	5.23E-04	0	0.00342	0.00351	0
-461.4615	5.20E-04	0	0.00341	0.0035	0
-461.962	5.17E-04	0	0.00341	0.0035	0
-462.4625	5.14E-04	0	0.00341	0.00349	0
-462.963	5.11E-04	0	0.0034	0.00349	0
-463.4635	5.09E-04	0	0.0034	0.00348	0
-463.964	5.06E-04	0	0.0034	0.00348	0
-464.4645	5.03E-04	0	0.00339	0.00347	0
-464.965	5.00E-04	0	0.00339	0.00347	0
-465.4655	4.98E-04	0	0.00339	0.00347	0
-465.966	4.95E-04	0	0.00338	0.00346	0
-466.4665	4.92E-04	0	0.00338	0.00346	0
-466.967	4.89E-04	0	0.00337	0.00345	0
-467.4675	4.87E-04	0	0.00337	0.00345	0
-467.968	4.84E-04	0	0.00337	0.00344	0
-468.4685	4.81E-04	0	0.00336	0.00344	0
-468.969	4.79E-04	0	0.00336	0.00343	0
-469.4695	4.76E-04	0	0.00336	0.00343	0
-469.97	4.73E-04	0	0.00335	0.00343	0
-470.4705	4.71E-04	0	0.00335	0.00342	0
-470.971	4.68E-04	0	0.00335	0.00342	0
-471.4715	4.66E-04	0	0.00334	0.00341	0
-471.972	4.63E-04	0	0.00334	0.00341	0
-472.4725	4.61E-04	0	0.00333	0.0034	0
-472.973	4.58E-04	0	0.00333	0.0034	0
-473.4735	4.56E-04	0	0.00333	0.00339	0
-473.974	4.53E-04	0	0.00332	0.00339	0
-474.4745	4.51E-04	0	0.00332	0.00339	0
-474.975	4.48E-04	0	0.00332	0.00338	0
-475.4755	4.46E-04	0	0.00331	0.00338	0
-475.976	4.43E-04	0	0.00331	0.00337	0
-476.4765	4.41E-04	0	0.00331	0.00337	0
-476.977	4.38E-04	0	0.0033	0.00336	0
-477.4775	4.36E-04	0	0.0033	0.00336	0
-477.978	4.34E-04	0	0.0033	0.00335	0
-478.4785	4.31E-04	0	0.00329	0.00335	0
-478.979	4.29E-04	0	0.00329	0.00334	0
-479.4795	4.26E-04	0	0.00329	0.00334	0
-479.98	4.24E-04	0	0.00328	0.00334	0
-480.4805	4.22E-04	0	0.00328	0.00333	0
-480.981	4.19E-04	0	0.00328	0.00333	0
-481.4815	4.17E-04	0	0.00327	0.00332	0
-481.982	4.15E-04	0	0.00327	0.00332	0
-482.4825	4.13E-04	0	0.00327	0.00331	0

-482.983	4.10E-04	0	0.00326	0.00331	0
-483.4835	4.08E-04	0	0.00326	0.00331	0
-483.984	4.06E-04	0	0.00326	0.0033	0
-484.4845	4.04E-04	0	0.00325	0.0033	0
-484.985	4.01E-04	0	0.00325	0.00329	0
-485.4855	3.99E-04	0	0.00325	0.00329	0
-485.986	3.97E-04	0	0.00324	0.00329	0
-486.4865	3.95E-04	0	0.00324	0.00328	0
-486.987	3.93E-04	0	0.00324	0.00328	0
-487.4875	3.91E-04	0	0.00323	0.00327	0
-487.988	3.88E-04	0	0.00323	0.00327	0
-488.4885	3.86E-04	0	0.00323	0.00327	0
-488.989	3.84E-04	0	0.00322	0.00326	0
-489.4895	3.82E-04	0	0.00322	0.00326	0
-489.99	3.80E-04	0	0.00322	0.00325	0
-490.4905	3.78E-04	0	0.00321	0.00325	0
-490.991	3.76E-04	0	0.00321	0.00324	0
-491.4915	3.74E-04	0	0.0032	0.00324	0
-491.992	3.72E-04	0	0.0032	0.00324	0
-492.4925	3.70E-04	0	0.0032	0.00323	0
-492.993	3.68E-04	0	0.0032	0.00323	0
-493.4935	3.66E-04	0	0.00319	0.00322	0
-493.994	3.64E-04	0	0.00319	0.00322	0
-494.4945	3.62E-04	0	0.00319	0.00322	0
-494.995	3.60E-04	0	0.00318	0.00321	0
-495.4955	3.58E-04	0	0.00318	0.00321	0
-495.996	3.56E-04	0	0.00318	0.0032	0
-496.4965	3.54E-04	0	0.00317	0.0032	0
-496.997	3.52E-04	0	0.00317	0.00319	0
-497.4975	3.50E-04	0	0.00317	0.00319	0
-497.998	3.48E-04	0	0.00316	0.00319	0
-498.4985	3.46E-04	0	0.00316	0.00318	0
-498.999	3.44E-04	0	0.00316	0.00318	0
-499.4995	3.42E-04	0	0.00315	0.00317	0
-500	3.42E-04	0	0.00315	0.00317	0

Data for Figure 4b – RGO-TiO_2					
Depth (cm)	S/C_o (cm^3/g)				
	M1-fitted	M2-fitted	M3-fitted	M4-fitted	M6-fitted
0	0.131	0.1347	0.7916	0.1228	0.6497
-0.5005	0.1299	0.1347	0.2407	0.1228	0.1984
-1.001	0.1287	0.1347	0.1787	0.1223	0.1477
-1.5015	0.1276	0.1347	0.1491	0.1214	0.1235
-2.002	0.1265	0.1347	0.1308	0.1204	0.1085
-2.5025	0.1254	0.1347	0.1179	0.1192	0.09795
-3.003	0.1243	0.1347	0.1082	0.1179	0.09004
-3.5035	0.1233	0.1347	0.1006	0.1166	0.08379
-4.004	0.1222	0.1347	0.09434	0.1153	0.07869

-4.5045	0.1212	0.1347	0.08911	0.114	0.07441
-5.005	0.1201	0.1347	0.08463	0.1127	0.07076
-5.5055	0.1191	0.1347	0.08075	0.1114	0.06758
-6.006	0.118	0.1347	0.07734	0.1101	0.06479
-6.5065	0.117	0.1347	0.0743	0.1088	0.06232
-7.007	0.116	0.1347	0.07158	0.1076	0.06009
-7.5075	0.115	0.1347	0.06912	0.1063	0.05808
-8.008	0.114	0.1347	0.06688	0.1051	0.05626
-8.5085	0.113	0.1347	0.06483	0.1039	0.05458
-9.009	0.1121	0.1347	0.06295	0.1027	0.05304
-9.5095	0.1111	0.1347	0.06121	0.1016	0.05162
-10.01	0.1101	0.1347	0.05959	0.1004	0.0503
-10.5105	0.1092	0.1347	0.05809	0.09933	0.04907
-11.011	0.1082	0.1347	0.05668	0.09823	0.04792
-11.5115	0.1073	0.1347	0.05536	0.09714	0.04684
-12.012	0.1064	0.1347	0.05412	0.09608	0.04583
-12.5125	0.1055	0.1347	0.05295	0.09503	0.04487
-13.013	0.1045	0.1347	0.05185	0.094	0.04397
-13.5135	0.1036	0.1347	0.0508	0.09299	0.04312
-14.014	0.1028	0.1347	0.04981	0.09199	0.0423
-14.5145	0.1019	0.1347	0.04887	0.09101	0.04153
-15.015	0.101	0.1347	0.04797	0.09005	0.0408
-15.5155	0.1001	0.1347	0.04711	0.0891	0.0401
-16.016	0.09925	0.1347	0.04629	0.08816	0.03943
-16.5165	0.09839	0.1347	0.04551	0.08724	0.03879
-17.017	0.09754	0.1347	0.04476	0.08634	0.03818
-17.5175	0.0967	0.1347	0.04404	0.08544	0.03759
-18.018	0.09587	0.1347	0.04335	0.08456	0.03703
-18.5185	0.09504	0.1347	0.04269	0.0837	0.03649
-19.019	0.09422	0.1347	0.04205	0.08285	0.03596
-19.5195	0.0934	0.1347	0.04144	0.082	0.03546
-20.02	0.0926	0.1347	0.04085	0.08118	0.03498
-20.5205	0.0918	0.1347	0.04028	0.08036	0.03451
-21.021	0.09101	0.1347	0.03973	0.07955	0.03406
-21.5215	0.09022	0.1347	0.03919	0.07876	0.03362
-22.022	0.08944	0.1347	0.03868	0.07798	0.0332
-22.5225	0.08867	0.1347	0.03818	0.07721	0.03279
-23.023	0.0879	0.1347	0.03769	0.07645	0.03239
-23.5235	0.08714	0.1346	0.03723	0.0757	0.03201
-24.024	0.08639	0.1346	0.03677	0.07496	0.03164
-24.5245	0.08565	0.1346	0.03633	0.07423	0.03127
-25.025	0.08491	0.1346	0.03591	0.07351	0.03092
-25.5255	0.08417	0.1346	0.03549	0.0728	0.03058
-26.026	0.08345	0.1346	0.03509	0.0721	0.03025
-26.5265	0.08273	0.1345	0.0347	0.07141	0.02993
-27.027	0.08201	0.1345	0.03431	0.07072	0.02961
-27.5275	0.0813	0.1345	0.03394	0.07005	0.02931
-28.028	0.0806	0.1345	0.03358	0.06939	0.02901
-28.5285	0.07991	0.1344	0.03323	0.06873	0.02872

-29.029	0.07922	0.1344	0.03288	0.06808	0.02843
-29.5295	0.07853	0.1343	0.03255	0.06744	0.02816
-30.03	0.07785	0.1343	0.03222	0.06681	0.02789
-30.5305	0.07718	0.1342	0.0319	0.06619	0.02762
-31.031	0.07652	0.1342	0.03159	0.06557	0.02736
-31.5315	0.07586	0.1341	0.03128	0.06497	0.02711
-32.032	0.0752	0.134	0.03098	0.06436	0.02687
-32.5325	0.07455	0.1339	0.03068	0.06377	0.02663
-33.033	0.07391	0.1338	0.0304	0.06319	0.02639
-33.5335	0.07327	0.1337	0.03011	0.06261	0.02616
-34.034	0.07264	0.1336	0.02984	0.06204	0.02594
-34.5345	0.07201	0.1334	0.02957	0.06147	0.02571
-35.035	0.07139	0.1333	0.0293	0.06091	0.0255
-35.5355	0.07077	0.1331	0.02904	0.06036	0.02529
-36.036	0.07016	0.1329	0.02879	0.05982	0.02508
-36.5365	0.06956	0.1326	0.02854	0.05928	0.02488
-37.037	0.06895	0.1324	0.0283	0.05875	0.02468
-37.5375	0.06836	0.1321	0.02806	0.05822	0.02448
-38.038	0.06777	0.1317	0.02783	0.05771	0.02429
-38.5385	0.06718	0.1314	0.0276	0.05719	0.0241
-39.039	0.0666	0.131	0.02737	0.05669	0.02392
-39.5395	0.06603	0.1305	0.02715	0.05619	0.02373
-40.04	0.06546	0.13	0.02693	0.05569	0.02356
-40.5405	0.06489	0.1294	0.02672	0.0552	0.02338
-41.041	0.06433	0.1288	0.02651	0.05472	0.02321
-41.5415	0.06378	0.1281	0.02631	0.05424	0.02304
-42.042	0.06323	0.1273	0.0261	0.05377	0.02287
-42.5425	0.06268	0.1265	0.02591	0.0533	0.02271
-43.043	0.06214	0.1255	0.02571	0.05284	0.02255
-43.5435	0.0616	0.1245	0.02552	0.05238	0.02239
-44.044	0.06107	0.1233	0.02533	0.05193	0.02224
-44.5445	0.06055	0.122	0.02515	0.05148	0.02208
-45.045	0.06002	0.1206	0.02496	0.05104	0.02193
-45.5455	0.0595	0.1191	0.02479	0.0506	0.02179
-46.0461	0.05899	0.1175	0.02461	0.05017	0.02164
-46.5466	0.05848	0.1157	0.02444	0.04974	0.0215
-47.0471	0.05798	0.1137	0.02426	0.04932	0.02136
-47.5476	0.05748	0.1116	0.0241	0.0489	0.02122
-48.048	0.05698	0.1094	0.02393	0.04849	0.02108
-48.5485	0.05649	0.107	0.02377	0.04808	0.02095
-49.049	0.056	0.1044	0.02361	0.04768	0.02081
-49.5495	0.05552	0.1017	0.02345	0.04728	0.02068
-50.05	0.05504	0.09878	0.02329	0.04688	0.02055
-50.5505	0.05456	0.09575	0.02314	0.04649	0.02043
-51.051	0.05409	0.09258	0.02299	0.0461	0.0203
-51.5516	0.05362	0.08929	0.02284	0.04572	0.02018
-52.0521	0.05316	0.08589	0.02269	0.04534	0.02006
-52.5526	0.0527	0.08239	0.02255	0.04497	0.01994
-53.0531	0.05225	0.07881	0.0224	0.04459	0.01982

-53.5536	0.0518	0.07517	0.02226	0.04423	0.0197
-54.0541	0.05135	0.0715	0.02212	0.04386	0.01959
-54.5546	0.05091	0.06781	0.02198	0.0435	0.01947
-55.055	0.05047	0.06412	0.02185	0.04315	0.01936
-55.5556	0.05003	0.06047	0.02172	0.0428	0.01925
-56.0561	0.0496	0.05686	0.02158	0.04245	0.01914
-56.5566	0.04917	0.05332	0.02145	0.0421	0.01903
-57.0571	0.04875	0.04987	0.02132	0.04176	0.01893
-57.5576	0.04833	0.04652	0.0212	0.04142	0.01882
-58.0581	0.04791	0.04328	0.02107	0.04109	0.01872
-58.5586	0.04749	0.04017	0.02095	0.04076	0.01861
-59.0591	0.04708	0.0372	0.02083	0.04043	0.01851
-59.5596	0.04668	0.03437	0.02071	0.04011	0.01841
-60.0601	0.04627	0.03169	0.02059	0.03979	0.01831
-60.5606	0.04588	0.02917	0.02047	0.03947	0.01822
-61.0611	0.04548	0.02679	0.02035	0.03916	0.01812
-61.5616	0.04509	0.02457	0.02024	0.03885	0.01803
-62.0621	0.0447	0.02249	0.02012	0.03854	0.01793
-62.5626	0.04431	0.02056	0.02001	0.03823	0.01784
-63.0631	0.04393	0.01877	0.0199	0.03793	0.01775
-63.5636	0.04355	0.01711	0.01979	0.03763	0.01766
-64.0641	0.04317	0.01558	0.01968	0.03734	0.01757
-64.5646	0.0428	0.01417	0.01958	0.03704	0.01748
-65.0651	0.04243	0.01287	0.01947	0.03675	0.01739
-65.5656	0.04207	0.01169	0.01937	0.03647	0.0173
-66.0661	0.0417	0.0106	0.01926	0.03618	0.01722
-66.5666	0.04134	0.00961	0.01916	0.0359	0.01713
-67.0671	0.04098	0.0087	0.01906	0.03562	0.01705
-67.5676	0.04063	0.00788	0.01896	0.03535	0.01696
-68.0681	0.04028	0.00712	0.01886	0.03507	0.01688
-68.5686	0.03993	0.00644	0.01876	0.0348	0.0168
-69.0691	0.03959	0.00582	0.01866	0.03454	0.01672
-69.5696	0.03925	0.00526	0.01857	0.03427	0.01664
-70.0701	0.03891	0.00475	0.01847	0.03401	0.01656
-70.5706	0.03857	0.00428	0.01838	0.03375	0.01648
-71.0711	0.03824	0.00386	0.01829	0.03349	0.0164
-71.5716	0.03791	0.00349	0.0182	0.03324	0.01633
-72.0721	0.03758	0.00314	0.01811	0.03298	0.01625
-72.5726	0.03726	0.00283	0.01802	0.03273	0.01618
-73.0731	0.03693	0.00256	0.01793	0.03248	0.0161
-73.5736	0.03662	0.0023	0.01784	0.03224	0.01603
-74.0741	0.0363	0.00207	0.01775	0.032	0.01596
-74.5746	0.03599	0.00187	0.01766	0.03176	0.01589
-75.0751	0.03568	0.00168	0.01758	0.03152	0.01581
-75.5756	0.03537	0.00152	0.01749	0.03128	0.01574
-76.0761	0.03506	0.00136	0.01741	0.03105	0.01567
-76.5766	0.03476	0.00123	0.01733	0.03081	0.0156
-77.0771	0.03446	0.00111	0.01725	0.03058	0.01554
-77.5776	0.03416	9.96E-04	0.01716	0.03036	0.01547

-78.0781	0.03387	8.97E-04	0.01708	0.03013	0.0154
-78.5786	0.03357	8.07E-04	0.017	0.02991	0.01533
-79.0791	0.03328	7.26E-04	0.01692	0.02969	0.01527
-79.5796	0.033	6.54E-04	0.01685	0.02947	0.0152
-80.0801	0.03271	5.88E-04	0.01677	0.02925	0.01514
-80.5806	0.03243	5.29E-04	0.01669	0.02903	0.01507
-81.0811	0.03215	4.76E-04	0.01662	0.02882	0.01501
-81.5816	0.03187	4.29E-04	0.01654	0.02861	0.01495
-82.0821	0.0316	3.86E-04	0.01647	0.0284	0.01488
-82.5826	0.03132	3.47E-04	0.01639	0.02819	0.01482
-83.0831	0.03105	3.12E-04	0.01632	0.02799	0.01476
-83.5836	0.03079	2.81E-04	0.01625	0.02778	0.0147
-84.0841	0.03052	2.53E-04	0.01617	0.02758	0.01464
-84.5846	0.03026	2.27E-04	0.0161	0.02738	0.01458
-85.0851	0.03	2.05E-04	0.01603	0.02718	0.01452
-85.5856	0.02974	1.84E-04	0.01596	0.02699	0.01446
-86.0861	0.02948	1.66E-04	0.01589	0.02679	0.0144
-86.5866	0.02923	1.49E-04	0.01582	0.0266	0.01435
-87.0871	0.02897	1.34E-04	0.01575	0.02641	0.01429
-87.5876	0.02872	1.21E-04	0.01569	0.02622	0.01423
-88.0881	0.02848	1.08E-04	0.01562	0.02603	0.01418
-88.5886	0.02823	9.75E-05	0.01555	0.02584	0.01412
-89.0891	0.02799	8.78E-05	0.01549	0.02566	0.01407
-89.5896	0.02774	7.89E-05	0.01542	0.02548	0.01401
-90.0901	0.0275	7.10E-05	0.01536	0.0253	0.01396
-90.5906	0.02727	6.39E-05	0.01529	0.02512	0.0139
-91.0911	0.02703	5.75E-05	0.01523	0.02494	0.01385
-91.5916	0.0268	5.17E-05	0.01516	0.02476	0.0138
-92.0921	0.02657	4.65E-05	0.0151	0.02459	0.01374
-92.5926	0.02634	4.18E-05	0.01504	0.02441	0.01369
-93.0931	0.02611	3.76E-05	0.01498	0.02424	0.01364
-93.5936	0.02588	3.38E-05	0.01492	0.02407	0.01359
-94.0941	0.02566	3.04E-05	0.01486	0.0239	0.01354
-94.5946	0.02544	2.74E-05	0.01479	0.02374	0.01349
-95.0951	0.02522	2.46E-05	0.01473	0.02357	0.01344
-95.5956	0.025	2.22E-05	0.01468	0.0234	0.01339
-96.0961	0.02479	1.99E-05	0.01462	0.02324	0.01334
-96.5966	0.02457	1.79E-05	0.01456	0.02308	0.01329
-97.0971	0.02436	1.61E-05	0.0145	0.02292	0.01324
-97.5976	0.02415	1.45E-05	0.01444	0.02276	0.01319
-98.0981	0.02394	1.31E-05	0.01439	0.0226	0.01314
-98.5986	0.02373	1.17E-05	0.01433	0.02245	0.0131
-99.0991	0.02353	1.06E-05	0.01427	0.02229	0.01305
-99.5996	0.02333	9.50E-06	0.01422	0.02214	0.013
-100.1	0.02313	8.55E-06	0.01416	0.02199	0.01296
-100.601	0.02293	7.69E-06	0.01411	0.02184	0.01291
-101.101	0.02273	6.91E-06	0.01405	0.02169	0.01286
-101.602	0.02253	6.22E-06	0.014	0.02154	0.01282
-102.102	0.02234	5.60E-06	0.01394	0.02139	0.01277

-102.603	0.02214	5.03E-06	0.01389	0.02125	0.01273
-103.103	0.02195	4.53E-06	0.01384	0.0211	0.01268
-103.604	0.02176	4.07E-06	0.01379	0.02096	0.01264
-104.104	0.02158	3.66E-06	0.01373	0.02082	0.0126
-104.605	0.02139	3.30E-06	0.01368	0.02067	0.01255
-105.105	0.0212	2.96E-06	0.01363	0.02054	0.01251
-105.606	0.02102	2.67E-06	0.01358	0.0204	0.01247
-106.106	0.02084	2.40E-06	0.01353	0.02026	0.01242
-106.607	0.02066	2.16E-06	0.01348	0.02012	0.01238
-107.107	0.02048	1.94E-06	0.01343	0.01999	0.01234
-107.608	0.0203	1.75E-06	0.01338	0.01985	0.0123
-108.108	0.02013	1.57E-06	0.01333	0.01972	0.01226
-108.609	0.01996	1.41E-06	0.01328	0.01959	0.01221
-109.109	0.01978	1.27E-06	0.01323	0.01946	0.01217
-109.61	0.01961	1.14E-06	0.01319	0.01933	0.01213
-110.11	0.01944	1.03E-06	0.01314	0.0192	0.01209
-110.611	0.01928	9.25E-07	0.01309	0.01907	0.01205
-111.111	0.01911	8.32E-07	0.01304	0.01895	0.01201
-111.612	0.01894	7.48E-07	0.013	0.01882	0.01197
-112.112	0.01878	6.73E-07	0.01295	0.0187	0.01193
-112.613	0.01862	6.06E-07	0.0129	0.01857	0.01189
-113.113	0.01846	5.45E-07	0.01286	0.01845	0.01186
-113.614	0.0183	4.90E-07	0.01281	0.01833	0.01182
-114.114	0.01814	4.41E-07	0.01277	0.01821	0.01178
-114.615	0.01798	3.96E-07	0.01272	0.01809	0.01174
-115.115	0.01783	3.57E-07	0.01268	0.01797	0.0117
-115.616	0.01767	3.21E-07	0.01263	0.01785	0.01167
-116.116	0.01752	2.89E-07	0.01259	0.01774	0.01163
-116.617	0.01737	2.60E-07	0.01255	0.01762	0.01159
-117.117	0.01722	2.34E-07	0.0125	0.01751	0.01156
-117.618	0.01707	2.10E-07	0.01246	0.01739	0.01152
-118.118	0.01692	1.89E-07	0.01242	0.01728	0.01148
-118.619	0.01678	1.70E-07	0.01238	0.01717	0.01145
-119.119	0.01663	1.53E-07	0.01233	0.01706	0.01141
-119.62	0.01649	1.38E-07	0.01229	0.01695	0.01137
-120.12	0.01635	1.24E-07	0.01225	0.01684	0.01134
-120.621	0.01621	1.11E-07	0.01221	0.01673	0.0113
-121.121	0.01607	1.00E-07	0.01217	0.01662	0.01127
-121.622	0.01593	9.00E-08	0.01213	0.01652	0.01123
-122.122	0.01579	8.10E-08	0.01208	0.01641	0.0112
-122.623	0.01565	7.28E-08	0.01204	0.01631	0.01117
-123.123	0.01552	6.55E-08	0.012	0.0162	0.01113
-123.624	0.01539	5.89E-08	0.01196	0.0161	0.0111
-124.124	0.01525	5.30E-08	0.01192	0.016	0.01106
-124.625	0.01512	4.77E-08	0.01189	0.01589	0.01103
-125.125	0.01499	4.29E-08	0.01185	0.01579	0.011
-125.626	0.01486	3.86E-08	0.01181	0.01569	0.01096
-126.126	0.01473	3.47E-08	0.01177	0.01559	0.01093
-126.627	0.01461	3.12E-08	0.01173	0.0155	0.0109

-127.127	0.01448	2.81E-08	0.01169	0.0154	0.01087
-127.628	0.01435	2.53E-08	0.01165	0.0153	0.01083
-128.128	0.01423	2.27E-08	0.01162	0.0152	0.0108
-128.629	0.01411	2.04E-08	0.01158	0.01511	0.01077
-129.129	0.01399	1.84E-08	0.01154	0.01501	0.01074
-129.63	0.01386	1.65E-08	0.0115	0.01492	0.01071
-130.13	0.01375	1.49E-08	0.01147	0.01483	0.01068
-130.631	0.01363	1.34E-08	0.01143	0.01473	0.01064
-131.131	0.01351	1.20E-08	0.01139	0.01464	0.01061
-131.632	0.01339	1.08E-08	0.01136	0.01455	0.01058
-132.132	0.01328	9.74E-09	0.01132	0.01446	0.01055
-132.633	0.01316	8.76E-09	0.01129	0.01437	0.01052
-133.133	0.01305	7.88E-09	0.01125	0.01428	0.01049
-133.634	0.01294	7.09E-09	0.01122	0.01419	0.01046
-134.134	0.01282	6.38E-09	0.01118	0.01411	0.01043
-134.635	0.01271	5.74E-09	0.01115	0.01402	0.0104
-135.135	0.0126	5.16E-09	0.01111	0.01393	0.01037
-135.636	0.01249	4.64E-09	0.01108	0.01385	0.01034
-136.136	0.01239	4.18E-09	0.01104	0.01376	0.01031
-136.637	0.01228	3.76E-09	0.01101	0.01368	0.01028
-137.137	0.01217	3.38E-09	0.01097	0.01359	0.01026
-137.638	0.01207	3.04E-09	0.01094	0.01351	0.01023
-138.138	0.01196	2.73E-09	0.01091	0.01343	0.0102
-138.639	0.01186	2.46E-09	0.01087	0.01334	0.01017
-139.139	0.01176	2.21E-09	0.01084	0.01326	0.01014
-139.64	0.01166	1.99E-09	0.01081	0.01318	0.01011
-140.14	0.01156	1.79E-09	0.01077	0.0131	0.01009
-140.641	0.01146	1.61E-09	0.01074	0.01302	0.01006
-141.141	0.01136	1.45E-09	0.01071	0.01294	0.01003
-141.642	0.01126	1.30E-09	0.01068	0.01287	0.01
-142.142	0.01116	1.17E-09	0.01064	0.01279	0.00997
-142.643	0.01107	1.05E-09	0.01061	0.01271	0.00995
-143.143	0.01097	9.48E-10	0.01058	0.01263	0.00992
-143.644	0.01088	8.53E-10	0.01055	0.01256	0.00989
-144.144	0.01078	7.67E-10	0.01052	0.01248	0.00987
-144.645	0.01069	6.90E-10	0.01049	0.01241	0.00984
-145.145	0.0106	6.21E-10	0.01045	0.01233	0.00981
-145.646	0.01051	5.58E-10	0.01042	0.01226	0.00979
-146.146	0.01041	5.02E-10	0.01039	0.01219	0.00976
-146.647	0.01032	4.52E-10	0.01036	0.01211	0.00974
-147.147	0.01024	4.06E-10	0.01033	0.01204	0.00971
-147.648	0.01015	3.66E-10	0.0103	0.01197	0.00968
-148.148	0.01006	3.29E-10	0.01027	0.0119	0.00966
-148.649	0.00997	2.96E-10	0.01024	0.01183	0.00963
-149.149	0.00989	2.66E-10	0.01021	0.01176	0.00961
-149.65	0.0098	2.39E-10	0.01018	0.01169	0.00958
-150.15	0.00972	2.15E-10	0.01015	0.01162	0.00956
-150.651	0.00963	1.94E-10	0.01012	0.01155	0.00953
-151.151	0.00955	1.74E-10	0.01009	0.01148	0.00951

-151.652	0.00947	1.57E-10	0.01006	0.01141	0.00948
-152.152	0.00939	1.41E-10	0.01004	0.01135	0.00946
-152.653	0.0093	1.27E-10	0.01001	0.01128	0.00943
-153.153	0.00922	1.14E-10	0.00998	0.01121	0.00941
-153.654	0.00915	1.03E-10	0.00995	0.01115	0.00938
-154.154	0.00907	9.23E-11	0.00992	0.01108	0.00936
-154.655	0.00899	8.30E-11	0.00989	0.01102	0.00933
-155.155	0.00891	7.47E-11	0.00987	0.01095	0.00931
-155.656	0.00883	6.72E-11	0.00984	0.01089	0.00929
-156.156	0.00876	6.04E-11	0.00981	0.01083	0.00926
-156.657	0.00868	5.44E-11	0.00978	0.01076	0.00924
-157.157	0.00861	4.89E-11	0.00976	0.0107	0.00922
-157.658	0.00853	4.40E-11	0.00973	0.01064	0.00919
-158.158	0.00846	3.96E-11	0.0097	0.01058	0.00917
-158.659	0.00839	3.56E-11	0.00967	0.01051	0.00915
-159.159	0.00831	3.20E-11	0.00965	0.01045	0.00912
-159.66	0.00824	2.88E-11	0.00962	0.01039	0.0091
-160.16	0.00817	2.59E-11	0.00959	0.01033	0.00908
-160.661	0.0081	2.33E-11	0.00957	0.01027	0.00906
-161.161	0.00803	2.10E-11	0.00954	0.01022	0.00903
-161.662	0.00796	1.89E-11	0.00951	0.01016	0.00901
-162.162	0.00789	1.70E-11	0.00949	0.0101	0.00899
-162.663	0.00782	1.53E-11	0.00946	0.01004	0.00897
-163.163	0.00776	1.37E-11	0.00944	0.00998	0.00894
-163.664	0.00769	1.23E-11	0.00941	0.00993	0.00892
-164.164	0.00762	1.11E-11	0.00939	0.00987	0.0089
-164.665	0.00756	9.99E-12	0.00936	0.00981	0.00888
-165.165	0.00749	8.98E-12	0.00934	0.00976	0.00886
-165.666	0.00743	8.08E-12	0.00931	0.0097	0.00883
-166.166	0.00736	7.27E-12	0.00929	0.00965	0.00881
-166.667	0.0073	6.54E-12	0.00926	0.00959	0.00879
-167.167	0.00724	5.88E-12	0.00924	0.00954	0.00877
-167.668	0.00717	5.29E-12	0.00921	0.00948	0.00875
-168.168	0.00711	4.76E-12	0.00919	0.00943	0.00873
-168.669	0.00705	4.28E-12	0.00916	0.00938	0.00871
-169.169	0.00699	3.85E-12	0.00914	0.00932	0.00869
-169.67	0.00693	3.46E-12	0.00911	0.00927	0.00866
-170.17	0.00687	3.12E-12	0.00909	0.00922	0.00864
-170.671	0.00681	2.80E-12	0.00907	0.00917	0.00862
-171.171	0.00675	2.52E-12	0.00904	0.00912	0.0086
-171.672	0.00669	2.27E-12	0.00902	0.00907	0.00858
-172.172	0.00664	2.04E-12	0.00899	0.00901	0.00856
-172.673	0.00658	1.84E-12	0.00897	0.00896	0.00854
-173.173	0.00652	1.65E-12	0.00895	0.00891	0.00852
-173.674	0.00646	1.49E-12	0.00892	0.00886	0.0085
-174.174	0.00641	1.34E-12	0.0089	0.00881	0.00848
-174.675	0.00635	1.20E-12	0.00888	0.00877	0.00846
-175.175	0.0063	1.08E-12	0.00885	0.00872	0.00844
-175.676	0.00624	9.72E-13	0.00883	0.00867	0.00842

-176.176	0.00619	8.74E-13	0.00881	0.00862	0.0084
-176.677	0.00614	7.87E-13	0.00879	0.00857	0.00838
-177.177	0.00608	7.07E-13	0.00876	0.00852	0.00836
-177.678	0.00603	6.36E-13	0.00874	0.00848	0.00834
-178.178	0.00598	5.72E-13	0.00872	0.00843	0.00832
-178.679	0.00593	5.15E-13	0.0087	0.00839	0.0083
-179.179	0.00588	4.63E-13	0.00867	0.00834	0.00829
-179.68	0.00583	4.17E-13	0.00865	0.00829	0.00827
-180.18	0.00577	3.75E-13	0.00863	0.00825	0.00825
-180.681	0.00573	3.37E-13	0.00861	0.0082	0.00823
-181.181	0.00568	3.03E-13	0.00859	0.00816	0.00821
-181.682	0.00563	2.73E-13	0.00856	0.00811	0.00819
-182.182	0.00558	2.45E-13	0.00854	0.00807	0.00817
-182.683	0.00553	2.21E-13	0.00852	0.00802	0.00815
-183.183	0.00548	1.99E-13	0.0085	0.00798	0.00813
-183.684	0.00543	1.79E-13	0.00848	0.00794	0.00812
-184.184	0.00539	1.61E-13	0.00846	0.00789	0.0081
-184.685	0.00534	1.45E-13	0.00844	0.00785	0.00808
-185.185	0.0053	1.30E-13	0.00842	0.00781	0.00806
-185.686	0.00525	1.17E-13	0.00839	0.00777	0.00804
-186.186	0.00521	1.05E-13	0.00837	0.00772	0.00802
-186.687	0.00516	9.46E-14	0.00835	0.00768	0.00801
-187.187	0.00511	8.51E-14	0.00833	0.00764	0.00799
-187.688	0.00507	7.66E-14	0.00831	0.0076	0.00797
-188.188	0.00503	6.89E-14	0.00829	0.00756	0.00795
-188.689	0.00498	6.19E-14	0.00827	0.00752	0.00794
-189.189	0.00494	5.57E-14	0.00825	0.00748	0.00792
-189.69	0.0049	5.01E-14	0.00823	0.00744	0.0079
-190.19	0.00486	4.51E-14	0.00821	0.0074	0.00788
-190.691	0.00481	4.06E-14	0.00819	0.00736	0.00787
-191.191	0.00477	3.65E-14	0.00817	0.00732	0.00785
-191.692	0.00473	3.28E-14	0.00815	0.00728	0.00783
-192.192	0.00469	2.95E-14	0.00813	0.00724	0.00781
-192.693	0.00465	2.66E-14	0.00811	0.0072	0.0078
-193.193	0.00461	2.39E-14	0.00809	0.00716	0.00778
-193.694	0.00457	2.15E-14	0.00807	0.00713	0.00776
-194.194	0.00453	1.93E-14	0.00805	0.00709	0.00775
-194.695	0.00449	1.74E-14	0.00803	0.00705	0.00773
-195.195	0.00445	1.56E-14	0.00801	0.00701	0.00771
-195.696	0.00441	1.41E-14	0.00799	0.00698	0.0077
-196.196	0.00438	1.27E-14	0.00797	0.00694	0.00768
-196.697	0.00434	1.14E-14	0.00796	0.0069	0.00766
-197.197	0.0043	1.02E-14	0.00794	0.00686	0.00765
-197.698	0.00426	9.21E-15	0.00792	0.00683	0.00763
-198.198	0.00423	8.28E-15	0.0079	0.00679	0.00761
-198.699	0.00419	7.45E-15	0.00788	0.00676	0.0076
-199.199	0.00415	6.70E-15	0.00786	0.00672	0.00758
-199.7	0.00412	6.03E-15	0.00784	0.00669	0.00756
-200.2	0.00408	5.42E-15	0.00782	0.00665	0.00755

-200.701	0.00405	4.88E-15	0.00781	0.00662	0.00753
-201.201	0.00401	4.39E-15	0.00779	0.00658	0.00752
-201.702	0.00398	3.95E-15	0.00777	0.00655	0.0075
-202.202	0.00394	3.55E-15	0.00775	0.00651	0.00749
-202.703	0.00391	3.19E-15	0.00773	0.00648	0.00747
-203.203	0.00388	2.87E-15	0.00771	0.00645	0.00745
-203.704	0.00384	2.58E-15	0.0077	0.00641	0.00744
-204.204	0.00381	2.33E-15	0.00768	0.00638	0.00742
-204.705	0.00378	2.09E-15	0.00766	0.00634	0.00741
-205.205	0.00374	1.88E-15	0.00764	0.00631	0.00739
-205.706	0.00371	1.69E-15	0.00762	0.00628	0.00737
-206.206	0.00368	1.52E-15	0.00761	0.00625	0.00736
-206.707	0.00365	1.37E-15	0.00759	0.00622	0.00734
-207.207	0.00362	1.23E-15	0.00757	0.00618	0.00733
-207.708	0.00359	1.11E-15	0.00756	0.00615	0.00731
-208.208	0.00355	9.97E-16	0.00754	0.00612	0.0073
-208.709	0.00352	8.96E-16	0.00752	0.00609	0.00728
-209.209	0.00349	8.06E-16	0.0075	0.00606	0.00727
-209.71	0.00346	7.25E-16	0.00749	0.00603	0.00725
-210.21	0.00343	6.52E-16	0.00747	0.00599	0.00724
-210.711	0.0034	5.87E-16	0.00745	0.00596	0.00722
-211.211	0.00337	5.28E-16	0.00743	0.00593	0.00721
-211.712	0.00334	4.75E-16	0.00742	0.0059	0.00719
-212.212	0.00332	4.27E-16	0.0074	0.00587	0.00718
-212.713	0.00329	3.84E-16	0.00738	0.00584	0.00717
-213.213	0.00326	3.46E-16	0.00737	0.00581	0.00715
-213.714	0.00323	3.11E-16	0.00735	0.00578	0.00714
-214.214	0.0032	2.80E-16	0.00733	0.00575	0.00712
-214.715	0.00317	2.52E-16	0.00732	0.00572	0.00711
-215.215	0.00315	2.26E-16	0.0073	0.0057	0.00709
-215.716	0.00312	2.04E-16	0.00728	0.00567	0.00708
-216.216	0.00309	1.83E-16	0.00727	0.00564	0.00706
-216.717	0.00307	1.65E-16	0.00725	0.00561	0.00705
-217.217	0.00304	1.48E-16	0.00724	0.00558	0.00704
-217.718	0.00301	1.33E-16	0.00722	0.00555	0.00702
-218.218	0.00299	1.20E-16	0.0072	0.00552	0.00701
-218.719	0.00296	1.08E-16	0.00719	0.0055	0.00699
-219.219	0.00294	9.70E-17	0.00717	0.00547	0.00698
-219.72	0.00291	8.73E-17	0.00716	0.00544	0.00697
-220.22	0.00289	7.85E-17	0.00714	0.00541	0.00695
-220.721	0.00286	7.06E-17	0.00712	0.00539	0.00694
-221.221	0.00284	6.35E-17	0.00711	0.00536	0.00692
-221.722	0.00281	5.71E-17	0.00709	0.00533	0.00691
-222.222	0.00279	5.14E-17	0.00708	0.00531	0.0069
-222.723	0.00276	4.62E-17	0.00706	0.00528	0.00688
-223.223	0.00274	4.16E-17	0.00705	0.00525	0.00687
-223.724	0.00272	3.74E-17	0.00703	0.00523	0.00686
-224.224	0.00269	3.36E-17	0.00702	0.0052	0.00684
-224.725	0.00267	3.03E-17	0.007	0.00517	0.00683

-225.225	0.00265	2.72E-17	0.00698	0.00515	0.00682
-225.726	0.00262	2.45E-17	0.00697	0.00512	0.0068
-226.226	0.0026	2.20E-17	0.00696	0.0051	0.00679
-226.727	0.00258	1.98E-17	0.00694	0.00507	0.00678
-227.227	0.00256	1.78E-17	0.00692	0.00505	0.00676
-227.728	0.00253	1.60E-17	0.00691	0.00502	0.00675
-228.228	0.00251	1.44E-17	0.00689	0.005	0.00674
-228.729	0.00249	1.30E-17	0.00688	0.00497	0.00672
-229.229	0.00247	1.17E-17	0.00686	0.00495	0.00671
-229.73	0.00245	1.05E-17	0.00685	0.00492	0.0067
-230.23	0.00243	9.44E-18	0.00683	0.0049	0.00669
-230.731	0.00241	8.49E-18	0.00682	0.00488	0.00667
-231.231	0.00239	7.64E-18	0.00681	0.00485	0.00666
-231.732	0.00236	6.87E-18	0.00679	0.00483	0.00665
-232.232	0.00234	6.18E-18	0.00678	0.0048	0.00663
-232.733	0.00232	5.56E-18	0.00676	0.00478	0.00662
-233.233	0.0023	5.00E-18	0.00675	0.00476	0.00661
-233.734	0.00228	4.50E-18	0.00673	0.00473	0.0066
-234.234	0.00226	4.05E-18	0.00672	0.00471	0.00658
-234.735	0.00225	3.64E-18	0.00671	0.00469	0.00657
-235.235	0.00223	3.28E-18	0.00669	0.00466	0.00656
-235.736	0.00221	2.95E-18	0.00668	0.00464	0.00655
-236.236	0.00219	2.65E-18	0.00666	0.00462	0.00653
-236.737	0.00217	2.38E-18	0.00665	0.0046	0.00652
-237.237	0.00215	2.15E-18	0.00664	0.00457	0.00651
-237.738	0.00213	1.93E-18	0.00662	0.00455	0.0065
-238.238	0.00211	1.74E-18	0.00661	0.00453	0.00648
-238.739	0.00209	1.56E-18	0.00659	0.00451	0.00647
-239.239	0.00208	1.41E-18	0.00658	0.00449	0.00646
-239.74	0.00206	1.26E-18	0.00657	0.00446	0.00645
-240.24	0.00204	1.14E-18	0.00655	0.00444	0.00643
-240.741	0.00202	1.02E-18	0.00654	0.00442	0.00642
-241.241	0.002	9.21E-19	0.00653	0.0044	0.00641
-241.742	0.00199	8.29E-19	0.00651	0.00438	0.0064
-242.242	0.00197	7.46E-19	0.0065	0.00436	0.00639
-242.743	0.00195	6.72E-19	0.00648	0.00434	0.00638
-243.243	0.00194	6.05E-19	0.00647	0.00432	0.00636
-243.744	0.00192	5.45E-19	0.00646	0.0043	0.00635
-244.244	0.0019	4.91E-19	0.00644	0.00427	0.00634
-244.745	0.00189	4.42E-19	0.00643	0.00425	0.00633
-245.245	0.00187	3.98E-19	0.00642	0.00423	0.00632
-245.746	0.00186	3.59E-19	0.00641	0.00421	0.0063
-246.246	0.00184	3.24E-19	0.00639	0.00419	0.00629
-246.747	0.00182	2.92E-19	0.00638	0.00417	0.00628
-247.247	0.00181	2.63E-19	0.00637	0.00415	0.00627
-247.748	0.00179	2.38E-19	0.00635	0.00413	0.00626
-248.248	0.00178	2.15E-19	0.00634	0.00411	0.00625
-248.749	0.00176	1.94E-19	0.00633	0.00409	0.00624
-249.249	0.00175	1.75E-19	0.00631	0.00407	0.00622

-249.75	0.00173	1.58E-19	0.0063	0.00405	0.00621
-250.25	0.00171	1.43E-19	0.00629	0.00404	0.0062
-250.751	0.0017	1.29E-19	0.00628	0.00402	0.00619
-251.251	0.00169	1.17E-19	0.00626	0.004	0.00618
-251.752	0.00167	1.07E-19	0.00625	0.00398	0.00617
-252.252	0.00166	9.73E-20	0.00624	0.00396	0.00616
-252.753	0.00164	8.88E-20	0.00622	0.00394	0.00615
-253.253	0.00163	8.13E-20	0.00621	0.00392	0.00613
-253.754	0.00161	7.52E-20	0.0062	0.0039	0.00612
-254.254	0.0016	6.91E-20	0.00619	0.00389	0.00611
-254.755	0.00159	6.40E-20	0.00617	0.00387	0.0061
-255.255	0.00157	6.02E-20	0.00616	0.00385	0.00609
-255.756	0.00156	5.51E-20	0.00615	0.00383	0.00608
-256.256	0.00155	5.15E-20	0.00614	0.00381	0.00607
-256.757	0.00153	4.73E-20	0.00613	0.0038	0.00606
-257.257	0.00152	4.46E-20	0.00611	0.00378	0.00605
-257.758	0.00151	4.21E-20	0.0061	0.00376	0.00604
-258.258	0.00149	3.91E-20	0.00609	0.00374	0.00603
-258.759	0.00148	3.82E-20	0.00608	0.00373	0.00602
-259.259	0.00147	3.47E-20	0.00607	0.00371	0.006
-259.76	0.00145	3.41E-20	0.00605	0.00369	0.00599
-260.26	0.00144	3.24E-20	0.00604	0.00367	0.00598
-260.761	0.00143	3.09E-20	0.00603	0.00366	0.00597
-261.261	0.00142	2.88E-20	0.00602	0.00364	0.00596
-261.762	0.00141	2.72E-20	0.00601	0.00362	0.00595
-262.262	0.00139	2.63E-20	0.00599	0.00361	0.00594
-262.763	0.00138	2.43E-20	0.00598	0.00359	0.00593
-263.263	0.00137	2.52E-20	0.00597	0.00357	0.00592
-263.764	0.00136	2.28E-20	0.00596	0.00356	0.00591
-264.264	0.00135	2.32E-20	0.00595	0.00354	0.0059
-264.765	0.00133	2.19E-20	0.00594	0.00352	0.00589
-265.265	0.00132	2.14E-20	0.00592	0.00351	0.00588
-265.766	0.00131	2.10E-20	0.00591	0.00349	0.00587
-266.266	0.0013	2.03E-20	0.0059	0.00347	0.00586
-266.767	0.00129	2.07E-20	0.00589	0.00346	0.00585
-267.267	0.00128	1.92E-20	0.00588	0.00344	0.00584
-267.768	0.00127	2.07E-20	0.00587	0.00343	0.00583
-268.268	0.00126	1.96E-20	0.00586	0.00341	0.00582
-268.769	0.00125	2.04E-20	0.00584	0.00339	0.00581
-269.269	0.00123	2.04E-20	0.00583	0.00338	0.0058
-269.77	0.00122	2.07E-20	0.00582	0.00336	0.00579
-270.27	0.00121	2.18E-20	0.00581	0.00335	0.00578
-270.771	0.0012	2.21E-20	0.0058	0.00333	0.00577
-271.271	0.00119	2.18E-20	0.00579	0.00332	0.00576
-271.772	0.00118	2.10E-20	0.00578	0.0033	0.00575
-272.272	0.00117	2.11E-20	0.00577	0.00329	0.00574
-272.773	0.00116	2.10E-20	0.00575	0.00327	0.00573
-273.273	0.00115	2.06E-20	0.00574	0.00326	0.00572
-273.774	0.00114	1.87E-20	0.00573	0.00324	0.00571

-274.274	0.00113	1.87E-20	0.00572	0.00323	0.0057
-274.775	0.00112	1.87E-20	0.00571	0.00321	0.00569
-275.275	0.00111	1.91E-20	0.0057	0.0032	0.00568
-275.776	0.0011	1.83E-20	0.00569	0.00318	0.00567
-276.276	0.00109	1.77E-20	0.00568	0.00317	0.00566
-276.777	0.00108	1.80E-20	0.00567	0.00315	0.00565
-277.277	0.00107	1.84E-20	0.00566	0.00314	0.00564
-277.778	0.00107	1.84E-20	0.00565	0.00313	0.00563
-278.278	0.00106	1.77E-20	0.00564	0.00311	0.00562
-278.779	0.00105	1.75E-20	0.00562	0.0031	0.00561
-279.279	0.00104	1.84E-20	0.00561	0.00308	0.0056
-279.78	0.00103	1.82E-20	0.0056	0.00307	0.0056
-280.28	0.00102	1.87E-20	0.00559	0.00306	0.00558
-280.781	0.00101	1.92E-20	0.00558	0.00304	0.00558
-281.281	0.001	1.98E-20	0.00557	0.00303	0.00557
-281.782	9.94E-04	1.95E-20	0.00556	0.00302	0.00556
-282.282	9.85E-04	1.83E-20	0.00555	0.003	0.00555
-282.783	9.76E-04	1.87E-20	0.00554	0.00299	0.00554
-283.283	9.68E-04	1.76E-20	0.00553	0.00298	0.00553
-283.784	9.60E-04	1.83E-20	0.00552	0.00296	0.00552
-284.284	9.51E-04	1.86E-20	0.00551	0.00295	0.00551
-284.785	9.43E-04	1.88E-20	0.0055	0.00294	0.0055
-285.285	9.35E-04	1.98E-20	0.00549	0.00292	0.00549
-285.786	9.27E-04	1.87E-20	0.00548	0.00291	0.00548
-286.286	9.19E-04	1.87E-20	0.00547	0.0029	0.00547
-286.787	9.11E-04	1.74E-20	0.00546	0.00288	0.00547
-287.287	9.03E-04	1.68E-20	0.00545	0.00287	0.00546
-287.788	8.95E-04	1.68E-20	0.00544	0.00286	0.00545
-288.288	8.88E-04	1.64E-20	0.00543	0.00284	0.00544
-288.789	8.80E-04	1.65E-20	0.00542	0.00283	0.00543
-289.289	8.72E-04	1.54E-20	0.00541	0.00282	0.00542
-289.79	8.65E-04	1.67E-20	0.0054	0.00281	0.00541
-290.29	8.57E-04	1.59E-20	0.00539	0.0028	0.0054
-290.791	8.50E-04	1.64E-20	0.00538	0.00278	0.00539
-291.291	8.43E-04	1.58E-20	0.00537	0.00277	0.00539
-291.792	8.35E-04	1.56E-20	0.00536	0.00276	0.00538
-292.292	8.28E-04	1.70E-20	0.00535	0.00275	0.00537
-292.793	8.21E-04	1.66E-20	0.00534	0.00273	0.00536
-293.293	8.14E-04	1.77E-20	0.00533	0.00272	0.00535
-293.794	8.07E-04	1.63E-20	0.00532	0.00271	0.00534
-294.294	8.00E-04	1.65E-20	0.00531	0.0027	0.00533
-294.795	7.93E-04	1.60E-20	0.0053	0.00269	0.00532
-295.295	7.86E-04	1.54E-20	0.00529	0.00267	0.00532
-295.796	7.79E-04	1.55E-20	0.00528	0.00266	0.00531
-296.296	7.73E-04	1.52E-20	0.00527	0.00265	0.0053
-296.797	7.66E-04	1.54E-20	0.00526	0.00264	0.00529
-297.297	7.59E-04	1.58E-20	0.00525	0.00263	0.00528
-297.798	7.53E-04	1.57E-20	0.00524	0.00262	0.00527
-298.298	7.46E-04	1.51E-20	0.00523	0.0026	0.00526

-298.799	7.40E-04	1.46E-20	0.00522	0.00259	0.00526
-299.299	7.33E-04	1.42E-20	0.00522	0.00258	0.00525
-299.8	7.27E-04	1.45E-20	0.00521	0.00257	0.00524
-300.3	7.21E-04	1.38E-20	0.0052	0.00256	0.00523
-300.801	7.15E-04	1.36E-20	0.00519	0.00255	0.00522
-301.301	7.08E-04	1.36E-20	0.00518	0.00254	0.00521
-301.802	7.02E-04	1.29E-20	0.00517	0.00253	0.00521
-302.302	6.96E-04	1.29E-20	0.00516	0.00251	0.0052
-302.803	6.90E-04	1.30E-20	0.00515	0.0025	0.00519
-303.303	6.84E-04	1.25E-20	0.00514	0.00249	0.00518
-303.804	6.78E-04	1.35E-20	0.00513	0.00248	0.00517
-304.304	6.73E-04	1.18E-20	0.00512	0.00247	0.00516
-304.805	6.67E-04	1.20E-20	0.00511	0.00246	0.00516
-305.305	6.61E-04	1.19E-20	0.0051	0.00245	0.00515
-305.806	6.55E-04	1.17E-20	0.00509	0.00244	0.00514
-306.306	6.50E-04	1.27E-20	0.00509	0.00243	0.00513
-306.807	6.44E-04	1.11E-20	0.00508	0.00242	0.00512
-307.307	6.38E-04	1.14E-20	0.00507	0.00241	0.00511
-307.808	6.33E-04	1.07E-20	0.00506	0.0024	0.00511
-308.308	6.27E-04	1.11E-20	0.00505	0.00239	0.0051
-308.809	6.22E-04	1.17E-20	0.00504	0.00238	0.00509
-309.309	6.17E-04	1.08E-20	0.00503	0.00237	0.00508
-309.81	6.11E-04	1.14E-20	0.00502	0.00236	0.00507
-310.31	6.06E-04	1.02E-20	0.00502	0.00235	0.00507
-310.811	6.01E-04	1.01E-20	0.00501	0.00234	0.00506
-311.311	5.96E-04	1.04E-20	0.005	0.00233	0.00505
-311.812	5.91E-04	1.02E-20	0.00499	0.00232	0.00504
-312.312	5.85E-04	1.12E-20	0.00498	0.00231	0.00504
-312.813	5.80E-04	9.73E-21	0.00497	0.0023	0.00503
-313.313	5.75E-04	9.94E-21	0.00496	0.00229	0.00502
-313.814	5.70E-04	9.78E-21	0.00495	0.00228	0.00501
-314.314	5.65E-04	8.94E-21	0.00494	0.00227	0.005
-314.815	5.61E-04	1.02E-20	0.00494	0.00226	0.005
-315.315	5.56E-04	9.24E-21	0.00493	0.00225	0.00499
-315.816	5.51E-04	9.78E-21	0.00492	0.00224	0.00498
-316.316	5.46E-04	8.97E-21	0.00491	0.00223	0.00497
-316.817	5.41E-04	8.81E-21	0.0049	0.00222	0.00497
-317.317	5.37E-04	8.71E-21	0.00489	0.00221	0.00496
-317.818	5.32E-04	7.75E-21	0.00488	0.0022	0.00495
-318.318	5.28E-04	8.54E-21	0.00488	0.00219	0.00494
-318.819	5.23E-04	7.82E-21	0.00487	0.00218	0.00494
-319.319	5.19E-04	8.10E-21	0.00486	0.00217	0.00493
-319.82	5.14E-04	7.71E-21	0.00485	0.00216	0.00492
-320.32	5.10E-04	7.35E-21	0.00484	0.00215	0.00491
-320.821	5.05E-04	7.31E-21	0.00483	0.00215	0.0049
-321.321	5.01E-04	6.82E-21	0.00483	0.00214	0.0049
-321.822	4.97E-04	7.13E-21	0.00482	0.00213	0.00489
-322.322	4.92E-04	6.57E-21	0.00481	0.00212	0.00488
-322.823	4.88E-04	6.53E-21	0.0048	0.00211	0.00488

-323.323	4.84E-04	6.10E-21	0.00479	0.0021	0.00487
-323.824	4.80E-04	5.60E-21	0.00479	0.00209	0.00486
-324.324	4.75E-04	5.69E-21	0.00478	0.00208	0.00485
-324.825	4.71E-04	5.53E-21	0.00477	0.00207	0.00485
-325.325	4.67E-04	5.85E-21	0.00476	0.00207	0.00484
-325.826	4.63E-04	5.20E-21	0.00475	0.00206	0.00483
-326.326	4.59E-04	5.14E-21	0.00475	0.00205	0.00482
-326.827	4.55E-04	5.10E-21	0.00474	0.00204	0.00482
-327.327	4.51E-04	4.52E-21	0.00473	0.00203	0.00481
-327.828	4.47E-04	4.82E-21	0.00472	0.00202	0.0048
-328.328	4.44E-04	4.50E-21	0.00471	0.00201	0.00479
-328.829	4.40E-04	4.76E-21	0.00471	0.00201	0.00479
-329.329	4.36E-04	4.38E-21	0.0047	0.002	0.00478
-329.83	4.32E-04	4.33E-21	0.00469	0.00199	0.00477
-330.33	4.28E-04	4.27E-21	0.00468	0.00198	0.00477
-330.831	4.25E-04	3.88E-21	0.00467	0.00197	0.00476
-331.331	4.21E-04	4.11E-21	0.00466	0.00196	0.00475
-331.832	4.17E-04	3.48E-21	0.00466	0.00196	0.00475
-332.332	4.14E-04	3.76E-21	0.00465	0.00195	0.00474
-332.833	4.10E-04	3.68E-21	0.00464	0.00194	0.00473
-333.333	4.07E-04	3.74E-21	0.00463	0.00193	0.00472
-333.834	4.03E-04	3.53E-21	0.00463	0.00192	0.00472
-334.334	4.00E-04	3.32E-21	0.00462	0.00192	0.00471
-334.835	3.96E-04	3.21E-21	0.00461	0.00191	0.0047
-335.335	3.93E-04	2.82E-21	0.0046	0.0019	0.0047
-335.836	3.90E-04	2.96E-21	0.0046	0.00189	0.00469
-336.336	3.86E-04	2.81E-21	0.00459	0.00189	0.00468
-336.837	3.83E-04	2.79E-21	0.00458	0.00188	0.00467
-337.337	3.80E-04	2.56E-21	0.00457	0.00187	0.00467
-337.838	3.76E-04	2.35E-21	0.00456	0.00186	0.00466
-338.338	3.73E-04	2.31E-21	0.00456	0.00185	0.00465
-338.839	3.70E-04	2.26E-21	0.00455	0.00185	0.00465
-339.339	3.67E-04	2.21E-21	0.00454	0.00184	0.00464
-339.84	3.63E-04	2.01E-21	0.00453	0.00183	0.00463
-340.34	3.60E-04	1.88E-21	0.00453	0.00182	0.00463
-340.841	3.57E-04	1.79E-21	0.00452	0.00182	0.00462
-341.341	3.54E-04	1.75E-21	0.00451	0.00181	0.00461
-341.842	3.51E-04	1.73E-21	0.00451	0.0018	0.00461
-342.342	3.48E-04	1.60E-21	0.0045	0.00179	0.0046
-342.843	3.45E-04	1.51E-21	0.00449	0.00179	0.00459
-343.343	3.42E-04	1.38E-21	0.00448	0.00178	0.00459
-343.844	3.39E-04	1.39E-21	0.00447	0.00177	0.00458
-344.344	3.36E-04	1.35E-21	0.00447	0.00176	0.00457
-344.845	3.33E-04	1.28E-21	0.00446	0.00176	0.00457
-345.345	3.30E-04	1.23E-21	0.00445	0.00175	0.00456
-345.846	3.27E-04	1.12E-21	0.00445	0.00174	0.00455
-346.346	3.25E-04	1.12E-21	0.00444	0.00174	0.00455
-346.847	3.22E-04	1.08E-21	0.00443	0.00173	0.00454
-347.347	3.19E-04	1.05E-21	0.00442	0.00172	0.00453

-347.848	3.16E-04	1.04E-21	0.00442	0.00171	0.00453
-348.348	3.14E-04	9.43E-22	0.00441	0.00171	0.00452
-348.849	3.11E-04	8.55E-22	0.0044	0.0017	0.00451
-349.349	3.08E-04	8.58E-22	0.00439	0.00169	0.00451
-349.85	3.06E-04	8.56E-22	0.00439	0.00169	0.0045
-350.35	3.03E-04	8.65E-22	0.00438	0.00168	0.00449
-350.851	3.00E-04	7.74E-22	0.00437	0.00167	0.00449
-351.351	2.98E-04	7.21E-22	0.00437	0.00167	0.00448
-351.852	2.95E-04	6.99E-22	0.00436	0.00166	0.00447
-352.352	2.93E-04	6.34E-22	0.00435	0.00165	0.00447
-352.853	2.90E-04	6.69E-22	0.00434	0.00165	0.00446
-353.353	2.88E-04	6.14E-22	0.00434	0.00164	0.00445
-353.854	2.85E-04	5.90E-22	0.00433	0.00163	0.00445
-354.354	2.83E-04	5.24E-22	0.00432	0.00163	0.00444
-354.855	2.80E-04	4.83E-22	0.00432	0.00162	0.00444
-355.355	2.78E-04	4.57E-22	0.00431	0.00161	0.00443
-355.856	2.75E-04	4.17E-22	0.0043	0.00161	0.00442
-356.356	2.73E-04	3.90E-22	0.0043	0.0016	0.00442
-356.857	2.71E-04	3.58E-22	0.00429	0.00159	0.00441
-357.357	2.68E-04	3.52E-22	0.00428	0.00159	0.0044
-357.858	2.66E-04	3.17E-22	0.00428	0.00158	0.0044
-358.358	2.64E-04	3.06E-22	0.00427	0.00158	0.00439
-358.859	2.61E-04	2.71E-22	0.00426	0.00157	0.00439
-359.359	2.59E-04	2.63E-22	0.00426	0.00156	0.00438
-359.86	2.57E-04	2.34E-22	0.00425	0.00156	0.00437
-360.36	2.55E-04	2.33E-22	0.00424	0.00155	0.00437
-360.861	2.52E-04	2.25E-22	0.00424	0.00154	0.00436
-361.361	2.50E-04	2.14E-22	0.00423	0.00154	0.00436
-361.862	2.48E-04	1.99E-22	0.00422	0.00153	0.00435
-362.362	2.46E-04	1.75E-22	0.00422	0.00153	0.00434
-362.863	2.44E-04	1.71E-22	0.00421	0.00152	0.00434
-363.363	2.42E-04	1.67E-22	0.0042	0.00151	0.00433
-363.864	2.40E-04	1.67E-22	0.00419	0.00151	0.00432
-364.364	2.38E-04	1.56E-22	0.00419	0.0015	0.00432
-364.865	2.36E-04	1.47E-22	0.00418	0.0015	0.00431
-365.365	2.34E-04	1.43E-22	0.00417	0.00149	0.00431
-365.866	2.32E-04	1.25E-22	0.00417	0.00148	0.0043
-366.366	2.30E-04	1.26E-22	0.00416	0.00148	0.00429
-366.867	2.28E-04	1.12E-22	0.00415	0.00147	0.00429
-367.367	2.26E-04	1.13E-22	0.00415	0.00147	0.00428
-367.868	2.24E-04	1.06E-22	0.00414	0.00146	0.00428
-368.368	2.22E-04	9.98E-23	0.00414	0.00145	0.00427
-368.869	2.20E-04	9.20E-23	0.00413	0.00145	0.00426
-369.369	2.18E-04	8.19E-23	0.00412	0.00144	0.00426
-369.87	2.16E-04	7.95E-23	0.00412	0.00144	0.00425
-370.37	2.14E-04	7.01E-23	0.00411	0.00143	0.00425
-370.871	2.12E-04	7.14E-23	0.0041	0.00143	0.00424
-371.371	2.10E-04	6.33E-23	0.0041	0.00142	0.00423
-371.872	2.09E-04	6.21E-23	0.00409	0.00142	0.00423

-372.372	2.07E-04	5.29E-23	0.00408	0.00141	0.00422
-372.873	2.05E-04	5.27E-23	0.00408	0.0014	0.00422
-373.373	2.03E-04	5.13E-23	0.00407	0.0014	0.00421
-373.874	2.02E-04	4.92E-23	0.00407	0.00139	0.00421
-374.374	2.00E-04	4.59E-23	0.00406	0.00139	0.0042
-374.875	1.98E-04	4.16E-23	0.00405	0.00138	0.00419
-375.375	1.96E-04	3.93E-23	0.00405	0.00138	0.00419
-375.876	1.95E-04	3.47E-23	0.00404	0.00137	0.00418
-376.376	1.93E-04	3.46E-23	0.00403	0.00137	0.00418
-376.877	1.91E-04	3.36E-23	0.00403	0.00136	0.00417
-377.377	1.90E-04	3.18E-23	0.00402	0.00136	0.00417
-377.878	1.88E-04	2.94E-23	0.00402	0.00135	0.00416
-378.378	1.86E-04	2.63E-23	0.00401	0.00134	0.00415
-378.879	1.85E-04	2.53E-23	0.004	0.00134	0.00415
-379.379	1.83E-04	2.24E-23	0.004	0.00133	0.00414
-379.88	1.82E-04	2.29E-23	0.00399	0.00133	0.00414
-380.38	1.80E-04	2.16E-23	0.00398	0.00132	0.00413
-380.881	1.79E-04	2.07E-23	0.00398	0.00132	0.00413
-381.381	1.77E-04	1.93E-23	0.00397	0.00131	0.00412
-381.882	1.75E-04	1.74E-23	0.00397	0.00131	0.00411
-382.382	1.74E-04	1.66E-23	0.00396	0.0013	0.00411
-382.883	1.72E-04	1.43E-23	0.00395	0.0013	0.0041
-383.383	1.71E-04	1.46E-23	0.00395	0.00129	0.0041
-383.884	1.69E-04	1.38E-23	0.00394	0.00129	0.00409
-384.384	1.68E-04	1.32E-23	0.00394	0.00128	0.00409
-384.885	1.67E-04	1.22E-23	0.00393	0.00128	0.00408
-385.385	1.65E-04	1.11E-23	0.00392	0.00127	0.00407
-385.886	1.64E-04	1.07E-23	0.00392	0.00127	0.00407
-386.386	1.62E-04	9.25E-24	0.00391	0.00126	0.00406
-386.887	1.61E-04	9.25E-24	0.00391	0.00126	0.00406
-387.387	1.59E-04	8.11E-24	0.0039	0.00125	0.00405
-387.888	1.58E-04	7.96E-24	0.00389	0.00125	0.00405
-388.388	1.57E-04	7.44E-24	0.00389	0.00124	0.00404
-388.889	1.55E-04	6.83E-24	0.00388	0.00124	0.00404
-389.389	1.54E-04	6.27E-24	0.00388	0.00123	0.00403
-389.89	1.53E-04	5.57E-24	0.00387	0.00123	0.00403
-390.39	1.51E-04	5.38E-24	0.00386	0.00123	0.00402
-390.891	1.50E-04	4.70E-24	0.00386	0.00122	0.00402
-391.391	1.49E-04	4.67E-24	0.00385	0.00121	0.00401
-391.892	1.48E-04	4.11E-24	0.00385	0.00121	0.004
-392.392	1.46E-04	3.94E-24	0.00384	0.00121	0.004
-392.893	1.45E-04	3.36E-24	0.00383	0.0012	0.00399
-393.393	1.44E-04	3.35E-24	0.00383	0.0012	0.00399
-393.894	1.42E-04	3.26E-24	0.00382	0.00119	0.00398
-394.394	1.41E-04	3.05E-24	0.00382	0.00119	0.00398
-394.895	1.40E-04	2.85E-24	0.00381	0.00118	0.00397
-395.395	1.39E-04	2.52E-24	0.00381	0.00118	0.00397
-395.896	1.38E-04	2.41E-24	0.0038	0.00117	0.00396
-396.396	1.36E-04	2.14E-24	0.0038	0.00117	0.00396

-396.897	1.35E-04	2.12E-24	0.00379	0.00117	0.00395
-397.397	1.34E-04	2.03E-24	0.00378	0.00116	0.00395
-397.898	1.33E-04	1.89E-24	0.00378	0.00116	0.00394
-398.398	1.32E-04	1.76E-24	0.00377	0.00115	0.00394
-398.899	1.31E-04	1.51E-24	0.00377	0.00115	0.00393
-399.399	1.30E-04	1.46E-24	0.00376	0.00114	0.00392
-399.9	1.28E-04	1.41E-24	0.00376	0.00114	0.00392
-400.4	1.27E-04	1.35E-24	0.00375	0.00113	0.00392
-400.901	1.26E-04	1.25E-24	0.00374	0.00113	0.00391
-401.401	1.25E-04	1.12E-24	0.00374	0.00113	0.00391
-401.902	1.24E-04	1.04E-24	0.00373	0.00112	0.0039
-402.402	1.23E-04	9.71E-25	0.00373	0.00112	0.00389
-402.903	1.22E-04	9.35E-25	0.00372	0.00111	0.00389
-403.403	1.21E-04	8.96E-25	0.00372	0.00111	0.00388
-403.904	1.20E-04	8.07E-25	0.00371	0.00111	0.00388
-404.404	1.19E-04	7.48E-25	0.00371	0.0011	0.00387
-404.905	1.18E-04	6.38E-25	0.0037	0.0011	0.00387
-405.405	1.17E-04	6.22E-25	0.00369	0.00109	0.00386
-405.906	1.16E-04	6.05E-25	0.00369	0.00109	0.00386
-406.406	1.15E-04	5.62E-25	0.00368	0.00108	0.00385
-406.907	1.14E-04	5.11E-25	0.00368	0.00108	0.00385
-407.407	1.13E-04	4.54E-25	0.00367	0.00108	0.00384
-407.908	1.12E-04	4.33E-25	0.00367	0.00107	0.00384
-408.408	1.11E-04	3.76E-25	0.00366	0.00107	0.00383
-408.909	1.10E-04	3.77E-25	0.00366	0.00106	0.00383
-409.409	1.09E-04	3.17E-25	0.00365	0.00106	0.00382
-409.91	1.08E-04	3.10E-25	0.00365	0.00106	0.00382
-410.41	1.07E-04	2.91E-25	0.00364	0.00105	0.00381
-410.911	1.06E-04	2.76E-25	0.00364	0.00105	0.00381
-411.411	1.05E-04	2.56E-25	0.00363	0.00104	0.0038
-411.912	1.04E-04	2.33E-25	0.00362	0.00104	0.0038
-412.412	1.03E-04	2.19E-25	0.00362	0.00104	0.00379
-412.913	1.03E-04	1.93E-25	0.00361	0.00103	0.00379
-413.413	1.02E-04	1.91E-25	0.00361	0.00103	0.00378
-413.914	1.01E-04	1.61E-25	0.0036	0.00103	0.00378
-414.414	9.98E-05	1.57E-25	0.0036	0.00102	0.00377
-414.915	9.90E-05	1.43E-25	0.00359	0.00102	0.00377
-415.415	9.81E-05	1.37E-25	0.00359	0.00101	0.00377
-415.916	9.73E-05	1.27E-25	0.00358	0.00101	0.00376
-416.416	9.64E-05	1.14E-25	0.00358	0.00101	0.00376
-416.917	9.56E-05	1.03E-25	0.00357	0.001	0.00375
-417.417	9.48E-05	9.05E-26	0.00357	9.98E-04	0.00375
-417.918	9.40E-05	8.39E-26	0.00356	9.94E-04	0.00374
-418.418	9.31E-05	7.43E-26	0.00356	9.91E-04	0.00374
-418.919	9.23E-05	7.25E-26	0.00355	9.87E-04	0.00373
-419.419	9.15E-05	6.46E-26	0.00355	9.83E-04	0.00373
-419.92	9.07E-05	6.19E-26	0.00354	9.80E-04	0.00372
-420.42	9.00E-05	5.36E-26	0.00354	9.76E-04	0.00372
-420.921	8.92E-05	5.08E-26	0.00353	9.72E-04	0.00371

-421.421	8.84E-05	4.36E-26	0.00353	9.69E-04	0.00371
-421.922	8.77E-05	4.19E-26	0.00352	9.65E-04	0.0037
-422.422	8.69E-05	3.93E-26	0.00351	9.62E-04	0.0037
-422.923	8.61E-05	3.51E-26	0.00351	9.58E-04	0.00369
-423.423	8.54E-05	3.12E-26	0.0035	9.55E-04	0.00369
-423.924	8.47E-05	2.87E-26	0.0035	9.51E-04	0.00368
-424.424	8.39E-05	2.66E-26	0.00349	9.48E-04	0.00368
-424.925	8.32E-05	2.53E-26	0.00349	9.44E-04	0.00367
-425.425	8.25E-05	2.17E-26	0.00348	9.41E-04	0.00367
-425.926	8.18E-05	2.02E-26	0.00348	9.37E-04	0.00366
-426.426	8.11E-05	1.87E-26	0.00347	9.34E-04	0.00365
-426.927	8.04E-05	1.75E-26	0.00347	9.30E-04	0.00365
-427.427	7.97E-05	1.65E-26	0.00347	9.27E-04	0.00364
-427.928	7.90E-05	1.50E-26	0.00346	9.23E-04	0.00364
-428.428	7.83E-05	1.47E-26	0.00346	9.20E-04	0.00363
-428.929	7.76E-05	1.30E-26	0.00345	9.17E-04	0.00363
-429.429	7.70E-05	1.33E-26	0.00345	9.13E-04	0.00362
-429.93	7.63E-05	1.16E-26	0.00344	9.10E-04	0.00362
-430.43	7.56E-05	1.18E-26	0.00344	9.07E-04	0.00361
-430.931	7.50E-05	1.04E-26	0.00343	9.03E-04	0.00361
-431.431	7.43E-05	1.07E-26	0.00343	9.00E-04	0.0036
-431.932	7.37E-05	1.05E-26	0.00342	8.97E-04	0.00359
-432.432	7.31E-05	9.81E-27	0.00342	8.93E-04	0.00359
-432.933	7.24E-05	9.45E-27	0.00341	8.90E-04	0.00358
-433.433	7.18E-05	8.34E-27	0.00341	8.87E-04	0.00358
-433.934	7.12E-05	8.33E-27	0.0034	8.84E-04	0.00357
-434.434	7.06E-05	6.99E-27	0.0034	8.80E-04	0.00356
-434.935	7.00E-05	7.16E-27	0.00339	8.77E-04	0.00356
-435.435	6.94E-05	7.01E-27	0.00339	8.74E-04	0.00355
-435.936	6.88E-05	6.81E-27	0.00338	8.71E-04	0.00354
-436.436	6.82E-05	6.40E-27	0.00338	8.68E-04	0.00353
-436.937	6.76E-05	5.83E-27	0.00337	8.64E-04	0.00353
-437.437	6.70E-05	5.57E-27	0.00337	8.61E-04	0.00352
-437.938	6.64E-05	4.80E-27	0.00336	8.58E-04	0.00351
-438.438	6.58E-05	4.85E-27	0.00336	8.55E-04	0.0035
-438.939	6.53E-05	4.67E-27	0.00335	8.52E-04	0.00349
-439.44	6.47E-05	4.47E-27	0.00335	8.49E-04	0.00348
-439.94	6.42E-05	4.11E-27	0.00334	8.46E-04	0.00347
-440.44	6.36E-05	3.75E-27	0.00334	8.43E-04	0.00347
-440.941	6.31E-05	3.58E-27	0.00333	8.40E-04	0.00346
-441.441	6.25E-05	3.13E-27	0.00333	8.37E-04	0.00344
-441.942	6.20E-05	3.16E-27	0.00333	8.34E-04	0.00343
-442.442	6.14E-05	3.04E-27	0.00332	8.31E-04	0.00342
-442.943	6.09E-05	2.94E-27	0.00332	8.28E-04	0.00341
-443.444	6.04E-05	2.75E-27	0.00331	8.25E-04	0.0034
-443.944	5.99E-05	2.56E-27	0.00331	8.22E-04	0.00339
-444.444	5.93E-05	2.55E-27	0.0033	8.19E-04	0.00337
-444.945	5.88E-05	2.22E-27	0.0033	8.16E-04	0.00336
-445.445	5.83E-05	2.37E-27	0.00329	8.13E-04	0.00335

-445.946	5.78E-05	2.12E-27	0.00329	8.10E-04	0.00333
-446.446	5.73E-05	2.13E-27	0.00328	8.07E-04	0.00332
-446.947	5.68E-05	1.99E-27	0.00328	8.04E-04	0.0033
-447.447	5.63E-05	1.83E-27	0.00328	8.01E-04	0.00329
-447.948	5.58E-05	1.75E-27	0.00327	7.98E-04	0.00327
-448.448	5.54E-05	1.54E-27	0.00327	7.95E-04	0.00325
-448.949	5.49E-05	1.52E-27	0.00326	7.92E-04	0.00324
-449.449	5.44E-05	1.39E-27	0.00326	7.90E-04	0.00322
-449.95	5.39E-05	1.39E-27	0.00325	7.87E-04	0.0032
-450.45	5.35E-05	1.35E-27	0.00325	7.84E-04	0.00318
-450.951	5.30E-05	1.35E-27	0.00324	7.81E-04	0.00316
-451.451	5.26E-05	1.27E-27	0.00324	7.78E-04	0.00314
-451.952	5.21E-05	1.30E-27	0.00324	7.76E-04	0.00312
-452.453	5.17E-05	1.16E-27	0.00323	7.73E-04	0.0031
-452.953	5.12E-05	1.20E-27	0.00323	7.70E-04	0.00307
-453.453	5.08E-05	1.14E-27	0.00322	7.67E-04	0.00305
-453.954	5.03E-05	1.13E-27	0.00322	7.65E-04	0.00302
-454.454	4.99E-05	1.04E-27	0.00321	7.62E-04	0.003
-454.955	4.95E-05	9.64E-28	0.00321	7.59E-04	0.00297
-455.455	4.90E-05	9.46E-28	0.0032	7.56E-04	0.00295
-455.956	4.86E-05	8.40E-28	0.0032	7.54E-04	0.00292
-456.457	4.82E-05	8.70E-28	0.00319	7.51E-04	0.00289
-456.957	4.78E-05	8.07E-28	0.00319	7.48E-04	0.00286
-457.457	4.74E-05	8.32E-28	0.00319	7.46E-04	0.00283
-457.958	4.70E-05	7.84E-28	0.00318	7.43E-04	0.0028
-458.458	4.65E-05	8.18E-28	0.00318	7.40E-04	0.00277
-458.959	4.61E-05	8.18E-28	0.00317	7.38E-04	0.00274
-459.46	4.57E-05	8.18E-28	0.00317	7.35E-04	0.00271
-459.96	4.54E-05	7.65E-28	0.00316	7.33E-04	0.00268
-460.46	4.50E-05	8.21E-28	0.00316	7.30E-04	0.00264
-460.961	4.46E-05	7.84E-28	0.00316	7.27E-04	0.00261
-461.461	4.42E-05	7.71E-28	0.00315	7.25E-04	0.00258
-461.962	4.38E-05	7.24E-28	0.00315	7.22E-04	0.00254
-462.462	4.34E-05	7.07E-28	0.00314	7.20E-04	0.0025
-462.963	4.31E-05	6.64E-28	0.00314	7.17E-04	0.00247
-463.464	4.27E-05	6.60E-28	0.00313	7.15E-04	0.00243
-463.964	4.23E-05	5.82E-28	0.00313	7.12E-04	0.00239
-464.465	4.19E-05	5.74E-28	0.00313	7.09E-04	0.00235
-464.965	4.16E-05	5.18E-28	0.00312	7.07E-04	0.00231
-465.466	4.12E-05	4.87E-28	0.00312	7.04E-04	0.00228
-465.966	4.09E-05	5.01E-28	0.00311	7.02E-04	0.00224
-466.466	4.05E-05	4.58E-28	0.00311	7.00E-04	0.0022
-466.967	4.02E-05	4.99E-28	0.00311	6.97E-04	0.00216
-467.467	3.98E-05	4.58E-28	0.0031	6.95E-04	0.00212
-467.968	3.95E-05	4.78E-28	0.0031	6.92E-04	0.00207
-468.469	3.91E-05	4.25E-28	0.00309	6.90E-04	0.00203
-468.969	3.88E-05	4.35E-28	0.00309	6.87E-04	0.00199
-469.47	3.85E-05	3.76E-28	0.00308	6.85E-04	0.00195
-469.97	3.81E-05	3.77E-28	0.00308	6.82E-04	0.00191

-470.47	3.78E-05	3.41E-28	0.00308	6.80E-04	0.00187
-470.971	3.75E-05	3.36E-28	0.00307	6.78E-04	0.00182
-471.471	3.72E-05	3.07E-28	0.00307	6.75E-04	0.00178
-471.972	3.68E-05	3.04E-28	0.00306	6.73E-04	0.00174
-472.473	3.65E-05	3.20E-28	0.00306	6.71E-04	0.0017
-472.973	3.62E-05	3.26E-28	0.00306	6.68E-04	0.00166
-473.474	3.59E-05	3.54E-28	0.00305	6.66E-04	0.00161
-473.974	3.56E-05	3.62E-28	0.00305	6.64E-04	0.00157
-474.474	3.53E-05	3.94E-28	0.00304	6.61E-04	0.00153
-474.975	3.50E-05	3.81E-28	0.00304	6.59E-04	0.00149
-475.475	3.47E-05	4.11E-28	0.00303	6.57E-04	0.00145
-475.976	3.44E-05	4.01E-28	0.00303	6.54E-04	0.00141
-476.477	3.41E-05	4.18E-28	0.00303	6.52E-04	0.00137
-476.977	3.38E-05	3.84E-28	0.00302	6.50E-04	0.00133
-477.478	3.35E-05	3.71E-28	0.00302	6.48E-04	0.00129
-477.978	3.32E-05	3.42E-28	0.00301	6.45E-04	0.00125
-478.478	3.29E-05	3.14E-28	0.00301	6.43E-04	0.00121
-478.979	3.26E-05	3.36E-28	0.00301	6.41E-04	0.00117
-479.479	3.23E-05	3.05E-28	0.003	6.39E-04	0.00113
-479.98	3.21E-05	3.23E-28	0.003	6.36E-04	0.00109
-480.48	3.18E-05	3.06E-28	0.00299	6.34E-04	0.00106
-480.981	3.15E-05	3.17E-28	0.00299	6.32E-04	0.00102
-481.482	3.12E-05	2.85E-28	0.00299	6.30E-04	9.84E-04
-481.982	3.10E-05	2.93E-28	0.00298	6.28E-04	9.48E-04
-482.483	3.07E-05	2.74E-28	0.00298	6.25E-04	9.14E-04
-482.983	3.04E-05	2.95E-28	0.00297	6.23E-04	8.80E-04
-483.483	3.02E-05	2.71E-28	0.00297	6.21E-04	8.47E-04
-483.984	2.99E-05	2.75E-28	0.00297	6.19E-04	8.14E-04
-484.484	2.97E-05	2.55E-28	0.00296	6.17E-04	7.82E-04
-484.985	2.94E-05	2.52E-28	0.00296	6.15E-04	7.51E-04
-485.486	2.91E-05	2.85E-28	0.00296	6.12E-04	7.21E-04
-485.986	2.89E-05	2.77E-28	0.00295	6.10E-04	6.91E-04
-486.487	2.86E-05	3.32E-28	0.00295	6.08E-04	6.62E-04
-486.987	2.84E-05	3.53E-28	0.00294	6.06E-04	6.34E-04
-487.487	2.82E-05	3.98E-28	0.00294	6.04E-04	6.07E-04
-487.988	2.79E-05	3.97E-28	0.00294	6.02E-04	5.80E-04
-488.488	2.77E-05	3.98E-28	0.00293	6.00E-04	5.54E-04
-488.989	2.74E-05	3.95E-28	0.00293	5.98E-04	5.29E-04
-489.49	2.72E-05	3.55E-28	0.00292	5.96E-04	5.05E-04
-489.99	2.70E-05	3.90E-28	0.00292	5.94E-04	4.81E-04
-490.491	2.67E-05	3.19E-28	0.00292	5.92E-04	4.59E-04
-490.991	2.65E-05	3.39E-28	0.00291	5.90E-04	4.37E-04
-491.491	2.63E-05	3.29E-28	0.00291	5.88E-04	4.15E-04
-491.992	2.60E-05	3.20E-28	0.0029	5.86E-04	3.95E-04
-492.492	2.58E-05	3.01E-28	0.0029	5.84E-04	3.75E-04
-492.993	2.56E-05	2.95E-28	0.0029	5.82E-04	3.56E-04
-493.493	2.54E-05	2.75E-28	0.00289	5.80E-04	3.38E-04
-493.994	2.52E-05	2.65E-28	0.00289	5.78E-04	3.20E-04
-494.495	2.49E-05	2.42E-28	0.00289	5.76E-04	3.03E-04

-494.995	2.47E-05	2.34E-28	0.00288	5.74E-04	2.87E-04
-495.496	2.45E-05	2.10E-28	0.00288	5.72E-04	2.71E-04
-495.996	2.43E-05	2.00E-28	0.00287	5.70E-04	2.56E-04
-496.496	2.41E-05	1.78E-28	0.00287	5.68E-04	2.42E-04
-496.997	2.39E-05	1.67E-28	0.00287	5.66E-04	2.28E-04
-497.497	2.37E-05	1.47E-28	0.00286	5.64E-04	2.15E-04
-497.998	2.35E-05	1.37E-28	0.00286	5.62E-04	2.03E-04
-498.499	2.33E-05	1.20E-28	0.00286	5.60E-04	1.91E-04
-498.999	2.31E-05	1.10E-28	0.00285	5.58E-04	1.79E-04
-499.5	2.28E-05	9.74E-29	0.00285	5.56E-04	1.67E-04
-500	2.28E-05	9.74E-29	0.00285	5.56E-04	1.67E-04

Data for Figure 4c – RGO-ZnO						
Depth (cm)	S/C_o (cm^3/g)					
	M1-fitted	M2-fitted	M3-fitted	M4-fitted	M5-fitted	M6-fitted
0	0.0686	0.08639	0.4335	0.0737	0.04772	0.3454
-0.5005	0.06827	0.08639	0.1332	0.07086	0.04772	0.1064
-1.001	0.06796	0.08639	0.09946	0.0672	0.04772	0.07956
-1.5015	0.06766	0.08639	0.08341	0.06409	0.04772	0.0668
-2.002	0.06735	0.08639	0.07346	0.06144	0.04772	0.0589
-2.5025	0.06704	0.08639	0.0665	0.05917	0.04772	0.05337
-3.003	0.06674	0.08639	0.06126	0.05718	0.04772	0.04921
-3.5035	0.06643	0.08639	0.05712	0.05542	0.04772	0.04592
-4.004	0.06613	0.08639	0.05375	0.05385	0.04772	0.04324
-4.5045	0.06583	0.08639	0.05092	0.05242	0.04772	0.04099
-5.005	0.06553	0.08639	0.0485	0.05112	0.04772	0.03907
-5.5055	0.06523	0.08639	0.0464	0.04992	0.04772	0.03741
-6.006	0.06493	0.08639	0.04456	0.04882	0.04772	0.03595
-6.5065	0.06464	0.08639	0.04292	0.04779	0.04772	0.03465
-7.007	0.06434	0.08639	0.04145	0.04683	0.04772	0.03348
-7.5075	0.06405	0.08639	0.04012	0.04594	0.04772	0.03243
-8.008	0.06376	0.08639	0.03891	0.04509	0.04772	0.03147
-8.5085	0.06347	0.08639	0.03781	0.0443	0.04772	0.03059
-9.009	0.06318	0.08639	0.03679	0.04355	0.04772	0.02979
-9.5095	0.06289	0.08639	0.03585	0.04284	0.04772	0.02904
-10.01	0.06261	0.08639	0.03498	0.04216	0.04772	0.02835
-10.5105	0.06232	0.08639	0.03416	0.04152	0.04772	0.0277
-11.011	0.06204	0.08639	0.03341	0.04091	0.04772	0.0271
-11.5115	0.06176	0.08639	0.03269	0.04032	0.04772	0.02654
-12.012	0.06147	0.08639	0.03202	0.03976	0.04772	0.026
-12.5125	0.06119	0.08639	0.03139	0.03922	0.04772	0.0255
-13.013	0.06092	0.08639	0.0308	0.0387	0.04772	0.02503
-13.5135	0.06064	0.08639	0.03023	0.0382	0.04772	0.02458
-14.014	0.06036	0.08639	0.02969	0.03773	0.04772	0.02416
-14.5145	0.06009	0.08639	0.02919	0.03726	0.04772	0.02376
-15.015	0.05981	0.08639	0.0287	0.03682	0.04772	0.02337
-15.5155	0.05954	0.08639	0.02824	0.03639	0.04772	0.023
-16.016	0.05927	0.08639	0.0278	0.03597	0.04772	0.02265

-16.5165	0.059	0.08639	0.02737	0.03557	0.04772	0.02232
-17.017	0.05873	0.08639	0.02697	0.03518	0.04772	0.022
-17.5175	0.05846	0.08639	0.02658	0.03481	0.04772	0.02169
-18.018	0.0582	0.08639	0.02621	0.03444	0.04772	0.02139
-18.5185	0.05793	0.08639	0.02585	0.03408	0.04772	0.02111
-19.019	0.05767	0.08639	0.0255	0.03374	0.04772	0.02084
-19.5195	0.05741	0.08639	0.02517	0.0334	0.04772	0.02057
-20.02	0.05715	0.08639	0.02485	0.03308	0.04772	0.02032
-20.5205	0.05688	0.08639	0.02454	0.03276	0.04772	0.02007
-21.021	0.05663	0.08639	0.02424	0.03245	0.04772	0.01984
-21.5215	0.05637	0.08639	0.02395	0.03215	0.04772	0.01961
-22.022	0.05611	0.08639	0.02367	0.03185	0.04772	0.01939
-22.5225	0.05586	0.08639	0.0234	0.03157	0.04772	0.01917
-23.023	0.0556	0.08639	0.02314	0.03129	0.04772	0.01896
-23.5235	0.05535	0.08639	0.02289	0.03101	0.04772	0.01876
-24.024	0.0551	0.08639	0.02264	0.03075	0.04772	0.01857
-24.5245	0.05485	0.08639	0.0224	0.03048	0.04772	0.01838
-25.025	0.0546	0.08639	0.02217	0.03023	0.04772	0.01819
-25.5255	0.05435	0.08639	0.02194	0.02998	0.04772	0.01801
-26.026	0.0541	0.08639	0.02172	0.02974	0.04772	0.01784
-26.5265	0.05385	0.08639	0.02151	0.0295	0.04772	0.01767
-27.027	0.05361	0.08639	0.0213	0.02926	0.04772	0.0175
-27.5275	0.05336	0.08639	0.0211	0.02903	0.04772	0.01734
-28.028	0.05312	0.08639	0.0209	0.02881	0.04772	0.01719
-28.5285	0.05288	0.08639	0.02071	0.02859	0.04772	0.01703
-29.029	0.05264	0.08639	0.02052	0.02837	0.04772	0.01688
-29.5295	0.0524	0.08639	0.02034	0.02816	0.04772	0.01674
-30.03	0.05216	0.08639	0.02016	0.02795	0.04772	0.0166
-30.5305	0.05192	0.08639	0.01998	0.02775	0.04772	0.01646
-31.031	0.05169	0.08639	0.01981	0.02755	0.04772	0.01632
-31.5315	0.05145	0.08639	0.01964	0.02735	0.04772	0.01619
-32.032	0.05122	0.08639	0.01948	0.02716	0.04772	0.01606
-32.5325	0.05098	0.08639	0.01932	0.02697	0.04772	0.01593
-33.033	0.05075	0.08639	0.01917	0.02679	0.04772	0.01581
-33.5335	0.05052	0.08639	0.01901	0.0266	0.04772	0.01569
-34.034	0.05029	0.08639	0.01886	0.02642	0.04772	0.01557
-34.5345	0.05006	0.08639	0.01872	0.02625	0.04772	0.01545
-35.035	0.04983	0.08639	0.01857	0.02607	0.04772	0.01534
-35.5355	0.04961	0.08639	0.01843	0.0259	0.04772	0.01523
-36.036	0.04938	0.08639	0.01829	0.02573	0.04772	0.01512
-36.5365	0.04916	0.08639	0.01816	0.02557	0.04772	0.01501
-37.037	0.04893	0.08639	0.01803	0.0254	0.04772	0.01491
-37.5375	0.04871	0.08639	0.0179	0.02524	0.04772	0.0148
-38.038	0.04849	0.08639	0.01777	0.02509	0.04772	0.0147
-38.5385	0.04827	0.08639	0.01764	0.02493	0.04772	0.0146
-39.039	0.04805	0.08639	0.01752	0.02478	0.04772	0.01451
-39.5395	0.04783	0.08639	0.0174	0.02463	0.04772	0.01441
-40.04	0.04761	0.08639	0.01728	0.02448	0.04772	0.01432
-40.5405	0.04739	0.08639	0.01716	0.02433	0.04772	0.01422

-41.041	0.04718	0.08639	0.01705	0.02419	0.04772	0.01413
-41.5415	0.04696	0.08639	0.01694	0.02404	0.04772	0.01404
-42.042	0.04675	0.08639	0.01683	0.0239	0.04772	0.01396
-42.5425	0.04654	0.08639	0.01672	0.02376	0.04772	0.01387
-43.043	0.04632	0.08639	0.01661	0.02363	0.04772	0.01379
-43.5435	0.04611	0.08639	0.01651	0.02349	0.04772	0.0137
-44.044	0.0459	0.08639	0.0164	0.02336	0.04772	0.01362
-44.5445	0.04569	0.08639	0.0163	0.02323	0.04772	0.01354
-45.045	0.04549	0.08639	0.0162	0.0231	0.04772	0.01346
-45.5455	0.04528	0.08639	0.0161	0.02297	0.04772	0.01338
-46.0461	0.04507	0.08639	0.01601	0.02285	0.04772	0.0133
-46.5466	0.04487	0.08639	0.01591	0.02272	0.04772	0.01323
-47.0471	0.04466	0.08639	0.01582	0.0226	0.04772	0.01315
-47.5476	0.04446	0.08639	0.01572	0.02248	0.04772	0.01308
-48.048	0.04426	0.08639	0.01563	0.02236	0.04772	0.01301
-48.5485	0.04406	0.08639	0.01554	0.02224	0.04772	0.01294
-49.049	0.04386	0.08639	0.01545	0.02212	0.04772	0.01287
-49.5495	0.04366	0.08639	0.01537	0.02201	0.04772	0.0128
-50.05	0.04346	0.08639	0.01528	0.02189	0.04772	0.01273
-50.5505	0.04326	0.08639	0.0152	0.02178	0.04772	0.01266
-51.051	0.04306	0.08639	0.01511	0.02167	0.04772	0.0126
-51.5516	0.04287	0.08639	0.01503	0.02156	0.04772	0.01253
-52.0521	0.04267	0.08639	0.01495	0.02145	0.04772	0.01246
-52.5526	0.04248	0.08639	0.01487	0.02134	0.04772	0.0124
-53.0531	0.04228	0.08639	0.01479	0.02124	0.04772	0.01234
-53.5536	0.04209	0.08639	0.01471	0.02113	0.04772	0.01228
-54.0541	0.0419	0.08639	0.01463	0.02103	0.04772	0.01222
-54.5546	0.04171	0.08639	0.01456	0.02092	0.04772	0.01215
-55.055	0.04152	0.08639	0.01448	0.02082	0.04772	0.0121
-55.5556	0.04133	0.08639	0.01441	0.02072	0.04772	0.01204
-56.0561	0.04114	0.08639	0.01434	0.02062	0.04772	0.01198
-56.5566	0.04095	0.08638	0.01426	0.02052	0.04772	0.01192
-57.0571	0.04077	0.08638	0.01419	0.02043	0.04772	0.01186
-57.5576	0.04058	0.08638	0.01412	0.02033	0.04772	0.01181
-58.0581	0.0404	0.08638	0.01405	0.02024	0.04772	0.01175
-58.5586	0.04021	0.08638	0.01398	0.02014	0.04772	0.0117
-59.0591	0.04003	0.08637	0.01392	0.02005	0.04772	0.01164
-59.5596	0.03985	0.08637	0.01385	0.01996	0.04772	0.01159
-60.0601	0.03967	0.08636	0.01378	0.01986	0.04772	0.01154
-60.5606	0.03949	0.08636	0.01372	0.01977	0.04772	0.01149
-61.0611	0.03931	0.08635	0.01365	0.01968	0.04772	0.01144
-61.5616	0.03913	0.08634	0.01359	0.0196	0.04772	0.01138
-62.0621	0.03895	0.08633	0.01353	0.01951	0.04772	0.01133
-62.5626	0.03877	0.08632	0.01346	0.01942	0.04772	0.01128
-63.0631	0.03859	0.08631	0.0134	0.01933	0.04772	0.01124
-63.5636	0.03842	0.08629	0.01334	0.01925	0.04772	0.01119
-64.0641	0.03824	0.08627	0.01328	0.01916	0.04772	0.01114
-64.5646	0.03807	0.08624	0.01322	0.01908	0.04772	0.01109
-65.0651	0.0379	0.08621	0.01316	0.019	0.04772	0.01104

-65.5656	0.03772	0.08617	0.0131	0.01892	0.04772	0.011
-66.0661	0.03755	0.08613	0.01305	0.01884	0.04772	0.01095
-66.5666	0.03738	0.08608	0.01299	0.01875	0.04772	0.01091
-67.0671	0.03721	0.08601	0.01293	0.01868	0.04772	0.01086
-67.5676	0.03704	0.08594	0.01288	0.0186	0.04772	0.01082
-68.0681	0.03687	0.08585	0.01282	0.01852	0.04772	0.01077
-68.5686	0.0367	0.08574	0.01277	0.01844	0.04772	0.01073
-69.0691	0.03654	0.08561	0.01271	0.01836	0.04772	0.01069
-69.5696	0.03637	0.08545	0.01266	0.01829	0.04772	0.01064
-70.0701	0.03621	0.08527	0.01261	0.01821	0.04772	0.0106
-70.5706	0.03604	0.08506	0.01255	0.01814	0.04772	0.01056
-71.0711	0.03588	0.0848	0.0125	0.01806	0.04772	0.01052
-71.5716	0.03571	0.08449	0.01245	0.01799	0.04772	0.01048
-72.0721	0.03555	0.08414	0.0124	0.01792	0.04772	0.01044
-72.5726	0.03539	0.08371	0.01235	0.01784	0.04772	0.0104
-73.0731	0.03523	0.08321	0.0123	0.01777	0.04772	0.01036
-73.5736	0.03507	0.08263	0.01225	0.0177	0.04772	0.01032
-74.0741	0.03491	0.08195	0.0122	0.01763	0.04772	0.01028
-74.5746	0.03475	0.08116	0.01215	0.01756	0.04772	0.01024
-75.0751	0.03459	0.08024	0.0121	0.01749	0.04772	0.0102
-75.5756	0.03443	0.07917	0.01206	0.01742	0.04772	0.01016
-76.0761	0.03428	0.07795	0.01201	0.01736	0.04772	0.01013
-76.5766	0.03412	0.07656	0.01196	0.01729	0.04772	0.01009
-77.0771	0.03396	0.07498	0.01192	0.01722	0.04772	0.01005
-77.5776	0.03381	0.0732	0.01187	0.01716	0.04772	0.01002
-78.0781	0.03366	0.07121	0.01182	0.01709	0.04772	0.00998
-78.5786	0.0335	0.069	0.01178	0.01702	0.04772	0.00994
-79.0791	0.03335	0.06657	0.01174	0.01696	0.04772	0.00991
-79.5796	0.0332	0.06393	0.01169	0.0169	0.04772	0.00987
-80.0801	0.03305	0.06108	0.01165	0.01683	0.04772	0.00984
-80.5806	0.0329	0.05805	0.0116	0.01677	0.04772	0.0098
-81.0811	0.03275	0.05486	0.01156	0.01671	0.04772	0.00977
-81.5816	0.0326	0.05154	0.01152	0.01664	0.04772	0.00974
-82.0821	0.03245	0.04813	0.01148	0.01658	0.04772	0.0097
-82.5826	0.0323	0.04468	0.01143	0.01652	0.04772	0.00967
-83.0831	0.03215	0.04121	0.01139	0.01646	0.04772	0.00964
-83.5836	0.03201	0.03779	0.01135	0.0164	0.04772	0.0096
-84.0841	0.03186	0.03445	0.01131	0.01634	0.04772	0.00957
-84.5846	0.03172	0.03122	0.01127	0.01628	0.04772	0.00954
-85.0851	0.03157	0.02814	0.01123	0.01622	0.04772	0.00951
-85.5856	0.03143	0.02524	0.01119	0.01616	0.04772	0.00948
-86.0861	0.03129	0.02252	0.01115	0.0161	0.04772	0.00944
-86.5866	0.03114	0.02001	0.01111	0.01605	0.04772	0.00941
-87.0871	0.031	0.01771	0.01107	0.01599	0.04772	0.00938
-87.5876	0.03086	0.01561	0.01104	0.01593	0.04772	0.00935
-88.0881	0.03072	0.01371	0.011	0.01587	0.04772	0.00932
-88.5886	0.03058	0.01201	0.01096	0.01582	0.04772	0.00929
-89.0891	0.03044	0.01049	0.01092	0.01576	0.04772	0.00926
-89.5896	0.0303	0.00914	0.01088	0.01571	0.04772	0.00923

-90.0901	0.03016	0.00795	0.01085	0.01565	0.04772	0.0092
-90.5906	0.03003	0.0069	0.01081	0.0156	0.04772	0.00917
-91.0911	0.02989	0.00598	0.01077	0.01554	0.04772	0.00914
-91.5916	0.02975	0.00517	0.01074	0.01549	0.04772	0.00911
-92.0921	0.02962	0.00447	0.0107	0.01544	0.04772	0.00909
-92.5926	0.02948	0.00386	0.01067	0.01538	0.04772	0.00906
-93.0931	0.02935	0.00333	0.01063	0.01533	0.04772	0.00903
-93.5936	0.02922	0.00287	0.0106	0.01528	0.04772	0.009
-94.0941	0.02908	0.00247	0.01056	0.01523	0.04772	0.00897
-94.5946	0.02895	0.00212	0.01053	0.01518	0.04772	0.00895
-95.0951	0.02882	0.00183	0.01049	0.01512	0.04772	0.00892
-95.5956	0.02869	0.00157	0.01046	0.01507	0.04772	0.00889
-96.0961	0.02856	0.00135	0.01043	0.01502	0.04772	0.00887
-96.5966	0.02843	0.00116	0.01039	0.01497	0.04772	0.00884
-97.0971	0.0283	9.95E-04	0.01036	0.01492	0.04772	0.00881
-97.5976	0.02817	8.54E-04	0.01033	0.01487	0.04772	0.00879
-98.0981	0.02804	7.33E-04	0.01029	0.01482	0.04772	0.00876
-98.5986	0.02791	6.29E-04	0.01026	0.01478	0.04772	0.00873
-99.0991	0.02779	5.40E-04	0.01023	0.01473	0.04772	0.00871
-99.5996	0.02766	4.63E-04	0.0102	0.01468	0.04772	0.00868
-100.1	0.02753	3.98E-04	0.01017	0.01463	0.04772	0.00866
-100.601	0.02741	3.41E-04	0.01013	0.01458	0.04772	0.00863
-101.101	0.02728	2.92E-04	0.0101	0.01454	0.04772	0.00861
-101.602	0.02716	2.51E-04	0.01007	0.01449	0.04772	0.00858
-102.102	0.02704	2.15E-04	0.01004	0.01444	0.04772	0.00856
-102.603	0.02691	1.84E-04	0.01001	0.0144	0.04772	0.00853
-103.103	0.02679	1.58E-04	0.00998	0.01435	0.04772	0.00851
-103.604	0.02667	1.36E-04	0.00995	0.0143	0.04772	0.00849
-104.104	0.02655	1.16E-04	0.00992	0.01426	0.04772	0.00846
-104.605	0.02643	9.97E-05	0.00989	0.01421	0.04772	0.00844
-105.105	0.0263	8.54E-05	0.00986	0.01417	0.04772	0.00842
-105.606	0.02619	7.32E-05	0.00983	0.01412	0.04772	0.00839
-106.106	0.02607	6.28E-05	0.0098	0.01408	0.04772	0.00837
-106.607	0.02595	5.38E-05	0.00977	0.01404	0.04772	0.00835
-107.107	0.02583	4.62E-05	0.00975	0.01399	0.04772	0.00832
-107.608	0.02571	3.96E-05	0.00972	0.01395	0.04772	0.0083
-108.108	0.02559	3.39E-05	0.00969	0.01391	0.04772	0.00828
-108.609	0.02548	2.91E-05	0.00966	0.01386	0.04772	0.00825
-109.109	0.02536	2.49E-05	0.00963	0.01382	0.04772	0.00823
-109.61	0.02525	2.14E-05	0.00961	0.01378	0.04772	0.00821
-110.11	0.02513	1.83E-05	0.00958	0.01374	0.04772	0.00819
-110.611	0.02502	1.57E-05	0.00955	0.01369	0.04772	0.00817
-111.111	0.0249	1.35E-05	0.00952	0.01365	0.04772	0.00814
-111.612	0.02479	1.15E-05	0.0095	0.01361	0.04772	0.00812
-112.112	0.02468	9.89E-06	0.00947	0.01357	0.04772	0.0081
-112.613	0.02456	8.48E-06	0.00944	0.01353	0.04772	0.00808
-113.113	0.02445	7.27E-06	0.00941	0.01349	0.04772	0.00806
-113.614	0.02434	6.23E-06	0.00939	0.01345	0.04772	0.00804
-114.114	0.02423	5.34E-06	0.00936	0.01341	0.04772	0.00802

-114.615	0.02412	4.58E-06	0.00934	0.01337	0.04772	0.008
-115.115	0.02401	3.92E-06	0.00931	0.01333	0.04772	0.00797
-115.616	0.0239	3.36E-06	0.00928	0.01329	0.04772	0.00795
-116.116	0.02379	2.88E-06	0.00926	0.01325	0.04772	0.00793
-116.617	0.02368	2.47E-06	0.00923	0.01321	0.04772	0.00791
-117.117	0.02358	2.12E-06	0.00921	0.01317	0.04772	0.00789
-117.618	0.02347	1.82E-06	0.00918	0.01313	0.04772	0.00787
-118.118	0.02336	1.56E-06	0.00916	0.01309	0.04772	0.00785
-118.619	0.02326	1.33E-06	0.00914	0.01305	0.04772	0.00783
-119.119	0.02315	1.14E-06	0.00911	0.01302	0.04772	0.00781
-119.62	0.02304	9.81E-07	0.00908	0.01298	0.04772	0.00779
-120.12	0.02294	8.41E-07	0.00906	0.01294	0.04772	0.00777
-120.621	0.02283	7.21E-07	0.00904	0.0129	0.04772	0.00775
-121.121	0.02273	6.18E-07	0.00901	0.01287	0.04772	0.00774
-121.622	0.02263	5.29E-07	0.00899	0.01283	0.04772	0.00772
-122.122	0.02252	4.54E-07	0.00897	0.01279	0.04772	0.0077
-122.623	0.02242	3.89E-07	0.00894	0.01276	0.04772	0.00768
-123.123	0.02232	3.33E-07	0.00892	0.01272	0.04772	0.00766
-123.624	0.02222	2.86E-07	0.0089	0.01268	0.04772	0.00764
-124.124	0.02212	2.45E-07	0.00887	0.01265	0.04772	0.00762
-124.625	0.02202	2.10E-07	0.00885	0.01261	0.04772	0.0076
-125.125	0.02192	1.80E-07	0.00883	0.01258	0.04771	0.00759
-125.626	0.02182	1.54E-07	0.0088	0.01254	0.04771	0.00757
-126.126	0.02172	1.32E-07	0.00878	0.01251	0.04771	0.00755
-126.627	0.02162	1.13E-07	0.00876	0.01247	0.04771	0.00753
-127.127	0.02152	9.72E-08	0.00874	0.01244	0.0477	0.00751
-127.628	0.02142	8.33E-08	0.00871	0.0124	0.0477	0.0075
-128.128	0.02132	7.14E-08	0.00869	0.01237	0.04769	0.00748
-128.629	0.02123	6.12E-08	0.00867	0.01233	0.04768	0.00746
-129.129	0.02113	5.25E-08	0.00865	0.0123	0.04767	0.00744
-129.63	0.02103	4.50E-08	0.00863	0.01226	0.04766	0.00743
-130.13	0.02094	3.86E-08	0.0086	0.01223	0.04765	0.00741
-130.631	0.02084	3.31E-08	0.00858	0.0122	0.04763	0.00739
-131.131	0.02075	2.83E-08	0.00856	0.01216	0.04761	0.00737
-131.632	0.02065	2.43E-08	0.00854	0.01213	0.04758	0.00736
-132.132	0.02056	2.08E-08	0.00852	0.0121	0.04755	0.00734
-132.633	0.02047	1.79E-08	0.0085	0.01207	0.04751	0.00732
-133.133	0.02037	1.53E-08	0.00848	0.01203	0.04746	0.00731
-133.634	0.02028	1.31E-08	0.00846	0.012	0.04741	0.00729
-134.134	0.02019	1.12E-08	0.00844	0.01197	0.04734	0.00727
-134.635	0.0201	9.64E-09	0.00842	0.01194	0.04725	0.00726
-135.135	0.02	8.26E-09	0.00839	0.0119	0.04715	0.00724
-135.636	0.01991	7.08E-09	0.00837	0.01187	0.04702	0.00722
-136.136	0.01982	6.07E-09	0.00835	0.01184	0.04687	0.00721
-136.637	0.01973	5.20E-09	0.00833	0.01181	0.04669	0.00719
-137.137	0.01964	4.46E-09	0.00831	0.01178	0.04647	0.00718
-137.638	0.01955	3.82E-09	0.00829	0.01175	0.04621	0.00716
-138.138	0.01946	3.28E-09	0.00827	0.01171	0.0459	0.00714
-138.639	0.01937	2.81E-09	0.00825	0.01168	0.04552	0.00713

-139.139	0.01929	2.41E-09	0.00823	0.01165	0.04508	0.00711
-139.64	0.0192	2.07E-09	0.00822	0.01162	0.04455	0.0071
-140.14	0.01911	1.77E-09	0.0082	0.01159	0.04393	0.00708
-140.641	0.01902	1.52E-09	0.00818	0.01156	0.04321	0.00707
-141.141	0.01894	1.30E-09	0.00816	0.01153	0.04237	0.00705
-141.642	0.01885	1.12E-09	0.00814	0.0115	0.04141	0.00703
-142.142	0.01877	9.56E-10	0.00812	0.01147	0.0403	0.00702
-142.643	0.01868	8.19E-10	0.0081	0.01144	0.03905	0.007
-143.143	0.0186	7.02E-10	0.00808	0.01141	0.03764	0.00699
-143.644	0.01851	6.02E-10	0.00806	0.01138	0.03608	0.00697
-144.144	0.01843	5.16E-10	0.00804	0.01135	0.03438	0.00696
-144.645	0.01834	4.42E-10	0.00803	0.01132	0.03254	0.00694
-145.145	0.01826	3.79E-10	0.00801	0.01129	0.03059	0.00693
-145.646	0.01818	3.25E-10	0.00799	0.01127	0.02854	0.00692
-146.146	0.01809	2.79E-10	0.00797	0.01124	0.02642	0.0069
-146.647	0.01801	2.39E-10	0.00795	0.01121	0.02427	0.00689
-147.147	0.01793	2.05E-10	0.00793	0.01118	0.02213	0.00687
-147.648	0.01785	1.76E-10	0.00792	0.01115	0.02002	0.00686
-148.148	0.01777	1.50E-10	0.0079	0.01112	0.01797	0.00684
-148.649	0.01768	1.29E-10	0.00788	0.0111	0.01603	0.00683
-149.149	0.0176	1.11E-10	0.00786	0.01107	0.01419	0.00681
-149.65	0.01752	9.47E-11	0.00785	0.01104	0.01249	0.0068
-150.15	0.01744	8.12E-11	0.00783	0.01101	0.01093	0.00679
-150.651	0.01736	6.96E-11	0.00781	0.01098	0.00952	0.00677
-151.151	0.01729	5.97E-11	0.00779	0.01096	0.00825	0.00676
-151.652	0.01721	5.12E-11	0.00778	0.01093	0.00712	0.00674
-152.152	0.01713	4.39E-11	0.00776	0.0109	0.00612	0.00673
-152.653	0.01705	3.76E-11	0.00774	0.01088	0.00525	0.00672
-153.153	0.01697	3.22E-11	0.00773	0.01085	0.00448	0.0067
-153.654	0.0169	2.76E-11	0.00771	0.01082	0.00382	0.00669
-154.154	0.01682	2.37E-11	0.00769	0.01079	0.00325	0.00668
-154.655	0.01674	2.03E-11	0.00767	0.01077	0.00276	0.00666
-155.155	0.01667	1.74E-11	0.00766	0.01074	0.00234	0.00665
-155.656	0.01659	1.49E-11	0.00764	0.01072	0.00198	0.00664
-156.156	0.01651	1.28E-11	0.00762	0.01069	0.00168	0.00662
-156.657	0.01644	1.10E-11	0.00761	0.01066	0.00142	0.00661
-157.157	0.01636	9.39E-12	0.00759	0.01064	0.0012	0.0066
-157.658	0.01629	8.05E-12	0.00758	0.01061	0.00101	0.00658
-158.158	0.01622	6.90E-12	0.00756	0.01059	8.51E-04	0.00657
-158.659	0.01614	5.92E-12	0.00754	0.01056	7.17E-04	0.00656
-159.159	0.01607	5.07E-12	0.00753	0.01053	6.04E-04	0.00654
-159.66	0.016	4.35E-12	0.00751	0.01051	5.09E-04	0.00653
-160.16	0.01592	3.73E-12	0.00749	0.01048	4.28E-04	0.00652
-160.661	0.01585	3.19E-12	0.00748	0.01046	3.60E-04	0.00651
-161.161	0.01578	2.74E-12	0.00746	0.01043	3.03E-04	0.00649
-161.662	0.01571	2.35E-12	0.00745	0.01041	2.55E-04	0.00648
-162.162	0.01563	2.01E-12	0.00743	0.01038	2.15E-04	0.00647
-162.663	0.01556	1.73E-12	0.00742	0.01036	1.81E-04	0.00645
-163.163	0.01549	1.48E-12	0.0074	0.01033	1.52E-04	0.00644

-163.664	0.01542	1.27E-12	0.00739	0.01031	1.28E-04	0.00643
-164.164	0.01535	1.09E-12	0.00737	0.01028	1.07E-04	0.00642
-164.665	0.01528	9.31E-13	0.00736	0.01026	9.03E-05	0.00641
-165.165	0.01521	7.98E-13	0.00734	0.01024	7.59E-05	0.00639
-165.666	0.01514	6.84E-13	0.00732	0.01021	6.38E-05	0.00638
-166.166	0.01507	5.87E-13	0.00731	0.01019	5.36E-05	0.00637
-166.667	0.01501	5.03E-13	0.00729	0.01016	4.51E-05	0.00636
-167.167	0.01494	4.31E-13	0.00728	0.01014	3.79E-05	0.00634
-167.668	0.01487	3.69E-13	0.00726	0.01012	3.19E-05	0.00633
-168.168	0.0148	3.17E-13	0.00725	0.01009	2.68E-05	0.00632
-168.669	0.01473	2.72E-13	0.00724	0.01007	2.25E-05	0.00631
-169.169	0.01467	2.33E-13	0.00722	0.01005	1.89E-05	0.0063
-169.67	0.0146	2.00E-13	0.0072	0.01002	1.59E-05	0.00628
-170.17	0.01453	1.71E-13	0.00719	0.01	1.34E-05	0.00627
-170.671	0.01447	1.47E-13	0.00718	0.00998	1.12E-05	0.00626
-171.171	0.0144	1.26E-13	0.00716	0.00995	9.45E-06	0.00625
-171.672	0.01434	1.08E-13	0.00715	0.00993	7.94E-06	0.00624
-172.172	0.01427	9.23E-14	0.00713	0.00991	6.67E-06	0.00623
-172.673	0.01421	7.91E-14	0.00712	0.00988	5.61E-06	0.00621
-173.173	0.01414	6.78E-14	0.00711	0.00986	4.72E-06	0.0062
-173.674	0.01408	5.82E-14	0.00709	0.00984	3.96E-06	0.00619
-174.174	0.01401	4.99E-14	0.00708	0.00982	3.33E-06	0.00618
-174.675	0.01395	4.27E-14	0.00706	0.00979	2.80E-06	0.00617
-175.175	0.01389	3.66E-14	0.00705	0.00977	2.35E-06	0.00616
-175.676	0.01382	3.14E-14	0.00703	0.00975	1.98E-06	0.00615
-176.176	0.01376	2.69E-14	0.00702	0.00973	1.66E-06	0.00613
-176.677	0.0137	2.31E-14	0.00701	0.00971	1.40E-06	0.00612
-177.177	0.01363	1.98E-14	0.00699	0.00968	1.18E-06	0.00611
-177.678	0.01357	1.70E-14	0.00698	0.00966	9.87E-07	0.0061
-178.178	0.01351	1.45E-14	0.00697	0.00964	8.30E-07	0.00609
-178.679	0.01345	1.25E-14	0.00695	0.00962	6.97E-07	0.00608
-179.179	0.01339	1.07E-14	0.00694	0.0096	5.86E-07	0.00607
-179.68	0.01333	9.15E-15	0.00692	0.00958	4.93E-07	0.00606
-180.18	0.01327	7.85E-15	0.00691	0.00955	4.14E-07	0.00605
-180.681	0.01321	6.73E-15	0.0069	0.00953	3.48E-07	0.00604
-181.181	0.01315	5.77E-15	0.00688	0.00951	2.93E-07	0.00603
-181.682	0.01309	4.94E-15	0.00687	0.00949	2.46E-07	0.00602
-182.182	0.01303	4.24E-15	0.00686	0.00947	2.07E-07	0.006
-182.683	0.01297	3.63E-15	0.00685	0.00945	1.74E-07	0.00599
-183.183	0.01291	3.11E-15	0.00683	0.00943	1.46E-07	0.00598
-183.684	0.01285	2.67E-15	0.00682	0.00941	1.23E-07	0.00597
-184.184	0.01279	2.29E-15	0.00681	0.00938	1.03E-07	0.00596
-184.685	0.01273	1.96E-15	0.00679	0.00937	8.67E-08	0.00595
-185.185	0.01267	1.68E-15	0.00678	0.00934	7.29E-08	0.00594
-185.686	0.01262	1.44E-15	0.00677	0.00932	6.13E-08	0.00593
-186.186	0.01256	1.24E-15	0.00675	0.0093	5.15E-08	0.00592
-186.687	0.0125	1.06E-15	0.00674	0.00928	4.33E-08	0.00591
-187.187	0.01244	9.07E-16	0.00673	0.00926	3.64E-08	0.0059
-187.688	0.01239	7.78E-16	0.00672	0.00924	3.06E-08	0.00589

-188.188	0.01233	6.67E-16	0.00671	0.00922	2.57E-08	0.00588
-188.689	0.01228	5.72E-16	0.00669	0.0092	2.16E-08	0.00587
-189.189	0.01222	4.90E-16	0.00668	0.00918	1.82E-08	0.00586
-189.69	0.01216	4.20E-16	0.00667	0.00916	1.53E-08	0.00585
-190.19	0.01211	3.60E-16	0.00666	0.00914	1.28E-08	0.00584
-190.691	0.01205	3.09E-16	0.00664	0.00912	1.08E-08	0.00583
-191.191	0.012	2.65E-16	0.00663	0.0091	9.06E-09	0.00582
-191.692	0.01194	2.27E-16	0.00662	0.00908	7.62E-09	0.00581
-192.192	0.01189	1.94E-16	0.00661	0.00906	6.40E-09	0.0058
-192.693	0.01184	1.67E-16	0.00659	0.00904	5.38E-09	0.00579
-193.193	0.01178	1.43E-16	0.00658	0.00903	4.52E-09	0.00578
-193.694	0.01173	1.22E-16	0.00657	0.00901	3.80E-09	0.00577
-194.194	0.01167	1.05E-16	0.00656	0.00899	3.20E-09	0.00576
-194.695	0.01162	9.00E-17	0.00655	0.00897	2.69E-09	0.00575
-195.195	0.01157	7.71E-17	0.00653	0.00895	2.26E-09	0.00574
-195.696	0.01152	6.61E-17	0.00652	0.00893	1.90E-09	0.00573
-196.196	0.01146	5.67E-17	0.00651	0.00891	1.60E-09	0.00572
-196.697	0.01141	4.86E-17	0.0065	0.00889	1.34E-09	0.00571
-197.197	0.01136	4.16E-17	0.00649	0.00887	1.13E-09	0.00571
-197.698	0.01131	3.57E-17	0.00647	0.00885	9.47E-10	0.0057
-198.198	0.01126	3.06E-17	0.00646	0.00884	7.96E-10	0.00569
-198.699	0.0112	2.62E-17	0.00645	0.00882	6.69E-10	0.00568
-199.199	0.01115	2.25E-17	0.00644	0.0088	5.62E-10	0.00567
-199.7	0.0111	1.93E-17	0.00643	0.00878	4.73E-10	0.00566
-200.2	0.01105	1.65E-17	0.00642	0.00876	3.97E-10	0.00565
-200.701	0.011	1.42E-17	0.00641	0.00874	3.34E-10	0.00564
-201.201	0.01095	1.21E-17	0.00639	0.00873	2.81E-10	0.00563
-201.702	0.0109	1.04E-17	0.00638	0.00871	2.36E-10	0.00562
-202.202	0.01085	8.92E-18	0.00637	0.00869	1.98E-10	0.00561
-202.703	0.0108	7.65E-18	0.00636	0.00867	1.67E-10	0.0056
-203.203	0.01075	6.56E-18	0.00635	0.00865	1.40E-10	0.00559
-203.704	0.0107	5.62E-18	0.00634	0.00863	1.18E-10	0.00558
-204.204	0.01066	4.82E-18	0.00633	0.00862	9.89E-11	0.00558
-204.705	0.01061	4.13E-18	0.00632	0.0086	8.32E-11	0.00557
-205.205	0.01056	3.54E-18	0.00631	0.00858	6.99E-11	0.00556
-205.706	0.01051	3.04E-18	0.0063	0.00856	5.88E-11	0.00555
-206.206	0.01046	2.61E-18	0.00628	0.00855	4.94E-11	0.00554
-206.707	0.01042	2.24E-18	0.00627	0.00853	4.15E-11	0.00553
-207.207	0.01037	1.92E-18	0.00626	0.00851	3.49E-11	0.00552
-207.708	0.01032	1.65E-18	0.00625	0.00849	2.93E-11	0.00551
-208.208	0.01027	1.41E-18	0.00624	0.00848	2.47E-11	0.00551
-208.709	0.01023	1.21E-18	0.00623	0.00846	2.07E-11	0.0055
-209.209	0.01018	1.04E-18	0.00622	0.00844	1.74E-11	0.00549
-209.71	0.01013	8.96E-19	0.00621	0.00842	1.46E-11	0.00548
-210.21	0.01009	7.70E-19	0.0062	0.00841	1.23E-11	0.00547
-210.711	0.01004	6.64E-19	0.00619	0.00839	1.03E-11	0.00546
-211.211	0.01	5.71E-19	0.00618	0.00837	8.69E-12	0.00545
-211.712	0.00995	4.92E-19	0.00617	0.00836	7.30E-12	0.00544
-212.212	0.00991	4.24E-19	0.00615	0.00834	6.14E-12	0.00544

-212.713	0.00986	3.66E-19	0.00615	0.00832	5.16E-12	0.00543
-213.213	0.00982	3.18E-19	0.00613	0.0083	4.34E-12	0.00542
-213.714	0.00977	2.75E-19	0.00612	0.00829	3.65E-12	0.00541
-214.214	0.00973	2.41E-19	0.00611	0.00827	3.06E-12	0.0054
-214.715	0.00968	2.09E-19	0.0061	0.00826	2.58E-12	0.00539
-215.215	0.00964	1.84E-19	0.00609	0.00824	2.17E-12	0.00539
-215.716	0.00959	1.60E-19	0.00608	0.00822	1.82E-12	0.00538
-216.216	0.00955	1.41E-19	0.00607	0.00821	1.53E-12	0.00537
-216.717	0.00951	1.25E-19	0.00606	0.00819	1.29E-12	0.00536
-217.217	0.00946	1.12E-19	0.00605	0.00817	1.08E-12	0.00535
-217.718	0.00942	9.95E-20	0.00604	0.00816	9.08E-13	0.00534
-218.218	0.00938	8.95E-20	0.00603	0.00814	7.63E-13	0.00534
-218.719	0.00933	8.25E-20	0.00602	0.00813	6.42E-13	0.00533
-219.219	0.00929	7.44E-20	0.00601	0.00811	5.39E-13	0.00532
-219.72	0.00925	6.96E-20	0.006	0.00809	4.53E-13	0.00531
-220.22	0.00921	6.14E-20	0.00599	0.00808	3.81E-13	0.0053
-220.721	0.00917	5.98E-20	0.00598	0.00806	3.20E-13	0.0053
-221.221	0.00912	5.23E-20	0.00597	0.00805	2.69E-13	0.00529
-221.722	0.00908	5.26E-20	0.00596	0.00803	2.26E-13	0.00528
-222.222	0.00904	4.79E-20	0.00595	0.00801	1.90E-13	0.00527
-222.723	0.009	4.84E-20	0.00594	0.008	1.60E-13	0.00526
-223.223	0.00896	4.47E-20	0.00593	0.00798	1.34E-13	0.00526
-223.724	0.00892	4.43E-20	0.00592	0.00797	1.13E-13	0.00525
-224.224	0.00888	4.19E-20	0.00591	0.00795	9.49E-14	0.00524
-224.725	0.00884	4.17E-20	0.0059	0.00793	7.98E-14	0.00523
-225.225	0.0088	4.28E-20	0.0059	0.00792	6.70E-14	0.00522
-225.726	0.00876	4.05E-20	0.00588	0.0079	5.63E-14	0.00522
-226.226	0.00872	4.02E-20	0.00588	0.00789	4.74E-14	0.00521
-226.727	0.00868	3.64E-20	0.00587	0.00787	3.98E-14	0.0052
-227.227	0.00864	3.83E-20	0.00586	0.00786	3.35E-14	0.00519
-227.728	0.0086	3.47E-20	0.00585	0.00784	2.81E-14	0.00519
-228.228	0.00856	3.68E-20	0.00584	0.00783	2.36E-14	0.00518
-228.729	0.00852	3.57E-20	0.00583	0.00781	1.99E-14	0.00517
-229.229	0.00848	3.61E-20	0.00582	0.0078	1.67E-14	0.00516
-229.73	0.00844	3.42E-20	0.00581	0.00778	1.40E-14	0.00515
-230.23	0.0084	3.30E-20	0.0058	0.00777	1.18E-14	0.00515
-230.731	0.00837	3.20E-20	0.00579	0.00775	9.92E-15	0.00514
-231.231	0.00833	2.91E-20	0.00578	0.00774	8.33E-15	0.00513
-231.732	0.00829	3.14E-20	0.00577	0.00772	7.01E-15	0.00513
-232.232	0.00825	3.06E-20	0.00576	0.00771	5.89E-15	0.00512
-232.733	0.00822	3.28E-20	0.00575	0.00769	4.95E-15	0.00511
-233.233	0.00818	3.11E-20	0.00575	0.00768	4.16E-15	0.0051
-233.734	0.00814	3.19E-20	0.00574	0.00766	3.50E-15	0.0051
-234.234	0.0081	2.89E-20	0.00573	0.00765	2.94E-15	0.00509
-234.735	0.00807	2.78E-20	0.00572	0.00764	2.47E-15	0.00508
-235.235	0.00803	2.80E-20	0.00571	0.00762	2.08E-15	0.00507
-235.736	0.00799	2.57E-20	0.0057	0.00761	1.75E-15	0.00507
-236.236	0.00796	2.89E-20	0.00569	0.00759	1.47E-15	0.00506
-236.737	0.00792	2.66E-20	0.00568	0.00758	1.23E-15	0.00505

-237.237	0.00788	2.96E-20	0.00567	0.00756	1.04E-15	0.00505
-237.738	0.00785	2.64E-20	0.00566	0.00755	8.71E-16	0.00504
-238.238	0.00781	2.85E-20	0.00566	0.00754	7.32E-16	0.00503
-238.739	0.00778	2.44E-20	0.00565	0.00752	6.15E-16	0.00502
-239.239	0.00774	2.49E-20	0.00564	0.00751	5.17E-16	0.00502
-239.74	0.00771	2.36E-20	0.00563	0.00749	4.35E-16	0.00501
-240.24	0.00767	2.30E-20	0.00562	0.00748	3.65E-16	0.005
-240.741	0.00764	2.45E-20	0.00561	0.00747	3.07E-16	0.005
-241.241	0.0076	2.43E-20	0.0056	0.00745	2.58E-16	0.00499
-241.742	0.00757	2.54E-20	0.0056	0.00744	2.17E-16	0.00498
-242.242	0.00753	2.34E-20	0.00559	0.00742	1.82E-16	0.00497
-242.743	0.0075	2.31E-20	0.00558	0.00741	1.53E-16	0.00497
-243.243	0.00747	2.05E-20	0.00557	0.00739	1.29E-16	0.00496
-243.744	0.00743	1.93E-20	0.00556	0.00738	1.08E-16	0.00495
-244.244	0.0074	2.05E-20	0.00555	0.00737	9.10E-17	0.00495
-244.745	0.00736	1.92E-20	0.00554	0.00735	7.65E-17	0.00494
-245.245	0.00733	2.15E-20	0.00554	0.00734	6.43E-17	0.00493
-245.746	0.0073	1.97E-20	0.00553	0.00733	5.41E-17	0.00492
-246.246	0.00726	2.07E-20	0.00552	0.00731	4.55E-17	0.00492
-246.747	0.00723	1.84E-20	0.00551	0.0073	3.82E-17	0.00491
-247.247	0.0072	1.79E-20	0.0055	0.00729	3.21E-17	0.0049
-247.748	0.00716	1.65E-20	0.00549	0.00727	2.70E-17	0.0049
-248.248	0.00713	1.57E-20	0.00549	0.00726	2.27E-17	0.00489
-248.749	0.0071	1.74E-20	0.00548	0.00725	1.91E-17	0.00488
-249.249	0.00707	1.64E-20	0.00547	0.00723	1.61E-17	0.00488
-249.75	0.00703	1.72E-20	0.00546	0.00722	1.35E-17	0.00487
-250.25	0.007	1.59E-20	0.00545	0.00721	1.14E-17	0.00486
-250.751	0.00697	1.56E-20	0.00544	0.00719	9.55E-18	0.00486
-251.251	0.00694	1.44E-20	0.00544	0.00718	8.03E-18	0.00485
-251.752	0.00691	1.29E-20	0.00543	0.00717	6.76E-18	0.00484
-252.252	0.00688	1.40E-20	0.00542	0.00715	5.69E-18	0.00484
-252.753	0.00685	1.34E-20	0.00541	0.00714	4.79E-18	0.00483
-253.253	0.00681	1.41E-20	0.0054	0.00713	4.03E-18	0.00483
-253.754	0.00678	1.27E-20	0.00539	0.00712	3.39E-18	0.00482
-254.254	0.00675	1.26E-20	0.00539	0.0071	2.86E-18	0.00481
-254.755	0.00672	1.19E-20	0.00538	0.00709	2.41E-18	0.00481
-255.255	0.00669	1.08E-20	0.00537	0.00708	2.03E-18	0.0048
-255.756	0.00666	1.14E-20	0.00536	0.00707	1.71E-18	0.00479
-256.256	0.00663	1.06E-20	0.00536	0.00705	1.44E-18	0.00479
-256.757	0.0066	1.11E-20	0.00535	0.00704	1.22E-18	0.00478
-257.257	0.00657	1.04E-20	0.00534	0.00703	1.03E-18	0.00477
-257.758	0.00654	1.03E-20	0.00533	0.00701	8.69E-19	0.00477
-258.258	0.00651	9.45E-21	0.00532	0.007	7.37E-19	0.00476
-258.759	0.00648	8.46E-21	0.00532	0.00699	6.26E-19	0.00475
-259.259	0.00645	9.27E-21	0.00531	0.00698	5.32E-19	0.00475
-259.76	0.00642	8.36E-21	0.0053	0.00696	4.52E-19	0.00474
-260.26	0.00639	8.74E-21	0.00529	0.00695	3.83E-19	0.00473
-260.761	0.00636	7.76E-21	0.00529	0.00694	3.24E-19	0.00473
-261.261	0.00633	7.64E-21	0.00528	0.00693	2.75E-19	0.00472

-261.762	0.0063	7.03E-21	0.00527	0.00692	2.34E-19	0.00472
-262.262	0.00628	6.42E-21	0.00526	0.0069	2.00E-19	0.00471
-262.763	0.00625	6.56E-21	0.00526	0.00689	1.74E-19	0.0047
-263.263	0.00622	5.82E-21	0.00525	0.00688	1.54E-19	0.0047
-263.764	0.00619	6.12E-21	0.00524	0.00687	1.36E-19	0.00469
-264.264	0.00616	5.44E-21	0.00523	0.00685	1.19E-19	0.00468
-264.765	0.00613	5.81E-21	0.00522	0.00684	1.02E-19	0.00468
-265.265	0.00611	5.03E-21	0.00522	0.00683	8.60E-20	0.00467
-265.766	0.00608	4.97E-21	0.00521	0.00682	7.40E-20	0.00467
-266.266	0.00605	4.29E-21	0.0052	0.00681	6.34E-20	0.00466
-266.767	0.00602	4.05E-21	0.0052	0.00679	5.48E-20	0.00466
-267.267	0.006	3.67E-21	0.00519	0.00678	4.86E-20	0.00465
-267.768	0.00597	3.66E-21	0.00518	0.00677	4.47E-20	0.00464
-268.268	0.00594	3.50E-21	0.00517	0.00676	4.19E-20	0.00464
-268.769	0.00592	3.52E-21	0.00517	0.00675	3.86E-20	0.00463
-269.269	0.00589	3.35E-21	0.00516	0.00673	3.47E-20	0.00462
-269.77	0.00586	3.22E-21	0.00515	0.00672	3.15E-20	0.00462
-270.27	0.00583	3.11E-21	0.00514	0.00671	2.84E-20	0.00461
-270.771	0.00581	2.78E-21	0.00514	0.0067	2.48E-20	0.00461
-271.271	0.00578	2.63E-21	0.00513	0.00669	2.15E-20	0.0046
-271.772	0.00575	2.25E-21	0.00512	0.00668	1.95E-20	0.0046
-272.272	0.00573	2.21E-21	0.00511	0.00666	2.08E-20	0.00459
-272.773	0.0057	2.15E-21	0.00511	0.00665	2.16E-20	0.00458
-273.273	0.00568	2.07E-21	0.0051	0.00664	2.01E-20	0.00458
-273.774	0.00565	2.10E-21	0.00509	0.00663	1.81E-20	0.00457
-274.274	0.00562	1.93E-21	0.00509	0.00662	1.61E-20	0.00456
-274.775	0.0056	1.96E-21	0.00508	0.00661	1.42E-20	0.00456
-275.275	0.00557	1.75E-21	0.00507	0.0066	1.34E-20	0.00455
-275.776	0.00555	1.64E-21	0.00507	0.00658	1.21E-20	0.00455
-276.276	0.00552	1.40E-21	0.00506	0.00657	1.15E-20	0.00454
-276.777	0.0055	1.24E-21	0.00505	0.00656	1.40E-20	0.00454
-277.277	0.00547	1.35E-21	0.00504	0.00655	1.53E-20	0.00453
-277.778	0.00545	1.25E-21	0.00504	0.00654	1.49E-20	0.00453
-278.278	0.00542	1.35E-21	0.00503	0.00653	1.47E-20	0.00452
-278.779	0.0054	1.22E-21	0.00502	0.00652	1.23E-20	0.00451
-279.279	0.00537	1.26E-21	0.00502	0.00651	1.13E-20	0.00451
-279.78	0.00535	1.07E-21	0.00501	0.00649	1.04E-20	0.0045
-280.28	0.00532	9.99E-22	0.005	0.00648	9.10E-21	0.0045
-280.781	0.0053	8.57E-22	0.005	0.00647	8.87E-21	0.00449
-281.281	0.00528	8.07E-22	0.00499	0.00646	1.19E-20	0.00449
-281.782	0.00525	8.55E-22	0.00498	0.00645	1.55E-20	0.00448
-282.282	0.00523	7.92E-22	0.00497	0.00644	1.40E-20	0.00447
-282.783	0.00521	8.11E-22	0.00497	0.00643	1.15E-20	0.00447
-283.283	0.00518	6.93E-22	0.00496	0.00642	1.06E-20	0.00446
-283.784	0.00516	6.62E-22	0.00495	0.00641	9.41E-21	0.00446
-284.284	0.00513	6.05E-22	0.00495	0.0064	8.39E-21	0.00445
-284.785	0.00511	5.72E-22	0.00494	0.00639	7.94E-21	0.00445
-285.285	0.00509	5.98E-22	0.00493	0.00637	8.01E-21	0.00444
-285.786	0.00506	5.20E-22	0.00493	0.00636	8.11E-21	0.00444

-286.286	0.00504	5.59E-22	0.00492	0.00635	8.94E-21	0.00443
-286.787	0.00502	4.50E-22	0.00491	0.00634	9.13E-21	0.00443
-287.287	0.005	4.47E-22	0.00491	0.00633	8.08E-21	0.00442
-287.788	0.00497	4.04E-22	0.0049	0.00632	7.71E-21	0.00441
-288.288	0.00495	3.79E-22	0.00489	0.00631	7.14E-21	0.00441
-288.789	0.00493	3.91E-22	0.00489	0.0063	5.92E-21	0.0044
-289.289	0.0049	3.47E-22	0.00488	0.00629	5.22E-21	0.0044
-289.79	0.00488	3.59E-22	0.00487	0.00628	5.01E-21	0.00439
-290.29	0.00486	3.24E-22	0.00487	0.00627	5.40E-21	0.00439
-290.791	0.00484	3.31E-22	0.00486	0.00626	5.38E-21	0.00438
-291.291	0.00482	2.72E-22	0.00485	0.00625	4.60E-21	0.00438
-291.792	0.00479	2.62E-22	0.00485	0.00624	4.13E-21	0.00437
-292.292	0.00477	2.15E-22	0.00484	0.00623	4.15E-21	0.00437
-292.793	0.00475	2.11E-22	0.00483	0.00622	3.80E-21	0.00436
-293.293	0.00473	1.82E-22	0.00483	0.00621	3.38E-21	0.00436
-293.794	0.00471	1.71E-22	0.00482	0.0062	2.76E-21	0.00435
-294.294	0.00469	1.63E-22	0.00482	0.00619	2.51E-21	0.00434
-294.795	0.00466	1.53E-22	0.00481	0.00617	2.15E-21	0.00434
-295.295	0.00464	1.56E-22	0.0048	0.00617	1.81E-21	0.00433
-295.796	0.00462	1.44E-22	0.0048	0.00615	1.81E-21	0.00433
-296.296	0.0046	1.42E-22	0.00479	0.00615	1.93E-21	0.00432
-296.797	0.00458	1.24E-22	0.00478	0.00613	1.78E-21	0.00432
-297.297	0.00456	1.16E-22	0.00478	0.00612	1.52E-21	0.00431
-297.798	0.00454	9.51E-23	0.00477	0.00611	1.33E-21	0.00431
-298.298	0.00452	8.97E-23	0.00477	0.0061	1.08E-21	0.0043
-298.799	0.0045	8.05E-23	0.00476	0.00609	8.84E-22	0.0043
-299.299	0.00448	7.69E-23	0.00475	0.00608	7.62E-22	0.00429
-299.8	0.00446	8.09E-23	0.00475	0.00607	8.72E-22	0.00429
-300.3	0.00444	7.27E-23	0.00474	0.00607	9.35E-22	0.00428
-300.801	0.00442	7.54E-23	0.00473	0.00605	7.89E-22	0.00428
-301.301	0.0044	6.76E-23	0.00473	0.00605	6.90E-22	0.00427
-301.802	0.00438	6.74E-23	0.00472	0.00604	6.55E-22	0.00427
-302.302	0.00436	5.75E-23	0.00472	0.00603	5.56E-22	0.00426
-302.803	0.00434	5.13E-23	0.00471	0.00602	5.02E-22	0.00426
-303.303	0.00432	4.20E-23	0.0047	0.006	4.36E-22	0.00425
-303.804	0.0043	3.93E-23	0.0047	0.006	3.98E-22	0.00425
-304.304	0.00428	4.07E-23	0.00469	0.00599	3.96E-22	0.00424
-304.805	0.00426	3.67E-23	0.00468	0.00598	4.11E-22	0.00424
-305.305	0.00424	3.78E-23	0.00468	0.00597	4.53E-22	0.00423
-305.806	0.00422	3.37E-23	0.00467	0.00596	4.10E-22	0.00423
-306.306	0.0042	3.38E-23	0.00467	0.00595	3.61E-22	0.00422
-306.807	0.00418	2.84E-23	0.00466	0.00594	3.24E-22	0.00422
-307.307	0.00416	2.66E-23	0.00466	0.00593	2.74E-22	0.00421
-307.808	0.00414	2.34E-23	0.00465	0.00592	2.24E-22	0.00421
-308.308	0.00412	2.11E-23	0.00464	0.00591	1.97E-22	0.0042
-308.809	0.00411	2.24E-23	0.00464	0.0059	1.98E-22	0.0042
-309.309	0.00409	1.96E-23	0.00463	0.00589	2.00E-22	0.00419
-309.81	0.00407	2.05E-23	0.00462	0.00588	2.11E-22	0.00419
-310.31	0.00405	1.68E-23	0.00462	0.00587	2.00E-22	0.00418

-310.811	0.00403	1.63E-23	0.00461	0.00586	1.82E-22	0.00418
-311.311	0.00401	1.40E-23	0.00461	0.00585	1.62E-22	0.00417
-311.812	0.004	1.31E-23	0.0046	0.00584	1.38E-22	0.00417
-312.312	0.00398	1.37E-23	0.0046	0.00583	1.18E-22	0.00416
-312.813	0.00396	1.19E-23	0.00459	0.00582	8.73E-23	0.00416
-313.313	0.00394	1.29E-23	0.00458	0.00581	7.18E-23	0.00415
-313.814	0.00392	1.08E-23	0.00458	0.00581	9.41E-23	0.00415
-314.314	0.0039	1.06E-23	0.00457	0.0058	1.11E-22	0.00415
-314.815	0.00389	7.94E-24	0.00457	0.00579	1.01E-22	0.00414
-315.315	0.00387	7.56E-24	0.00456	0.00578	7.76E-23	0.00413
-315.816	0.00385	7.67E-24	0.00456	0.00577	7.36E-23	0.00413
-316.316	0.00383	6.69E-24	0.00455	0.00576	6.54E-23	0.00413
-316.817	0.00382	7.05E-24	0.00454	0.00575	5.48E-23	0.00412
-317.317	0.0038	6.18E-24	0.00454	0.00574	4.54E-23	0.00412
-317.818	0.00378	6.27E-24	0.00453	0.00573	4.46E-23	0.00411
-318.318	0.00376	5.28E-24	0.00453	0.00572	5.33E-23	0.00411
-318.819	0.00375	5.02E-24	0.00452	0.00571	5.49E-23	0.0041
-319.319	0.00373	4.01E-24	0.00451	0.00571	4.99E-23	0.0041
-319.82	0.00371	3.91E-24	0.00451	0.0057	4.09E-23	0.00409
-320.32	0.0037	3.34E-24	0.0045	0.00569	3.92E-23	0.00409
-320.821	0.00368	3.14E-24	0.0045	0.00568	3.58E-23	0.00408
-321.321	0.00366	2.68E-24	0.00449	0.00567	2.98E-23	0.00408
-321.822	0.00365	2.51E-24	0.00449	0.00566	2.43E-23	0.00407
-322.322	0.00363	2.58E-24	0.00448	0.00565	2.43E-23	0.00407
-322.823	0.00361	2.29E-24	0.00448	0.00564	2.66E-23	0.00407
-323.323	0.0036	2.33E-24	0.00447	0.00563	2.47E-23	0.00406
-323.824	0.00358	2.03E-24	0.00447	0.00563	2.00E-23	0.00406
-324.324	0.00356	1.96E-24	0.00446	0.00562	1.67E-23	0.00405
-324.825	0.00355	1.51E-24	0.00445	0.00561	1.70E-23	0.00405
-325.325	0.00353	1.37E-24	0.00445	0.0056	1.53E-23	0.00404
-325.826	0.00351	1.38E-24	0.00444	0.00559	1.35E-23	0.00404
-326.326	0.0035	1.23E-24	0.00444	0.00558	1.14E-23	0.00403
-326.827	0.00348	1.33E-24	0.00443	0.00557	1.18E-23	0.00403
-327.327	0.00347	1.16E-24	0.00443	0.00556	1.02E-23	0.00402
-327.828	0.00345	1.20E-24	0.00442	0.00556	7.74E-24	0.00402
-328.328	0.00344	9.95E-25	0.00442	0.00555	6.34E-24	0.00402
-328.829	0.00342	9.49E-25	0.00441	0.00554	6.50E-24	0.00401
-329.329	0.00341	7.04E-25	0.00441	0.00553	5.91E-24	0.00401
-329.83	0.00339	6.48E-25	0.0044	0.00552	5.32E-24	0.004
-330.33	0.00337	6.76E-25	0.00439	0.00551	4.40E-24	0.004
-330.831	0.00336	6.01E-25	0.00439	0.00551	4.00E-24	0.00399
-331.331	0.00334	6.18E-25	0.00438	0.0055	3.21E-24	0.00399
-331.832	0.00333	5.43E-25	0.00438	0.00549	2.39E-24	0.00398
-332.332	0.00331	5.56E-25	0.00437	0.00548	2.03E-24	0.00398
-332.833	0.0033	4.54E-25	0.00437	0.00547	1.83E-24	0.00398
-333.333	0.00328	4.26E-25	0.00436	0.00546	1.70E-24	0.00397
-333.834	0.00327	3.44E-25	0.00436	0.00545	1.84E-24	0.00397
-334.334	0.00325	3.21E-25	0.00435	0.00545	1.68E-24	0.00396
-334.835	0.00324	3.44E-25	0.00435	0.00544	1.57E-24	0.00396

-335.335	0.00322	2.97E-25	0.00434	0.00543	1.25E-24	0.00396
-335.836	0.00321	3.22E-25	0.00434	0.00542	1.09E-24	0.00395
-336.336	0.00319	2.76E-25	0.00433	0.00541	1.02E-24	0.00395
-336.837	0.00318	2.79E-25	0.00433	0.0054	7.43E-25	0.00394
-337.337	0.00316	2.24E-25	0.00432	0.0054	7.71E-25	0.00394
-337.838	0.00315	2.05E-25	0.00432	0.00539	1.22E-24	0.00393
-338.338	0.00314	1.59E-25	0.00431	0.00538	1.59E-24	0.00393
-338.839	0.00312	1.41E-25	0.0043	0.00537	1.71E-24	0.00392
-339.339	0.00311	1.38E-25	0.0043	0.00536	1.40E-24	0.00392
-339.84	0.00309	1.26E-25	0.0043	0.00536	1.20E-24	0.00392
-340.34	0.00308	1.12E-25	0.00429	0.00535	1.08E-24	0.00391
-340.841	0.00307	9.96E-26	0.00428	0.00534	9.25E-25	0.00391
-341.341	0.00305	9.40E-26	0.00428	0.00533	8.44E-25	0.0039
-341.842	0.00304	7.69E-26	0.00427	0.00532	8.36E-25	0.0039
-342.342	0.00302	7.03E-26	0.00427	0.00532	8.71E-25	0.0039
-342.843	0.00301	6.19E-26	0.00426	0.00531	9.57E-25	0.00389
-343.343	0.003	5.91E-26	0.00426	0.0053	1.02E-24	0.00389
-343.844	0.00298	5.32E-26	0.00425	0.00529	9.14E-25	0.00388
-344.344	0.00297	5.53E-26	0.00425	0.00528	7.84E-25	0.00388
-344.845	0.00296	4.94E-26	0.00424	0.00528	7.04E-25	0.00388
-345.345	0.00294	4.96E-26	0.00424	0.00527	6.20E-25	0.00387
-345.846	0.00293	4.00E-26	0.00423	0.00526	5.52E-25	0.00387
-346.346	0.00292	3.75E-26	0.00423	0.00525	5.70E-25	0.00386
-346.847	0.0029	3.04E-26	0.00422	0.00524	6.93E-25	0.00386
-347.347	0.00289	3.08E-26	0.00422	0.00524	9.96E-25	0.00385
-347.848	0.00288	3.20E-26	0.00421	0.00523	1.17E-24	0.00385
-348.348	0.00286	3.00E-26	0.00421	0.00522	1.03E-24	0.00385
-348.849	0.00285	3.07E-26	0.0042	0.00521	8.81E-25	0.00384
-349.349	0.00284	2.69E-26	0.0042	0.0052	7.93E-25	0.00384
-349.85	0.00282	2.55E-26	0.00419	0.0052	8.12E-25	0.00383
-350.35	0.00281	2.08E-26	0.00419	0.00519	7.77E-25	0.00383
-350.851	0.0028	1.99E-26	0.00419	0.00518	8.42E-25	0.00382
-351.351	0.00279	2.10E-26	0.00418	0.00517	1.11E-24	0.00382
-351.852	0.00277	1.89E-26	0.00417	0.00517	1.23E-24	0.00382
-352.352	0.00276	2.12E-26	0.00417	0.00516	1.24E-24	0.00381
-352.853	0.00275	1.88E-26	0.00417	0.00515	1.24E-24	0.00381
-353.353	0.00274	1.96E-26	0.00416	0.00514	1.04E-24	0.0038
-353.854	0.00272	1.62E-26	0.00416	0.00513	8.72E-25	0.0038
-354.354	0.00271	1.53E-26	0.00415	0.00513	8.30E-25	0.0038
-354.855	0.0027	1.19E-26	0.00415	0.00512	7.55E-25	0.00379
-355.355	0.00269	1.09E-26	0.00414	0.00511	7.62E-25	0.00379
-355.856	0.00267	1.04E-26	0.00414	0.0051	1.10E-24	0.00379
-356.356	0.00266	9.50E-27	0.00413	0.0051	1.33E-24	0.00378
-356.857	0.00265	9.68E-27	0.00413	0.00509	1.20E-24	0.00378
-357.357	0.00264	8.78E-27	0.00412	0.00508	9.85E-25	0.00377
-357.858	0.00263	9.07E-27	0.00412	0.00507	8.77E-25	0.00377
-358.358	0.00261	7.69E-27	0.00411	0.00507	7.68E-25	0.00377
-358.859	0.0026	7.61E-27	0.00411	0.00506	7.49E-25	0.00376
-359.359	0.00259	6.45E-27	0.0041	0.00505	7.16E-25	0.00376

-359.86	0.00258	6.53E-27	0.0041	0.00505	7.01E-25	0.00375
-360.36	0.00257	5.16E-27	0.00409	0.00504	8.78E-25	0.00375
-360.861	0.00255	4.98E-27	0.00409	0.00503	9.57E-25	0.00375
-361.361	0.00254	4.92E-27	0.00409	0.00502	8.17E-25	0.00374
-361.862	0.00253	4.57E-27	0.00408	0.00502	6.46E-25	0.00374
-362.362	0.00252	4.81E-27	0.00407	0.00501	6.37E-25	0.00374
-362.863	0.00251	4.41E-27	0.00407	0.005	5.64E-25	0.00373
-363.363	0.0025	4.43E-27	0.00407	0.00499	4.89E-25	0.00373
-363.864	0.00248	3.81E-27	0.00406	0.00499	4.58E-25	0.00372
-364.364	0.00247	3.60E-27	0.00406	0.00498	4.57E-25	0.00372
-364.865	0.00246	3.62E-27	0.00405	0.00497	5.15E-25	0.00372
-365.365	0.00245	3.25E-27	0.00405	0.00496	4.71E-25	0.00371
-365.866	0.00244	3.56E-27	0.00404	0.00496	3.76E-25	0.00371
-366.366	0.00243	3.23E-27	0.00404	0.00495	3.29E-25	0.00371
-366.867	0.00242	3.45E-27	0.00403	0.00494	3.29E-25	0.0037
-367.367	0.00241	3.05E-27	0.00403	0.00494	2.95E-25	0.0037
-367.868	0.0024	3.08E-27	0.00402	0.00493	2.73E-25	0.00369
-368.368	0.00239	2.57E-27	0.00402	0.00492	2.56E-25	0.00369
-368.869	0.00237	2.46E-27	0.00402	0.00491	2.53E-25	0.00369
-369.369	0.00236	2.29E-27	0.00401	0.00491	2.21E-25	0.00368
-369.87	0.00235	2.20E-27	0.00401	0.0049	1.74E-25	0.00368
-370.37	0.00234	2.15E-27	0.004	0.00489	1.40E-25	0.00367
-370.871	0.00233	2.04E-27	0.004	0.00489	1.46E-25	0.00367
-371.371	0.00232	1.89E-27	0.00399	0.00488	1.36E-25	0.00367
-371.872	0.00231	1.67E-27	0.00399	0.00487	1.25E-25	0.00366
-372.372	0.0023	1.44E-27	0.00398	0.00487	1.12E-25	0.00366
-372.873	0.00229	1.26E-27	0.00398	0.00486	1.10E-25	0.00366
-373.373	0.00228	1.38E-27	0.00398	0.00485	9.20E-26	0.00365
-373.874	0.00227	1.32E-27	0.00397	0.00484	6.93E-26	0.00365
-374.374	0.00226	1.37E-27	0.00397	0.00484	5.80E-26	0.00364
-374.875	0.00225	1.23E-27	0.00396	0.00483	5.53E-26	0.00364
-375.375	0.00224	1.27E-27	0.00396	0.00482	5.01E-26	0.00364
-375.876	0.00223	1.06E-27	0.00395	0.00482	4.64E-26	0.00363
-376.376	0.00222	1.08E-27	0.00395	0.00481	4.30E-26	0.00363
-376.877	0.00221	9.51E-28	0.00394	0.0048	4.60E-26	0.00363
-377.377	0.0022	9.97E-28	0.00394	0.00479	3.93E-26	0.00362
-377.878	0.00219	1.00E-27	0.00394	0.00479	2.95E-26	0.00362
-378.378	0.00218	9.83E-28	0.00393	0.00478	2.54E-26	0.00362
-378.879	0.00217	9.86E-28	0.00393	0.00477	2.42E-26	0.00361
-379.379	0.00216	9.27E-28	0.00392	0.00477	2.20E-26	0.00361
-379.88	0.00215	9.17E-28	0.00392	0.00476	2.11E-26	0.00361
-380.38	0.00214	9.78E-28	0.00391	0.00475	1.94E-26	0.0036
-380.881	0.00213	8.77E-28	0.00391	0.00475	1.83E-26	0.0036
-381.381	0.00212	9.59E-28	0.00391	0.00474	1.46E-26	0.0036
-381.882	0.00211	8.48E-28	0.0039	0.00473	1.27E-26	0.00359
-382.382	0.0021	9.47E-28	0.0039	0.00473	1.03E-26	0.00359
-382.883	0.00209	8.68E-28	0.00389	0.00472	1.04E-26	0.00358
-383.383	0.00208	9.02E-28	0.00389	0.00471	9.66E-27	0.00358
-383.884	0.00207	8.28E-28	0.00389	0.00471	8.84E-27	0.00358

-384.384	0.00206	8.16E-28	0.00388	0.0047	8.64E-27	0.00357
-384.885	0.00205	7.58E-28	0.00388	0.0047	7.37E-27	0.00357
-385.385	0.00204	7.69E-28	0.00387	0.00469	5.88E-27	0.00357
-385.886	0.00203	7.99E-28	0.00387	0.00468	4.86E-27	0.00356
-386.386	0.00202	7.70E-28	0.00386	0.00468	4.05E-27	0.00356
-386.887	0.00201	7.42E-28	0.00386	0.00467	3.85E-27	0.00356
-387.387	0.002	6.58E-28	0.00385	0.00466	3.65E-27	0.00355
-387.888	0.002	6.05E-28	0.00385	0.00466	3.33E-27	0.00355
-388.388	0.00199	5.45E-28	0.00385	0.00465	3.36E-27	0.00355
-388.889	0.00198	6.14E-28	0.00384	0.00464	3.27E-27	0.00354
-389.389	0.00197	6.02E-28	0.00384	0.00464	2.60E-27	0.00354
-389.89	0.00196	6.37E-28	0.00383	0.00463	2.13E-27	0.00353
-390.39	0.00195	5.76E-28	0.00383	0.00462	1.84E-27	0.00353
-390.891	0.00194	6.16E-28	0.00383	0.00462	1.73E-27	0.00353
-391.391	0.00193	4.96E-28	0.00382	0.00461	1.71E-27	0.00352
-391.892	0.00193	5.21E-28	0.00382	0.0046	1.61E-27	0.00352
-392.392	0.00192	4.54E-28	0.00381	0.0046	1.63E-27	0.00352
-392.893	0.00191	4.54E-28	0.00381	0.00459	1.49E-27	0.00351
-393.393	0.0019	4.83E-28	0.0038	0.00458	1.12E-27	0.00351
-393.894	0.00189	4.71E-28	0.0038	0.00458	9.96E-28	0.00351
-394.394	0.00188	4.80E-28	0.0038	0.00457	9.71E-28	0.0035
-394.895	0.00187	4.90E-28	0.00379	0.00456	9.27E-28	0.0035
-395.395	0.00186	4.71E-28	0.00379	0.00456	8.96E-28	0.0035
-395.896	0.00186	5.22E-28	0.00379	0.00455	8.37E-28	0.00349
-396.396	0.00185	4.75E-28	0.00378	0.00455	8.66E-28	0.00349
-396.897	0.00184	5.64E-28	0.00378	0.00454	6.80E-28	0.00349
-397.397	0.00183	5.16E-28	0.00377	0.00453	5.86E-28	0.00348
-397.898	0.00182	5.89E-28	0.00377	0.00453	4.57E-28	0.00348
-398.398	0.00181	5.49E-28	0.00377	0.00452	4.94E-28	0.00348
-398.899	0.00181	5.81E-28	0.00376	0.00451	4.38E-28	0.00347
-399.399	0.0018	5.57E-28	0.00376	0.00451	4.26E-28	0.00347
-399.9	0.00179	5.49E-28	0.00375	0.0045	4.03E-28	0.00347
-400.4	0.00178	5.72E-28	0.00375	0.0045	3.83E-28	0.00346
-400.901	0.00177	5.89E-28	0.00375	0.00449	3.00E-28	0.00346
-401.401	0.00177	6.55E-28	0.00374	0.00448	2.59E-28	0.00346
-401.902	0.00176	6.02E-28	0.00374	0.00448	2.69E-28	0.00346
-402.402	0.00175	6.00E-28	0.00373	0.00447	2.58E-28	0.00345
-402.903	0.00174	5.10E-28	0.00373	0.00447	2.24E-28	0.00345
-403.403	0.00173	4.93E-28	0.00373	0.00446	2.01E-28	0.00345
-403.904	0.00173	4.93E-28	0.00372	0.00445	2.13E-28	0.00344
-404.404	0.00172	4.27E-28	0.00372	0.00445	1.91E-28	0.00344
-404.905	0.00171	4.09E-28	0.00371	0.00444	1.67E-28	0.00344
-405.405	0.0017	3.55E-28	0.00371	0.00443	1.28E-28	0.00343
-405.906	0.00169	3.34E-28	0.00371	0.00443	1.47E-28	0.00343
-406.406	0.00169	3.77E-28	0.0037	0.00442	1.39E-28	0.00343
-406.907	0.00168	3.31E-28	0.0037	0.00442	1.68E-28	0.00342
-407.407	0.00167	3.64E-28	0.00369	0.00441	1.32E-28	0.00342
-407.908	0.00166	3.18E-28	0.00369	0.00441	1.92E-28	0.00342
-408.408	0.00166	3.45E-28	0.00369	0.0044	1.35E-28	0.00341

-408.909	0.00165	2.78E-28	0.00368	0.00439	1.72E-28	0.00341
-409.409	0.00164	3.05E-28	0.00368	0.00439	1.19E-28	0.00341
-409.91	0.00163	2.87E-28	0.00367	0.00438	1.23E-28	0.0034
-410.41	0.00163	3.09E-28	0.00367	0.00438	1.09E-28	0.0034
-410.911	0.00162	3.25E-28	0.00367	0.00437	1.21E-28	0.0034
-411.411	0.00161	3.43E-28	0.00366	0.00436	9.01E-29	0.00339
-411.912	0.0016	3.43E-28	0.00366	0.00436	8.05E-29	0.00339
-412.412	0.0016	3.59E-28	0.00366	0.00435	7.08E-29	0.00339
-412.913	0.00159	3.33E-28	0.00365	0.00434	7.81E-29	0.00338
-413.413	0.00158	3.60E-28	0.00365	0.00434	7.51E-29	0.00338
-413.914	0.00157	3.08E-28	0.00364	0.00433	7.17E-29	0.00338
-414.414	0.00157	3.48E-28	0.00364	0.00433	5.12E-29	0.00337
-414.915	0.00156	3.14E-28	0.00364	0.00432	6.97E-29	0.00337
-415.415	0.00155	3.22E-28	0.00363	0.00432	5.78E-29	0.00337
-415.916	0.00155	3.01E-28	0.00363	0.00431	6.92E-29	0.00336
-416.416	0.00154	2.77E-28	0.00363	0.0043	5.67E-29	0.00336
-416.917	0.00153	2.70E-28	0.00362	0.0043	7.29E-29	0.00336
-417.417	0.00153	2.40E-28	0.00362	0.00429	4.95E-29	0.00336
-417.918	0.00152	2.42E-28	0.00362	0.00429	7.89E-29	0.00335
-418.418	0.00151	2.19E-28	0.00361	0.00428	5.55E-29	0.00335
-418.919	0.0015	2.19E-28	0.00361	0.00428	1.19E-28	0.00335
-419.419	0.0015	1.83E-28	0.0036	0.00427	8.75E-29	0.00334
-419.92	0.00149	1.77E-28	0.0036	0.00426	1.32E-28	0.00334
-420.42	0.00148	2.01E-28	0.0036	0.00426	7.69E-29	0.00334
-420.921	0.00148	1.92E-28	0.00359	0.00425	8.01E-29	0.00333
-421.421	0.00147	2.24E-28	0.00359	0.00425	7.47E-29	0.00333
-421.922	0.00146	1.98E-28	0.00359	0.00424	8.60E-29	0.00333
-422.422	0.00146	2.24E-28	0.00358	0.00424	6.71E-29	0.00332
-422.923	0.00145	1.79E-28	0.00358	0.00423	5.87E-29	0.00332
-423.423	0.00144	1.94E-28	0.00357	0.00422	5.66E-29	0.00332
-423.924	0.00144	1.77E-28	0.00357	0.00422	4.99E-29	0.00332
-424.424	0.00143	1.94E-28	0.00357	0.00421	4.40E-29	0.00331
-424.925	0.00142	2.08E-28	0.00356	0.00421	3.93E-29	0.00331
-425.425	0.00142	2.23E-28	0.00356	0.0042	3.50E-29	0.00331
-425.926	0.00141	2.28E-28	0.00356	0.0042	2.86E-29	0.0033
-426.426	0.00141	2.31E-28	0.00355	0.00419	3.63E-29	0.0033
-426.927	0.0014	2.17E-28	0.00355	0.00419	2.45E-29	0.0033
-427.427	0.00139	2.02E-28	0.00355	0.00418	3.32E-29	0.0033
-427.928	0.00139	1.77E-28	0.00354	0.00417	2.84E-29	0.00329
-428.428	0.00138	1.53E-28	0.00354	0.00417	3.31E-29	0.00329
-428.929	0.00137	1.50E-28	0.00353	0.00416	2.32E-29	0.00329
-429.429	0.00137	1.31E-28	0.00353	0.00416	2.31E-29	0.00328
-429.93	0.00136	1.35E-28	0.00353	0.00415	2.78E-29	0.00328
-430.43	0.00135	1.32E-28	0.00352	0.00415	2.91E-29	0.00328
-430.931	0.00135	1.48E-28	0.00352	0.00414	2.79E-29	0.00327
-431.431	0.00134	1.36E-28	0.00352	0.00414	2.35E-29	0.00327
-431.932	0.00134	1.52E-28	0.00351	0.00413	2.33E-29	0.00327
-432.432	0.00133	1.37E-28	0.00351	0.00413	1.83E-29	0.00327
-432.933	0.00132	1.53E-28	0.00351	0.00412	1.75E-29	0.00326

-433.433	0.00132	1.36E-28	0.0035	0.00411	8.50E-30	0.00326
-433.934	0.00131	1.43E-28	0.0035	0.00411	8.12E-30	0.00326
-434.434	0.00131	1.23E-28	0.0035	0.0041	7.79E-30	0.00325
-434.935	0.0013	1.26E-28	0.00349	0.0041	5.31E-30	0.00325
-435.435	0.00129	1.60E-28	0.00349	0.00409	3.53E-30	0.00325
-435.936	0.00129	1.51E-28	0.00348	0.00409	2.56E-30	0.00325
-436.436	0.00128	1.84E-28	0.00348	0.00408	1.49E-30	0.00324
-436.937	0.00128	1.57E-28	0.00348	0.00408	1.31E-30	0.00324
-437.437	0.00127	1.74E-28	0.00347	0.00407	8.28E-31	0.00324
-437.938	0.00127	1.30E-28	0.00347	0.00407	3.03E-31	0.00323
-438.438	0.00126	1.24E-28	0.00347	0.00406	3.50E-31	0.00323
-438.939	0.00125	9.91E-29	0.00347	0.00405	2.35E-31	0.00323
-439.44	0.00125	9.03E-29	0.00346	0.00405	0	0.00322
-439.94	0.00124	8.48E-29	0.00346	0.00404	0	0.00322
-440.44	0.00124	7.34E-29	0.00345	0.00404	0	0.00322
-440.941	0.00123	6.63E-29	0.00345	0.00403	0	0.00322
-441.441	0.00123	5.45E-29	0.00345	0.00403	0	0.00321
-441.942	0.00122	5.31E-29	0.00344	0.00402	0	0.00321
-442.442	0.00121	5.18E-29	0.00344	0.00402	0	0.00321
-442.943	0.00121	5.44E-29	0.00344	0.00401	0	0.0032
-443.444	0.0012	5.59E-29	0.00343	0.00401	0	0.0032
-443.944	0.0012	7.09E-29	0.00343	0.004	0	0.0032
-444.445	0.00119	7.44E-29	0.00343	0.004	0	0.00319
-444.945	0.00119	1.00E-28	0.00342	0.00399	0	0.00319
-445.445	0.00118	1.02E-28	0.00342	0.00399	0	0.00319
-445.946	0.00118	1.36E-28	0.00342	0.00398	0	0.00318
-446.446	0.00117	1.25E-28	0.00341	0.00398	0	0.00318
-446.947	0.00117	1.52E-28	0.00341	0.00397	0	0.00318
-447.447	0.00116	1.27E-28	0.00341	0.00397	0	0.00318
-447.948	0.00115	1.34E-28	0.0034	0.00396	0	0.00317
-448.449	0.00115	9.97E-29	0.0034	0.00396	0	0.00317
-448.949	0.00114	9.07E-29	0.0034	0.00395	0	0.00317
-449.45	0.00114	7.27E-29	0.00339	0.00395	0	0.00316
-449.95	0.00113	6.53E-29	0.00339	0.00394	0	0.00316
-450.45	0.00113	5.48E-29	0.00339	0.00394	0	0.00316
-450.951	0.00112	4.75E-29	0.00338	0.00393	0	0.00315
-451.451	0.00112	4.40E-29	0.00338	0.00393	0	0.00315
-451.952	0.00111	3.53E-29	0.00338	0.00392	0	0.00314
-452.453	0.00111	2.76E-29	0.00337	0.00392	0	0.00314
-452.953	0.0011	2.33E-29	0.00337	0.00391	0	0.00314
-453.454	0.0011	1.94E-29	0.00337	0.00391	0	0.00313
-453.954	0.00109	1.39E-29	0.00336	0.0039	0	0.00313
-454.455	0.00109	1.13E-29	0.00336	0.0039	0	0.00312
-454.955	0.00108	9.35E-30	0.00336	0.00389	0	0.00312
-455.455	0.00108	7.19E-30	0.00335	0.00389	0	0.00312
-455.956	0.00107	4.99E-30	0.00335	0.00388	0	0.00311
-456.457	0.00107	4.08E-30	0.00335	0.00388	0	0.00311
-456.957	0.00106	3.37E-30	0.00334	0.00387	0	0.0031
-457.458	0.00106	2.45E-30	0.00334	0.00387	0	0.00309

-457.958	0.00105	1.70E-30	0.00334	0.00386	0	0.00309
-458.459	0.00105	1.30E-30	0.00333	0.00386	0	0.00308
-458.959	0.00104	8.85E-31	0.00333	0.00385	0	0.00308
-459.46	0.00104	4.92E-31	0.00333	0.00385	0	0.00307
-459.96	0.00103	4.66E-31	0.00332	0.00384	0	0.00306
-460.46	0.00103	2.11E-31	0.00332	0.00384	0	0.00306
-460.961	0.00103	0	0.00332	0.00383	0	0.00305
-461.462	0.00102	0	0.00332	0.00383	0	0.00304
-461.962	0.00102	0	0.00331	0.00382	0	0.00303
-462.463	0.00101	0	0.00331	0.00382	0	0.00302
-462.963	0.00101	0	0.00331	0.00381	0	0.00301
-463.464	0.001	0	0.0033	0.00381	0	0.003
-463.964	9.98E-04	0	0.0033	0.0038	0	0.00299
-464.465	9.93E-04	0	0.0033	0.0038	0	0.00298
-464.965	9.89E-04	0	0.00329	0.00379	0	0.00297
-465.466	9.84E-04	0	0.00329	0.00379	0	0.00296
-465.966	9.80E-04	0	0.00329	0.00378	0	0.00295
-466.467	9.75E-04	0	0.00328	0.00378	0	0.00293
-466.967	9.71E-04	0	0.00328	0.00377	0	0.00292
-467.468	9.66E-04	0	0.00328	0.00377	0	0.00291
-467.968	9.62E-04	0	0.00328	0.00377	0	0.00289
-468.469	9.57E-04	0	0.00327	0.00376	0	0.00288
-468.969	9.53E-04	0	0.00327	0.00376	0	0.00286
-469.47	9.49E-04	0	0.00327	0.00375	0	0.00284
-469.97	9.44E-04	0	0.00326	0.00375	0	0.00282
-470.471	9.40E-04	0	0.00326	0.00374	0	0.00281
-470.971	9.36E-04	0	0.00326	0.00374	0	0.00279
-471.472	9.32E-04	0	0.00325	0.00373	0	0.00277
-471.972	9.27E-04	0	0.00325	0.00373	0	0.00275
-472.473	9.23E-04	0	0.00325	0.00372	0	0.00272
-472.973	9.19E-04	0	0.00324	0.00372	0	0.0027
-473.474	9.15E-04	0	0.00324	0.00371	0	0.00268
-473.974	9.11E-04	0	0.00324	0.00371	0	0.00265
-474.475	9.06E-04	0	0.00324	0.0037	0	0.00263
-474.975	9.02E-04	0	0.00323	0.0037	0	0.0026
-475.476	8.98E-04	0	0.00323	0.00369	0	0.00258
-475.976	8.94E-04	0	0.00323	0.00369	0	0.00255
-476.477	8.90E-04	0	0.00322	0.00368	0	0.00252
-476.977	8.86E-04	0	0.00322	0.00368	0	0.00249
-477.478	8.82E-04	0	0.00322	0.00368	0	0.00246
-477.978	8.78E-04	0	0.00321	0.00367	0	0.00243
-478.479	8.74E-04	0	0.00321	0.00367	0	0.0024
-478.979	8.70E-04	0	0.00321	0.00366	0	0.00237
-479.48	8.66E-04	0	0.0032	0.00366	0	0.00233
-479.98	8.62E-04	0	0.0032	0.00365	0	0.0023
-480.481	8.58E-04	0	0.0032	0.00365	0	0.00227
-480.981	8.54E-04	0	0.0032	0.00364	0	0.00223
-481.482	8.50E-04	0	0.00319	0.00364	0	0.0022
-481.982	8.46E-04	0	0.00319	0.00364	0	0.00216

-482.483	8.43E-04	0	0.00319	0.00363	0	0.00212
-482.983	8.39E-04	0	0.00318	0.00363	0	0.00209
-483.484	8.35E-04	0	0.00318	0.00362	0	0.00205
-483.984	8.31E-04	0	0.00318	0.00362	0	0.00201
-484.485	8.27E-04	0	0.00317	0.00361	0	0.00197
-484.985	8.24E-04	0	0.00317	0.00361	0	0.00193
-485.486	8.20E-04	0	0.00317	0.0036	0	0.00189
-485.986	8.16E-04	0	0.00317	0.0036	0	0.00185
-486.487	8.12E-04	0	0.00316	0.0036	0	0.00181
-486.987	8.09E-04	0	0.00316	0.00359	0	0.00177
-487.488	8.05E-04	0	0.00316	0.00359	0	0.00173
-487.988	8.01E-04	0	0.00315	0.00358	0	0.00169
-488.489	7.98E-04	0	0.00315	0.00358	0	0.00164
-488.989	7.94E-04	0	0.00315	0.00357	0	0.0016
-489.49	7.90E-04	0	0.00315	0.00357	0	0.00156
-489.99	7.87E-04	0	0.00314	0.00357	0	0.00152
-490.491	7.83E-04	0	0.00314	0.00356	0	0.00148
-490.991	7.80E-04	0	0.00314	0.00356	0	0.00144
-491.492	7.76E-04	0	0.00314	0.00355	0	0.0014
-491.992	7.73E-04	0	0.00313	0.00355	0	0.00135
-492.493	7.69E-04	0	0.00313	0.00354	0	0.00131
-492.993	7.66E-04	0	0.00313	0.00354	0	0.00127
-493.494	7.62E-04	0	0.00312	0.00353	0	0.00123
-493.994	7.59E-04	0	0.00312	0.00353	0	0.00119
-494.495	7.55E-04	0	0.00312	0.00353	0	0.00115
-494.995	7.52E-04	0	0.00312	0.00352	0	0.00111
-495.496	7.48E-04	0	0.00311	0.00352	0	0.00107
-495.996	7.45E-04	0	0.00311	0.00351	0	0.00104
-496.497	7.42E-04	0	0.00311	0.00351	0	9.98E-04
-496.997	7.38E-04	0	0.0031	0.0035	0	9.61E-04
-497.498	7.35E-04	0	0.0031	0.0035	0	9.25E-04
-497.998	7.31E-04	0	0.0031	0.0035	0	8.89E-04
-498.499	7.28E-04	0	0.0031	0.00349	0	8.53E-04
-498.999	7.25E-04	0	0.00309	0.00349	0	8.20E-04
-499.5	7.21E-04	0	0.00309	0.00348	0	7.80E-04
-500	7.21E-04	0	0.00309	0.00348	0	7.79E-04

Figure 5. Simulated retention profiles using the lowest maximum solid-phase retention capacity on solid-phase (S_{max}) and first-order attachment rate coefficient (k_a) data set (0.406E-01 $cm^3\ g^{-1}$, 0.133E+00 min^{-1}) at varying velocities (0.00441, 0.0441, 0.441, and 4.41 cm min^{-1}, with porosity of 0.34 and grain size of 360-µm; a), porosities (0.24, 0.34, 0.44, and 0.54, with Darcy velocity of 0.441 cm min^{-1} and grain size of 360-µm; b), and grain sizes (210-, 360-, 510-, 660-, and 810-µm, with porosity of 0.34 and Darcy velocity of 0.441 cm min^{-1}; c) in 500-cm long sand columns using the best model (M4) via forward simulation. Note different *y*-axis scales in the figures.

Data for Figure 5a – Effect of velocity				
Depth (cm)	S/C_o (cm^3/g)			
	0.00441 cm/min	0.0441 cm/min	0.441 cm/min	4.41 cm/min
0	0.0406	0.0406	0.0406	0.0406
-0.5005	0.03934	0.04055	0.0405	0.04049
-1.001	0.03174	0.04018	0.04014	0.04011
-1.5015	0.02051	0.03957	0.03965	0.03963
-2.002	0.01144	0.03881	0.03912	0.03911
-2.5025	0.00601	0.03796	0.03858	0.03859
-3.003	0.00313	0.03705	0.03804	0.03808
-3.5035	0.00166	0.0361	0.03753	0.03759
-4.004	8.94E-04	0.03512	0.03702	0.03712
-4.5045	4.91E-04	0.03415	0.03654	0.03667
-5.005	2.73E-04	0.03318	0.03608	0.03624
-5.5055	1.53E-04	0.03222	0.03563	0.03583
-6.006	8.50E-05	0.03129	0.03521	0.03543
-6.5065	4.68E-05	0.03038	0.0348	0.03506
-7.007	2.54E-05	0.02949	0.0344	0.0347
-7.5075	1.34E-05	0.02861	0.03402	0.03435
-8.008	6.90E-06	0.02775	0.03365	0.03402
-8.5085	3.45E-06	0.02689	0.0333	0.0337
-9.009	1.66E-06	0.02606	0.03295	0.0334
-9.5095	7.76E-07	0.02524	0.03262	0.0331
-10.01	3.49E-07	0.02444	0.0323	0.03282
-10.5105	1.52E-07	0.02367	0.03199	0.03254
-11.011	6.35E-08	0.02291	0.03169	0.03228
-11.5115	2.57E-08	0.02218	0.0314	0.03202
-12.012	1.00E-08	0.02147	0.03111	0.03177
-12.5125	3.78E-09	0.02079	0.03084	0.03153
-13.013	1.38E-09	0.02012	0.03057	0.0313
-13.5135	4.87E-10	0.01948	0.03031	0.03107
-14.014	1.66E-10	0.01886	0.03006	0.03085
-14.5145	5.50E-11	0.01825	0.02981	0.03064
-15.015	1.77E-11	0.01767	0.02957	0.03043
-15.5155	5.50E-12	0.0171	0.02933	0.03023
-16.016	1.66E-12	0.01656	0.0291	0.03003
-16.5165	4.89E-13	0.01603	0.02888	0.02984
-17.017	1.40E-13	0.01552	0.02866	0.02965
-17.5175	3.89E-14	0.01503	0.02845	0.02947

-18.018	1.05E-14	0.01455	0.02824	0.02929
-18.5185	2.78E-15	0.01409	0.02803	0.02911
-19.019	7.15E-16	0.01365	0.02783	0.02894
-19.5195	1.80E-16	0.01322	0.02763	0.02878
-20.02	4.40E-17	0.0128	0.02744	0.02862
-20.5205	1.05E-17	0.0124	0.02725	0.02846
-21.021	2.47E-18	0.01202	0.02707	0.0283
-21.5215	5.65E-19	0.01164	0.02689	0.02815
-22.022	1.26E-19	0.01128	0.02671	0.028
-22.5225	2.77E-20	0.01093	0.02653	0.02785
-23.023	5.94E-21	0.0106	0.02636	0.02771
-23.5235	1.25E-21	0.01027	0.0262	0.02757
-24.024	2.58E-22	0.00996	0.02603	0.02743
-24.5245	5.20E-23	0.00966	0.02587	0.0273
-25.025	1.03E-23	0.00936	0.02571	0.02717
-25.5255	2.00E-24	0.00908	0.02555	0.02704
-26.026	3.83E-25	0.00881	0.0254	0.02691
-26.5265	7.17E-26	0.00854	0.02525	0.02679
-27.027	1.32E-26	0.00828	0.0251	0.02666
-27.5275	2.39E-27	0.00804	0.02495	0.02654
-28.028	4.24E-28	0.0078	0.02481	0.02642
-28.5285	7.38E-29	0.00757	0.02466	0.02631
-29.029	1.24E-29	0.00734	0.02452	0.02619
-29.5295	1.85E-30	0.00713	0.02439	0.02608
-30.03	1.62E-31	0.00692	0.02425	0.02597
-30.5305	0	0.00671	0.02412	0.02586
-31.031	0	0.00652	0.02398	0.02575
-31.5315	0	0.00633	0.02385	0.02565
-32.032	0	0.00615	0.02373	0.02554
-32.5325	0	0.00597	0.0236	0.02544
-33.033	0	0.0058	0.02348	0.02534
-33.5335	0	0.00564	0.02335	0.02524
-34.034	0	0.00548	0.02323	0.02514
-34.5345	0	0.00532	0.02311	0.02504
-35.035	0	0.00517	0.02299	0.02495
-35.5355	0	0.00503	0.02288	0.02485
-36.036	0	0.00489	0.02276	0.02476
-36.5365	0	0.00475	0.02265	0.02467
-37.037	0	0.00462	0.02254	0.02458
-37.5375	0	0.00449	0.02243	0.02449
-38.038	0	0.00437	0.02232	0.0244
-38.5385	0	0.00425	0.02221	0.02432
-39.039	0	0.00414	0.0221	0.02423
-39.5395	0	0.00402	0.022	0.02415
-40.04	0	0.00392	0.02189	0.02407
-40.5405	0	0.00381	0.02179	0.02398
-41.041	0	0.00371	0.02169	0.0239
-41.5415	0	0.00361	0.02159	0.02382
-42.042	0	0.00351	0.02149	0.02374

-42.5425	0	0.00342	0.02139	0.02367
-43.043	0	0.00333	0.02129	0.02359
-43.5435	0	0.00324	0.0212	0.02351
-44.044	0	0.00316	0.0211	0.02344
-44.5445	0	0.00308	0.02101	0.02336
-45.045	0	0.003	0.02091	0.02329
-45.5455	0	0.00292	0.02082	0.02322
-46.0461	0	0.00284	0.02073	0.02314
-46.5466	0	0.00277	0.02064	0.02307
-47.0471	0	0.0027	0.02055	0.023
-47.5476	0	0.00263	0.02046	0.02293
-48.048	0	0.00257	0.02038	0.02286
-48.5485	0	0.0025	0.02029	0.0228
-49.049	0	0.00244	0.0202	0.02273
-49.5495	0	0.00238	0.02012	0.02266
-50.05	0	0.00232	0.02004	0.0226
-50.5505	0	0.00226	0.01995	0.02253
-51.051	0	0.0022	0.01987	0.02247
-51.5516	0	0.00215	0.01979	0.0224
-52.0521	0	0.00209	0.01971	0.02234
-52.5526	0	0.00203	0.01963	0.02228
-53.0531	0	0.00198	0.01955	0.02222
-53.5536	0	0.00193	0.01947	0.02216
-54.0541	0	0.00187	0.01939	0.02209
-54.5546	0	0.00182	0.01932	0.02203
-55.055	0	0.00176	0.01924	0.02198
-55.5556	0	0.0017	0.01917	0.02192
-56.0561	0	0.00165	0.01909	0.02186
-56.5566	0	0.00158	0.01902	0.0218
-57.0571	0	0.00152	0.01894	0.02174
-57.5576	0	0.00146	0.01887	0.02169
-58.0581	0	0.00139	0.0188	0.02163
-58.5586	0	0.00132	0.01873	0.02157
-59.0591	0	0.00125	0.01866	0.02152
-59.5596	0	0.00118	0.01858	0.02146
-60.0601	0	0.0011	0.01851	0.02141
-60.5606	0	0.00103	0.01845	0.02136
-61.0611	0	9.54E-04	0.01838	0.0213
-61.5616	0	8.80E-04	0.01831	0.02125
-62.0621	0	8.07E-04	0.01824	0.0212
-62.5626	0	7.35E-04	0.01817	0.02115
-63.0631	0	6.65E-04	0.01811	0.0211
-63.5636	0	5.98E-04	0.01804	0.02105
-64.0641	0	5.35E-04	0.01798	0.02099
-64.5646	0	4.74E-04	0.01791	0.02094
-65.0651	0	4.18E-04	0.01785	0.0209
-65.5656	0	3.66E-04	0.01778	0.02085
-66.0661	0	3.18E-04	0.01772	0.0208
-66.5666	0	2.74E-04	0.01766	0.02075

-67.0671	0	2.35E-04	0.0176	0.0207
-67.5676	0	2.00E-04	0.01754	0.02065
-68.0681	0	1.69E-04	0.01747	0.02061
-68.5686	0	1.41E-04	0.01741	0.02056
-69.0691	0	1.18E-04	0.01735	0.02051
-69.5696	0	9.72E-05	0.01729	0.02047
-70.0701	0	7.97E-05	0.01723	0.02042
-70.5706	0	6.49E-05	0.01717	0.02038
-71.0711	0	5.25E-05	0.01712	0.02033
-71.5716	0	4.21E-05	0.01706	0.02029
-72.0721	0	3.36E-05	0.017	0.02024
-72.5726	0	2.65E-05	0.01694	0.0202
-73.0731	0	2.08E-05	0.01689	0.02015
-73.5736	0	1.63E-05	0.01683	0.02011
-74.0741	0	1.26E-05	0.01677	0.02007
-74.5746	0	9.67E-06	0.01672	0.02003
-75.0751	0	7.38E-06	0.01666	0.01998
-75.5756	0	5.60E-06	0.01661	0.01994
-76.0761	0	4.21E-06	0.01655	0.0199
-76.5766	0	3.15E-06	0.0165	0.01986
-77.0771	0	2.34E-06	0.01645	0.01982
-77.5776	0	1.72E-06	0.01639	0.01978
-78.0781	0	1.26E-06	0.01634	0.01974
-78.5786	0	9.17E-07	0.01629	0.0197
-79.0791	0	6.63E-07	0.01624	0.01966
-79.5796	0	4.76E-07	0.01618	0.01962
-80.0801	0	3.39E-07	0.01613	0.01958
-80.5806	0	2.40E-07	0.01608	0.01954
-81.0811	0	1.69E-07	0.01603	0.0195
-81.5816	0	1.18E-07	0.01598	0.01946
-82.0821	0	8.19E-08	0.01593	0.01942
-82.5826	0	5.65E-08	0.01588	0.01938
-83.0831	0	3.87E-08	0.01583	0.01935
-83.5836	0	2.63E-08	0.01578	0.01931
-84.0841	0	1.78E-08	0.01573	0.01927
-84.5846	0	1.20E-08	0.01568	0.01924
-85.0851	0	8.01E-09	0.01563	0.0192
-85.5856	0	5.32E-09	0.01559	0.01916
-86.0861	0	3.51E-09	0.01554	0.01913
-86.5866	0	2.30E-09	0.01549	0.01909
-87.0871	0	1.50E-09	0.01544	0.01905
-87.5876	0	9.72E-10	0.0154	0.01902
-88.0881	0	6.26E-10	0.01535	0.01898
-88.5886	0	4.01E-10	0.01531	0.01895
-89.0891	0	2.55E-10	0.01526	0.01891
-89.5896	0	1.61E-10	0.01521	0.01888
-90.0901	0	1.02E-10	0.01517	0.01884
-90.5906	0	6.35E-11	0.01512	0.01881
-91.0911	0	3.95E-11	0.01508	0.01878

-91.5916	0	2.44E-11	0.01503	0.01874
-92.0921	0	1.50E-11	0.01499	0.01871
-92.5926	0	9.17E-12	0.01495	0.01868
-93.0931	0	5.58E-12	0.0149	0.01864
-93.5936	0	3.37E-12	0.01486	0.01861
-94.0941	0	2.03E-12	0.01482	0.01858
-94.5946	0	1.21E-12	0.01477	0.01854
-95.0951	0	7.20E-13	0.01473	0.01851
-95.5956	0	4.26E-13	0.01469	0.01848
-96.0961	0	2.51E-13	0.01465	0.01845
-96.5966	0	1.47E-13	0.0146	0.01842
-97.0971	0	8.53E-14	0.01456	0.01838
-97.5976	0	4.94E-14	0.01452	0.01835
-98.0981	0	2.85E-14	0.01448	0.01832
-98.5986	0	1.63E-14	0.01444	0.01829
-99.0991	0	9.29E-15	0.0144	0.01826
-99.5996	0	5.27E-15	0.01436	0.01823
-100.1	0	2.97E-15	0.01432	0.0182
-100.601	0	1.67E-15	0.01428	0.01817
-101.101	0	9.32E-16	0.01424	0.01814
-101.602	0	5.18E-16	0.0142	0.01811
-102.102	0	2.86E-16	0.01416	0.01808
-102.603	0	1.58E-16	0.01412	0.01805
-103.103	0	8.63E-17	0.01408	0.01802
-103.604	0	4.70E-17	0.01404	0.01799
-104.104	0	2.55E-17	0.014	0.01796
-104.605	0	1.38E-17	0.01396	0.01793
-105.105	0	7.39E-18	0.01393	0.0179
-105.606	0	3.95E-18	0.01389	0.01787
-106.106	0	2.10E-18	0.01385	0.01784
-106.607	0	1.11E-18	0.01381	0.01782
-107.107	0	5.88E-19	0.01378	0.01779
-107.608	0	3.08E-19	0.01374	0.01776
-108.108	0	1.61E-19	0.0137	0.01773
-108.609	0	8.37E-20	0.01366	0.0177
-109.109	0	4.34E-20	0.01363	0.01768
-109.61	0	2.23E-20	0.01359	0.01765
-110.11	0	1.15E-20	0.01356	0.01762
-110.611	0	5.86E-21	0.01352	0.01759
-111.111	0	2.98E-21	0.01348	0.01757
-111.612	0	1.51E-21	0.01345	0.01754
-112.112	0	7.61E-22	0.01341	0.01751
-112.613	0	3.82E-22	0.01338	0.01749
-113.113	0	1.91E-22	0.01334	0.01746
-113.614	0	9.50E-23	0.01331	0.01743
-114.114	0	4.71E-23	0.01327	0.01741
-114.615	0	2.32E-23	0.01324	0.01738
-115.115	0	1.14E-23	0.0132	0.01736
-115.616	0	5.59E-24	0.01317	0.01733

-116.116	0	2.73E-24	0.01314	0.0173
-116.617	0	1.32E-24	0.0131	0.01728
-117.117	0	6.40E-25	0.01307	0.01725
-117.618	0	3.08E-25	0.01304	0.01723
-118.118	0	1.48E-25	0.013	0.0172
-118.619	0	7.06E-26	0.01297	0.01718
-119.119	0	3.36E-26	0.01294	0.01715
-119.62	0	1.59E-26	0.0129	0.01713
-120.12	0	7.52E-27	0.01287	0.0171
-120.621	0	3.53E-27	0.01284	0.01708
-121.121	0	1.66E-27	0.01281	0.01705
-121.622	0	7.73E-28	0.01277	0.01703
-122.122	0	3.59E-28	0.01274	0.01701
-122.623	0	1.66E-28	0.01271	0.01698
-123.123	0	7.67E-29	0.01268	0.01696
-123.624	0	3.52E-29	0.01265	0.01693
-124.124	0	1.61E-29	0.01261	0.01691
-124.625	0	7.32E-30	0.01258	0.01689
-125.125	0	3.30E-30	0.01255	0.01686
-125.626	0	1.47E-30	0.01252	0.01684
-126.126	0	6.43E-31	0.01249	0.01682
-126.627	0	2.73E-31	0.01246	0.01679
-127.127	0	1.08E-31	0.01243	0.01677
-127.628	0	3.48E-32	0.0124	0.01675
-128.128	0	9.02E-33	0.01237	0.01672
-128.629	0	0.00E+00	0.01234	0.0167
-129.129	0	0.00E+00	0.01231	0.01668
-129.63	0	0.00E+00	0.01228	0.01666
-130.13	0	0.00E+00	0.01225	0.01663
-130.631	0	0.00E+00	0.01222	0.01661
-131.131	0	0.00E+00	0.01219	0.01659
-131.632	0	0.00E+00	0.01216	0.01657
-132.132	0	0.00E+00	0.01213	0.01654
-132.633	0	0.00E+00	0.0121	0.01652
-133.133	0	0.00E+00	0.01207	0.0165
-133.634	0	0.00E+00	0.01204	0.01648
-134.134	0	0.00E+00	0.01202	0.01646
-134.635	0	0.00E+00	0.01199	0.01643
-135.135	0	0.00E+00	0.01196	0.01641
-135.636	0	0.00E+00	0.01193	0.01639
-136.136	0	0.00E+00	0.0119	0.01637
-136.637	0	0.00E+00	0.01187	0.01635
-137.137	0	0.00E+00	0.01185	0.01633
-137.638	0	0.00E+00	0.01182	0.01631
-138.138	0	0.00E+00	0.01179	0.01629
-138.639	0	0.00E+00	0.01176	0.01627
-139.139	0	0.00E+00	0.01174	0.01624
-139.64	0	0.00E+00	0.01171	0.01622
-140.14	0	0.00E+00	0.01168	0.0162

-140.641	0	0.00E+00	0.01165	0.01618
-141.141	0	0.00E+00	0.01163	0.01616
-141.642	0	0.00E+00	0.0116	0.01614
-142.142	0	0.00E+00	0.01157	0.01612
-142.643	0	0.00E+00	0.01155	0.0161
-143.143	0	0.00E+00	0.01152	0.01608
-143.644	0	0.00E+00	0.01149	0.01606
-144.144	0	0.00E+00	0.01147	0.01604
-144.645	0	0.00E+00	0.01144	0.01602
-145.145	0	0.00E+00	0.01142	0.016
-145.646	0	0.00E+00	0.01139	0.01598
-146.146	0	0.00E+00	0.01136	0.01596
-146.647	0	0.00E+00	0.01134	0.01594
-147.147	0	0.00E+00	0.01131	0.01592
-147.648	0	0.00E+00	0.01129	0.0159
-148.148	0	0.00E+00	0.01126	0.01588
-148.649	0	0.00E+00	0.01124	0.01587
-149.149	0	0.00E+00	0.01121	0.01585
-149.65	0	0.00E+00	0.01119	0.01583
-150.15	0	0.00E+00	0.01116	0.01581
-150.651	0	0.00E+00	0.01114	0.01579
-151.151	0	0.00E+00	0.01111	0.01577
-151.652	0	0.00E+00	0.01109	0.01575
-152.152	0	0.00E+00	0.01106	0.01573
-152.653	0	0.00E+00	0.01104	0.01571
-153.153	0	0.00E+00	0.01101	0.0157
-153.654	0	0.00E+00	0.01099	0.01568
-154.154	0	0.00E+00	0.01096	0.01566
-154.655	0	0.00E+00	0.01094	0.01564
-155.155	0	0.00E+00	0.01092	0.01562
-155.656	0	0.00E+00	0.01089	0.0156
-156.156	0	0.00E+00	0.01087	0.01559
-156.657	0	0.00E+00	0.01084	0.01557
-157.157	0	0.00E+00	0.01082	0.01555
-157.658	0	0.00E+00	0.0108	0.01553
-158.158	0	0.00E+00	0.01077	0.01551
-158.659	0	0.00E+00	0.01075	0.0155
-159.159	0	0.00E+00	0.01073	0.01548
-159.66	0	0.00E+00	0.0107	0.01546
-160.16	0	0.00E+00	0.01068	0.01544
-160.661	0	0.00E+00	0.01066	0.01543
-161.161	0	0.00E+00	0.01064	0.01541
-161.662	0	0.00E+00	0.01061	0.01539
-162.162	0	0.00E+00	0.01059	0.01537
-162.663	0	0.00E+00	0.01057	0.01536
-163.163	0	0.00E+00	0.01054	0.01534
-163.664	0	0.00E+00	0.01052	0.01532
-164.164	0	0.00E+00	0.0105	0.01531
-164.665	0	0.00E+00	0.01048	0.01529

-165.165	0	0.00E+00	0.01046	0.01527
-165.666	0	0.00E+00	0.01043	0.01525
-166.166	0	0.00E+00	0.01041	0.01524
-166.667	0	0.00E+00	0.01039	0.01522
-167.167	0	0.00E+00	0.01037	0.0152
-167.668	0	0.00E+00	0.01035	0.01519
-168.168	0	0.00E+00	0.01032	0.01517
-168.669	0	0.00E+00	0.0103	0.01515
-169.169	0	0.00E+00	0.01028	0.01514
-169.67	0	0.00E+00	0.01026	0.01512
-170.17	0	0.00E+00	0.01024	0.01511
-170.671	0	0.00E+00	0.01022	0.01509
-171.171	0	0.00E+00	0.0102	0.01507
-171.672	0	0.00E+00	0.01017	0.01506
-172.172	0	0.00E+00	0.01015	0.01504
-172.673	0	0.00E+00	0.01013	0.01502
-173.173	0	0.00E+00	0.01011	0.01501
-173.674	0	0.00E+00	0.01009	0.01499
-174.174	0	0.00E+00	0.01007	0.01498
-174.675	0	0.00E+00	0.01005	0.01496
-175.175	0	0.00E+00	0.01003	0.01494
-175.676	0	0.00E+00	0.01001	0.01493
-176.176	0	0.00E+00	0.00999	0.01491
-176.677	0	0.00E+00	0.00997	0.0149
-177.177	0	0.00E+00	0.00995	0.01488
-177.678	0	0.00E+00	0.00993	0.01487
-178.178	0	0.00E+00	0.00991	0.01485
-178.679	0	0.00E+00	0.00989	0.01484
-179.179	0	0.00E+00	0.00987	0.01482
-179.68	0	0.00E+00	0.00985	0.01481
-180.18	0	0.00E+00	0.00983	0.01479
-180.681	0	0.00E+00	0.00981	0.01477
-181.181	0	0.00E+00	0.00979	0.01476
-181.682	0	0.00E+00	0.00977	0.01474
-182.182	0	0.00E+00	0.00975	0.01473
-182.683	0	0.00E+00	0.00973	0.01471
-183.183	0	0.00E+00	0.00971	0.0147
-183.684	0	0.00E+00	0.00969	0.01468
-184.184	0	0.00E+00	0.00967	0.01467
-184.685	0	0.00E+00	0.00965	0.01465
-185.185	0	0.00E+00	0.00963	0.01464
-185.686	0	0.00E+00	0.00961	0.01463
-186.186	0	0.00E+00	0.00959	0.01461
-186.687	0	0.00E+00	0.00957	0.0146
-187.187	0	0.00E+00	0.00955	0.01458
-187.688	0	0.00E+00	0.00954	0.01457
-188.188	0	0.00E+00	0.00952	0.01455
-188.689	0	0.00E+00	0.0095	0.01454
-189.189	0	0.00E+00	0.00948	0.01452

-189.69	0	0.00E+00	0.00946	0.01451
-190.19	0	0.00E+00	0.00944	0.01449
-190.691	0	0.00E+00	0.00942	0.01448
-191.191	0	0.00E+00	0.00941	0.01447
-191.692	0	0.00E+00	0.00939	0.01445
-192.192	0	0.00E+00	0.00937	0.01444
-192.693	0	0.00E+00	0.00935	0.01442
-193.193	0	0.00E+00	0.00933	0.01441
-193.694	0	0.00E+00	0.00931	0.0144
-194.194	0	0.00E+00	0.0093	0.01438
-194.695	0	0.00E+00	0.00928	0.01437
-195.195	0	0.00E+00	0.00926	0.01435
-195.696	0	0.00E+00	0.00924	0.01434
-196.196	0	0.00E+00	0.00922	0.01433
-196.697	0	0.00E+00	0.00921	0.01431
-197.197	0	0.00E+00	0.00919	0.0143
-197.698	0	0.00E+00	0.00917	0.01429
-198.198	0	0.00E+00	0.00915	0.01427
-198.699	0	0.00E+00	0.00914	0.01426
-199.199	0	0.00E+00	0.00912	0.01424
-199.7	0	0.00E+00	0.0091	0.01423
-200.2	0	0.00E+00	0.00908	0.01422
-200.701	0	0.00E+00	0.00907	0.0142
-201.201	0	0.00E+00	0.00905	0.01419
-201.702	0	0.00E+00	0.00903	0.01418
-202.202	0	0.00E+00	0.00902	0.01416
-202.703	0	0.00E+00	0.009	0.01415
-203.203	0	0.00E+00	0.00898	0.01414
-203.704	0	0.00E+00	0.00896	0.01412
-204.204	0	0.00E+00	0.00895	0.01411
-204.705	0	0.00E+00	0.00893	0.0141
-205.205	0	0.00E+00	0.00891	0.01409
-205.706	0	0.00E+00	0.0089	0.01407
-206.206	0	0.00E+00	0.00888	0.01406
-206.707	0	0.00E+00	0.00886	0.01405
-207.207	0	0.00E+00	0.00885	0.01403
-207.708	0	0.00E+00	0.00883	0.01402
-208.208	0	0.00E+00	0.00881	0.01401
-208.709	0	0.00E+00	0.0088	0.014
-209.209	0	0.00E+00	0.00878	0.01398
-209.71	0	0.00E+00	0.00877	0.01397
-210.21	0	0.00E+00	0.00875	0.01396
-210.711	0	0.00E+00	0.00873	0.01394
-211.211	0	0.00E+00	0.00872	0.01393
-211.712	0	0.00E+00	0.0087	0.01392
-212.212	0	0.00E+00	0.00868	0.01391
-212.713	0	0.00E+00	0.00867	0.01389
-213.213	0	0.00E+00	0.00865	0.01388
-213.714	0	0.00E+00	0.00864	0.01387

-214.214	0	0.00E+00	0.00862	0.01386
-214.715	0	0.00E+00	0.0086	0.01384
-215.215	0	0.00E+00	0.00859	0.01383
-215.716	0	0.00E+00	0.00857	0.01382
-216.216	0	0.00E+00	0.00856	0.01381
-216.717	0	0.00E+00	0.00854	0.0138
-217.217	0	0.00E+00	0.00853	0.01378
-217.718	0	0.00E+00	0.00851	0.01377
-218.218	0	0.00E+00	0.0085	0.01376
-218.719	0	0.00E+00	0.00848	0.01375
-219.219	0	0.00E+00	0.00846	0.01374
-219.72	0	0.00E+00	0.00845	0.01372
-220.22	0	0.00E+00	0.00843	0.01371
-220.721	0	0.00E+00	0.00842	0.0137
-221.221	0	0.00E+00	0.0084	0.01369
-221.722	0	0.00E+00	0.00839	0.01368
-222.222	0	0.00E+00	0.00837	0.01366
-222.723	0	0.00E+00	0.00836	0.01365
-223.223	0	0.00E+00	0.00834	0.01364
-223.724	0	0.00E+00	0.00833	0.01363
-224.224	0	0.00E+00	0.00831	0.01362
-224.725	0	0.00E+00	0.0083	0.01361
-225.225	0	0.00E+00	0.00828	0.01359
-225.726	0	0.00E+00	0.00827	0.01358
-226.226	0	0.00E+00	0.00825	0.01357
-226.727	0	0.00E+00	0.00824	0.01356
-227.227	0	0.00E+00	0.00822	0.01355
-227.728	0	0.00E+00	0.00821	0.01354
-228.228	0	0.00E+00	0.00819	0.01352
-228.729	0	0.00E+00	0.00818	0.01351
-229.229	0	0.00E+00	0.00817	0.0135
-229.73	0	0.00E+00	0.00815	0.01349
-230.23	0	0.00E+00	0.00814	0.01348
-230.731	0	0.00E+00	0.00812	0.01347
-231.231	0	0.00E+00	0.00811	0.01346
-231.732	0	0.00E+00	0.00809	0.01344
-232.232	0	0.00E+00	0.00808	0.01343
-232.733	0	0.00E+00	0.00807	0.01342
-233.233	0	0.00E+00	0.00805	0.01341
-233.734	0	0.00E+00	0.00804	0.0134
-234.234	0	0.00E+00	0.00802	0.01339
-234.735	0	0.00E+00	0.00801	0.01338
-235.235	0	0.00E+00	0.008	0.01337
-235.736	0	0.00E+00	0.00798	0.01336
-236.236	0	0.00E+00	0.00797	0.01335
-236.737	0	0.00E+00	0.00795	0.01333
-237.237	0	0.00E+00	0.00794	0.01332
-237.738	0	0.00E+00	0.00793	0.01331
-238.238	0	0.00E+00	0.00791	0.0133

-238.739	0	0.00E+00	0.0079	0.01329
-239.239	0	0.00E+00	0.00788	0.01328
-239.74	0	0.00E+00	0.00787	0.01327
-240.24	0	0.00E+00	0.00786	0.01326
-240.741	0	0.00E+00	0.00784	0.01325
-241.241	0	0.00E+00	0.00783	0.01324
-241.742	0	0.00E+00	0.00782	0.01323
-242.242	0	0.00E+00	0.0078	0.01322
-242.743	0	0.00E+00	0.00779	0.0132
-243.243	0	0.00E+00	0.00778	0.01319
-243.744	0	0.00E+00	0.00776	0.01318
-244.244	0	0.00E+00	0.00775	0.01317
-244.745	0	0.00E+00	0.00774	0.01316
-245.245	0	0.00E+00	0.00772	0.01315
-245.746	0	0.00E+00	0.00771	0.01314
-246.246	0	0.00E+00	0.0077	0.01313
-246.747	0	0.00E+00	0.00769	0.01312
-247.247	0	0.00E+00	0.00767	0.01311
-247.748	0	0.00E+00	0.00766	0.0131
-248.248	0	0.00E+00	0.00765	0.01309
-248.749	0	0.00E+00	0.00763	0.01308
-249.249	0	0.00E+00	0.00762	0.01307
-249.75	0	0.00E+00	0.00761	0.01306
-250.25	0	0.00E+00	0.00759	0.01305
-250.751	0	0.00E+00	0.00758	0.01304
-251.251	0	0.00E+00	0.00757	0.01303
-251.752	0	0.00E+00	0.00756	0.01302
-252.252	0	0.00E+00	0.00754	0.01301
-252.753	0	0.00E+00	0.00753	0.013
-253.253	0	0.00E+00	0.00752	0.01299
-253.754	0	0.00E+00	0.00751	0.01298
-254.254	0	0.00E+00	0.00749	0.01297
-254.755	0	0.00E+00	0.00748	0.01296
-255.255	0	0.00E+00	0.00747	0.01295
-255.756	0	0.00E+00	0.00745	0.01294
-256.256	0	0.00E+00	0.00744	0.01293
-256.757	0	0.00E+00	0.00743	0.01292
-257.257	0	0.00E+00	0.00742	0.01291
-257.758	0	0.00E+00	0.00741	0.0129
-258.258	0	0.00E+00	0.00739	0.01289
-258.759	0	0.00E+00	0.00738	0.01288
-259.259	0	0.00E+00	0.00737	0.01287
-259.76	0	0.00E+00	0.00736	0.01286
-260.26	0	0.00E+00	0.00735	0.01285
-260.761	0	0.00E+00	0.00733	0.01284
-261.261	0	0.00E+00	0.00732	0.01283
-261.762	0	0.00E+00	0.00731	0.01282
-262.262	0	0.00E+00	0.0073	0.01281
-262.763	0	0.00E+00	0.00728	0.0128

-263.263	0	0.00E+00	0.00727	0.01279
-263.764	0	0.00E+00	0.00726	0.01278
-264.264	0	0.00E+00	0.00725	0.01277
-264.765	0	0.00E+00	0.00724	0.01276
-265.265	0	0.00E+00	0.00722	0.01275
-265.766	0	0.00E+00	0.00721	0.01274
-266.266	0	0.00E+00	0.0072	0.01273
-266.767	0	0.00E+00	0.00719	0.01272
-267.267	0	0.00E+00	0.00718	0.01272
-267.768	0	0.00E+00	0.00717	0.01271
-268.268	0	0.00E+00	0.00715	0.0127
-268.769	0	0.00E+00	0.00714	0.01269
-269.269	0	0.00E+00	0.00713	0.01268
-269.77	0	0.00E+00	0.00712	0.01267
-270.27	0	0.00E+00	0.00711	0.01266
-270.771	0	0.00E+00	0.0071	0.01265
-271.271	0	0.00E+00	0.00709	0.01264
-271.772	0	0.00E+00	0.00707	0.01263
-272.272	0	0.00E+00	0.00706	0.01262
-272.773	0	0.00E+00	0.00705	0.01261
-273.273	0	0.00E+00	0.00704	0.0126
-273.774	0	0.00E+00	0.00703	0.01259
-274.274	0	0.00E+00	0.00702	0.01259
-274.775	0	0.00E+00	0.00701	0.01258
-275.275	0	0.00E+00	0.007	0.01257
-275.776	0	0.00E+00	0.00698	0.01256
-276.276	0	0.00E+00	0.00697	0.01255
-276.777	0	0.00E+00	0.00696	0.01254
-277.277	0	0.00E+00	0.00695	0.01253
-277.778	0	0.00E+00	0.00694	0.01252
-278.278	0	0.00E+00	0.00693	0.01251
-278.779	0	0.00E+00	0.00692	0.0125
-279.279	0	0.00E+00	0.00691	0.01249
-279.78	0	0.00E+00	0.0069	0.01249
-280.28	0	0.00E+00	0.00688	0.01248
-280.781	0	0.00E+00	0.00687	0.01247
-281.281	0	0.00E+00	0.00686	0.01246
-281.782	0	0.00E+00	0.00685	0.01245
-282.282	0	0.00E+00	0.00684	0.01244
-282.783	0	0.00E+00	0.00683	0.01243
-283.283	0	0.00E+00	0.00682	0.01242
-283.784	0	0.00E+00	0.00681	0.01242
-284.284	0	0.00E+00	0.0068	0.01241
-284.785	0	0.00E+00	0.00679	0.0124
-285.285	0	0.00E+00	0.00678	0.01239
-285.786	0	0.00E+00	0.00677	0.01238
-286.286	0	0.00E+00	0.00675	0.01237
-286.787	0	0.00E+00	0.00674	0.01236
-287.287	0	0.00E+00	0.00673	0.01235

-287.788	0	0.00E+00	0.00672	0.01235
-288.288	0	0.00E+00	0.00671	0.01234
-288.789	0	0.00E+00	0.0067	0.01233
-289.289	0	0.00E+00	0.00669	0.01232
-289.79	0	0.00E+00	0.00668	0.01231
-290.29	0	0.00E+00	0.00667	0.0123
-290.791	0	0.00E+00	0.00666	0.01229
-291.291	0	0.00E+00	0.00665	0.01229
-291.792	0	0.00E+00	0.00664	0.01228
-292.292	0	0.00E+00	0.00663	0.01227
-292.793	0	0.00E+00	0.00662	0.01226
-293.293	0	0.00E+00	0.00661	0.01225
-293.794	0	0.00E+00	0.0066	0.01224
-294.294	0	0.00E+00	0.00659	0.01224
-294.795	0	0.00E+00	0.00658	0.01223
-295.295	0	0.00E+00	0.00657	0.01222
-295.796	0	0.00E+00	0.00656	0.01221
-296.296	0	0.00E+00	0.00655	0.0122
-296.797	0	0.00E+00	0.00654	0.01219
-297.297	0	0.00E+00	0.00653	0.01219
-297.798	0	0.00E+00	0.00652	0.01218
-298.298	0	0.00E+00	0.00651	0.01217
-298.799	0	0.00E+00	0.0065	0.01216
-299.299	0	0.00E+00	0.00649	0.01215
-299.8	0	0.00E+00	0.00648	0.01214
-300.3	0	0.00E+00	0.00647	0.01214
-300.801	0	0.00E+00	0.00646	0.01213
-301.301	0	0.00E+00	0.00645	0.01212
-301.802	0	0.00E+00	0.00644	0.01211
-302.302	0	0.00E+00	0.00643	0.0121
-302.803	0	0.00E+00	0.00642	0.0121
-303.303	0	0.00E+00	0.00641	0.01209
-303.804	0	0.00E+00	0.0064	0.01208
-304.304	0	0.00E+00	0.00639	0.01207
-304.805	0	0.00E+00	0.00638	0.01206
-305.305	0	0.00E+00	0.00637	0.01206
-305.806	0	0.00E+00	0.00636	0.01205
-306.306	0	0.00E+00	0.00635	0.01204
-306.807	0	0.00E+00	0.00634	0.01203
-307.307	0	0.00E+00	0.00633	0.01202
-307.808	0	0.00E+00	0.00632	0.01202
-308.308	0	0.00E+00	0.00631	0.01201
-308.809	0	0.00E+00	0.0063	0.012
-309.309	0	0.00E+00	0.00629	0.01199
-309.81	0	0.00E+00	0.00628	0.01198
-310.31	0	0.00E+00	0.00628	0.01198
-310.811	0	0.00E+00	0.00626	0.01197
-311.311	0	0.00E+00	0.00626	0.01196
-311.812	0	0.00E+00	0.00625	0.01195

-312.312	0	0.00E+00	0.00624	0.01195
-312.813	0	0.00E+00	0.00623	0.01194
-313.313	0	0.00E+00	0.00622	0.01193
-313.814	0	0.00E+00	0.00621	0.01192
-314.314	0	0.00E+00	0.0062	0.01191
-314.815	0	0.00E+00	0.00619	0.01191
-315.315	0	0.00E+00	0.00618	0.0119
-315.816	0	0.00E+00	0.00617	0.01189
-316.316	0	0.00E+00	0.00616	0.01188
-316.817	0	0.00E+00	0.00615	0.01188
-317.317	0	0.00E+00	0.00615	0.01187
-317.818	0	0.00E+00	0.00614	0.01186
-318.318	0	0.00E+00	0.00613	0.01185
-318.819	0	0.00E+00	0.00612	0.01185
-319.319	0	0.00E+00	0.00611	0.01184
-319.82	0	0.00E+00	0.0061	0.01183
-320.32	0	0.00E+00	0.00609	0.01182
-320.821	0	0.00E+00	0.00608	0.01182
-321.321	0	0.00E+00	0.00607	0.01181
-321.822	0	0.00E+00	0.00606	0.0118
-322.322	0	0.00E+00	0.00605	0.01179
-322.823	0	0.00E+00	0.00605	0.01179
-323.323	0	0.00E+00	0.00604	0.01178
-323.824	0	0.00E+00	0.00603	0.01177
-324.324	0	0.00E+00	0.00602	0.01176
-324.825	0	0.00E+00	0.00601	0.01176
-325.325	0	0.00E+00	0.006	0.01175
-325.826	0	0.00E+00	0.00599	0.01174
-326.326	0	0.00E+00	0.00598	0.01173
-326.827	0	0.00E+00	0.00598	0.01173
-327.327	0	0.00E+00	0.00597	0.01172
-327.828	0	0.00E+00	0.00596	0.01171
-328.328	0	0.00E+00	0.00595	0.0117
-328.829	0	0.00E+00	0.00594	0.0117
-329.329	0	0.00E+00	0.00593	0.01169
-329.83	0	0.00E+00	0.00592	0.01168
-330.33	0	0.00E+00	0.00592	0.01168
-330.831	0	0.00E+00	0.00591	0.01167
-331.331	0	0.00E+00	0.0059	0.01166
-331.832	0	0.00E+00	0.00589	0.01165
-332.332	0	0.00E+00	0.00588	0.01165
-332.833	0	0.00E+00	0.00587	0.01164
-333.333	0	0.00E+00	0.00586	0.01163
-333.834	0	0.00E+00	0.00586	0.01163
-334.334	0	0.00E+00	0.00585	0.01162
-334.835	0	0.00E+00	0.00584	0.01161
-335.335	0	0.00E+00	0.00583	0.0116
-335.836	0	0.00E+00	0.00582	0.0116
-336.336	0	0.00E+00	0.00581	0.01159

-336.837	0	0.00E+00	0.00581	0.01158
-337.337	0	0.00E+00	0.0058	0.01158
-337.838	0	0.00E+00	0.00579	0.01157
-338.338	0	0.00E+00	0.00578	0.01156
-338.839	0	0.00E+00	0.00577	0.01155
-339.339	0	0.00E+00	0.00576	0.01155
-339.84	0	0.00E+00	0.00575	0.01154
-340.34	0	0.00E+00	0.00575	0.01153
-340.841	0	0.00E+00	0.00574	0.01153
-341.341	0	0.00E+00	0.00573	0.01152
-341.842	0	0.00E+00	0.00572	0.01151
-342.342	0	0.00E+00	0.00571	0.01151
-342.843	0	0.00E+00	0.00571	0.0115
-343.343	0	0.00E+00	0.0057	0.01149
-343.844	0	0.00E+00	0.00569	0.01148
-344.344	0	0.00E+00	0.00568	0.01148
-344.845	0	0.00E+00	0.00567	0.01147
-345.345	0	0.00E+00	0.00566	0.01146
-345.846	0	0.00E+00	0.00566	0.01146
-346.346	0	0.00E+00	0.00565	0.01145
-346.847	0	0.00E+00	0.00564	0.01144
-347.347	0	0.00E+00	0.00563	0.01144
-347.848	0	0.00E+00	0.00562	0.01143
-348.348	0	0.00E+00	0.00562	0.01142
-348.849	0	0.00E+00	0.00561	0.01142
-349.349	0	0.00E+00	0.0056	0.01141
-349.85	0	0.00E+00	0.00559	0.0114
-350.35	0	0.00E+00	0.00559	0.0114
-350.851	0	0.00E+00	0.00558	0.01139
-351.351	0	0.00E+00	0.00557	0.01138
-351.852	0	0.00E+00	0.00556	0.01138
-352.352	0	0.00E+00	0.00556	0.01137
-352.853	0	0.00E+00	0.00555	0.01136
-353.353	0	0.00E+00	0.00554	0.01136
-353.854	0	0.00E+00	0.00553	0.01135
-354.354	0	0.00E+00	0.00552	0.01134
-354.855	0	0.00E+00	0.00552	0.01134
-355.355	0	0.00E+00	0.00551	0.01133
-355.856	0	0.00E+00	0.0055	0.01132
-356.356	0	0.00E+00	0.00549	0.01132
-356.857	0	0.00E+00	0.00549	0.01131
-357.357	0	0.00E+00	0.00548	0.0113
-357.858	0	0.00E+00	0.00547	0.0113
-358.358	0	0.00E+00	0.00546	0.01129
-358.859	0	0.00E+00	0.00545	0.01128
-359.359	0	0.00E+00	0.00545	0.01128
-359.86	0	0.00E+00	0.00544	0.01127
-360.36	0	0.00E+00	0.00543	0.01126
-360.861	0	0.00E+00	0.00543	0.01126

-361.361	0	0.00E+00	0.00542	0.01125
-361.862	0	0.00E+00	0.00541	0.01124
-362.362	0	0.00E+00	0.0054	0.01124
-362.863	0	0.00E+00	0.00539	0.01123
-363.363	0	0.00E+00	0.00539	0.01123
-363.864	0	0.00E+00	0.00538	0.01122
-364.364	0	0.00E+00	0.00537	0.01121
-364.865	0	0.00E+00	0.00537	0.01121
-365.365	0	0.00E+00	0.00536	0.0112
-365.866	0	0.00E+00	0.00535	0.01119
-366.366	0	0.00E+00	0.00534	0.01119
-366.867	0	0.00E+00	0.00534	0.01118
-367.367	0	0.00E+00	0.00533	0.01117
-367.868	0	0.00E+00	0.00532	0.01117
-368.368	0	0.00E+00	0.00531	0.01116
-368.869	0	0.00E+00	0.00531	0.01116
-369.369	0	0.00E+00	0.0053	0.01115
-369.87	0	0.00E+00	0.00529	0.01114
-370.37	0	0.00E+00	0.00528	0.01114
-370.871	0	0.00E+00	0.00528	0.01113
-371.371	0	0.00E+00	0.00527	0.01112
-371.872	0	0.00E+00	0.00526	0.01112
-372.372	0	0.00E+00	0.00526	0.01111
-372.873	0	0.00E+00	0.00525	0.0111
-373.373	0	0.00E+00	0.00524	0.0111
-373.874	0	0.00E+00	0.00523	0.01109
-374.374	0	0.00E+00	0.00523	0.01109
-374.875	0	0.00E+00	0.00522	0.01108
-375.375	0	0.00E+00	0.00521	0.01107
-375.876	0	0.00E+00	0.00521	0.01107
-376.376	0	0.00E+00	0.0052	0.01106
-376.877	0	0.00E+00	0.00519	0.01106
-377.377	0	0.00E+00	0.00519	0.01105
-377.878	0	0.00E+00	0.00518	0.01104
-378.378	0	0.00E+00	0.00517	0.01104
-378.879	0	0.00E+00	0.00516	0.01103
-379.379	0	0.00E+00	0.00516	0.01102
-379.88	0	0.00E+00	0.00515	0.01102
-380.38	0	0.00E+00	0.00514	0.01101
-380.881	0	0.00E+00	0.00514	0.01101
-381.381	0	0.00E+00	0.00513	0.011
-381.882	0	0.00E+00	0.00512	0.01099
-382.382	0	0.00E+00	0.00512	0.01099
-382.883	0	0.00E+00	0.00511	0.01098
-383.383	0	0.00E+00	0.0051	0.01098
-383.884	0	0.00E+00	0.00509	0.01097
-384.384	0	0.00E+00	0.00509	0.01096
-384.885	0	0.00E+00	0.00508	0.01096
-385.385	0	0.00E+00	0.00507	0.01095

-385.886	0	0.00E+00	0.00507	0.01095
-386.386	0	0.00E+00	0.00506	0.01094
-386.887	0	0.00E+00	0.00505	0.01093
-387.387	0	0.00E+00	0.00505	0.01093
-387.888	0	0.00E+00	0.00504	0.01092
-388.388	0	0.00E+00	0.00503	0.01092
-388.889	0	0.00E+00	0.00503	0.01091
-389.389	0	0.00E+00	0.00502	0.0109
-389.89	0	0.00E+00	0.00501	0.0109
-390.39	0	0.00E+00	0.00501	0.01089
-390.891	0	0.00E+00	0.005	0.01089
-391.391	0	0.00E+00	0.00499	0.01088
-391.892	0	0.00E+00	0.00499	0.01088
-392.392	0	0.00E+00	0.00498	0.01087
-392.893	0	0.00E+00	0.00497	0.01086
-393.393	0	0.00E+00	0.00497	0.01086
-393.894	0	0.00E+00	0.00496	0.01085
-394.394	0	0.00E+00	0.00496	0.01085
-394.895	0	0.00E+00	0.00495	0.01084
-395.395	0	0.00E+00	0.00494	0.01083
-395.896	0	0.00E+00	0.00494	0.01083
-396.396	0	0.00E+00	0.00493	0.01082
-396.897	0	0.00E+00	0.00492	0.01082
-397.397	0	0.00E+00	0.00492	0.01081
-397.898	0	0.00E+00	0.00491	0.01081
-398.398	0	0.00E+00	0.0049	0.0108
-398.899	0	0.00E+00	0.0049	0.01079
-399.399	0	0.00E+00	0.00489	0.01079
-399.9	0	0.00E+00	0.00488	0.01078
-400.4	0	0.00E+00	0.00488	0.01078
-400.901	0	0.00E+00	0.00487	0.01077
-401.401	0	0.00E+00	0.00486	0.01077
-401.902	0	0.00E+00	0.00486	0.01076
-402.402	0.00E+00	0.00E+00	0.00485	0.01075
-402.903	0.00E+00	0.00E+00	0.00485	0.01075
-403.403	0.00E+00	0.00E+00	0.00484	0.01074
-403.904	0.00E+00	0.00E+00	0.00483	0.01074
-404.404	0.00E+00	0.00E+00	0.00483	0.01073
-404.905	0.00E+00	0.00E+00	0.00482	0.01073
-405.405	0.00E+00	0.00E+00	0.00481	0.01072
-405.906	0.00E+00	0.00E+00	0.00481	0.01072
-406.406	0.00E+00	0.00E+00	0.0048	0.01071
-406.907	0.00E+00	0.00E+00	0.00479	0.0107
-407.407	0.00E+00	0.00E+00	0.00479	0.0107
-407.908	0.00E+00	0.00E+00	0.00478	0.01069
-408.408	0.00E+00	0.00E+00	0.00478	0.01069
-408.909	0.00E+00	0.00E+00	0.00477	0.01068
-409.409	0.00E+00	0.00E+00	0.00476	0.01068
-409.91	0.00E+00	0.00E+00	0.00476	0.01067

-410.41	0.00E+00	0.00E+00	0.00475	0.01067
-410.911	0.00E+00	0.00E+00	0.00475	0.01066
-411.411	0.00E+00	0.00E+00	0.00474	0.01065
-411.912	0.00E+00	0.00E+00	0.00473	0.01065
-412.412	0.00E+00	0.00E+00	0.00473	0.01064
-412.913	0.00E+00	0.00E+00	0.00472	0.01064
-413.413	0.00E+00	0.00E+00	0.00471	0.01063
-413.914	0.00E+00	0.00E+00	0.00471	0.01063
-414.414	0.00E+00	0.00E+00	0.0047	0.01062
-414.915	0.00E+00	0.00E+00	0.0047	0.01062
-415.415	0.00E+00	0.00E+00	0.00469	0.01061
-415.916	0.00E+00	0.00E+00	0.00468	0.01061
-416.416	0.00E+00	0.00E+00	0.00468	0.0106
-416.917	0.00E+00	0.00E+00	0.00467	0.01059
-417.417	0.00E+00	0.00E+00	0.00467	0.01059
-417.918	0.00E+00	0.00E+00	0.00466	0.01058
-418.418	0.00E+00	0.00E+00	0.00466	0.01058
-418.919	0.00E+00	0.00E+00	0.00465	0.01057
-419.419	0.00E+00	0.00E+00	0.00464	0.01057
-419.92	0.00E+00	0.00E+00	0.00464	0.01056
-420.42	0.00E+00	0.00E+00	0.00463	0.01056
-420.921	0.00E+00	0.00E+00	0.00462	0.01055
-421.421	0.00E+00	0.00E+00	0.00462	0.01055
-421.922	0.00E+00	0.00E+00	0.00461	0.01054
-422.422	0.00E+00	0.00E+00	0.00461	0.01054
-422.923	0.00E+00	0.00E+00	0.0046	0.01053
-423.423	0.00E+00	0.00E+00	0.0046	0.01052
-423.924	0.00E+00	0.00E+00	0.00459	0.01052
-424.424	0.00E+00	0.00E+00	0.00458	0.01051
-424.925	0.00E+00	0.00E+00	0.00458	0.01051
-425.425	0.00E+00	0.00E+00	0.00457	0.0105
-425.926	0.00E+00	0.00E+00	0.00457	0.0105
-426.426	0.00E+00	0.00E+00	0.00456	0.01049
-426.927	0.00E+00	0.00E+00	0.00456	0.01049
-427.427	0.00E+00	0.00E+00	0.00455	0.01048
-427.928	0.00E+00	0.00E+00	0.00454	0.01048
-428.428	0.00E+00	0.00E+00	0.00454	0.01047
-428.929	0.00E+00	0.00E+00	0.00453	0.01047
-429.429	0.00E+00	0.00E+00	0.00453	0.01046
-429.93	0.00E+00	0.00E+00	0.00452	0.01046
-430.43	0.00E+00	0.00E+00	0.00451	0.01045
-430.931	0.00E+00	0.00E+00	0.00451	0.01045
-431.431	0.00E+00	0.00E+00	0.0045	0.01044
-431.932	0.00E+00	0.00E+00	0.0045	0.01044
-432.432	0.00E+00	0.00E+00	0.00449	0.01043
-432.933	0.00E+00	0.00E+00	0.00449	0.01043
-433.433	0.00E+00	0.00E+00	0.00448	0.01042
-433.934	0.00E+00	0.00E+00	0.00448	0.01042
-434.434	0.00E+00	0.00E+00	0.00447	0.01041

-434.935	0.00E+00	0.00E+00	0.00447	0.0104
-435.435	0.00E+00	0.00E+00	0.00446	0.0104
-435.936	0.00E+00	0.00E+00	0.00445	0.01039
-436.436	0.00E+00	0.00E+00	0.00445	0.01039
-436.937	0.00E+00	0.00E+00	0.00444	0.01038
-437.437	0.00E+00	0.00E+00	0.00444	0.01038
-437.938	0.00E+00	0.00E+00	0.00443	0.01037
-438.438	0.00E+00	0.00E+00	0.00443	0.01037
-438.939	0.00E+00	0.00E+00	0.00442	0.01036
-439.44	0.00E+00	0.00E+00	0.00441	0.01036
-439.94	0.00E+00	0.00E+00	0.00441	0.01035
-440.44	0.00E+00	0.00E+00	0.0044	0.01035
-440.941	0.00E+00	0.00E+00	0.0044	0.01034
-441.441	0.00E+00	0.00E+00	0.00439	0.01034
-441.942	0.00E+00	0.00E+00	0.00439	0.01033
-442.442	0.00E+00	0.00E+00	0.00438	0.01033
-442.943	0.00E+00	0	0.00438	0.01032
-443.444	0.00E+00	0	0.00437	0.01032
-443.944	0.00E+00	0	0.00437	0.01031
-444.444	0.00E+00	0	0.00436	0.01031
-444.945	0.00E+00	0	0.00436	0.0103
-445.445	0.00E+00	0	0.00435	0.0103
-445.946	0.00E+00	0	0.00434	0.01029
-446.446	0.00E+00	0	0.00434	0.01029
-446.947	0.00E+00	0	0.00433	0.01028
-447.447	0.00E+00	0	0.00433	0.01028
-447.948	0.00E+00	0	0.00432	0.01027
-448.448	0.00E+00	0	0.00432	0.01027
-448.949	0.00E+00	0	0.00431	0.01026
-449.449	0.00E+00	0	0.00431	0.01026
-449.95	0.00E+00	0	0.0043	0.01025
-450.45	0.00E+00	0	0.0043	0.01025
-450.951	0.00E+00	0	0.00429	0.01024
-451.451	0.00E+00	0	0.00428	0.01024
-451.952	0.00E+00	0	0.00428	0.01023
-452.453	0.00E+00	0	0.00428	0.01023
-452.953	0.00E+00	0	0.00427	0.01023
-453.453	0.00E+00	0	0.00426	0.01022
-453.954	0.00E+00	0	0.00426	0.01022
-454.454	0.00E+00	0	0.00425	0.01021
-454.955	0.00E+00	0	0.00425	0.01021
-455.455	0.00E+00	0	0.00424	0.0102
-455.956	0.00E+00	0	0.00424	0.0102
-456.457	0.00E+00	0	0.00423	0.01019
-456.957	0.00E+00	0	0.00423	0.01019
-457.457	0.00E+00	0	0.00422	0.01018
-457.958	0.00E+00	0	0.00422	0.01018
-458.458	0.00E+00	0	0.00421	0.01017
-458.959	0.00E+00	0	0.00421	0.01017

-459.46	0.00E+00	0	0.0042	0.01016
-459.96	0.00E+00	0	0.0042	0.01016
-460.46	0.00E+00	0	0.00419	0.01015
-460.961	0.00E+00	0	0.00419	0.01015
-461.461	0.00E+00	0	0.00418	0.01014
-461.962	0.00E+00	0	0.00418	0.01014
-462.462	0.00E+00	0	0.00417	0.01013
-462.963	0.00E+00	0	0.00417	0.01013
-463.464	0.00E+00	0	0.00416	0.01012
-463.964	0.00E+00	0	0.00416	0.01012
-464.465	0.00E+00	0	0.00415	0.01011
-464.965	0.00E+00	0	0.00415	0.01011
-465.466	0.00E+00	0	0.00414	0.01011
-465.966	0.00E+00	0	0.00414	0.0101
-466.466	0.00E+00	0	0.00413	0.0101
-466.967	0.00E+00	0	0.00413	0.01009
-467.467	0.00E+00	0	0.00412	0.01009
-467.968	0.00E+00	0	0.00412	0.01008
-468.469	0.00E+00	0	0.00411	0.01008
-468.969	0.00E+00	0	0.00411	0.01007
-469.47	0.00E+00	0	0.0041	0.01007
-469.97	0.00E+00	0	0.0041	0.01006
-470.47	0.00E+00	0	0.00409	0.01006
-470.971	0.00E+00	0	0.00409	0.01005
-471.471	0.00E+00	0	0.00408	0.01005
-471.972	0.00E+00	0	0.00408	0.01004
-472.473	0.00E+00	0	0.00407	0.01004
-472.973	0.00E+00	0	0.00407	0.01004
-473.474	0.00E+00	0	0.00406	0.01003
-473.974	0.00E+00	0	0.00406	0.01003
-474.474	0.00E+00	0	0.00405	0.01002
-474.975	0.00E+00	0	0.00405	0.01002
-475.475	0.00E+00	0	0.00404	0.01001
-475.976	0.00E+00	0	0.00404	0.01001
-476.477	0.00E+00	0	0.00403	0.01
-476.977	0.00E+00	0	0.00403	0.01
-477.478	0.00E+00	0	0.00402	0.00999
-477.978	0.00E+00	0	0.00402	0.00999
-478.478	0.00E+00	0	0.00402	0.00999
-478.979	0.00E+00	0	0.00401	0.00998
-479.479	0.00E+00	0	0.004	0.00998
-479.98	0.00E+00	0	0.004	0.00997
-480.48	0.00E+00	0	0.004	0.00997
-480.981	0.00E+00	0	0.00399	0.00996
-481.482	0.00E+00	0	0.00399	0.00996
-481.982	0.00E+00	0	0.00398	0.00995
-482.483	0.00E+00	0	0.00398	0.00995
-482.983	0.00E+00	0	0.00397	0.00995
-483.483	0.00E+00	0	0.00397	0.00994

-483.984	0.00E+00	0	0.00396	0.00994
-484.484	0.00E+00	0	0.00396	0.00993
-484.985	0.00E+00	0	0.00395	0.00993
-485.486	0.00E+00	0	0.00395	0.00992
-485.986	0.00E+00	0	0.00394	0.00992
-486.487	0.00E+00	0	0.00394	0.00991
-486.987	0.00E+00	0	0.00393	0.00991
-487.487	0.00E+00	0	0.00393	0.0099
-487.988	0.00E+00	0	0.00392	0.0099
-488.488	0.00E+00	0	0.00392	0.0099
-488.989	0.00E+00	0	0.00392	0.00989
-489.49	0.00E+00	0	0.00391	0.00989
-489.99	0.00E+00	0	0.00391	0.00988
-490.491	0.00E+00	0	0.0039	0.00988
-490.991	0.00E+00	0	0.0039	0.00987
-491.491	0.00E+00	0	0.00389	0.00987
-491.992	0.00E+00	0	0.00389	0.00987
-492.492	0.00E+00	0	0.00388	0.00986
-492.993	0.00E+00	0	0.00388	0.00986
-493.493	0.00E+00	0	0.00388	0.00985
-493.994	0.00E+00	0	0.00387	0.00985
-494.495	0.00E+00	0	0.00387	0.00984
-494.995	0.00E+00	0	0.00386	0.00984
-495.496	0.00E+00	0	0.00386	0.00983
-495.996	0.00E+00	0	0.00385	0.00983
-496.496	0.00E+00	0	0.00385	0.00983
-496.997	0.00E+00	0	0.00384	0.00982
-497.497	0.00E+00	0	0.00384	0.00982
-497.998	0.00E+00	0	0.00383	0.00981
-498.499	0.00E+00	0	0.00383	0.00981
-498.999	0.00E+00	0	0.00382	0.0098
-499.5	0.00E+00	0	0.00382	0.0098
-500	0.00E+00	0	0.00382	0.0098

Data for Figure 5b – Effect of porosity				
Depth (cm)	S/C_o (cm^3/g)			
	0.24	0.34	0.44	0.54
0	0.0406	0.0406	0.0406	0.0406
-0.5005	0.04	0.0405	0.04059	0.0406
-1.001	0.03886	0.04014	0.04049	0.04057
-1.5015	0.03772	0.03965	0.04031	0.04051
-2.002	0.03666	0.03912	0.04007	0.04041
-2.5025	0.03571	0.03858	0.0398	0.04029
-3.003	0.03484	0.03804	0.03951	0.04014
-3.5035	0.03404	0.03753	0.03921	0.03998
-4.004	0.03331	0.03702	0.03891	0.0398
-4.5045	0.03263	0.03654	0.0386	0.03962
-5.005	0.03201	0.03608	0.03829	0.03942

-5.5055	0.03142	0.03563	0.03799	0.03923
-6.006	0.03088	0.03521	0.03769	0.03903
-6.5065	0.03036	0.0348	0.03739	0.03883
-7.007	0.02988	0.0344	0.0371	0.03862
-7.5075	0.02942	0.03402	0.03681	0.03842
-8.008	0.02899	0.03365	0.03653	0.03822
-8.5085	0.02858	0.0333	0.03625	0.03801
-9.009	0.02819	0.03295	0.03598	0.03781
-9.5095	0.02782	0.03262	0.03572	0.03761
-10.01	0.02746	0.0323	0.03546	0.03741
-10.5105	0.02712	0.03199	0.0352	0.03721
-11.011	0.02679	0.03169	0.03495	0.03701
-11.5115	0.02648	0.0314	0.0347	0.03682
-12.012	0.02618	0.03111	0.03446	0.03662
-12.5125	0.02589	0.03084	0.03423	0.03643
-13.013	0.02561	0.03057	0.03399	0.03624
-13.5135	0.02534	0.03031	0.03377	0.03605
-14.014	0.02508	0.03006	0.03354	0.03587
-14.5145	0.02482	0.02981	0.03332	0.03568
-15.015	0.02458	0.02957	0.03311	0.0355
-15.5155	0.02434	0.02933	0.03289	0.03532
-16.016	0.02411	0.0291	0.03269	0.03514
-16.5165	0.02389	0.02888	0.03248	0.03496
-17.017	0.02367	0.02866	0.03228	0.03479
-17.5175	0.02346	0.02845	0.03208	0.03462
-18.018	0.02326	0.02824	0.03189	0.03445
-18.5185	0.02306	0.02803	0.03169	0.03428
-19.019	0.02286	0.02783	0.03151	0.03411
-19.5195	0.02268	0.02763	0.03132	0.03394
-20.02	0.02249	0.02744	0.03114	0.03378
-20.5205	0.02231	0.02725	0.03096	0.03361
-21.021	0.02214	0.02707	0.03078	0.03345
-21.5215	0.02197	0.02689	0.0306	0.03329
-22.022	0.0218	0.02671	0.03043	0.03314
-22.5225	0.02164	0.02653	0.03026	0.03298
-23.023	0.02148	0.02636	0.0301	0.03282
-23.5235	0.02132	0.0262	0.02993	0.03267
-24.024	0.02117	0.02603	0.02977	0.03252
-24.5245	0.02102	0.02587	0.02961	0.03237
-25.025	0.02087	0.02571	0.02945	0.03222
-25.5255	0.02073	0.02555	0.02929	0.03207
-26.026	0.02059	0.0254	0.02914	0.03193
-26.5265	0.02045	0.02525	0.02898	0.03178
-27.027	0.02031	0.0251	0.02883	0.03164
-27.5275	0.02018	0.02495	0.02869	0.0315
-28.028	0.02005	0.02481	0.02854	0.03135
-28.5285	0.01992	0.02466	0.02839	0.03122
-29.029	0.0198	0.02452	0.02825	0.03108
-29.5295	0.01968	0.02439	0.02811	0.03094

-30.03	0.01956	0.02425	0.02797	0.03081
-30.5305	0.01944	0.02412	0.02783	0.03067
-31.031	0.01932	0.02398	0.02769	0.03054
-31.5315	0.01921	0.02385	0.02756	0.03041
-32.032	0.01909	0.02373	0.02743	0.03027
-32.5325	0.01898	0.0236	0.0273	0.03015
-33.033	0.01887	0.02348	0.02716	0.03002
-33.5335	0.01876	0.02335	0.02704	0.02989
-34.034	0.01866	0.02323	0.02691	0.02976
-34.5345	0.01856	0.02311	0.02678	0.02964
-35.035	0.01845	0.02299	0.02666	0.02951
-35.5355	0.01835	0.02288	0.02653	0.02939
-36.036	0.01825	0.02276	0.02641	0.02927
-36.5365	0.01815	0.02265	0.02629	0.02915
-37.037	0.01806	0.02254	0.02617	0.02903
-37.5375	0.01796	0.02243	0.02605	0.02891
-38.038	0.01787	0.02232	0.02594	0.02879
-38.5385	0.01778	0.02221	0.02582	0.02867
-39.039	0.01769	0.0221	0.02571	0.02856
-39.5395	0.0176	0.022	0.02559	0.02844
-40.04	0.01751	0.02189	0.02548	0.02833
-40.5405	0.01742	0.02179	0.02537	0.02821
-41.041	0.01734	0.02169	0.02526	0.0281
-41.5415	0.01725	0.02159	0.02515	0.02799
-42.042	0.01717	0.02149	0.02504	0.02788
-42.5425	0.01708	0.02139	0.02494	0.02777
-43.043	0.017	0.02129	0.02483	0.02766
-43.5435	0.01692	0.0212	0.02473	0.02755
-44.044	0.01684	0.0211	0.02462	0.02744
-44.5445	0.01676	0.02101	0.02452	0.02733
-45.045	0.01669	0.02091	0.02442	0.02723
-45.5455	0.01661	0.02082	0.02431	0.02712
-46.0461	0.01653	0.02073	0.02421	0.02702
-46.5466	0.01646	0.02064	0.02411	0.02691
-47.0471	0.01638	0.02055	0.02402	0.02681
-47.5476	0.01631	0.02046	0.02392	0.02671
-48.048	0.01624	0.02038	0.02382	0.02661
-48.5485	0.01617	0.02029	0.02373	0.0265
-49.049	0.0161	0.0202	0.02363	0.0264
-49.5495	0.01603	0.02012	0.02354	0.0263
-50.05	0.01596	0.02004	0.02344	0.02621
-50.5505	0.01589	0.01995	0.02335	0.02611
-51.051	0.01582	0.01987	0.02326	0.02601
-51.5516	0.01576	0.01979	0.02317	0.02591
-52.0521	0.01569	0.01971	0.02308	0.02582
-52.5526	0.01562	0.01963	0.02299	0.02572
-53.0531	0.01556	0.01955	0.0229	0.02563
-53.5536	0.0155	0.01947	0.02281	0.02553
-54.0541	0.01543	0.01939	0.02272	0.02544

-54.5546	0.01537	0.01932	0.02263	0.02535
-55.055	0.01531	0.01924	0.02255	0.02525
-55.5556	0.01525	0.01917	0.02246	0.02516
-56.0561	0.01519	0.01909	0.02238	0.02507
-56.5566	0.01513	0.01902	0.02229	0.02498
-57.0571	0.01507	0.01894	0.02221	0.02489
-57.5576	0.01501	0.01887	0.02213	0.0248
-58.0581	0.01495	0.0188	0.02204	0.02471
-58.5586	0.01489	0.01873	0.02196	0.02462
-59.0591	0.01483	0.01866	0.02188	0.02453
-59.5596	0.01478	0.01858	0.0218	0.02445
-60.0601	0.01472	0.01851	0.02172	0.02436
-60.5606	0.01467	0.01845	0.02164	0.02427
-61.0611	0.01461	0.01838	0.02156	0.02419
-61.5616	0.01456	0.01831	0.02148	0.0241
-62.0621	0.0145	0.01824	0.02141	0.02402
-62.5626	0.01445	0.01817	0.02133	0.02393
-63.0631	0.0144	0.01811	0.02125	0.02385
-63.5636	0.01434	0.01804	0.02118	0.02377
-64.0641	0.01429	0.01798	0.0211	0.02368
-64.5646	0.01424	0.01791	0.02103	0.0236
-65.0651	0.01419	0.01785	0.02095	0.02352
-65.5656	0.01414	0.01778	0.02088	0.02344
-66.0661	0.01409	0.01772	0.02081	0.02336
-66.5666	0.01404	0.01766	0.02073	0.02328
-67.0671	0.01399	0.0176	0.02066	0.0232
-67.5676	0.01394	0.01754	0.02059	0.02312
-68.0681	0.01389	0.01747	0.02052	0.02304
-68.5686	0.01384	0.01741	0.02045	0.02296
-69.0691	0.0138	0.01735	0.02038	0.02289
-69.5696	0.01375	0.01729	0.02031	0.02281
-70.0701	0.0137	0.01723	0.02024	0.02273
-70.5706	0.01365	0.01717	0.02017	0.02265
-71.0711	0.01361	0.01712	0.0201	0.02258
-71.5716	0.01356	0.01706	0.02003	0.0225
-72.0721	0.01352	0.017	0.01996	0.02243
-72.5726	0.01347	0.01694	0.0199	0.02235
-73.0731	0.01343	0.01689	0.01983	0.02228
-73.5736	0.01338	0.01683	0.01976	0.0222
-74.0741	0.01334	0.01677	0.0197	0.02213
-74.5746	0.0133	0.01672	0.01963	0.02206
-75.0751	0.01325	0.01666	0.01957	0.02199
-75.5756	0.01321	0.01661	0.0195	0.02191
-76.0761	0.01317	0.01655	0.01944	0.02184
-76.5766	0.01313	0.0165	0.01937	0.02177
-77.0771	0.01308	0.01645	0.01931	0.0217
-77.5776	0.01304	0.01639	1.93E-02	0.02163
-78.0781	0.013	0.01634	1.92E-02	0.02156
-78.5786	0.01296	0.01629	1.91E-02	0.02149

-79.0791	0.01292	0.01624	1.91E-02	0.02142
-79.5796	0.01288	0.01618	1.90E-02	0.02135
-80.0801	0.01284	0.01613	1.89E-02	0.02128
-80.5806	0.0128	0.01608	1.89E-02	0.02121
-81.0811	0.01276	0.01603	1.88E-02	0.02114
-81.5816	0.01272	0.01598	1.88E-02	0.02108
-82.0821	0.01268	0.01593	1.87E-02	0.02101
-82.5826	0.01264	0.01588	1.86E-02	0.02094
-83.0831	0.0126	0.01583	1.86E-02	0.02087
-83.5836	0.01257	0.01578	1.85E-02	0.02081
-84.0841	0.01253	0.01573	1.85E-02	0.02074
-84.5846	0.01249	0.01568	1.84E-02	0.02068
-85.0851	0.01245	0.01563	1.83E-02	0.02061
-85.5856	0.01242	0.01559	1.83E-02	0.02054
-86.0861	0.01238	0.01554	1.82E-02	0.02048
-86.5866	0.01234	0.01549	1.82E-02	0.02042
-87.0871	0.01231	0.01544	1.81E-02	0.02035
-87.5876	0.01227	0.0154	1.81E-02	0.02029
-88.0881	0.01223	0.01535	1.80E-02	0.02022
-88.5886	0.0122	0.01531	1.80E-02	0.02016
-89.0891	0.01216	0.01526	1.79E-02	0.0201
-89.5896	0.01213	0.01521	1.78E-02	0.02004
-90.0901	0.01209	0.01517	1.78E-02	0.01997
-90.5906	0.01206	0.01512	1.77E-02	0.01991
-91.0911	0.01203	0.01508	1.77E-02	0.01985
-91.5916	0.01199	0.01503	1.76E-02	0.01979
-92.0921	0.01196	0.01499	1.76E-02	0.01973
-92.5926	0.01192	0.01495	1.75E-02	0.01967
-93.0931	0.01189	0.0149	1.75E-02	0.01961
-93.5936	0.01186	0.01486	1.74E-02	0.01955
-94.0941	0.01182	0.01482	1.74E-02	0.01949
-94.5946	0.01179	0.01477	1.73E-02	0.01943
-95.0951	0.01176	0.01473	1.73E-02	0.01937
-95.5956	0.01173	0.01469	1.72E-02	0.01931
-96.0961	0.01169	0.01465	1.72E-02	0.01925
-96.5966	0.01166	0.0146	1.71E-02	0.01919
-97.0971	0.01163	0.01456	1.71E-02	0.01913
-97.5976	0.0116	0.01452	1.70E-02	0.01908
-98.0981	0.01157	0.01448	1.70E-02	0.01902
-98.5986	0.01154	0.01444	1.69E-02	0.01896
-99.0991	0.0115	0.0144	1.69E-02	0.0189
-99.5996	0.01147	0.01436	1.68E-02	0.01885
-100.1001	0.01144	0.01432	1.68E-02	0.01879
-100.6006	0.01141	0.01428	1.67E-02	0.01873
-101.1011	0.01138	0.01424	1.67E-02	0.01868
-101.6016	0.01135	0.0142	1.66E-02	0.01862
-102.1021	0.01132	0.01416	1.66E-02	0.01857
-102.6026	0.01129	0.01412	1.65E-02	0.01851
-103.1031	0.01126	0.01408	1.65E-02	0.01846

-103.6036	0.01123	0.01404	1.64E-02	0.0184
-104.1041	0.0112	0.014	1.64E-02	0.01835
-104.6046	0.01118	0.01396	1.63E-02	0.01829
-105.1051	0.01115	0.01393	1.63E-02	0.01824
-105.6056	0.01112	0.01389	1.62E-02	0.01819
-106.1061	0.01109	0.01385	1.62E-02	0.01813
-106.6066	0.01106	0.01381	1.61E-02	0.01808
-107.1071	0.01103	0.01378	1.61E-02	0.01803
-107.6076	0.011	0.01374	1.61E-02	0.01797
-108.1081	0.01098	0.0137	1.60E-02	0.01792
-108.6086	0.01095	0.01366	1.60E-02	0.01787
-109.1091	0.01092	0.01363	1.59E-02	0.01782
-109.6096	0.01089	0.01359	1.59E-02	0.01777
-110.1101	0.01087	0.01356	1.58E-02	0.01771
-110.6106	0.01084	0.01352	1.58E-02	0.01766
-111.1111	0.01081	0.01348	1.57E-02	0.01761
-111.6116	0.01079	0.01345	1.57E-02	0.01756
-112.1121	0.01076	0.01341	1.57E-02	0.01751
-112.6126	0.01073	0.01338	1.56E-02	0.01746
-113.1131	0.01071	0.01334	1.56E-02	0.01741
-113.6136	0.01068	0.01331	1.55E-02	0.01736
-114.1141	0.01065	0.01327	1.55E-02	0.01731
-114.6146	0.01063	0.01324	1.54E-02	0.01726
-115.1151	0.0106	0.0132	1.54E-02	0.01721
-115.6156	0.01058	0.01317	1.54E-02	0.01716
-116.1161	0.01055	0.01314	1.53E-02	0.01711
-116.6166	0.01053	0.0131	1.53E-02	0.01707
-117.1171	0.0105	0.01307	1.52E-02	0.01702
-117.6176	0.01048	0.01304	1.52E-02	0.01697
-118.1181	0.01045	0.013	1.51E-02	0.01692
-118.6186	0.01043	0.01297	1.51E-02	0.01687
-119.1191	0.0104	0.01294	1.51E-02	0.01683
-119.6196	0.01038	0.0129	1.50E-02	0.01678
-120.1201	0.01035	0.01287	1.50E-02	0.01673
-120.6206	0.01033	0.01284	1.49E-02	0.01668
-121.1211	0.0103	0.01281	1.49E-02	0.01664
-121.6216	0.01028	0.01277	1.49E-02	0.01659
-122.1221	0.01025	0.01274	1.48E-02	0.01654
-122.6226	0.01023	0.01271	1.48E-02	0.0165
-123.1231	0.01021	0.01268	1.47E-02	0.01645
-123.6236	0.01018	0.01265	1.47E-02	0.01641
-124.1241	0.01016	0.01261	1.47E-02	0.01636
-124.6246	0.01014	0.01258	1.46E-02	0.01631
-125.1251	0.01011	0.01255	1.46E-02	0.01627
-125.6256	0.01009	0.01252	1.46E-02	0.01622
-126.1261	0.01007	0.01249	1.45E-02	0.01618
-126.6266	0.01004	0.01246	1.45E-02	0.01613
-127.1271	0.01002	0.01243	1.44E-02	0.01609
-127.6276	0.01	0.0124	1.44E-02	0.01605

-128.1281	0.00998	0.01237	1.44E-02	0.016
-128.6286	0.00995	0.01234	1.43E-02	0.01596
-129.1291	0.00993	0.01231	1.43E-02	0.01591
-129.6296	0.00991	0.01228	1.43E-02	0.01587
-130.1301	0.00989	0.01225	1.42E-02	0.01583
-130.6306	0.00986	0.01222	1.42E-02	0.01578
-131.1311	0.00984	0.01219	1.41E-02	0.01574
-131.6316	0.00982	0.01216	1.41E-02	0.0157
-132.1321	0.0098	0.01213	1.41E-02	0.01565
-132.6326	0.00978	0.0121	1.40E-02	0.01561
-133.1331	0.00975	0.01207	1.40E-02	0.01557
-133.6336	0.00973	0.01204	1.40E-02	0.01553
-134.1341	0.00971	0.01202	1.39E-02	0.01548
-134.6346	0.00969	0.01199	1.39E-02	0.01544
-135.1351	0.00967	0.01196	1.39E-02	0.0154
-135.6356	0.00965	0.01193	1.38E-02	0.01536
-136.1361	0.00963	0.0119	1.38E-02	0.01532
-136.6366	0.00961	0.01187	1.38E-02	0.01528
-137.1371	0.00959	0.01185	1.37E-02	0.01524
-137.6376	0.00957	0.01182	1.37E-02	0.0152
-138.1381	0.00954	0.01179	1.36E-02	0.01515
-138.6386	0.00953	0.01176	1.36E-02	0.01511
-139.1391	0.0095	0.01174	1.36E-02	0.01507
-139.6396	0.00948	0.01171	1.35E-02	0.01503
-140.1401	0.00946	0.01168	1.35E-02	0.01499
-140.6406	0.00944	0.01165	1.35E-02	0.01495
-141.1411	0.00942	0.01163	1.34E-02	0.01491
-141.6416	0.0094	0.0116	1.34E-02	0.01487
-142.1421	0.00938	0.01157	1.34E-02	0.01483
-142.6426	0.00936	0.01155	1.33E-02	0.01479
-143.1431	0.00934	0.01152	1.33E-02	0.01476
-143.6436	0.00933	0.01149	1.33E-02	0.01472
-144.1441	0.00931	0.01147	1.32E-02	0.01468
-144.6446	0.00929	0.01144	1.32E-02	0.01464
-145.1451	0.00927	0.01142	1.32E-02	0.0146
-145.6456	0.00925	0.01139	1.31E-02	0.01456
-146.1461	0.00923	0.01136	1.31E-02	0.01452
-146.6467	0.00921	0.01134	1.31E-02	0.01449
-147.1471	0.00919	0.01131	1.31E-02	0.01445
-147.6476	0.00917	0.01129	1.30E-02	0.01441
-148.1481	0.00915	0.01126	1.30E-02	0.01437
-148.6487	0.00913	0.01124	1.30E-02	0.01433
-149.1492	0.00911	0.01121	1.29E-02	0.0143
-149.6496	0.0091	0.01119	1.29E-02	0.01426
-150.1501	0.00908	0.01116	1.29E-02	0.01422
-150.6507	0.00906	0.01114	1.28E-02	0.01419
-151.1512	0.00904	0.01111	1.28E-02	0.01415
-151.6517	0.00902	0.01109	1.28E-02	0.01411
-152.1521	0.00901	0.01106	1.27E-02	0.01408

-152.6526	0.00899	0.01104	1.27E-02	0.01404
-153.1532	0.00897	0.01101	1.27E-02	0.014
-153.6537	0.00895	0.01099	1.26E-02	0.01397
-154.1542	0.00893	0.01096	1.26E-02	0.01393
-154.6546	0.00891	0.01094	1.26E-02	0.01389
-155.1552	0.0089	0.01092	1.26E-02	0.01386
-155.6557	0.00888	0.01089	1.25E-02	0.01382
-156.1562	0.00886	0.01087	1.25E-02	0.01379
-156.6567	0.00884	0.01084	1.25E-02	0.01375
-157.1572	0.00883	0.01082	1.24E-02	0.01372
-157.6577	0.00881	0.0108	1.24E-02	0.01368
-158.1582	0.00879	0.01077	1.24E-02	0.01365
-158.6587	0.00877	0.01075	1.23E-02	0.01361
-159.1592	0.00876	0.01073	1.23E-02	0.01358
-159.6597	0.00874	0.0107	1.23E-02	0.01354
-160.1602	0.00872	0.01068	1.23E-02	0.01351
-160.6607	0.00871	0.01066	1.22E-02	0.01347
-161.1612	0.00869	0.01064	1.22E-02	0.01344
-161.6617	0.00867	0.01061	1.22E-02	0.01341
-162.1622	0.00866	0.01059	1.21E-02	0.01337
-162.6627	0.00864	0.01057	1.21E-02	0.01334
-163.1632	0.00862	0.01054	1.21E-02	0.0133
-163.6637	0.00861	0.01052	1.21E-02	0.01327
-164.1642	0.00859	0.0105	1.20E-02	0.01324
-164.6647	0.00857	0.01048	1.20E-02	0.0132
-165.1652	0.00856	0.01046	1.20E-02	0.01317
-165.6657	0.00854	0.01043	1.19E-02	0.01314
-166.1662	0.00852	0.01041	1.19E-02	0.0131
-166.6667	0.00851	0.01039	1.19E-02	0.01307
-167.1672	0.00849	0.01037	1.19E-02	0.01304
-167.6677	0.00848	0.01035	1.18E-02	0.01301
-168.1682	0.00846	0.01032	1.18E-02	0.01297
-168.6687	0.00844	0.0103	1.18E-02	0.01294
-169.1692	0.00843	0.01028	1.18E-02	0.01291
-169.6697	0.00841	0.01026	1.17E-02	0.01288
-170.1702	0.0084	0.01024	1.17E-02	0.01284
-170.6707	0.00838	0.01022	1.17E-02	0.01281
-171.1712	0.00836	0.0102	1.16E-02	0.01278
-171.6717	0.00835	0.01017	1.16E-02	0.01275
-172.1722	0.00833	0.01015	1.16E-02	0.01272
-172.6727	0.00832	0.01013	1.16E-02	0.01269
-173.1732	0.0083	0.01011	1.15E-02	0.01265
-173.6737	0.00829	0.01009	1.15E-02	0.01262
-174.1742	0.00827	0.01007	1.15E-02	0.01259
-174.6747	0.00826	0.01005	1.15E-02	0.01256
-175.1752	0.00824	0.01003	1.14E-02	0.01253
-175.6757	0.00823	0.01001	1.14E-02	0.0125
-176.1762	0.00821	0.00999	1.14E-02	0.01247
-176.6767	0.0082	0.00997	1.14E-02	0.01244

-177.1772	0.00818	0.00995	1.13E-02	0.01241
-177.6777	0.00817	0.00993	1.13E-02	0.01238
-178.1782	0.00815	0.00991	1.13E-02	0.01235
-178.6787	0.00814	0.00989	1.13E-02	0.01232
-179.1792	0.00812	0.00987	1.12E-02	0.01229
-179.6797	0.00811	0.00985	1.12E-02	0.01226
-180.1802	0.00809	0.00983	1.12E-02	0.01223
-180.6807	0.00808	0.00981	1.12E-02	0.0122
-181.1812	0.00806	0.00979	1.11E-02	0.01217
-181.6817	0.00805	0.00977	1.11E-02	0.01214
-182.1822	0.00804	0.00975	1.11E-02	0.01211
-182.6827	0.00802	0.00973	1.11E-02	0.01208
-183.1832	0.00801	0.00971	1.10E-02	0.01205
-183.6837	0.00799	0.00969	1.10E-02	0.01202
-184.1842	0.00798	0.00967	1.10E-02	0.01199
-184.6847	0.00796	0.00965	1.10E-02	0.01196
-185.1852	0.00795	0.00963	1.09E-02	0.01193
-185.6857	0.00794	0.00961	1.09E-02	0.0119
-186.1862	0.00792	0.00959	1.09E-02	0.01188
-186.6867	0.00791	0.00957	1.09E-02	0.01185
-187.1872	0.00789	0.00955	1.08E-02	0.01182
-187.6877	0.00788	0.00954	1.08E-02	0.01179
-188.1882	0.00787	0.00952	1.08E-02	0.01176
-188.6887	0.00785	0.0095	1.08E-02	0.01173
-189.1892	0.00784	0.00948	1.07E-02	0.01171
-189.6897	0.00783	0.00946	1.07E-02	0.01168
-190.1902	0.00781	0.00944	1.07E-02	0.01165
-190.6907	0.0078	0.00942	1.07E-02	0.01162
-191.1912	0.00778	0.00941	1.07E-02	0.01159
-191.6917	0.00777	0.00939	1.06E-02	0.01157
-192.1922	0.00776	0.00937	1.06E-02	0.01154
-192.6927	0.00774	0.00935	1.06E-02	0.01151
-193.1932	0.00773	0.00933	1.06E-02	0.01148
-193.6937	0.00772	0.00931	1.05E-02	0.01146
-194.1942	0.0077	0.0093	1.05E-02	0.01143
-194.6947	0.00769	0.00928	1.05E-02	0.0114
-195.1952	0.00768	0.00926	1.05E-02	0.01138
-195.6957	0.00766	0.00924	1.05E-02	0.01135
-196.1962	0.00765	0.00922	1.04E-02	0.01132
-196.6967	0.00764	0.00921	1.04E-02	0.01129
-197.1972	0.00763	0.00919	1.04E-02	0.01127
-197.6977	0.00761	0.00917	1.04E-02	0.01124
-198.1982	0.0076	0.00915	1.03E-02	0.01121
-198.6987	0.00759	0.00914	1.03E-02	0.01119
-199.1992	0.00757	0.00912	1.03E-02	0.01116
-199.6997	0.00756	0.0091	1.03E-02	0.01114
-200.2002	0.00755	0.00908	1.03E-02	0.01111
-200.7007	0.00754	0.00907	1.02E-02	0.01108
-201.2012	0.00752	0.00905	1.02E-02	0.01106

-201.7017	0.00751	0.00903	1.02E-02	0.01103
-202.2022	0.0075	0.00902	1.02E-02	0.01101
-202.7027	0.00749	0.009	1.01E-02	0.01098
-203.2032	0.00747	0.00898	1.01E-02	0.01095
-203.7037	0.00746	0.00896	1.01E-02	0.01093
-204.2042	0.00745	0.00895	1.01E-02	0.0109
-204.7047	0.00744	0.00893	1.01E-02	0.01088
-205.2052	0.00742	0.00891	1.00E-02	0.01085
-205.7057	0.00741	0.0089	1.00E-02	0.01083
-206.2062	0.0074	0.00888	9.99E-03	0.0108
-206.7067	0.00739	0.00886	9.97E-03	0.01078
-207.2072	0.00737	0.00885	9.95E-03	0.01075
-207.7077	0.00736	0.00883	9.93E-03	0.01073
-208.2082	0.00735	0.00881	9.91E-03	0.0107
-208.7087	0.00734	0.0088	9.88E-03	0.01068
-209.2092	0.00733	0.00878	9.86E-03	0.01065
-209.7097	0.00731	0.00877	9.84E-03	0.01063
-210.2102	0.0073	0.00875	9.82E-03	0.0106
-210.7107	0.00729	0.00873	9.80E-03	0.01058
-211.2112	0.00728	0.00872	9.78E-03	0.01056
-211.7117	0.00727	0.0087	9.76E-03	0.01053
-212.2122	0.00726	0.00868	9.74E-03	0.01051
-212.7127	0.00724	0.00867	9.72E-03	0.01048
-213.2132	0.00723	0.00865	9.70E-03	0.01046
-213.7137	0.00722	0.00864	9.68E-03	0.01044
-214.2142	0.00721	0.00862	9.66E-03	0.01041
-214.7147	0.0072	0.0086	9.64E-03	0.01039
-215.2152	0.00719	0.00859	9.62E-03	0.01036
-215.7157	0.00717	0.00857	9.60E-03	0.01034
-216.2162	0.00716	0.00856	9.58E-03	0.01032
-216.7167	0.00715	0.00854	9.56E-03	0.01029
-217.2172	0.00714	0.00853	9.54E-03	0.01027
-217.7177	0.00713	0.00851	9.52E-03	0.01025
-218.2182	0.00712	0.0085	9.50E-03	0.01022
-218.7187	0.00711	0.00848	9.48E-03	0.0102
-219.2192	0.00709	0.00846	9.46E-03	0.01018
-219.7197	0.00708	0.00845	9.45E-03	0.01015
-220.2202	0.00707	0.00843	9.43E-03	0.01013
-220.7207	0.00706	0.00842	9.41E-03	0.01011
-221.2212	0.00705	0.0084	9.39E-03	0.01008
-221.7217	0.00704	0.00839	9.37E-03	0.01006
-222.2222	0.00703	0.00837	9.35E-03	0.01004
-222.7227	0.00702	0.00836	9.33E-03	0.01002
-223.2232	0.007	0.00834	9.31E-03	0.00999
-223.7237	0.00699	0.00833	9.29E-03	0.00997
-224.2242	0.00698	0.00831	9.27E-03	0.00995
-224.7247	0.00697	0.0083	9.25E-03	0.00993
-225.2252	0.00696	0.00828	9.24E-03	0.0099
-225.7257	0.00695	0.00827	9.22E-03	0.00988

-226.2262	0.00694	0.00825	9.20E-03	0.00986
-226.7267	0.00693	0.00824	9.18E-03	0.00984
-227.2272	0.00692	0.00822	9.16E-03	0.00982
-227.7277	0.00691	0.00821	9.14E-03	0.00979
-228.2282	0.0069	0.00819	9.13E-03	0.00977
-228.7287	0.00689	0.00818	9.11E-03	0.00975
-229.2292	0.00688	0.00817	9.09E-03	0.00973
-229.7297	0.00686	0.00815	9.07E-03	0.00971
-230.2302	0.00685	0.00814	9.05E-03	0.00968
-230.7307	0.00684	0.00812	9.03E-03	0.00966
-231.2312	0.00683	0.00811	9.02E-03	0.00964
-231.7317	0.00682	0.00809	9.00E-03	0.00962
-232.2322	0.00681	0.00808	8.98E-03	0.0096
-232.7327	0.0068	0.00807	8.96E-03	0.00958
-233.2332	0.00679	0.00805	8.94E-03	0.00956
-233.7337	0.00678	0.00804	8.93E-03	0.00954
-234.2342	0.00677	0.00802	8.91E-03	0.00951
-234.7347	0.00676	0.00801	8.89E-03	0.00949
-235.2352	0.00675	0.008	8.87E-03	0.00947
-235.7357	0.00674	0.00798	8.86E-03	0.00945
-236.2362	0.00673	0.00797	8.84E-03	0.00943
-236.7367	0.00672	0.00795	8.82E-03	0.00941
-237.2372	0.00671	0.00794	8.81E-03	0.00939
-237.7377	0.0067	0.00793	8.79E-03	0.00937
-238.2382	0.00669	0.00791	8.77E-03	0.00935
-238.7387	0.00668	0.0079	8.75E-03	0.00933
-239.2392	0.00667	0.00788	8.74E-03	0.00931
-239.7397	0.00666	0.00787	8.72E-03	0.00929
-240.2402	0.00665	0.00786	8.70E-03	0.00927
-240.7407	0.00664	0.00784	8.68E-03	0.00925
-241.2412	0.00663	0.00783	8.67E-03	0.00923
-241.7417	0.00662	0.00782	8.65E-03	0.00921
-242.2422	0.00661	0.0078	8.63E-03	0.00919
-242.7427	0.0066	0.00779	8.62E-03	0.00916
-243.2432	0.00659	0.00778	8.60E-03	0.00915
-243.7437	0.00658	0.00776	8.58E-03	0.00912
-244.2442	0.00657	0.00775	8.57E-03	0.00911
-244.7448	0.00656	0.00774	8.55E-03	0.00909
-245.2452	0.00655	0.00772	8.53E-03	0.00907
-245.7457	0.00654	0.00771	8.52E-03	0.00905
-246.2462	0.00653	0.0077	8.50E-03	0.00903
-246.7467	0.00652	0.00769	8.48E-03	0.00901
-247.2473	0.00651	0.00767	8.47E-03	0.00899
-247.7477	0.0065	0.00766	8.45E-03	0.00897
-248.2482	0.00649	0.00765	8.43E-03	0.00895
-248.7487	0.00648	0.00763	8.42E-03	0.00893
-249.2493	0.00647	0.00762	8.40E-03	0.00891
-249.7498	0.00647	0.00761	8.39E-03	0.00889
-250.2502	0.00645	0.00759	8.37E-03	0.00887

-250.7507	0.00645	0.00758	8.35E-03	0.00885
-251.2513	0.00644	0.00757	8.34E-03	0.00883
-251.7518	0.00643	0.00756	8.32E-03	0.00881
-252.2523	0.00642	0.00754	8.31E-03	0.0088
-252.7527	0.00641	0.00753	8.29E-03	0.00878
-253.2533	0.0064	0.00752	8.27E-03	0.00876
-253.7538	0.00639	0.00751	8.26E-03	0.00874
-254.2543	0.00638	0.00749	8.24E-03	0.00872
-254.7548	0.00637	0.00748	8.23E-03	0.0087
-255.2552	0.00636	0.00747	8.21E-03	0.00868
-255.7558	0.00635	0.00745	8.19E-03	0.00866
-256.2563	0.00634	0.00744	8.18E-03	0.00865
-256.7567	0.00634	0.00743	8.16E-03	0.00863
-257.2573	0.00633	0.00742	8.15E-03	0.00861
-257.7578	0.00632	0.00741	8.13E-03	0.00859
-258.2583	0.00631	0.00739	8.12E-03	0.00857
-258.7588	0.0063	0.00738	8.10E-03	0.00855
-259.2592	0.00629	0.00737	8.09E-03	0.00853
-259.7598	0.00628	0.00736	8.07E-03	0.00852
-260.2603	0.00627	0.00735	8.06E-03	0.0085
-260.7608	0.00626	0.00733	8.04E-03	0.00848
-261.2613	0.00625	0.00732	8.03E-03	0.00846
-261.7617	0.00624	0.00731	8.01E-03	0.00844
-262.2623	0.00624	0.0073	8.00E-03	0.00843
-262.7628	0.00623	0.00728	7.98E-03	0.00841
-263.2633	0.00622	0.00727	7.97E-03	0.00839
-263.7638	0.00621	0.00726	7.95E-03	0.00837
-264.2643	0.0062	0.00725	7.94E-03	0.00836
-264.7648	0.00619	0.00724	7.92E-03	0.00834
-265.2653	0.00618	0.00722	7.91E-03	0.00832
-265.7658	0.00617	0.00721	7.89E-03	0.0083
-266.2663	0.00617	0.0072	7.88E-03	0.00829
-266.7668	0.00616	0.00719	7.86E-03	0.00827
-267.2673	0.00615	0.00718	7.85E-03	0.00825
-267.7678	0.00614	0.00717	7.83E-03	0.00823
-268.2683	0.00613	0.00715	7.82E-03	0.00822
-268.7688	0.00612	0.00714	7.80E-03	0.0082
-269.2693	0.00611	0.00713	7.79E-03	0.00818
-269.7698	0.00611	0.00712	7.77E-03	0.00817
-270.2703	0.0061	0.00711	7.76E-03	0.00815
-270.7708	0.00609	0.0071	7.75E-03	0.00813
-271.2713	0.00608	0.00709	7.73E-03	0.00811
-271.7718	0.00607	0.00707	7.72E-03	0.0081
-272.2723	0.00606	0.00706	7.70E-03	0.00808
-272.7728	0.00606	0.00705	7.69E-03	0.00806
-273.2733	0.00605	0.00704	7.67E-03	0.00805
-273.7738	0.00604	0.00703	7.66E-03	0.00803
-274.2743	0.00603	0.00702	7.65E-03	0.00801
-274.7748	0.00602	0.00701	7.63E-03	0.008

-275.2753	0.00601	0.007	7.62E-03	0.00798
-275.7758	0.00601	0.00698	7.60E-03	0.00796
-276.2763	0.006	0.00697	7.59E-03	0.00795
-276.7768	0.00599	0.00696	7.58E-03	0.00793
-277.2773	0.00598	0.00695	7.56E-03	0.00791
-277.7778	0.00597	0.00694	7.55E-03	0.0079
-278.2783	0.00596	0.00693	7.53E-03	0.00788
-278.7788	0.00596	0.00692	7.52E-03	0.00786
-279.2793	0.00595	0.00691	7.51E-03	0.00785
-279.7798	0.00594	0.0069	7.49E-03	0.00783
-280.2803	0.00593	0.00688	7.48E-03	0.00782
-280.7808	0.00592	0.00687	7.47E-03	0.0078
-281.2813	0.00592	0.00686	7.45E-03	0.00778
-281.7818	0.00591	6.85E-03	7.44E-03	0.00777
-282.2823	0.0059	6.84E-03	7.43E-03	0.00775
-282.7828	0.00589	6.83E-03	7.41E-03	0.00773
-283.2833	0.00588	6.82E-03	7.40E-03	0.00772
-283.7838	0.00588	6.81E-03	7.39E-03	0.0077
-284.2843	0.00587	6.80E-03	7.37E-03	0.00769
-284.7848	0.00586	6.79E-03	7.36E-03	0.00767
-285.2853	0.00585	6.78E-03	7.35E-03	0.00766
-285.7858	0.00585	6.77E-03	7.33E-03	0.00764
-286.2863	0.00584	6.75E-03	7.32E-03	0.00762
-286.7868	0.00583	6.74E-03	7.30E-03	0.00761
-287.2873	0.00582	6.73E-03	7.29E-03	0.00759
-287.7878	0.00581	6.72E-03	7.28E-03	0.00758
-288.2883	0.00581	6.71E-03	7.26E-03	0.00756
-288.7888	0.0058	6.70E-03	7.25E-03	0.00755
-289.2893	0.00579	6.69E-03	7.24E-03	0.00753
-289.7898	0.00578	6.68E-03	7.23E-03	0.00752
-290.2903	0.00578	6.67E-03	7.21E-03	0.0075
-290.7908	0.00577	6.66E-03	7.20E-03	0.00749
-291.2913	0.00576	6.65E-03	7.19E-03	0.00747
-291.7918	0.00575	6.64E-03	7.18E-03	0.00746
-292.2923	0.00575	6.63E-03	7.16E-03	0.00744
-292.7928	0.00574	6.62E-03	7.15E-03	0.00743
-293.2933	0.00573	6.61E-03	7.14E-03	0.00741
-293.7938	0.00572	6.60E-03	7.12E-03	0.00739
-294.2943	0.00571	6.59E-03	7.11E-03	0.00738
-294.7948	0.00571	6.58E-03	7.10E-03	0.00737
-295.2953	0.0057	6.57E-03	7.09E-03	0.00735
-295.7958	0.00569	6.56E-03	7.07E-03	0.00734
-296.2963	0.00568	6.55E-03	7.06E-03	0.00732
-296.7968	0.00568	6.54E-03	7.05E-03	0.00731
-297.2973	0.00567	6.53E-03	7.03E-03	0.00729
-297.7978	0.00566	6.52E-03	7.02E-03	0.00728
-298.2983	0.00566	6.51E-03	7.01E-03	0.00726
-298.7988	0.00565	6.50E-03	7.00E-03	0.00725
-299.2993	0.00564	6.49E-03	6.98E-03	0.00723

-299.7998	0.00563	6.48E-03	6.97E-03	0.00722
-300.3003	0.00563	6.47E-03	6.96E-03	0.0072
-300.8008	0.00562	6.46E-03	6.95E-03	0.00719
-301.3013	0.00561	6.45E-03	6.94E-03	0.00718
-301.8018	0.0056	6.44E-03	6.92E-03	0.00716
-302.3023	0.0056	6.43E-03	6.91E-03	0.00715
-302.8028	0.00559	6.42E-03	6.90E-03	0.00713
-303.3033	0.00558	6.41E-03	6.89E-03	0.00712
-303.8038	0.00558	6.40E-03	6.88E-03	0.0071
-304.3043	0.00557	6.39E-03	6.86E-03	0.00709
-304.8048	0.00556	6.38E-03	6.85E-03	0.00707
-305.3053	0.00555	6.37E-03	6.84E-03	0.00706
-305.8058	0.00555	6.36E-03	6.83E-03	0.00705
-306.3063	0.00554	6.35E-03	6.81E-03	0.00703
-306.8068	0.00553	6.34E-03	6.80E-03	0.00702
-307.3073	0.00553	6.33E-03	6.79E-03	0.007
-307.8078	0.00552	6.32E-03	6.78E-03	0.00699
-308.3083	0.00551	6.31E-03	6.77E-03	0.00698
-308.8088	0.0055	6.30E-03	6.76E-03	0.00696
-309.3093	0.0055	6.29E-03	6.74E-03	0.00695
-309.8098	0.00549	6.28E-03	6.73E-03	0.00694
-310.3103	0.00548	6.28E-03	6.72E-03	0.00692
-310.8108	0.00548	6.26E-03	6.71E-03	0.00691
-311.3113	0.00547	6.26E-03	6.70E-03	0.00689
-311.8118	0.00546	6.25E-03	6.69E-03	0.00688
-312.3123	0.00545	6.24E-03	6.67E-03	0.00687
-312.8128	0.00545	6.23E-03	6.66E-03	0.00685
-313.3133	0.00544	6.22E-03	6.65E-03	0.00684
-313.8138	0.00543	6.21E-03	6.64E-03	0.00683
-314.3143	0.00543	6.20E-03	6.63E-03	0.00681
-314.8148	0.00542	6.19E-03	6.62E-03	0.0068
-315.3153	0.00541	6.18E-03	6.60E-03	0.00679
-315.8158	0.00541	6.17E-03	6.59E-03	0.00677
-316.3163	0.0054	6.16E-03	6.58E-03	0.00676
-316.8168	0.00539	6.15E-03	6.57E-03	0.00675
-317.3173	0.00539	6.15E-03	6.56E-03	0.00673
-317.8178	0.00538	6.14E-03	6.55E-03	0.00672
-318.3183	0.00537	6.13E-03	6.54E-03	0.00671
-318.8188	0.00537	6.12E-03	6.53E-03	0.00669
-319.3193	0.00536	6.11E-03	6.51E-03	0.00668
-319.8198	0.00535	6.10E-03	6.50E-03	0.00667
-320.3203	0.00535	6.09E-03	6.49E-03	0.00665
-320.8208	0.00534	6.08E-03	6.48E-03	0.00664
-321.3213	0.00533	6.07E-03	6.47E-03	0.00663
-321.8218	0.00533	6.06E-03	6.46E-03	0.00662
-322.3223	0.00532	6.05E-03	6.45E-03	0.0066
-322.8228	0.00531	6.05E-03	6.44E-03	0.00659
-323.3233	0.00531	6.04E-03	6.43E-03	0.00658
-323.8238	0.0053	6.03E-03	6.41E-03	0.00656

-324.3243	0.00529	6.02E-03	6.40E-03	0.00655
-324.8248	0.00529	6.01E-03	6.39E-03	0.00654
-325.3253	0.00528	6.00E-03	6.38E-03	0.00653
-325.8258	0.00527	5.99E-03	6.37E-03	0.00651
-326.3263	0.00527	5.98E-03	6.36E-03	0.0065
-326.8268	0.00526	5.98E-03	6.35E-03	0.00649
-327.3273	0.00526	5.97E-03	6.34E-03	0.00647
-327.8278	0.00525	5.96E-03	6.33E-03	0.00646
-328.3283	0.00524	5.95E-03	6.32E-03	0.00645
-328.8288	0.00524	5.94E-03	6.31E-03	0.00644
-329.3293	0.00523	5.93E-03	6.30E-03	0.00643
-329.8298	0.00522	5.92E-03	6.28E-03	0.00641
-330.3303	0.00522	5.92E-03	6.27E-03	0.0064
-330.8308	0.00521	5.91E-03	6.26E-03	0.00639
-331.3313	0.0052	5.90E-03	6.25E-03	0.00637
-331.8318	0.0052	5.89E-03	6.24E-03	0.00636
-332.3323	0.00519	5.88E-03	6.23E-03	0.00635
-332.8328	0.00518	5.87E-03	6.22E-03	0.00634
-333.3333	0.00518	5.86E-03	6.21E-03	0.00633
-333.8338	0.00517	5.86E-03	6.20E-03	0.00631
-334.3343	0.00517	5.85E-03	6.19E-03	0.0063
-334.8348	0.00516	5.84E-03	6.18E-03	0.00629
-335.3353	0.00515	5.83E-03	6.17E-03	0.00628
-335.8358	0.00515	5.82E-03	6.16E-03	0.00627
-336.3363	0.00514	5.81E-03	6.15E-03	0.00625
-336.8368	0.00513	5.81E-03	6.14E-03	0.00624
-337.3373	0.00513	5.80E-03	6.13E-03	0.00623
-337.8378	0.00512	5.79E-03	6.12E-03	0.00622
-338.3383	0.00512	5.78E-03	6.11E-03	0.00621
-338.8388	0.00511	5.77E-03	6.10E-03	0.00619
-339.3393	0.0051	5.76E-03	6.09E-03	0.00618
-339.8398	0.0051	5.75E-03	6.08E-03	0.00617
-340.3403	0.00509	5.75E-03	6.07E-03	0.00616
-340.8409	0.00509	5.74E-03	6.06E-03	0.00615
-341.3413	0.00508	5.73E-03	6.05E-03	0.00613
-341.8418	0.00507	5.72E-03	6.04E-03	0.00612
-342.3423	0.00507	5.71E-03	6.03E-03	0.00611
-342.8428	0.00506	5.71E-03	6.02E-03	0.0061
-343.3434	0.00505	5.70E-03	6.01E-03	0.00609
-343.8438	0.00505	5.69E-03	6.00E-03	0.00608
-344.3443	0.00504	5.68E-03	5.99E-03	0.00607
-344.8448	0.00504	5.67E-03	5.98E-03	0.00605
-345.3453	0.00503	5.66E-03	5.97E-03	0.00604
-345.8459	0.00503	5.66E-03	5.96E-03	0.00603
-346.3463	0.00502	5.65E-03	5.95E-03	0.00602
-346.8468	0.00501	5.64E-03	5.94E-03	0.00601
-347.3474	0.00501	5.63E-03	5.93E-03	0.006
-347.8478	0.005	5.62E-03	5.92E-03	0.00598
-348.3484	0.005	5.62E-03	5.91E-03	0.00597

-348.8488	0.00499	5.61E-03	5.90E-03	0.00596
-349.3493	0.00498	5.60E-03	5.89E-03	0.00595
-349.8499	0.00498	5.59E-03	5.88E-03	0.00594
-350.3503	0.00497	5.59E-03	5.87E-03	0.00593
-350.8509	0.00496	5.58E-03	5.86E-03	0.00592
-351.3513	0.00496	5.57E-03	5.85E-03	0.00591
-351.8518	0.00495	5.56E-03	5.84E-03	0.0059
-352.3524	0.00495	5.56E-03	5.83E-03	0.00588
-352.8528	0.00494	5.55E-03	5.82E-03	0.00587
-353.3534	0.00494	5.54E-03	5.81E-03	0.00586
-353.8539	0.00493	5.53E-03	5.80E-03	0.00585
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-355.3553	0.00491	5.51E-03	5.77E-03	0.00582
-355.8559	0.00491	5.50E-03	5.76E-03	0.00581
-356.3564	0.0049	5.49E-03	5.75E-03	0.0058
-356.8568	0.0049	5.49E-03	5.75E-03	0.00579
-357.3574	0.00489	5.48E-03	5.74E-03	0.00577
-357.8578	0.00488	5.47E-03	5.73E-03	0.00576
-358.3584	0.00488	5.46E-03	5.72E-03	0.00575
-358.8589	0.00487	5.45E-03	5.71E-03	0.00574
-359.3593	0.00487	5.45E-03	5.70E-03	0.00573
-359.8599	0.00486	5.44E-03	5.69E-03	0.00572
-360.3604	0.00486	5.43E-03	5.68E-03	0.00571
-360.8609	0.00485	5.43E-03	5.67E-03	0.0057
-361.3614	0.00485	5.42E-03	5.66E-03	0.00569
-361.8618	0.00484	5.41E-03	5.65E-03	0.00568
-362.3624	0.00483	5.40E-03	5.64E-03	0.00567
-362.8629	0.00483	5.39E-03	5.63E-03	0.00566
-363.3634	0.00482	5.39E-03	5.62E-03	0.00565
-363.8639	0.00482	5.38E-03	5.62E-03	0.00564
-364.3643	0.00481	5.37E-03	5.61E-03	0.00563
-364.8649	0.00481	5.37E-03	5.60E-03	0.00562
-365.3654	0.0048	5.36E-03	5.59E-03	0.0056
-365.8659	0.00479	5.35E-03	5.58E-03	0.0056
-366.3664	0.00479	5.34E-03	5.57E-03	0.00558
-366.8669	0.00478	5.34E-03	5.56E-03	0.00557
-367.3674	0.00478	5.33E-03	5.55E-03	0.00556
-367.8679	0.00477	5.32E-03	5.54E-03	0.00555
-368.3684	0.00477	5.31E-03	5.54E-03	0.00554
-368.8689	0.00476	5.31E-03	5.53E-03	0.00553
-369.3694	0.00476	5.30E-03	5.52E-03	0.00552
-369.8699	0.00475	5.29E-03	5.51E-03	0.00551
-370.3704	0.00475	5.28E-03	5.50E-03	0.0055
-370.8709	0.00474	5.28E-03	5.49E-03	0.00549
-371.3714	0.00473	5.27E-03	5.48E-03	0.00548
-371.8719	0.00473	5.26E-03	5.47E-03	0.00547
-372.3724	0.00472	5.26E-03	5.46E-03	0.00546
-372.8729	0.00472	5.25E-03	5.46E-03	0.00545

-373.3734	0.00471	5.24E-03	5.45E-03	0.00544
-373.8739	0.00471	5.23E-03	5.44E-03	0.00543
-374.3744	0.0047	5.23E-03	5.43E-03	0.00542
-374.8749	0.0047	5.22E-03	5.42E-03	0.00541
-375.3754	0.00469	5.21E-03	5.41E-03	0.0054
-375.8759	0.00469	5.21E-03	5.40E-03	0.00539
-376.3764	0.00468	5.20E-03	5.39E-03	0.00538
-376.8769	0.00468	5.19E-03	5.39E-03	0.00537
-377.3774	0.00467	5.19E-03	5.38E-03	0.00536
-377.8779	0.00467	5.18E-03	5.37E-03	0.00535
-378.3784	0.00466	5.17E-03	5.36E-03	0.00534
-378.8789	0.00466	5.16E-03	5.35E-03	0.00533
-379.3794	0.00465	5.16E-03	5.34E-03	0.00532
-379.8799	0.00464	5.15E-03	5.34E-03	0.00531
-380.3804	0.00464	5.14E-03	5.33E-03	0.0053
-380.8809	0.00464	5.14E-03	5.32E-03	0.00529
-381.3814	0.00463	5.13E-03	5.31E-03	0.00528
-381.8819	0.00462	5.12E-03	5.30E-03	0.00528
-382.3824	0.00462	5.12E-03	5.29E-03	0.00526
-382.8829	0.00461	5.11E-03	5.28E-03	0.00526
-383.3834	0.00461	5.10E-03	5.28E-03	0.00525
-383.8839	0.0046	5.09E-03	5.27E-03	0.00524
-384.3844	0.0046	5.09E-03	5.26E-03	0.00523
-384.8849	0.00459	5.08E-03	5.25E-03	0.00522
-385.3854	0.00459	5.07E-03	5.24E-03	0.00521
-385.8859	0.00458	5.07E-03	5.24E-03	0.0052
-386.3864	0.00458	5.06E-03	5.23E-03	0.00519
-386.8869	0.00457	5.05E-03	5.22E-03	0.00518
-387.3874	0.00457	5.05E-03	5.21E-03	0.00517
-387.8879	0.00456	5.04E-03	5.20E-03	0.00516
-388.3884	0.00456	5.03E-03	5.19E-03	0.00515
-388.8889	0.00455	5.03E-03	5.19E-03	0.00514
-389.3894	0.00455	5.02E-03	5.18E-03	0.00513
-389.8899	0.00454	5.01E-03	5.17E-03	0.00512
-390.3904	0.00454	5.01E-03	5.16E-03	0.00511
-390.8909	0.00453	5.00E-03	5.15E-03	0.00511
-391.3914	0.00453	4.99E-03	5.15E-03	0.0051
-391.8919	0.00452	4.99E-03	5.14E-03	0.00509
-392.3924	0.00452	4.98E-03	5.13E-03	0.00508
-392.8929	0.00451	4.97E-03	5.12E-03	0.00507
-393.3934	0.00451	4.97E-03	5.11E-03	0.00506
-393.8939	0.0045	4.96E-03	5.11E-03	0.00505
-394.3944	0.0045	4.96E-03	5.10E-03	0.00504
-394.8949	0.00449	4.95E-03	5.09E-03	0.00503
-395.3954	0.00449	4.94E-03	5.08E-03	0.00502
-395.8959	0.00448	4.94E-03	5.07E-03	0.00502
-396.3964	0.00448	4.93E-03	5.07E-03	0.00501
-396.8969	0.00447	4.92E-03	5.06E-03	0.005
-397.3974	0.00447	4.92E-03	5.05E-03	0.00499

-397.8979	0.00446	4.91E-03	5.04E-03	0.00498
-398.3984	0.00446	4.90E-03	5.04E-03	0.00497
-398.8989	0.00445	4.90E-03	5.03E-03	0.00496
-399.3994	0.00445	4.89E-03	5.02E-03	0.00495
-399.8999	0.00444	4.88E-03	5.01E-03	0.00494
-400.4004	0.00444	4.88E-03	5.00E-03	0.00493
-400.9009	0.00443	4.87E-03	5.00E-03	0.00493
-401.4014	0.00443	4.86E-03	4.99E-03	0.00492
-401.9019	0.00443	4.86E-03	4.98E-03	0.00491
-402.4024	0.00442	4.85E-03	4.97E-03	0.0049
-402.9029	0.00442	4.85E-03	4.96E-03	0.00489
-403.4034	0.00441	4.84E-03	4.96E-03	0.00488
-403.9039	0.00441	4.83E-03	4.95E-03	0.00487
-404.4044	0.0044	4.83E-03	4.94E-03	0.00487
-404.9049	0.0044	4.82E-03	4.94E-03	0.00486
-405.4054	0.00439	4.81E-03	4.93E-03	0.00485
-405.9059	0.00439	4.81E-03	4.92E-03	0.00484
-406.4064	0.00438	4.80E-03	4.91E-03	0.00483
-406.9069	0.00438	4.79E-03	4.90E-03	0.00482
-407.4074	0.00437	4.79E-03	4.90E-03	0.00481
-407.9079	0.00437	4.78E-03	4.89E-03	0.00481
-408.4084	0.00436	4.78E-03	4.88E-03	0.0048
-408.9089	0.00436	4.77E-03	4.87E-03	0.00479
-409.4094	0.00435	4.76E-03	4.87E-03	0.00478
-409.9099	0.00435	4.76E-03	4.86E-03	0.00477
-410.4104	0.00434	4.75E-03	4.85E-03	0.00476
-410.9109	0.00434	4.75E-03	4.85E-03	0.00475
-411.4114	0.00434	4.74E-03	4.84E-03	0.00475
-411.9119	0.00433	4.73E-03	4.83E-03	0.00474
-412.4124	0.00433	4.73E-03	4.82E-03	0.00473
-412.9129	0.00432	4.72E-03	4.81E-03	0.00472
-413.4134	0.00432	4.71E-03	4.81E-03	0.00471
-413.9139	0.00431	4.71E-03	4.80E-03	0.0047
-414.4144	0.00431	4.70E-03	4.79E-03	0.0047
-414.9149	0.0043	4.70E-03	4.79E-03	0.00469
-415.4154	0.0043	4.69E-03	4.78E-03	0.00468
-415.9159	0.00429	4.68E-03	4.77E-03	0.00467
-416.4164	0.00429	4.68E-03	4.76E-03	0.00466
-416.9169	0.00428	4.67E-03	4.76E-03	0.00465
-417.4174	0.00428	4.67E-03	4.75E-03	0.00465
-417.9179	0.00428	4.66E-03	4.74E-03	0.00464
-418.4184	0.00427	4.66E-03	4.73E-03	0.00463
-418.9189	0.00427	4.65E-03	4.73E-03	0.00462
-419.4194	0.00426	4.64E-03	4.72E-03	0.00461
-419.9199	0.00426	4.64E-03	4.71E-03	0.00461
-420.4204	0.00425	4.63E-03	4.71E-03	0.0046
-420.9209	0.00425	4.62E-03	4.70E-03	0.00459
-421.4214	0.00424	4.62E-03	4.69E-03	0.00458
-421.9219	0.00424	4.61E-03	4.69E-03	0.00457

-422.4224	0.00424	4.61E-03	4.68E-03	0.00457
-422.9229	0.00423	4.60E-03	4.67E-03	0.00456
-423.4234	0.00423	4.60E-03	4.66E-03	0.00455
-423.9239	0.00422	4.59E-03	4.66E-03	0.00454
-424.4244	0.00422	4.58E-03	4.65E-03	0.00453
-424.9249	0.00421	4.58E-03	4.64E-03	0.00453
-425.4254	0.00421	4.57E-03	4.64E-03	0.00452
-425.9259	0.00421	4.57E-03	4.63E-03	0.00451
-426.4264	0.0042	4.56E-03	4.62E-03	0.0045
-426.9269	0.0042	4.56E-03	4.62E-03	0.00449
-427.4274	0.00419	4.55E-03	4.61E-03	0.00449
-427.9279	0.00419	4.54E-03	4.60E-03	0.00448
-428.4284	0.00418	4.54E-03	4.60E-03	0.00447
-428.9289	0.00418	4.53E-03	4.59E-03	0.00446
-429.4294	0.00417	4.53E-03	4.58E-03	0.00446
-429.9299	0.00417	4.52E-03	4.57E-03	0.00445
-430.4304	0.00417	4.51E-03	4.57E-03	0.00444
-430.9309	0.00416	4.51E-03	4.56E-03	0.00443
-431.4314	0.00416	4.50E-03	4.55E-03	0.00443
-431.9319	0.00415	4.50E-03	4.55E-03	0.00442
-432.4324	0.00415	4.49E-03	4.54E-03	0.00441
-432.9329	0.00414	4.49E-03	4.53E-03	0.0044
-433.4334	0.00414	4.48E-03	4.53E-03	0.00439
-433.9339	0.00413	4.48E-03	4.52E-03	0.00439
-434.4344	0.00413	4.47E-03	4.51E-03	0.00438
-434.9349	0.00413	4.47E-03	4.51E-03	0.00437
-435.4354	0.00412	4.46E-03	4.50E-03	0.00436
-435.9359	0.00412	4.45E-03	4.49E-03	0.00436
-436.4364	0.00411	4.45E-03	4.49E-03	0.00435
-436.937	0.00411	4.44E-03	4.48E-03	0.00434
-437.4374	0.00411	4.44E-03	4.47E-03	0.00433
-437.9379	0.0041	4.43E-03	4.47E-03	0.00433
-438.4384	0.0041	4.43E-03	4.46E-03	0.00432
-438.9389	0.00409	4.42E-03	4.45E-03	0.00431
-439.4395	0.00409	4.41E-03	4.45E-03	0.0043
-439.9399	0.00409	4.41E-03	4.44E-03	0.0043
-440.4404	0.00408	4.40E-03	4.43E-03	0.00429
-440.9409	0.00408	4.40E-03	4.43E-03	0.00428
-441.4414	0.00407	4.39E-03	4.42E-03	0.00428
-441.942	0.00407	4.39E-03	4.41E-03	0.00427
-442.4424	0.00406	4.38E-03	4.41E-03	0.00426
-442.9429	0.00406	4.38E-03	4.40E-03	0.00425
-443.4435	0.00405	4.37E-03	4.39E-03	0.00425
-443.9439	0.00405	4.37E-03	4.39E-03	0.00424
-444.4445	0.00405	4.36E-03	4.38E-03	0.00423
-444.9449	0.00404	4.36E-03	4.38E-03	0.00422
-445.4454	0.00404	4.35E-03	4.37E-03	0.00422
-445.946	0.00404	4.34E-03	4.36E-03	0.00421
-446.4464	0.00403	4.34E-03	4.36E-03	0.0042

-446.947	0.00403	4.33E-03	4.35E-03	0.0042
-447.4474	0.00402	4.33E-03	4.34E-03	0.00419
-447.9479	0.00402	4.32E-03	4.34E-03	0.00418
-448.4485	0.00401	4.32E-03	4.33E-03	0.00417
-448.9489	0.00401	4.31E-03	4.32E-03	0.00417
-449.4495	0.00401	4.31E-03	4.32E-03	0.00416
-449.95	0.004	4.30E-03	4.31E-03	0.00415
-450.4504	0.004	4.30E-03	4.30E-03	0.00415
-450.951	0.00399	4.29E-03	4.30E-03	0.00414
-451.4514	0.00399	4.28E-03	4.29E-03	0.00413
-451.952	0.00399	4.28E-03	4.29E-03	0.00413
-452.4525	0.00398	4.28E-03	4.28E-03	0.00412
-452.9529	0.00398	4.27E-03	4.27E-03	0.00411
-453.4535	0.00397	4.26E-03	4.27E-03	0.0041
-453.9539	0.00397	4.26E-03	4.26E-03	0.0041
-454.4545	0.00397	4.25E-03	4.26E-03	0.00409
-454.955	0.00396	4.25E-03	4.25E-03	0.00408
-455.4554	0.00396	4.24E-03	4.24E-03	0.00408
-455.956	0.00395	4.24E-03	4.24E-03	0.00407
-456.4565	0.00395	4.23E-03	4.23E-03	0.00406
-456.957	0.00395	4.23E-03	4.22E-03	0.00406
-457.4575	0.00394	4.22E-03	4.22E-03	0.00405
-457.9579	0.00394	4.22E-03	4.21E-03	0.00404
-458.4585	0.00393	4.21E-03	4.21E-03	0.00404
-458.959	0.00393	4.21E-03	4.20E-03	0.00403
-459.4595	0.00393	4.20E-03	4.19E-03	0.00402
-459.96	0.00392	4.20E-03	4.19E-03	0.00402
-460.4604	0.00392	4.19E-03	4.18E-03	0.00401
-460.961	0.00392	4.19E-03	4.18E-03	0.004
-461.4615	0.00391	4.18E-03	4.17E-03	0.004
-461.962	0.00391	4.18E-03	4.16E-03	0.00399
-462.4625	0.0039	4.17E-03	4.16E-03	0.00398
-462.963	0.0039	4.17E-03	4.15E-03	0.00398
-463.4635	0.0039	4.16E-03	4.15E-03	0.00397
-463.964	0.00389	4.16E-03	4.14E-03	0.00396
-464.4645	0.00389	4.15E-03	4.13E-03	0.00396
-464.965	0.00388	4.15E-03	4.13E-03	0.00395
-465.4655	0.00388	4.14E-03	4.12E-03	0.00394
-465.966	0.00388	4.14E-03	4.12E-03	0.00394
-466.4665	0.00387	4.13E-03	4.11E-03	0.00393
-466.967	0.00387	4.13E-03	4.10E-03	0.00392
-467.4675	0.00386	4.12E-03	4.10E-03	0.00392
-467.968	0.00386	4.12E-03	4.09E-03	0.00391
-468.4685	0.00386	4.11E-03	4.09E-03	0.0039
-468.969	0.00385	4.11E-03	4.08E-03	0.0039
-469.4695	0.00385	4.10E-03	4.07E-03	0.00389
-469.97	0.00385	4.10E-03	4.07E-03	0.00388
-470.4705	0.00384	4.09E-03	4.06E-03	0.00388
-470.971	0.00384	4.09E-03	4.06E-03	0.00387

-471.4715	0.00383	4.08E-03	4.05E-03	0.00386
-471.972	0.00383	4.08E-03	4.05E-03	0.00386
-472.4725	0.00383	4.07E-03	4.04E-03	0.00385
-472.973	0.00382	4.07E-03	4.03E-03	0.00384
-473.4735	0.00382	4.06E-03	4.03E-03	0.00384
-473.974	0.00382	4.06E-03	4.02E-03	0.00383
-474.4745	0.00381	4.05E-03	4.02E-03	0.00382
-474.975	0.00381	4.05E-03	4.01E-03	0.00382
-475.4755	0.0038	4.04E-03	4.00E-03	0.00381
-475.976	0.0038	4.04E-03	4.00E-03	0.00381
-476.4765	0.0038	4.03E-03	3.99E-03	0.0038
-476.977	0.00379	4.03E-03	3.99E-03	0.00379
-477.4775	0.00379	4.02E-03	3.98E-03	0.00379
-477.978	0.00379	4.02E-03	3.98E-03	0.00378
-478.4785	0.00378	4.02E-03	3.97E-03	0.00378
-478.979	0.00378	4.01E-03	3.97E-03	0.00377
-479.4795	0.00378	4.00E-03	3.96E-03	0.00376
-479.98	0.00377	4.00E-03	3.96E-03	0.00376
-480.4805	0.00377	4.00E-03	3.95E-03	0.00375
-480.981	0.00376	3.99E-03	3.94E-03	0.00374
-481.4815	0.00376	3.99E-03	3.94E-03	0.00374
-481.982	0.00376	3.98E-03	3.93E-03	0.00373
-482.4825	0.00375	3.98E-03	3.93E-03	0.00373
-482.983	0.00375	3.97E-03	3.92E-03	0.00372
-483.4835	0.00375	3.97E-03	3.92E-03	0.00371
-483.984	0.00374	3.96E-03	3.91E-03	0.00371
-484.4845	0.00374	3.96E-03	3.91E-03	0.0037
-484.985	0.00374	3.95E-03	3.90E-03	0.00369
-485.4855	0.00373	3.95E-03	3.89E-03	0.00369
-485.986	0.00373	3.94E-03	3.89E-03	0.00368
-486.4865	0.00372	3.94E-03	3.88E-03	0.00368
-486.987	0.00372	3.93E-03	3.88E-03	0.00367
-487.4875	0.00372	3.93E-03	3.87E-03	0.00366
-487.988	0.00371	3.92E-03	3.87E-03	0.00366
-488.4885	0.00371	3.92E-03	3.86E-03	0.00365
-488.989	0.00371	3.92E-03	3.85E-03	0.00365
-489.4895	0.0037	3.91E-03	3.85E-03	0.00364
-489.99	0.0037	3.91E-03	3.84E-03	0.00364
-490.4905	0.00369	3.90E-03	3.84E-03	0.00363
-490.991	0.00369	3.90E-03	3.83E-03	0.00362
-491.4915	0.00369	3.89E-03	3.83E-03	0.00362
-491.992	0.00368	3.89E-03	3.82E-03	0.00361
-492.4925	0.00368	3.88E-03	3.82E-03	0.00361
-492.993	0.00368	3.88E-03	3.81E-03	0.0036
-493.4935	0.00367	3.88E-03	3.81E-03	0.00359
-493.994	0.00367	3.87E-03	3.80E-03	0.00359
-494.4945	0.00367	3.87E-03	3.80E-03	0.00358
-494.995	0.00366	3.86E-03	3.79E-03	0.00358
-495.4955	0.00366	3.86E-03	3.79E-03	0.00357

-495.996	0.00366	3.85E-03	3.78E-03	0.00356
-496.4965	0.00365	3.85E-03	3.78E-03	0.00356
-496.997	0.00365	3.84E-03	3.77E-03	0.00355
-497.4975	0.00365	3.84E-03	3.77E-03	0.00355
-497.998	0.00364	3.83E-03	3.76E-03	0.00354
-498.4985	0.00364	3.83E-03	3.75E-03	0.00353
-498.999	0.00364	3.82E-03	3.75E-03	0.00353
-499.4995	0.00363	3.82E-03	3.74E-03	0.00352
-500	0.00363	3.82E-03	3.74E-03	0.00352

Data for Figure 5c – Effect of grain size					
Depth (cm)	S/C_o (cm^3/g)				
	210 μm	360 μm	510 μm	660 μm	810 μm
0	0.0406	0.0406	0.0406	0.0406	0.0406
-0.5005	0.04026	0.0405	0.04056	0.04058	0.04059
-1.001	0.03944	0.04014	0.04037	0.04047	0.04052
-1.5015	0.03854	0.03965	0.04008	0.04029	0.0404
-2.002	0.03766	0.03912	0.03973	0.04004	0.04022
-2.5025	0.03683	0.03858	0.03935	0.03977	0.04002
-3.003	0.03607	0.03804	0.03897	0.03948	0.03979
-3.5035	0.03535	0.03753	0.03857	0.03917	0.03955
-4.004	0.03468	0.03702	0.03819	0.03887	0.0393
-4.5045	0.03406	0.03654	0.0378	0.03856	0.03905
-5.005	0.03348	0.03608	0.03743	0.03825	0.03879
-5.5055	0.03293	0.03563	0.03706	0.03794	0.03853
-6.006	0.03241	0.03521	0.03671	0.03764	0.03828
-6.5065	0.03192	0.0348	0.03636	0.03735	0.03802
-7.007	0.03146	0.0344	0.03602	0.03706	0.03777
-7.5075	0.03102	0.03402	0.03569	0.03677	0.03752
-8.008	0.0306	0.03365	0.03537	0.03649	0.03727
-8.5085	0.0302	0.0333	0.03506	0.03621	0.03702
-9.009	0.02982	0.03295	0.03476	0.03594	0.03678
-9.5095	0.02945	0.03262	0.03446	0.03567	0.03654
-10.01	0.0291	0.0323	0.03417	0.03541	0.03631
-10.5105	0.02876	0.03199	0.03389	0.03516	0.03607
-11.011	0.02844	0.03169	0.03361	0.03491	0.03585
-11.5115	0.02813	0.0314	0.03335	0.03466	0.03562
-12.012	0.02783	0.03111	0.03308	0.03442	0.0354
-12.5125	0.02754	0.03084	0.03283	0.03419	0.03518
-13.013	0.02725	0.03057	0.03258	0.03395	0.03497
-13.5135	0.02698	0.03031	0.03233	0.03373	0.03476
-14.014	0.02672	0.03006	0.03209	0.0335	0.03455
-14.5145	0.02646	0.02981	0.03186	0.03328	0.03434
-15.015	0.02622	0.02957	0.03163	0.03307	0.03414
-15.5155	0.02598	0.02933	0.03141	0.03286	0.03394
-16.016	0.02574	0.0291	0.03119	0.03265	0.03374
-16.5165	0.02552	0.02888	0.03097	0.03244	0.03355
-17.017	0.0253	0.02866	0.03076	0.03224	0.03336

-17.5175	0.02508	0.02845	0.03055	0.03205	0.03317
-18.018	0.02487	0.02824	0.03035	0.03185	0.03298
-18.5185	0.02467	0.02803	0.03015	0.03166	0.0328
-19.019	0.02447	0.02783	0.02996	0.03147	0.03262
-19.5195	0.02428	0.02763	0.02976	0.03129	0.03244
-20.02	0.02409	0.02744	0.02958	0.0311	0.03227
-20.5205	0.0239	0.02725	0.02939	0.03092	0.03209
-21.021	0.02372	0.02707	0.02921	0.03075	0.03192
-21.5215	0.02355	0.02689	0.02903	0.03057	0.03175
-22.022	0.02338	0.02671	0.02885	0.0304	0.03159
-22.5225	0.02321	0.02653	0.02868	0.03023	0.03142
-23.023	0.02304	0.02636	0.02851	0.03006	0.03126
-23.5235	0.02288	0.0262	0.02834	0.0299	0.0311
-24.024	0.02272	0.02603	0.02818	0.02974	0.03094
-24.5245	0.02257	0.02587	0.02801	0.02957	0.03078
-25.025	0.02241	0.02571	0.02785	0.02942	0.03063
-25.5255	0.02226	0.02555	0.0277	0.02926	0.03048
-26.026	0.02212	0.0254	0.02754	0.02911	0.03032
-26.5265	0.02197	0.02525	0.02739	0.02895	0.03018
-27.027	0.02183	0.0251	0.02724	0.02881	0.03003
-27.5275	0.0217	0.02495	0.02709	0.02866	0.02988
-28.028	0.02156	0.02481	0.02694	0.02851	0.02974
-28.5285	0.02143	0.02466	0.0268	0.02837	0.02959
-29.029	0.0213	0.02452	0.02665	0.02822	0.02945
-29.5295	0.02117	0.02439	0.02651	0.02808	0.02931
-30.03	0.02104	0.02425	0.02637	0.02794	0.02918
-30.5305	0.02091	0.02412	0.02624	0.02781	0.02904
-31.031	0.02079	0.02398	0.0261	0.02767	0.0289
-31.5315	0.02067	0.02385	0.02597	0.02754	0.02877
-32.032	0.02055	0.02373	0.02584	0.0274	0.02864
-32.5325	0.02044	0.0236	0.02571	0.02727	0.02851
-33.033	0.02032	0.02348	0.02558	0.02714	0.02838
-33.5335	0.02021	0.02335	0.02545	0.02701	0.02825
-34.034	0.0201	0.02323	0.02532	0.02689	0.02812
-34.5345	0.01999	0.02311	0.0252	0.02676	0.02799
-35.035	0.01988	0.02299	0.02508	0.02664	0.02787
-35.5355	0.01977	0.02288	0.02496	0.02651	0.02775
-36.036	0.01967	0.02276	0.02484	0.02639	0.02762
-36.5365	0.01956	0.02265	0.02472	0.02627	0.0275
-37.037	0.01946	0.02254	0.0246	0.02615	0.02738
-37.5375	0.01936	0.02243	0.02449	0.02603	0.02726
-38.038	0.01926	0.02232	0.02437	0.02592	0.02715
-38.5385	0.01916	0.02221	0.02426	0.0258	0.02703
-39.039	0.01907	0.0221	0.02415	0.02569	0.02691
-39.5395	0.01897	0.022	0.02404	0.02557	0.0268
-40.04	0.01888	0.02189	0.02393	0.02546	0.02669
-40.5405	0.01879	0.02179	0.02382	0.02535	0.02657
-41.041	0.01869	0.02169	0.02371	0.02524	0.02646
-41.5415	0.0186	0.02159	0.02361	0.02513	0.02635

-42.042	0.01851	0.02149	0.0235	0.02502	0.02624
-42.5425	0.01843	0.02139	0.0234	0.02492	0.02613
-43.043	0.01834	0.02129	0.0233	0.02481	0.02603
-43.5435	0.01825	0.0212	0.02319	0.02471	0.02592
-44.044	0.01817	0.0211	0.02309	0.0246	0.02581
-44.5445	0.01808	0.02101	0.02299	0.0245	0.02571
-45.045	0.018	0.02091	0.0229	0.0244	0.0256
-45.5455	0.01792	0.02082	0.0228	0.0243	0.0255
-46.0461	0.01784	0.02073	0.0227	0.0242	0.0254
-46.5466	0.01776	0.02064	0.02261	0.0241	0.0253
-47.0471	0.01768	0.02055	0.02251	0.024	0.0252
-47.5476	0.0176	0.02046	0.02242	0.0239	0.0251
-48.048	0.01752	0.02038	0.02232	0.0238	0.025
-48.5485	0.01745	0.02029	0.02223	0.02371	0.0249
-49.049	0.01737	0.0202	0.02214	0.02361	0.0248
-49.5495	0.0173	0.02012	0.02205	0.02352	0.0247
-50.05	0.01722	0.02004	0.02196	0.02343	0.02461
-50.5505	0.01715	0.01995	0.02187	0.02333	0.02451
-51.051	0.01708	0.01987	0.02178	0.02324	0.02442
-51.5516	0.01701	0.01979	0.0217	0.02315	0.02433
-52.0521	0.01694	0.01971	0.02161	0.02306	0.02423
-52.5526	0.01687	0.01963	0.02152	0.02297	0.02414
-53.0531	0.0168	0.01955	0.02144	0.02288	0.02405
-53.5536	0.01673	0.01947	0.02135	0.02279	0.02396
-54.0541	0.01666	0.01939	0.02127	0.02271	0.02387
-54.5546	0.01659	0.01932	0.02119	0.02262	0.02378
-55.055	0.01653	0.01924	0.02111	0.02253	0.02369
-55.5556	0.01646	0.01917	0.02102	0.02245	0.0236
-56.0561	0.01639	0.01909	0.02094	0.02236	0.02351
-56.5566	0.01633	0.01902	0.02086	0.02228	0.02343
-57.0571	0.01627	0.01894	0.02078	0.0222	0.02334
-57.5576	0.0162	0.01887	0.02071	0.02211	0.02325
-58.0581	0.01614	0.0188	0.02063	0.02203	0.02317
-58.5586	0.01608	0.01873	0.02055	0.02195	0.02308
-59.0591	0.01602	0.01866	0.02047	0.02187	0.023
-59.5596	0.01595	0.01858	0.0204	0.02179	0.02292
-60.0601	0.01589	0.01851	0.02032	0.02171	0.02283
-60.5606	0.01583	0.01845	0.02025	0.02163	0.02275
-61.0611	0.01577	0.01838	0.02017	0.02155	0.02267
-61.5616	0.01572	0.01831	0.0201	0.02147	0.02259
-62.0621	0.01566	0.01824	0.02002	0.02139	0.02251
-62.5626	0.0156	0.01817	0.01995	0.02132	0.02243
-63.0631	0.01554	0.01811	0.01988	0.02124	0.02235
-63.5636	0.01549	0.01804	0.01981	0.02117	0.02227
-64.0641	0.01543	0.01798	0.01974	0.02109	0.02219
-64.5646	0.01537	0.01791	0.01967	0.02102	0.02211
-65.0651	0.01532	0.01785	0.0196	0.02094	0.02204
-65.5656	0.01526	0.01778	0.01953	0.02087	0.02196
-66.0661	0.01521	0.01772	0.01946	0.02079	0.02188

-66.5666	0.01516	0.01766	0.01939	0.02072	0.02181
-67.0671	0.0151	0.0176	0.01932	0.02065	0.02173
-67.5676	0.01505	0.01754	0.01925	0.02058	0.02166
-68.0681	0.015	0.01747	0.01919	0.02051	0.02158
-68.5686	0.01494	0.01741	0.01912	0.02044	0.02151
-69.0691	0.01489	0.01735	0.01905	0.02037	0.02143
-69.5696	0.01484	0.01729	0.01899	0.0203	0.02136
-70.0701	0.01479	0.01723	0.01892	0.02023	0.02129
-70.5706	0.01474	0.01717	0.01886	0.02016	0.02122
-71.0711	0.01469	0.01712	0.0188	0.02009	0.02114
-71.5716	0.01464	0.01706	0.01873	0.02002	0.02107
-72.0721	0.01459	0.017	0.01867	0.01995	0.021
-72.5726	0.01454	0.01694	0.01861	0.01989	0.02093
-73.0731	0.0145	0.01689	0.01854	0.01982	0.02086
-73.5736	0.01445	0.01683	0.01848	0.01975	0.02079
-74.0741	0.0144	0.01677	0.01842	0.01969	0.02072
-74.5746	0.01435	0.01672	0.01836	0.01962	0.02066
-75.0751	0.01431	0.01666	0.0183	0.01956	0.02059
-75.5756	0.01426	0.01661	0.01824	0.01949	0.02052
-76.0761	0.01421	0.01655	0.01818	0.01943	0.02045
-76.5766	0.01417	0.0165	0.01812	0.01936	0.02038
-77.0771	0.01412	0.01645	0.01806	0.0193	0.02032
-77.5776	0.01408	0.01639	0.018	0.01924	0.02025
-78.0781	0.01403	0.01634	0.01794	0.01918	0.02019
-78.5786	0.01399	0.01629	0.01788	0.01911	0.02012
-79.0791	0.01394	0.01624	0.01782	0.01905	0.02006
-79.5796	0.0139	0.01618	0.01777	0.01899	0.01999
-80.0801	0.01385	0.01613	0.01771	0.01893	0.01993
-80.5806	0.01381	0.01608	0.01765	0.01887	0.01986
-81.0811	0.01377	0.01603	0.0176	0.01881	0.0198
-81.5816	0.01373	0.01598	0.01754	0.01875	0.01973
-82.0821	0.01368	0.01593	0.01749	0.01869	0.01967
-82.5826	0.01364	0.01588	0.01743	0.01863	0.01961
-83.0831	0.0136	0.01583	0.01738	0.01857	0.01955
-83.5836	0.01356	0.01578	0.01732	0.01851	0.01949
-84.0841	0.01352	0.01573	0.01727	0.01845	0.01942
-84.5846	0.01348	0.01568	0.01721	0.0184	0.01936
-85.0851	0.01343	0.01563	0.01716	0.01834	0.0193
-85.5856	0.01339	0.01559	0.01711	0.01828	0.01924
-86.0861	0.01335	0.01554	0.01705	0.01822	0.01918
-86.5866	0.01331	0.01549	0.017	0.01817	0.01912
-87.0871	0.01328	0.01544	0.01695	0.01811	0.01906
-87.5876	0.01324	0.0154	0.0169	0.01805	0.019
-88.0881	0.0132	0.01535	0.01685	0.018	0.01894
-88.5886	0.01316	0.01531	0.01679	0.01794	0.01888
-89.0891	0.01312	0.01526	0.01674	0.01789	0.01883
-89.5896	0.01308	0.01521	0.01669	0.01783	0.01877
-90.0901	0.01304	0.01517	0.01664	0.01778	0.01871
-90.5906	0.01301	0.01512	0.01659	0.01773	0.01865

-91.0911	0.01297	0.01508	0.01654	0.01767	0.0186
-91.5916	0.01293	0.01503	0.01649	0.01762	0.01854
-92.0921	0.01289	0.01499	0.01644	0.01756	0.01848
-92.5926	0.01286	0.01495	0.01639	0.01751	0.01843
-93.0931	0.01282	0.0149	0.01634	0.01746	0.01837
-93.5936	0.01278	0.01486	0.0163	0.01741	0.01831
-94.0941	0.01275	0.01482	0.01625	0.01735	0.01826
-94.5946	0.01271	0.01477	0.0162	0.0173	0.0182
-95.0951	0.01268	0.01473	0.01615	0.01725	0.01815
-95.5956	0.01264	0.01469	0.01611	0.0172	0.0181
-96.0961	0.01261	0.01465	0.01606	0.01715	0.01804
-96.5966	0.01257	0.0146	0.01601	0.0171	0.01799
-97.0971	0.01254	0.01456	0.01596	1.71E-02	0.01793
-97.5976	0.0125	0.01452	0.01592	1.70E-02	0.01788
-98.0981	0.01247	0.01448	0.01587	1.70E-02	0.01783
-98.5986	0.01243	0.01444	0.01583	1.69E-02	0.01777
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-100.1001	0.01233	0.01432	0.01569	1.68E-02	0.01762
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-101.1011	0.01226	0.01424	0.0156	1.67E-02	0.01751
-101.6016	0.01223	0.0142	0.01556	1.66E-02	0.01746
-102.1021	0.0122	0.01416	0.01551	1.66E-02	0.01741
-102.6026	0.01217	0.01412	0.01547	1.65E-02	0.01736
-103.1031	0.01213	0.01408	0.01542	1.65E-02	0.01731
-103.6036	0.0121	0.01404	0.01538	1.64E-02	0.01726
-104.1041	0.01207	0.014	0.01534	1.64E-02	0.01721
-104.6046	0.01204	0.01396	0.01529	1.63E-02	0.01716
-105.1051	0.01201	0.01393	0.01525	1.63E-02	0.01711
-105.6056	0.01197	0.01389	0.01521	1.62E-02	0.01706
-106.1061	0.01194	0.01385	0.01517	1.62E-02	0.01701
-106.6066	0.01191	0.01381	0.01512	1.61E-02	0.01696
-107.1071	0.01188	0.01378	0.01508	1.61E-02	0.01691
-107.6076	0.01185	0.01374	0.01504	1.61E-02	0.01687
-108.1081	0.01182	0.0137	0.015	1.60E-02	0.01682
-108.6086	0.01179	0.01366	0.01496	1.60E-02	0.01677
-109.1091	0.01176	0.01363	0.01492	1.59E-02	0.01672
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-110.1101	0.0117	0.01356	0.01484	1.58E-02	0.01663
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-111.1111	0.01164	0.01348	0.01476	1.57E-02	0.01653
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-112.1121	0.01158	0.01341	0.01468	1.57E-02	0.01644
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-113.1131	0.01152	0.01334	0.0146	1.56E-02	0.01635
-113.6136	0.01149	0.01331	0.01456	1.55E-02	0.0163
-114.1141	0.01146	0.01327	0.01452	1.55E-02	0.01626
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-122.1221	0.01103	0.01274	0.01392	1.48E-02	0.01556
-122.6226	0.011	0.01271	0.01388	1.48E-02	0.01551
-123.1231	0.01097	0.01268	0.01385	1.47E-02	0.01547
-123.6236	0.01095	0.01265	0.01381	1.47E-02	0.01543
-124.1241	0.01092	0.01261	0.01377	1.47E-02	0.01539
-124.6246	0.0109	0.01258	0.01374	1.46E-02	0.01535
-125.1251	0.01087	0.01255	0.0137	1.46E-02	0.01531
-125.6256	0.01084	0.01252	0.01367	1.46E-02	0.01526
-126.1261	0.01082	0.01249	0.01363	1.45E-02	0.01522
-126.6266	0.01079	0.01246	0.0136	1.45E-02	0.01518
-127.1271	0.01077	0.01243	0.01356	1.44E-02	0.01514
-127.6276	0.01074	0.0124	0.01353	1.44E-02	0.0151
-128.1281	0.01072	0.01237	0.0135	1.44E-02	0.01506
-128.6286	0.01069	0.01234	0.01346	1.43E-02	0.01502
-129.1291	0.01067	0.01231	0.01343	1.43E-02	0.01498
-129.6296	0.01065	0.01228	0.01339	1.43E-02	0.01494
-130.1301	0.01062	0.01225	0.01336	1.42E-02	0.0149
-130.6306	0.0106	0.01222	0.01333	1.42E-02	0.01486
-131.1311	0.01057	0.01219	0.01329	1.41E-02	0.01482
-131.6316	0.01055	0.01216	0.01326	1.41E-02	0.01478
-132.1321	0.01052	0.01213	0.01323	1.41E-02	0.01475
-132.6326	0.0105	0.0121	0.01319	1.40E-02	0.01471
-133.1331	0.01048	0.01207	0.01316	1.40E-02	0.01467
-133.6336	0.01045	0.01204	0.01313	1.40E-02	0.01463
-134.1341	0.01043	0.01202	0.0131	1.39E-02	0.01459
-134.6346	0.01041	0.01199	0.01306	1.39E-02	0.01455
-135.1351	0.01038	0.01196	0.01303	1.39E-02	0.01452
-135.6356	0.01036	0.01193	0.013	1.38E-02	0.01448
-136.1361	0.01034	0.0119	0.01297	1.38E-02	0.01444
-136.6366	0.01031	0.01187	0.01294	1.38E-02	0.0144
-137.1371	0.01029	0.01185	0.0129	1.37E-02	0.01437
-137.6376	0.01027	0.01182	0.01287	1.37E-02	0.01433
-138.1381	0.01025	0.01179	0.01284	1.36E-02	0.01429
-138.6386	0.01022	0.01176	0.01281	1.36E-02	0.01425
-139.1391	0.0102	0.01174	0.01278	1.36E-02	0.01422
-139.6396	0.01018	0.01171	0.01275	1.35E-02	0.01418

-140.1401	0.01016	0.01168	0.01272	1.35E-02	0.01414
-140.6406	0.01013	0.01165	0.01269	1.35E-02	0.01411
-141.1411	0.01011	0.01163	0.01266	1.34E-02	0.01407
-141.6416	0.01009	0.0116	0.01263	1.34E-02	0.01404
-142.1421	0.01007	0.01157	0.01259	1.34E-02	0.014
-142.6426	0.01005	0.01155	0.01256	1.33E-02	0.01396
-143.1431	0.01002	0.01152	0.01253	1.33E-02	0.01393
-143.6436	0.01	0.01149	0.0125	1.33E-02	0.01389
-144.1441	0.00998	0.01147	0.01247	1.32E-02	0.01386
-144.6446	0.00996	0.01144	0.01244	1.32E-02	0.01382
-145.1451	0.00994	0.01142	0.01242	1.32E-02	0.01379
-145.6456	0.00992	0.01139	0.01239	1.31E-02	0.01375
-146.1461	0.0099	0.01136	0.01236	1.31E-02	0.01372
-146.6467	0.00988	0.01134	0.01233	1.31E-02	0.01368
-147.1471	0.00985	0.01131	0.0123	1.31E-02	0.01365
-147.6476	0.00983	0.01129	0.01227	1.30E-02	0.01362
-148.1481	0.00981	0.01126	0.01224	1.30E-02	0.01358
-148.6487	0.00979	0.01124	0.01221	1.30E-02	0.01355
-149.1492	0.00977	0.01121	0.01218	1.29E-02	0.01351
-149.6496	0.00975	0.01119	0.01215	1.29E-02	0.01348
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-151.6517	0.00967	0.01109	0.01204	1.28E-02	0.01335
-152.1521	0.00965	0.01106	0.01201	1.27E-02	0.01331
-152.6526	0.00963	0.01104	0.01199	1.27E-02	0.01328
-153.1532	0.00961	0.01101	0.01196	1.27E-02	0.01325
-153.6537	0.00959	0.01099	0.01193	1.26E-02	0.01321
-154.1542	0.00957	0.01096	0.0119	1.26E-02	0.01318
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-155.6557	0.00951	0.01089	0.01182	1.25E-02	0.01308
-156.1562	0.00949	0.01087	0.01179	1.25E-02	0.01305
-156.6567	0.00947	0.01084	0.01177	1.25E-02	0.01302
-157.1572	0.00945	0.01082	0.01174	1.24E-02	0.01299
-157.6577	0.00943	0.0108	0.01171	1.24E-02	0.01296
-158.1582	0.00941	0.01077	0.01169	1.24E-02	0.01292
-158.6587	0.0094	0.01075	0.01166	1.23E-02	0.01289
-159.1592	0.00938	0.01073	0.01163	1.23E-02	0.01286
-159.6597	0.00936	0.0107	0.01161	1.23E-02	0.01283
-160.1602	0.00934	0.01068	0.01158	1.23E-02	0.0128
-160.6607	0.00932	0.01066	0.01155	1.22E-02	0.01277
-161.1612	0.0093	0.01064	0.01153	1.22E-02	0.01274
-161.6617	0.00928	0.01061	0.0115	1.22E-02	0.01271
-162.1622	0.00926	0.01059	0.01148	1.21E-02	0.01268
-162.6627	0.00925	0.01057	0.01145	1.21E-02	0.01264
-163.1632	0.00923	0.01054	0.01142	1.21E-02	0.01261
-163.6637	0.00921	0.01052	0.0114	1.21E-02	0.01258
-164.1642	0.00919	0.0105	0.01137	1.20E-02	0.01255

-164.6647	0.00917	0.01048	0.01135	1.20E-02	0.01252
-165.1652	0.00915	0.01046	0.01132	1.20E-02	0.01249
-165.6657	0.00914	0.01043	0.0113	1.20E-02	0.01246
-166.1662	0.00912	0.01041	0.01127	1.19E-02	0.01243
-166.6667	0.0091	0.01039	0.01125	1.19E-02	0.0124
-167.1672	0.00908	0.01037	0.01122	1.19E-02	0.01237
-167.6677	0.00907	0.01035	0.0112	1.18E-02	0.01234
-168.1682	0.00905	0.01032	0.01117	1.18E-02	0.01231
-168.6687	0.00903	0.0103	0.01115	1.18E-02	0.01229
-169.1692	0.00901	0.01028	0.01112	1.18E-02	0.01226
-169.6697	0.00899	0.01026	0.0111	1.17E-02	0.01223
-170.1702	0.00898	0.01024	0.01107	1.17E-02	0.0122
-170.6707	0.00896	0.01022	0.01105	1.17E-02	0.01217
-171.1712	0.00894	0.0102	0.01103	1.17E-02	0.01214
-171.6717	0.00893	0.01017	0.011	1.16E-02	0.01211
-172.1722	0.00891	0.01015	0.01098	1.16E-02	0.01208
-172.6727	0.00889	0.01013	0.01095	1.16E-02	0.01205
-173.1732	0.00887	0.01011	0.01093	1.15E-02	0.01203
-173.6737	0.00886	0.01009	0.01091	1.15E-02	0.012
-174.1742	0.00884	0.01007	0.01088	1.15E-02	0.01197
-174.6747	0.00882	0.01005	0.01086	1.15E-02	0.01194
-175.1752	0.00881	0.01003	0.01084	1.14E-02	0.01191
-175.6757	0.00879	0.01001	0.01081	1.14E-02	0.01189
-176.1762	0.00877	0.00999	0.01079	1.14E-02	0.01186
-176.6767	0.00876	0.00997	0.01076	1.14E-02	0.01183
-177.1772	0.00874	0.00995	0.01074	1.13E-02	0.0118
-177.6777	0.00872	0.00993	0.01072	1.13E-02	0.01178
-178.1782	0.00871	0.00991	0.0107	1.13E-02	0.01175
-178.6787	0.00869	0.00989	0.01067	1.13E-02	0.01172
-179.1792	0.00868	0.00987	0.01065	1.12E-02	0.01169
-179.6797	0.00866	0.00985	0.01063	1.12E-02	0.01167
-180.1802	0.00864	0.00983	0.0106	1.12E-02	0.01164
-180.6807	0.00863	0.00981	0.01058	1.12E-02	0.01161
-181.1812	0.00861	0.00979	0.01056	1.11E-02	0.01159
-181.6817	0.00859	0.00977	0.01054	1.11E-02	0.01156
-182.1822	0.00858	0.00975	0.01051	1.11E-02	0.01153
-182.6827	0.00856	0.00973	0.01049	1.11E-02	0.01151
-183.1832	0.00855	0.00971	0.01047	1.10E-02	0.01148
-183.6837	0.00853	0.00969	0.01045	1.10E-02	0.01145
-184.1842	0.00852	0.00967	0.01043	1.10E-02	0.01143
-184.6847	0.0085	0.00965	0.0104	1.10E-02	0.0114
-185.1852	0.00848	0.00963	0.01038	1.09E-02	0.01137
-185.6857	0.00847	0.00961	0.01036	1.09E-02	0.01135
-186.1862	0.00845	0.00959	0.01034	1.09E-02	0.01132
-186.6867	0.00844	0.00957	0.01032	1.09E-02	0.0113
-187.1872	0.00842	0.00955	0.01029	1.08E-02	0.01127
-187.6877	0.00841	0.00954	0.01027	1.08E-02	0.01125
-188.1882	0.00839	0.00952	0.01025	1.08E-02	0.01122
-188.6887	0.00838	0.0095	0.01023	1.08E-02	0.01119

-189.1892	0.00836	0.00948	0.01021	1.08E-02	0.01117
-189.6897	0.00835	0.00946	0.01019	1.07E-02	0.01114
-190.1902	0.00833	0.00944	0.01017	1.07E-02	0.01112
-190.6907	0.00832	0.00942	0.01015	1.07E-02	0.01109
-191.1912	0.0083	0.00941	0.01012	1.07E-02	0.01107
-191.6917	0.00829	0.00939	0.0101	1.06E-02	0.01104
-192.1922	0.00827	0.00937	0.01008	1.06E-02	0.01102
-192.6927	0.00826	0.00935	0.01006	1.06E-02	0.01099
-193.1932	0.00824	0.00933	0.01004	1.06E-02	0.01097
-193.6937	0.00823	0.00931	0.01002	1.05E-02	0.01094
-194.1942	0.00821	0.0093	0.01	1.05E-02	0.01092
-194.6947	0.0082	0.00928	0.00998	1.05E-02	0.01089
-195.1952	0.00818	0.00926	0.00996	1.05E-02	0.01087
-195.6957	0.00817	0.00924	0.00994	1.05E-02	0.01085
-196.1962	0.00815	0.00922	0.00992	1.04E-02	0.01082
-196.6967	0.00814	0.00921	0.0099	1.04E-02	0.0108
-197.1972	0.00813	0.00919	0.00988	1.04E-02	0.01077
-197.6977	0.00811	0.00917	0.00986	1.04E-02	0.01075
-198.1982	0.0081	0.00915	0.00984	1.03E-02	0.01073
-198.6987	0.00808	0.00914	0.00982	1.03E-02	0.0107
-199.1992	0.00807	0.00912	0.0098	1.03E-02	0.01068
-199.6997	0.00805	0.0091	0.00978	1.03E-02	0.01065
-200.2002	0.00804	0.00908	0.00976	1.03E-02	0.01063
-200.7007	0.00803	0.00907	0.00974	1.02E-02	0.01061
-201.2012	0.00801	0.00905	0.00972	1.02E-02	0.01058
-201.7017	0.008	0.00903	0.0097	1.02E-02	0.01056
-202.2022	0.00798	0.00902	0.00968	1.02E-02	0.01054
-202.7027	0.00797	0.009	0.00966	1.01E-02	0.01051
-203.2032	0.00796	0.00898	0.00964	1.01E-02	0.01049
-203.7037	0.00794	0.00896	0.00962	1.01E-02	0.01047
-204.2042	0.00793	0.00895	0.0096	1.01E-02	0.01044
-204.7047	0.00792	0.00893	0.00958	1.01E-02	0.01042
-205.2052	0.0079	0.00891	0.00956	1.00E-02	0.0104
-205.7057	0.00789	0.0089	0.00954	1.00E-02	0.01038
-206.2062	0.00787	0.00888	0.00952	9.99E-03	0.01035
-206.7067	0.00786	0.00886	0.0095	9.97E-03	0.01033
-207.2072	0.00785	0.00885	0.00949	9.95E-03	0.01031
-207.7077	0.00783	0.00883	0.00947	9.93E-03	0.01029
-208.2082	0.00782	0.00881	0.00945	9.91E-03	0.01026
-208.7087	0.00781	0.0088	0.00943	9.89E-03	0.01024
-209.2092	0.00779	0.00878	0.00941	9.87E-03	0.01022
-209.7097	0.00778	0.00877	0.00939	9.85E-03	0.0102
-210.2102	0.00777	0.00875	0.00937	9.83E-03	0.01017
-210.7107	0.00775	0.00873	0.00936	9.80E-03	0.01015
-211.2112	0.00774	0.00872	0.00934	9.79E-03	0.01013
-211.7117	0.00773	0.0087	0.00932	9.76E-03	0.01011
-212.2122	0.00771	0.00868	0.0093	9.74E-03	0.01009
-212.7127	0.0077	0.00867	0.00928	9.72E-03	0.01006
-213.2132	0.00769	0.00865	0.00926	9.70E-03	0.01004

-213.7137	0.00768	0.00864	0.00924	9.68E-03	0.01002
-214.2142	0.00766	0.00862	0.00923	9.66E-03	0.01
-214.7147	0.00765	0.0086	0.00921	9.64E-03	0.00998
-215.2152	0.00764	0.00859	0.00919	9.62E-03	0.00996
-215.7157	0.00762	0.00857	0.00917	9.60E-03	0.00993
-216.2162	0.00761	0.00856	0.00915	9.58E-03	0.00991
-216.7167	0.0076	0.00854	0.00914	9.57E-03	0.00989
-217.2172	0.00759	0.00853	0.00912	9.54E-03	0.00987
-217.7177	0.00757	0.00851	0.0091	9.53E-03	0.00985
-218.2182	0.00756	0.0085	0.00908	9.51E-03	0.00983
-218.7187	0.00755	0.00848	0.00907	9.49E-03	0.00981
-219.2192	0.00754	0.00846	0.00905	9.47E-03	0.00979
-219.7197	0.00752	0.00845	0.00903	9.45E-03	0.00977
-220.2202	0.00751	0.00843	0.00901	9.43E-03	0.00975
-220.7207	0.0075	0.00842	0.009	9.41E-03	0.00972
-221.2212	0.00749	0.0084	0.00898	9.39E-03	0.0097
-221.7217	0.00747	0.00839	0.00896	9.37E-03	0.00968
-222.2222	0.00746	0.00837	0.00894	9.35E-03	0.00966
-222.7227	0.00745	0.00836	0.00893	9.33E-03	0.00964
-223.2232	0.00744	0.00834	0.00891	9.31E-03	0.00962
-223.7237	0.00743	0.00833	0.00889	9.29E-03	0.0096
-224.2242	0.00741	0.00831	0.00888	9.28E-03	0.00958
-224.7247	0.0074	0.0083	0.00886	9.26E-03	0.00956
-225.2252	0.00739	0.00828	0.00884	9.24E-03	0.00954
-225.7257	0.00738	0.00827	0.00882	9.22E-03	0.00952
-226.2262	0.00737	0.00825	0.00881	9.20E-03	0.0095
-226.7267	0.00735	0.00824	0.00879	9.18E-03	0.00948
-227.2272	0.00734	0.00822	0.00877	9.16E-03	0.00946
-227.7277	0.00733	0.00821	0.00876	9.15E-03	0.00944
-228.2282	0.00732	0.00819	0.00874	9.13E-03	0.00942
-228.7287	0.00731	0.00818	0.00873	9.11E-03	0.0094
-229.2292	0.00729	0.00817	0.00871	9.09E-03	0.00938
-229.7297	0.00728	0.00815	0.00869	9.07E-03	0.00936
-230.2302	0.00727	0.00814	0.00868	9.06E-03	0.00934
-230.7307	0.00726	0.00812	0.00866	9.04E-03	0.00932
-231.2312	0.00725	0.00811	0.00864	9.02E-03	0.0093
-231.7317	0.00724	0.00809	0.00863	9.00E-03	0.00928
-232.2322	0.00722	0.00808	0.00861	8.98E-03	0.00927
-232.7327	0.00721	0.00807	0.00859	8.97E-03	0.00924
-233.2332	0.0072	0.00805	0.00858	8.95E-03	0.00923
-233.7337	0.00719	0.00804	0.00856	8.93E-03	0.00921
-234.2342	0.00718	0.00802	0.00855	8.91E-03	0.00919
-234.7347	0.00717	0.00801	0.00853	8.90E-03	0.00917
-235.2352	0.00716	0.008	0.00851	8.88E-03	0.00915
-235.7357	0.00715	0.00798	0.0085	8.86E-03	0.00913
-236.2362	0.00713	0.00797	0.00848	8.84E-03	0.00911
-236.7367	0.00712	0.00795	0.00847	8.82E-03	0.00909
-237.2372	0.00711	0.00794	0.00845	8.81E-03	0.00907
-237.7377	0.0071	0.00793	0.00843	8.79E-03	0.00906

-238.2382	0.00709	0.00791	0.00842	8.77E-03	0.00904
-238.7387	0.00708	0.0079	0.0084	8.76E-03	0.00902
-239.2392	0.00707	0.00788	0.00839	8.74E-03	0.009
-239.7397	0.00705	0.00787	0.00837	8.72E-03	0.00898
-240.2402	0.00704	0.00786	0.00836	8.70E-03	0.00896
-240.7407	0.00703	0.00784	0.00834	8.69E-03	0.00894
-241.2412	0.00702	0.00783	0.00833	8.67E-03	0.00893
-241.7417	0.00701	0.00782	0.00831	8.65E-03	0.00891
-242.2422	0.007	0.0078	0.0083	8.64E-03	0.00889
-242.7427	0.00699	0.00779	0.00828	8.62E-03	0.00887
-243.2432	0.00698	0.00778	0.00826	8.60E-03	0.00885
-243.7437	0.00697	0.00776	0.00825	8.59E-03	0.00884
-244.2442	0.00696	0.00775	0.00823	8.57E-03	0.00882
-244.7448	0.00695	0.00774	0.00822	8.55E-03	0.0088
-245.2452	0.00694	0.00772	0.0082	8.54E-03	0.00878
-245.7457	0.00692	0.00771	0.00819	8.52E-03	0.00876
-246.2462	0.00691	0.0077	0.00817	8.50E-03	0.00875
-246.7467	0.0069	0.00769	0.00816	8.49E-03	0.00873
-247.2473	0.00689	0.00767	0.00814	8.47E-03	0.00871
-247.7477	0.00688	0.00766	0.00813	8.45E-03	0.00869
-248.2482	0.00687	0.00765	0.00812	8.44E-03	0.00868
-248.7487	0.00686	0.00763	0.0081	8.42E-03	0.00866
-249.2493	0.00685	0.00762	0.00809	8.40E-03	0.00864
-249.7498	0.00684	0.00761	0.00807	8.39E-03	0.00862
-250.2502	0.00683	0.00759	0.00806	8.37E-03	0.00861
-250.7507	0.00682	0.00758	0.00804	8.36E-03	0.00859
-251.2513	0.00681	0.00757	0.00803	8.34E-03	0.00857
-251.7518	0.0068	0.00756	0.00801	8.33E-03	0.00855
-252.2523	0.00679	0.00754	0.008	8.31E-03	0.00854
-252.7527	0.00678	0.00753	0.00798	8.29E-03	0.00852
-253.2533	0.00677	0.00752	0.00797	8.28E-03	0.0085
-253.7538	0.00676	0.00751	0.00795	8.26E-03	0.00848
-254.2543	0.00675	0.00749	0.00794	8.25E-03	0.00847
-254.7548	0.00674	0.00748	0.00793	8.23E-03	0.00845
-255.2552	0.00673	0.00747	0.00791	8.21E-03	0.00843
-255.7558	0.00672	0.00745	0.0079	8.20E-03	0.00842
-256.2563	0.00671	0.00744	0.00788	8.18E-03	0.0084
-256.7567	0.0067	0.00743	0.00787	8.17E-03	0.00838
-257.2573	0.00669	0.00742	0.00785	8.15E-03	0.00837
-257.7578	0.00668	0.00741	0.00784	8.14E-03	0.00835
-258.2583	0.00667	0.00739	0.00783	8.12E-03	0.00833
-258.7588	0.00666	0.00738	0.00781	8.10E-03	0.00832
-259.2592	0.00665	0.00737	0.0078	8.09E-03	0.0083
-259.7598	0.00664	0.00736	0.00779	8.08E-03	0.00829
-260.2603	0.00663	0.00735	0.00777	8.06E-03	0.00827
-260.7608	0.00662	0.00733	0.00776	8.04E-03	0.00825
-261.2613	0.00661	0.00732	0.00774	8.03E-03	0.00823
-261.7617	0.0066	0.00731	0.00773	8.01E-03	0.00822
-262.2623	0.00659	0.0073	0.00772	8.00E-03	0.0082

-262.7628	0.00658	0.00728	0.0077	7.98E-03	0.00819
-263.2633	0.00657	0.00727	0.00769	7.97E-03	0.00817
-263.7638	0.00656	0.00726	0.00768	7.95E-03	0.00815
-264.2643	0.00655	0.00725	0.00766	7.94E-03	0.00814
-264.7648	0.00654	0.00724	0.00765	7.92E-03	0.00812
-265.2653	0.00653	0.00722	0.00764	7.91E-03	0.00811
-265.7658	0.00652	0.00721	0.00762	7.89E-03	0.00809
-266.2663	0.00651	0.0072	0.00761	7.88E-03	0.00807
-266.7668	0.0065	0.00719	0.00759	7.87E-03	0.00806
-267.2673	0.00649	0.00718	0.00758	7.85E-03	0.00804
-267.7678	0.00648	0.00717	0.00757	7.84E-03	0.00803
-268.2683	0.00647	0.00715	0.00756	7.82E-03	0.00801
-268.7688	0.00646	0.00714	0.00754	7.81E-03	0.008
-269.2693	0.00645	0.00713	0.00753	7.79E-03	0.00798
-269.7698	0.00645	0.00712	0.00752	7.78E-03	0.00796
-270.2703	0.00643	0.00711	0.0075	7.76E-03	0.00795
-270.7708	0.00643	0.0071	0.00749	7.75E-03	0.00793
-271.2713	0.00642	0.00709	0.00748	7.73E-03	0.00792
-271.7718	0.00641	0.00707	0.00746	7.72E-03	0.0079
-272.2723	0.0064	0.00706	0.00745	7.71E-03	0.00789
-272.7728	0.00639	0.00705	0.00744	7.69E-03	0.00787
-273.2733	0.00638	0.00704	0.00742	7.68E-03	0.00786
-273.7738	0.00637	0.00703	0.00741	7.66E-03	0.00784
-274.2743	0.00636	0.00702	0.0074	7.65E-03	0.00783
-274.7748	0.00635	0.00701	0.00739	7.64E-03	0.00781
-275.2753	0.00634	0.007	0.00737	7.62E-03	0.0078
-275.7758	0.00633	0.00698	0.00736	7.61E-03	0.00778
-276.2763	0.00632	0.00697	0.00735	7.59E-03	0.00777
-276.7768	0.00632	0.00696	0.00733	7.58E-03	0.00775
-277.2773	0.00631	0.00695	0.00732	7.56E-03	0.00774
-277.7778	0.0063	0.00694	0.00731	7.55E-03	0.00772
-278.2783	0.00629	0.00693	0.0073	7.54E-03	0.00771
-278.7788	0.00628	0.00692	0.00728	7.52E-03	0.00769
-279.2793	0.00627	0.00691	0.00727	7.51E-03	0.00768
-279.7798	0.00626	0.0069	0.00726	7.50E-03	0.00766
-280.2803	0.00625	0.00688	0.00725	7.48E-03	0.00765
-280.7808	0.00624	0.00687	0.00723	7.47E-03	0.00763
-281.2813	0.00624	0.00686	0.00722	7.45E-03	0.00762
-281.7818	0.00623	0.00685	0.00721	7.44E-03	0.0076
-282.2823	0.00622	0.00684	0.0072	7.43E-03	0.00759
-282.7828	0.00621	0.00683	0.00719	7.41E-03	0.00757
-283.2833	0.0062	0.00682	0.00717	7.40E-03	0.00756
-283.7838	0.00619	0.00681	0.00716	7.39E-03	0.00754
-284.2843	0.00618	0.0068	0.00715	7.37E-03	0.00753
-284.7848	0.00617	0.00679	0.00714	7.36E-03	0.00752
-285.2853	0.00617	0.00678	0.00712	7.35E-03	0.0075
-285.7858	0.00616	0.00677	0.00711	7.33E-03	0.00749
-286.2863	0.00615	0.00675	0.0071	7.32E-03	0.00747
-286.7868	0.00614	0.00674	0.00709	7.31E-03	0.00746

-287.2873	0.00613	0.00673	0.00707	7.30E-03	0.00745
-287.7878	0.00612	0.00672	0.00706	7.28E-03	0.00743
-288.2883	0.00611	0.00671	0.00705	7.27E-03	0.00742
-288.7888	0.0061	0.0067	0.00704	7.26E-03	0.0074
-289.2893	0.0061	0.00669	0.00703	7.24E-03	0.00739
-289.7898	0.00609	0.00668	0.00702	7.23E-03	0.00737
-290.2903	0.00608	0.00667	0.007	7.22E-03	0.00736
-290.7908	0.00607	0.00666	0.00699	7.20E-03	0.00735
-291.2913	0.00606	0.00665	0.00698	7.19E-03	0.00733
-291.7918	0.00605	0.00664	0.00697	7.18E-03	0.00732
-292.2923	0.00605	0.00663	0.00696	7.17E-03	0.0073
-292.7928	0.00604	0.00662	0.00694	7.15E-03	0.00729
-293.2933	0.00603	0.00661	0.00693	7.14E-03	0.00728
-293.7938	0.00602	0.0066	0.00692	7.13E-03	0.00726
-294.2943	0.00601	0.00659	0.00691	7.11E-03	0.00725
-294.7948	0.006	0.00658	0.0069	7.10E-03	0.00724
-295.2953	0.006	0.00657	0.00689	7.09E-03	0.00722
-295.7958	0.00599	0.00656	0.00688	7.08E-03	0.00721
-296.2963	0.00598	0.00655	0.00686	7.06E-03	0.0072
-296.7968	0.00597	0.00654	0.00685	7.05E-03	0.00718
-297.2973	0.00596	0.00653	0.00684	7.04E-03	0.00717
-297.7978	0.00595	0.00652	0.00683	7.03E-03	0.00715
-298.2983	0.00595	0.00651	0.00682	7.01E-03	0.00714
-298.7988	0.00594	0.0065	0.00681	7.00E-03	0.00713
-299.2993	0.00593	0.00649	0.0068	6.99E-03	0.00711
-299.7998	0.00592	0.00648	0.00679	6.98E-03	0.0071
-300.3003	0.00591	0.00647	0.00677	6.96E-03	0.00709
-300.8008	0.0059	0.00646	0.00676	6.95E-03	0.00708
-301.3013	0.0059	0.00645	0.00675	6.94E-03	0.00706
-301.8018	0.00589	0.00644	0.00674	6.93E-03	0.00705
-302.3023	0.00588	0.00643	0.00673	6.92E-03	0.00704
-302.8028	0.00587	0.00642	0.00672	6.90E-03	0.00702
-303.3033	0.00587	0.00641	0.00671	6.89E-03	0.00701
-303.8038	0.00586	0.0064	0.0067	6.88E-03	0.007
-304.3043	0.00585	0.00639	0.00669	6.87E-03	0.00698
-304.8048	0.00584	0.00638	0.00667	6.85E-03	0.00697
-305.3053	0.00583	0.00637	0.00666	6.84E-03	0.00696
-305.8058	0.00583	0.00636	0.00665	6.83E-03	0.00695
-306.3063	0.00582	0.00635	0.00664	6.82E-03	0.00693
-306.8068	0.00581	0.00634	0.00663	6.81E-03	0.00692
-307.3073	0.0058	0.00633	0.00662	6.79E-03	0.00691
-307.8078	0.00579	0.00632	0.00661	6.78E-03	0.00689
-308.3083	0.00579	0.00631	0.0066	6.77E-03	0.00688
-308.8088	0.00578	0.0063	0.00659	6.76E-03	0.00687
-309.3093	0.00577	0.00629	0.00658	6.75E-03	0.00686
-309.8098	0.00576	0.00628	0.00656	6.73E-03	0.00684
-310.3103	0.00576	0.00628	0.00655	6.72E-03	0.00683
-310.8108	0.00575	0.00626	0.00654	6.71E-03	0.00682
-311.3113	0.00574	0.00626	0.00653	6.70E-03	0.00681

-311.8118	0.00573	0.00625	0.00652	6.69E-03	0.00679
-312.3123	0.00573	0.00624	0.00651	6.68E-03	0.00678
-312.8128	0.00572	0.00623	0.0065	6.66E-03	0.00677
-313.3133	0.00571	0.00622	0.00649	6.65E-03	0.00676
-313.8138	0.0057	0.00621	0.00648	6.64E-03	0.00674
-314.3143	0.0057	0.0062	0.00647	6.63E-03	0.00673
-314.8148	0.00569	0.00619	0.00646	6.62E-03	0.00672
-315.3153	0.00568	0.00618	0.00645	6.61E-03	0.00671
-315.8158	0.00567	0.00617	0.00644	6.60E-03	0.0067
-316.3163	0.00566	0.00616	0.00643	6.58E-03	0.00668
-316.8168	0.00566	0.00615	0.00642	6.57E-03	0.00667
-317.3173	0.00565	0.00615	0.00641	6.56E-03	0.00666
-317.8178	0.00564	0.00614	0.0064	6.55E-03	0.00665
-318.3183	0.00564	0.00613	0.00639	6.54E-03	0.00663
-318.8188	0.00563	0.00612	0.00638	6.53E-03	0.00662
-319.3193	0.00562	0.00611	0.00637	6.52E-03	0.00661
-319.8198	0.00561	0.0061	0.00636	6.51E-03	0.0066
-320.3203	0.0056	0.00609	0.00634	6.49E-03	0.00659
-320.8208	0.0056	0.00608	0.00634	6.48E-03	0.00657
-321.3213	0.00559	0.00607	0.00632	6.47E-03	0.00656
-321.8218	0.00558	0.00606	0.00632	6.46E-03	0.00655
-322.3223	0.00558	0.00605	0.0063	6.45E-03	0.00654
-322.8228	0.00557	0.00605	0.0063	6.44E-03	0.00653
-323.3233	0.00556	0.00604	0.00628	6.43E-03	0.00652
-323.8238	0.00555	0.00603	0.00628	6.42E-03	0.0065
-324.3243	0.00555	0.00602	0.00626	6.41E-03	0.00649
-324.8248	0.00554	0.00601	0.00626	6.40E-03	0.00648
-325.3253	0.00553	0.006	0.00624	6.39E-03	0.00647
-325.8258	0.00553	0.00599	0.00624	6.37E-03	0.00646
-326.3263	0.00552	0.00598	0.00622	6.36E-03	0.00645
-326.8268	0.00551	0.00598	0.00622	6.35E-03	0.00643
-327.3273	0.0055	0.00597	0.0062	6.34E-03	0.00642
-327.8278	0.0055	0.00596	0.0062	6.33E-03	0.00641
-328.3283	0.00549	0.00595	0.00619	6.32E-03	0.0064
-328.8288	0.00548	0.00594	0.00618	6.31E-03	0.00639
-329.3293	0.00547	0.00593	0.00617	6.30E-03	0.00638
-329.8298	0.00547	0.00592	0.00616	6.29E-03	0.00636
-330.3303	0.00546	0.00592	0.00615	6.28E-03	0.00635
-330.8308	0.00545	0.00591	0.00614	6.27E-03	0.00634
-331.3313	0.00545	0.0059	0.00613	6.26E-03	0.00633
-331.8318	0.00544	0.00589	0.00612	6.25E-03	0.00632
-332.3323	0.00543	0.00588	0.00611	6.24E-03	0.00631
-332.8328	0.00543	0.00587	0.0061	6.22E-03	0.0063
-333.3333	0.00542	0.00586	0.00609	6.21E-03	0.00628
-333.8338	0.00541	0.00586	0.00608	6.20E-03	0.00627
-334.3343	0.00541	0.00585	0.00607	6.19E-03	0.00626
-334.8348	0.0054	0.00584	0.00606	6.18E-03	0.00625
-335.3353	0.00539	0.00583	0.00605	6.17E-03	0.00624
-335.8358	0.00539	0.00582	0.00604	6.16E-03	0.00623

-336.3363	0.00538	0.00581	0.00603	6.15E-03	0.00622
-336.8368	0.00537	0.00581	0.00602	6.14E-03	0.00621
-337.3373	0.00536	0.0058	0.00601	6.13E-03	0.0062
-337.8378	0.00536	0.00579	0.006	6.12E-03	0.00619
-338.3383	0.00535	0.00578	0.00599	6.11E-03	0.00617
-338.8388	0.00534	0.00577	0.00598	6.10E-03	0.00616
-339.3393	0.00534	0.00576	0.00598	6.09E-03	0.00615
-339.8398	0.00533	0.00575	0.00597	6.08E-03	0.00614
-340.3403	0.00532	0.00575	0.00596	6.07E-03	0.00613
-340.8409	0.00532	0.00574	0.00595	6.06E-03	0.00612
-341.3413	0.00531	0.00573	0.00594	6.05E-03	0.00611
-341.8418	0.0053	0.00572	0.00593	6.04E-03	0.0061
-342.3423	0.0053	0.00571	0.00592	6.03E-03	0.00609
-342.8428	0.00529	0.00571	0.00591	6.02E-03	0.00608
-343.3434	0.00528	0.0057	0.0059	6.01E-03	0.00607
-343.8438	0.00528	0.00569	0.00589	6.00E-03	0.00606
-344.3443	0.00527	0.00568	0.00588	5.99E-03	0.00605
-344.8448	0.00526	0.00567	0.00587	5.98E-03	0.00604
-345.3453	0.00526	0.00566	0.00587	5.97E-03	0.00602
-345.8459	0.00525	0.00566	0.00586	5.96E-03	0.00601
-346.3463	0.00524	0.00565	0.00585	5.95E-03	0.006
-346.8468	0.00524	0.00564	0.00584	5.94E-03	0.00599
-347.3474	0.00523	0.00563	0.00583	5.93E-03	0.00598
-347.8478	0.00522	0.00562	0.00582	5.92E-03	0.00597
-348.3484	0.00522	0.00562	0.00581	5.91E-03	0.00596
-348.8488	0.00521	0.00561	0.0058	5.90E-03	0.00595
-349.3493	0.0052	0.0056	0.00579	5.89E-03	0.00594
-349.8499	0.0052	0.00559	0.00578	5.88E-03	0.00593
-350.3503	0.00519	0.00559	0.00577	5.87E-03	0.00592
-350.8509	0.00519	0.00558	0.00577	5.86E-03	0.00591
-351.3513	0.00518	0.00557	0.00576	5.85E-03	0.0059
-351.8518	0.00517	0.00556	0.00575	5.84E-03	0.00589
-352.3524	0.00517	0.00556	0.00574	5.83E-03	0.00588
-352.8528	0.00516	0.00555	0.00573	5.82E-03	0.00587
-353.3534	0.00515	0.00554	0.00572	5.81E-03	0.00586
-353.8539	0.00515	0.00553	0.00571	5.81E-03	0.00585
-354.3543	0.00514	0.00552	0.0057	5.79E-03	0.00584
-354.8549	0.00513	0.00552	0.0057	5.79E-03	0.00583
-355.3553	0.00513	0.00551	0.00569	5.78E-03	0.00582
-355.8559	0.00512	0.0055	0.00568	5.77E-03	0.00581
-356.3564	0.00511	0.00549	0.00567	5.76E-03	0.0058
-356.8568	0.00511	0.00549	0.00566	5.75E-03	0.00579
-357.3574	0.0051	0.00548	0.00565	5.74E-03	0.00578
-357.8578	0.0051	0.00547	0.00564	5.73E-03	0.00577
-358.3584	0.00509	0.00546	0.00564	5.72E-03	0.00576
-358.8589	0.00508	0.00545	0.00563	5.71E-03	0.00575
-359.3593	0.00508	0.00545	0.00562	5.70E-03	0.00574
-359.8599	0.00507	0.00544	0.00561	5.69E-03	0.00573
-360.3604	0.00507	0.00543	0.0056	5.68E-03	0.00572

-360.8609	0.00506	0.00543	0.00559	5.67E-03	0.00571
-361.3614	0.00505	0.00542	0.00558	5.66E-03	0.0057
-361.8618	0.00505	0.00541	0.00558	5.66E-03	0.00569
-362.3624	0.00504	0.0054	0.00557	5.65E-03	0.00568
-362.8629	0.00503	0.00539	0.00556	5.64E-03	0.00567
-363.3634	0.00503	0.00539	0.00555	5.63E-03	0.00566
-363.8639	0.00502	0.00538	0.00554	5.62E-03	0.00565
-364.3643	0.00502	0.00537	0.00553	5.61E-03	0.00564
-364.8649	0.00501	0.00537	0.00553	5.60E-03	0.00563
-365.3654	0.005	0.00536	0.00552	5.59E-03	0.00562
-365.8659	0.005	0.00535	0.00551	5.58E-03	0.00561
-366.3664	0.00499	0.00534	0.0055	5.57E-03	0.0056
-366.8669	0.00498	0.00534	0.00549	5.56E-03	0.00559
-367.3674	0.00498	0.00533	0.00548	5.56E-03	0.00558
-367.8679	0.00497	0.00532	0.00548	5.55E-03	0.00557
-368.3684	0.00497	0.00531	0.00547	5.54E-03	0.00556
-368.8689	0.00496	0.00531	0.00546	5.53E-03	0.00555
-369.3694	0.00496	0.0053	0.00545	5.52E-03	0.00554
-369.8699	0.00495	0.00529	0.00544	5.51E-03	0.00554
-370.3704	0.00494	0.00528	0.00543	5.50E-03	0.00553
-370.8709	0.00494	0.00528	0.00543	5.49E-03	0.00552
-371.3714	0.00493	0.00527	0.00542	5.49E-03	0.00551
-371.8719	0.00492	0.00526	0.00541	5.48E-03	0.0055
-372.3724	0.00492	0.00526	0.0054	5.47E-03	0.00549
-372.8729	0.00491	0.00525	0.00539	5.46E-03	0.00548
-373.3734	0.00491	0.00524	0.00539	5.45E-03	0.00547
-373.8739	0.0049	0.00523	0.00538	5.44E-03	0.00546
-374.3744	0.0049	0.00523	0.00537	5.43E-03	0.00545
-374.8749	0.00489	0.00522	0.00536	5.42E-03	0.00544
-375.3754	0.00488	0.00521	0.00536	5.41E-03	0.00543
-375.8759	0.00488	0.00521	0.00535	5.41E-03	0.00542
-376.3764	0.00487	0.0052	0.00534	5.40E-03	0.00541
-376.8769	0.00487	0.00519	0.00533	5.39E-03	0.00541
-377.3774	0.00486	0.00519	0.00532	5.38E-03	0.0054
-377.8779	0.00485	0.00518	0.00532	5.37E-03	0.00539
-378.3784	0.00485	0.00517	0.00531	5.36E-03	0.00538
-378.8789	0.00484	0.00516	0.0053	5.36E-03	0.00537
-379.3794	0.00484	0.00516	0.00529	5.35E-03	0.00536
-379.8799	0.00483	0.00515	0.00528	5.34E-03	0.00535
-380.3804	0.00483	0.00514	0.00528	5.33E-03	0.00534
-380.8809	0.00482	0.00514	0.00527	5.32E-03	0.00533
-381.3814	0.00481	0.00513	0.00526	5.31E-03	0.00532
-381.8819	0.00481	0.00512	0.00525	5.30E-03	0.00532
-382.3824	0.0048	0.00512	0.00524	5.30E-03	0.00531
-382.8829	0.0048	0.00511	0.00524	5.29E-03	0.0053
-383.3834	0.00479	0.0051	0.00523	5.28E-03	0.00529
-383.8839	0.00479	0.00509	0.00522	5.27E-03	0.00528
-384.3844	0.00478	0.00509	0.00522	5.26E-03	0.00527
-384.8849	0.00477	0.00508	0.00521	5.26E-03	0.00526

-385.3854	0.00477	0.00507	0.0052	5.25E-03	0.00525
-385.8859	0.00476	0.00507	0.00519	5.24E-03	0.00524
-386.3864	0.00476	0.00506	0.00518	5.23E-03	0.00524
-386.8869	0.00475	0.00505	0.00518	5.22E-03	0.00523
-387.3874	0.00475	0.00505	0.00517	5.21E-03	0.00522
-387.8879	0.00474	0.00504	0.00516	5.21E-03	0.00521
-388.3884	0.00474	0.00503	0.00515	5.20E-03	0.0052
-388.8889	0.00473	0.00503	0.00515	5.19E-03	0.00519
-389.3894	0.00473	0.00502	0.00514	5.18E-03	0.00518
-389.8899	0.00472	0.00501	0.00513	5.17E-03	0.00517
-390.3904	0.00471	0.00501	0.00512	5.17E-03	0.00517
-390.8909	0.00471	0.005	0.00512	5.16E-03	0.00516
-391.3914	0.0047	0.00499	0.00511	5.15E-03	0.00515
-391.8919	0.0047	0.00499	0.0051	5.14E-03	0.00514
-392.3924	0.00469	0.00498	0.00509	5.13E-03	0.00513
-392.8929	0.00469	0.00497	0.00509	5.13E-03	0.00512
-393.3934	0.00468	0.00497	0.00508	5.12E-03	0.00511
-393.8939	0.00468	0.00496	0.00507	5.11E-03	0.00511
-394.3944	0.00467	0.00496	0.00507	5.10E-03	0.0051
-394.8949	0.00466	0.00495	0.00506	5.09E-03	0.00509
-395.3954	0.00466	0.00494	0.00505	5.09E-03	0.00508
-395.8959	0.00465	0.00494	0.00504	5.08E-03	0.00507
-396.3964	0.00465	0.00493	0.00504	5.07E-03	0.00507
-396.8969	0.00464	0.00492	0.00503	5.06E-03	0.00506
-397.3974	0.00464	0.00492	0.00502	5.05E-03	0.00505
-397.8979	0.00463	0.00491	0.00501	5.05E-03	0.00504
-398.3984	0.00463	0.0049	0.00501	5.04E-03	0.00503
-398.8989	0.00462	0.0049	0.005	5.03E-03	0.00502
-399.3994	0.00462	0.00489	0.00499	5.02E-03	0.00502
-399.8999	0.00461	0.00488	0.00498	5.02E-03	0.00501
-400.4004	0.00461	0.00488	0.00498	5.01E-03	0.005
-400.9009	0.0046	0.00487	0.00497	5.00E-03	0.00499
-401.4014	0.0046	0.00486	0.00496	4.99E-03	0.00498
-401.9019	0.00459	0.00486	0.00496	4.98E-03	0.00497
-402.4024	0.00458	0.00485	0.00495	4.98E-03	0.00497
-402.9029	0.00458	0.00485	0.00494	4.97E-03	0.00496
-403.4034	0.00458	0.00484	0.00494	4.96E-03	0.00495
-403.9039	0.00457	0.00483	0.00493	4.95E-03	0.00494
-404.4044	0.00456	0.00483	0.00492	4.94E-03	0.00493
-404.9049	0.00456	0.00482	0.00491	4.94E-03	0.00493
-405.4054	0.00455	0.00481	0.00491	4.93E-03	0.00492
-405.9059	0.00455	0.00481	0.0049	4.92E-03	0.00491
-406.4064	0.00454	0.0048	0.00489	4.92E-03	0.0049
-406.9069	0.00454	0.00479	0.00489	4.91E-03	0.00489
-407.4074	0.00453	0.00479	0.00488	4.90E-03	0.00489
-407.9079	0.00453	0.00478	0.00487	4.89E-03	0.00488
-408.4084	0.00452	0.00478	0.00487	4.88E-03	0.00487
-408.9089	0.00452	0.00477	0.00486	4.88E-03	0.00486
-409.4094	0.00451	0.00476	0.00485	4.87E-03	0.00485

-409.9099	0.00451	0.00476	0.00485	4.86E-03	0.00485
-410.4104	0.0045	0.00475	0.00484	4.85E-03	0.00484
-410.9109	0.0045	0.00475	0.00483	4.85E-03	0.00483
-411.4114	0.00449	0.00474	0.00482	4.84E-03	0.00482
-411.9119	0.00449	0.00473	0.00482	4.83E-03	0.00481
-412.4124	0.00448	0.00473	0.00481	4.83E-03	0.00481
-412.9129	0.00448	0.00472	0.0048	4.82E-03	0.0048
-413.4134	0.00447	0.00471	0.0048	4.81E-03	0.00479
-413.9139	0.00447	0.00471	0.00479	4.80E-03	0.00478
-414.4144	0.00446	0.0047	0.00478	4.80E-03	0.00478
-414.9149	0.00446	0.0047	0.00478	4.79E-03	0.00477
-415.4154	0.00445	0.00469	0.00477	4.78E-03	0.00476
-415.9159	0.00445	0.00468	0.00476	4.77E-03	0.00475
-416.4164	0.00444	0.00468	0.00476	4.77E-03	0.00475
-416.9169	0.00444	0.00467	0.00475	4.76E-03	0.00474
-417.4174	0.00443	0.00467	0.00474	4.75E-03	0.00473
-417.9179	0.00443	0.00466	0.00474	4.75E-03	0.00472
-418.4184	0.00442	0.00466	0.00473	4.74E-03	0.00471
-418.9189	0.00442	0.00465	0.00472	4.73E-03	0.00471
-419.4194	0.00441	0.00464	0.00472	4.72E-03	0.0047
-419.9199	0.00441	0.00464	0.00471	4.72E-03	0.00469
-420.4204	0.0044	0.00463	0.0047	4.71E-03	0.00468
-420.9209	0.0044	0.00462	0.0047	4.70E-03	0.00468
-421.4214	0.00439	0.00462	0.00469	4.70E-03	0.00467
-421.9219	0.00439	0.00461	0.00468	4.69E-03	0.00466
-422.4224	0.00438	0.00461	0.00468	4.68E-03	0.00465
-422.9229	0.00438	0.0046	0.00467	4.68E-03	0.00465
-423.4234	0.00437	0.0046	0.00466	4.67E-03	0.00464
-423.9239	0.00437	0.00459	0.00466	4.66E-03	0.00463
-424.4244	0.00436	0.00458	0.00465	4.65E-03	0.00462
-424.9249	0.00436	0.00458	0.00464	4.65E-03	0.00462
-425.4254	0.00435	0.00457	0.00464	4.64E-03	0.00461
-425.9259	0.00435	0.00457	0.00463	4.63E-03	0.0046
-426.4264	0.00434	0.00456	0.00462	4.63E-03	0.0046
-426.9269	0.00434	0.00456	0.00462	4.62E-03	0.00459
-427.4274	0.00433	0.00455	0.00461	4.61E-03	0.00458
-427.9279	0.00433	0.00454	0.00461	4.60E-03	0.00457
-428.4284	0.00432	0.00454	0.0046	4.60E-03	0.00457
-428.9289	0.00432	0.00453	0.00459	4.59E-03	0.00456
-429.4294	0.00432	0.00453	0.00459	4.58E-03	0.00455
-429.9299	0.00431	0.00452	0.00458	4.58E-03	0.00454
-430.4304	0.00431	0.00451	0.00457	4.57E-03	0.00454
-430.9309	0.0043	0.00451	0.00457	4.56E-03	0.00453
-431.4314	0.0043	0.0045	0.00456	4.56E-03	0.00452
-431.9319	0.00429	0.0045	0.00456	4.55E-03	0.00451
-432.4324	0.00429	0.00449	0.00455	4.54E-03	0.00451
-432.9329	0.00428	0.00449	0.00454	4.54E-03	0.0045
-433.4334	0.00428	0.00448	0.00454	4.53E-03	0.00449
-433.9339	0.00427	0.00448	0.00453	4.52E-03	0.00449

-434.4344	0.00427	0.00447	0.00452	4.52E-03	0.00448
-434.9349	0.00426	0.00447	0.00452	4.51E-03	0.00447
-435.4354	0.00426	0.00446	0.00451	4.50E-03	0.00447
-435.9359	0.00425	0.00445	0.00451	4.50E-03	0.00446
-436.4364	0.00425	0.00445	0.0045	4.49E-03	0.00445
-436.937	0.00424	0.00444	0.00449	4.48E-03	0.00445
-437.4374	0.00424	0.00444	0.00449	4.48E-03	0.00444
-437.9379	0.00424	0.00443	0.00448	4.47E-03	0.00443
-438.4384	0.00423	0.00443	0.00447	4.46E-03	0.00442
-438.9389	0.00423	0.00442	0.00447	4.46E-03	0.00442
-439.4395	0.00422	0.00441	0.00446	4.45E-03	0.00441
-439.9399	0.00422	0.00441	0.00446	4.44E-03	0.0044
-440.4404	0.00421	0.0044	0.00445	4.44E-03	0.0044
-440.9409	0.00421	0.0044	0.00444	4.43E-03	0.00439
-441.4414	0.0042	0.00439	0.00444	4.42E-03	0.00438
-441.942	0.0042	0.00439	0.00443	4.42E-03	0.00438
-442.4424	0.00419	0.00438	0.00443	4.41E-03	0.00437
-442.9429	0.00419	0.00438	0.00442	4.40E-03	0.00436
-443.4435	0.00419	0.00437	0.00441	4.40E-03	0.00436
-443.9439	0.00418	0.00437	0.00441	4.39E-03	0.00435
-444.4445	0.00418	0.00436	0.0044	4.39E-03	0.00434
-444.9449	0.00417	0.00436	0.00439	4.38E-03	0.00433
-445.4454	0.00417	0.00435	0.00439	4.37E-03	0.00433
-445.946	0.00416	0.00434	0.00438	4.37E-03	0.00432
-446.4464	0.00416	0.00434	0.00438	4.36E-03	0.00431
-446.947	0.00415	0.00433	0.00437	4.35E-03	0.00431
-447.4474	0.00415	0.00433	0.00437	4.35E-03	0.0043
-447.9479	0.00414	0.00432	0.00436	4.34E-03	0.00429
-448.4485	0.00414	0.00432	0.00435	4.33E-03	0.00429
-448.9489	0.00414	0.00431	0.00435	4.33E-03	0.00428
-449.4495	0.00413	0.00431	0.00434	4.32E-03	0.00427
-449.95	0.00413	0.0043	0.00434	4.32E-03	0.00427
-450.4504	0.00412	0.0043	0.00433	4.31E-03	0.00426
-450.951	0.00412	0.00429	0.00432	4.30E-03	0.00425
-451.4514	0.00411	0.00428	0.00432	4.30E-03	0.00425
-451.952	0.00411	0.00428	0.00431	4.29E-03	0.00424
-452.4525	0.00411	0.00428	0.00431	4.28E-03	0.00423
-452.9529	0.0041	0.00427	0.0043	4.28E-03	0.00423
-453.4535	0.0041	0.00426	0.0043	4.27E-03	0.00422
-453.9539	0.00409	0.00426	0.00429	4.26E-03	0.00421
-454.4545	0.00409	0.00425	0.00428	4.26E-03	0.00421
-454.955	0.00408	0.00425	0.00428	4.25E-03	0.0042
-455.4554	0.00408	0.00424	0.00427	4.25E-03	0.00419
-455.956	0.00407	0.00424	0.00427	4.24E-03	0.00419
-456.4565	0.00407	0.00423	0.00426	4.23E-03	0.00418
-456.957	0.00407	0.00423	0.00426	4.23E-03	0.00417
-457.4575	0.00406	0.00422	0.00425	4.22E-03	0.00417
-457.9579	0.00406	0.00422	0.00424	4.22E-03	0.00416
-458.4585	0.00405	0.00421	0.00424	4.21E-03	0.00416

-458.959	0.00405	0.00421	0.00423	4.20E-03	0.00415
-459.4595	0.00404	0.0042	0.00423	4.20E-03	0.00414
-459.96	0.00404	0.0042	0.00422	4.19E-03	0.00414
-460.4604	0.00404	0.00419	0.00422	4.19E-03	0.00413
-460.961	0.00403	0.00419	0.00421	0.00418	0.00412
-461.4615	0.00403	0.00418	0.0042	0.00417	0.00412
-461.962	0.00402	0.00418	0.0042	0.00417	0.00411
-462.4625	0.00402	0.00417	0.00419	0.00416	0.00411
-462.963	0.00401	0.00417	0.00419	0.00415	0.0041
-463.4635	0.00401	0.00416	0.00418	0.00415	0.00409
-463.964	0.00401	0.00416	4.18E-03	0.00414	0.00409
-464.4645	0.004	0.00415	4.17E-03	0.00414	0.00408
-464.965	0.004	0.00415	4.16E-03	0.00413	0.00407
-465.4655	0.00399	0.00414	4.16E-03	0.00413	0.00407
-465.966	0.00399	0.00414	4.15E-03	0.00412	0.00406
-466.4665	0.00398	0.00413	4.15E-03	0.00411	0.00405
-466.967	0.00398	0.00413	4.14E-03	0.00411	0.00405
-467.4675	0.00398	0.00412	4.14E-03	0.0041	0.00404
-467.968	0.00397	0.00412	4.13E-03	0.00409	0.00404
-468.4685	0.00397	0.00411	4.13E-03	0.00409	0.00403
-468.969	0.00396	0.00411	4.12E-03	0.00408	0.00402
-469.4695	0.00396	0.0041	4.11E-03	0.00408	0.00402
-469.97	0.00396	0.0041	4.11E-03	0.00407	0.00401
-470.4705	0.00395	0.00409	4.10E-03	0.00407	0.00401
-470.971	0.00395	0.00409	4.10E-03	0.00406	0.004
-471.4715	0.00394	0.00408	4.09E-03	0.00405	0.00399
-471.972	0.00394	0.00408	4.09E-03	0.00405	0.00399
-472.4725	0.00394	0.00407	4.08E-03	0.00404	0.00398
-472.973	0.00393	0.00407	4.08E-03	0.00404	0.00398
-473.4735	0.00393	0.00406	4.07E-03	0.00403	0.00397
-473.974	0.00392	0.00406	4.07E-03	0.00403	0.00396
-474.4745	0.00392	0.00405	4.06E-03	0.00402	0.00396
-474.975	0.00391	0.00405	4.05E-03	0.00401	0.00395
-475.4755	0.00391	0.00404	4.05E-03	0.00401	0.00394
-475.976	0.00391	0.00404	4.05E-03	0.004	0.00394
-476.4765	0.0039	0.00403	4.04E-03	0.004	0.00393
-476.977	0.0039	0.00403	4.03E-03	0.00399	0.00393
-477.4775	0.00389	0.00402	4.03E-03	0.00399	0.00392
-477.978	0.00389	0.00402	4.02E-03	0.00398	0.00392
-478.4785	0.00389	0.00402	4.02E-03	0.00397	0.00391
-478.979	0.00388	0.00401	4.01E-03	0.00397	0.0039
-479.4795	0.00388	0.004	4.01E-03	0.00396	0.0039
-479.98	0.00387	0.004	4.00E-03	0.00396	0.00389
-480.4805	0.00387	0.004	4.00E-03	0.00395	0.00389
-480.981	0.00387	0.00399	3.99E-03	0.00395	0.00388
-4.81E+02	0.00386	0.00399	3.99E-03	0.00394	0.00387
-4.82E+02	0.00386	0.00398	3.98E-03	0.00394	0.00387
-4.82E+02	0.00385	0.00398	3.98E-03	0.00393	0.00386
-4.83E+02	0.00385	0.00397	3.97E-03	0.00392	0.00386

-4.83E+02	0.00385	0.00397	3.97E-03	0.00392	0.00385
-4.84E+02	0.00384	0.00396	3.96E-03	0.00391	0.00384
-4.84E+02	0.00384	0.00396	3.96E-03	0.00391	0.00384
-4.85E+02	0.00383	0.00395	3.95E-03	0.0039	0.00383
-4.85E+02	0.00383	0.00395	3.94E-03	0.0039	0.00383
-4.86E+02	0.00383	0.00394	3.94E-03	0.00389	0.00382
-4.86E+02	0.00382	0.00394	3.94E-03	0.00389	0.00382
-4.87E+02	0.00382	0.00393	3.93E-03	0.00388	0.00381
-4.87E+02	0.00381	0.00393	3.92E-03	0.00388	0.0038
-4.88E+02	0.00381	0.00392	3.92E-03	0.00387	0.0038
-4.88E+02	0.00381	0.00392	3.91E-03	0.00386	0.00379
-4.89E+02	0.0038	0.00392	3.91E-03	0.00386	0.00379
-4.89E+02	0.0038	0.00391	3.90E-03	0.00385	0.00378
-4.90E+02	0.0038	0.00391	3.90E-03	0.00385	0.00378
-4.90E+02	0.00379	0.0039	3.89E-03	0.00384	0.00377
-4.91E+02	0.00379	0.0039	3.89E-03	0.00384	0.00377
-4.91E+02	0.00378	0.00389	3.88E-03	0.00383	0.00376
-4.92E+02	0.00378	0.00389	3.88E-03	0.00383	0.00375
-4.92E+02	0.00378	0.00388	3.87E-03	0.00382	0.00375
-4.93E+02	0.00377	0.00388	3.87E-03	0.00381	0.00374
-4.93E+02	0.00377	0.00388	3.86E-03	0.00381	0.00374
-4.94E+02	0.00376	0.00387	3.86E-03	0.0038	0.00373
-4.94E+02	0.00376	0.00387	3.85E-03	0.0038	0.00373
-4.95E+02	0.00376	0.00386	3.85E-03	0.00379	0.00372
-4.95E+02	0.00375	0.00386	3.84E-03	0.00379	0.00372
-4.96E+02	0.00375	0.00385	3.84E-03	0.00378	0.00371
-4.96E+02	0.00375	0.00385	3.83E-03	0.00378	0.0037
-4.97E+02	0.00374	0.00384	3.83E-03	0.00377	0.0037
-4.97E+02	0.00374	0.00384	3.82E-03	0.00377	0.00369
-4.98E+02	0.00373	0.00383	3.82E-03	0.00376	0.00369
-4.98E+02	0.00373	0.00383	3.81E-03	0.00376	0.00368
-4.99E+02	0.00373	0.00382	3.81E-03	0.00375	0.00368
-4.99E+02	0.00372	0.00382	3.80E-03	0.00375	0.00367
-5.00E+02	0.00372	0.00382	3.80E-03	0.00374	0.00367