

Muzzle Position vs Time

[All Vibrations Initiate at Time of Bullet Engraving plus Signalling Delay.]
[Here, engaging time (t) is time since start of muzzle vibrations]
[Odd Modes Start Positive Going, and Even Modes Start Negative Going.]
Peak Torque (Gamma) at Rcvr. End = 133.4251 Kg m/2sec²
Torque Drive Muzzle Amplitude (Mod 1) = 10.3719 micro-meters

Input Data	microsec	Peak Amplitudes	millimeters
Time of Bullet Engr. (6.0 kci	109		
Peak Base Pressure	511	A1 = 0.00625759	
Signalling Delay	216	A2 = 0.00094153	
Peak of Muzzle Motions	727	A3 = 0.00545457	
Peak Excitation Freq (Hz)	606.27	A4 = 0.00004286	
Bullet Exit Time (mu-sec)	1328	A5 = 0.00000000	
Shear Propagation Rate (m/	3654	A6 = 0.00000000	
Est. Barrel Length (L")	0.6664	A7 = 0.00000000	

Muzzle Movement: Mode(n) mm = +/-A(n)*SIN(2P(t-n)*t)

Vibrating time (microsec)	Vib. time (seconds)	Mode 1 (mm)	Mode 2 (mm)
0	0.000000	0.000000	0.000000
1	0.000001	0.000003	0.000027
2	0.000002	0.000005	0.000054
3	0.000003	0.000008	0.000081
4	0.000004	0.000010	0.000107
5	0.000005	0.000014	0.000134
6	0.000006	0.000016	0.000161
7	0.000007	0.000019	0.000188
8	0.000008	0.000022	0.000215
9	0.000009	0.000025	0.000242
10	0.000010	0.000027	0.000269
11	0.000011	0.000030	0.000296
12	0.000012	0.000033	0.000322
13	0.000013	0.000035	0.000349
14	0.000014	0.000038	0.000376
15	0.000015	0.000041	0.000403
16	0.000016	0.000044	0.000430
17	0.000017	0.000046	0.000457
18	0.000018	0.000049	0.000484
19	0.000019	0.000052	0.000510
20	0.000020	0.000055	0.000537
21	0.000021	0.000057	0.000564
22	0.000022	0.000060	0.000591
23	0.000023	0.000063	0.000618
24	0.000024	0.000065	0.000644
25	0.000025	0.000068	0.000671
26	0.000026	0.000071	0.000698
27	0.000027	0.000074	0.000725
28	0.000028	0.000076	0.000752
29	0.000029	0.000079	0.000778
30	0.000030	0.000082	0.000805
31	0.000031	0.000085	0.000832
32	0.000032	0.000087	0.000859
33	0.000033	0.000090	0.000886
34	0.000034	0.000093	0.000912
35	0.000035	0.000095	0.000939
36	0.000036	0.000098	0.000966
37	0.000037	0.000101	0.000993
38	0.000038	0.000104	0.001019
39	0.000039	0.000106	0.001046
40	0.000040	0.000109	0.001073
41	0.000041	0.000112	0.001099
42	0.000042	0.000115	0.001126
43	0.000043	0.000117	0.001153
44	0.000044	0.000120	0.001180
45	0.000045	0.000123	0.001206
46	0.000046	0.000125	0.001233
47	0.000047	0.000128	0.001260
48	0.000048	0.000131	0.001286
49	0.000049	0.000134	0.001313
50	0.000050	0.000136	0.001339
51	0.000051	0.000139	0.001366
52	0.000052	0.000142	0.001393
53	0.000053	0.000144	0.001419
54	0.000054	0.000147	0.001446
55	0.000055	0.000150	0.001472
56	0.000056	0.000153	0.001499
57	0.000057	0.000155	0.001526
58	0.000058	0.000158	0.001552
59	0.000059	0.000161	0.001579
60	0.000060	0.000164	0.001605
61	0.000061	0.000166	0.001632
62	0.000062	0.000169	0.001658
63	0.000063	0.000172	0.001685
64	0.000064	0.000174	0.001711
65	0.000065	0.000177	0.001737
66	0.000066	0.000180	0.001764
67	0.000067	0.000183	0.001790
68	0.000068	0.000185	0.001817
69	0.000069	0.000188	0.001843
70	0.000070	0.000191	0.001870
71	0.000071	0.000194	0.001896
72	0.000072	0.000196	0.001922
73	0.000073	0.000199	0.001949
74	0.000074	0.000202	0.001975
75	0.000075	0.000204	0.002001
76	0.000076	0.000207	0.002028
77	0.000077	0.000210	0.002054
78	0.000078	0.000213	0.002080
79	0.000079	0.000215	0.002107
80	0.000080	0.000218	0.002133
81	0.000081	0.000221	0.002159
82	0.000082	0.000224	0.002185
83	0.000083	0.000226	0.002211
84	0.000084	0.000229	0.002238
85	0.000085	0.000232	0.002264
86	0.000086	0.000234	0.002290
87	0.000087	0.000237	0.002316
88	0.000088	0.000240	0.002342
89	0.000089	0.000243	0.002368
90	0.000090	0.000245	0.002394

91	0.000091	0.000248	0.002420	0.003490	0.000042	0.000000	0.00000000	0.00000000	416	0.001276108	0.000329551	2.9365270196	0.2582468217	2248.39
92	0.000092	0.000251	0.002446	0.003522	0.000042	0.000000	0.00000000	0.00000000	417	0.001284521	0.000334620	2.9249872897	0.2605013821	2260.73
93	0.000093	0.000253	0.002472	0.003554	0.000042	0.000000	0.00000000	0.00000000	418	0.001292756	0.000339695	2.9124726902	0.2627652691	2273.04
94	0.000094	0.000256	0.002498	0.003585	0.000042	0.000000	0.00000000	0.00000000	419	0.001300811	0.000344777	2.8989343447	0.2650474626	2285.34
95	0.000095	0.000259	0.002524	0.003617	0.000042	0.000000	0.00000000	0.00000000	420	0.001308865	0.000349862	2.8843632248	0.2673309411	2297.61
96	0.000096	0.000262	0.002550	0.003648	0.000042	0.000000	0.00000000	0.00000000	421	0.001316920	0.000354946	2.8697461427	0.2696206491	2309.86
97	0.000097	0.000264	0.002576	0.003678	0.000043	0.000000	0.00000000	0.00000000	422	0.001323881	0.000360031	2.8520457574	0.2719586614	2322.09
98	0.000098	0.000267	0.002602	0.003709	0.000043	0.000000	0.00000000	0.00000000	423	0.001331200	0.000365131	2.8342605764	0.274288543	2334.29
99	0.000099	0.000270	0.002628	0.003739	0.000043	0.000000	0.00000000	0.00000000	424	0.001338522	0.000370232	2.8153648576	0.2766272042	2346.46
100	0.000100	0.000273	0.002654	0.003769	0.000043	0.000000	0.00000000	0.00000000	425	0.001345844	0.000375304	2.7953931114	0.2789737735	2358.61
101	0.000101	0.000275	0.002680	0.003799	0.000043	0.000000	0.00000000	0.00000000	426	0.001352025	0.000380385	2.7741631038	0.2813444434	2370.73
102	0.000102	0.000278	0.002706	0.003829	0.000043	0.000000	0.00000000	0.00000000	427	0.001358584	0.000385459	2.7518165850	0.2837212138	2382.81
103	0.000103	0.000281	0.002732	0.003859	0.000043	0.000000	0.00000000	0.00000000	428	0.001365494	0.000390530	2.7282601570	0.2861105532	2394.86
104	0.000104	0.000283	0.002757	0.003888	0.000043	0.000000	0.00000000	0.00000000	429	0.001371117	0.000395582	2.7035236502	0.2885102680	2406.88
105	0.000105	0.000286	0.002783	0.003917	0.000043	0.000000	0.00000000	0.00000000	430	0.001377089	0.000400628	2.6775534878	0.2909230870	2418.87
106	0.000106	0.000289	0.002809	0.003946	0.000043	0.000000	0.00000000	0.00000000	431	0.001382962	0.000405681	2.650231128	0.2933486522	2430.82
107	0.000107	0.000292	0.002835	0.003974	0.000043	0.000000	0.00000000	0.00000000	432	0.001388435	0.000410679	2.6218197584	0.2957854279	2442.73
108	0.000108	0.000294	0.002860	0.004003	0.000043	0.000000	0.00000000	0.00000000	433	0.001393806	0.000415681	2.5920228548	0.2982340982	2454.60
109	0.000109	0.000297	0.002886	0.004031	0.000043	0.000000	0.00000000	0.00000000	434	0.001398974	0.000420684	2.5602914298	0.3006946178	2466.43
110	0.000110	0.000300	0.002912	0.004059	0.000043	0.000000	0.00000000	0.00000000	435	0.001403938	0.000425628	2.5294643740	0.3031695624	2478.23
111	0.000111	0.000303	0.002937	0.004086	0.000043	0.000000	0.00000000	0.00000000	436	0.001408696	0.000430569	2.4946604639	0.3056510579	2489.98
112	0.000112	0.000305	0.002963	0.004114	0.000043	0.000000	0.00000000	0.00000000	437	0.001413246	0.000435487	2.4594783659	0.3081468911	2501.68
113	0.000113	0.000308	0.002989	0.004141	0.000043	0.000000	0.00000000	0.00000000	438	0.001417587	0.000440380	2.4229663369	0.3106544077	2513.34
114	0.000114	0.000311	0.003014	0.004168	0.000042	0.000000	0.00000000	0.00000000	439	0.001421718	0.000445245	2.3848937438	0.3131755615	2524.96
115	0.000115	0.000313	0.003040	0.004194	0.000042	0.000000	0.00000000	0.00000000	440	0.001425638	0.000450080	2.3454480376	0.3157043055	2536.52
116	0.000116	0.000316	0.003065	0.004221	0.000042	0.000000	0.00000000	0.00000000	441	0.001429344	0.000454884	2.3045377875	0.3182455910	2548.04
117	0.000117	0.000319	0.003091	0.004247	0.000042	0.000000	0.00000000	0.00000000	442	0.001432836	0.000459654	2.2621411706	0.3208003680	2559.51
118	0.000118	0.000322	0.003116	0.004273	0.000042	0.000000	0.00000000	0.00000000	443	0.001436112	0.000464389	2.2182327297	0.3233655851	2570.92
119	0.000119	0.000324	0.003142	0.004299	0.000042	0.000000	0.00000000	0.00000000	444	0.001439171	0.000469126	2.1728011270	0.3259321880	2582.28
120	0.000120	0.000327	0.003167	0.004324	0.000042	0.000000	0.00000000	0.00000000	445	0.001442011	0.000473744	2.1258136031	0.3285037375	2593.59
121	0.000121	0.000330	0.003193	0.004349	0.000042	0.000000	0.00000000	0.00000000	446	0.001444632	0.000478360	2.0772517244	0.3311203436	2604.84
122	0.000122	0.000332	0.003218	0.004374	0.000041	0.000000	0.00000000	0.00000000	447	0.001447101	0.000482932	2.0277931458	0.3337397805	2616.03
123	0.000123	0.000335	0.003244	0.004399	0.000041	0.000000	0.00000000	0.00000000	448	0.001449428	0.000487468	1.9751156201	0.3363513801	2627.16
124	0.000124	0.000338	0.003269	0.004423	0.000041	0.000000	0.00000000	0.00000000	449	0.001451161	0.000491935	1.921866670	0.3389640828	2638.23
125	0.000125	0.000341	0.003294	0.004447	0.000041	0.000000	0.00000000	0.00000000	450	0.001452890	0.000496362	1.8668147026	0.3415877874	2649.24
126	0.000126	0.000343	0.003319	0.004471	0.000041	0.000000	0.00000000	0.00000000	451	0.001454522	0.000500766	1.8104647116	0.3442205516	2660.26
127	0.000127	0.000346	0.003345	0.004495	0.000041	0.000000	0.00000000	0.00000000	452	0.001456566	0.000505055	1.751568409	0.3468561913	2671.08
128	0.000128	0.000349	0.003370	0.004518	0.000040	0.000000	0.00000000	0.00000000	453	0.001458711	0.000509317	1.6913623467	0.3494364814	2681.89
129	0.000129	0.000352	0.003395	0.004541	0.000040	0.000000	0.00000000	0.00000000	454	0.001460857	0.000513557	1.6294915024	0.3520321050	2692.68
130	0.000130	0.000354	0.003421	0.004564	0.000040	0.000000	0.00000000	0.00000000	455	0.001463111	0.000517659	1.5656646046	0.3550199440	2703.32
131	0.000131	0.000357	0.003446	0.004587	0.000040	0.000000	0.00000000	0.00000000	456	0.001465463	0.000521734	1.5001297394	0.3577285789	2713.93
132	0.000132	0.000360	0.003471	0.004609	0.000039	0.000000	0.00000000	0.00000000	457	0.001467822	0.000525742	1.4327377899	0.3604477886	2724.43
133	0.000133	0.000362	0.003496	0.004631	0.000039	0.000000	0.00000000	0.00000000	458	0.001470184	0.000529642	1.3631744422	0.3631770002	2734.94
134	0.000134	0.000365	0.003521	0.004653	0.000039	0.000000	0.00000000	0.00000000	459	0.001472548	0.000533549	1.2925091944	0.3659471943	2745.33
135	0.000135	0.000368	0.003546	0.004674	0.000039	0.000000	0.00000000	0.00000000	460	0.001474923	0.000537342	1.2195565569	0.3686681350	2755.84
136	0.000136	0.000371	0.003571	0.004695	0.000039	0.000000	0.00000000	0.00000000	461	0.001477297	0.000541135	1.1446910623	0.3713929063	2766.38
137	0.000137	0.000373	0.003596	0.004717	0.000038	0.000000	0.00000000	0.00000000	462	0.001479672	0.000544966	1.0679833342	0.3741989737	2776.04
138	0.000138	0.000376	0.003621	0.004737	0.000038	0.000000	0.00000000	0.00000000	463	0.001482047	0.000548821	0.9891392927	0.3769909608	2786.12
139	0.000139	0.000379	0.003646	0.004757	0.000038	0.000000	0.00000000	0.00000000	464	0.001484422	0.000552706	0.9071720844	0.3797720844	2795.12
140	0.000140	0.000381	0.003671	0.004778	0.000037	0.000000	0.00000000	0.00000000	465	0.001486797	0.000556552	0.8256757654	0.3825731650	2806.03
141	0.000141	0.000384	0.003696	0.004798	0.000037	0.000000	0.00000000	0.00000000	466	0.001489169	0.000560400	0.7402927123	0.3853841156	2815.86
142	0.000142	0.000387	0.003721	0.004817	0.000036	0.000000	0.00000000	0.00000000	467	0.001491544	0.000564262	0.6541239338	0.3882043875	2825.60
143	0.000143	0.000390	0.003746	0.004836	0.000036	0.000000	0.00000000	0.00000000	468	0.001493919	0.000568139	0.5652584715	0.3910352966	2835.25
144	0.000144	0.000392	0.003771	0.004855	0.000036	0.000000	0.00000000	0.00000000	469	0.001496294	0.000572017	0.4743043597	0.3938573118	2844.82
145	0.000145	0.000395	0.003796	0.004874	0.000035	0.000000	0.00000000	0.00000000	470	0.001498669	0.000575928	0.3812397305	0.3967244876	2854.30
146	0.000146	0.000398	0.003820	0.004893	0.000035	0.000000	0.00000000	0.00000000	471	0.001501044	0.000579837	0.2884262368	0.3995969027	2863.88
147	0.000147	0.000401	0.003845	0.004911	0.000035	0.000000	0.00000000	0.00000000	472	0.001503419	0.000583764	0.1868920590	0.4024522244	2873.97
148	0.000148	0.000403	0.003870	0.004929	0.000034	0.000000	0.00000000	0.00000000	473	0.001505794	0.000587726	0.0891657658	0.4053297986	2882.16
149	0.000149	0.000406	0.003894	0.004947	0.000034	0.000000	0.00000000	0.00000000	474	0.001508169	0.000591677	-0.0125572711	0.4082165106	2890.26
150	0.000150	0.000409	0.003919	0.004963	0.000033	0.000000	0.00000000	0.00000000	475	0.001510544	0.000595652</			

210	0.000210	0.000572	0.005339	0.005442	0.000000	0.000000	0.00000000	0.00000000	535	0.000675094	0.000402966	-11.0420746884	0.5989039942	3208.35
211	0.000211	0.000574	0.005362	0.005441	-0.000001	0.000000	0.00000000	0.00000000	536	0.000654289	0.000392847	-11.3083859502	0.6001125848	3208.80
212	0.000212	0.000577	0.005384	0.005439	-0.000001	0.000000	0.00000000	0.00000000	537	0.000633207	0.000370033	-11.5774640783	0.6013213207	3209.07
213	0.000213	0.000580	0.005407	0.005436	-0.000002	0.000000	0.00000000	0.00000000	538	0.000611846	0.000371104	-11.8482889706	0.6065365697	3209.16
214	0.000214	0.000583	0.005429	0.005434	-0.000003	0.000000	0.00000000	0.00000000	539	0.000599028	0.000359873	-12.1238591566	0.6097897867	3209.07
215	0.000215	0.000585	0.005451	0.005433	-0.000004	0.000000	0.00000000	0.00000000	540	0.000588291	0.000348241	-12.4011328971	0.6129483291	3209.30
216	0.000216	0.000588	0.005474	0.005428	-0.000004	0.000000	0.00000000	0.00000000	541	0.000565097	0.000336482	-12.6811242646	0.6161573188	3209.34
217	0.000217	0.000591	0.005496	0.005424	-0.000005	0.000000	0.00000000	0.00000000	542	0.0005523625	0.000324315	-12.9639062322	0.6193653608	3209.71
218	0.000218	0.000593	0.005518	0.005416	-0.000006	0.000000	0.00000000	0.00000000	543	0.0005405876	0.000312607	-13.2491625547	0.6226726707	3209.89
219	0.000219	0.000596	0.005541	0.005416	-0.000006	0.000000	0.00000000	0.00000000	544	0.000477850	0.000299029	-13.5371753588	0.6257739625	3209.89
220	0.000220	0.000599	0.005563	0.005412	-0.000007	0.000000	0.00000000	0.00000000	545	0.000454547	0.000285903	-13.8278257239	0.6289843936	3204.70
221	0.000221	0.000602	0.005585	0.005407	-0.000007	0.000000	0.00000000	0.00000000	546	0.000430968	0.000272453	-14.1210937733	0.6321884245	3203.33
222	0.000222	0.000604	0.005607	0.005402	-0.000008	0.000000	0.00000000	0.00000000	547	0.000407113	0.000259082	-14.4185553982	0.6353809882	3201.77
223	0.000223	0.000607	0.005629	0.005397	-0.000008	0.000000	0.00000000	0.00000000	548	0.000382981	0.000244669	-14.7153983449	0.6385914893	3200.02
224	0.000224	0.000610	0.005651	0.005391	-0.000009	0.000000	0.00000000	0.00000000	549	0.000358575	0.000230130	-15.0163930300	0.6417919680	3198.08
225	0.000225	0.000612	0.005673	0.005385	-0.000010	0.000000	0.00000000	0.00000000	550	0.000333893	0.000215387	-15.3199037334	0.6449880661	3195.86
226	0.000226	0.000615	0.005695	0.005378	-0.000010	0.000000	0.00000000	0.00000000	551	0.000308936	0.000200247	-15.6259324453	0.6481828241	3193.64
227	0.000227	0.000618	0.005717	0.005372	-0.000011	0.000000	0.00000000	0.00000000	552	0.000283705	0.000184798	-15.9344321363	0.6513752316	3191.14
228	0.000228	0.000621	0.005739	0.005365	-0.000012	0.000000	0.00000000	0.00000000	553	0.000258200	0.000169039	-16.2453917207	0.6545650377	3188.44
229	0.000229	0.000623	0.005761	0.005357	-0.000012	0.000000	0.00000000	0.00000000	554	0.000232421	0.000152676	-16.5597530559	0.6577520505	3185.55
230	0.000230	0.000626	0.005782	0.005350	-0.000013	0.000000	0.00000000	0.00000000	555	0.000206370	0.000136397	-16.8745169386	0.6609360775	3182.47
231	0.000231	0.000629	0.005804	0.005342	-0.000013	0.000000	0.00000000	0.00000000	556	0.000180406	0.000119571	-17.1926430888	0.6641162557	3179.19
232	0.000232	0.000631	0.005826	0.005334	-0.000014	0.000000	0.00000000	0.00000000	557	0.000153448	0.000102986	-17.5131001646	0.6672944011	3175.72
233	0.000233	0.000634	0.005847	0.005325	-0.000015	0.000000	0.00000000	0.00000000	558	0.000125581	0.000084869	-17.8358557372	0.6704683084	3172.06
234	0.000234	0.000637	0.005869	0.005316	-0.000015	0.000000	0.00000000	0.00000000	559	0.000099442	0.000068988	-18.1608762966	0.6736384553	3168.20
235	0.000235	0.000640	0.005891	0.005307	-0.000016	0.000000	0.00000000	0.00000000	560	0.000073033	0.000049752	-18.4881272450	0.6768041634	3164.14
236	0.000236	0.000642	0.005912	0.005298	-0.000016	0.000000	0.00000000	0.00000000	561	0.000044353	0.000030159	-18.8175728937	0.6799666771	3159.89
237	0.000237	0.000645	0.005934	0.005288	-0.000017	0.000000	0.00000000	0.00000000	562	0.000016404	0.000011206	-19.1491764578	0.6831243598	3155.44
238	0.000238	0.000648	0.005956	0.005277	-0.000018	0.000000	0.00000000	0.00000000	563	-0.000011814	0.000000000	-19.4820920571	0.6862774938	3150.79
239	0.000239	0.000650	0.005976	0.005267	-0.000018	0.000000	0.00000000	0.00000000	564	-0.000040300	0.000000000	-19.8167047099	0.6894252815	3145.95
240	0.000240	0.000653	0.005998	0.005257	-0.000019	0.000000	0.00000000	0.00000000	565	-0.000069053	0.0000047824	-20.1565503242	0.6925663242	3140.90
241	0.000241	0.000656	0.006019	0.005246	-0.000019	0.000000	0.00000000	0.00000000	566	-0.000098074	0.000008231	-20.4963957379	0.6956707620	3135.66
242	0.000242	0.000659	0.006040	0.005234	-0.000020	0.000000	0.00000000	0.00000000	567	-0.000127361	0.0000127361	-20.8381980337	0.6986463786	3130.22
243	0.000243	0.000661	0.006061	0.005223	-0.000021	0.000000	0.00000000	0.00000000	568	-0.000156913	0.000011048	-21.1819156222	0.7019679910	3124.57
244	0.000244	0.000664	0.006082	0.005211	-0.000021	0.000000	0.00000000	0.00000000	569	-0.000186730	0.000013161	-21.5275021998	0.7050886699	3118.73
245	0.000245	0.000667	0.006104	0.005200	-0.000022	0.000000	0.00000000	0.00000000	570	-0.000216811	0.000015364	-21.8749127517	0.7080033847	3112.69
246	0.000246	0.000669	0.006125	0.005188	-0.000022	0.000000	0.00000000	0.00000000	571	-0.000247155	0.0000175005	-22.2241005812	0.7113149642	3106.44
247	0.000247	0.000672	0.006146	0.005173	-0.000023	0.000000	0.00000000	0.00000000	572	-0.000277763	0.0000198439	-22.5750178534	0.7144181970	3099.99
248	0.000248	0.000675	0.006167	0.005158	-0.000024	0.000000	0.00000000	0.00000000	573	-0.000308631	0.0000227784	-22.9276155548	0.7175054812	3093.34
249	0.000249	0.000678	0.006188	0.005146	-0.000024	0.000000	0.00000000	0.00000000	574	-0.000339761	0.0000244534	-23.2818439563	0.7205048148	3086.49
250	0.000250	0.000680	0.006208	0.005133	-0.000024	0.000000	0.00000000	0.00000000	575	-0.000371151	0.0000265598	-23.6376516717	0.7232867592	3079.44
251	0.000251	0.000683	0.006229	0.005119	-0.000025	0.000000	0.00000000	0.00000000	576	-0.000402801	0.0000282741	-23.9949856613	0.7267536198	3072.18
252	0.000252	0.000686	0.006250	0.005105	-0.000026	0.000000	0.00000000	0.00000000	577	-0.000434708	0.0000299353	-24.3557933004	0.7299912863	3064.72
253	0.000253	0.000688	0.006271	0.005090	-0.000026	0.000000	0.00000000	0.00000000	578	-0.000466874	0.0000321169	-24.7142306804	0.7328228622	3057.05
254	0.000254	0.000691	0.006291	0.005075	-0.000026	0.000000	0.00000000	0.00000000	579	-0.000499296	0.0000336755	-25.0765159141	0.7359481273	3049.19
255	0.000255	0.000694	0.006312	0.005061	-0.000027	0.000000	0.00000000	0.00000000	580	-0.000531974	0.0000353674	-25.4385137105	0.7389912863	3041.12
256	0.000256	0.000697	0.006333	0.005044	-0.000027	0.000000	0.00000000	0.00000000	581	-0.0005654907	0.0000371917	-25.8002653859	0.7420052922	3032.84
257	0.000257	0.000699	0.006353	0.005028	-0.000028	0.000000	0.00000000	0.00000000	582	-0.000598903	0.0000384514	-26.1606002655	0.7450589112	3024.36
258	0.000258	0.000702	0.006374	0.005013	-0.000028	0.000000	0.00000000	0.00000000	583	-0.000632370	0.0000397245	-26.5194761610	0.7480709601	3015.68
259	0.000259	0.000705	0.006394	0.004995	-0.000029	0.000000	0.00000000	0.00000000	584	-0.000665225	0.0000409642	-26.9020216632	0.7510852018	3006.79
260	0.000260	0.000707	0.006415	0.004979	-0.000029	0.000000	0.00000000	0.00000000	585	-0.000699167	0.0000422735	-27.2705735803	0.7540904648	2997.70
261	0.000261	0.000710	0.006435	0.004962	-0.000030	0.000000	0.00000000	0.00000000	586	-0.000732359	0.0000435814	-27.6400715161	0.7570855339	2988.40
262	0.000262	0.000713	0.006455	0.004944	-0.000030	0.000000	0.00000000	0.00000000	587	-0.0007657601	0.0000449380	-28.0104515946	0.7600672046	2978.90
263	0.000263	0.000715	0.006476	0.004927	-0.000031	0.000000	0.00000000	0.00000000	588	-0.000802490	0.0000461233	-28.3816482963	0.7630041276	2969.20
264	0.000264	0.000718	0.006496	0.004909	-0.000031	0.000000	0.00000000	0.00000000	589	-0.000837426	0.0000474473	-28.7535976189	0.7659865333	2959.29
265	0.000265	0.000721	0.006516	0.004891	-0.000032	0.000000	0.00000000	0.00000000	590	-0.000872607	0.0000487267	-29.1262387879	0.7689957625	2949.18
266	0.000266	0.000724	0.006536	0.004872	-0.000032	0.000000	0.00000000	0.00000000	591	-0.000908033	0.0000500914	-29.4984049579	0.7719038158	2938.86
267	0.000267	0.000726	0.006556	0.004854	-0.000032	0.000000	0.00000000	0.00000000	592	-0.000943703	0.0000513216	-29.8732781251	0.7748374289	2928.33
268	0.000268	0.000729	0.006576	0.004835	-0.000033	0.000000	0.00000000	0.00000000	593	-0.000979615	0.0000525353	-30.2475526952	0.7777934177	2917.61
269	0.000269	0.000732	0.006596	0.004815	-0.000033	0.000000	0.00000000	0.00000000</						

329	0.000329	0.000894	0.007699	0.003191	-0.000042	0.000000	0.00000000	0.00000000	654	-0.003571794	-0.003315061	-50.7568150282	0.928121045	1896.72
330	0.000330	0.000897	0.007716	0.003158	-0.000042	0.000000	0.00000000	0.00000000	655	-0.003619776	-0.003364819	-50.9979178152	0.930077512	1874.54
331	0.000331	0.000899	0.007732	0.003120	-0.000042	0.000000	0.00000000	0.00000000	656	-0.003667954	-0.003415005	-51.2341024005	0.9318711501	1852.21
332	0.000332	0.000902	0.007749	0.003089	-0.000041	0.000000	0.00000000	0.00000000	657	-0.003716147	-0.003469812	-51.4652871396	0.9337112150	1829.73
333	0.000333	0.000905	0.007766	0.003055	-0.000041	0.000000	0.00000000	0.00000000	658	-0.003764532	-0.003521855	-51.6913969194	0.9355305557	1807.11
334	0.000334	0.000907	0.007782	0.003020	-0.000041	0.000000	0.00000000	0.00000000	659	-0.003812946	-0.003574070	-51.9233230272	0.9373260267	1784.33
335	0.000335	0.000910	0.007798	0.002986	-0.000041	0.000000	0.00000000	0.00000000	660	-0.003861691	-0.003626511	-52.1280355669	0.9390915755	1761.42
336	0.000336	0.000913	0.007815	0.002951	-0.000041	0.000000	0.00000000	0.00000000	661	-0.003910460	-0.003678915	-52.3384110800	0.9408490778	1738.36
337	0.000337	0.000916	0.007831	0.002916	-0.000040	0.000000	0.00000000	0.00000000	662	-0.003959262	-0.003731860	-52.5493486732	0.9425759534	1715.17
338	0.000338	0.000918	0.007847	0.002880	-0.000040	0.000000	0.00000000	0.00000000	663	-0.004008366	-0.003785017	-52.7429219542	0.9442739629	1691.83
339	0.000339	0.000921	0.007864	0.002845	-0.000040	0.000000	0.00000000	0.00000000	664	-0.004057499	-0.003838230	-52.9388896712	0.9461954689	1668.36
340	0.000340	0.000924	0.007880	0.002809	-0.000040	0.000000	0.00000000	0.00000000	665	-0.004106749	-0.003891621	-53.1252352657	0.9479160366	1644.75
341	0.000341	0.000926	0.007896	0.002774	-0.000039	0.000000	0.00000000	0.00000000	666	-0.004156133	-0.003945086	-53.3079807280	0.9494548026	1621.01
342	0.000342	0.000929	0.007912	0.002738	-0.000039	0.000000	0.00000000	0.00000000	667	-0.004205590	-0.003998919	-53.4847710229	0.9508580167	1597.14
343	0.000343	0.000932	0.007928	0.002702	-0.000039	0.000000	0.00000000	0.00000000	668	-0.004255176	-0.004052814	-53.65948177319	0.9524431682	1573.14
344	0.000344	0.000934	0.007944	0.002666	-0.000038	0.000000	0.00000000	0.00000000	669	-0.004304871	-0.004106486	-53.8292572806	0.9540042568	1549.01
345	0.000345	0.000937	0.007959	0.002629	-0.000038	0.000000	0.00000000	0.00000000	670	-0.004354671	-0.004161067	-53.9801213321	0.9555411496	1524.76
346	0.000346	0.000940	0.007975	0.002593	-0.000038	0.000000	0.00000000	0.00000000	671	-0.004404574	-0.004215414	-54.1332428184	0.9570573724	1500.38
347	0.000347	0.000942	0.007991	0.002556	-0.000038	0.000000	0.00000000	0.00000000	672	-0.004454578	-0.004269898	-54.2892526917	0.9585411651	1475.88
348	0.000348	0.000945	0.008007	0.0025219	-0.000038	0.000000	0.00000000	0.00000000	673	-0.004504680	-0.004324517	-54.4210953585	0.9600505413	1451.26
349	0.000349	0.000948	0.008022	0.002482	-0.000037	0.000000	0.00000000	0.00000000	674	-0.004554879	-0.004379262	-54.5557008960	0.9614443364	1426.52
350	0.000350	0.000951	0.008038	0.002445	-0.000037	0.000000	0.00000000	0.00000000	675	-0.004605171	-0.004434128	-54.6840079099	0.9628594328	1401.66
351	0.000351	0.000953	0.008053	0.002408	-0.000037	0.000000	0.00000000	0.00000000	676	-0.004655555	-0.004489108	-54.8325971367	0.9642475149	1376.69
352	0.000352	0.000956	0.008069	0.002370	-0.000036	0.000000	0.00000000	0.00000000	677	-0.004706028	-0.004544196	-54.9214897667	0.9656117688	1351.60
353	0.000353	0.000959	0.008084	0.002333	-0.000036	0.000000	0.00000000	0.00000000	678	-0.004756588	-0.004599386	-55.0305648702	0.9669597827	1326.41
354	0.000354	0.000961	0.008099	0.002295	-0.000036	0.000000	0.00000000	0.00000000	679	-0.004807232	-0.004654672	-55.1330774254	0.9682645467	1301.10
355	0.000355	0.000964	0.008114	0.002257	-0.000035	0.000000	0.00000000	0.00000000	680	-0.004857958	-0.004710047	-55.2290234688	0.9695529529	1275.69
356	0.000356	0.000967	0.008130	0.0022219	-0.000035	0.000000	0.00000000	0.00000000	681	-0.004908763	-0.004765505	-55.3183305191	0.9708158954	1250.18
357	0.000357	0.000969	0.008145	0.002185	-0.000034	0.000000	0.00000000	0.00000000	682	-0.004959546	-0.004820895	-55.4092957855	0.9720532703	1225.45
358	0.000358	0.000972	0.008160	0.002143	-0.000034	0.000000	0.00000000	0.00000000	683	-0.005010363	-0.004876644	-55.4798336607	0.9732649758	1198.84
359	0.000359	0.000975	0.008175	0.002105	-0.000034	0.000000	0.00000000	0.00000000	684	-0.005061633	-0.004932313	-55.5459312546	0.9744509115	1173.02
360	0.000360	0.000978	0.008190	0.002066	-0.000033	0.000000	0.00000000	0.00000000	685	-0.005112732	-0.004988038	-55.6081973631	0.9756109801	1147.10
361	0.000361	0.000980	0.008205	0.002028	-0.000033	0.000000	0.00000000	0.00000000	686	-0.005163836	-0.005043813	-55.6653571406	0.9767450866	1121.09
362	0.000362	0.000983	0.008219	0.001989	-0.000032	0.000000	0.00000000	0.00000000	687	-0.005215131	-0.005099632	-55.7120587727	0.9778513344	1094.89
363	0.000363	0.000986	0.008234	0.001950	-0.000032	0.000000	0.00000000	0.00000000	688	-0.005266425	-0.005154488	-55.7535702222	0.9789350407	1068.90
364	0.000364	0.000989	0.008249	0.001912	-0.000031	0.000000	0.00000000	0.00000000	689	-0.005317779	-0.005210174	-55.7886382503	0.9800090971	1042.51
365	0.000365	0.000991	0.008263	0.001872	-0.000031	0.000000	0.00000000	0.00000000	690	-0.005369190	-0.005267283	-55.8155581056	0.9810203041	1016.15
366	0.000366	0.000994	0.008278	0.001833	-0.000031	0.000000	0.00000000	0.00000000	691	-0.005420657	-0.005323210	-55.8399613143	0.9820292605	989.69
367	0.000367	0.000996	0.008293	0.001794	-0.000030	0.000000	0.00000000	0.00000000	692	-0.005472178	-0.005379179	-55.8542825419	0.9830293929	963.16
368	0.000368	0.000999	0.008307	0.001754	-0.000030	0.000000	0.00000000	0.00000000	693	-0.005523745	-0.005435085	-55.8554198400	0.9840492505	936.54
369	0.000369	0.001002	0.008321	0.001715	-0.000029	0.000000	0.00000000	0.00000000	694	-0.005575362	-0.005491021	-55.8540869441	0.9848274542	909.85
370	0.000370	0.001004	0.008336	0.001675	-0.000029	0.000000	0.00000000	0.00000000	695	-0.005627024	-0.005546945	-55.8462002420	0.9857859275	883.08
371	0.000371	0.001007	0.008350	0.001636	-0.000028	0.000000	0.00000000	0.00000000	696	-0.005678728	-0.005603052	-55.8310713414	0.9867359556	854.27
372	0.000372	0.001010	0.008364	0.001596	-0.000028	0.000000	0.00000000	0.00000000	697	-0.005730472	-0.005658734	-55.8090927620	0.9874413864	829.33
373	0.000373	0.001013	0.008378	0.001556	-0.000027	0.000000	0.00000000	0.00000000	698	-0.005782253	-0.005714585	-55.7781449562	0.9882972295	802.35
374	0.000374	0.001015	0.008392	0.001516	-0.000027	0.000000	0.00000000	0.00000000	699	-0.005834070	-0.005770698	-55.7409063252	0.9890680571	775.36
375	0.000375	0.001018	0.008406	0.001476	-0.000026	0.000000	0.00000000	0.00000000	700	-0.005885918	-0.005826163	-55.6963523330	0.9898470334	748.18
376	0.000376	0.001021	0.008420	0.001436	-0.000026	0.000000	0.00000000	0.00000000	701	-0.005937796	-0.005881877	-55.6448440204	0.9905824048	721.01
377	0.000377	0.001023	0.008434	0.001396	-0.000025	0.000000	0.00000000	0.00000000	702	-0.005989702	-0.005937530	-55.5826920160	0.9912890022	693.77
378	0.000378	0.001026	0.008448	0.001355	-0.000025	0.000000	0.00000000	0.00000000	703	-0.006041632	-0.005993117	-55.5187055885	0.9919699034	666.48
379	0.000379	0.001029	0.008462	0.001315	-0.000024	0.000000	0.00000000	0.00000000	704	-0.006093584	-0.006048630	-55.4447679877	0.9926272386	639.13
380	0.000380	0.001031	0.008475	0.001275	-0.000024	0.000000	0.00000000	0.00000000	705	-0.006145556	-0.006104062	-55.3634626754	0.9932481704	611.73
381	0.000381	0.001034	0.008489	0.001234	-0.000023	0.000000	0.00000000	0.00000000	706	-0.006197544	-0.006159405	-55.2747792048	0.9938461733	584.27
382	0.000382	0.001037	0.008503	0.001194	-0.000023	0.000000	0.00000000	0.00000000	707	-0.006249547	-0.006214654	-55.1787094816	0.9944166975	556.77
383	0.000383	0.001039	0.008516	0.001153	-0.000022	0.000000	0.00000000	0.00000000	708	-0.006301561	-0.006269799	-55.0752545417	0.9949599952	529.22
384	0.000384	0.001042	0.008530	0.001112	-0.000022	0.000000	0.00000000	0.00000000	709	-0.006353584	-0.006325358	-54.9641175816	0.9954711209	502.26
385	0.000385	0.001045	0.008543	0.001071	-0.000021	0.000000	0.00000000	0.00000000	710	-0.006405614	-0.006379755	-54.8461857486	0.9959623915	473.99
386	0.000386	0.001047	0.008556	0.001031	-0.000021	0.000000	0.00000000	0.00000000	711	-0.006457648	-0.006435560	-54.7205771983	0.9964250851	446.31
387	0.000387	0.001050	0.008569	0.000992	-0.000020	0.000000	0.00000000	0.00000000	712	-0.006509682	-0.006489144	-54.5925026911	0.9968955463	418.60
388	0.000388	0.001053	0.008583	0.000953	-0.000019	0.000000	0.00000000	0.00000000	713	-0.006561717	-0.006543740	-54.447		

448	0.000448	0.001214	0.009253	-0.001524	0.000018	0.000000	0.00000000	0.00000000	773	-0.009581171	-0.008648316	-31.640400414	0.90026366521	-1250.18
449	0.000449	0.001216	0.009262	-0.001564	0.000018	0.000000	0.00000000	0.00000000	774	-0.009628121	-0.008671364	-31.1480025903	0.9002689504	-1275.69
450	0.000450	0.001219	0.009271	-0.001604	0.000019	0.000000	0.00000000	0.00000000	775	-0.009674927	-0.008694118	-30.6563134079	0.8996255147	-1301.10
451	0.000451	0.001222	0.009280	-0.001643	0.000020	0.000000	0.00000000	0.00000000	776	-0.009721526	-0.008716579	-30.162396427	0.8986263653	-1326.41
452	0.000452	0.001224	0.009289	-0.001683	0.000020	0.000000	0.00000000	0.00000000	777	-0.009767975	-0.008738745	-29.6673275387	0.8984622021	-1351.60
453	0.000453	0.001227	0.009298	-0.001722	0.000021	0.000000	0.00000000	0.00000000	778	-0.009814523	-0.008761009	-29.171635903	0.8982642052	-1376.69
454	0.000454	0.001230	0.009307	-0.001762	0.000021	0.000000	0.00000000	0.00000000	779	-0.009860356	-0.008783219	-28.673974173	0.8980656549	-1401.66
455	0.000455	0.001232	0.009316	-0.001801	0.000022	0.000000	0.00000000	0.00000000	780	-0.009906282	-0.008803470	-28.175253848	0.8886754812	-1426.52
456	0.000456	0.001235	0.009324	-0.001841	0.000022	0.000000	0.00000000	0.00000000	781	-0.009952302	-0.008825721	-27.676734731	0.888687343	-1451.26
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459	0.000459	0.001243	0.009350	-0.001958	0.000024	0.000000	0.00000000	0.00000000	784	-0.010089168	-0.008886506	-26.1740579881	0.8887948368	-1524.76
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462	0.000462	0.001251	0.009375	-0.002074	0.000026	0.000000	0.00000000	0.00000000	787	-0.010222603	-0.008949405	-24.6674605000	0.8749302491	-1597.14
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465	0.000465	0.001259	0.009399	-0.002189	0.000027	0.000000	0.00000000	0.00000000	790	-0.010355269	-0.008999813	-23.1560456273	0.8691047096	-1668.36
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472	0.000472	0.001278	0.009453	-0.002452	0.000030	0.000000	0.00000000	0.00000000	797	-0.010657578	-0.009119286	-19.6223939560	0.8556621805	-1829.73
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475	0.000475	0.001286	0.009475	-0.002563	0.000032	0.000000	0.00000000	0.00000000	800	-0.010783880	-0.009165920	-18.1119263306	0.8499649334	-1896.72
476	0.000476	0.001289	0.009482	-0.002600	0.000032	0.000000	0.00000000	0.00000000	801	-0.010825529	-0.009181369	-17.6089693328	0.8480714203	-1918.76
477	0.000477	0.001291	0.009489	-0.002638	0.000033	0.000000	0.00000000	0.00000000	802	-0.010866948	-0.009196480	-17.1057357210	0.8461875568	-1940.63
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479	0.000479	0.001297	0.009503	-0.002709	0.000033	0.000000	0.00000000	0.00000000	804	-0.010949409	-0.009223814	-16.1056454505	0.8424275685	-1983.92
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481	0.000481	0.001302	0.009517	-0.002781	0.000034	0.000000	0.00000000	0.00000000	806	-0.011030284	-0.009250923	-15.0989882873	0.8386639883	-2026.58
482	0.000482	0.001305	0.009524	-0.002816	0.000035	0.000000	0.00000000	0.00000000	807	-0.011070251	-0.009264016	-14.5981364696	0.8368184412	-2047.67
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485	0.000485	0.001313	0.009544	-0.002923	0.000036	0.000000	0.00000000	0.00000000	810	-0.011189765	-0.009301455	-13.106974155	0.8312466611	-2109.97
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495	0.000495	0.001339	0.009606	-0.003265	0.000039	0.000000	0.00000000	0.00000000	820	-0.011570685	-0.009406280	-8.1965251077	0.8129406103	-2306.65
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500	0.000500	0.001352	0.009634	-0.003429	0.000040	0.000000	0.00000000	0.00000000	825	-0.011751391	-0.009447185	-5.786353642	0.8039383231	-2398.39
501	0.000501	0.001355	0.009640	-0.003461	0.000040	0.000000	0.00000000	0.00000000	826	-0.011788368	-0.009454448	-5.3198278800	0.8021517611	-2416.19
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691	0.000691	0.001856	0.009354	-0.004583	-0.000035	0.000000	0.00000000	0.00000000	1016	-0.012048730	-0.006340175	33.6841617002	0.5254185021	-2513.54
692	0.000692	0.001858	0.009346	-0.004560	-0.000035	0.000000	0.00000000	0.00000000	1017	-0.012012733	-0.006297673	33.6633766790	0.5242637680	-2501.68
693	0.000693	0.001861	0.009337	-0.004537	-0.000035	0.000000	0.00000000	0.00000000	1018	-0.011978409	-0.006265710	33.6414651757	0.5232083640	-2489.78
694	0.000694	0.001863	0.009329	-0.004514	-0.000035	0.000000	0.00000000	0.00000000	1019	-0.011943758	-0.006234068	33.6194209471	0.5222190142	-2478.23
695	0.000695	0.001866	0.009320	-0.004490	-0.000036	0.000000	0.00000000	0.00000000	1020	-0.011908782	-0.006202610	33.5942889651	0.5209759885	-2466.43
696	0.000696	0.001869	0.009312	-0.004467	-0.000036	0.000000	0.00000000	0.00000000	1021	-0.011873483	-0.006169471	33.5690573744	0.5196080502	-2454.60
697	0.000697	0.001871	0.009303	-0.004443	-0.000036	0.000000	0.00000000	0.00000000	1022	-0.011837861	-0.006137280	33.5427585801	0.5181460186	-2442.73
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700	0.000700	0.001879	0.009276	-0.004369	-0.000037	0.000000	0.00000000	0.00000000	1025	-0.011729060	-0.006040305	33.4576267623	0.5134930612	-2406.88
701	0.000701	0.001882	0.009267	-0.004344	-0.000038	0.000000	0.00000000	0.00000000	1026	-0.011692185	-0.006008008	33.4272299668	0.5118475239	-2394.86
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703	0.000703	0.001887	0.009249	-0.004294	-0.000038	0.000000	0.00000000	0.00000000	1028	-0.011617456	-0.005943073	33.3635111057	0.5115640879	-2370.73
704	0.000704	0.001889	0.009240	-0.004268	-0.000039	0.000000	0.00000000	0.00000000	1029	-0.011579564	-0.005910543	33.3302220024	0.5102811779	-2358.61
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714	0.000714	0.001915	0.009144	-0.003997	-0.000041	0.000000	0.00000000	0.00000000	1039	-0.011184596	-0.005583172	32.949325799	0.4991633627	-2236.04
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815	0.000815	0.002176	0.007807	-0.000283	-0.000015	0.000000	0.00000000	0.00000000	1140	-0.005899906	-0.002351564	26.3737259592	0.3986026750	-1062.04
816	0.000816	0.002178	0.007791	-0.000242	-0.000014	0.000000	0.00000000	0.00000000	1141	-0.005839978	-0.002322886	26.2902015697	0.3977059445	-1052.36
817	0.000817	0.002181	0.007774	-0.000201	-0.000014	0.000000	0.00000000	0.00000000	1142	-0.005779981	-0.002293612	26.2112710112	0.3968171864	-1042.73
818	0.000818	0.002183	0.007758	-0.000158	-0.000013	0.000000	0.00000000	0.00000000	1143	-0.005719918	-0.002265021	26.1370465308	0.3959388363	-1033.16
819	0.000819	0.002186	0.007741	-0.000117	-0.000012	0.000000	0.00000000	0.00000000	1144	-0.005659792	-0.002236227	26.0577801933	0.3950715699	-1023.63
820	0.000820	0.002188	0.007725	-0.000075	-0.000012	0.000000	0.00000000	0.00000000	1145	-0.005599604	-0.002207252	25.9783283939	0.3942127028	-1014.17
821	0.000821	0.002191	0.007708	-0.000034	-0.000011	0.000000	0.00000000	0.00000000	1146	-0.005539357	-0.002178916	25.8989914094	0.3933517906	-1004.75
822	0.000822	0.002194	0.007691	-0.000008	-0.000011	0.000000	0.00000000	0.00000000	1147	-0.005479054	-0.002150402	25.8189894902	0.3924976820	-995.39
823	0.000823	0.002196	0.007675	-0.000050	-0.000010	0.000000	0.00000000	0.00000000	1148	-0.005418997	-0.002121982	25.7386218622	0.3916038137	-986.08
824	0.000824	0.002199	0.007658	-0.000091	-0.000009	0.000000	0.00000000	0.00000000	1149	-0.005358288	-0.002093569	25.6586717282	0.3907237403	-976.83
825	0.000825	0.002201	0.007641	-0.000133	-0.000009	0.000000	0.00000000	0.00000000	1150	-0.005297830	-0.002065431	25.5782962701	0.3898636044	-967.63
826	0.000826	0.002204	0.007624	-0.000175	-0.000008	0.000000	0.00000000	0.00000000	1151	-0.005237325	-0.002037301	25.4973786502	0.3889940418	-958.49
827	0.000827	0.002206	0.007607	-0.000216	-0.000008	0.000000	0.00000000	0.00000000	1152	-0.005176778	-0.002009268	25.4169390132	0.3881311253	-949.40
828	0.000828	0.002209	0.007590	-0.000258	-0.000007	0.000000	0.00000000	0.00000000	1153	-0.005116184	-0.001981333	25.3360654876	0.3872677794	-940.37
829	0.000829	0.002211	0.007573	-0.000299	-0.000006	0.000000	0.00000000	0.00000000	1154	-0.005055553	-0.001953498	25.2549541876	0.3864003509	-931.39
830	0.000830	0.002214	0.007555	-0.000341	-0.000006	0.000000	0.00000000	0.00000000	1155	-0.004994885	-0.001925762	25.173652143	0.3855458385	-922.46
831	0.000831	0.002217	0.007538	-0.000382	-0.000005	0.000000	0.00000000	0.00000000	1156	-0.004934183	-0.001898127	25.092106577	0.3846982381	-913.59
832	0.000832	0.002219	0.007521	-0.000424	-0.000004	0.000000	0.00000000	0.00000000	1157	-0.004873448	-0.001870593	25.0101585981	0.3838535452	-904.78
833	0.000833	0.002222	0.007503	-0.000465	-0.000004	0.000000	0.00000000	0.00000000	1158	-0.004812683	-0.001843060	24.928271077	0.3829297558	-896.02
834	0.000834	0.002224	0.007486	-0.000507	-0.000003	0.000000	0.00000000	0.00000000	1159	-0.004751980	-0.001815530	24.8466442519	0.3821278655	-887.31
835	0.000835	0.002227	0.007469	-0.000548	-0.000002	0.000000	0.00000000	0.00000000	1160	-0.004691073	-0.001788002	24.7643203910	0.3812776701	-878.66
836	0.000836	0.002229	0.007451	-0.000590	-0.000002	0.000000	0.00000000	0.00000000	1161	-0.004630322	-0.001761478	24.6820368816	0.3804297854	-870.07
837	0.000837	0.002232	0.007433	-0.000631	-0.000001	0.000000	0.00000000	0.00000000	1162	-0.004569372	-0.001734468	24.5994860798	0.3795835472	-861.53
838	0.000838	0.002234	0.007416	-0.000672	0.000000	0.000000	0.00000000	0.00000000	1163	-0.004508494	-0.001707543	24.5169663337	0.3787392114	-853.05
839	0.000839	0.002237	0.007398	-0.000714	0.000000	0.000000	0.00000000	0.00000000	1164	-0.004447600	-0.001680734	24.4337515026	0.3778976736	-844.62
840	0.000840	0.002239	0.007380	-0.000755	0.000000	0.000000	0.00000000	0.00000000	1165	-0.004386893	-0.001653940	24.3503285407	0.3770564860	-836.25
841	0.000841	0.002242	0.007363	-0.000796	0.000001	0.000000	0.00000000	0.00000000	1166	-0.004325776	-0.001627432	24.2673128069	0.3762174558	-827.93
842	0.000842	0.002245	0.007345	-0.000837	0.000002	0.000000	0.00000000	0.00000000	1167	-0.004264850	-0.001600942	24.1838190648	0.3753800673	-819.67
843	0.000843	0.002247	0.007328	-0.000878	0.000003	0.000000	0.00000000	0.00000000	1168	-0.004203916	-0.001574559	24.1007434934	0.3745456504	-811.46
844	0.000844	0.002250	0.007309	-0.000920	0.000003	0.000000	0.00000000	0.00000000	1169	-0.004142983	-0.001548265	24.0162831404	0.3737124807	-803.31
845	0.000845	0.002252	0.007291	-0.000961	0.000004	0.000000	0.00000000	0.00000000	1170	-0.004082047	-0.001522119	23.9322411219	0.3728812143	-795.22
846	0.000846	0.002255	0.007273	-0.001002	0.000005	0.000000	0.00000000	0.00000000	1171	-0.004021112	-0.001496062	23.8480165141	0.3720571869	-787.18
847	0.000847	0.002257	0.007255	-0.001043	0.000005	0.000000	0.00000000	0.00000000	1172	-0.003960181	-0.001469714	23.7636021244	0.3712392045	-779.20
848	0.000848	0.002260	0.007236	-0.001083	0.000006	0.000000	0.00000000	0.00000000	1173	-0.003899256	-0.001443279	23.6791019840	0.3703984629	-771.27
849	0.000849	0.002262	0.007218	-0.001124	0.000007	0.000000	0.00000000	0.00000000	1174	-0.003838340	-0.001418553	23.5942483051	0.3695674581	-763.39
850	0.000850	0.002265	0.007200	-0.001165	0.000007	0.000000	0.00000000	0.00000000	1175	-0.003777434	-0.001393745	23.5092945370	0.3687354806	-755.58
851	0.000851	0.002267	0.007182	-0.001205	0.000008	0.000000	0.00000000	0.00000000	1176	-0.003716542	-0.001367436	23.4241588382	0.3679232851	-747.82
852	0.000852	0.002270	0.007163	-0.001246	0.000008	0.000000	0.00000000	0.00000000	1177	-0.003655665	-0.001342405	23.3388413836	0.3671138235	-740.11
853	0.000853	0.002273	0.007145	-0.001287	0.000009	0.000000	0.00000000	0.00000000	1178	-0.003594806	-0.001317490	23.2533423500	0.3663072247	-732.46
854	0.000854	0.002275	0.007126	-0.001327	0.000010	0.000000	0.00000000	0.00000000	1179	-0.003533967	-0.001292603	23.1676619926	0.3655034548	-724.86
855	0.000855	0.002278	0.007108	-0.001367	0.000010	0.000000	0.00000000	0.00000000	1180	-0.003473152	-0.001267552	23.0818004945	0.3646984731	-717.32
856	0.000856	0.002280	0.007089	-0.001407	0.000011	0.000000	0.00000000	0.00000000	1181	-0.003412361	-0.001242616	22.9957581227	0.3638958317	-709.83
857	0.000857	0.002283	0.007070	-0.001448	0.000012	0.000000	0.00000000	0.00000000	1182	-0.003351597	-0.001217674	22.9093081448	0.3630949546	-702.40
858	0.000858	0.002285	0.007052	-0.001488	0.000012	0.000000	0.00000000	0.00000000	1183	-0.003290864	-0.001192807	22.8231318536	0.3622913679	-695.03
859	0.000859	0.002288	0.007033	-0.001528	0.000013	0.000000	0.00000000	0.00000000	1184	-0.003230162	-0.001167496	22.7365485639	0.3614836734	-687.71
860	0.000860	0.002290	0.007014	-0.001568	0.000014	0.000000	0.00000000	0.00000000	1185	-0.003169498	-0.001142320	22.6497851432	0.3606716653	-680.44
861	0.000861	0.002293	0.006995	-0.001607	0.000014	0.000000	0.00000000	0.00000000	1186	-0.003108864	-0.001116661	22.5628433671	0.3598249845	-673.23
862	0.000862	0.002295	0.006976	-0.001647	0.000015	0.000000	0.00000000	0.00000000	1187	-0.003048273	-0.001091449	22.4757221005	0.3589502041	-666.07
863	0.000863	0.002298	0.006957	-0.001687	0.000015	0.000000	0.00000000	0.00000000	1188	-0.002987723	-0.001066278	22.3884225504	0.3580634700	-658.97
864	0.000864	0.002300	0.006938	-0.001728	0.0000									

924	0.000924	0.002452	0.005707	0.003835	0.000041	0.000000	0.00000000	0.00000000	1249	0.000538689	0.000168464	16.762732817	0.3127295040	-322.35
925	0.000925	0.002454	0.005685	0.003864	0.000041	0.000000	0.00000000	0.00000000	1250	0.000592377	0.000148482	16.6666663696	0.312038765	-318.27
926	0.000926	0.002457	0.005663	0.003903	0.000042	0.000000	0.00000000	0.00000000	1251	0.000645491	0.000138591	16.5713216225	0.3113017864	-314.24
927	0.000927	0.002459	0.005641	0.003922	0.000042	0.000000	0.00000000	0.00000000	1252	0.000699228	0.00012713	16.473947182	0.310472602	-310.25
928	0.000928	0.002462	0.005619	0.003951	0.000042	0.000000	0.00000000	0.00000000	1253	0.000752386	0.000123207	16.3775903669	0.3099562644	-306.31
929	0.000929	0.002464	0.005597	0.003979	0.000042	0.000000	0.00000000	0.00000000	1254	0.000805923	0.000118406	16.282098385	0.3094680057	-302.40
930	0.000930	0.002467	0.005575	0.004008	0.000042	0.000000	0.00000000	0.00000000	1255	0.000859561	0.000112610	16.184603210	0.3089758830	-298.53
931	0.000931	0.002469	0.005553	0.004036	0.000042	0.000000	0.00000000	0.00000000	1256	0.000910774	0.000106240	16.0879402089	0.3084924856	-294.70
932	0.000932	0.002472	0.005530	0.004064	0.000042	0.000000	0.00000000	0.00000000	1257	0.000963921	0.000100438	15.9912538036	0.3080176175	-290.92
933	0.000933	0.002474	0.005508	0.004092	0.000042	0.000000	0.00000000	0.00000000	1258	0.001015441	0.000094751	15.8945503938	0.3075472728	-287.17
934	0.000934	0.002477	0.005486	0.004119	0.000042	0.000000	0.00000000	0.00000000	1259	0.001067492	0.000088644	15.7976936146	0.3070824441	-283.46
935	0.000935	0.002479	0.005464	0.004146	0.000043	0.000000	0.00000000	0.00000000	1260	0.001119352	0.0000821584	15.7002655615	0.3066212480	-279.79
936	0.000936	0.002482	0.005441	0.004173	0.000043	0.000000	0.00000000	0.00000000	1261	0.001171918	0.0000757019	15.6030403300	0.3061614400	-276.16
937	0.000937	0.002484	0.005419	0.004200	0.000043	0.000000	0.00000000	0.00000000	1262	0.001222492	0.00006917401	15.5069287600	0.3057036063	-272.57
938	0.000938	0.002487	0.005396	0.004226	0.000043	0.000000	0.00000000	0.00000000	1263	0.001273769	0.00006268118	15.4099595257	0.3052481029	-269.01
939	0.000939	0.002489	0.005374	0.004252	0.000043	0.000000	0.00000000	0.00000000	1264	0.001324849	0.0000562078	15.3128372751	0.3047965067	-265.50
940	0.000940	0.002492	0.005351	0.004278	0.000043	0.000000	0.00000000	0.00000000	1265	0.001375729	0.0000491572	15.2157261743	0.304353214	-262.02
941	0.000941	0.002494	0.005329	0.004304	0.000043	0.000000	0.00000000	0.00000000	1266	0.001426408	0.0000429508	15.118576162	0.30391119525	-258.58
942	0.000942	0.002497	0.005306	0.004329	0.000043	0.000000	0.00000000	0.00000000	1267	0.001476984	0.0000367201	15.0213887201	0.3034621668	-255.18
943	0.000943	0.002499	0.005283	0.004354	0.000043	0.000000	0.00000000	0.00000000	1268	0.001527156	0.00003057602	14.9241686312	0.3029738710	-251.81
944	0.000944	0.002502	0.005261	0.004379	0.000043	0.000000	0.00000000	0.00000000	1269	0.001577222	0.0000241758	14.8269185198	0.3024910617	-248.48
945	0.000945	0.002504	0.005238	0.004404	0.000043	0.000000	0.00000000	0.00000000	1270	0.001627081	0.00001845589	14.7296415814	0.30204417357	-245.19
946	0.000946	0.002507	0.005215	0.004428	0.000043	0.000000	0.00000000	0.00000000	1271	0.001676730	0.0000129253	14.6323241058	0.3015778896	-241.93
947	0.000947	0.002509	0.005192	0.004452	0.000043	0.000000	0.00000000	0.00000000	1272	0.001726168	0.00000712871	14.5350201264	0.301155201	-238.71
948	0.000948	0.002512	0.005170	0.004476	0.000043	0.000000	0.00000000	0.00000000	1273	0.001775384	0.00000126324	14.4376821204	0.30074546240	-235.52
949	0.000949	0.002514	0.005147	0.004499	0.000043	0.000000	0.00000000	0.00000000	1274	0.001824407	0.00000538651	14.3403303077	0.30035951979	-232.37
950	0.000950	0.002517	0.005124	0.004523	0.000043	0.000000	0.00000000	0.00000000	1275	0.001873203	0.00000952852	14.24296860329	0.3000000000	-229.25
951	0.000951	0.002519	0.005101	0.004546	0.000043	0.000000	0.00000000	0.00000000	1276	0.001921782	0.00000369528	14.1456985329	0.3004400000	-226.17
952	0.000952	0.002522	0.005078	0.004569	0.000042	0.000000	0.00000000	0.00000000	1277	0.001970713	0.000007143	14.048252604	0.3000000000	-223.12
953	0.000953	0.002524	0.005055	0.004591	0.000042	0.000000	0.00000000	0.00000000	1278	0.002019284	0.0000091705	13.9505615594	0.3000000000	-220.11
954	0.000954	0.002527	0.005032	0.004613	0.000042	0.000000	0.00000000	0.00000000	1279	0.002068203	0.0000014006	13.8534802685	0.3000000000	-217.13
955	0.000955	0.002529	0.005009	0.004635	0.000042	0.000000	0.00000000	0.00000000	1280	0.002117389	0.0000116892	13.7561164780	0.3000000000	-214.19
956	0.000956	0.002532	0.004986	0.004658	0.000042	0.000000	0.00000000	0.00000000	1281	0.002166730	0.0000159434	13.6587619496	0.3000000000	-211.22
957	0.000957	0.002534	0.004962	0.004679	0.000042	0.000000	0.00000000	0.00000000	1282	0.002206815	0.0000041763	13.5614209557	0.3000000000	-208.40
958	0.000958	0.002537	0.004939	0.004700	0.000042	0.000000	0.00000000	0.00000000	1283	0.002255633	0.0000033867	13.4640961889	0.3000000000	-205.55
959	0.000959	0.002539	0.004916	0.004721	0.000042	0.000000	0.00000000	0.00000000	1284	0.002304242	0.000002422	13.3667919197	0.3000000000	-202.74
960	0.000960	0.002542	0.004892	0.004741	0.000042	0.000000	0.00000000	0.00000000	1285	0.002348980	0.0000017804	13.2695113944	0.3000000000	-199.96
961	0.000961	0.002544	0.004869	0.004762	0.000041	0.000000	0.00000000	0.00000000	1286	0.0023938307	0.0000088838	13.1722581380	0.3000000000	-197.21
962	0.000962	0.002547	0.004846	0.004783	0.000041	0.000000	0.00000000	0.00000000	1287	0.002438766	0.000014400	13.0750269922	0.3000000000	-194.49
963	0.000963	0.002549	0.004822	0.004801	0.000041	0.000000	0.00000000	0.00000000	1288	0.002483758	0.000013136	12.9779476064	0.3000000000	-191.80
964	0.000964	0.002552	0.004799	0.004821	0.000041	0.000000	0.00000000	0.00000000	1289	0.002528281	0.0000124602	12.8806974570	0.3000000000	-189.15
965	0.000965	0.002554	0.004775	0.004840	0.000041	0.000000	0.00000000	0.00000000	1290	0.002572626	0.0000139945	12.7853888270	0.3000000000	-186.52
966	0.000966	0.002557	0.004752	0.004859	0.000040	0.000000	0.00000000	0.00000000	1291	0.002617315	0.0000147166	12.6904007370	0.3000000000	-183.93
967	0.000967	0.002559	0.004728	0.004878	0.000040	0.000000	0.00000000	0.00000000	1292	0.002666320	0.0000158265	12.598510333	0.3000000000	-181.37
968	0.000968	0.002562	0.004705	0.004896	0.000040	0.000000	0.00000000	0.00000000	1293	0.002711295	0.0000169243	12.4925481094	0.3000000000	-178.84
969	0.000969	0.002564	0.004681	0.004915	0.000040	0.000000	0.00000000	0.00000000	1294	0.002757349	0.0000180938	12.3985416716	0.3000000000	-176.33
970	0.000970	0.002567	0.004657	0.004932	0.000040	0.000000	0.00000000	0.00000000	1295	0.002803586	0.0000193035	12.2987948777	0.3000000000	-173.86
971	0.000971	0.002569	0.004634	0.004949	0.000039	0.000000	0.00000000	0.00000000	1296	0.002848520	0.0000140450	12.2020113845	0.3000000000	-171.42
972	0.000972	0.002572	0.004610	0.004966	0.000039	0.000000	0.00000000	0.00000000	1297	0.002893279	0.0000152258	12.1052862515	0.3000000000	-169.00
973	0.000973	0.002574	0.004586	0.004984	0.000039	0.000000	0.00000000	0.00000000	1298	0.002938247	0.0000082219	12.0084689925	0.3000000000	-166.62
974	0.000974	0.002577	0.004563	0.005000	0.000038	0.000000	0.00000000	0.00000000	1299	0.002979537	0.0000032573	11.9120774643	0.3000000000	-164.26
975	0.000975	0.002579	0.004539	0.005017	0.000038	0.000000	0.00000000	0.00000000	1300	0.0030201778	0.0000042709	11.8158539771	0.3000000000	-161.93
976	0.000976	0.002582	0.004515	0.005033	0.000038	0.000000	0.00000000	0.00000000	1301	0.003061467	0.0000052724	11.7171272384	0.3000000000	-159.63
977	0.000977	0.002584	0.004491	0.005048	0.000038	0.000000	0.00000000	0.00000000	1302	0.003103904	0.0000062621	11.6224859634	0.3000000000	-157.38
978	0.000978	0.002587	0.004467	0.005064	0.000037	0.000000	0.00000000	0.00000000	1303	0.003146087	0.0000072400	11.5269688748	0.3000000000	-155.11
979	0.000979	0.002589	0.004443	0.005079	0.000037	0.000000	0.00000000	0.00000000	1304	0.003188915	0.0000082960	11.4304647021	0.3000000000	-152.89
980	0.000980	0.002591	0.004419	0.005094	0.000037	0.000000	0.00000000	0.00000000	1305	0.003232987	0.0000091602	11.3344711809	0.3000000000	-150.70
981	0.000981	0.002594	0.004395	0.005108	0.000036	0.000000	0.00000000	0.00000000	1306	0.003277102	0.0000091027	11.2384705227	0.3000000000	-148.54
982	0.000982	0.002596	0.004371	0.005123	0.000036	0.000000	0.00000000	0.00000000	1307	0.003321325	0.0000091027	11.1426270640	0.3000000000	-146.40
983	0.000983	0.002599												

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1162	0.001162	0.000305	-0.000308	0.002803	-0.000042	0.000000	0.00000000	0.00000000	1487	0.006187510	0.001138971	-1.2106192365	0.1840758446	-6.56
1163	0.001163	0.000307	-0.000335	0.002767	-0.000042	0.000000	0.00000000	0.00000000	1488	0.006180886	0.001135221	-1.239942958	0.1836693910	-6.43
1164	0.001164	0.000309	-0.000362	0.002732	-0.000042	0.000000	0.00000000	0.00000000	1489	0.006174498	0.001131450	-1.2693214321	0.1832517462	-6.30
1165	0.001165	0.000342	-0.000388	0.002655	-0.000042	0.000000	0.00000000	0.00000000	1490	0.006167117	0.001127659	-1.2972002820	0.1828502142	-6.17
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1170	0.001170	0.000354	-0.000524	0.002512	-0.000042	0.000000	0.00000000	0.00000000	1495	0.006129746	0.001108415	-1.4318395617	0.1808255047	-5.58
1171	0.001171	0.000356	-0.000550	0.002475	-0.000041	0.000000	0.00000000	0.00000000	1496	0.006121781	0.001104513	-1.4573248829	0.1804323809	-5.47
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1173	0.001173	0.000361	-0.000603	0.002400	-0.000041	0.000000	0.00000000	0.00000000	1498	0.006105379	0.001096658	-1.5068552081	0.1796216153	-5.25
1174	0.001174	0.000363	-0.000630	0.002363	-0.000041	0.000000	0.00000000	0.00000000	1499	0.006096845	0.001092737	-1.5309122250	0.1792226650	-5.15
1175	0.001175	0.000365	-0.000657	0.002325	-0.000041	0.000000	0.00000000	0.00000000	1500	0.006088359	0.001088741	-1.5544848326	0.1788234127	-5.05
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1177	0.001177	0.000370	-0.000710	0.002250	-0.000040	0.000000	0.00000000	0.00000000	1502	0.006070736	0.001080744	-1.6002094999	0.1780307571	-4.84
1178	0.001178	0.000373	-0.000737	0.002212	-0.000040	0.000000	0.00000000	0.00000000	1503	0.006061704	0.001076757	-1.6223613822	0.1776327545	-4.75
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1183	0.001183	0.000384	-0.000871	0.002020	-0.000039	0.000000	0.00000000	0.00000000	1508	0.006014421	0.001056529	-1.7265058308	0.1756659153	-4.28
1184	0.001184	0.000387	-0.000898	0.001981	-0.000038	0.000000	0.00000000	0.00000000	1509	0.006004555	0.001052449	-1.7453953105	0.1752751686	-4.20
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1188	0.001188	0.000396	-0.001005	0.001825	-0.000037	0.000000	0.00000000	0.00000000	1513	0.005963792	0.001036035	-1.8190971155	0.1737200540	-3.86
1189	0.001189	0.000399	-0.001032	0.001786	-0.000037	0.000000	0.00000000	0.00000000	1514	0.005953289	0.001031910	-1.8375119004	0.1733344338	-3.78
1190	0.001190	0.000401	-0.001059	0.001747	-0.000037	0.000000	0.00000000	0.00000000	1515	0.005942664	0.001027787	-1.8518921500	0.1729487211	-3.71
1191	0.001191	0.000403	-0.001085	0.001707	-0.000036	0.000000	0.00000000	0.00000000	1516	0.005931920	0.001023637	-1.8677873522	0.1725641403	-3.63
1192	0.001192	0.000406	-0.001112	0.001668	-0.000036	0.000000	0.00000000	0.00000000	1517	0.005921060	0.001019490	-1.883437105	0.1721803228	-3.55
1193	0.001193	0.000408	-0.001138	0.001628	-0.000035	0.000000	0.00000000	0.00000000	1518	0.005910306	0.001015337	-1.8986317125	0.1717973293	-3.48
1194	0.001194	0.000411	-0.001165	0.001588	-0.000035	0.000000	0.00000000	0.00000000	1519	0.005899699	0.001011178	-1.9137355261	0.1714151878	-3.41
1195	0.001195	0.000413	-0.001192	0.001548	-0.000035	0.000000	0.00000000	0.00000000	1520	0.005889702	0.001007014	-1.9276663050	0.1710338662	-3.34
1196	0.001196	0.000415	-0.001218	0.001508	-0.000034	0.000000	0.00000000	0.00000000	1521	0.005879498	0.001002845	-1.9415070892	0.1706534528	-3.27
1197	0.001197	0.000418	-0.001245	0.001467	-0.000034	0.000000	0.00000000	0.00000000	1522	0.005868987	0.000998671	-1.9549494991	0.1702738657	-3.21
1198	0.001198	0.000420	-0.001272	0.001428	-0.000034	0.000000	0.00000000	0.00000000	1523	0.005858574	0.000994404	-1.9678448214	0.1698951029	-3.14
1199	0.001199	0.000422	-0.001298	0.001388	-0.000033	0.000000	0.00000000	0.00000000	1524	0.005848195	0.000990313	-1.9803444367	0.1695071926	-3.07
1200	0.001200	0.000425	-0.001325	0.001348	-0.000033	0.000000	0.00000000	0.00000000	1525	0.005837826	0.000986224	-1.9924013716	0.1691192229	-3.00
1201	0.001201	0.000427	-0.001352	0.001307	-0.000032	0.000000	0.00000000	0.00000000	1526	0.005827436	0.000982142	-2.0040157732	0.1687338520	-2.94
1202	0.001202	0.000429	-0.001378	0.001267	-0.000032	0.000000	0.00000000	0.00000000	1527	0.005817052	0.000977753	-2.0151898120	0.1683484979	-2.88
1203	0.001203	0.000432	-0.001405	0.001226	-0.000032	0.000000	0.00000000	0.00000000	1528	0.005794535	0.000973553	-2.0259251837	0.1679619389	-2.82
1204	0.001204	0.000434	-0.001431	0.001185	-0.000031	0.000000	0.00000000	0.00000000	1529	0.005782448	0.000969371	-2.0367402624	0.1675742130	-2.76
1205	0.001205	0.000437	-0.001458	0.001145	-0.000031	0.000000	0.00000000	0.00000000	1530	0.005770275	0.000965178	-2.0468688302	0.1671873185	-2.70
1206	0.001206	0.000439	-0.001485	0.001104	-0.000030	0.000000	0.00000000	0.00000000	1531	0.005758016	0.000960986	-2.0555166189	0.1668002533	-2.65
1207	0.001207	0.000441	-0.001511	0.001063	-0.000030	0.000000	0.00000000	0.00000000	1532	0.005745874	0.000956793	-2.0645176032	0.1664137603	-2.59
1208	0.001208	0.000444	-0.001538	0.001023	-0.000029	0.000000	0.00000000	0.00000000	1533	0.005733251	0.000952600	-2.0730303752	0.1660253641	-2.54
1209	0.001209	0.000446	-0.001564	0.000982	-0.000029	0.000000	0.00000000	0.00000000	1534	0.005720750	0.000948409	-2.0812234003	0.1656374013	-2.48
1210	0.001210	0.000448	-0.001591	0.000941	-0.000028	0.000000	0.00000000	0.00000000	1535	0.005708173	0.000944216	-2.0895975996	0.1652491626	-2.43
1211	0.001211	0.000451	-0.001617	0.000900	-0.000028	0.000000	0.00000000	0.00000000	1536	0.005695522	0.000940031	-2.0962275491	0.1648673052	-2.38
1212	0.001212	0.000453	-0.001644	0.000859	-0.000027	0.000000	0.00000000	0.00000000	1537	0.005682799	0.000935844	-2.1030951639	0.1644801782	-2.33
1213	0.001213	0.000455	-0.001670	0.000817	-0.000027	0.000000	0.00000000	0.00000000	1538	0.005670007	0.000931661	-2.1095423706	0.1641318678	-2.28
1214	0.001214	0.000458	-0.001697	0.000776	-0.000026	0.000000	0.00000000	0.00000000	1539	0.005657149	0.000927480	-2.1155711205	0.1637843723	-2.23
1215	0.001215	0.000460	-0.001723	0.000735	-0.000026	0.000000	0.00000000	0.00000000	1540	0.005644226	0.000923303	-2.1213837870	0.1634358698	-2.18
1216	0.001216	0.000462	-0.001750	0.000694	-0.000025	0.000000	0.00000000	0.00000000	1541	0.005631240	0.000919130	-2.1263811654	0.1630819814	-2.14
1217	0.001217	0.000465	-0.001777	0.000653	-0.000025	0.000000	0.00000000	0.00000000	1542	0.005618195	0.000914961	-2.1311684721	0.1627286765	-2.09
1218	0.001218	0.000467	-0.001803	0.000611	-0.000024	0.000000	0.00000000	0.00000000	1543	0.005605092	0.000910787	-2.1355413451	0.1623494501	-2.05
1219	0.001219	0.000470	-0.001829	0.000570	-0.000024	0.000000	0.00000000	0.00000000	1544	0.005591934	0.000906637	-2.1395707834	0.1619330535	-2.00
1220	0.001220	0.000472	-0.001855	0.000528	-0.000023	0.000000	0.00000000	0.00000000	1545	0.005578723	0.000902484	-2.1432663469	0.1615172469	-1.96
1221	0.001221	0.000474	-0.001882	0.000487	-0.000023	0.000000	0.00000000	0.00000000	1546	0.005565462	0.000898336	-2.1462240558	0.1611142565	-1.92
1222	0.001222	0.000477	-0.001908	0.00044										

1281	0.001281	0.003314	-0.003432	-0.001965	0.000014	0.000000	0.00000000	0.00000000	1606	0.004766646	0.000673168	-1.685801563	0.1412247370	-0.49
1282	0.001282	0.003316	-0.003457	-0.002004	0.000015	0.000000	0.00000000	0.00000000	1607	0.004754757	0.000669996	-1.6689393144	0.1409190004	-0.48
1283	0.001283	0.003319	-0.003482	-0.002041	0.000016	0.000000	0.00000000	0.00000000	1608	0.004742963	0.000666817	-1.6518332451	0.1405911625	-0.47
1284	0.001284	0.003321	-0.003508	-0.002081	0.000016	0.000000	0.00000000	0.00000000	1609	0.004731265	0.000663723	-1.6344862652	0.1402842417	-0.46
1285	0.001285	0.003323	-0.003533	-0.002120	0.000017	0.000000	0.00000000	0.00000000	1610	0.004719666	0.000660623	-1.6169012841	0.1399732767	-0.45
1286	0.001286	0.003326	-0.003558	-0.002159	0.000018	0.000000	0.00000000	0.00000000	1611	0.004708167	0.000657525	-1.5996912155	0.1396610257	-0.44
1287	0.001287	0.003328	-0.003583	-0.002196	0.000018	0.000000	0.00000000	0.00000000	1612	0.004696771	0.000654467	-1.5810289774	0.1393503477	-0.43
1288	0.001288	0.003330	-0.003608	-0.002234	0.000019	0.000000	0.00000000	0.00000000	1613	0.004685480	0.000651471	-1.5627747818	0.1390404000	-0.42
1289	0.001289	0.003333	-0.003633	-0.002272	0.000019	0.000000	0.00000000	0.00000000	1614	0.004674297	0.000648490	-1.5442926941	0.1387311221	-0.41
1290	0.001290	0.003335	-0.003658	-0.002310	0.000020	0.000000	0.00000000	0.00000000	1615	0.004663122	0.000645495	-1.5255084834	0.1384235322	-0.40
1291	0.001291	0.003337	-0.003683	-0.002347	0.000020	0.000000	0.00000000	0.00000000	1616	0.004652260	0.000642454	-1.5065568220	0.1381142686	-0.39
1292	0.001292	0.003339	-0.003708	-0.002385	0.000021	0.000000	0.00000000	0.00000000	1617	0.004641411	0.000639362	-1.4873876348	0.1378074100	-0.38
1293	0.001293	0.003342	-0.003732	-0.002422	0.000021	0.000000	0.00000000	0.00000000	1618	0.004630638	0.000636322	-1.4683036878	0.1375003872	-0.37
1294	0.001294	0.003344	-0.003757	-0.002459	0.000022	0.000000	0.00000000	0.00000000	1619	0.004620062	0.000633300	-1.4484084372	0.1371950214	-0.36
1295	0.001295	0.003346	-0.003782	-0.002496	0.000022	0.000000	0.00000000	0.00000000	1620	0.004609567	0.000631003	-1.4286043094	0.1368898843	-0.36
1296	0.001296	0.003349	-0.003807	-0.002533	0.000023	0.000000	0.00000000	0.00000000	1621	0.004599194	0.000628135	-1.4085944208	0.1365865420	-0.35
1297	0.001297	0.003351	-0.003832	-0.002570	0.000024	0.000000	0.00000000	0.00000000	1622	0.004588945	0.000625388	-1.3883817175	0.1362815371	-0.34
1298	0.001298	0.003353	-0.003856	-0.002607	0.000024	0.000000	0.00000000	0.00000000	1623	0.004578823	0.000622621	-1.3679691470	0.1359783969	-0.33
1299	0.001299	0.003356	-0.003881	-0.002643	0.000025	0.000000	0.00000000	0.00000000	1624	0.004568828	0.000619880	-1.3473565502	0.1356795921	-0.32
1300	0.001300	0.003358	-0.003906	-0.002680	0.000025	0.000000	0.00000000	0.00000000	1625	0.004558965	0.000617166	-1.3265556207	0.1353741351	-0.31
1301	0.001301	0.003360	-0.003930	-0.002716	0.000026	0.000000	0.00000000	0.00000000	1626	0.004549234	0.000614479	-1.3056517251	0.1350703013	-0.31
1302	0.001302	0.003363	-0.003955	-0.002752	0.000026	0.000000	0.00000000	0.00000000	1627	0.004539537	0.000611818	-1.2843791823	0.1347725594	-0.30
1303	0.001303	0.003365	-0.003980	-0.002788	0.000027	0.000000	0.00000000	0.00000000	1628	0.004529817	0.000609195	-1.2630115235	0.1344727748	-0.29
1304	0.001304	0.003367	-0.004004	-0.002823	0.000027	0.000000	0.00000000	0.00000000	1629	0.004520286	0.000606580	-1.2414616999	0.1341736570	-0.29
1305	0.001305	0.003369	-0.004029	-0.002859	0.000028	0.000000	0.00000000	0.00000000	1630	0.004511675	0.000604001	-1.2197326626	0.1338752046	-0.28
1306	0.001306	0.003372	-0.004053	-0.002894	0.000028	0.000000	0.00000000	0.00000000	1631	0.004503237	0.000601451	-1.1978273620	0.1335774160	-0.27
1307	0.001307	0.003374	-0.004078	-0.002929	0.000029	0.000000	0.00000000	0.00000000	1632	0.004493744	0.000598927	-1.1757487480	0.1332802898	-0.27
1308	0.001308	0.003376	-0.004102	-0.002964	0.000029	0.000000	0.00000000	0.00000000	1633	0.004484997	0.000596432	-1.1534997696	0.1329838246	-0.26
1309	0.001309	0.003379	-0.004127	-0.002998	0.000030	0.000000	0.00000000	0.00000000	1634	0.004476399	0.000593964	-1.1318032744	0.1326880168	-0.25
1310	0.001310	0.003381	-0.004151	-0.003030	0.000030	0.000000	0.00000000	0.00000000	1635	0.004467951	0.000591525	-1.1095052087	0.1323928017	-0.25
1311	0.001311	0.003383	-0.004175	-0.003068	0.000031	0.000000	0.00000000	0.00000000	1636	0.004459656	0.000589113	-1.0857601173	0.1320983797	-0.24
1312	0.001312	0.003385	-0.004200	-0.003103	0.000031	0.000000	0.00000000	0.00000000	1637	0.004451515	0.000586730	-1.0628591429	0.1318045435	-0.24
1313	0.001313	0.003388	-0.004224	-0.003137	0.000031	0.000000	0.00000000	0.00000000	1638	0.004443531	0.000584375	-1.0398113608	0.1315113608	-0.24
1314	0.001314	0.003390	-0.004248	-0.003171	0.000032	0.000000	0.00000000	0.00000000	1639	0.004435705	0.000582048	-1.0169320600	0.1312188303	-0.22
1315	0.001315	0.003392	-0.004272	-0.003204	0.000032	0.000000	0.00000000	0.00000000	1640	0.004428039	0.000579750	-0.9932341177	0.1309289505	-0.22
1316	0.001316	0.003395	-0.004297	-0.003237	0.000033	0.000000	0.00000000	0.00000000	1641	0.004420535	0.000577480	-0.9697281944	0.1306387200	-0.21
1317	0.001317	0.003397	-0.004321	-0.003271	0.000033	0.000000	0.00000000	0.00000000	1642	0.004413195	0.000575238	-0.9460783663	0.1303451373	-0.21
1318	0.001318	0.003399	-0.004345	-0.003305	0.000033	0.000000	0.00000000	0.00000000	1643	0.004406021	0.000573026	-0.9228727502	0.1300520209	-0.20
1319	0.001319	0.003402	-0.004369	-0.003339	0.000034	0.000000	0.00000000	0.00000000	1644	0.004398974	0.000570840	-0.8993569994	0.1297595905	-0.20
1320	0.001320	0.003404	-0.004393	-0.003373	0.000034	0.000000	0.00000000	0.00000000	1645	0.004392177	0.000568687	-0.8742947036	0.1294672615	-0.19
1321	0.001321	0.003406	-0.004417	-0.003403	0.000035	0.000000	0.00000000	0.00000000	1646	0.004385512	0.000566561	-0.8509894886	0.1291825556	-0.19
1322	0.001322	0.003408	-0.004441	-0.003435	0.000035	0.000000	0.00000000	0.00000000	1647	0.004379191	0.000564464	-0.8257725661	0.1289018904	-0.18
1323	0.001323	0.003411	-0.004465	-0.003467	0.000035	0.000000	0.00000000	0.00000000	1648	0.004372701	0.000562396	-0.8007281643	0.1286151643	-0.18
1324	0.001324	0.003413	-0.004489	-0.003500	0.000036	0.000000	0.00000000	0.00000000	1649	0.004366560	0.000560357	-0.7787458232	0.1283320761	-0.18
1325	0.001325	0.003415	-0.004513	-0.003531	0.000036	0.000000	0.00000000	0.00000000	1650	0.004360589	0.000558347	-0.7520496036	0.1280436242	-0.17
1326	0.001326	0.003418	-0.004537	-0.003562	0.000037	0.000000	0.00000000	0.00000000	1651	0.004354816	0.000556356	-0.7255288776	0.1277538072	-0.17
1327	0.001327	0.003420	-0.004561	-0.003594	0.000037	0.000000	0.00000000	0.00000000	1652	0.004349216	0.000554415	-0.7003707329	0.1274746238	-0.16
1328	0.001328	0.003422	-0.004584	-0.003626	0.000037	0.000000	0.00000000	0.00000000	1653	0.004343799	0.000552492	-0.6772665621	0.1271910726	-0.16
1329	0.001329	0.003424	-0.004608	-0.003657	0.000037	0.000000	0.00000000	0.00000000	1654	0.004338568	0.000550590	-0.6521171319	0.1269051520	-0.15
1330	0.001330	0.003427	-0.004632	-0.003687	0.000038	0.000000	0.00000000	0.00000000	1655	0.004333524	0.000548736	-0.6268615832	0.1266258608	-0.15
1331	0.001331	0.003429	-0.004656	-0.003718	0.000038	0.000000	0.00000000	0.00000000	1656	0.004328669	0.000546902	-0.6015025309	0.1263431975	-0.15
1332	0.001332	0.003431	-0.004679	-0.003748	0.000038	0.000000	0.00000000	0.00000000	1657	0.004324004	0.000545098	-0.5764031017	0.1260631607	-0.14
1333	0.001333	0.003433	-0.004703	-0.003778	0.000039	0.000000	0.00000000	0.00000000	1658	0.004319532	0.000543323	-0.5504868639	0.1257877491	-0.14
1334	0.001334	0.003436	-0.004726	-0.003808	0.000039	0.000000	0.00000000	0.00000000	1659	0.004315253	0.000541577	-0.5248339869	0.1255206511	-0.14
1335	0.001335	0.003438	-0.004750	-0.003838	0.000039	0.000000	0.00000000	0.00000000	1660	0.004311170	0.000539861	-0.4990901616	0.1252527996	-0.13
1336	0.001336	0.003441	-0.004773	-0.003867	0.000039	0.000000	0.00000000	0.00000000	1661	0.004307283	0.000538175	-0.4732572398	0.1249842510	-0.13
1337	0.001337	0.003443	-0.004797	-0.003896	0.000040	0.000000	0.00000000	0.00000000	1662	0.004303596	0.000536518	-0.4473380449	0.1247130849	-0.13
1338	0.001338	0.003445	-0.004820	-0.003925	0.000040	0.000000	0.00000000	0.00000000	1663	0.004300109	0.000534891	-0.4213353849	0.1244390192	-0.12
1339	0.001339	0.003447	-0.004843	-0.003954	0.000040	0.000000	0.00000000	0.00000000	1664	0.004296823	0.000533294	-0.3952520987	0.1241733263	-0.12
1340	0.001340	0.003449	-0.004867	-0.003983	0.000040	0.000000	0.00000000	0.00000000	1665	0.004293741	0.000531725	-0.3690592578	0.1239372548	-0.12
1341	0.001341	0.003452	-0.004891	-0.00401										

1400	0.001400	0.003585	-0.006197	-0.005215	0.000036	0.000000	0.00000000	0.00000000	1725	0.004530096	0.000490831	1.2431016360	0.108348602	-0.02
1401	0.001401	0.003587	-0.006218	-0.005227	0.000036	0.000000	0.00000000	0.00000000	1726	0.004541702	0.000490984	1.2691350241	0.1081079515	-0.02
1402	0.001402	0.003589	-0.006239	-0.005236	0.000036	0.000000	0.00000000	0.00000000	1727	0.004553304	0.000491133	1.2951694386	0.1078613361	-0.02
1403	0.001403	0.003591	-0.006260	-0.005250	0.000035	0.000000	0.00000000	0.00000000	1728	0.004565715	0.000491397	1.3209790917	0.1076271544	-0.02
1404	0.001404	0.003594	-0.006280	-0.005261	0.000035	0.000000	0.00000000	0.00000000	1729	0.004578123	0.000491636	1.3467858059	0.1073881374	-0.02
1405	0.001405	0.003596	-0.006299	-0.005271	0.000035	0.000000	0.00000000	0.00000000	1730	0.004590529	0.000491895	1.3725142040	0.1071452660	-0.02
1406	0.001406	0.003598	-0.006322	-0.005282	0.000034	0.000000	0.00000000	0.00000000	1731	0.004603742	0.000492190	1.3981588075	0.1069109259	-0.02
1407	0.001407	0.003600	-0.006342	-0.005292	0.000034	0.000000	0.00000000	0.00000000	1732	0.004616954	0.000492505	1.4237212298	0.1066751160	-0.02
1408	0.001408	0.003602	-0.006363	-0.005303	0.000033	0.000000	0.00000000	0.00000000	1733	0.004630345	0.000492831	1.4491982045	0.1064353531	-0.02
1409	0.001409	0.003605	-0.006383	-0.005311	0.000033	0.000000	0.00000000	0.00000000	1734	0.004644186	0.000493208	1.4745683813	0.1061906199	-0.02
1410	0.001410	0.003607	-0.006404	-0.005320	0.000033	0.000000	0.00000000	0.00000000	1735	0.004658206	0.000493597	1.4998893470	0.1059428554	-0.02
1411	0.001411	0.003609	-0.006424	-0.005328	0.000032	0.000000	0.00000000	0.00000000	1736	0.004672496	0.000494010	1.5250949254	0.1056721544	-0.02
1412	0.001412	0.003611	-0.006444	-0.005331	0.000032	0.000000	0.00000000	0.00000000	1737	0.004686756	0.000494447	1.5502161772	0.1054019774	-0.02
1413	0.001413	0.003614	-0.006465	-0.005345	0.000031	0.000000	0.00000000	0.00000000	1738	0.004701886	0.000494908	1.5752393609	0.1051324640	-0.02
1414	0.001414	0.003616	-0.006486	-0.005353	0.000031	0.000000	0.00000000	0.00000000	1739	0.004716987	0.000495393	1.6001660316	0.1048251923	-0.02
1415	0.001415	0.003618	-0.006505	-0.005360	0.000030	0.000000	0.00000000	0.00000000	1740	0.004732359	0.000495932	1.6244994318	0.1044789581	-0.02
1416	0.001416	0.003620	-0.006525	-0.005367	0.000030	0.000000	0.00000000	0.00000000	1741	0.004748002	0.000496434	1.6487227418	0.1041564902	-0.02
1417	0.001417	0.003623	-0.006545	-0.005374	0.000030	0.000000	0.00000000	0.00000000	1742	0.004763916	0.000496990	1.6743494787	0.1038232914	-0.02
1418	0.001418	0.003625	-0.006565	-0.005381	0.000029	0.000000	0.00000000	0.00000000	1743	0.004780101	0.000497570	1.6998271675	0.1034918620	-0.02
1419	0.001419	0.003627	-0.006585	-0.005387	0.000029	0.000000	0.00000000	0.00000000	1744	0.004796558	0.000498172	1.7232919405	0.1031603227	-0.01
1420	0.001420	0.003629	-0.006605	-0.005393	0.000028	0.000000	0.00000000	0.00000000	1745	0.004813286	0.000498797	1.7476024475	0.1028262985	-0.01
1421	0.001421	0.003632	-0.006625	-0.005399	0.000028	0.000000	0.00000000	0.00000000	1746	0.004830286	0.000499446	1.7718053559	0.1024938781	-0.01
1422	0.001422	0.003634	-0.006645	-0.005404	0.000027	0.000000	0.00000000	0.00000000	1747	0.004847557	0.000500117	1.7959891009	0.1021637205	-0.01
1423	0.001423	0.003636	-0.006665	-0.005409	0.000027	0.000000	0.00000000	0.00000000	1748	0.004865101	0.000500810	1.8198790351	0.1018330345	-0.01
1424	0.001424	0.003638	-0.006684	-0.005414	0.000026	0.000000	0.00000000	0.00000000	1749	0.004882916	0.000501526	1.8437486290	0.1015021030	-0.01
1425	0.001425	0.003640	-0.006704	-0.005418	0.000026	0.000000	0.00000000	0.00000000	1750	0.004901003	0.000502264	1.8674989708	0.1011691628	-0.01
1426	0.001426	0.003643	-0.006724	-0.005422	0.000025	0.000000	0.00000000	0.00000000	1751	0.004919361	0.000503024	1.8911347663	0.1008339048	-0.01
1427	0.001427	0.003645	-0.006743	-0.005426	0.000025	0.000000	0.00000000	0.00000000	1752	0.004937992	0.000503806	1.9146523393	0.1004982338	-0.01
1428	0.001428	0.003647	-0.006762	-0.005429	0.000024	0.000000	0.00000000	0.00000000	1753	0.004956894	0.000504611	1.9382501313	0.1001629508	-0.01
1429	0.001429	0.003649	-0.006782	-0.005432	0.000024	0.000000	0.00000000	0.00000000	1754	0.004976068	0.000505434	1.9613260177	0.1015730686	-0.01
1430	0.001430	0.003651	-0.006802	-0.005435	0.000023	0.000000	0.00000000	0.00000000	1755	0.004995513	0.000506281	1.9844082279	0.1013471321	-0.01
1431	0.001431	0.003654	-0.006821	-0.005437	0.000022	0.000000	0.00000000	0.00000000	1756	0.005015230	0.000507149	2.0073095051	0.10112116981	-0.01
1432	0.001432	0.003656	-0.006841	-0.005439	0.000022	0.000000	0.00000000	0.00000000	1757	0.005035218	0.000508037	2.0301694637	0.1008967656	-0.01
1433	0.001433	0.003658	-0.006860	-0.005441	0.000021	0.000000	0.00000000	0.00000000	1758	0.005055477	0.000508947	2.0531890268	0.1006723335	-0.01
1434	0.001434	0.003660	-0.006879	-0.005443	0.000021	0.000000	0.00000000	0.00000000	1759	0.005076008	0.000509877	2.07633634631	0.1004484000	-0.01
1435	0.001435	0.003663	-0.006898	-0.005445	0.000020	0.000000	0.00000000	0.00000000	1760	0.005096809	0.000510827	2.0996325547	0.1002249657	-0.01
1436	0.001436	0.003665	-0.006918	-0.005445	0.000020	0.000000	0.00000000	0.00000000	1761	0.005117880	0.000511798	2.1230738249	0.1000023728	-0.01
1437	0.001437	0.003667	-0.006937	-0.005445	0.000019	0.000000	0.00000000	0.00000000	1762	0.005139223	0.000512790	2.14629918303	0.0997795859	-0.01
1438	0.001438	0.003669	-0.006956	-0.005445	0.000019	0.000000	0.00000000	0.00000000	1763	0.005160826	0.000513801	2.1695057038	0.0995576388	-0.01
1439	0.001439	0.003671	-0.006975	-0.005445	0.000018	0.000000	0.00000000	0.00000000	1764	0.005182717	0.000514831	2.1927025565	0.0993361853	-0.01
1440	0.001440	0.003674	-0.006994	-0.005445	0.000017	0.000000	0.00000000	0.00000000	1765	0.005204869	0.000515882	2.2089378882	0.0991152245	-0.01
1441	0.001441	0.003676	-0.007012	-0.005444	0.000017	0.000000	0.00000000	0.00000000	1766	0.005227290	0.000516952	2.2304464649	0.0988947551	-0.01
1442	0.001442	0.003678	-0.007031	-0.005443	0.000016	0.000000	0.00000000	0.00000000	1767	0.005249941	0.000518041	2.2521221294	0.0986747602	-0.01
1443	0.001443	0.003680	-0.007050	-0.005442	0.000016	0.000000	0.00000000	0.00000000	1768	0.005272939	0.000519149	2.2738383832	0.0984552865	-0.01
1444	0.001444	0.003682	-0.007069	-0.005440	0.000015	0.000000	0.00000000	0.00000000	1769	0.005296167	0.000520276	2.2948223663	0.0982362951	-0.01
1445	0.001445	0.003685	-0.007087	-0.005438	0.000014	0.000000	0.00000000	0.00000000	1770	0.005319662	0.000521421	2.3161626227	0.0980177039	-0.01
1446	0.001446	0.003687	-0.007106	-0.005436	0.000014	0.000000	0.00000000	0.00000000	1771	0.005343425	0.000522586	2.3375857199	0.0977974727	-0.01
1447	0.001447	0.003689	-0.007125	-0.005433	0.000013	0.000000	0.00000000	0.00000000	1772	0.005367455	0.000523768	2.3579083253	0.0975821994	-0.01
1448	0.001448	0.003691	-0.007143	-0.005431	0.000013	0.000000	0.00000000	0.00000000	1773	0.005391751	0.000524959	2.3781071061	0.0973735101	-0.01
1449	0.001449	0.003693	-0.007162	-0.005427	0.000012	0.000000	0.00000000	0.00000000	1774	0.005416314	0.000526187	2.3991648615	0.0971685366	-0.01
1450	0.001450	0.003696	-0.007180	-0.005423	0.000011	0.000000	0.00000000	0.00000000	1775	0.005441143	0.000527423	2.4195696752	0.0969634688	-0.01
1451	0.001451	0.003698	-0.007198	-0.005419	0.000011	0.000000	0.00000000	0.00000000	1776	0.005466237	0.000528677	2.4398263034	0.0967618547	-0.01
1452	0.001452	0.003700	-0.007217	-0.005415	0.000010	0.000000	0.00000000	0.00000000	1777	0.005491596	0.000529948	2.4599292438	0.0965629488	-0.01
1453	0.001453	0.003702	-0.007235	-0.005410	0.000009	0.000000	0.00000000	0.00000000	1778	0.005517219	0.000531237	2.4798751594	0.0963678643	-0.01
1454	0.001454	0.003704	-0.007253	-0.005406	0.000009	0.000000	0.00000000	0.00000000	1779	0.005543106	0.000532542	2.4996704868	0.0961768558	-0.01
1455	0.001455	0.003707	-0.007271	-0.005402	0.000008	0.000000	0.00000000	0.00000000	1780	0.005569256	0.000533864	2.5193101533	0.0959893844	-0.01
1456	0.001456	0.003709	-0.007289	-0.005395	0.000008	0.000000	0.00000000	0.00000000	1781	0.005595666	0.000535203	2.5387945957	0.0958045931	-0.01
1457	0.001457	0.003711	-0.007307	-0.005389	0.000007	0.000000	0.00000000	0.00000000	1782	0.005622343	0.000536558	2.5581219052	0.0956233047	-0.01
1458	0.001458	0.003713	-0.007325	-0.005384	0.000007	0.000000	0.00000000	0.00000000	1783	0.005649279	0.000537932	2.5772907396	0.0954452625	-0.01
1459	0.001459	0.003715	-0.007343	-0.005377	0.000006	0.000000	0.00000000	0.00000000	1784	0.005676475	0.000539317	2.5963003961	0.0952695185	-0.01
1460	0.001460	0.003718	-0.007361	-0.005										

1519	0.001519	0.003846	-0.008314	-0.004438	-0.000030	0.000000	0.00000000	0.00000000	1844	0.007750972	0.000644310	3.4181028578	0.0831263517	0.00
1520	0.001520	0.003848	-0.008328	-0.004414	-0.000030	0.000000	0.00000000	0.00000000	1845	0.007762186	0.000646295	3.4261942559	0.0829414476	0.00
1521	0.001521	0.003850	-0.008342	-0.004390	-0.000031	0.000000	0.00000000	0.00000000	1846	0.007773358	0.000648281	3.4342756548	0.0827565456	0.00
1522	0.001522	0.003852	-0.008356	-0.004365	-0.000031	0.000000	0.00000000	0.00000000	1847	0.007785178	0.000650276	3.4418124801	0.0825728724	0.00
1523	0.001523	0.003854	-0.008371	-0.004340	-0.000032	0.000000	0.00000000	0.00000000	1848	0.007796162	0.000652271	3.4493393623	0.0823891984	0.00
1524	0.001524	0.003856	-0.008385	-0.004314	-0.000032	0.000000	0.00000000	0.00000000	1849	0.007807390	0.000654270	3.4568781514	0.0822063560	0.00
1525	0.001525	0.003859	-0.008399	-0.004289	-0.000032	0.000000	0.00000000	0.00000000	1850	0.008001050	0.000656271	3.4638289098	0.0820230762	0.00
1526	0.001526	0.003861	-0.008413	-0.004263	-0.000033	0.000000	0.00000000	0.00000000	1851	0.008043369	0.000658274	3.4707917134	0.0818406282	0.00
1527	0.001527	0.003862	-0.008427	-0.004237	-0.000033	0.000000	0.00000000	0.00000000	1852	0.008042714	0.000660267	3.4775966513	0.0816550540	0.00
1528	0.001528	0.003865	-0.008441	-0.004211	-0.000034	0.000000	0.00000000	0.00000000	1853	0.008128542	0.000662289	3.4841533264	0.0814709948	0.00
1529	0.001529	0.003867	-0.008454	-0.004184	-0.000034	0.000000	0.00000000	0.00000000	1854	0.008171392	0.000664299	3.4905535344	0.0812857095	0.00
1530	0.001530	0.003869	-0.008468	-0.004157	-0.000034	0.000000	0.00000000	0.00000000	1855	0.008214414	0.000666311	3.4967653645	0.0811487775	0.00
1531	0.001531	0.003871	-0.008482	-0.004130	-0.000035	0.000000	0.00000000	0.00000000	1856	0.008257629	0.000668335	3.5027789093	0.0810034407	0.00
1532	0.001532	0.003874	-0.008495	-0.004103	-0.000035	0.000000	0.00000000	0.00000000	1857	0.008300973	0.000670340	3.5086274125	0.0808574491	0.00
1533	0.001533	0.003876	-0.008509	-0.004076	-0.000036	0.000000	0.00000000	0.00000000	1858	0.008344504	0.000672357	3.5142777736	0.0807047911	0.00
1534	0.001534	0.003878	-0.008522	-0.004049	-0.000036	0.000000	0.00000000	0.00000000	1859	0.008388202	0.000674374	3.5197412628	0.0805595626	0.00
1535	0.001535	0.003880	-0.008536	-0.004020	-0.000036	0.000000	0.00000000	0.00000000	1860	0.008432064	0.000676393	3.5250180736	0.0804167327	0.00
1536	0.001536	0.003882	-0.008549	-0.003992	-0.000037	0.000000	0.00000000	0.00000000	1861	0.008476089	0.000678412	3.5301084121	0.0802830307	0.00
1537	0.001537	0.003884	-0.008562	-0.003963	-0.000037	0.000000	0.00000000	0.00000000	1862	0.008520274	0.000680431	3.5350154968	0.0801589265	0.00
1538	0.001538	0.003886	-0.008576	-0.003935	-0.000037	0.000000	0.00000000	0.00000000	1863	0.008564618	0.000682451	3.5397305587	0.0800366285	0.00
1539	0.001539	0.003889	-0.008589	-0.003906	-0.000038	0.000000	0.00000000	0.00000000	1864	0.008609119	0.000684471	3.5442628408	0.0799153825	0.00
1540	0.001540	0.003891	-0.008602	-0.003877	-0.000038	0.000000	0.00000000	0.00000000	1865	0.008653775	0.000686491	3.5486095988	0.0797932537	0.00
1541	0.001541	0.003893	-0.008615	-0.003847	-0.000038	0.000000	0.00000000	0.00000000	1866	0.008698565	0.000688511	3.5527711000	0.0796715076	0.00
1542	0.001542	0.003895	-0.008628	-0.003818	-0.000038	0.000000	0.00000000	0.00000000	1867	0.008743546	0.000690530	3.5567476239	0.07954970126	0.00
1543	0.001543	0.003897	-0.008641	-0.003788	-0.000039	0.000000	0.00000000	0.00000000	1868	0.008788656	0.000692549	3.5605394620	0.07942803404	0.00
1544	0.001544	0.003899	-0.008653	-0.003759	-0.000039	0.000000	0.00000000	0.00000000	1869	0.008833914	0.000694567	3.5641469173	0.0793062589	0.00
1545	0.001545	0.003901	-0.008666	-0.003728	-0.000039	0.000000	0.00000000	0.00000000	1870	0.008879317	0.000696584	3.5675703047	0.07918450173	0.00
1546	0.001546	0.003904	-0.008679	-0.003697	-0.000039	0.000000	0.00000000	0.00000000	1871	0.008924864	0.000698600	3.5708989507	0.07906276648	0.00
1547	0.001547	0.003906	-0.008692	-0.003666	-0.000039	0.000000	0.00000000	0.00000000	1872	0.008970314	0.000700617	3.5742696193	0.07894115044	0.00
1548	0.001548	0.003908	-0.008704	-0.003635	-0.000040	0.000000	0.00000000	0.00000000	1873	0.009016382	0.000702627	3.5773933816	0.07881927821	0.00
1549	0.001549	0.003910	-0.008717	-0.003604	-0.000040	0.000000	0.00000000	0.00000000	1874	0.009062349	0.000704638	3.5794289783	0.07869754827	0.00
1550	0.001550	0.003912	-0.008729	-0.003573	-0.000040	0.000000	0.00000000	0.00000000	1875	0.009108451	0.000706648	3.5819304991	0.07857512676	0.00
1551	0.001551	0.003914	-0.008741	-0.003542	-0.000041	0.000000	0.00000000	0.00000000	1876	0.009154468	0.000708658	3.5842642035	0.07845349573	0.00
1552	0.001552	0.003916	-0.008754	-0.003510	-0.000041	0.000000	0.00000000	0.00000000	1877	0.009200507	0.000710660	3.5864089717	0.07833178073	0.00
1553	0.001553	0.003918	-0.008766	-0.003478	-0.000041	0.000000	0.00000000	0.00000000	1878	0.009247555	0.000712663	3.5885732520	0.07821049678	0.00
1554	0.001554	0.003921	-0.008778	-0.003446	-0.000041	0.000000	0.00000000	0.00000000	1879	0.009294778	0.000714663	3.5901554323	0.0780895460	0.00
1555	0.001555	0.003923	-0.008790	-0.003413	-0.000041	0.000000	0.00000000	0.00000000	1880	0.009340935	0.000716660	3.5917579678	0.07796725060	0.00
1556	0.001556	0.003925	-0.008802	-0.003381	-0.000042	0.000000	0.00000000	0.00000000	1881	0.009387811	0.000718654	3.5931805302	0.07784518484	0.00
1557	0.001557	0.003927	-0.008814	-0.003349	-0.000042	0.000000	0.00000000	0.00000000	1882	0.009434810	0.000720646	3.59452381564	0.07772331564	0.00
1558	0.001558	0.003929	-0.008826	-0.003315	-0.000042	0.000000	0.00000000	0.00000000	1883	0.009481928	0.000722634	3.5954869676	0.07760116653	0.00
1559	0.001559	0.003931	-0.008838	-0.003282	-0.000042	0.000000	0.00000000	0.00000000	1884	0.009529164	0.000724618	3.5963736880	0.07747821420	0.00
1560	0.001560	0.003933	-0.008850	-0.003249	-0.000042	0.000000	0.00000000	0.00000000	1885	0.009576516	0.000726599	3.5970816588	0.0773552958	0.00
1561	0.001561	0.003935	-0.008862	-0.003216	-0.000042	0.000000	0.00000000	0.00000000	1886	0.009623982	0.000728576	3.5977942976	0.07723242776	0.00
1562	0.001562	0.003938	-0.008873	-0.003182	-0.000042	0.000000	0.00000000	0.00000000	1887	0.009671559	0.000730549	3.5979535413	0.07710953013	0.00
1563	0.001563	0.003940	-0.008885	-0.003148	-0.000042	0.000000	0.00000000	0.00000000	1888	0.009719247	0.000732518	3.5981418828	0.07698678114	0.00
1564	0.001564	0.003942	-0.008896	-0.003114	-0.000043	0.000000	0.00000000	0.00000000	1889	0.009767041	0.000734483	3.5983294038	0.07686492918	0.00
1565	0.001565	0.003944	-0.008908	-0.003079	-0.000043	0.000000	0.00000000	0.00000000	1890	0.009814941	0.000736443	3.5985979518	0.07674308918	0.00
1566	0.001566	0.003946	-0.008919	-0.003045	-0.000043	0.000000	0.00000000	0.00000000	1891	0.009862944	0.000738399	3.5978181633	0.07662139006	0.00
1567	0.001567	0.003948	-0.008931	-0.003011	-0.000043	0.000000	0.00000000	0.00000000	1892	0.009910948	0.000740354	3.5979949045	0.07650046056	0.00
1568	0.001568	0.003950	-0.008942	-0.002976	-0.000043	0.000000	0.00000000	0.00000000	1893	0.009959252	0.000742306	3.5983961708	0.07637943301	0.00
1569	0.001569	0.003952	-0.008953	-0.002941	-0.000043	0.000000	0.00000000	0.00000000	1894	0.010007552	0.000744237	3.5995248670	0.07625871111	0.00
1570	0.001570	0.003954	-0.008964	-0.002906	-0.000043	0.000000	0.00000000	0.00000000	1895	0.010055947	0.000746172	3.5994811070	0.07613720899	0.00
1571	0.001571	0.003957	-0.008975	-0.002870	-0.000043	0.000000	0.00000000	0.00000000	1896	0.010104345	0.000748102	3.5992651135	0.07601573027	0.00
1572	0.001572	0.003959	-0.008986	-0.002835	-0.000043	0.000000	0.00000000	0.00000000	1897	0.010153013	0.000750027	3.5991877584	0.07589435006	0.00
1573	0.001573	0.003961	-0.008997	-0.002799	-0.000043	0.000000	0.00000000	0.00000000	1898	0.010201680	0.000751946	3.5993191622	0.07577300309	0.00
1574	0.001574	0.003963	-0.009008	-0.002763	-0.000043	0.000000	0.00000000	0.00000000	1899	0.010250342	0.000753869	3.5985941431	0.07565163586	0.00
1575	0.001575	0.003965	-0.009019	-0.002727	-0.000043	0.000000	0.00000000	0.00000000	1900	0.010299269	0.000755785	3.5986919726	0.07553038017	0.00
1576	0.001576	0.003967	-0.009030	-0.002691	-0.000043	0.000000	0.00000000	0.00000000	1901	0.010348188	0.000757666	3.5984264635	0.07540732614	0.00
1577	0.001577	0.003969	-0.009040	-0.002655	-0.000043	0.000000	0.00000000	0.00000000	1902	0.010397186	0.000759518	3.5982385210	0.07528433888	0.00
1578	0.001578	0.003971	-0.009051	-0.002619	-0.000043	0.000000	0.00000000	0.00000000	1903	0.010446262	0.000761348	3.5759847808	0.0751618985	0.00
1579	0.001579													

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1726 0.001726 0.004275 -0.009843 0.003208 0.000029 0.000000 0.000000

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1761	0.001761	0.004344	-0.009796	0.004257	0.000041	0.000000	0.00000000	0.00000000	2086	0.018363640	0.000890198	1.2193783432	0.0484951412	0.00
1762	0.001762	0.004346	-0.009794	0.004283	0.000041	0.000000	0.00000000	0.00000000	2087	0.018394257	0.000889447	1.20145577187	0.0483872699	0.00
1763	0.001763	0.004348	-0.009791	0.004309	0.000041	0.000000	0.00000000	0.00000000	2088	0.018424869	0.000888639	1.1835335514	0.0482796395	0.00
1764	0.001764	0.004350	-0.009788	0.004334	0.000041	0.000000	0.00000000	0.00000000	2089	0.018455484	0.000887836	1.1656279413	0.0481722485	0.00
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1766	0.001766	0.004354	-0.009782	0.004384	0.000042	0.000000	0.00000000	0.00000000	2091	0.018516720	0.000886231	1.1298235703	0.0479561777	0.00
1767	0.001767	0.004356	-0.009779	0.004408	0.000042	0.000000	0.00000000	0.00000000	2092	0.018547340	0.000885429	1.1119323103	0.04784515017	0.00
1768	0.001768	0.004358	-0.009776	0.004433	0.000042	0.000000	0.00000000	0.00000000	2093	0.018577960	0.000884627	1.0940494624	0.04773450621	0.00
1769	0.001769	0.004360	-0.009773	0.004457	0.000042	0.000000	0.00000000	0.00000000	2094	0.018608580	0.000883824	1.0761758698	0.0476238552	0.00
1770	0.001770	0.004362	-0.009770	0.004480	0.000042	0.000000	0.00000000	0.00000000	2095	0.018639200	0.000883021	1.0583123663	0.0475132825	0.00
1771	0.001771	0.004363	-0.009767	0.004504	0.000042	0.000000	0.00000000	0.00000000	2096	0.018669820	0.000882218	1.0404597961	0.04740271616	0.00
1772	0.001772	0.004365	-0.009764	0.004527	0.000042	0.000000	0.00000000	0.00000000	2097	0.018690440	0.000881415	1.0226118941	0.0472921668	0.00
1773	0.001773	0.004367	-0.009760	0.004550	0.000042	0.000000	0.00000000	0.00000000	2098	0.018721060	0.000880612	1.0047907608	0.04718264047	0.00
1774	0.001774	0.004369	-0.009756	0.004573	0.000043	0.000000	0.00000000	0.00000000	2099	0.018751680	0.000879809	0.9869795912	0.0471133778	0.00
1775	0.001775	0.004371	-0.009753	0.004595	0.000043	0.000000	0.00000000	0.00000000	2100	0.018782300	0.000879006	0.9691753766	0.0470035844	0.00
1776	0.001776	0.004373	-0.009749	0.004618	0.000043	0.000000	0.00000000	0.00000000	2101	0.018812920	0.000878203	0.9513696500	0.0468932042	0.00
1777	0.001777	0.004375	-0.009746	0.004640	0.000043	0.000000	0.00000000	0.00000000	2102	0.018843540	0.000877400	0.9335622008	0.0467836666	0.00
1778	0.001778	0.004377	-0.009742	0.004661	0.000043	0.000000	0.00000000	0.00000000	2103	0.018874160	0.000876597	0.9157662749	0.0466741291	0.00
1779	0.001779	0.004379	-0.009738	0.004683	0.000043	0.000000	0.00000000	0.00000000	2104	0.018904780	0.000875794	0.8979611743	0.0465645939	0.00
1780	0.001780	0.004381	-0.009734	0.004704	0.000043	0.000000	0.00000000	0.00000000	2105	0.018935400	0.000874991	0.880145329	0.0464551039	0.00
1781	0.001781	0.004383	-0.009730	0.004725	0.000043	0.000000	0.00000000	0.00000000	2106	0.018966020	0.000874188	0.8623294205	0.04634562014	0.00
1782	0.001782	0.004385	-0.009726	0.004745	0.000043	0.000000	0.00000000	0.00000000	2107	0.018996640	0.000873385	0.8445238198	0.0462361369	0.00
1783	0.001783	0.004387	-0.009722	0.004765	0.000043	0.000000	0.00000000	0.00000000	2108	0.019027260	0.000872582	0.826708448	0.0461266531	0.00
1784	0.001784	0.004389	-0.009718	0.004785	0.000043	0.000000	0.00000000	0.00000000	2109	0.019057880	0.000871779	0.808893077	0.0460171719	0.00
1785	0.001785	0.004391	-0.009714	0.004805	0.000043	0.000000	0.00000000	0.00000000	2110	0.019088500	0.000870976	0.7910777337	0.0459076884	0.00
1786	0.001786	0.004393	-0.009710	0.004825	0.000043	0.000000	0.00000000	0.00000000	2111	0.019119120	0.000870173	0.7732623900	0.0457982049	0.00
1787	0.001787	0.004395	-0.009704	0.004844	0.000043	0.000000	0.00000000	0.00000000	2112	0.019149740	0.000869370	0.7554470463	0.0456887214	0.00
1788	0.001788	0.004397	-0.009700	0.004863	0.000043	0.000000	0.00000000	0.00000000	2113	0.019180360	0.000868567	0.7376317026	0.0455792379	0.00
1789	0.001789	0.004399	-0.009696	0.004881	0.000043	0.000000	0.00000000	0.00000000	2114	0.019210980	0.000867764	0.7198163589	0.0454697544	0.00
1790	0.001790	0.004400	-0.009691	0.004900	0.000043	0.000000	0.00000000	0.00000000	2115	0.019241600	0.000866961	0.7020010152	0.0453602709	0.00
1791	0.001791	0.004402	-0.009686	0.004918	0.000042	0.000000	0.00000000	0.00000000	2116	0.019272220	0.000866158	0.6841856717	0.0452507874	0.00
1792	0.001792	0.004404	-0.009681	0.004937	0.000042	0.000000	0.00000000	0.00000000	2117	0.019302840	0.000865355	0.6663703281	0.0451413039	0.00
1793	0.001793	0.004406	-0.009676	0.004953	0.000042	0.000000	0.00000000	0.00000000	2118	0.019333460	0.000864552	0.6485549844	0.0450318204	0.00
1794	0.001794	0.004408	-0.009671	0.004970	0.000042	0.000000	0.00000000	0.00000000	2119	0.019364080	0.000863749	0.6307396399	0.0449223369	0.00
1795	0.001795	0.004410	-0.009666	0.004986	0.000042	0.000000	0.00000000	0.00000000	2120	0.019394700	0.000862946	0.6129242954	0.0448128534	0.00
1796	0.001796	0.004412	-0.009661	0.005003	0.000042	0.000000	0.00000000	0.00000000	2121	0.019425320	0.000862143	0.5951089509	0.0447033699	0.00
1797	0.001797	0.004414	-0.009656	0.005020	0.000042	0.000000	0.00000000	0.00000000	2122	0.019455940	0.000861340	0.5772936064	0.0445938864	0.00
1798	0.001798	0.004416	-0.009651	0.005036	0.000042	0.000000	0.00000000	0.00000000	2123	0.019486560	0.000860537	0.5594782619	0.0444844029	0.00
1799	0.001799	0.004418	-0.009646	0.005052	0.000041	0.000000	0.00000000	0.00000000	2124	0.019517180	0.000859734	0.5416629174	0.0443749194	0.00
1800	0.001800	0.004420	-0.009640	0.005067	0.000041	0.000000	0.00000000	0.00000000	2125	0.019547800	0.000858931	0.5238475729	0.0442654359	0.00
1801	0.001801	0.004422	-0.009635	0.005082	0.000041	0.000000	0.00000000	0.00000000	2126	0.019578420	0.000858128	0.5060322284	0.0441559524	0.00
1802	0.001802	0.004424	-0.009629	0.005097	0.000041	0.000000	0.00000000	0.00000000	2127	0.019609040	0.000857325	0.4882168839	0.0440464689	0.00
1803	0.001803	0.004426	-0.009624	0.005111	0.000041	0.000000	0.00000000	0.00000000	2128	0.019639660	0.000856522	0.4704015394	0.0439369854	0.00
1804	0.001804	0.004428	-0.009618	0.005125	0.000041	0.000000	0.00000000	0.00000000	2129	0.019670280	0.000855719	0.4525861899	0.0438275019	0.00
1805	0.001805	0.004429	-0.009612	0.005139	0.000041	0.000000	0.00000000	0.00000000	2130	0.019700900	0.000854916	0.4347708404	0.0437180184	0.00
1806	0.001806	0.004431	-0.009607	0.005153	0.000040	0.000000	0.00000000	0.00000000	2131	0.019731520	0.000854113	0.4169554909	0.0436085349	0.00
1807	0.001807	0.004433	-0.009601	0.005166	0.000040	0.000000	0.00000000	0.00000000	2132	0.019762140	0.000853310	0.3991401414	0.0434990514	0.00
1808	0.001808	0.004435	-0.009595	0.005179	0.000040	0.000000	0.00000000	0.00000000	2133	0.019792760	0.000852507	0.3813247919	0.0433895679	0.00
1809	0.001809	0.004437	-0.009589	0.005192	0.000040	0.000000	0.00000000	0.00000000	2134	0.019823380	0.000851704	0.3635094424	0.0432800844	0.00
1810	0.001810	0.004439	-0.009583	0.005204	0.000039	0.000000	0.00000000	0.00000000	2135	0.019854000	0.000850901	0.3456940929	0.0431706009	0.00
1811	0.001811	0.004441	-0.009576	0.005216	0.000039	0.000000	0.00000000	0.00000000	2136	0.019884620	0.000850098	0.3278787434	0.0430611174	0.00
1812	0.001812	0.004443	-0.009569	0.005228	0.000039	0.000000	0.00000000	0.00000000	2137	0.019915240	0.000849295	0.3100633939	0.0429516339	0.00
1813	0.001813	0.004445	-0.009564	0.005240	0.000038	0.000000	0.00000000	0.00000000	2138	0.019945860	0.000848492	0.2922480444	0.0428421504	0.00
1814	0.001814	0.004447	-0.009558	0.005251	0.000038	0.000000	0.00000000	0.00000000	2139	0.019976480	0.000847689	0.2744326949	0.0427326669	0.00
1815	0.001815	0.004449	-0.009551	0.005263	0.000038	0.000000	0.00000000	0.00000000	2140	0.020007100	0.000846886	0.2566173454	0.0426231834	0.00
1816	0.001816	0.004451	-0.009545	0.005272	0.000038	0.000000	0.00000000	0.00000000	2141	0.020037720	0.000846083	0.2388019959	0.0425136999	0.00
1817	0.001817	0.004452	-0.009538	0.005283</										

1876	0.001876	0.004564	-0.009025	0.005330	0.000007	0.000000	0.00000000	0.00000000	2201	0.018912795	0.000709864	-0.6279930341	0.0375388219	0.00
1877	0.001877	0.004566	-0.009015	0.005322	0.000007	0.000000	0.00000000	0.00000000	2202	0.018985877	0.000707751	-0.6407513305	0.0374553216	0.00
1878	0.001878	0.004568	-0.009004	0.005313	0.000006	0.000000	0.00000000	0.00000000	2203	0.018978581	0.000705508	-0.6537210069	0.0373720069	0.00
1879	0.001879	0.004570	-0.008993	0.005303	0.000005	0.000000	0.00000000	0.00000000	2204	0.018860908	0.000703302	-0.6660371217	0.0372888776	0.00
1880	0.001880	0.004571	-0.008982	0.005294	0.000005	0.000000	0.00000000	0.00000000	2205	0.018842858	0.000701066	-0.6785638848	0.0372059332	0.00
1881	0.001881	0.004573	-0.008971	0.005285	0.000004	0.000000	0.00000000	0.00000000	2206	0.018824822	0.000698824	-0.6911217469	0.0371231732	0.00
1882	0.001882	0.004575	-0.008960	0.005274	0.000003	0.000000	0.00000000	0.00000000	2207	0.018806530	0.000696572	-0.7038353547	0.0370405974	0.00
1883	0.001883	0.004577	-0.008949	0.005263	0.000003	0.000000	0.00000000	0.00000000	2208	0.018788453	0.000694314	-0.7156753597	0.0369582053	0.00
1884	0.001884	0.004579	-0.008938	0.005252	0.000002	0.000000	0.00000000	0.00000000	2209	0.018770391	0.000692061	-0.7278841581	0.0368759584	0.00
1885	0.001885	0.004581	-0.008926	0.005241	0.000001	0.000000	0.00000000	0.00000000	2210	0.018752328	0.000689776	-0.7402021936	0.0367937074	0.00
1886	0.001886	0.004583	-0.008915	0.005230	0.000001	0.000000	0.00000000	0.00000000	2211	0.018734267	0.000687496	-0.7526703507	0.0367112688	0.00
1887	0.001887	0.004585	-0.008904	0.005218	0.000000	0.000000	0.00000000	0.00000000	2212	0.018716204	0.000685210	-0.7645056118	0.0366293463	0.00
1888	0.001888	0.004586	-0.008892	0.005207	0.000000	0.000000	0.00000000	0.00000000	2213	0.018698144	0.000682916	-0.7764445037	0.0365469854	0.00
1889	0.001889	0.004588	-0.008881	0.005194	-0.000001	0.000000	0.00000000	0.00000000	2214	0.018680084	0.000680616	-0.7877575852	0.0364647668	0.00
1890	0.001890	0.004590	-0.008869	0.005181	-0.000002	0.000000	0.00000000	0.00000000	2215	0.018662024	0.000678310	-0.7994903120	0.0363825590	0.00
1891	0.001891	0.004592	-0.008857	0.005168	-0.000003	0.000000	0.00000000	0.00000000	2216	0.018643964	0.000676006	-0.8111415569	0.0363003517	0.00
1892	0.001892	0.004594	-0.008846	0.005155	-0.000003	0.000000	0.00000000	0.00000000	2217	0.018625903	0.000673707	-0.8227112898	0.0362181474	0.00
1893	0.001893	0.004596	-0.008834	0.005141	-0.000004	0.000000	0.00000000	0.00000000	2218	0.018607843	0.000671351	-0.8341992127	0.0361359427	0.00
1894	0.001894	0.004597	-0.008822	0.005127	-0.000004	0.000000	0.00000000	0.00000000	2219	0.018589782	0.000668918	-0.8456950320	0.0360537382	0.00
1895	0.001895	0.004599	-0.008810	0.005113	-0.000005	0.000000	0.00000000	0.00000000	2220	0.018571723	0.000666580	-0.8569294611	0.0359715337	0.00
1896	0.001896	0.004601	-0.008798	0.005099	-0.000006	0.000000	0.00000000	0.00000000	2221	0.018553664	0.000664235	-0.8681692158	0.0358893295	0.00
1897	0.001897	0.004603	-0.008786	0.005084	-0.000006	0.000000	0.00000000	0.00000000	2222	0.018535604	0.000661895	-0.8793217017	0.0358071253	0.00
1898	0.001898	0.004605	-0.008774	0.005069	-0.000007	0.000000	0.00000000	0.00000000	2223	0.018517544	0.000659548	-0.8904015969	0.0357249289	0.00
1899	0.001899	0.004607	-0.008761	0.005053	-0.000008	0.000000	0.00000000	0.00000000	2224	0.018499484	0.000657200	-0.9013982629	0.0356427346	0.00
1900	0.001900	0.004609	-0.008749	0.005038	-0.000008	0.000000	0.00000000	0.00000000	2225	0.018481424	0.000654858	-0.9123000139	0.0355605402	0.00
1901	0.001901	0.004610	-0.008737	0.005022	-0.000009	0.000000	0.00000000	0.00000000	2226	0.018463364	0.000652525	-0.9231213325	0.0354783459	0.00
1902	0.001902	0.004612	-0.008724	0.005006	-0.000009	0.000000	0.00000000	0.00000000	2227	0.018345304	0.000650146	-0.9338623862	0.0353961515	0.00
1903	0.001903	0.004614	-0.008712	0.004989	-0.000010	0.000000	0.00000000	0.00000000	2228	0.018327244	0.000647762	-0.9445169276	0.0353139571	0.00
1904	0.001904	0.004616	-0.008700	0.004973	-0.000010	0.000000	0.00000000	0.00000000	2229	0.018309184	0.000645377	-0.9551669145	0.0352317627	0.00
1905	0.001905	0.004618	-0.008687	0.004955	-0.000011	0.000000	0.00000000	0.00000000	2230	0.018291124	0.000642992	-0.9657571509	0.0351495683	0.00
1906	0.001906	0.004620	-0.008674	0.004938	-0.000012	0.000000	0.00000000	0.00000000	2231	0.018273064	0.000640607	-0.9759710810	0.0350673730	0.00
1907	0.001907	0.004621	-0.008661	0.004920	-0.000013	0.000000	0.00000000	0.00000000	2232	0.018255004	0.000638172	-0.9862852016	0.0349851786	0.00
1908	0.001908	0.004623	-0.008649	0.004903	-0.000013	0.000000	0.00000000	0.00000000	2233	0.018236944	0.000635737	-0.9965993448	0.0349029843	0.00
1909	0.001909	0.004625	-0.008636	0.004884	-0.000014	0.000000	0.00000000	0.00000000	2234	0.018218884	0.000633303	-1.0069134878	0.0348207900	0.00
1910	0.001910	0.004627	-0.008623	0.004865	-0.000014	0.000000	0.00000000	0.00000000	2235	0.018200824	0.000630858	-1.0171712651	0.0347385957	0.00
1911	0.001911	0.004629	-0.008610	0.004846	-0.000015	0.000000	0.00000000	0.00000000	2236	0.018182764	0.000628413	-1.0274290424	0.0346564014	0.00
1912	0.001912	0.004631	-0.008597	0.004827	-0.000016	0.000000	0.00000000	0.00000000	2237	0.018164704	0.000625967	-1.0376868197	0.0345742071	0.00
1913	0.001913	0.004632	-0.008584	0.004808	-0.000016	0.000000	0.00000000	0.00000000	2238	0.018146644	0.000623523	-1.0479445970	0.0344919128	0.00
1914	0.001914	0.004634	-0.008571	0.004789	-0.000017	0.000000	0.00000000	0.00000000	2239	0.018128584	0.000621078	-1.0582023743	0.0344096185	0.00
1915	0.001915	0.004636	-0.008557	0.004768	-0.000017	0.000000	0.00000000	0.00000000	2240	0.018110524	0.000618634	-1.0684601516	0.0343273242	0.00
1916	0.001916	0.004638	-0.008544	0.004748	-0.000018	0.000000	0.00000000	0.00000000	2241	0.018092464	0.000616189	-1.0787179289	0.0342450300	0.00
1917	0.001917	0.004640	-0.008531	0.004727	-0.000019	0.000000	0.00000000	0.00000000	2242	0.018074404	0.000613745	-1.0889757062	0.0341627357	0.00
1918	0.001918	0.004642	-0.008517	0.004706	-0.000020	0.000000	0.00000000	0.00000000	2243	0.018056344	0.000611301	-1.0992334835	0.0340804414	0.00
1919	0.001919	0.004643	-0.008504	0.004685	-0.000020	0.000000	0.00000000	0.00000000	2244	0.018038284	0.000608856	-1.1094912608	0.0340000471	0.00
1920	0.001920	0.004645	-0.008490	0.004664	-0.000020	0.000000	0.00000000	0.00000000	2245	0.018020224	0.000606412	-1.1197490381	0.0339196528	0.00
1921	0.001921	0.004647	-0.008477	0.004643	-0.000021	0.000000	0.00000000	0.00000000	2246	0.018002164	0.000603967	-1.1299968154	0.0338392585	0.00
1922	0.001922	0.004649	-0.008463	0.004621	-0.000021	0.000000	0.00000000	0.00000000	2247	0.017984104	0.000601523	-1.1402445927	0.0337588642	0.00
1923	0.001923	0.004651	-0.008449	0.004598	-0.000022	0.000000	0.00000000	0.00000000	2248	0.017966044	0.000599079	-1.1504923700	0.0336784699	0.00
1924	0.001924	0.004653	-0.008435	0.004576	-0.000023	0.000000	0.00000000	0.00000000	2249	0.017947984	0.000596634	-1.1607401473	0.0335980756	0.00
1925	0.001925	0.004654	-0.008421	0.004553	-0.000023	0.000000	0.00000000	0.00000000	2250	0.017929924	0.000594190	-1.1709879246	0.0335176813	0.00
1926	0.001926	0.004656	-0.008407	0.004530	-0.000024	0.000000	0.00000000	0.00000000	2251	0.017911864	0.000591745	-1.1812357019	0.0334372870	0.00
1927	0.001927	0.004658	-0.008393	0.004507	-0.000024	0.000000	0.00000000	0.00000000	2252	0.017893804	0.000589301	-1.1914834792	0.0333568927	0.00
1928	0.001928	0.004660	-0.008379	0.004484	-0.000025	0.000000	0.00000000	0.00000000	2253	0.017875744	0.000586856	-1.2017312565	0.0332764984	0.00
1929	0.001929	0.004662	-0.008365	0.004460	-0.000025	0.000000	0.00000000	0.00000000	2254	0.017857684	0.000584412	-1.2119790338	0.0331961041	0.00
1930	0.001930	0.004663	-0.008351	0.004436	-0.000026	0.000000	0.00000000	0.00000000	2255	0.017839624	0.000581967	-1.2222268111	0.0331157098	0.00
1931	0.001931	0.004665	-0.008337	0.004411	-0.000027	0.000000	0.00000000	0.00000000	2256	0.017821564	0.000579523	-1.2324745884	0.0330353155	0.00
1932	0.001932	0.004667	-0.008323	0.004387	-0.000027	0.000000	0.00000000	0.00000000	2257	0.017803504	0.000577078	-1.2427223657	0.0329549212	0.00
1933	0.001933	0.004669	-0.008308	0.004362	-0.000027	0.000000	0.00000000	0.00000000	2258	0.017785444	0.000574634	-1.2529701430	0.0328745269	0.00
1934	0.001934	0.004671	-0.008294	0.004338	-0.000028	0.000000	0.00000000	0.00000000	2259	0.017767384	0.000572189	-1.2632179203	0.0327941326	0.00
1935	0.001935	0.004673	-0.008279	0.004312	-0.000028	0.000000	0.00000000	0.00000000	2260	0.017749324	0.000570193	-1.2734656976	0.0327137383	0.00
1936	0.001936	0.004674	-0.008265	0.00428										

1995	0.001995	0.004780	-0.007301	0.002393	-0.000043	0.000000	0.00000000	0.00000000	2320	0.014516395	0.000418074	-1.5462007321	0.0288001409	0.00
1996	0.001996	0.004782	-0.007283	0.002396	-0.000043	0.000000	0.00000000	0.00000000	2321	0.0144462605	0.000415999	-1.5486144124	0.0287950786	0.00
1997	0.001997	0.004783	-0.007264	0.002316	-0.000043	0.000000	0.00000000	0.00000000	2322	0.014408613	0.000413126	-1.5509426930	0.0286721588	0.00
1998	0.001998	0.004785	-0.007246	0.002280	-0.000043	0.000000	0.00000000	0.00000000	2323	0.014354421	0.000410657	-1.5531857891	0.0286083812	0.00
1999	0.001999	0.004787	-0.007228	0.002243	-0.000043	0.000000	0.00000000	0.00000000	2324	0.014300032	0.000408191	-1.5553436205	0.0285447454	0.00
2000	0.002000	0.004789	-0.007210	0.002205	-0.000043	0.000000	0.00000000	0.00000000	2325	0.014245446	0.000405728	-1.5574717311	0.0284812512	0.00