#	t0	x0	v0	w0	t1	x1	v1	w1	p	r min	r max
1	0.85201211	1.421469821	2.699873969	-1.61604321	1.241059515	-0.22802519	-4.23983039	-4.07646981	1	3.49E-11	3.71E-05
2	0.241059515	0.228025189	4.239830391	-4.07646981	0.85201211	-1.42146982	-2.69987397	-1.61604321	1	2.83E-11	3.71E-05
3	0.85201211	-1.42146982	-2.69987397	-1.61604321	1.241059515	0.228025189	4.239830391	-4.07646981	1	3.62E-11	3.71E-05
4	0.125747179	-0.68394141	-1.22162581	-3.95657185	0.273003294	0.357792526	7.074300013	-2.03182505	1	2.19E-11	2.75E-05
5	0.241059515	-0.22802519	-4.23983039	-4.07646981	0.85201211	1.421469821	2.699873969	-1.61604321	1	5.84E-11	3.71E-05
6	0.273003294	0.357792526	7.074300013	-2.03182505	1.125747179	-0.68394141	-1.22162581	-3.95657185	1	5.70E-11	2.75E-05
7	0.125747179	0.683941414	1.221625811	-3.95657185	0.273003294	-0.35779253	-7.07430001	-2.03182505	1	5.04E-11	2.75E-05
8	0.273003294	-0.35779253	-7.07430001	-2.03182505	1.125747179	0.683941414	1.221625811	-3.95657185	1	1.05E-10	2.75E-05
9	0.226246177	-1.60261065	-1.6507574	-0.28612297	1.226246177	0.04814675	1.650757402	-9.52387703	2	8.07E-11	3.74E-05
10	0.944308856	-1.51671595	-0.9434605	-7.16284419	1.231765039	0.099001487	5.620743385	-8.78059327	2	7.70E-11	1.06E-05
11	0.226246177	1.602610652	1.650757402	-0.28612297	1.226246177	-0.04814675	-1.6507574	-9.52387703	2	3.80E-11	3.74E-05
12	0.226246177	0.04814675	1.650757402	-9.52387703	1.226246177	-1.60261065	-1.6507574	-0.28612297	2	3.42E-09	3.74E-05
13	0.226246177	-0.04814675	-1.6507574	-9.52387703	1.226246177	1.602610652	1.650757402	-0.28612297	2	1.21E-10	3.74E-05
14	0.776374855	-0.01872252	-0.9825664	-9.1623502	2.328418941	0.421423907	0.283591448	-5.60247923	2	8.47E-11	2.39E-05
15	0.335214318	-8.39E-26	-5.61E-26	-5.850449	0.780191991	4.19E-27	2.15E-25	-8.39230772	2	1.09E-10	3.25E-05
16	0.944308856	1.516715952	0.943460496	-7.16284419	1.231765039	-0.09900149	-5.62074338	-8.78059327	2	1.21E-10	1.06E-05
17	0.231765039	-0.09900149	-5.62074338	-8.78059327	1.944308856	1.516715952	0.943460496	-7.16284419	2	3.88E-11	1.06E-05
18	0.767594597	-0.0071783	-0.09073408	-9.63016686	1.143839225	0.140151651	0.391580204	5.342936039	2	7.01E-11	1.53E-05
19	0.143332204	1.78E-14	4.97E-14	5.234012736	1.766674488	-9.13E-16	-1.15E-14	-9.60559083	2	5.97E-09	4.85E-05
20	0.143839225	0.140151651	0.391580204	5.342936039	1.767594597	-0.0071783	-0.09073408	-9.63016686	2	4.90E-11	1.53E-05
21	0.767594597	0.007178297	0.090734079	-9.63016686	1.143839225	-0.14015165	-0.3915802	5.342936039	2	9.52E-11	1.53E-05
22	0.724307554	1.880751748	3.901460376	4.311765767	2.22257384	-0.07674246	-1.30650621	-9.61703546	2	6.12E-10	6.30E-05
23	0.328418941	-0.42142391	-0.28359145	-5.60247923	0.776374855	0.018722522	0.982566399	-9.1623502	2	6.69E-11	2.39E-05
24	0.231765039	0.099001487	5.620743385	-8.78059327	1.944308856	-1.51671595	-0.9434605	-7.16284419	2	4.68E-11	1.06E-05
25	0.780191991	-5.43E-21	-2.80E-19	-8.39230772	2.335214318	1.09E-19	7.29E-20	-5.850449	2	1.07E-10	3.25E-05
26	0.724307554	-1.88075175	-3.90146038	4.311765767	2.22257384	0.076742456	1.306506209	-9.61703546	2	3.67E-10	6.30E-05
27	0.766674488	5.42E-18	6.82E-17	-9.60559083	1.143332204	-1.05E-16	-2.95E-16	5.234012736	2	4.05E-10	4.85E-05
28	0.143839225	-0.14015165	-0.3915802	5.342936039	1.767594597	0.007178297	0.090734079	-9.63016686	2	9.02E-11	1.53E-05
29	0.749352112	0.121720937	0.228736115	-9.61078132	0.822870401	-0.31893501	-5.99382753	3.868436427	2	8.05E-11	7.53E-06
30	0.776374855	0.018722522	0.982566399	-9.1623502	2.328418941	-0.42142391	-0.28359145	-5.60247923	2	3.64E-10	2.39E-05
31	0.749352112	-0.12172094	-0.22873612	-9.61078132	0.822870401	0.318935006	5.993827534	3.868436427	2	2.40E-10	7.53E-06
32	0.328418941	0.421423907	0.283591448	-5.60247923	0.776374855	-0.01872252	-0.9825664	-9.1623502	2	2.66E-11	2.39E-05
33	0.238156205	-1.38E-18	-1.60E-18	-4.905	1.238156205	1.33E-19	3.33E-18	-4.905	2	1.68E-09	1.61E-04
34	0.22257384	0.076742456	1.306506209	-9.61703546	0.724307554	-1.88075175	-3.90146038	4.311765767	2	3.17E-10	6.30E-05
35	0.22257384	-0.07674246	-1.30650621	-9.61703546	0.724307554	1.880751748	3.901460376	4.311765767	2	1.73E-10	6.30E-05
36	0.238524203	0.15588305	8.69683887	-6.75536464	2.129663622	-0.79085989	-0.50062038	-8.91791316	2	3.74E-11	7.67E-06
37	0.238524203	-0.15588305	-8.69683887	-6.75536464	2.129663622	0.790859887	0.500620381	-8.91791316	2	5.39E-11	7.67E-06
38	0.129663622	0.790859887	0.500620381	-8.91791316	0.238524203	-0.15588305	-8.69683887	-6.75536464	2	4.24E-11	7.67E-06
39	0.129663622	-0.79085989	-0.50062038	-8.91791316	0.238524203	0.15588305	8.69683887	-6.75536464	2	3.66E-11	7.67E-06
40	0.785634097	-0.02692586	-1.34751691	-14.5351632	2.221042012	2.081388434	1.468791047	0.437626551	3	5.05E-11	1.64E-05
41	0.214200273	2.300989898	1.167261753	-5.04591299	1.214200273	-0.03353361	-2.33452351	-14.433174	3	2.55E-11	1.13E-05
42	0.214124732	-0.03562476	-1.96909715	-14.5160938	1.79950657	2.749895837	1.757002966	-1.0150776	3	1.10E-10	1.59E-05
43	0.221042012	-2.08138843	-1.46879105	0.437626551	1.785634097	0.026925861	1.347516912	-14.5351632	3	1.78E-11	1.64E-05
44	0.214124732	0.035624755	1.969097151	-14.5160938	1.79950657	-2.74989584	-1.75700297	-1.0150776	3	1.45E-10	1.59E-05
45	0.214200273	-0.03353361	-1.16726175	-14.574087	1.214200273	2.300989898	2.334523506	4.623174012	3	5.74E-11	3.12E-05
46	0.79950657	-2.74989584	-1.75700297	-1.0150776	2.214124732	0.035624755	1.969097151	-14.5160938	3	8.68E-11	1.59E-05

47	0.221042012	2.081388434	1.468791047	0.437626551	1.785634097	-0.02692586	-1.34751691	-14.5351632	3	2.06E-11	1.64E-05
48	0.785634097	0.026925861	1.347516912	-14.5351632	2.221042012	-2.08138843	-1.46879105	0.437626551	3	1.88E-11	1.64E-05
49	0.214200273	-0.03353361	-2.33452351	-14.433174	2.214200273	2.300989898	1.167261753	-5.04591299	3	6.36E-11	1.13E-05
50	0.785799727	-0.03353361	-1.16726175	-14.574087	1.785799727	2.300989898	2.334523506	4.623174012	3	5.85E-10	3.46E-05
51	0.214200273	-2.3009899	-1.16726175	-5.04591299	1.214200273	0.033533608	2.334523506	-14.433174	3	9.09E-11	1.13E-05
52	0.100256939	0.930263709	3.016485509	10.68163883	2.780926129	-0.03299305	-0.35933444	-14.6077023	3	4.09E-10	4.37E-05
53	0.79950657	2.749895837	1.757002966	-1.0150776	2.214124732	-0.03562476	-1.96909715	-14.5160938	3	9.06E-11	1.59E-05
54	0.319304402	1.227715238	0.497095603	-10.2341219	0.787535684	-0.03081586	-2.6878407	-14.1068603	3	1.32E-10	6.69E-06
55	0.785799727	0.033533608	2.334523506	-14.433174	2.785799727	-2.3009899	-1.16726175	-5.04591299	3	1.18E-10	1.01E-05
56	0.233094264	-5.53E-20	-4.60E-20	-5.13798842	1.770347027	2.73E-21	2.08E-19	-9.4782953	3	6.20E-11	3.31E-05
57	0.785799727	2.300989898	2.334523506	4.623174012	2.785799727	-0.03353361	-1.16726175	-14.574087	3	9.61E-10	3.46E-05
58	0.785799727	0.033533608	1.167261753	-14.574087	1.785799727	-2.3009899	-2.33452351	4.623174012	3	2.57E-10	3.46E-05
59	0.785799727	-2.3009899	-1.16726175	-5.04591299	1.785799727	0.033533608	2.334523506	-14.433174	3	8.93E-11	1.01E-05
60	0.214200273	-2.3009899	-2.33452351	4.623174012	2.214200273	0.033533608	1.167261753	-14.574087	3	9.63E-11	3.12E-05
61	0.785799727	-2.3009899	-2.33452351	4.623174012	2.785799727	0.033533608	1.167261753	-14.574087	3	1.78E-10	3.46E-05
62	0.214200273	0.033533608	2.334523506	-14.433174	2.214200273	-2.3009899	-1.16726175	-5.04591299	3	1.16E-10	1.13E-05
63	0.780926129	-0.03299305	-0.35933444	-14.6077023	1.100256939	0.930263709	3.016485509	10.68163883	3	5.58E-11	4.37E-05
64	0.785799727	-0.03353361	-2.33452351	-14.433174	2.785799727	2.300989898	1.167261753	-5.04591299	3	2.41E-10	1.01E-05
65	0.770347027	2.40E-26	2.04E-24	-9.4782953	2.233094264	-9.86E-26	-1.57E-24	-5.13798842	3	1.51E-11	3.31E-05
66	0.214200273	0.033533608	1.167261753	-14.574087	1.214200273	-2.3009899	-2.33452351	4.623174012	3	1.71E-10	3.12E-05
67	0.214200273	2.300989898	2.334523506	4.623174012	2.214200273	-0.03353361	-1.16726175	-14.574087	3	6.42E-11	3.12E-05
68	0.780926129	0.032993053	0.35933444	-14.6077023	1.100256939	-0.93026371	-3.01648551	10.68163883	3	1.59E-10	4.37E-05
69	0.787535684	0.03081586	2.687840705	-14.1068603	3.319304402	-1.22771524	-0.4970956	-10.2341219	3	5.87E-11	6.69E-06
70	0.787535684	-0.03081586	-2.6878407	-14.1068603	3.319304402	1.227715238	0.497095603	-10.2341219	3	7.71E-11	6.69E-06
71	0.785799727	2.300989898	1.167261753	-5.04591299	1.785799727	-0.03353361	-2.33452351	-14.433174	3	8.93E-11	1.01E-05
72	0.211905689	-0.05178515	-0.91461484	-14.6007648	0.723655803	2.224005112	4.447073292	9.139292854	3	1.31E-10	6.24E-05
73	0.319304402	-1.22771524	-0.4970956	-10.2341219	0.787535684	0.03081586	2.687840705	-14.1068603	3	4.91E-11	6.69E-06
74	0.211905689	0.05178515	0.914614836	-14.6007648	0.723655803	-2.22400511	-4.44707329	9.139292854	3	1.88E-10	6.24E-05
75	0.723655803	-2.22400511	-4.44707329	9.139292854	3.211905689	0.05178515	0.914614836	-14.6007648	3	6.53E-11	6.24E-05
76	0.283201971	-1.18E-19	-4.13E-18	-10.262215	1.180520595	1.26E-18	1.88E-18	-4.52188019	3	8.05E-11	3.96E-05
77	0.052057658	-1.14E-22	-5.17E-22	4.337271694	2.722773439	9.74E-24	1.11E-22	-13.8337596	3	1.27E-10	3.77E-05
78	0.723655803	2.224005112	4.447073292	9.139292854	3.211905689	-0.05178515	-0.91461484	-14.6007648	3	2.96E-10	6.24E-05
79	0.100256939	-0.93026371	-3.01648551	10.68163883	2.780926129	0.032993053	0.35933444	-14.6077023	3	7.18E-11	4.37E-05
80	0.722773439	-4.11E-20	-7.61E-19	-13.8337596	1.052057658	8.05E-19	2.54E-18	4.337271694	3	1.28E-10	3.77E-05
81	0.924490734	1.20E-29	4.78E-28	1.825387751	3.688474293	-1.08E-29	-4.78E-30	-13.8120617	3	2.45E-10	1.39E-05
82	0.828648233	-5.47E-38	-3.69E-36	-7.47080894	3.375417461	4.82E-37	2.03E-37	-11.5580043	3	1.68E-10	1.51E-05
83	0.688474293	5.57E-24	6.27E-22	-13.8120617	0.924490734	8.25E-23	1.03E-22	1.825387751	3	7.11E-11	1.39E-05
84	0.201941526	-0.02353907	-1.6507574	-19.4801138	2.201941526	3.277975736	1.650757402	-0.13988625	4	1.29E-11	9.75E-06
85	0.201941526	2.831949266	2.859195691	9.529549699	3.201941526	-0.02724643	-0.95306523	-19.5265166	4	5.27E-11	2.44E-05
86	0.201941526	0.023539068	1.650757402	-19.4801138	2.201941526	-3.27797574	-1.6507574	-0.13988625	4	3.12E-11	9.75E-06
87	0.798058474	-0.02724643	-2.85919569	-19.3395497	3.798058474	2.831949266	0.95306523	-9.90348343	4	2.94E-10	4.07E-06
88	0.201941526	-0.02724643	-2.85919569	-19.3395497	3.201941526	2.831949266	0.95306523	-9.90348343	4	6.97E-11	4.64E-06
89	0.823650522	3.351651496	1.28863619	-6.20504643	2.202014742	-0.02668325	-2.45097391	-19.4168685	4	5.56E-11	5.86E-06
90	0.798058474	-0.02724643	-0.95306523	-19.5265166	1.798058474	2.831949266	2.859195691	9.529549699	4	1.67E-10	3.04E-05
91	0.823650522	-3.3516515	-1.28863619	-6.20504643	2.202014742	0.026683245	2.450973909	-19.4168685	4	2.14E-11	5.86E-06
92	0.798058474	3.277975736	1.650757402	-0.13988625	2.798058474	-0.02353907	-1.6507574	-19.4801138	4	1.84E-11	9.24E-06
93	0.798058474	2.831949266	2.859195691	9.529549699	3.798058474	-0.02724643	-0.95306523	-19.5265166	4	1.92E-10	3.04E-05

94	0.201941526	-3.27797574	-1.6507574	-0.13988625	2.201941526	0.023539068	1.650757402	-19.4801138	4	1.27E-11	9.75E-06
95	0.798058474	0.023539068	1.650757402	-19.4801138	2.798058474	-3.27797574	-1.6507574	-0.13988625	4	3.79E-11	9.24E-06
96	0.200364709	0.040323842	0.747040763	-19.5386153	0.733239779	-2.54975981	-4.86058328	13.86297039	4	5.82E-10	5.04E-05
97	0.798086425	-0.02211371	-1.87797151	-19.4425589	3.220846341	2.939898232	1.222577575	-4.26279064	4	2.27E-11	5.72E-06
98	0.201941526	0.027246425	0.95306523	-19.5265166	1.201941526	-2.83194927	-2.85919569	9.529549699	4	5.98E-11	2.44E-05
99	0.798058474	-0.02353907	-1.6507574	-19.4801138	2.798058474	3.277975736	1.650757402	-0.13988625	4	2.05E-11	9.24E-06
100	0.798058474	-2.83194927	-0.95306523	-9.90348343	1.798058474	0.027246425	2.859195691	-19.3395497	4	9.16E-11	4.07E-06
101	0.797862253	0.022627247	1.106082635	-19.5125189	2.192972351	-2.85859624	-2.06523019	5.733285758	4	2.03E-11	1.32E-05
102	0.220846341	-2.93989823	-1.22257757	-4.26279064	1.798086425	0.022113711	1.87797151	-19.4425589	4	1.66E-11	5.72E-06
103	0.797862253	-0.02262725	-1.10608263	-19.5125189	2.192972351	2.85859624	2.065230186	5.733285758	4	2.72E-11	1.32E-05
104	0.201802865	-0.02584682	-1.44330724	-19.5037295	1.794830649	3.44815361	2.180753198	3.816719423	4	6.61E-12	1.40E-05
105	0.202014742	0.026683245	2.450973909	-19.4168685	2.823650522	-3.3516515	-1.28863619	-6.20504643	4	2.11E-11	5.86E-06
106	0.798058474	-3.27797574	-1.6507574	-0.13988625	2.798058474	0.023539068	1.650757402	-19.4801138	4	3.45E-11	9.24E-06
107	0.773753823	-5.92E-26	3.37E-23	-9.81	2.773753823	2.80E-23	1.38E-23	-9.81	4	4.04E-11	2.52E-05
108	0.201941526	3.277975736	1.650757402	-0.13988625	2.201941526	-0.02353907	-1.6507574	-19.4801138	4	2.14E-11	9.75E-06
109	0.798058474	0.027246425	2.859195691	-19.3395497	3.798058474	-2.83194927	-0.95306523	-9.90348343	4	1.53E-10	4.07E-06
110	0.202014742	-0.02668325	-2.45097391	-19.4168685	2.823650522	3.351651496	1.28863619	-6.20504643	4	1.63E-11	5.86E-06
111	0.226246177	-7.09E-24	-1.97E-21	-9.81	2.226246177	6.04E-22	1.88E-22	-9.81	4	4.16E-10	2.56E-05
112	0.201941526	-2.83194927	-0.95306523	-9.90348343	1.201941526	0.027246425	2.859195691	-19.3395497	4	9.29E-11	4.64E-06
113	0.794830649	3.44815361	2.180753198	3.816719423	3.201802865	-0.02584682	-1.44330724	-19.5037295	4	1.15E-11	1.40E-05
114	0.798058474	0.027246425	0.95306523	-19.5265166	1.798058474	-2.83194927	-2.85919569	9.529549699	4	9.14E-11	3.04E-05
115	0.201941526	-2.83194927	-2.85919569	9.529549699	3.201941526	0.027246425	0.95306523	-19.5265166	4	1.87E-11	2.44E-05
116	0.201802865	0.025846825	1.443307244	-19.5037295	1.794830649	-3.44815361	-2.1807532	3.816719423	4	1.31E-11	1.40E-05
117	0.192972351	-2.85859624	-2.06523019	5.733285758	2.797862253	0.022627247	1.106082635	-19.5125189	4	7.10E-12	1.32E-05
118	0.201941526	-0.02724643	-0.95306523	-19.5265166	1.201941526	2.831949266	2.859195691	9.529549699	4	1.03E-10	2.44E-05
119	0.799273922	0.029200128	3.554725867	-19.0490475	4.304542992	-1.72943271	-0.50171122	-14.8472734	4	9.14E-12	2.91E-06
120	0.798058474	-2.83194927	-2.85919569	9.529549699	3.798058474	0.027246425	0.95306523	-19.5265166	4	2.45E-11	3.04E-05
121	0.733239779	2.54975981	4.860583277	13.86297039	4.200364709	-0.04032384	-0.74704076	-19.5386153	4	9.77E-10	5.04E-05
122	0.201941526	2.831949266	0.95306523	-9.90348343	1.201941526	-0.02724643	-2.85919569	-19.3395497	4	3.58E-11	4.64E-06
123	0.220846341	2.939898232	1.222577575	-4.26279064	1.798086425	-0.02211371	-1.87797151	-19.4425589	4	3.52E-12	5.72E-06
124	0.794830649	-3.44815361	-2.1807532	3.816719423	3.201802865	0.025846825	1.443307244	-19.5037295	4	2.14E-12	1.40E-05
125	0.192972351	2.85859624	2.065230186	5.733285758	2.797862253	-0.02262725	-1.10608263	-19.5125189	4	4.61E-11	1.32E-05
126	0.201941526	0.027246425	2.859195691	-19.3395497	3.201941526	-2.83194927	-0.95306523	-9.90348343	4	9.83E-11	4.64E-06
127	0.798086425	0.022113711	1.87797151	-19.4425589	3.220846341	-2.93989823	-1.22257757	-4.26279064	4	3.12E-11	5.72E-06
128	0.793588544	-0.03641745	-0.3306967	-19.5433703	1.058527608	1.198754877	4.662099676	15.94063711	4	1.10E-10	4.00E-05
129	0.798058474	2.831949266	0.95306523	-9.90348343	1.798058474	-0.02724643	-2.85919569	-19.3395497	4	2.77E-10	4.07E-06
130	0.793588544	0.036417449	0.3306967	-19.5433703	1.058527608	-1.19875488	-4.66209968	15.94063711	4	7.13E-10	4.00E-05
131	0.058527608	-1.19875488	-4.66209968	15.94063711	3.793588544	0.036417449	0.3306967	-19.5433703	4	1.15E-10	4.00E-05
132	0.200364709	-0.04032384	-0.74704076	-19.5386153	0.733239779	2.54975981	4.860583277	13.86297039	4	1.10E-09	5.04E-05
133	0.73787889	1.62E-18	8.34E-17	-13.6817006	2.172949985	4.00E-18	8.68E-17	-5.07167898	4	1.42E-10	2.08E-05
134	0.799273922	-0.02920013	-3.55472587	-19.0490475	4.304542992	1.729432708	0.501711224	-14.8472734	4	1.73E-11	2.91E-06
135	0.058527608	1.198754877	4.662099676	15.94063711	3.793588544	-0.03641745	-0.3306967	-19.5433703	4	1.67E-10	4.00E-05
136	0.172949985	8.77E-22	4.17E-20	-5.07167898	2.73787889	4.02E-22	9.76E-21	-13.6817006	4	1.09E-10	2.08E-05
137	0.89826655	1.77E-25	1.38E-23	-5.94495013	4.404845584	-2.07E-25	5.34E-24	-16.7037965	4	1.47E-10	8.47E-06
138	0.304542992	1.729432708	0.501711224	-14.8472734	0.799273922	-0.02920013	-3.55472587	-19.0490475	4	1.72E-11	2.91E-06
139	0.404845584	3.85E-32	6.39E-32	-16.7037965	0.89826655	-2.21E-32	-1.42E-30	-5.94495013	4	4.80E-10	8.47E-06
140	0.810619436	-0.01917345	-1.34783777	-24.4319663	2.810619436	4.02433987	2.021756662	4.765449393	5	1.44E-11	8.50E-06

141	0.810619436	4.02433987	1.347837775	-4.99803374	2.810619436	-0.01917345	-2.02175666	-24.3854494	5	2.58E-11	3.64E-06
142	0.189380564	0.023539068	3.301514804	-24.2452275	4.189380564	-3.27797574	-0.8253787	-14.7849431	5	9.60E-11	2.30E-06
143	0.810619436	-0.01917345	-2.02175666	-24.3854494	3.810619436	4.02433987	1.347837775	-4.99803374	5	2.81E-11	3.64E-06
144	0.189380564	0.019173454	2.021756662	-24.3854494	3.189380564	-4.02433987	-1.34783777	-4.99803374	5	1.35E-11	4.02E-06
145	0.818559362	4.285079629	1.637277966	-1.37354522	3.189363681	-0.01964453	-1.8157231	-24.4072968	5	6.45E-11	5.08E-06
146	0.189363681	-0.01964453	-1.8157231	-24.4072968	2.818559362	4.285079629	1.637277966	-1.37354522	5	1.13E-10	5.08E-06
147	0.189380564	-4.02433987	-2.02175666	4.765449393	3.189380564	0.019173454	1.347837775	-24.4319663	5	7.31E-11	8.22E-06
148	0.193295432	-3.90952347	-1.64830595	1.033484	2.810583784	0.017914316	1.500575122	-24.4183818	5	1.15E-10	4.73E-06
149	0.189380564	-4.02433987	-1.34783777	-4.99803374	2.189380564	0.019173454	2.021756662	-24.3854494	5	1.02E-10	4.02E-06
150	0.810583784	-0.01791432	-1.50057512	-24.4183818	3.193295432	3.90952347	1.648305949	1.033484	5	9.59E-11	4.73E-06
151	0.810619436	-0.02353907	-0.8253787	-24.4550569	1.810619436	3.277975736	3.301514804	14.43522751	5	3.70E-11	2.70E-05
152	0.189380564	-0.01917345	-1.34783777	-24.4319663	2.189380564	4.02433987	2.021756662	4.765449393	5	2.56E-11	8.22E-06
153	0.189471735	0.022336792	2.864436043	-24.3176873	3.841776513	-3.83804998	-1.05697279	-11.380608	5	3.62E-11	2.73E-06
154	0.841776513	-3.83804998	-1.05697279	-11.380608	2.189471735	0.022336792	2.864436043	-24.3176873	5	3.71E-11	2.73E-06
155	0.189363681	0.019644529	1.815723097	-24.4072968	2.818559362	-4.28507963	-1.63727797	-1.37354522	5	3.84E-10	5.08E-06
156	0.810583784	0.017914316	1.500575122	-24.4183818	3.193295432	-3.90952347	-1.64830595	1.033484	5	6.60E-11	4.73E-06
157	0.810619436	4.02433987	2.021756662	4.765449393	3.810619436	-0.01917345	-1.34783777	-24.4319663	5	3.35E-11	8.50E-06
158	0.810445946	-0.01988375	-0.95155648	-24.448185	2.173355829	3.44101293	2.539343738	10.94986403	5	1.82E-10	1.08E-05
159	0.744456545	4.57E-21	5.63E-19	-14.4036881	2.816975233	1.53E-19	1.04E-19	-10.1029991	5	6.14E-12	1.15E-05
160	0.189380564	-0.01917345	-2.02175666	-24.3854494	3.189380564	4.02433987	1.347837775	-4.99803374	5	7.43E-12	4.02E-06
161	0.173355829	-3.44101293	-2.53934374	10.94986403	3.810445946	0.019883748	0.951556483	-24.448185	5	7.03E-11	1.08E-05
162	0.810445946	0.019883748	0.951556483	-24.448185	2.173355829	-3.44101293	-2.53934374	10.94986403	5	2.70E-10	1.08E-05
163	0.189257407	-0.0211493	-1.19733519	-24.4425949	1.800711858	4.036075513	2.517740921	8.543351511	5	6.23E-10	1.21E-05
164	0.189380564	-3.27797574	-0.8253787	-14.7849431	1.189380564	0.023539068	3.301514804	-24.2452275	5	5.65E-10	2.30E-06
165	0.810619436	0.019173454	2.021756662	-24.3854494	3.810619436	-4.02433987	-1.34783777	-4.99803374	5	9.71E-12	3.64E-06
166	0.810619436	0.023539068	0.825378701	-24.4550569	1.810619436	-3.27797574	-3.3015148	14.43522751	5	1.31E-10	2.70E-05
167	0.810674498	-0.01903338	-2.27496483	-24.3502282	4.212934329	3.615769312	1.068349529	-8.93324381	5	3.10E-10	2.61E-06
168	0.189380564	4.02433987	2.021756662	4.765449393	3.189380564	-0.01917345	-1.34783777	-24.4319663	5	1.03E-10	8.22E-06
169	0.212934329	3.615769312	1.068349529	-8.93324381	1.810674498	-0.01903338	-2.27496483	-24.3502282	5	9.28E-11	2.61E-06
170	0.189380564	0.023539068	0.825378701	-24.4550569	1.189380564	-3.27797574	-3.3015148	14.43522751	5	5.07E-10	1.95E-05
171	0.189380564	0.019173454	1.347837775	-24.4319663	2.189380564	-4.02433987	-2.02175666	4.765449393	5	6.01E-11	8.22E-06
172	0.193295432	3.90952347	1.648305949	1.033484	2.810583784	-0.01791432	-1.50057512	-24.4183818	5	1.31E-10	4.73E-06
173	0.810619436	-3.27797574	-3.3015148	14.43522751	4.810619436	0.023539068	0.825378701	-24.4550569	5	6.40E-11	2.70E-05
174	0.189380564	4.02433987	1.347837775	-4.99803374	2.189380564	-0.01917345	-2.02175666	-24.3854494	5	1.20E-11	4.02E-06
175	0.173355829	3.44101293	2.539343738	10.94986403	3.810445946	-0.01988375	-0.95155648	-24.448185	5	4.73E-11	1.08E-05
176	0.189380564	-0.02353907	-3.3015148	-24.2452275	4.189380564	3.277975736	0.825378701	-14.7849431	5	4.32E-10	2.30E-06
177	0.810674498	0.019033376	2.274964828	-24.3502282	4.212934329	-3.61576931	-1.06834953	-8.93324381	5	1.30E-10	2.61E-06
178	0.811518277	-0.02670428	-4.17021388	-23.9876625	5.288162559	2.155801001	0.48753154	-19.4536995	5	1.99E-10	1.52E-06
179	0.212934329	-3.61576931	-1.06834953	-8.93324381	1.810674498	0.019033376	2.274964828	-24.3502282	5	7.82E-11	2.61E-06
180	0.746033436	-2.86385579	-5.19417101	18.54909459	5.18822505	0.033496358	0.652234842	-24.4617369	5	3.19E-10	3.90E-05
181	0.800711858	-4.03607551	-2.51774092	8.543351511	4.189257407	0.0211493	1.197335185	-24.4425949	5	5.15E-10	1.21E-05
182	0.189471735	-0.02233679	-2.86443604	-24.3176873	3.841776513	3.838049975	1.056972789	-11.380608	5	1.99E-11	2.73E-06
183	0.810619436	-0.02353907	-3.3015148	-24.2452275	4.810619436	3.277975736	0.825378701	-14.7849431	5	1.63E-11	2.00E-06
184	0.189380564	3.277975736	3.301514804	14.43522751	4.189380564	-0.02353907	-0.8253787	-24.4550569	5	7.40E-10	1.95E-05
185	0.810619436	-4.02433987	-1.34783777	-4.99803374	2.810619436	0.019173454	2.021756662	-24.3854494	5	1.66E-11	3.64E-06
186	0.189380564	-0.02353907	-0.8253787	-24.4550569	1.189380564	3.277975736	3.301514804	14.43522751	5	4.17E-10	1.95E-05
187	0.810619436	0.019173454	1.347837775	-24.4319663	2.810619436	-4.02433987	-2.02175666	4.765449393	5	1.93E-11	8.50E-06

188	0.818559362	-4.28507963	-1.63727797	-1.37354522	3.189363681	0.019644529	1.815723097	-24.4072968	5	4.27E-11	5.08E-06
189	0.189257407	0.0211493	1.197335185	-24.4425949	1.800711858	-4.03607551	-2.51774092	8.543351511	5	5.30E-10	1.21E-05
190	0.810619436	-4.02433987	-2.02175666	4.765449393	3.810619436	0.019173454	1.347837775	-24.4319663	5	2.70E-11	8.50E-06
191	0.189380564	-3.27797574	-3.3015148	14.43522751	4.189380564	0.023539068	0.825378701	-24.4550569	5	5.67E-10	1.95E-05
192	0.217544751	-1.72E-24	-2.35E-24	-10.7582622	2.778041976	1.54E-25	1.33E-23	-13.7096783	5	1.41E-10	1.01E-05
193	0.778041976	-8.04E-30	-1.91E-27	-13.7096783	3.217544751	2.08E-28	6.39E-29	-10.7582622	5	6.06E-11	1.01E-05
194	0.800711858	4.036075513	2.517740921	8.543351511	4.189257407	-0.0211493	-1.19733519	-24.4425949	5	8.38E-10	1.21E-05
195	0.810619436	0.023539068	3.301514804	-24.2452275	4.810619436	-3.27797574	-0.8253787	-14.7849431	5	2.55E-11	2.00E-06
196	0.288162559	2.155801001	0.48753154	-19.4536995	0.811518277	-0.02670428	-4.17021388	-23.9876625	5	1.20E-10	1.52E-06
197	0.841776513	3.838049975	1.056972789	-11.380608	2.189471735	-0.02233679	-2.86443604	-24.3176873	5	3.25E-11	2.73E-06
198	0.310871279	-3.30E-30	-4.13E-30	-16.1797399	1.86255829	4.38E-31	4.38E-29	-9.24271534	5	1.00E-11	7.15E-06
199	0.288162559	-2.155801	-0.48753154	-19.4536995	0.811518277	0.02670428	4.170213879	-23.9876625	5	3.44E-11	1.52E-06
200	0.810619436	-3.27797574	-0.8253787	-14.7849431	1.810619436	0.023539068	3.301514804	-24.2452275	5	2.49E-12	2.00E-06
201	0.18822505	0.033496358	0.652234842	-24.4617369	0.746033436	-2.86385579	-5.19417101	18.54909459	5	4.24E-10	3.90E-05
202	0.104531184	-1.55E-23	-1.12E-23	-5.2262839	3.699408157	8.87E-25	8.49E-23	-18.2839972	5	1.38E-10	1.15E-05
203	0.810619436	3.277975736	3.301514804	14.43522751	4.810619436	-0.02353907	-0.8253787	-24.4550569	5	7.75E-11	2.70E-05
204	0.189380564	3.277975736	0.825378701	-14.7849431	1.189380564	-0.02353907	-3.3015148	-24.2452275	5	3.22E-10	2.30E-06
205	0.811518277	0.02670428	4.170213879	-23.9876625	5.288162559	-2.155801	-0.48753154	-19.4536995	5	1.23E-10	1.52E-06
206	0.18822505	-0.03349636	-0.65223484	-24.4617369	0.746033436	2.863855788	5.194171008	18.54909459	5	1.34E-10	3.90E-05
207	0.176408316	-0.01563016	-1.6507574	-29.3371142	3.176408316	4.936642048	1.650757402	-0.09288575	6	5.13E-10	3.49E-06
208	0.823591684	0.015630158	1.650757402	-29.3371142	3.823591684	-4.93664205	-1.6507574	-0.09288575	6	7.90E-10	3.30E-06
209	0.176408316	0.016584873	1.167261753	-29.360308	2.176408316	-4.65246214	-2.33452351	9.670616007	6	2.66E-11	6.69E-06
210	0.823591684	-0.01658487	-1.16726175	-29.360308	2.823591684	4.652462139	2.334523506	9.670616007	6	1.03E-10	7.44E-06
211	0.176408316	-0.02102361	-3.69120577	-29.150631	5.176408316	3.670182151	0.738241153	-19.6758738	6	7.92E-11	1.30E-06
212	0.823591684	-0.01563016	-1.6507574	-29.3371142	3.823591684	4.936642048	1.650757402	-0.09288575	6	3.91E-11	3.30E-06
213	0.17637966	0.01621994	1.512033312	-29.3468624	2.824469548	-5.05197981	-1.91390775	3.347003999	6	5.41E-10	4.38E-06
214	0.823591684	4.652462139	2.334523506	9.670616007	4.823591684	-0.01658487	-1.16726175	-29.360308	6	2.60E-11	7.44E-06
215	0.176417263	-0.01652203	-2.12854843	-29.3108919	3.836507382	4.964089476	1.360789309	-6.55163036	6	3.40E-11	2.38E-06
216	0.823591684	-4.93664205	-1.6507574	-0.09288575	3.823591684	0.015630158	1.650757402	-29.3371142	6	1.23E-09	3.30E-06
217	0.823591684	0.021023614	0.738241153	-29.3741262	1.823591684	-3.67018215	-3.69120577	19.34063105	6	2.80E-10	2.42E-05
218	0.176408316	0.021023614	3.691205765	-29.150631	5.176408316	-3.67018215	-0.73824115	-19.6758738	6	2.73E-11	1.30E-06
219	0.176408316	0.015630158	1.650757402	-29.3371142	3.176408316	-4.93664205	-1.6507574	-0.09288575	6	4.70E-10	3.49E-06
220	0.214200273	1.18E-26	4.13E-27	-14.715	3.214200273	-2.67E-28	-2.42E-26	-14.715	6	7.78E-11	7.91E-06
221	0.176408316	4.936642048	1.650757402	-0.09288575	3.176408316	-0.01563016	-1.6507574	-29.3371142	6	3.30E-10	3.49E-06
222	0.156160092	-3.91873354	-2.95391065	16.14662658	4.823439735	0.018003323	0.843475678	-29.3702106	6	7.26E-12	8.99E-06
223	0.823591684	0.016584873	2.334523506	-29.290616	4.823591684	-4.65246214	-1.16726175	-9.879692	6	1.80E-11	1.79E-06
224	0.176497744	-0.01967716	-3.23845103	-29.2183042	4.8582661	4.249351469	0.911841061	-16.5577541	6	1.06E-11	1.47E-06
225	0.823591684	-0.01658487	-2.33452351	-29.290616	4.823591684	4.652462139	1.167261753	-9.879692	6	1.44E-11	1.79E-06
226	0.823591684	0.016584873	1.167261753	-29.360308	2.823591684	-4.65246214	-2.33452351	9.670616007	6	2.47E-11	7.44E-06
227	0.823549393	0.015492006	1.281592939	-29.3536386	3.173786777	-4.66201799	-1.99022874	6.255587143	6	1.24E-10	3.97E-06
228	0.823589195	-0.01524223	-1.80388298	-29.324368	4.185465194	4.743624746	1.415539114	-3.63289487	6	1.15E-11	2.21E-06
229	0.176303964	0.018249776	1.048885468	-29.3661235	1.810232999	-4.56125861	-2.80275844	13.23046994	6	1.68E-10	1.04E-05
230	0.823591684	-4.65246214	-1.16726175	-9.879692	2.823591684	0.016584873	2.334523506	-29.290616	6	6.50E-12	1.79E-06
231	0.823589195	0.015242226	1.803882976	-29.324368	4.185465194	-4.74362475	-1.41553911	-3.63289487	6	9.48E-12	2.21E-06
232	0.810232999	4.561258611	2.802758436	13.23046994	5.176303964	-0.01824978	-1.04888547	-29.3661235	6	1.87E-10	1.04E-05
233	0.176408316	0.021023614	0.738241153	-29.3741262	1.176408316	-3.67018215	-3.69120577	19.34063105	6	4.95E-11	1.57E-05
234	0.176417263	0.016522027	2.12854843	-29.3108919	3.836507382	-4.96408948	-1.36078931	-6.55163036	6	5.18E-11	2.38E-06

235	0.823549393	-0.01549201	-1.28159294	-29.3536386	3.173786777	4.662017992	1.990228745	6.255587143	6	3.72E-11	3.97E-06
236	0.176408316	4.652462139	1.167261753	-9.879692	2.176408316	-0.01658487	-2.33452351	-29.290616	6	9.99E-12	2.02E-06
237	0.185465194	-4.74362475	-1.41553911	-3.63289487	2.823589195	0.015242226	1.803882976	-29.324368	6	8.31E-12	2.21E-06
238	0.176408316	-4.93664205	-1.6507574	-0.09288575	3.176408316	0.015630158	1.650757402	-29.3371142	6	2.46E-10	3.49E-06
239	0.176408316	-0.01658487	-1.16726175	-29.360308	2.176408316	4.652462139	2.334523506	9.670616007	6	2.75E-11	6.69E-06
240	0.824283204	-0.02439155	-4.64738324	-28.92311	6.271030681	2.546784959	0.472057226	-24.05408	6	1.47E-11	8.89E-07
241	0.823439735	0.018003323	0.843475678	-29.3702106	2.156160092	-3.91873354	-2.95391065	16.14662658	6	3.53E-11	8.99E-06
242	0.8582661	-4.24935147	-0.91184106	-16.5577541	2.176497744	0.019677155	3.23845103	-29.2183042	6	1.95E-11	1.47E-06
243	0.823591684	0.021023614	3.691205765	-29.150631	5.823591684	-3.67018215	-0.73824115	-19.6758738	6	3.34E-12	1.11E-06
244	0.176408316	0.016584873	2.334523506	-29.290616	4.176408316	-4.65246214	-1.16726175	-9.879692	6	7.01E-12	2.02E-06
245	0.823439735	-0.01800332	-0.84347568	-29.3702106	2.156160092	3.918733538	2.953910653	16.14662658	6	4.86E-11	8.99E-06
246	0.823648261	-0.016891	-2.60147143	-29.2579919	5.202244589	4.20114434	0.963330488	-13.587725	6	4.61E-11	1.39E-06
247	0.823591684	-0.02102361	-0.73824115	-29.3741262	1.823591684	3.670182151	3.691205765	19.34063105	6	1.18E-10	2.42E-05
248	0.176408316	3.670182151	3.691205765	19.34063105	5.176408316	-0.02102361	-0.73824115	-29.3741262	6	3.14E-10	1.57E-05
249	0.823591684	4.652462139	1.167261753	-9.879692	2.823591684	-0.01658487	-2.33452351	-29.290616	6	3.20E-11	1.79E-06
250	0.785799727	-4.39E-21	5.87E-18	-14.715	3.785799727	2.44E-18	8.19E-19	-14.715	6	1.98E-11	7.78E-06
251	0.173786777	-4.66201799	-1.99022874	6.255587143	3.823549393	0.015492006	1.281592939	-29.3536386	6	3.04E-11	3.97E-06
252	0.824469548	-5.05197981	-1.91390775	3.347003999	4.17637966	0.01621994	1.512033312	-29.3468624	6	8.34E-10	4.38E-06
253	0.185465194	4.743624746	1.415539114	-3.63289487	2.823589195	-0.01524223	-1.80388298	-29.324368	6	1.43E-11	2.21E-06
254	0.17637966	-0.01621994	-1.51203331	-29.3468624	2.824469548	5.051979807	1.913907745	3.347003999	6	9.72E-10	4.38E-06
255	0.175524338	-0.02886285	-0.5907789	-29.3782365	0.760382176	3.17028887	5.469964686	23.21327137	6	3.50E-10	3.08E-05
256	0.176408316	-3.67018215	-0.73824115	-19.6758738	1.176408316	0.021023614	3.691205765	-29.150631	6	7.73E-11	1.30E-06
257	0.176497744	0.019677155	3.23845103	-29.2183042	4.8582661	-4.24935147	-0.91184106	-16.5577541	6	9.83E-12	1.47E-06
258	0.321469152	-2.83E-30	-5.94E-29	-20.6401345	2.085336235	4.26E-30	1.49E-28	-8.98342526	6	7.18E-11	5.55E-06
259	0.156160092	3.918733538	2.953910653	16.14662658	4.823439735	-0.01800332	-0.84347568	-29.3702106	6	1.90E-11	8.99E-06
260	0.824469548	5.051979807	1.913907745	3.347003999	4.17637966	-0.01621994	-1.51203331	-29.3468624	6	1.56E-09	4.38E-06
261	0.836507382	4.964089476	1.360789309	-6.55163036	3.176417263	-0.01652203	-2.12854843	-29.3108919	6	4.41E-12	2.38E-06
262	0.271030681	2.546784959	0.472057226	-24.05408	0.824283204	-0.02439155	-4.64738324	-28.92311	6	7.17E-12	8.89E-07
263	0.173786777	4.662017992	1.990228745	6.255587143	3.823549393	-0.01549201	-1.28159294	-29.3536386	6	9.78E-11	3.97E-06
264	0.176303964	-0.01824978	-1.04888547	-29.3661235	1.810232999	4.561258611	2.802758436	13.23046994	6	3.52E-10	1.04E-05
265	0.823648261	0.016890996	2.601471434	-29.2579919	5.202244589	-4.20114434	-0.96333049	-13.587725	6	8.76E-11	1.39E-06
266	0.823591684	-0.02102361	-3.69120577	-29.150631	5.823591684	3.670182151	0.738241153	-19.6758738	6	4.67E-12	1.11E-06
267	0.823591684	3.670182151	0.738241153	-19.6758738	1.823591684	-0.02102361	-3.69120577	-29.150631	6	1.28E-12	1.11E-06
268	0.823591684	4.936642048	1.650757402	-0.09288575	3.823591684	-0.01563016	-1.6507574	-29.3371142	6	8.56E-10	3.30E-06
269	0.176408316	-0.01658487	-2.33452351	-29.290616	4.176408316	4.652462139	1.167261753	-9.879692	6	2.56E-12	2.02E-06
270	0.8582661	4.249351469	0.911841061	-16.5577541	2.176497744	-0.01967716	-3.23845103	-29.2183042	6	2.73E-12	1.47E-06
271	0.202244589	4.20114434	0.963330488	-13.587725	1.823648261	-0.016891	-2.60147143	-29.2579919	6	2.19E-11	1.39E-06
272	0.176408316	-4.65246214	-1.16726175	-9.879692	2.176408316	0.016584873	2.334523506	-29.290616	6	6.52E-12	2.02E-06
273	0.176408316	4.652462139	2.334523506	9.670616007	4.176408316	-0.01658487	-1.16726175	-29.360308	6	2.71E-11	6.69E-06
274	0.176408316	3.670182151	0.738241153	-19.6758738	1.176408316	-0.02102361	-3.69120577	-29.150631	6	7.54E-12	1.30E-06
275	0.162878466	0.01368546	1.774415951	-34.25114	3.842766231	-5.87757465	-1.60093473	-1.84036013	7	7.44E-13	2.08E-06
276	0.837115407	0.014823363	2.610076627	-34.1957156	5.837115407	-5.20532989	-1.04403065	-14.7707138	7	4.29E-12	1.00E-06
277	0.83710235	0.013109783	1.537472619	-34.2591658	4.165614651	-5.63170202	-1.69589633	1.598646024	7	1.11E-11	1.89E-06
278	0.837115407	-5.704866	-1.90613046	4.812187884	4.837115407	0.013525382	1.429597846	-34.2653909	7	9.01E-11	3.06E-06
279	0.162795876	-0.01622622	-0.94760507	-34.2828246	1.821745366	5.044980311	3.050850288	17.89272499	7	1.52E-11	9.09E-06
280	0.162884593	0.014823363	1.044030651	-34.2792862	2.162884593	-5.20532989	-2.61007663	14.57571559	7	2.54E-11	5.52E-06
281	0.162884593	-0.01352538	-1.90613046	-34.2421879	4.162884593	5.704866	1.429597846	-4.97460909	7	5.47E-11	1.78E-06

282	0.837168051	-0.01529289	-2.88163154	-34.1658214	6.189940634	4.731409594	0.886774548	-18.227761	7	1.91E-12	8.24E-07
283	0.837115407	0.013525382	1.429597846	-34.2653909	3.837115407	-5.704866	-1.90613046	4.812187884	7	3.46E-11	3.06E-06
284	0.837115407	0.013525382	1.906130461	-34.2421879	4.837115407	-5.704866	-1.42959785	-4.97460909	7	2.77E-11	1.62E-06
285	0.162795876	0.016226217	0.947605067	-34.2828246	1.821745366	-5.04498031	-3.05085029	17.89272499	7	9.37E-11	9.09E-06
286	0.162878466	-0.01368546	-1.77441595	-34.25114	3.842766231	5.877574648	1.600934725	-1.84036013	7	4.96E-12	2.08E-06
287	0.83710235	-0.01310978	-1.53747262	-34.2591658	4.165614651	5.631702025	1.695896334	1.598646024	7	1.11E-11	1.89E-06
288	0.165614651	5.631702025	1.695896334	1.598646024	3.83710235	-0.01310978	-1.53747262	-34.2591658	7	1.92E-12	1.89E-06
289	0.162884593	-0.01482336	-2.61007663	-34.1957156	5.162884593	5.205329892	1.044030651	-14.7707138	7	2.19E-12	1.15E-06
290	0.837074694	0.013879786	1.133967406	-34.2754972	3.156516625	-5.29372051	-2.28830919	11.46120004	7	4.25E-11	3.36E-06
291	0.821745366	-5.04498031	-3.05085029	17.89272499	6.162795876	0.016226217	0.947605067	-34.2828246	7	1.02E-10	9.09E-06
292	0.162855718	0.014090499	1.326065748	-34.2706698	2.834229033	-5.72595308	-2.14872386	8.024588753	7	1.12E-10	3.82E-06
293	0.83698034	-0.01663295	-0.76227476	-34.2860567	2.139658516	4.32629167	3.33384308	21.34167136	7	2.14E-10	7.54E-06
294	0.78707991	-6.73E-43	-9.76E-41	-18.3893207	4.202540301	3.59E-42	8.61E-42	-15.9057219	7	6.98E-12	4.10E-06
295	0.852950396	5.544741363	1.185341397	-11.7337669	3.162901037	-0.0145683	-2.40667898	-34.2144314	7	6.01E-12	1.30E-06
296	0.162884593	5.205329892	2.610076627	14.57571559	5.162884593	-0.01482336	-1.04403065	-34.2792862	7	2.15E-11	5.52E-06
297	0.162901037	-0.0145683	-2.40667898	-34.2144314	4.852950396	5.544741363	1.185341397	-11.7337669	7	1.55E-11	1.30E-06
298	0.837115407	-0.01352538	-1.90613046	-34.2421879	4.837115407	5.704866	1.429597846	-4.97460909	7	5.97E-11	1.62E-06
299	0.837122876	0.01346475	2.057512613	-34.2304125	5.174642781	-5.46462163	-1.2629536	-8.28026875	7	1.71E-11	1.20E-06
300	0.837122876	-0.01346475	-2.05751261	-34.2304125	5.174642781	5.464621629	1.2629536	-8.28026875	7	2.43E-11	1.20E-06
301	0.842766231	-5.87757465	-1.60093473	-1.84036013	4.162878466	0.01368546	1.774415951	-34.25114	7	6.16E-12	2.08E-06
302	0.156516625	5.293720506	2.288309192	11.46120004	4.837074694	-0.01387979	-1.13396741	-34.2754972	7	4.89E-11	3.36E-06
303	0.837074694	-0.01387979	-1.13396741	-34.2754972	3.156516625	5.293720506	2.288309192	11.46120004	7	4.22E-11	3.36E-06
304	0.156516625	-5.29372051	-2.28830919	11.46120004	4.837074694	0.013879786	1.133967406	-34.2754972	7	1.50E-10	3.36E-06
305	0.162884593	5.704866	1.429597846	-4.97460909	3.162884593	-0.01352538	-1.90613046	-34.2421879	7	5.42E-11	1.78E-06
306	0.162884593	-5.704866	-1.42959785	-4.97460909	3.162884593	0.013525382	1.906130461	-34.2421879	7	2.79E-11	1.78E-06
307	0.174642781	-5.46462163	-1.2629536	-8.28026875	2.837122876	0.01346475	2.057512613	-34.2304125	7	1.83E-11	1.20E-06
308	0.162884593	-0.01352538	-1.42959785	-34.2653909	3.162884593	5.704866	1.906130461	4.812187884	7	1.47E-11	3.08E-06
309	0.162884593	0.014823363	2.610076627	-34.1957156	5.162884593	-5.20532989	-1.04403065	-14.7707138	7	5.39E-12	1.15E-06
310	0.139658516	4.32629167	3.33384308	21.34167136	5.83698034	-0.01663295	-0.76227476	-34.2860567	7	1.74E-10	7.54E-06
311	0.165614651	-5.63170202	-1.69589633	1.598646024	3.83710235	0.013109783	1.537472619	-34.2591658	7	7.11E-12	1.89E-06
312	0.834229033	5.725953082	2.14872386	8.024588753	5.162855718	-0.0140905	-1.32606575	-34.2706698	7	3.28E-10	3.82E-06
313	0.837115407	-5.20532989	-1.04403065	-14.7707138	2.837115407	0.014823363	2.610076627	-34.1957156	7	9.07E-12	1.00E-06
314	0.162855718	-0.0140905	-1.32606575	-34.2706698	2.834229033	5.725953082	2.14872386	8.024588753	7	5.15E-10	3.82E-06
315	0.162884593	0.013525382	1.429597846	-34.2653909	3.162884593	-5.704866	-1.90613046	4.812187884	7	2.11E-11	3.08E-06
316	0.874425406	-4.6046841	-0.8093449	-21.7432154	2.162968565	0.017854342	3.587414525	-34.1185891	7	2.55E-11	8.81E-07
317	0.162884593	0.019173454	0.673918887	-34.2884831	1.162884593	-4.02433987	-4.04351332	24.24589879	7	7.27E-11	1.29E-05
318	0.162884593	4.02433987	0.673918887	-24.5715169	1.162884593	-0.01917345	-4.04351332	-34.0558988	7	1.37E-11	7.97E-07
319	0.162968565	0.017854342	3.587414525	-34.1185891	5.874425406	-4.6046841	-0.8093449	-21.7432154	7	2.04E-11	8.81E-07
320	0.139658516	-4.32629167	-3.33384308	21.34167136	5.83698034	0.016632954	0.76227476	-34.2860567	7	1.28E-10	7.54E-06
321	0.837115407	5.205329892	2.610076627	14.57571559	5.837115407	-0.01482336	-1.04403065	-34.2792862	7	2.41E-11	6.60E-06
322	0.162884593	0.013525382	1.906130461	-34.2421879	4.162884593	-5.704866	-1.42959785	-4.97460909	7	2.56E-11	1.78E-06
323	0.162884593	-0.01482336	-1.04403065	-34.2792862	2.162884593	5.205329892	2.610076627	14.57571559	7	2.86E-11	5.52E-06
324	0.162901037	0.014568298	2.406678984	-34.2144314	4.852950396	-5.54474136	-1.1853414	-11.7337669	7	1.71E-11	1.30E-06
325	0.837115407	-0.01352538	-1.42959785	-34.2653909	3.837115407	5.704866	1.906130461	4.812187884	7	9.50E-11	3.06E-06
326	0.874425406	4.604684103	0.809344896	-21.7432154	2.162968565	-0.01785434	-3.58741452	-34.1185891	7	7.65E-12	8.81E-07
327	0.174642781	5.464621629	1.2629536	-8.28026875	2.837122876	-0.01346475	-2.05751261	-34.2304125	7	2.22E-11	1.20E-06
328	0.775806302	-3.47217734	-5.70001289	27.85939239	7.162187476	0.025457873	0.547670914	-34.2911858	7	3.18E-10	2.47E-05

329	0.842766231	5.877574648	1.600934725	-1.84036013	4.162878466	-0.01368546	-1.77441595	-34.25114	7	9.76E-12	2.08E-06
330	0.162884593	5.205329892	1.044030651	-14.7707138	2.162884593	-0.01482336	-2.61007663	-34.1957156	7	5.50E-12	1.15E-06
331	0.837115407	-0.01917345	-4.04351332	-34.0558988	6.837115407	4.02433987	0.673918887	-24.5715169	7	2.35E-11	6.80E-07
332	0.837115407	0.019173454	4.043513324	-34.0558988	6.837115407	-4.02433987	-0.67391889	-24.5715169	7	9.99E-12	6.80E-07
333	0.837115407	-4.02433987	-4.04351332	24.24589879	6.837115407	0.019173454	0.673918887	-34.2884831	7	6.09E-09	2.19E-05
334	0.837115407	5.205329892	1.044030651	-14.7707138	2.837115407	-0.01482336	-2.61007663	-34.1957156	7	3.66E-12	1.00E-06
335	0.837115407	-0.01482336	-1.04403065	-34.2792862	2.837115407	5.205329892	2.610076627	14.57571559	7	1.89E-11	6.60E-06
336	0.162884593	-5.20532989	-2.61007663	14.57571559	5.162884593	0.014823363	1.044030651	-34.2792862	7	1.02E-11	5.52E-06
337	0.821745366	5.044980311	3.050850288	17.89272499	6.162795876	-0.01622622	-0.94760507	-34.2828246	7	8.08E-11	9.09E-06
338	0.837115407	5.704866	1.906130461	4.812187884	4.837115407	-0.01352538	-1.42959785	-34.2653909	7	8.83E-11	3.06E-06
339	0.162884593	-5.704866	-1.90613046	4.812187884	4.162884593	0.013525382	1.429597846	-34.2653909	7	1.13E-11	3.08E-06
340	0.162968565	-0.01785434	-3.58741452	-34.1185891	5.874425406	4.604684103	0.809344896	-21.7432154	7	1.76E-11	8.81E-07
341	0.837168051	0.015292892	2.881631545	-34.1658214	6.189940634	-4.73140959	-0.88677455	-18.227761	7	6.61E-12	8.24E-07
342	0.837115407	-0.01917345	-0.67391889	-34.2884831	1.837115407	4.02433987	4.043513324	24.24589879	7	8.75E-09	2.19E-05
343	0.837115407	5.704866	1.429597846	-4.97460909	3.837115407	-0.01352538	-1.90613046	-34.2421879	7	1.82E-11	1.62E-06
344	0.837115407	4.02433987	4.043513324	24.24589879	6.837115407	-0.01917345	-0.67391889	-34.2884831	7	7.01E-10	2.19E-05
345	0.703755332	1.35E-34	2.23E-32	-23.1257199	3.086882173	-1.59E-33	-2.17E-33	-10.759408	7	3.99E-11	4.24E-06
346	0.837115407	-5.20532989	-2.61007663	14.57571559	5.837115407	0.014823363	1.044030651	-34.2792862	7	7.15E-12	6.60E-06
347	0.83698034	0.016632954	0.76227476	-34.2860567	2.139658516	-4.32629167	-3.33384308	21.34167136	7	1.23E-10	7.54E-06
348	0.148608806	0.011918423	1.556499053	-39.1752169	3.853141578	-6.67397225	-1.80478648	2.823416384	8	3.52E-11	1.84E-06
349	0.85138136	-0.01209173	-2.13111864	-39.147232	5.85138136	6.381264201	1.278671185	-9.86566083	8	4.21E-11	9.12E-07
350	0.853141578	6.67397225	1.804786483	2.823416384	5.148608806	-0.01191842	-1.55649905	-39.1752169	8	4.08E-12	1.84E-06
351	0.14861864	-0.01773905	-0.62392765	-39.2001556	1.14861864	4.349754515	4.36749356	29.1510894	8	3.32E-10	1.06E-05
352	0.851392125	-0.01217055	-2.27804055	-39.1365084	6.161988461	6.11440005	1.153650214	-12.9093605	8	1.75E-11	7.21E-07
353	0.148542387	0.014705054	0.873364346	-39.1958868	1.834773193	-5.49951585	-3.27014599	22.53290236	8	3.32E-11	7.98E-06
354	0.148620285	0.01208078	2.006312716	-39.1553843	4.859782067	-6.58635716	-1.40059676	-7.03556686	8	5.22E-12	1.15E-06
355	0.14861864	-0.01352538	-0.95306523	-39.1935939	2.14861864	5.704866	2.859195691	19.48078183	8	2.83E-11	4.59E-06
356	0.14861864	5.704866	0.95306523	-19.6664061	2.14861864	-0.01352538	-2.85919569	-39.1007818	8	4.31E-11	7.18E-07
357	0.14861864	-0.01209173	-1.27867119	-39.1843392	3.14861864	6.381264201	2.131118642	9.717231956	8	2.11E-11	2.60E-06
358	0.85137826	0.011554334	1.752646391	-39.1647335	5.154196216	-6.46829843	-1.50595559	-3.03531665	8	4.27E-11	1.04E-06
359	0.14861864	-5.704866	-2.85919569	19.48078183	6.14861864	0.013525382	0.95306523	-39.1935939	8	3.76E-11	4.59E-06
360	0.139762506	-5.84390861	-2.55924469	16.6689622	5.851343593	0.012715337	1.025394521	-39.1912601	8	2.05E-11	2.86E-06
361	0.85138136	0.011706374	1.650757402	-39.1704322	4.85138136	-6.59132323	-1.6507574	-0.06956778	8	9.95E-11	1.49E-06
362	0.85137826	-0.01155433	-1.75264639	-39.1647335	5.154196216	6.468298431	1.505955592	-3.03531665	8	6.49E-11	1.04E-06
363	0.14861864	-5.704866	-0.95306523	-19.6664061	2.14861864	0.013525382	2.859195691	-39.1007818	8	5.33E-12	7.18E-07
364	0.85138136	-0.01170637	-1.6507574	-39.1704322	4.85138136	6.591323234	1.650757402	-0.06956778	8	6.49E-11	1.49E-06
365	0.148608806	-0.01191842	-1.55649905	-39.1752169	3.853141578	6.67397225	1.804786483	2.823416384	8	1.67E-11	1.84E-06
366	0.148620285	-0.01208078	-2.00631272	-39.1553843	4.859782067	6.586357159	1.400596762	-7.03556686	8	1.36E-12	1.15E-06
367	0.319889778	-1.29E-39	5.14E-38	-25.9178091	2.975297655	2.02E-39	1.76E-37	-13.6233892	8	9.27E-10	1.86E-0
368	0.14861864	0.011706374	1.650757402	-39.1704322	4.14861864	-6.59132323	-1.6507574	-0.06956778	8	5.15E-11	1.59E-06
369	0.859782067	6.586357159	1.400596762	-7.03556686	4.148620285	-0.01208078	-2.00631272	-39.1553843	8	5.39E-12	1.15E-06
370	0.85138136	-0.01773905	-0.62392765	-39.2001556	1.85138136	4.349754515	4.36749356	29.1510894	8	1.81E-09	2.00E-05
371	0.85138136	-6.59132323	-1.6507574	-0.06956778	4.85138136	0.011706374	1.650757402	-39.1704322	8	9.47E-11	1.49E-06
372	0.85138136	0.012091725	1.278671185	-39.1843392	3.85138136	-6.3812642	-2.13111864	9.717231956	8	1.28E-11	2.77E-06
373	0.148637289	-0.01320519	-2.66200928	-39.1178711	5.86921187	6.054646422	1.060706669	-16.9275002	8	7.39E-12	7.88E-07
374	0.14861864	-6.3812642	-1.27867119	-9.86566083	3.14861864	0.012091725	2.131118642	-39.147232	8	1.03E-11	1.03E-06
375	0.147753231	-6.38430212	-1.94030735	6.818020353	4.85136609	0.011702072	1.359806682	-39.1808355	8	1.38E-11	1.62E-06

376	0.85138136	-0.01209173	-1.27867119	-39.1843392	3.85138136	6.381264201	2.131118642	9.717231956	8	3.24E-11	2.77E-06
377	0.14861864	-0.01170637	-1.6507574	-39.1704322	4.14861864	6.591323234	1.650757402	-0.06956778	8	2.95E-11	1.59E-06
378	0.851343593	0.012715337	1.025394521	-39.1912601	3.139762506	-5.84390861	-2.55924469	16.6689622	8	4.52E-11	2.86E-06
379	0.851343593	-0.01271534	-1.02539452	-39.1912601	3.139762506	5.843908615	2.559244689	16.6689622	8	1.69E-11	2.86E-06
380	0.14861864	-0.01209173	-2.13111864	-39.147232	5.14861864	6.381264201	1.278671185	-9.86566083	8	5.81E-12	1.03E-06
381	0.14861864	0.012091725	1.278671185	-39.1843392	3.14861864	-6.3812642	-2.13111864	9.717231956	8	1.06E-11	2.60E-06
382	0.148696823	0.016519948	3.920353127	-39.0184112	6.890909484	-4.91445058	-0.73135791	-26.9424445	8	1.01E-11	5.66E-07
383	0.14861864	-0.01352538	-2.85919569	-39.1007818	6.14861864	5.704866	0.95306523	-19.6664061	8	3.15E-11	7.18E-07
384	0.148696823	-0.01651995	-3.92035313	-39.0184112	6.890909484	4.914450582	0.731357905	-26.9424445	8	1.19E-11	5.66E-07
385	0.148591895	-0.01259799	-1.19781141	-39.1875087	2.84619398	6.338674741	2.35441423	12.67334679	8	9.55E-12	3.36E-06
386	0.139762506	5.843908615	2.559244689	16.6689622	5.851343593	-0.01271534	-1.02539452	-39.1912601	8	8.15E-11	2.86E-06
387	0.14861864	6.381264201	1.278671185	-9.86566083	3.14861864	-0.01209173	-2.13111864	-39.147232	8	3.53E-12	1.03E-06
388	0.14861864	0.012091725	2.131118642	-39.147232	5.14861864	-6.3812642	-1.27867119	-9.86566083	8	9.49E-12	1.03E-06
389	0.85136609	-0.01170207	-1.35980668	-39.1808355	4.147753231	6.384302123	1.940307349	6.818020353	8	4.19E-11	1.62E-06
390	0.750579834	-7.72E-21	-1.13E-18	-23.1736238	4.144938176	1.03E-19	3.01E-20	-15.8583489	8	7.39E-12	3.18E-06
391	0.85138136	0.012091725	2.131118642	-39.147232	5.85138136	-6.3812642	-1.27867119	-9.86566083	8	1.30E-10	9.12E-07
392	0.14861864	5.704866	2.859195691	19.48078183	6.14861864	-0.01352538	-0.95306523	-39.1935939	8	2.06E-11	4.59E-06
393	0.148591895	0.012597992	1.197811412	-39.1875087	2.84619398	-6.33867474	-2.35441423	12.67334679	8	5.33E-11	3.36E-06
394	0.85138136	-0.01352538	-2.85919569	-39.1007818	6.85138136	5.704866	0.95306523	-19.6664061	8	1.11E-11	6.14E-07
395	0.85138136	6.381264201	2.131118642	9.717231956	5.85138136	-0.01209173	-1.27867119	-39.1843392	8	5.20E-11	2.77E-06
396	0.14861864	6.591323234	1.650757402	-0.06956778	4.14861864	-0.01170637	-1.6507574	-39.1704322	8	2.22E-11	1.59E-06
397	0.85138136	-6.3812642	-1.27867119	-9.86566083	3.85138136	0.012091725	2.131118642	-39.147232	8	1.14E-11	9.12E-07
398	0.147753231	6.384302123	1.940307349	6.818020353	4.85136609	-0.01170207	-1.35980668	-39.1808355	8	3.03E-11	1.62E-06
399	0.84619398	6.338674741	2.35441423	12.67334679	6.148591895	-0.01259799	-1.19781141	-39.1875087	8	2.86E-11	3.36E-06
400	0.85138136	0.013525382	0.95306523	-39.1935939	2.85138136	-5.704866	-2.85919569	19.48078183	8	3.03E-11	5.93E-06
401	0.85125934	0.015593033	0.698024621	-39.198577	2.123042224	-4.68086817	-3.6928168	26.54466628	8	5.14E-11	6.33E-06
402	0.176318317	-5.22505194	-0.82832937	-22.8511995	1.851429092	0.014039557	3.127608978	-39.0737279	8	1.67E-12	5.23E-07
403	0.148637289	0.013205187	2.662009277	-39.1178711	5.86921187	-6.05464642	-1.06070667	-16.9275002	8	1.98E-11	7.88E-07
404	0.154196216	-6.46829843	-1.50595559	-3.03531665	3.85137826	0.011554334	1.752646391	-39.1647335	8	9.38E-12	1.04E-06
405	0.835292926	-8.86E-33	-9.86E-31	-18.4145587	5.238995403	8.01E-32	9.86E-32	-20.9674836	8	4.95E-11	2.52E-06
406	0.85138136	-5.704866	-2.85919569	19.48078183	6.85138136	0.013525382	0.95306523	-39.1935939	8	4.52E-11	5.93E-06
407	0.85138136	0.013525382	2.859195691	-39.1007818	6.85138136	-5.704866	-0.95306523	-19.6664061	8	9.12E-12	6.14E-07
408	0.14861864	0.013525382	0.95306523	-39.1935939	2.14861864	-5.704866	-2.85919569	19.48078183	8	9.78E-12	4.59E-06
409	0.85136609	0.011702072	1.359806682	-39.1808355	4.147753231	-6.38430212	-1.94030735	6.818020353	8	3.74E-11	1.62E-06
410	0.14861864	0.017739046	0.623927651	-39.2001556	1.14861864	-4.34975451	-4.36749356	29.1510894	8	1.42E-10	1.06E-05
411	0.85138136	6.591323234	1.650757402	-0.06956778	4.85138136	-0.01170637	-1.6507574	-39.1704322	8	6.68E-11	1.49E-06
412	0.14861864	-4.34975451	-0.62392765	-29.4698444	1.14861864	0.017739046	4.36749356	-38.9610894	8	1.03E-11	5.23E-07
413	0.133337653	0.010951747	2.218079746	-44.0595694	5.876898439	-7.21209012	-1.25758952	-12.2477681	9	1.31E-11	7.05E-07
414	0.133332852	0.011034694	1.167261753	-44.0986306	3.133332852	-6.99253582	-2.33452351	14.62226129	9	1.66E-11	2.21E-06
415	0.133322322	-0.01067871	-1.40568102	-44.0921875	3.866024957	7.393461213	1.983586866	7.452662328	9	4.11E-12	1.63E-06
416	0.147727313	6.715383106	1.070928616	-17.5163839	2.866678835	-0.01117145	-2.47395163	-44.0426665	9	2.88E-12	4.62E-07
417	0.866667148	-0.01103469	-1.16726175	-44.0986306	3.866667148	6.992535824	2.334523506	14.62226129	9	1.06E-11	2.50E-06
418	0.866667148	0.010466776	1.845602883	-44.075457	5.866667148	-7.37194475	-1.47648231	-4.96063443	9	4.66E-12	8.39E-07
419	0.866660938	0.010296691	1.55009627	-44.0862063	5.135400651	-7.32361223	-1.71805015	2.203499377	9	2.80E-11	9.02E-07
420	0.133330026	0.010531797	1.759693052	-44.0797366	4.871091573	-7.4896996	-1.5830749	-2.39115381	9	1.91E-11	1.03E-06
421	0.866667148	-0.01046678	-1.47648231	-44.0893656	4.866667148	7.371944754	1.845602883	4.835456957	9	9.43E-11	1.40E-06
422	0.132871508	0.02067834	0.491897276	-44.1114559	0.809867885	-4.07338447	-6.0473925	37.09127353	9	3.39E-10	1.63E-05

423	0.133332852	0.011034694	2.334523506	-44.0522613	6.133332852	-6.99253582	-1.16726175	-14.7613694	9	1.10E-12	6.47E-07
424	0.866667148	0.011034694	1.167261753	-44.0986306	3.866667148	-6.99253582	-2.33452351	14.62226129	9	2.29E-11	2.50E-06
425	0.866667148	0.010466776	1.476482306	-44.0893656	4.866667148	-7.37194475	-1.84560288	4.835456957	9	4.15E-10	1.40E-06
426	0.132871508	-0.02067834	-0.49189728	-44.1114559	0.809867885	4.073384467	6.047392497	37.09127353	9	2.01E-10	1.63E-05
427	0.133332852	-4.65246214	-4.66904701	34.05623201	8.133332852	0.016584873	0.583630876	-44.110154	9	4.22E-11	8.73E-06
428	0.133332852	0.010466776	1.476482306	-44.0893656	4.133332852	-7.37194475	-1.84560288	4.835456957	9	2.47E-11	1.43E-06
429	0.866667148	-7.37194475	-1.84560288	4.835456957	5.866667148	0.010466776	1.476482306	-44.0893656	9	1.20E-10	1.40E-06
430	0.866555379	0.014784848	0.645113402	-44.1091017	2.105728831	-4.99182837	-4.04028444	31.76388075	9	8.90E-11	5.30E-06
431	0.133332852	0.010466776	1.845602883	-44.075457	5.133332852	-7.37194475	-1.47648231	-4.96063443	9	1.63E-11	9.26E-07
432	0.133308601	0.01147322	1.102975643	-44.1006474	2.859961104	-6.90787627	-2.53767192	17.29449472	9	1.05E-11	2.98E-06
433	0.133332852	-0.01251782	-0.88236695	-44.1052369	2.133332852	6.164050804	3.088284313	24.38582906	9	4.46E-11	3.84E-06
434	0.133266574	0.013501888	0.816399125	-44.1067777	1.849291999	-5.93312859	-3.46535103	27.14854945	9	9.40E-11	7.05E-06
435	0.876898439	7.212090118	1.257589522	-12.2477681	4.133337653	-0.01095175	-2.21807975	-44.0595694	9	1.36E-11	7.05E-07
436	0.866660938	-0.01029669	-1.55009627	-44.0862063	5.135400651	7.323612235	1.718050155	2.203499377	9	6.16E-11	9.02E-07
437	0.133308601	-0.01147322	-1.10297564	-44.1006474	2.859961104	6.907876268	2.537671918	17.29449472	9	1.79E-11	2.98E-06
438	0.866667148	-0.01103469	-2.33452351	-44.0522613	6.866667148	6.992535824	1.167261753	-14.7613694	9	2.99E-11	5.61E-07
439	0.135400651	-7.32361223	-1.71805015	2.203499377	4.866660938	0.010296691	1.55009627	-44.0862063	9	1.05E-10	9.02E-07
440	0.866651835	-0.01068814	-1.22996801	-44.096504	4.13011484	7.045068829	2.162045948	12.0451813	9	1.06E-11	1.39E-06
441	0.871091573	7.489699596	1.583074901	-2.39115381	5.133330026	-0.0105318	-1.75969305	-44.0797366	9	4.14E-11	1.03E-06
442	0.13011484	7.045068829	2.162045948	12.0451813	5.866651835	-0.01068814	-1.22996801	-44.096504	9	3.53E-11	1.39E-06
443	0.133332852	-0.01046678	-1.84560288	-44.075457	5.133332852	7.371944754	1.476482306	-4.96063443	9	2.42E-11	9.26E-07
444	0.866667148	6.164050804	0.882366947	-24.5647631	2.866667148	-0.01251782	-3.08828431	-44.0058291	9	2.16E-12	4.01E-07
445	0.866651835	0.010688136	1.229968005	-44.096504	4.13011484	-7.04506883	-2.16204595	12.0451813	9	6.35E-11	1.39E-06
446	0.135400651	7.323612235	1.718050155	2.203499377	4.866660938	-0.01029669	-1.55009627	-44.0862063	9	4.88E-11	9.02E-07
447	0.871091573	-7.4896996	-1.5830749	-2.39115381	5.133330026	0.010531797	1.759693052	-44.0797366	9	2.98E-11	1.03E-06
448	0.866632294	-0.01183017	-0.9407953	-44.1037341	3.122653164	6.332873722	2.812342731	21.89007795	9	2.86E-11	2.44E-06
449	0.187351163	3.34E-24	1.21E-22	-20.8939085	4.796631203	1.69E-24	-1.05E-23	-23.2206224	9	3.04E-10	2.01E-06
450	0.866667148	7.371944754	1.476482306	-4.96063443	4.866667148	-0.01046678	-1.84560288	-44.075457	9	2.67E-12	8.39E-07
451	0.133337653	-0.01095175	-2.21807975	-44.0595694	5.876898439	7.212090118	1.257589522	-12.2477681	9	6.84E-12	7.05E-07
452	0.133332852	-0.01103469	-1.16726175	-44.0986306	3.133332852	6.992535824	2.334523506	14.62226129	9	9.12E-12	2.21E-06
453	0.133351844	0.012190324	2.901677205	-44.0211655	6.886012951	-6.50886172	-0.96570107	-22.1398185	9	3.22E-11	5.12E-07
454	0.866668146	0.0104339	1.940570569	-44.0703415	6.140647386	-7.22017233	-1.37099634	-7.64548194	9	4.47E-12	6.29E-07
455	0.133332852	-6.1640508	-3.08828431	24.38582906	7.133332852	0.012517822	0.882366947	-44.1052369	9	1.33E-10	3.84E-06
456	0.866667148	0.012517822	3.088284313	-44.0058291	7.866667148	-6.1640508	-0.88236695	-24.5647631	9	4.84E-12	4.01E-07
457	0.866667148	6.164050804	3.088284313	24.38582906	7.866667148	-0.01251782	-0.88236695	-44.1052369	9	4.85E-10	5.39E-06
458	0.866667148	-7.37194475	-1.47648231	-4.96063443	4.866667148	0.010466776	1.845602883	-44.075457	9	6.24E-12	8.39E-07
459	0.133332852	7.371944754	1.476482306	-4.96063443	4.133332852	-0.01046678	-1.84560288	-44.075457	9	2.09E-11	9.26E-07
460	0.133332852	7.371944754	1.845602883	4.835456957	5.133332852	-0.01046678	-1.47648231	-44.0893656	9	1.88E-11	1.43E-06
461	0.133351844	-0.01219032	-2.90167721	-44.0211655	6.886012951	6.508861715	0.965701068	-22.1398185	9	4.17E-12	5.12E-07
462	0.809867885	-4.07338447	-6.0473925	37.09127353	9.132871508	0.02067834	0.491897276	-44.1114559	9	3.48E-10	1.63E-05
463	0.133332852	-6.99253582	-1.16726175	-14.7613694	3.133332852	0.011034694	2.334523506	-44.0522613	9	3.53E-12	6.47E-07
464	0.866667148	-0.01046678	-1.84560288	-44.075457	5.866667148	7.371944754	1.476482306	-4.96063443	9	5.26E-12	8.39E-07
465	0.883413304	-0.00935911	-1.6507574	-48.9943814	5.883413304	8.244427901	1.650757402	-0.05561862	10	6.54E-12	7.85E-07
466	0.883413304	7.554506912	1.080674393	-19.6597362	3.883413304	-0.01021384	-2.52157358	-48.9572822	10	1.93E-11	3.67E-06
467	0.8895951	8.211723761	1.42408851	-7.63138232	5.116586974	-0.00955078	-1.94494685	-48.9842083	10	3.61E-12	6.34E-07
468	0.116586696	-0.00935911	-1.6507574	-48.9943814	5.116586696	8.244427901	1.650757402	-0.05561862	10	8.68E-13	8.42E-07
469	0.883413304	0.009552552	2.021756662	-48.9804734	6.883413304	-8.0774741	-1.34783777	-9.85635105	10	8.94E-12	5.16E-07

470	0.116582353	-0.0094453	-1.58891961	-48.9968394	4.885377532	8.302518626	1.742990338	2.209803981	10	2.05E-11	9.23E-07
471	0.116586696	0.009552552	1.347837775	-49.003649	4.116586696	-8.0774741	-2.02175666	9.740473429	10	2.31E-11	1.26E-06
472	0.116586696	6.591323234	0.825378701	-29.4647839	2.116586696	-0.01170637	-3.3015148	-48.9108644	10	3.78E-12	3.32E-07
473	0.116586696	-0.00955255	-2.02175666	-48.9804734	6.116586696	8.077474095	1.347837775	-9.85635105	10	3.25E-11	5.89E-07
474	0.883413304	-0.00955255	-2.02175666	-48.9804734	6.883413304	8.077474095	1.347837775	-9.85635105	10	4.03E-12	5.16E-07
475	0.116605301	0.011402697	3.130808066	-48.9242491	7.904011254	-6.91580459	-0.88953977	-27.3801813	10	5.68E-11	3.51E-07
476	0.883398581	0.009917449	1.129221658	-49.0089265	4.111679474	-7.63685443	-2.36868232	17.29440759	10	3.86E-11	1.19E-06
477	0.883413304	8.077474095	1.347837775	-9.85635105	4.883413304	-0.00955255	-2.02175666	-48.9804734	10	1.44E-12	5.16E-07
478	0.883413304	0.009552552	1.347837775	-49.003649	4.883413304	-8.0774741	-2.02175666	9.740473429	10	7.18E-12	1.31E-06
479	0.883413304	0.009359108	1.650757402	-48.9943814	5.883413304	-8.2444279	-1.6507574	-0.05561862	10	3.07E-11	7.85E-07
480	0.883416142	-0.0095752	-2.10810348	-48.9760015	7.125042821	7.913464661	1.269387015	-12.2249156	10	1.36E-11	4.05E-07
481	0.883413304	-0.01170637	-0.8253787	-49.0152161	2.883413304	6.591323234	3.301514804	29.29086444	10	1.98E-10	4.93E-06
482	0.116586974	0.009550781	1.944946853	-48.9842083	5.8895951	-8.21172376	-1.42408851	-7.63138232	10	8.62E-12	6.34E-07
483	0.883398581	-0.00991745	-1.12922166	-49.0089265	4.111679474	7.636854425	2.36868232	17.29440759	10	5.48E-11	1.19E-06
484	0.883413304	7.554506912	2.521573583	19.52728222	7.883413304	-0.01021384	-1.08067439	-49.0102638	10	4.10E-11	2.28E-06
485	0.883406153	0.009391668	1.402341875	-49.0017776	5.116367484	-8.07796815	-1.91056785	7.458950484	10	2.01E-11	7.79E-07
486	0.883413304	-0.01170637	-3.3015148	-48.9108644	8.883413304	6.591323234	0.825378701	-29.4647839	10	3.81E-11	2.75E-07
487	0.116586696	0.010213836	2.521573583	-48.9572822	7.116586696	-7.55450691	-1.08067439	-19.6597362	10	1.45E-12	4.33E-07
488	0.116367484	-8.07796815	-1.91056785	7.458950484	5.883406153	0.009391668	1.402341875	-49.0017776	10	1.52E-11	7.79E-07
489	0.120455217	8.166270557	1.561102338	-2.37850442	4.883411066	-0.00929131	-1.71648912	-48.9916132	10	1.37E-12	5.48E-07
490	0.120455217	-8.16627056	-1.56110234	-2.37850442	4.883411066	0.009291314	1.716489115	-48.9916132	10	1.46E-11	5.48E-07
491	0.883413304	8.077474095	2.021756662	9.740473429	6.883413304	-0.00955255	-1.34783777	-49.003649	10	3.30E-11	1.31E-06
492	0.116582353	0.009445295	1.58891961	-48.9968394	4.885377532	-8.30251863	-1.74299034	2.209803981	10	3.31E-11	9.23E-07
493	0.883406153	-0.00939167	-1.40234188	-49.0017776	5.116367484	8.077968154	1.910567848	7.458950484	10	3.96E-11	7.79E-07
494	0.116586696	0.015630158	4.952272206	-48.7713427	9.116586696	-4.93664205	-0.55025247	-39.2709619	10	4.26E-12	2.60E-07
495	0.116586696	-0.01170637	-3.3015148	-48.9108644	8.116586696	6.591323234	0.825378701	-29.4647839	10	8.98E-12	3.32E-07
496	0.883452118	0.012163227	3.541623947	-48.8899355	9.144606573	-6.14617379	-0.74545719	-32.0256163	10	2.57E-12	2.44E-07
497	0.883411066	-0.00929131	-1.71648912	-48.9916132	6.120455217	8.166270557	1.561102338	-2.37850442	10	4.21E-11	5.48E-07
498	0.116576428	-0.00974394	-1.29389275	-49.0053977	3.881161315	8.058214476	2.143120332	12.04554594	10	5.31E-12	1.46E-06
499	0.116586696	-0.01021384	-1.08067439	-49.0102638	3.116586696	7.554506912	2.521573583	19.52728222	10	2.83E-11	1.88E-06
500	0.883413304	-7.55450691	-2.52157358	19.52728222	7.883413304	0.010213836	1.080674393	-49.0102638	10	8.33E-11	2.28E-06